

**REPORT NO. AP60-1045**

**VOLUME I**



**GROUND SUPPORT EQUIPMENT LIST**  
**SERIES E AND F**

WE ARE NOW

**GENERAL DYNAMICS | ASTRONAUTICS**



CONVAIR (ASTRONAUTICS) DIVISION  
GENERAL DYNAMICS CORPORATION



GENERAL DYNAMICS | ASTRONAUTICS

CONTRACT NO. AF O4(647)-680, -694, -453, AND -605

AN INFORMATIONAL SUMMARY OF ALL CHANGES INCORPORATED WITH THE March 1962

REVISION OF WS107A-1 OPERATIONAL GSE EQUIPMENT AP60-1045

ITEM/PAGE NUMBER	CHANGES IN	CHANGED BY
VOLUME I		
FRONT MATTER		
ii	(Date added)	Revised page
ix, xviii(a)	(Revised list of Deleted and Superseded items)	Revised pages
xx, xxi, xxii, xxiii, xxiv, xxv	(Revised list of effective items Vol I)	Revised pages
PART I		
140.1	(New item)	New page
140.2	(New item)	New page
140.3	(New item)	New page
166	(New item)	New page
166.1	(New item)	New page
166.9	(New item)	New page
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166.23	(New item)	New page

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166.24	(New item)	New page
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184.5	(New item)	New page
184.6	(New item)	New page
184.7	(New item)	New page
184.8	(New item)	New page
184.9	(New item)	New page
184.10	(New item)	New page
VOLUME II		
FRONT MATTER		
ii	(Date added)	Revised page
vii	(Revised list of effective pages Vol II)	Revised pages
PART I (cont)		
430	(Item superseded) (Note added)	Revision A
430.1	(New item)	New page

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REVISION OF WS107A-1 OPERATIONAL GSE EQUIPMENT AP60-1045

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FRONT MATTER		
ii	(Date added)	Revised page
v, vi, ix, x, xi	(Revised list of effective pages Vol III)	Revised pages
PART I (cont)		
644	(3) (4) (13) (7) (Text)	Revision A
645	(3) (4) (13) (7) (Text)	Revision A
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691	(5 Text)	Revision A
706	(New item)	New page
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5195	(New item)	New page
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5197	(New item)	New page
5198	(New item)	New page
5199	(New item)	New page
5200	(New item)	New page
5201	(New item)	New page
5202	(New item)	New page
5203	(New item)	New page
5204	(New item)	New page
5205	(New item)	New page
5206	(New item)	New page
5207	(New item)	New page
5210	(New item)	New page
5212	(New item)	New page
5213	(New item)	New page
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5240	(New item)	New page
5241	(New item)	New page
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5243	(New item)	New page
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VOLUME I

REPORT NO. AP60-1045

# MAINTENANCE GROUND EQUIPMENT LIST SERIES E AND F

THIS REPORT SUPERSEDES REPORTS:

AZM-27-229	AP60-0550
AZM-27-246	AP60-0552

5 JANUARY 1961

CONTRACT NOS.

AF04(647)-370	AF04(647)-453
AF04(647)-346	AF04(647)-605

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AP60-1045

Issued 5 January 1961  
Revised 22 February 1961  
Revised 22 March 1961  
Revised 22 April 1961  
No Revision 22 May 1961  
No Revision 22 June 1961  
No Revision 22 July 1961  
Revised 22 August 1961  
Revised 22 September 1961  
Revised 22 October 1961  
No Revision 22 November 1961  
Revised 22 December 1961  
Revised 22 January 1962  
No Revision 22 February 1962  
Revised 22 March 1962

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22 August 1961

## INTRODUCTION TO USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

This Maintenance Ground Equipment List is prepared in accordance with WDT Exhibit 57-1 dated 16 September 1957, as revised 1 December 1959, as modified by CCN 52 to Contract No. AF 04(647)-346 and CCN 13 to Contract No. AF 04(647)-605, and as implemented by CCN 51 to Contract No. AF 04(647)-370 and CCN 26 to Contract No. AF 04(647)-453.

This list includes Figure-A's for:

- 1) Maintenance Ground Equipment (MGE) recommended for Convair-Astronautics development.
- 2) Convair-Astronautics' requirements for Associate Contractors' common and standard integrated MGE.
- 3) Special and standard tool requirements.

In accordance with AMC BMC letter LBTCP dated 17 December 1959, Weapon System Equipment Component List No. 252 (SM-65) should be referred to for information concerning common hand tools.

By Air Force direction in the applicable CCN's:

- 1) Part or specification number listed in column 3 of the Figure-A is the number proposed for original provisioning and does not necessarily reflect the part number of the article actually delivered or the required configuration of that article.
- 2) Recommended quantities only are listed in column 7 of the Figure-A. Provisioned quantities are not published in this list.
- 3) Figure-A's will not be updated for any reason except change of function (new usage), deletion, or supersession.
- 4) Reference should be made to the current issue of AFBMD Exhibit 60-36 for configuration or part number changes, and for provisioning information.

Reference should be made to the latest revision of Convair-Astronautics Report No. AP60-0742 for current Federal nomenclatures and type numbers.

Entries under column 9 on the Figure-A are only area-estimated prices which cannot be considered as firm.

By CCN direction, item numbers are assigned according to the following system:

- 1) One Figure-A item identification number is assigned for all provisioning of a given item.
- 2) For items having the same basic part number, the item identification number is the same for both Figure-A (MGE) and Figure-1 (OGE) item.
- 3) Item identification numbers of all WS107-A Series E and Series F Figure-A's, when these items are common to Series D, are the same as the corresponding Series D item identification number.
- 4) Item identification numbers, of all items required for WS107A-1 Series E and/or Series F only, begin with the number 5000.

By Air Force direction, the word "Commercial" is inserted in column 13 to designate "common and standard" items previously designated as CFE.

Tactical launch equipment is listed on Figure-1 in USAF Weapon System 107A-1 Operational Ground Equipment List, Series E and F Report No. AP60-1046. Items having both a support and a launch function are listed in both Report No. AP60-1045 and AP60-1046.

Contract AF 04(647)-680 has superseded Contract No. AF 04(647)-370 for the OSTF No. 1 Program. Since revision of Figure-A entries in this MGE List is restricted specifically to additions, deletions, and changes in function, page frames in the body of this report will continue to reflect OSTF No. 1 listings under Contract No. AF 04(647)-370.

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FIGURE - A. CROSS REFERENCE LIST  
 SERIES D, E, AND F

Old Item No.	New Item No.	Old Item No.	New Item No.	Old Item No.	New Item No.	Old Item No.	New Item No.
1212	5029	1425	33	1622	46. 1	1740	5122
1300	19. 1. 1	1433	5001	1621	46	1741	5123
1302	19. 2	1434	5061	1700	130	1743	169. 2
1303	10. 1	1436	5102	1701	110	1744	169. 3
1304	5038	1437	5103	1702	124	1745	169. 4
1305	5039	1500	5062	1703	158	1746	169. 5
1306	19. 5	1502	5063	1704	157	1747	169. 1
1310	5040	1504	5064	1705	122	1748	169. 6
1312	5041	1505	62. 1. 1	1706	120	1750	5080
1313	5042	1507	5065	1707	111	1751	163. 7
1314	5043	1509	5066	1708	132	1752	150. 1
1315	5044	1510	62. 1. 5	1709	123	1753	152. 1
1316	5045	1511	42. 3	1710	119	1754	151
1317	5046	1512	5067	1711	137	1755	180
1318	5047	1513	62	1712	121	1756	180. 1
1320	5048	1515	5068	1713	125	1757	5081
1321	5049	1517	5069	1714	141	1758	5082
1322	5050	1518	33. 4	1715	143	1762	5083
1400	5051	1523	5070	1716	164	1763	174. 1
1401	5052	1528	5071	1717	164. 1	1764	5084
1402	24. 5	1532	5072	1718	164. 2	1765	5085
1403	5053	1533	5073	1719	164. 4	1766	5086
1404	11	1534	30. 2	1721	142	1767	167. 1
1405	76	1535	5028	1722	164. 3	1768	129
1407	28. 5. 4	1604	44. 6	1724	165. 3	1769	144
1408	31. 5	1605	5024	1726	118	1770	145
1406	78	1610	33. 3. 1	1729	114	1771	146
1410	5054	1612	5074	1730	115	1772	146. 2
1411	5055	1613	5075	1733	5120	1773	146. 1
1412	5056	1614	5076	1734	159	1774	5087
1415	30. 4	1615	5077	1736	163. 1	1775	5088
1417	5057	1617	38. 7. 1	1737	163	1776	5089
1422	5058	1618	38. 7. 0	1738	5121	1777	5090
1423	5059	1619	62. 1. 9	1739	163. 4	1778	5093
1424	5060	1620	5078				

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FIGURE-A. CROSS REFERENCE LIST (cont)

## SERIES D, E, AND F

Old Item No.	New Item No.	Old Item No.	New Item No.	Old Item No.	New Item No.	Old Item No.	New Item No.
1779	5093	2209	354	2246	229	2281	339
1780	5091	2210	206	2247	234	2282	340
2100	396	2211	207	2248	231	2283	382
2101	219. 1	2212	208	2249	232	2284	268. 1
2102	301. 4	2213	392	2250	235	2285	343
2103	301. 1	2214	373	2252	236	2286	344
2104	301. 2	2215	322	2253	368	2287	270
2105	301. 5	2216	371	2254	237	2289	272
2106	301. 3	2217	210. 1	2255	239	2290	274
2107	307. 1	2218	370	2256	240	2291	274. 5
2108	308	2219	390	2257	241	2292	278
2109	310	2221	213. 5	2258	242	2293	288
2110	311	2222	211	2259	243	2294	275
2111	312	2223	212	2260	256	2295	318
2112	313	2224	215	2261	381	2296	319
2113	309. 3	2227	216	2262	257	2297	320
2114	309. 4	2228	218	2263	258	2298	279
2115	309. 5	2229	219	2264	279. 1	2299	280
2116	310. 1	2230	358	2265	259	2300	281
2117	313. 1	2231	359	2266	260	2301	282
2118	313. 2	2232	360	2267	262	2302	285
2119	5104	2233	361	2268	367	2303	286
2120	5096	2234	362	2269	349	2305	287
2121	5105	2235	363	2270	383	2306	323
2122	5106	2236	364	2271	350	2307	324
2200	276	2237	380	2272	265. 7	2308	289
2201	201	2238	328	2274	378	2309	265
2202	204. 1	2240	220	2275	266	2310	391
2204	334	2241	369	2276	279	2311	292
2205	335	2242	374	2277	266. 7	2312	293
2206	355	2243	225	2278	266. 8	2313	296
2207	336	2244	226	2279	266. 8. 1	2314	298
2208	205	2245	226. 1	2280	267	2317	301

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FIGURE-A. CROSS REFERENCE LIST (cont)

## SERIES D, E, AND F

Old Item No.	New Item No.	Old Item No.	New Item No.	Old Item No.	New Item No.	Old Item No.	New Item No.
2318	345	2354	268. 5. 0	2390	398	2426	422
2319	297	2355	268. 5. 1	2391	411	2428	424
2321	331	2356	268. 5. 2	2392	412	2431	427
2322	277	2357	268. 5. 3	2393	400	2432	348. 2
2323	302	2358	268. 5. 4	2394	413	2434	430
2324	302. 1	2359	268. 5. 5	2395	5107	2436	428
2325	337	2360	268. 5. 6	2396	5108	2436. 1	428
2326	325	2361	268. 5. 7	2397	5109	2436. 2	428
2327	357	2362	268. 5. 8	2398	5110	2436. 3	428
2328	303	2363	268. 5. 9	2399	5111	2436. 4	428
2329	332	2364	268. 6. 0	2400	5112	2436. 5	428
2330	305	2365	268. 6. 1	2401	414	2436. 6	428
2331	269	2366	268. 6. 2	2402	5113	2436. 7	428
2332	376	2367	268. 6. 3	2403	5114	2436. 8	428
2334	338	2368	268. 6. 4	2404	5115	2436. 9	428. 1
2336	326	2369	268. 6. 5	2405	415	2436. 10	428. 1
2337	327	2370	268. 6. 6	2406	416	2436. 11	428. 1
2338	353	2371	365. 0	2407	417	2436. 12	428. 1
2339	346	2372	365. 1	2409	317. 2. 1	2436. 13	428. 1
2340	306. 2	2373	365. 2	2410	317. 2. 2	2436. 14	428. 1
2341	306. 3	2374	365. 3	2411	317. 3. 1	2437	317. 4. 1
2342	306. 6	2375	365. 4	2412	317. 3. 2	2438	5092
2343	307	2376	365. 5	2413	317. 1. 2	2438. 1	5092
2344	366	2377	365. 6	2414	317. 1. 3	2438. 2	5092
2345	375	2379	5037	2415	317. 1. 4	2438. 3	5092
2346	309	2382	402	2417	418	2438. 4	5092
2347	314	2383	403	2418	418. 1	2438. 5	5092
2348	315	2384	406	2420	333	2438. 6	5092
2349	316	2385	407	2421	340. 1	2438. 7	5092
2350	317	2386	408	2422	351. 1	2438. 8	5092
2351	317. 1. 1	2387	409	2423	419	2439	431
2352	317. 2	2388	397	2424	420	2440	399. 1
2353	395	2389	410	2425	421	2441	5094

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FIGURE-A. CROSS REFERENCE LIST (cont)

## SERIES D, E, AND F

Old Item No.	New Item No.	Old Item No.	New Item No.	Old Item No.	New Item No.	Old Item No.	New Item No.
2442	5094	2735	611	2777	532. 1	2813	598
2443	5094	2736	610	2778	643	2814	595
2444	432	2738	644	2779	618	2815	600
2700	547	2739	645	2780	583	2820	670
2701	502	2741	522	2781	582	2821	5116
2702	503	2742	513	2782	550	2822	672
2703	556	2743	514	2783	585	2824	659
2704	603. 1	2744	515	2785	535	2825	599. 3
2705	633	2745	516	2786	536	2826	614. 1
2707	665	2746	517	2787	511. 1	2827	5117
2708	660	2747	629	2788	537	2828	673
2709	505	2748	501. 1	2790	552	2831	676
2710	506	2749	646	2791	5097	2832	677
2711	608	2752	574	2792	551	2836	681
2713	560	2753	575	2793	661	2837	682
2714	507	2755	613	2794	620	2839	684
2715	561	2757	615	2795	621	2840	685
2717	563	2758	616. 1	2796	622	2841	686
2718	609	2759	594	2797	664	2842	687
2719	508	2760	520	2798	623	2844	553. 2
2720	637	2761	635	2799	624		
2721	602	2762	538	2800	657		
2723	509	2763	666	2801	625		
2724	564	2765	577	2802	539		
2725	565	2766	524	2803	540		
2726	548	2767	526	2804	542		
2727	546	2768	525	2806	541		
2728	510	2769	527	2807	544. 1		
2729	658	2770	528	2808	641. 1		
2730	649	2772	663	2809	597		
2731	648	2773	581	2810	519. 1		
2732	569	2774	530	2811	599. 1		
2734	549	2775	531	2812	599. 2		

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## LIST OF DELETED AND SUPERSEDED ITEMS

<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPERSESION</u>
114	A-Apr '61	Pac Aero Engrg Co Santa Monica, California TE15719	Adapter, Thermometer, Immersion	(D) Operation of power driven trailer mounted reciprocating vacuum pump (Item 31.5) does not require use of this adapter.
165.11	Preliminary	27-81139-1	Tool Assy, Adjusting, Missile Boiloff Valve	(D) This item was disapproved at Interim Provisioning Conference on 19 December 1961.
182.3	None	H. W. Loud Machine Works Inc Pomona, California 1100L000TF	Test Fixture	(D) This item was disapproved by the Interim Provisioning Conference held at GD/A on 22 September 1961.
430	A-Mar '62	6640-527-5235	Plate, Desiccator	(S) This item is superseded by item 430.1
599.1	A-Feb '61	Non-Linear Systems Del Mar, California Model 125C	Power Supply	(S) This item is superseded by item 599.4
599.2	A-Feb '61	Non-Linear Systems Del Mar, California Model V-35	Voltmeter, Digital, ME-195/GSM	(S) This item is superseded by item 599.4
599.3	A-Feb '61	Non-Linear Systems Del Mar, California 15053	Case, Meter	(S) This item is superseded by item 599.4
641.1	A-Apr '61	6625-620-7476 John Fluke Model 801	Voltmeter, DC (Zero-500V)	(S) This item is superseded by item 641.2

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## LIST OF DELETED AND SUPERSEDED ITEMS (cont)

ITEM SEQUENCE	LAST PUBLISHED REVISION	PART OR SPECIFICATION NUMBER	NOMENCLATURE	REASON FOR (D) DELETION AND (S) SUPERSESSION
1301	C-Jul '60	27-91066-1	Hoist, AIG System Handling	(S) This item is superseded by items 5041 and 5042 per Field Test Memo 41. 4. 1.
1307	C-Sept '60	904303 North American Aviation Mod G-4004	Sling, Vernier Rocket Engine Lifting	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1308	C-Sept '60	North American Aviation 106051	Trailer, Transportation	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1309	C-Sep '60	North American Aviation G4025	Support, Rotating-Hoisting, Rocket Engine	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1311	None	27-09473-1	Crane, Missile Handling	(S) This item was superseded by item 5049 prior to publication.
1319	New-Sep '60	27-95556-1	Kit, Missile Erection	(S) This item is superseded by item 5049.
1409	A-Jan '60	CV-A 86-21900-015 Christie Electric Corp. 100136-MH 32-300 KP4	Power Supply	(S) This item is superseded by item 5028.
1413	New-Jan '60	27-91032-1	Strut, Emergency, AIG Pod Support	(D) The requirement for this item is incorporated as a part of the missile handling trailer.
1414	New-Apr '60	27-68923-1	Control Box, Local Purge System	(D) The functions of this item are included in GOE item 5098.
1416	D-May '60	27-90038-1	Vehicle, Missile Maintenance	(S) This item is superseded by item 5096.
1419	C-Sep '60	North American Aviation G3080	Plates and Plugs Kit, Rocket Engine Maintenance (Booster)	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1420	C-Sept '60	North American Aviation G3087	Plates and Plugs Kit, Rocket Engine Maintenance (Sustainer and Vernier)	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.

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LIST OF DELETED AND SUPERSEDED ITEMS (cont)

<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPERSESSION</u>
1421	B-Jul '60	North American Aviation 9011565	Pad, Thrust Chamber Interior	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1426	New-Jun '60	North American Aviation GS-2000 MD-2X4	Servicing Unit, Lubricating, Purging, Rocket Engine	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1427	New-Jun '60	North American Aviation G3067	Pumping Unit, Hydraulic	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1428	A-Jul '60	North American Aviation G4007	Support, Rocket Engine (Sustainer)	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1429	B-Sep '60	North American Aviation 9010364	Adapter Set, Service Unit, Rocket Engine	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1430	B-Sep '60	North American Aviation 693B	Brush Assembly, Gas Generator Igniter Box	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1431	A-Jul '60	North American Aviation 105986	Adapter Sustainer and Vernier Engines	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1432	None	27-99098-1	System Assembly, Silo Mouth Work Platform	(D) Item is no longer required.
1501	New-Sep '60	27-51965 (# ) Spec. 27-05068-1 EID 27-5119	Cable Kit, Instl, Missile Assy Building	(D) This item is deleted as an end item of GSE per AF direction at Provisioning Conference 24 October through 4 November 1960. This item is now a part of "Installation and Checkout" task.
1503	B-Mar '60	Spec. 27-08090-1	Test Set, Pneumatic Static, Mobile	(D) Functions of this item are performed by item 5064.
1506	A-Nov '59	27-52050-5	Test Coupler, Antenna, Telemeter and Range Safety Command	(S) This item is superseded by item 5068.

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## LIST OF DELETED AND SUPERSEDED ITEMS (cont)

<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPERSESSION</u>
1508	A-Feb '60	Spec. 27-06213-1	Junction Box, Checkout, Launcher	(S) This item is included as part of GOE item 5033.
1514	A-Dec '60	27-51965-807	Cable Kit Installation, SMA	(S) This item is superseded by item 1501.
1516	None	27-08256-1	Tester, Functional, Air Transport Pressure Unit	(D) Functions of this item are performed by item 5064.
1519	New-Sep '60	ARMA 2-00028-806	Constants Board Assy, Computer Test	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1520	New-Sep '60	ARMA 2-00036-621	Prism, Azimuth Reference	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1521	New-Sep '60	ARMA 2-00036-849	Constants Board Assy, Countdown Group Test	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1522	New-Oct '60	DIT-MCO INC. Model 2000 81-30008	Test Set, Electrical Circuit	(D) This item is no longer required.
1524	New-Sep '60	ARMA 2-00041-893	Test Set, Operational Signal Converter	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1525	B-Jul '60	North American Aviation Model G-3004 MD-2	Tester, Pneumatic Flow	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1526	New-Sep '60	ARMA 2-00036-325	Alignment Group, Sensing Platform (Mobile)	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1527	New-Sep '60	ARMA 2-00026-799	Test Set, Alignment-Countdown Set	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1529	New-Sep '60	27-68751-5	Cable Kit, Launcher Platform Launch Control, Series E Silo	(D) This item is deleted as an end item of GSE per AF direction at Provisioning Conference 24 October through 4 November 1960. This item is now a part of "Installation and Checkout" task.

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## LIST OF DELETED AND SUPERSEDED ITEMS (cont)

<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPERSESSION</u>
1530	A-Oct '60	27-08419-1	Hose Assy, Pod Air Conditioner Chilled Water, Silo Checkout	(D) The function of this item is incorporated as a part of launcher platform (Item 5010) and crib to L/P cable loop.
1531	New-Jun '60	27-51001-3	Test Set, Cable and Impedance	(D) System to be tested has a self-check capability.
1536	New-Sep '60	ARMA 2-00026-800	Countdown Group	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1600	A-Dec '59	27-38001-1	Servo Canister Component Checkout Unit	(S) This item is superseded by item 5075.
1601	A-Jan '60	27-38002-1	Gyro Canister Component Checkout Unit	(S) This item is superseded by item 5076.
1602	A-Jan '60	27-38008-1	Multi-Mode Gyro Turntable Auxiliary Unit	(S) This item is superseded by item 5076.
1603	A-Dec '60	27-38005-1	Amplifier/Network Component Checkout Unit	(S) This item is superseded by item 5075.
1606	A-Jan '60	27-38010-1	Power Supply, Auxiliary	(D) This item is deleted per TWX AFBMD-LBTCS-10-107-E which cancelled the requirement for component checkout equipment.
1607	New-Sep '59	27-39008-1	Distribution Unit, Cable, Component Checkout	(D) The functions of this item have been incorporated with the functions of other end items.
1608	New-Sep '59	27-39005-1	Cable Kit, Component Checkout, Installation	(D) This item is a part of the installation and checkout task.
1609	A-Jan '60	27-39000-1	Component Automatic Programmed Checkout Equipment (CAPChE) Core	(D) This item is deleted per TWX AFBMD-LBTCS-10-107-E which cancelled the requirement for component checkout equipment.
1611	New-Jan '60	27-38400-1	Distribution Unit, Cable, Component Checkout	(D) This item is deleted per TWX AFBMD-LBTCS-10-107-E which cancelled the requirement for component checkout equipment.
1616	B-Jul '60	North American Aviation G3077MD1	Stand, Test, Electrical-Pneumatic System	(D) Incorporation of Associate Contractor end items as a part of CV-A GSE list has been discontinued per AF letter LBWAPG/Mr. Simon/3061 dated 29 November 1960.
1720	B-Dec '59	Moog Valve Co. East Aurora, N. Y.	Kit, Electro-Hydraulic Servo Valve Overhaul	(D) The item which this item supports has been placed in the vendor repair category.
1723			(Deleted prior to official action)	
1725	A-Nov '60	DIT-MCO INC 99-80063	Test Kit, Electrical Circuit Test Set and Relay Component Checkout Unit, Self Checking	(D) The item which this item supported is not required for Series E and F sites.

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## LIST OF DELETED AND SUPERSEDED ITEMS (cont)

<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPERSESSION</u>
1727			(Deleted prior to official action)	
1728			(Deleted prior to official action)	
1731	None	27-49314-1	Gage Assy, Alignment, Launcher	(D) This is an installation item for installation and checkout only.
1732	None	BF-0044	Fixture, Leak Test, Manifold Type Valve	(D) This item was deleted for the depot at Technical Figure-A Conference on 13 November 1959.
1735			(Deleted prior to official action)	
1742			(Deleted prior to official action)	
1749			(Deleted prior to official action)	
1759			(Deleted prior to official action)	
1760			(Deleted prior to official action)	
1761			(Deleted prior to official action)	
2203	A-Oct '60	Pines Engineering Co Inc Model 2A	Bending Machine, Pipe and Conduit, (3-Inch diameter cap.)	(D) This item is deleted per TWX LBWAR-1-8-35-E.
2220	D-Nov '60	7110-273-8793	Chair, Rotary	(D) This item is consolidated with item 390.
2225	D-Jun '60	8415-273-9640	Coat, Safety, Heat Protective, Medium Size	(D) This item is consolidated with item 215.
2226	E-Jul '60	8415-273-9641	Coat, Safety, Heat Protective, Large Size	(D) This item is consolidated with item 215.
2239	A-Oct '60	4940-294-5936 Circo Equipment Co OP-2-85	Degreaser, Vapor Spray	(S) This item is superseded by item 348.2.
2251	B-Jan '60	4910-141-8702	Filler and Bleeder, Hydraulic System (Zero to 60 PSI)	(D) This item is replaced by MA-1 type filler and bleeder at 576-A only. ECP action deleted requirement for shock absorber at 576-B and on.
2273	A-Sep '60	4520-509-0741 Spec 27-08138-1 Herman-Nelson PT250-4 Per CV-A	Heater, Gasoline, Electric, Motor Driven, MD-1	(D) This item is not applicable to Series E bases.

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## LIST OF DELETED AND SUPERSEDED ITEMS (cont)

<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPERSESION</u>
2288	C-Jun '60	3416-222-0860	Lathe, Jeweler's Bench	(D) The shop in which this item was to be used is not available at E and F sites.
2304	F-Jul '60	Gray Co., Inc. Model 226-040	Pump, Pneumatic, Liquid	(S) This item is superseded by item 5107.
2315	C-Jun '60	3220-204-2264	Saw, Circular, Table Type, Floor Mounted	(D) This item is deleted by AMC BMC TWX LBTCR-7-35-E of 9 July 1960.
2316	C-Jun '60	5130-540-0131	Saw, Circular, Portable, Electric (8-Inch)	(D) This item is deleted by AMC BMC TWX LBTCR-7-35-E of 9 July 1960.
2320	A-Oct '60	5120-596-0904	Sealing Iron, Electric, Clamp Type, Hand Operated	(S) This item is superseded by item 351. 1.
2333	D-Jun '60	7110-275-5879	Stool, Straight	(D) This item is consolidated with item 376.
2335	C-Jun '60	4940-567-9548	Table, Work, Jeweler's	(D) The shop in which this item was to be used is not available at Series E and F sites
2378			(Deleted prior to official action)	
2380	A-Oct '60	3432-092-8029 H. I. Thompson Fiber Glass Co. 45-21144-110	Kit, Welding, Insulation Blanket (AC 110-Volt, 60 CPS, Single Phase)	(S) This item is superseded by item 399. 1.
2381	B-Jul '60	7125-331-8403	Rack, Steel, Storage	(D) Item 32 which this item supported has been deleted.
2416	A-Oct '60	Western Insulated Wire Co. Los Angeles Calif, Distributor: Graybar Electric Co. San Diego, Calif. T-30262	Cable, Power, Welder, 25 Feet	(S) This item is superseded by item 317. 4. 1.
2419	A-Oct '60	6625-649-3292	Test Set, Armature	(S) This item is superseded by item 677.
2427	New-Oct '60	The Matheson Co. Inc. E. Rutherford, N. J. 621PX-604	Flowmeter, Panel Mount, W/Calibration Curves for Water, Air, Helium, Nitrogen, Gaseous Oxygen	(D) This item was disapproved by AMC BMC TWX LBVAR-10-79-E dated 26 October 1960.

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## LIST OF DELETED AND SUPERSEDED ITEMS (cont)

<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPERSESION</u>
2429	New-Oct '60	Hofman Laboratories Model A-5	Flask, Cryogenic Sampling	(D) This item was disapproved by AMC BMC TWX LBVAR-10-79-E dated 26 October 1960.
2430	New-Oct '60	Braun Corp. 213 No. First Ave. Phoenix, Arizona 32327X-S6153-S6155	Cylinder and Valve Assy, High Pressure Gas Sampling	(D) This item was disapproved by AMC BMC TWX LBVAR-10-79-E dated 26 October 1960.
2433	New-Aug '60	Culligan Water Cond. Inc. 2641 Kettner Blvd. San Diego, Calif. 2609-12-14-26	Deionizer, Water, Tri-Bed	(D) This item is now a facility installation.
2435			(Deleted prior to official action)	
2436 thru 2436. 14	New-Oct '60	Air Industries of Calif.	Tools, Hand, Torq-Set	(D) These items are reidentified as items 428 and 428.1 per AF direction at 24 October to 4 November 1960 Provisioning Conference.
2438 thru 2438. 8	New-Oct '60	The Deutsch Co. Banning, Calif.	Tools, Hand, Miniature Connector, Crimping-Insertion-Removal	(D) These items are reidentified as item 509-2 per AF direction at 24 October to 4 November 1960 Provisioning Conference.
2441			(Superseded by item 5094)	
2442			(Superseded by item 5094)	
2443			(Superseded by item 5094)	
2706	A-Sep '59	6625-334-7396 Esterline-Angus Type AW	Ammeter, Recording (Zero-5 MA)	(D) There is no longer a requirement for this item.
2712	D-May '60	6625-649-5059	Resistor, Decade (0.1 OHM to 111,111 OHM)	(D) The requirement of this item is satisfied by item 582.
2716	B-Oct '59	6625-223-4811 General Radio 667A	Bridge, Inductance	(S) This item is superseded by item 670.

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## LIST OF DELETED AND SUPERSEDED ITEMS (cont)

<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPERSESION</u>
2733	C-Apr '60	MBAC NL75200 New London Instrument Co. Model 257A	Deviation Meter (20 to 1000 MC)	(D) The requirement for this item no longer exists.
2737	C-May '60	6685-515-6172 J. P. Marsh Co. Type 101 FM	Gage, Pressure (Zero to 50 PSI)	(D) This item is not required for Series E.
2740	D-May '60	6625-618-1350 Leeds and Northrup 2430C Type E	Galvanometer	(D) This item is not required for Series E.
2750	C-Mar '60	MBAC-NL Ruska Instrument Corp. Model 2406C	Indicator, Pressure Differential (Zero to 12,000 PSI)	(S) This item is superseded by item 661.
2751	C-Mar '60	6625-669-0747 Dubrow Development Co. Model 336	Instrument Calibration Standard	(S) This item is superseded by item 553.2.
2754	D-May '60	MBAC FA-129 Wallace and Tiernan Model FA-129	Manometer, Dial (Zero to 15 PSI)	(D) Requirement for this item no longer exists.
2756	D-Jun '60	6685-594-4803 Meriam Instrument Co, A338A	Manometer, Mercurial (Zero to 61 Inch)	(S) This item is superseded by item 614.1.
2771	E-Jun '60	MBAC NL 75057 Mercury Electronic Co. Red Bank, N.J. Model 308-B	Power Supply, DC (Zero to 600 Volts, 200MA)	(S) This item is superseded by item 676.
2776	C-May '60	6625-593-5359 Tectronix 53/54K	Preamplifier, Plug-In, DC, Fast-Rise	(D) The function of this item is accomplished by item 2777.

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## LIST OF DELETED AND SUPERSEDED ITEMS (cont)

<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPPRESSION</u>
2784	None	6625-520-6630 General Radio 631BL	Stroboscope	(D) AF advised this item is not required.
2789	C-May '60	6625-539-8584 Hewlett-Packard 650A	Test Set, Oscillator, (10 CPS to 10MC)	(D) This item is not required for Series E and F.
2805	D-Jun '60	5950-232-5204 Weston 327-4	Transformer, Circuit	(D) This item is no longer required.
2816	B-Dec '59	6625-649-3805	Ammeter, DC, (Zero to 30 MA)	(D) This item is not required for Series E missiles.
2817	D-May '60	MBAC PRD 306A PRD 306A	Tuner, Coaxial, Double Stub (2.0 to 10.0 KMC)	(D) This item is not required for Series E.
2818	C-Jul '60	6685-526-9422 Ashcroft 1305B	Tester, Pressure Gage, Bench Mounted, Portable (Zero to 200, Zero to 1,000 PSI)	(S) This item is superseded by item 5117.
2819	A-Oct '60	Weston Instrument Co. Newark 12, N.J. Model 61, Type 3	Calibrator, Instrument, Standard	(S) This item is superseded by item 553. 2.
2823	None	MBAC MST 500	Timer, Millisecond	(D) This item is no longer required by Rocketdyne as an integrated item.
2829	A-Oct '60	Futurecraft Corp 90264-67-74 Spec 27-08592 EID 27-4018	Gage Set, Pressure Indicating, Calibration Adjustable Dial Tabs, Portable (Zero to 100 and Zero to 1000 PSI)	(S) This item is now a part of item 673 and 673. 1
2830	A-Oct '60	Futurecraft Corp. 90264-77-79 Spec 27-08592 EID 27-4018	Gage Set, Pressure Indicating, Calibration, Adjustable Dial Tabs, Portable (Zero to 3000 and Zero to 8000 PSI)	(S) This item is now a part of item 673 and 673. 1

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<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>	<u>REASON FOR (D) DELETION AND (S) SUPERSESSION</u>
2833	New-Oct '60	Beckman Instrument Div 2500 Fullerton Rd Fullerton, California Model IR-5	Spectrophotometer, Infrared	(D) Disapproved by AMC BMC TWX LBJVAR-10-79-E dated 26 October 1960.
2834	New-Oct '60	Beckman Instrument Div 2500 Fullerton Rd Fullerton, Calif. 28720	Cell, Liquid, Spectrophotometric, Sealed, W/0.5 and 1.0 MM Spacers	(D) Disapproved by AMC BMC TWX LBJVAR-10-79-E dated 26 October 1960.
2835	New-Oct '60	Beckman Instrument Div 28965	Cell, Gas, Spectrophotometric Multi-Path	(D) Disapproved by AMC BMC TWX LBJVAR-10-79-E dated 26 October 1960.
2838	New-Oct '60	Central Scientific Co 6446 Telegraph Rd Los Angeles 22, Calif. 26800	Moisture Determinator, Portable	(D) Disapproved by AMC BMC TWX LBJVAR-10-79-E dated 26 October 1960.
2843	New-Oct '60	Consolidated Electrodynamics Corp 300 N. Sierra Madre Villa Pasadena, Calif. 26-350-6000	Monitor, High-Pressure, Moisture	(D) Disapproved by AMC BMC TWX LBJVAR-10-79-E dated 26 October 1960.
5074	New-Jan '61	7-86013-1	Equipment Validation System	(D) This item is replaced by individual units of AFS and/or common and standard equipment.
5104	A-Jan '62	2320-540-3490	Truck, Maintenance	(S) This item is superseded by Item 5211.
5116	A-Mar '61	6865-551-4375 Leeds & Northrup Philadelphia, Pa. 8658AA	Pyrometer, Indicating (Zero to 400 Deg F)	(S) This item is superseded by Item 692.

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<u>ITEM SEQUENCE</u>	<u>LAST PUBLISHED REVISION</u>	<u>PART OR SPECIFICATION NUMBER</u>	<u>NOMENCLATURE</u>		<u>REASON FOR (D) DELETION AND (S) SUPERSESSION</u>
5156	Preliminary	27-51029-1 EID 27-3978	Gyro Warmup Test Set	(D)	No depot requirement for this item.
5159	Preliminary	27-51254-1 EID 27-3985	Programmer Sub-Assembly Test Set	(D)	No depot requirement for this item. Air Force depot will use the Manual Test Set (Item 5158).
5161	Preliminary	27-40148-1	Checkout Unit, Propellant Utilization System, Matching	(D)	No depot requirement for this item. Air Force depot will use Series D operational item 39.8.0 documented in Report No. ZM-7-357.
5162	Preliminary	27-53890-1 EID 27-3981	Airborne Canister Purge and Pressure Test Set	(D)	No depot requirement for this item. Air Force depot will use Series D operational item 33.3.
5166	Preliminary	27-50867-1 EID 27-3984	Liquid Oxygen Control Unit	(D)	No depot requirement for this item.
5174	Preliminary	Stratos Div. Fairchild Engine & Airplane Corp., Western Branch 60-053 TSTO-1	Cap Assembly	(D)	Item 5078 performs the function of this item.
5177	Preliminary	Hallamore 107843 Model HE-0514	Universal Chassis Analyzer	(D)	No depot requirement for this item.
5178	Preliminary	Hallamore 110990	Accessory Kit, Universal Chassis Analyzer	(D)	No depot requirement for this item.
5180	Preliminary	27-19008-1 Spec 27-01495 EID 27-6271	Television System, Closed Circuit	(S)	This item is superseded by item 5179.
5233	Preliminary	Erie-Pacific Div. Erie Resistor Corp. Model 723A	Counter, Time Interval	(D)	Items 315, 511.1, 520 and 581 perform the functions of this item.

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## LIST OF EFFECTIVE ITEMS

## VOLUME I

Item Sequence	Old Item Sequence	Date and/or Revision	Nomenclature	Fig. A Page Nos.	Item Sequence	Old Item Sequence	Date and/or Revision	Nomenclature	Fig. A Page Nos.
10.1	1303	New-Jan '61	Aligning Equipment, Missile-to Launcher	1, -2	42.3	1511	New-Jan '61	Test Accessory, IRSS Arm Switch	1, -2
11	1404	New-Jan '61	Stand Instl, Work, SMA	1	44.6	1604	New-Jan '61	Electro-Mechanical/Relay Check- out Unit	1, -2
19.1.1	1300	New-Jan '61	Trailer, Handling, Missile	1, -2, -3	46	1612	New-Jan '61	Test, Set Module Board	1, -2
19.2	1302	New-Jan '61	Tie-Down and Support, Trailer Engine Gimbaling	1	46.1	1622	New-Jan '61	Adapter Kit, Module Test	1
19.5	1306	New-Jan '61	Adapter, Weighing Kit	1, -2	62	1513	New-Jan '61	Telemetry Checkout, Mobile IRSS	1, -2
24.5	1402	New-Jan '61	Compressor, Helium	1, -2	62.1.1	1505	New-Jan '61	Test Unit, Destructor Substitution, Missile Systems Checkout, IRSS	1, -2
28.5.4	1407	New-Jan '61	Recharger, Oxygen/Nitrogen	1, -2	62.1.5	1510	New-Jan '61	IRSS Battery Squib Substitution Box	1, -2
30.2	1534	New-Jan '61	Pumping Unit, Hydraulic	1, -2	62.1.9	1619	New-Jan '61	Destruct Package Checkout Kit	1
30.4	1415	New-Jan '61	Coupling Half and Hose Assy, Hydraulic	1, -2	76	1405	New-Jan '61	Power Supply, Rectifier, Missile, Testing, (Battery Charger)	1
31.5	1408	A-Feb '61	Pump, Vacuum, Maintenance	1, -2	78	1406	New-Jan '61	Dummy Load, Electrical	1
31.6	None	New-Feb '61	Adapter Assembly, Vacuum Pump to Liquid Nitrogen Recharger	1	110	1701	New-Jan '61	Cover Plate	1
33	1425	New-Jan '61	Tool Set, Motion and Alignment	1, -2, -3	111	1707	New-Jan '61	Wrench, Spanner	1
33.3.1	1610	New-Jan '61	Purging Unit, Canister, Mobile	1, -2	114	1729	A-Apr '61 (Del)	Adapter, Thermometer, Immersion	1
33.4	1518	New-Jan '61	Pressurizing Unit, Portable	1, -2	115	1730	A-Feb '61	Thermometer, Immersion (-40°F to +160°F)	1
38.7.0	1618	New-Jan '61	Inverter Air Cooler	1	118	1726	New-Jan '61	Kit, Pressure Regulator Test	1, -2
38.7.1	1617	New-Jan '61	Power Supply Analyzer and Missile Inverter Test Set	1, -2	119	1710	New-Jan '61	Jig Assembly	1
39.8.0	None	New-Dec '61	Checkout Unit, Propellant Utilization System, Matching	1, -2	120	1706	New-Jan '61	Jig Assembly	1
39.10	None	New-Apr '61	Sensor Simulator Unit, Propellant Loading Level	1, -2	121	1712	New-Jan '61	Wrench, Spanner	1
42.1.1	None	New-Dec '61	Test Fixture, Missile Ordnance	1	122	1705	New-Jan '61	Guide, Piston	1
					123	1709	New-Jan '61	Guide, Piston	1
					124	1702	New-Jan '61	Fixture, Hydraulic Coupling Holding and Leak Test	1, -2

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## LIST OF EFFECTIVE ITEM (cont)

## VOLUME I

<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>	<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>
125	1713	New-Jan '61	Fixture, Vernier Actuating, Cylinder Test	1	146	1771	New-Jan '61	Wrench, Spanner, Fixed Hook Type	1
					146.1	1773	New-Jan '61	Wrench, Spanner	1
129	1768	A-Feb '61	Adapter Assy, Element Cleaning, Air Hose	1	146.2	1772	New-Jan '61	Wrench, Spanner	1
130	1700	New-Jan '61	Bracket, Mounting, Retro-Rocket Test	1	150.1	1752	New-Jan '61	Wrench, Socket, Serrated, Fuel Fill and Drain Valve	1
132	1708	New-Jan '61	Orifice, Fuel Tank Purge	1	151	1754	New-Jan '61	Adapter Cap, Valve Test	1
137	1711	New-Jan '61	Wrench, Spanner, Face, Key Type	1	152.1	1753	New-Jan '61	Wrench, Spanner, End Face, Fuel Fill and Drain Valve	1
140.1	None	New-Mar '62	Fixture, Test Actuator	1	157	1704	New-Jan '61	Flange Set, Blind, Fuel Tank Manual Pressurization Shut-Off Valve, Test	1
140.2	None	New-Mar '62	Tool, Adjusting	1					
140.3	None	New-Mar '62	Wrench, Spanner	1	158	1703	New-Jan '61	Flange Set, Blind, Liquid Oxygen Tank, Manual Pressurization Shut-Off Valve, Test	1, -2
141	1714	New-Jan '61	Loading Thimble, Valve Poppet Protector	1	159	1734	New-Jan '61	Fixture, Test, Liquid Oxygen High Rate Fill and Drain Valve Assy	1
142	1721	New-Jan '61	Wrench, Spanner, Face, Pin Type	1	163	1737	New-Jan '61	Wrench, Spanner, Pin Type, Pneumatic Disconnect	1
143	1715	New-Jan '61	Control Box, Helium Shut-Off Valve, Test	1	163.1	1736	A-Dec '61	Puller, Pneumatic Disconnect Coupler Seal	1, -2
					163.4	1739	A-Dec '61	Wrench, Socket, Face Spanner, Two Prong, Pneumatic Disconnect Coupling	1
144	1769	New-Jan '61	Wrench, Spanner, Face, Key Type	1					
145	1770	New-Jan '61	Wrench, Spanner, Face Type	1	163.7	1751	New-Jan '61	Puller Assy, Pneumatic Disconnect Coupling Seal	1

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<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>	<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>
163.16	None	New-Dec '61	Wrench, Special Socket 3/8-Inch Square Drive	1	166.11	None	New-Mar '62	Holding Tool, Servomechanism	1
163.17	None	New-Dec '61	Fixture, Piston Shaft Leak Test	1	166.12	None	New-Mar '62	Fixture, Assembly, Servomechanism	1
163.18	None	New-Dec '61	Chamber, Leakage Pressure Test	1	166.13	None	New-Mar '62	Servodriver, Special Filter Plug, Servomechanism	1
164	1716	New-Jan '61	Extractor, Sleeve, Servo Valve	1	166.14	None	New-Mar '62	Alignment Tool, Servomechanism	1
164.1	1717	New-Jan '61	Extractor Assy, Spacer Sleeve, Servo Valve	1	166.15	None	New-Mar '62	Gage Block Set, Servomechanism	1
164.2	1718	New-Jan '61	Extractor, Orifice Assy, Servo Valve	1	166.16	None	New-Mar '62	Fixture, Assy & Test, Servomechanism	1
164.3	1722	New-Jan '61	Wrench, Spanner, Face, Pin Type	1	166.17	None	New-Mar '62	Adapter Plate, Test, Servomechanism	1
164.4	1719	New-Jan '61	Cap, Pressure Test, Servo Valve	1	166.22	None	New-Mar '62	Adapter Plate, Test Servomechanism	1
165.3	1724	New-Jan '61	Tool, Handling, Missile Tank Fuel Sensing Probe	1	166.23	None	New-Mar '62	Installing Tool, O-Ring, Servomechanism	1
166	None	New-Mar '62	Test Set, Servomechanism	1, -2	166.24	None	New-Mar '62	Gage, Air Gap, Servomechanism	1
166.1	None	New-Mar '62	Test Stand, Staticflow, Servomechanism	1	166.25	None	New-Mar '62	Driver Plug, Bushing, Servomechanism	1
166.9	None	New-Mar '62	Gage, Alignment, Servomechanism	1	166.26	None	New-Mar '62	Set, Installing Tool, Servomechanism	1
166.10	None	New-Mar '62	Gage Set, Servomechanism	1	166.27	None	New-Mar '62	Alignment Tool, Servomechanism	1
					166.29	None	New-Mar '62	Gage, Fixed End Cap Components	1
					167.1	1767	New-Jan '61	Fixture Assy, Nitrogen Purge Solenoid Valve, Leak Test	1

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LIST OF EFFECTIVE ITEMS (cont)

VOLUME I

<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>	<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>
169.1	1747	New-Jan '61	Fixture, Test, Nitrogen Control Unit (Zero to 15 PSI)	1	182	None	A-Dec '61	Wrench Spanner, Key Type	1
					182.1	None	A-Dec '61	Wrench Spanner, Key Type	1
169.2	1743	New-Jan '61	Fixture, Test, Nitrogen Control Unit (Zero to 150 PSI)	1	182.2	None	New-Jan '62	Wrench, Spanner	1
169.3	1744	New-Jan '61	Fixture, Test, Nitrogen Control Unit	1	184	None	New-Mar '62	Test Console, Insulation Resistance	1
					184.1	None	New-Mar '62	Patch Panel, Insulation Resistance	1
169.4	1745	New-Jan'61	Fixture, Test, Nitrogen Control Unit	1	184.2	None	New-Mar '62	Adapter Cable, Insulation Resistance	1
169.5	1746	New-Jan'61	Fixture, Test, Nitrogen Control Unit	1	184.3	None	New-Mar '62	Test Panel, Resistance	1
					184.4	None	New-Mar '62	Adapter Panel, Resistance and Continuity	1
169.6	1748	New-Jan'61	Fixture, Test, Nitrogen Control Unit	1	184.5	None	New-Mar '62	Adapter Cable, Resistance and Continuity	1
171	None	New-Dec'61	Wrench, Spanner, End Face, Two Pin Type	1	184.6	None	New-Mar '62	Test Set, Integrating Gyroscope	1
					184.7	None	New-Mar '62	Table, Test, Floated Rate Integrating Gyro (FRIG)	1
171.1	None	New-Dec'61	Wrench, Spanner	1	184.8	None	New-Mar '62	Fixture, Holding, Floated Rate-Gyro	1
174.1	1763	New-Jan'61	Wrench, Spanner, Key Type	1	184.9	None	New-Mar '62	Test Set, Stiction	1
175.1	None	New-Dec'61	Extension, Printed Circuit Board	1	184.10	None	New-Mar '62	Stand, Assembly, Final	1
177	None	A-Dec '61	Wrench, Spanner, End Face Type, Tubular, Slotted	1	201	2201	New-Jan '61	Apron Machinist's, Bib Type	1
177.1	None	A-Dec '61	Wrench, Socket, Thin Wall, Special	1	204.1	2202	New-Jan '61	Bending Machine, Pipe and Conduit	1 thru 6
180	1735	New-Jan '61	Fixture Assy, Guide and Alignment	1					
180.1	1756	New-Jan '61	Fixture Assy, Guide and Alignment	1					

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## LIST OF EFFECTIVE ITEMS (cont)

## VOLUME I

<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>	<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>
205	2208	New-Jan '61	Blanket, Fire	1	220	2240	New-Jan '61	Demagnetizer	1
206	2210	New-Jan '61	Boot, Knee, Man's	1	225	2243	New-Jan '61	Drill, Electric, Portable, 1/2 Inch	1
207	2211	New-Jan '61	Brake Machine, Sheet Metal, Hand Operated	1	226	2244	New-Jan '61	Drill, Electric, Portable, 1/4 Inch	1
208	2212	New-Jan '61	Buffing and Polishing Machine, Bench Type	1	226.1	2245	New-Jan '61	Drill, Electric, Portable, Heavy Duty, 1/4 Inch	1
210.1	2217	New-Jan '61	Cabinet, Storage, Two Door	1	229	2246	New-Jan '61	Drill, Pneumatic, Portable 1/4 Inch	1
211	2222	New-Jan '61	Cleaner, Vacuum, Vertical Tank Type	1	231	2248	New-Jan '61	Drilling Machine, Upright, Bench Mounted, 1/2 Inch	1
212	2223	New-Jan '61	Cleaner, Vacuum, Vertical Tank Type	1	232	2249	New-Jan '61	Drilling Machine, Upright, Floor Mounted, 1-inch	1
213.5	2221	New-Jan '61	Cleaning Machine, Small Parts, Portable	1	234	2247	New-Jan '61	Drill, Pneumatic, Portable, 7/8 inch	1
215	2224	New-Jan '61	Coat, Safety, Heat Protective, Small Size	1	235	2250	New-Jan '61	Faceshield, Industrial	1
216	2227	New-Jan '61	Compressor, Air, Portable	1	236	2252	New-Jan '61	Flaring and Beading Machine, Electric	1
218	2228	New-Jan '61	Compressor, Reciprocating, Power Driven	1	237	2254	New-Jan '61	Flashlight, Two Cell	1
219	2229	A-Feb '61	Cable Assy, Power, Electrical	1	239	2255	New-Jan '61	Floodlight, Electric	1
219.1	2101	New-Jan '61	Crane, Shovel, Truck Mounted, Revolving, 20-Ton	1	240	2256	New-Jan '61	Folding Machine, Sheet Metal, Bar Type	1
					241	2257	New-Jan '61	Forming Machine, Sheet Metal, Slip Roll	1
					242	2258	New-Jan '61	Furnace, Heat Treating, Electric	1
					243	2259	New-Jan '61	Fire Pot, Liquid Fuel	1
					256	2260	New-Jan '61	Gloves, Cloth, Asbestos	1
					257	2262	New-Jan '61	Gloves, Rubber, Synthetic	1
					258	2263	New-Jan '61	Goggles, Industrial	1

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## LIST OF EFFECTIVE ITEMS (cont)

## VOLUME I

<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>	<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>
259	2265	New-Jan '61	Grinding Machine, Utility, Bench Type, 8 Inch	1	268.5.5	2359	New-Jan '61	Kit, Tool, AFSC Specialist	1
260	2266	New-Jan '61	Grinding Machine, Utility, Floor Mounted	1	268.5.6	2360	New-Jan '61	Kit, Tool, AFSC Specialist	1
262	2267	New-Jan '61	Grinder, Electric, Portable, 8 Inch Wheel	1	268.5.7	2361	New-Jan '61	Kit, Tool, AFSC Specialist	1
265	2309	New-Jan '61	Riveter, Blind, Pneumatic (1/8 to 9/32 Inch Cap)	1	268.5.8	2362	New-Jan '61	Kit, Tool, AFSC Specialist	1
265.7	2272	New-Jan '61	Hammer, Pneumatic, Portable (1/4 Inch)	1	268.5.9	2363	New-Jan '61	Kit, Tool, AFSC Specialist	1
266	2275	New-Jan '61	Helmet, Welder's	1	268.6.0	2364	New-Jan '61	Kit, Tool, AFSC Specialist	1
266.7	2277	New-Jan '61	Hose, Rubber, (1/4 Inch ID) Air	1	268.6.1	2365	New-Jan '61	Kit, Tool, AFSC Specialist	1
266.8	2278	New-Jan '61	Hose, Rubber (3/8 Inch ID) Air	1	268.6.2	2366	New-Jan '61	Kit, Tool, AFSC Specialist	1
266.8.1	2279	New-Jan '61	Hose, Rubber, (1/2 Inch ID) Air	1	268.6.3	2367	New-Jan '61	Kit, Tool, AFSC Specialist	1
267	2280	New-Jan '61	Hose, Rubber, (5/8 Inch ID) Water	1	268.6.4	2368	New-Jan '61	Kit, Tool, AFSC Specialist	1
268.1	2284	New-Jan '61	Inspection Kit, Dye Penetrant	1	268.6.5	2369	New-Jan '61	Kit, Tool, AFSC Specialist	1
268.5.0	2354	New-Jan '61	Kit, Tool, AFSC Specialist	1	268.6.6	2370	New-Jan '61	Kit, Tool, AFSC Specialist	1
268.5.1	2355	New-Jan '61	Kit, Tool, AFSC Specialist	1	269	2331	New-Jan '61	Stepladder, Wood (8 Foot)	1
268.5.2	2356	New-Jan '61	Kit, Tool, AFSC Specialist	1	270	2287	New-Jan '61	Lamp Assy, Electric, Fluorescent Desk	1
268.5.3	2357	New-Jan '61	Kit, Tool, AFSC Specialist	1	272	2289	New-Jan '61	Lathe, Engine (14 Inch Swing)	1
268.5.4	2358	New-Jan '61	Kit, Tool, AFSC Specialist	1	274	2290	New-Jan '61	Light, Extension (100 Foot)	1
					274.5	2291	New-Jan '61	Lubricating Unit, Power Operated	1
					275	2294	New-Jan '61	Milling Machine, Horizontal, Plain	1
					276	2200	New-Jan '61	Agitator, Paint, Shaker Type	1
					277	2322	New-Jan '61	Sewing Machine, Industrial	1

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## LIST OF EFFECTIVE ITEMS (cont)

## VOLUME I

<u>Item Sequence</u>	<u>Old Item Sequence</u>	<u>Date and/or Revision</u>	<u>Nomenclature</u>	<u>Fig. A Page No.</u>
278	2292	New-Jan '61	Marking Machine, Electric Wire, Flexible Insulating Sleeving	1
279	2298	New-Jan '61	Oil Gun, Pneumatic	1
279.1	2264	New-Jan '61	Grease Gun, Hand (3 oz Cap), Flush Type Nozzle	1

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# PART I

SERIES E AND F ITEMS COMMON TO SERIES D



66

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO.	(See Column 7) REV.:
<p>The hydraulic drive mechanism attaches to the trailer structure and pulls the trailer a distance of approximately 26 inches during the critical and final process of backing the missile into the launcher. The mechanism is also used to pull the trailer along the rails approximately 18 inches when removing the missile from the launcher. The mechanism is secured to one of the aft rails and is pivoted so that it may be rotated out of the path of the casters on the trailer. The use of this mechanism permits the movement of the trailer to be precisely and accurately controlled during the critical time of engaging or disengaging the missile from the launcher. Movement of the trailer by the towing vehicle during this period cannot be controlled accurately enough.</p> <p>(5) <b>PROBLEM AREA:</b> During mating, alignment of the missile handling trailer with respect to the launcher must be controlled within a tolerance of approximately 0.25 inch. The vertical and horizontal position of the missile on its trailer relative to the trailer casters is controlled by use of alignment gages at the SMA.</p> <p>Equipment is required which will:</p> <ol style="list-style-type: none"> <li>1) When used in conjunction with the missile handling trailer, guide and align the missile accurately along the vertical and lateral axes during mating with the launcher.</li> <li>2) Insure that the missile is properly mated to the launcher simply and in a minimum of time.</li> <li>3) Prevent damage to the missile during the mating operation.</li> <li>4) Accurately control the longitudinal position of the missile during the backing process.</li> </ol> <p>(18) <b>REMARKS:</b> This item is the same as item 10.1 in Report No. ZM-7-357.</p>					



USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:							
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
19. 1. 1		27-91000-3			TRAILER, HANDLING, MISSILE	Est 150,000					CFE														
		Spec 27-09422-5			FSC NOMENCLATURE: SEMITRAILER, GUIDED MISSILE																				
		Spec Cont Dwg 27-09423-5																							
		EID-27-9241																							
					1450-472-8793AC																				
					(4) NOMENCLATURE: (PNS) Trailer, Handling, Missile.																				
					This trailer supports the missile during transportation by highway. The unit, of tubular steel construction, measures approximately 840 inches long, 137 inches wide, 138 inches high, and weighs approximately 24,000 pounds. When loaded and in roadable condition, the missile-trailer combination measures approximately 900 inches long, 168 inches wide, and 166 inches high. The trailer has a road clearance of approximately 10 inches. The trailer with its tractor has Type III mobility in accordance with MIL-M-8090A.																				
					The trailer is equipped with power-steerable, tandem-mounted, rear wheels. During over-the-road transportation, tillermen seated in cabs on each side, near the rear of the vehicle, steer these wheels. The cabs are designed to provide maximum protection from the elements and still afford maximum visibility.																				
					The wheels may be steered by either or both tillermen. This permits a fully loaded trailer coupled to its tractor to negotiate a 90-degree turn from one 40-foot lane to another. The steering mechanism is equipped with a neutral-position lock which permits towing as a conventional semitrailer without tillermen.																				
					An interphone system is provided for communication between the tractor driver and the tillermen.																				
					A ladder, located on the right side of the trailer approximately 312 inches aft of the forward end, provides an observation point which can be used to judge vertical clearances. This ladder is pivoted so that it can be locked in either the up or down position.																				
					The transport pressure unit (TPU) is a control, designed to maintain adequate pressure in the missile fuel and liquid oxygen tanks automatically during storage, maintenance, ground or air transport. The TPU control box measures approximately 20 inches wide, 36 inches deep, 11 inches high, and is mounted so that it is visible and accessible to the left tillerman while the trailer is in motion.																				
					Gages on the TPU show reserve helium or nitrogen pressure in the supply bottles, and service pressure within the missile tanks. Service pressure in the missile tanks is regulated by a series of pneumatically operated valves, regulators, and relief valves. Valves for emergency hand operation are arranged to permit any necessary routing of the gas.																				

## USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.

During storage or ground transportation the TPU senses ambient pressure and regulates pressures in the missile tank accordingly. During air transport the unit senses absolute pressure.

The pressure supplied to the missile fuel tank is set higher than, and controlled independently of, the pressure supplied to the liquid oxygen tank. The missile liquid oxygen boiloff valve and its controlling differential pressure switch are powered electrically from the trailer-mounted pressure unit. This boiloff valve and pressure switch can act to bleed gas from the liquid oxygen tank independently of the trailer unit if the pressure across the tank bulkhead drops below a safe value. A warning horn blows if either liquid oxygen tank pressure or bulkhead differential pressure approach the low limit (0.9 psig  $\pm$  0.25 psig), or if the fuel tank pressure approaches the high limit.

The forward and aft missile supports are adjustable structures fastened to the trailer chassis. These supports are designed to provide vertical, lateral, and roll adjustment capabilities which are used in positioning a missile on its trailer and to permit mating or demating the missile booster and tank sections. The forward missile support carries the forward end of the tank section and is designed so that it can transmit an axial stretching force to the missile. A means of indicating and regulating the magnitude of the stretching force is provided. The aft support points carry the booster section and are designed to transmit lateral loads to the missile in the outboard direction only.

The aft missile support points are located on a ruggedly built booster carriage. This carriage is provided with vertical rollers at each corner. These rollers run on rails which are integral parts of the main trailer structure. Normally, the carriage is locked in the forward position so that it can be used to support the aft end of the assembled missile booster section and

the tank section. When separated, the booster can be moved a distance of approximately 44 inches aft of the tank section.

When the booster is to be demated from the tank section, an adjustable missile support band is raised hydraulically. This support band carries the aft end of the tank section while this end of the tank section is unsupported by the booster section.

The missile booster section can be completely removed from the missile handling trailer. This is accomplished by coupling the rails of the booster handling trailer to the rails of the missile trailer and transferring the loaded booster carriage to the booster trailer.

The trailer is raised by means of four hydraulically operated jacks. These jacks are located near each corner of the trailer and are used to:

- 1) Store the missile and trailer, or trailer, for extended periods.
- 2) Function as a landing gear for the trailer.

These hydraulically actuated jacks incorporate features which prevent settling of the hydraulic cylinders.

Four grooved nonswiveling casters are located near the corners of the trailer. These casters are used when positioning the missile and trailer at the launcher. These casters are guided by permanently secured rails at the launcher.

The trailer is equipped with air-actuated brakes, which are compatible with standard Air Force towing vehicles. The braking system includes standard emergency break-away features in accordance with ICC regulations. A hand-operated parking brake operates on the wheels. The brake lines are readily detachable from the bogie to permit bogie removal. A cover, provided with the

trailer, protects the missile against water and dirt damage when the missile is installed on the trailer. The cover is constructed of a lightweight, pliable, waterproof fabric, which covers the entire missile.

(5) PROBLEM AREA: A complete missile measures approximately 75 feet long and 16 feet wide at the greatest dimension of the booster section. The missile tank section measures approximately 10 feet in diameter. The thin skin of the pure mono-coque missile tank section must be kept under tension, either by stretch or by pressurization, at all times to prevent structural damage to the missile.

Mobile equipment is required to support and handle a missile during final stages of production assembly, during maintenance, and until the missile has been mated with the nosecone and the launcher, and is suspended by the erection boom. It is desirable to assign only one piece of mobile equipment to a missile to reduce handling of the missile structure. This mobile equipment should be usable for both long and short haul over-the-road transportation as well as air transport.

Equipment is required which can be used to:

- 1) Accommodate a missile capable of carrying the GE MK III re-entry vehicle or the AVCO Series IV re-entry vehicle.
- 2) Support and transport a missile during over-the-road movement from the depot-factory to the SMA when air transportation is not feasible.

## USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

- 3) Support a missile during inspection, check-out, repair, and storage within the SMA.
- 4) Support and transport a missile during movement by road from the SMA to the horizontal missile enclosure at the launcher.
- 5) Permit rapid demating and/or removal and replacement of the missile booster section and provide support for the missile tank section while the booster is demated.
- 6) Maintain longitudinal stretch on the missile tanks during storage or in case of emergency.
- 7) Maintain adequate propellant tank pressures during ground transportation and storage of a missile, and during periods when the booster section is detached.
- 8) Maintain precise orientation of the load in relation to the trailer casters. This is required to permit rapid aligning and mating of the missile with the launcher and with the erection boom at the launcher.
- 9) Facilitate missile attachment to and suspension from the forward end of the erection boom and thus permit withdrawal of the mobile equipment from the horizontal enclosure.
- 10) Support and pressurize the missile during air transport.

This item is similar to Item 19.1.1 in Report No. ZM-7-357.

ECP 280-4, CCN 19, authorizes furnishing the following equipment with the missile handling trailer:

- 1) Aft booster turbine exhaust duct support (2)
- 2) Forward booster turbine exhaust duct support (2)
- 3) AIG pod support (1)

# The item provisioned for OSTF No. 1 will also support OSTF No. 2.

(18) REMARKS: This trailer can be used to transport Series D missiles if required.

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV.:													
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)									
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TYPE	COGNIZANT LABORATORY, CONFIGURATION & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER						
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																												
19.2		MBAC-1450-653-7939	27-90001-1	Spec 27-09414-1	TIE-DOWN AND SUPPORT, TRAILER, ENGINE GIMBALING		Est 1,332			CFE																						
		Spec Cont Dwg 27-09415-1		EID-27-9309	FSC NOMENCLATURE: SUPPORT SET, MISSILE SEMITRAILER																											
(4) NOMENCLATURE: (PNS) Tie-Down and Support, Trailer, Engine Gimbaling.					(5) PROBLEM AREA: Gimbaling of missile engines can cause a missile handling trailer to move about and thus imperil the safety of both equipment and personnel.																											
This equipment consists of a set of six steel tripod-shaped supports with a mechanism at the apex of each for attachment to the missile handling trailer (Item 19.1.1). These supports are bolted to the floor of the missile assembly building through integral base plates. Each unit measures approximately 85 inches by 42 inches at the base and is approximately 38 inches high. These supports are placed at the front, center, and rear along each side of the trailer.					Equipment is required which will support and hold a missile handling trailer firmly in place during engine gimbaling tests of a trailer supported missile in the missile assembly building.																											
The supports are adjustable in three directions: vertically, laterally, and longitudinally. Vertical and lateral adjustments are made with a mechanism located in the apex of each tripod. This mechanism incorporates clamping devices which lock the mechanism at any desired adjustment. The mechanism also contains the device for securely attaching the missile handling trailer to the tripods. Slotted holes in the base plates provide longitudinal adjustment.					† The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.																											
																		CONTRACT NO. AF 04(647)-370														
																		OSTF No. 1														
																		CONTRACT NO. AF 04(647)-346														
																		9 mo 7/10/59 7/8/60					576-C					1				
																							567					1				
																							548					1				
																							706					1				
																							549					*				
																		CONTRACT NO. AF 04(647)-453														
																		OSTF No. 2														
																		CONTRACT NO. AF 04(647)-605														
																							576-D					†				
																							576-E					†				
																		9 mo 2/24/60					550					1				
																							551					1				
																							577					1				
																							578					1				
																							579					1				
																							556					1				
																		ATC					T-330 (1)									

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 19.2

Page 1 of 1



7E

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7)	REV.:
<p>† Borrow from Samos/Midas.</p> <p>‡ The item provisioned for complex 576-C will also support complexes 576-D and E.</p>					



38

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO.	(See Column 7) REV.:
<p>to automatically cool the compressed gas at the rated capacity and pressure (150 scfm, 8500 psig) to a temperature of 37 degrees F, plus-or-minus 5 degrees F, throughout the operating range from minus 65 degrees F to plus 125 degrees F. Gages on the control panel indicate refrigeration compressor unit suction and discharge pressure, and refrigerated gas temperature.</p> <p>The solenoid operated intake valve opens automatically when the compressor starts and closes whenever the compressor stops. Total compressor running time is recorded on an hour meter. A recording device is placed upstream of the desiccant section to record desiccant usage time. The unit has a capacity meter for measuring gas flow rate delivered at the compressor servicing connection. The instruments on the panel include a moisture and a hydrocarbon detector.</p> <p>The compressor compartment is completely insulated with two inches of Styrofoam between aluminum sheets. Doors provide access to all working components. The entire roof section is removable. This arrangement provides a series of hatches which supply access to all components from above.</p> <p>(5) PROBLEM AREA: Helium is used during missile flight to pressurize the thin-skinned pure monocoque missile propellant tanks and to operate the valves which provide engine control. The helium used for this purpose must be stored in the facility cylinders at pressures sufficiently high to ensure that the missile can be supplied with a given weight of helium at the required pressures. In addition, a supply of helium is required for checkout of the missile pneumatic system. This supply of helium must be available both at the launcher and at the SMA. Helium is delivered to the squadron in either railroad tank cars or at pressures up to 3750 psig in helium semitrailers.</p>		<p>Equipment is required which is capable of compressing helium gas to 8500 psig from 3750 psig at a volumetric rate of 150 scfm. The 8500 psig pressure is required to recharge the helium facility storage cylinders which are located at the launcher and at the SMA.</p> <p>(18) REMARKS: # The item provisioned for OSTF No. 1 will also support OSTF No. 2.</p>			



04

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045																														
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7)	REV.:																														
<p>gage is provided to indicate the liquid level in the inner shell. All gages and controls are conveniently displayed on a tank control panel.</p> <p><u>High Pressure Liquid Pump Assembly</u> - This assembly consists of a liquid pump; an electric motor drive and power transmission coupling; a liquid pump inlet filter; a liquid pump discharge filter; and a check valve; together with the mountings, controls, instruments, and accessories. The liquid pump is driven by a 220/440-volt, 60-cycle, 3-phase, ac electric motor with power transmission coupling assembly. The liquid pump assembly is designed for pumping liquid oxygen or liquid nitrogen from the liquid storage tank assembly, and discharging the liquid to the vaporizer assembly. The pump is a positive-displacement type unit capable of pumping liquid oxygen or liquid nitrogen. A speed change mechanism with controls makes it possible to change pump speed. Inlet and outlet pump filters and a high pressure check valve are included to screen the liquid and prevent backflow of pressure from the vaporizer assembly to the pump.</p> <p><u>Vaporizer Assembly</u> - This assembly receives the pressurized liquid oxygen or liquid nitrogen, vaporizes and warms the resulting gas to within 25 degrees F below ambient temperature, and charges the unit manifold. A check valve is placed between the vaporizer assembly and the charging manifold to prevent backflow of gas when the vaporizer discharge pressure falls below the manifold pressure. Temperature control is provided which will shut down the liquid pump when the temperature of the gas delivered by the vaporizer drops to more than 60 degrees F below ambient temperature.</p> <p><u>Charging Manifold Assembly</u> - The charging manifold assembly is designed to charge high pressure gas storage containers with the oxygen or nitrogen vapor delivered by the vaporizer assembly. When the discharge manifold pressure reaches the designed shutoff pressure, a pressure switch signals the high pressure liquid pump</p>	<p>to stop. The pump is started by depressing a manual push button.</p> <p><u>Accessories</u> - The accessories included are:</p> <ol style="list-style-type: none"> <li>1) One flexible hose, 20 feet long, which is used for transferring liquid oxygen from a M5-1 semitrailer.</li> <li>2) Two flexible hoses, 26 feet long, which are used for transferring the gas from the charging manifold to the facility storage cylinders.</li> <li>3) A 50 foot length of 6-conductor, 440-volt heavy duty flexible power cable designed for severe service.</li> <li>4) Protecting caps to cover hose and recharge disconnect points.</li> </ol> <p>(5) <b>PROBLEM AREA:</b> Facility storage cylinders are provided for storage of gaseous nitrogen. These storage cylinders have the capacity for storing this gas in the following volumes at the stated pressures:</p> <table border="1"> <thead> <tr> <th>Qty.</th> <th>Type Cylinder</th> <th>Water Vol. (cu. ft.)</th> <th>Pressure</th> <th>Volume (scf)</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>52" id x 23' 0" Long 2,800 dwp</td> <td>2,488 (@ 311 ea)</td> <td>2,400</td> <td>411,000</td> </tr> <tr> <td>1</td> <td>24" id x 18' 0" Long 2,800 dwp</td> <td>53</td> <td>2,400</td> <td>8,640</td> </tr> </tbody> </table> <p>2) Nitrogen (Pressure Range 2,400 to 8,000)</p> <p><u>Launcher: (Propellant Transfer)</u></p> <table border="1"> <tbody> <tr> <td>Cylinders</td> <td>5</td> </tr> <tr> <td>Volume total</td> <td>98,900 scf</td> </tr> <tr> <td>Water volume</td> <td>4,598 gal</td> </tr> </tbody> </table>	Qty.	Type Cylinder	Water Vol. (cu. ft.)	Pressure	Volume (scf)	8	52" id x 23' 0" Long 2,800 dwp	2,488 (@ 311 ea)	2,400	411,000	1	24" id x 18' 0" Long 2,800 dwp	53	2,400	8,640	Cylinders	5	Volume total	98,900 scf	Water volume	4,598 gal	<p>SMA (Storage)</p> <table border="1"> <tbody> <tr> <td>Cylinders</td> <td>5</td> </tr> <tr> <td>Volume total</td> <td>145,600 scf</td> </tr> <tr> <td>Water volume</td> <td>5,540 gal</td> </tr> </tbody> </table> <p>Launcher (Control System)</p> <table border="1"> <tbody> <tr> <td>Cylinders</td> <td>6</td> </tr> <tr> <td>Volume total</td> <td>130,500 scf</td> </tr> <tr> <td>Water volume</td> <td>3,202 gal</td> </tr> </tbody> </table> <p>Equipment is required which is capable of receiving liquid nitrogen from a semitrailer and discharging nitrogen in the gaseous state into facility storage cylinders. The equipment should be mobile to facilitate movement over roadways at the launcher and SMA and should be air transportable.</p> <p>Two operators should be able to completely prepare the unit, selected to charge the facility gas storage cylinders, within twenty minutes after arrival at a new location. Two operators should be able to completely prepare the unit for transport within ten minutes after servicing the facility gas storage cylinders.</p> <p>(18) <b>REMARKS:</b> This item is the same as item 28.5.4 in Report No. ZM-7-357 and fulfills MIL-S-26530 requirements.</p>	Cylinders	5	Volume total	145,600 scf	Water volume	5,540 gal	Cylinders	6	Volume total	130,500 scf	Water volume	3,202 gal
Qty.	Type Cylinder	Water Vol. (cu. ft.)	Pressure	Volume (scf)																															
8	52" id x 23' 0" Long 2,800 dwp	2,488 (@ 311 ea)	2,400	411,000																															
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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961			LIST NUMBER: AP60-1045																				
SM-65			CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.																
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)													
LINE SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFI- CATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRO- DUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER													
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																		
30.2	Sprague Eng. 75725 Spec 27-08650-5 EID-27-8226				PUMPING UNIT, HYDRAULIC		Est 40,000																															
(4) NOMENCLATURE: (PNS) Pumping Unit, Hydraulic.					the electric motor which, in turn, operates on 440- volt, 3-phase, ac power.																																	
This unit is skid mounted; measures approximately 12 feet long, 6 feet wide, 6 feet high; and weighs approximately 7,800 pounds.					Each low-pressure pump draws hydraulic fluid (MIL-O-5606) from the supply tank or missile re- turn line and delivers this fluid to the high-pressure pumps at rates of approximately 23 gpm and 12 gpm with pressure ranges of approximately 10 psig to 150 psig. Each high-pressure pump, in turn, supplies this hydraulic fluid at 3000 psig to the missile booster hydraulic system at 23 gpm and to the mis- sile sustainer/vernier hydraulic system at 12 gpm.																																	
The unit contains two independent hydraulic pumping systems housed in a common cabinet. The first- stage system is connected to the missile booster hydraulic system; the second-stage system to the missile sustainer/vernier hydraulic system.					The power pumps are used to fill and bleed the two missile hydraulic systems independently. The flow- meters provide a check point which is used to verify that the unit hydraulic system is free of air. The unit fluid reservoirs are depressurized during this period.																																	
Each hydraulic-fluid system comprises a low- pressure pump, high-pressure pump; electric motor, cooler-heater, fluid-supply tank, flowmeter (sight gage), and associated hand valves, relief valves, gages, and filters (cleanliness controlled by Convaire Spec. No. 0-75014). The system also includes a remote control cable connection which controls the pump motors; a pressurized fluid reservoir (working pressure 100 psig); and an oil evacuation system which removes, under pressure, approximately 65 cubic inches of oil from the missile hydraulic system. The remote control cable connection also provides indications, in the launch operation building, of the operational readiness of the unit. Both the high- pressure and low-pressure pumps are operated by					After filling and bleeding is complete, the flow- meters are bypassed and the unit fluid reservoir is pressurized to approximately 100 psig. The unit is then ready to supply hydraulic power to either of the missile hydraulic systems or to both missile hy- draulic systems simultaneously.																																	
																		CONTRACT NO. AF 04(647)-370			OSTF No. 1																	
																		CONTRACT NO. AF 04(647)-346			9 mo			2/19/60			6/5/60			576-C			1			1		
																											567			1			1					
																											548			1			1					
																											706			1			1					
																											549			*								
																		CONTRACT NO. AF 04(647)-453			OSTF No. 2																	
																		CONTRACT NO. AF 04(647)-605									576-D			1								
																											576-E			1								
																								9 mo						550			1			1		
																														551			1			1		
																														577			1			1		
																														578			1			1		
																														579			1			1		
																														556			1			1		
																														ATC			T-330 (1)					

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended  
Quantity
Approved  
QuantityAsterisk indicates common usage with  
adjacent complex and/or area.Use Current List of Effective Pages  
as guide for inserting Revision Pages.

ITEM NUMBER: 30.2

Page 1 of 2

## USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER AFoO-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV.

The unit is designed to maintain the desired discharge pressures (2000 psig, and 3000 psig), temperatures, and flow rates automatically. Each unit fluid tank has a capacity of approximately 30 gallons. Each system has a cooler and heater which maintain the temperature of the hydraulic fluid between 35 degrees F and 100 degrees F throughout the complete range of environmental operating conditions.

A common hydraulic-fluid control panel is mounted on the front of the hydraulic pumping unit. This panel contains all of the valves, gages, sight glasses, indicators, and switches required for local manual operation of the system. Provisions for remote control of each system from the launch operations building are included where required.

A nitrogen gas control system is provided for unit-component pressurization (fluid reservoirs and oil evacuation chambers).

The following utilities are required for operation of this equipment:

- 1) 150 kva of 440-volt, 60-cycle, 3-phase ac power
- 2) 0.7 kw of 28-volt dc power
- 3) 50 gpm of fresh cooling water at 60 psig and temperatures between 40 degrees F and 70 degrees F

(5) PROBLEM AREA: When the missile arrives at the SMA from the factory, its hydraulic systems must be leak checked, filled, and bled to ensure that they are ready for checkout. Checkouts to assure the readiness of the hydraulic systems for use are required at the

SMA and periodically, at the launcher. These checkouts require a supply of automatically regulated hydraulic power to the two systems at temperatures ranging from 35 degrees F to 100 degrees F and at the following flow rates:

Booster Hydraulic System - 2 gpm to 23 gpm at 3000 psi

Sustainer/Vernier Hydraulic System - 2 gpm to 12 gpm at 3000 psi

A separate supply of hydraulic power is required for each missile hydraulic system. This is required because, if the supply was manifolded, the actuation of one missile hydraulic system would result in depletion of hydraulic power in the supply lines of the inactive system. Such depletion could cause interaction between the thrust chambers and result in possible damage to these chambers.

The missile internal hydraulic power sources are inoperative until just before engine firing during countdown. However, the countdown procedure calls for activation of both hydraulic systems from an external source prior to this time. Normally, supply pressure during countdown is 2000 psig. Approximately one minute prior to launch, 65 cubic inches of fluid volume are removed from each missile hydraulic system. Safety demands that hydraulic power to the missile be controlled remotely during static firing or missile launching. Hydraulic power during most other checkouts requires local control.

Equipment is required which can be used for:

- 1) Filing and bleeding booster and sustainer/vernier hydraulic systems.

- 2) Supplying automatically regulated hydraulic power individually to each separate missile hydraulic system during checkout or countdown. Pressures required are 2000 psig and 3000 psig with remote control of 2000 psig supply pressures.
- 3) Remote and local control of the hydraulic power supply and remote control as specified in (2) above.
- 4) Adequate fluid and contamination control including filtration per Convair Spec No. 0-75014.

(18) REMARKS: This item is the same as item 30.2 in Report No. ZM-7-357 and in GOE Report No. AP60-1046.

‡ Reallocated from OSTF No. 1 per AF TWX WDTCG-7-7-1 dated 7-8-60.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.



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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7)	REV.:
<p>Equipment is required at the launcher which will permit flushing, filling, and bleeding of the ground hydraulic system when the launcher does not contain a missile. The system to be flushed includes the hydraulic pumping unit and associated facility launcher lines which terminate at the rise-off disconnect panel located between Quadrant I and Quadrant II on the launcher. The equipment supplied must be capable of simulating the loads imposed by the missile booster and sustainer hydraulic systems in the absence of the actual missile hydraulic systems. Simulation of the missile hydraulic loads for each system must be adjustable manually.</p> <p>(18) REMARKS: † The item provisioned for complex 576-C will also support complexes 576-D and E.</p>					

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV: A-Feb '61					
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)		
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ASDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
31.5	Pac Aero TE 15561A Spec 27-08401-3 EID 27-8011				PUMP, VACUUM, MAINTENANCE FSC NOMENCLATURE: VACUUM PUMP, RECIPROCATING, POWER DRIVEN TRAILER MOUNTED		Est 9,500																		
		<p>(4) NOMENCLATURE: (PNS) Pump, Vacuum, Maintenance.</p> <p>This is a cabinet enclosed, trailer mounted piece of equipment comprising a high-vacuum pump, coolant circulation pump, drive motor, and heat exchanger together with their associated plumbing, hose, and controls. All operating components are attached to the trailer chassis. When maintenance requires full access to all components, the entire cabinet may be removed from the chassis. To aid in removal, hoisting eyes are provided along the center line on the cabinet top.</p> <p>The vacuum pump is a Kinney Manufacturing Co. Model KDH 130, water-cooled, single, stage pump. The unit measures approximately 3 feet square by 4 feet high and weighs approximately 800 pounds. The pump has a free air capacity of 131 cfm at 535 rpm. At ultimate pressure of 10 microns, the pumping capacity falls to 44 cfm with blankoff occurring at 5 microns. The pump is driven by a 5-hp electric motor.</p> <p>A model OL Tuthill circulating pump with a capacity of 1.8 gpm is provided to circulate the coolant medium.</p> <p>A heat exchanger of coiled tubing is located directly behind the ventilation louvers of the cabinet.</p> <p>This heat exchanger is connected between the circulating pump and the jacket of the vacuum pump. The circulating pump is driven by the same double-shaft, 5-hp electric motor that drives the vacuum pump.</p> <p>The accessories provided include a dual-switch heating element for temperature control of the vacuum pump fluid, explosionproof motor controller equipment, a low-vacuum, bourdon-tube type gage, a high-vacuum, thermocouple type gage, and the necessary length of flexible hose required to connect the unit to the liquid oxygen tank.</p> <p>The following special tools are required for support of this item:</p> <ol style="list-style-type: none"> <li>1) Immersion thermometer for checking the settings of the thermoswitch.</li> <li>2) Immersion thermometer adapter which is used in conjunction with the immersion thermometer.</li> <li>3) Cap wrench for use on the Tuthill circulating pump.</li> <li>4) Housing plug wrench for use on the Tuthill pump.</li> </ol>																							
																	CONTRACT NO. AF 04(647)-370								
																	OSTF No. 1								
																	CONTRACT NO. AF 04(647)-370								
																	576-C								
																	567								
																	9/13/60								
																	548								
																	706								
																	549								
																	CONTRACT NO. AF 04(647)-453								
																	OSTF No. 2								
																	CONTRACT NO. AF 04(647)-605								
																	576-D								
																	576-E								
																	550								
																	551								
																	577								
																	578								
																	579								
																	556								
																	ATC								

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 31.5

Page 1 of 2

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F			DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7) REV.: A - Feb '61
<p>(5) <b>PROBLEM AREA:</b> Following extensive repairs to the storage tanks for liquified gases, it is required that the annular spaces in these tanks be evacuated.</p> <p>Portable equipment of the large capacity vacuum pump type is required for use in initial evacuation of the annular space in liquified gas storage tanks. The equipment provided must be constructed so that it is capable of movement over both paved and unpaved roadways.</p> <p>(18) <b>REMARKS:</b> This item is the same as item 31.5 in Report No. ZM-7-357.</p> <p>‡ The Series D item provisioned for complex 576-A under item 31.5 in Report No. ZM-7-357 supports SMA requirements at complex 576-C.</p> <p>¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549SMS.</p> <p>Series F requirements deleted per BMC TWX LBWAR-12-63-E, dated 15 December 1961 and action of 19 January 1961 Provisioning Conference.</p>				

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 22 February 1961		LIST NUMBER: AP60-1045							
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.					
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)	
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC. APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SWA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																				
31.6		27-80920-1			ADAPTER ASSEMBLY, VACUUM PUMP TO LIQUID NITROGEN RECHARGFR	Est 50																		
		EID 27-8102																						
					CONTRACT NO. AF 04(647)-370																			
					OSTF No. 1																			
					3 mo 1/16/61 10/3/60																			
					CONTRACT NO. AF 04(647)-346																			
					3 mo 1/16/61																			
					576 C																			
					567																			
					548																			
					706																			
					549																			
					CONTRACT NO. AF 04(647)-453																			
					OSTF No. 2																			
					CONTRACT NO. AF 04(647)-605																			
					576-D																			
					576-E																			
					550																			
					551																			
					577																			
					578																			
					579																			
					556																			
					ATC																			

(4) NOMENCLATURE: (PNS) Adapter Assembly, Vacuum Pump to Liquid Nitrogen Recharger.

This adapter assembly is designed to adapt the suction hose of the vacuum pump (Item 31.5) to the vacuum fittings on the storage tank of the nitrogen recharger unit (Item 28.5.4).

The assembly comprises a corrosion resistance steel disc and four 1/2-20 studs and nuts. The disc which measures approximately 7-1/2 inches in diameter and 3/4-inch thick is provided with a 2-inch diameter passage hole. Four 3/4-inch diameter holes in the disc permits mounting the disc on the storage tank vacuum fittings. The studs and nuts provide for attachment of a section hose from the vacuum pump.

(5) PROBLEM AREA: The annular space in the storage tank of the nitrogen recharger must be evacuated in the event a leak develops in the tank. Such leaks may occur as a result of disc rupture, vacuum-gauge replacement, etc.

A device for adapting the suction hose of the vacuum pump to the vacuum fitting on the nitrogen recharger must be provided.

(18) REMARKS: The item provisioned for OSTF No. 1 will also support OSTF No. 2 and complexes 576-C, -D, and -E.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 31.6

PA

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045																
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.																
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																		
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)										
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MFG	UNIT PRICE	MFG	COGNIZANT LAUNCH, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER						
		CLASS CODE	SERIAL NUMBER	MFG PART OR DWG. NUMBER																												
33		MBAC 1450-614-4539 27-51062-1 EID-27-3001			TOOL SET, MOTION AND ALIGNMENT			Est 5,600																								
(4) NOMENCLATURE: (PNS) Tool Set, Motion and Alignment.					The end fittings hold, and support the tubes in a fixed horizontal position parallel with each other. The two adjustable fittings can be clamped to the tubes at any point between the end fittings. Two locating pins, one each, are mounted on one of the end fittings and one of the adjustable fittings respectively. These pins are supported and extend upward from the tops of rectangular bosses. Distance between the pins may be varied longitudinally by moving the adjustable fitting. The other adjustable fitting houses a direct reading dial indicator gage (Federal Indicator Model C815). The adjustable fittings are arranged on the tubes so that the fitting with the locating pin is adjacent to the end fitting with the locating pin.																											
This item comprises the following subassembly units:																																
Part Number		Nomenclature			Units Per Item																											
27-51200		Gage, Thrust Alignment, Sustainer Actuator Length			1																											
27-51201		Gage, Thrust Alignment, Booster Actuator Length			1																											
27-51202		Gage, Booster Thrust Chamber Motion Measurement			2																											
27-51203		Gage, Sustainer Thrust Chamber Motion Measurement			1																											
Gage, Thrust Alignment, Sustainer Actuator Length - This gage consists of two tubes, two end fittings, a dial indicator, a gage bar, and two adjustable fittings. The tubes are mounted between the end fittings to form a track on which the two adjustable fittings ride.					A feeler extends from the side of the dial indicator gage, parallel with the tubes and toward the adjacent face of the boss supporting the removable locating pin. Contact with the face of the boss by the feeler, creates a dial indication (minimum dial graduation 1/1000 inch) which can be used as a measure of variations in the longitudinal separation of the locating pins. A gage bar with locating holes spaced 11 inches apart is provided.																											
																	CONTRACT NO. AF 04(647)-370															
																	OSTF No 1															
																	CONTRACT NO. AF 04(647)-346															
																	6 mo.				4/14/60		6/20/60		576 C		1		1			
																							567		1		1					
																							548		1		1					
																							706		*							
																							549		*							
																	CONTRACT NO. AF 04(647)-453															
																	OSTF No 2															
																	CONTRACT NO. AF 04(647)-605															
																							576-D		1							
																							576-E		1							
																							6 mo.		4/14/60		550		1		1	
																							551		1		1					
																							577		1		1					
																							578		1		1					
																							579		1		1					
																							556		1		1					
																							ATC									

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Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL	CONTRACT NO.	(See Column 7) REV.
<p>In operation, the gage is supported in a horizontal position. The gage bar is fitted over the two locating pins, the adjustable fitting (with pin) is locked in position, and the gage bar is removed. Next, the adjustable fitting (with dial indicator) is positioned with its feeler in contact with the adjustable fitting (with pin), locked in position, and the dial indicator set to zero. The adjustable fitting (with pin) is now unlocked and is free to move, the adjustable fitting (with dial indicator) remains locked for the remainder of the procedure.</p> <p>The sustainer thrust chamber actuators are set to their respective, prescribed nulling lengths by placing them across the aligning pins; one end of the actuator over the fixed pin, the other end of the actuator over the movable pin. Actuator length is then adjusted until the dial indicator reads the increment which must be added to 11 inches to establish nulling length. Length of the actuator will then be the length prescribed as that required to align the particular thrust chamber in null position.</p> <p>The gage measures approximately 21-1/2 inches long, 6 inches wide, and 7-1/2 inches high. The tubes are nickel plated aluminum; the fittings are black anodized aluminum. The gage is contained in a case which measures approximately 24 inches long, 10-1/4 inches wide, and 9-3/4 inches high. The case is also constructed of aluminum which has been treated for corrosion resistance. Total weight of the case and contents is approximately 40 pounds.</p> <p><u>Gage, Thrust Alignment, Booster Actuator Length -</u> The booster thrust alignment gage is similar in construction and operation to the sustainer thrust alignment gage. The only difference between the two gages is in the lengths required to accommodate the respective thrust chamber actuators. Two gage bars are provided with the booster gage; one 22 inches long, the other 23 inches long. Selection of gage-bar length</p>	<p>is determined by prescribed actuator length. The 22-inch bar is selected if actuator length is between 22 inches and 23 inches, and 23-inch bar is selected if actuator length prescribed is between 23 and 24 inches.</p> <p>The gage measures approximately 33 inches long, 6 inches wide, and 7-1/2 inches high. The gage is contained in a case measuring approximately 35-1/2 inches long, 10-1/4 inches wide, and 9-3/4 inches high. The total weight of case and contents is approximately 55 pounds.</p> <p><u>Gage, Booster Thrust Chamber Motion Measurement -</u> Two gages are required for simultaneous use, one gage with each booster thrust chamber. Each gage consists of two parts; a tripod and pointer, and a protractor. The two parts of the gage are not mutually attached.</p> <p>The protractor is a circular plate of dural which measures approximately 12 inches in diameter and 1/8 inch thick. Two mutually perpendicular scales, in the shape of a cross, are mounted and centered on one side of the plate. Each scale is graduated to read to plus or minus 5 degrees from the origin (zero). Minimum graduations are one-tenth of a degree. The protractor is mounted at the center of an X-shaped frame fabricated from stainless steel tubing. The members of the frame are spaced 90 degrees apart. Basically, the frame measures approximately 44 inches across. Suitable clamps are provided at the ends of the frame members so that the frame can be attached to the thrust chamber.</p> <p>The tripod can be adjusted vertically between a height of approximately 30 inches and a height of approximately 6 feet. The pointer is mounted on the top of the tripod. This pointer can be positioned horizontally for use with a horizontal missile and vertically for use with a vertical missile.</p>	<p>In operation, the protractor is installed across the exit of the thrust chamber so that the scales of the protractor coincide respectively with the X and Y axes of the thrust chamber. The thrust chamber is then nulled. Next, the tripod is positioned and adjusted vertically until the pointer coincides with the zero on the protractor scale. Now, an input signal is introduced to the engine positioning servos. This signal causes the thrust chambers to move in pitch or yaw. As the chamber moves, the magnitude of the motion can be read on the protractor scale. This value provides an accurate check of thrust chamber deflection resulting from a given input signal to the positioning servos.</p> <p>The protractor and the tripod with pointer are housed in an aluminum case which measures approximately 46-3/4 inches long, 46-3/4 inches wide and 16-3/4 inches high. Total weight of case and contents is approximately 148 pounds.</p> <p><u>Gage, Sustainer Thrust Chamber Motion Measurement -</u> The sustainer motion measurement gage is similar in construction and operation to the booster motion measurement gages. The difference is in the clamps. These clamps provide the X-frame with the extended length required for mounting the protractor across the larger exit of the sustainer thrust chamber. The protractor and tripod are housed in a carrying case measuring approximately 46-3/4 inches long, 46-3/4 inches wide, and 16-3/4 inches high. Total weight of case and contents is approximately 153 pounds.</p>			
				(5) PROBLEM AREA:	
				Part 1 - It is required that the thrust vector, developed during operation of rocket engines, be parallel with the longitudinal axis of the missile when the thrust chambers are in null position. Since the direction of the thrust vector with respect to the geometrical centerline	

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO.	(See Column 7) REV.:

of the chamber varies between thrust chambers, each thrust chamber must be aligned individually in all missiles. The engine manufacturer provides values of thrust chamber actuator lengths required to align the thrust vector parallel to the longitudinal axis of the missile, based on a rigid missile structure. Convair provides increment values of actuator lengths which must be added to or subtracted from the rigid values supplied by the engine manufacturer to compensate for deflection of the missile structure when thrust is applied. The net result obtained by combining engine manufacturer values with Convair values provides the true length of the thrust chamber actuators required to null the thrust chambers during engine operation.

Equipment is required which can be used to provide accurate measurement of actuator lengths so that these actuator lengths can be adjusted as required.

Part 2 - Engine positioning servos must be checked to ensure that thrust chamber gimbal motion responds accurately to a given input signal. This is accomplished by introducing a signal to the system and measuring the resultant thrust chamber action.

Equipment is required which can be used to measure thrust chamber motion along the X and Y axes.

(18) REMARKS: † The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961			LIST NUMBER: AP60-1045																	
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION												SAN DIEGO, CAL			CONTRACT NO (See Column 7)			REV		
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)									
ITEM SEQUENCE	GSE SPEC. PARA. NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER										
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																														
33.3.1		Haskel Engineering and Supply Co. 22474 Spec 27-08243-1 EID-27-8083			PURGING UNIT, CANISTER, MOBILE FSC NOMENCLATURE: PRESSURIZING - PURGING UNIT, ELECTRONIC CANISTERS <i>1450-829-3190 AC</i>		Est 4,500																											
(4) NOMENCLATURE: (PNS) Purging Unit, Canister. Mobile.					included in the unit for evacuating the canisters. The pump is driven by a 1/3-hp, 115/230-volt, 60-cycle, explosion-proof motor.																													
This unit is a mobile piece of equipment capable of purging, pressurizing, and checking humidity of the electrical and electronic equipment canisters on a missile. The unit weighs approximately 175 pounds and is enclosed in a steel housing which measures approximately 4 feet long, 2 feet wide, and 2 feet high. Controls are panel-mounted for convenience of operation. The unit is mounted on small casters to facilitate movement. Construction of the unit allows transportation by truck.					This type of equipment affords the following advantages:																													
The unit contains the necessary components for:					<ol style="list-style-type: none"> <li>1) Removal of the canisters from the missile will not be required.</li> <li>2) Since no components are removed or replaced, no system checkout is required. Therefore, "out-of-commission" time of a missile is substantially reduced.</li> <li>3) Possibility of canister damage during transport and handling is eliminated.</li> <li>4) Possibility of damage to pins and plugs during connect and disconnect operations is eliminated.</li> <li>5) A smaller inventory of expensive spares is required as opposed to rotation of canisters to the SMA for servicing.</li> </ol>																													
Flexible hose lines equipped with quick-disconnect fittings route the nitrogen gas from the unit outlets to four canisters simultaneously. A vacuum pump is					(5) PROBLEM AREA: Missile batteries, inverters, and delicate electronic equipment are housed in canisters. To sustain a high degree of reliability the canister humidity levels must be maintained within specified limits. Previously, it was believed that humidity level limits would permit six-month intervals between																													
																	CONTRACT NO AF 04(647)-370			OSIF No. 1			1			1								
																	CONTRACT NO AF 04(647)-346			9/28/59			5/24/60			576 C			1			1		
																							567			2			2					
																							548			2			2					
																							706			1			1					
																							549			*								
																	CONTRACT NO AF 04(647)-453			OSIF No. 2			#											
																	CONTRACT NO AF 04(647)-605			10 mo			1/22/60			576-D			1					
																							576-E			1								
																							550			2			2					
																							551			2			2					
																							577			2			2					
																							578			2			2					
																							579			2			2					
																							556			2			2					
																	ATC			T-330 (1)														

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Recommended Quantity  Approved Quantity   
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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL	CONTRACT NO. (See Column 7)	REV.:
<p>purging and pressurizing cycles. However, recent evaluation indicates that thirty-day intervals are the maximum. Variations up to the maximum are dependent upon environmental conditions at squadron locations.</p> <p>Mobile equipment is required which can purge and pressurize electrical and electronic canisters with nitrogen gas from 3 to 15 psig, within a three-hour period, without removing the canisters from the missile. The equipment must be durable to permit transportation without damage to the unit or its components.</p> <p>(18) REMARKS: Units at operational bases are to be included in mobile checkout and maintenance team equipment.</p> <p># The item provisioned for OSTF No. 1 will also support OSTF No. 2.</p> <p>† The item provisioned for complex 576-C will also support complexes 576-D and E.</p>					

Asterisk (\*) Denotes Common Usage

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV									
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
33.4		27-51031-1			PRESSURIZING UNIT, PORTABLE	Est	1,380																		
		Spec Cont Dwg																							
		27-05100-3																							
		EID-27-3019																							
		<p>(4) NOMENCLATURE: Pressurizing Unit, Portable.</p> <p>This portable unit pressurizes the missile pressure-measuring transducers with dry nitrogen at controlled pressures. The pressure output of the device is adjustable from 2 psig to 600 psig. The unit is packaged in an aluminum case fitted with a shoulder strap for easy carrying. A lid is provided on the case for protection of the unit during storage. This lid is so designed that it provides storage space for extra fittings and hoses. The pressurizing unit includes two outlet hoses each approximately six feet long, and two sets of the following interchangeable fittings: 1/4-inch MS nut, 1/4-inch nut and sleeve, and 1/4-inch AN male fitting. The separate sets of fittings and hoses are provided for use in pressurizing "oxidizer" pressure-measuring transducers. The unit, less the flexible hoses and with its protective lid removed, weighs approximately 35 pounds.</p> <p>The principal components of this portable pressurizing unit are:</p> <ol style="list-style-type: none"> <li>1) Aluminum box assembly. This box assembly measures approximately 18 inches long, 12 inches wide, and 12 inches high.</li> <li>2) Accumulator (nitrogen bottle). This accumulator will operate at a working pressure of approximately 3000 psig and has a minimum</li> <li>3) Pressure gage. This gage has a range of zero to 1000 psi. The gage is mounted on the front panel and is used to read (measure) accumulator pressure to an accuracy of 0.5 percent full scale. The gage is equipped with a blowout plug and a shatter-proof dial cover.</li> <li>4) Pressure regulator. This is a hand-operated pressure regulator connected to the accumulator to permit manual control of output pressure from zero to 600 psig. Pressurization or depressurization of the unit is accomplished by operation of a single handle.</li> <li>5) Pressure gages. Two gages; in ranges of zero to 60 psi and zero to 600 psi; are connected in parallel across the output side of the pressure regulator. These gages have an accuracy of 0.5 percent full scale and are equipped with blowout plugs and shatter-proof dial covers.</li> <li>6) Needle valves. These valves are connected between the pressure regulator and each pressure gage to permit quick interchange of gages.</li> <li>7) Relief valve. Each gage line contains a relief valve which is set to prevent overpressurization of the gages.</li> </ol>																							
		<p>CONTRACT NO AF 04(647)-370</p> <p>5 mo      7/1/60      OSTF No 1      1      1</p> <p>CONTRACT NO AF 04(647)-346</p> <p>576 C      1</p> <p>567</p> <p>548</p> <p>706</p> <p>549</p> <p>CONTRACT NO AF 04(647)-453</p> <p>OSTF No 2      #</p> <p>CONTRACT NO AF 04(647)-605</p> <p>576 D      2</p> <p>576 E      1</p> <p>550</p> <p>551</p> <p>577</p> <p>578</p> <p>579</p> <p>556</p> <p>ATC</p>																							

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Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 33.4

Page 1 of 2

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV.:

8) Check valves. These valves are located on the output side of the zero to 30-psi and zero to 160-psi gages. These valves are provided to prevent overpressurization of the gages when using the zero to 600-psi gage. A check valve is also installed between the fill connection and the accumulator. The zero to 600-psi gage indicates output pressure at all times.

9) Bleed valve. This valve is located on the output side to permit bleeding of the output line with all needle valves closed.

When operated with the most sensitive gage suitable to the pressure being used, the unit has a maximum gage error, static friction relieved, of not more than 10 percent of actual pressure between 2 psig and 20 psig, and not more than 4 percent between 20 psig and 600 psig.

The pressure gages, regulators, and needle valves are mounted on the upper panel so that the operator can manipulate the controls while carrying the pressurizing unit. A standard connection is provided for filling the accumulator to a working pressure of 600 psig to 800 psig. This connection is located on the upper panel and receives nitrogen from a source up to 2800 psig.

(5) PROBLEM AREA: The telemetry system is a part of the installation at Vandenberg Air Force Base required for the conduct of test launches. Proper functioning of this system is vital in attaining the objectives of the test program.

The telemetry system includes approximately twenty pressure-measuring transducers as well as other types of sensors. These transducers, which indicate pressure increase by voltage increase, are generally used to measure differential pressures or pressures over 100 psig. Checkout of these transducers requires a continuously adjustable source of pressure from 2

psig to 600 psig. The transducers require pressure accuracy of 10 percent from 2 psig to 20 psig, and pressure accuracy of 4 percent from 20 psig to 600 psig. The transducers are so located on the missile that safe operation of the checkout units is of prime importance.

Pressurizing equipment is required which can be used in conjunction with the signal conditioner test set (Item 5065) to pressurize and test transducers and their associated circuitry for proper operation. This pressurization equipment must be:

- 1) Portable
- 2) Safe
- 3) Capable of being filled from a 2800 psig maximum pressure source
- 4) Capable of detecting broken or shorted lines
- 5) Capable of detecting incorrect phasing

In order that connections can be made to transducers under test, a 6 foot long flexible hose with rapidly interchangeable fittings (1/4-inch MS nut, 1/4-inch nut and sleeve, and 1/4-inch AN male fitting) are required.

(18) REMARKS: # The item provisioned for OSTF No. 1 will also support OSTF No. 2.

‡ The Series D item provisioned for complex 576-A will also support complexes 576-C, D, and E.

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO (See Column 7)		REV																								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																			
ITEM SEQUENCE	GSE SPEC PARA NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COST PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																
		CLASS CODE	SERIAL NUMBER	MFG PART OR DWG NUMBER																																						
38.7.0		Spec 27-05704-1 EID-27-3068			INVERTER AIR COOLER FSC NOMENCLATURE: COOLER UNIT, AIR			Est 2,500																																		
																		CONTRACT NO AF 04(647)-370																								
																		CONTRACT NO AF 04(647)-346																								
																				5/24/60		576.C																				
																						567																				
																						548																				
																						706																				
																						549																				
																		CONTRACT NO AF 04(647)-453																								
																		CONTRACT NO AF 04(647)-605																								
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(4) NOMENCLATURE: (PNS) -Inverter Air Cooler.

This mobile air cooler maintains the missileborne inverter at safe operating temperatures during functional tests. The over-all assembly is contained in a mobile cabinet while being checked by the Missile Inverter Test Set (Item 38.7.1). The cooler will operate continuously in an environmental temperature between 40 to 100 degrees F. The unit utilizes the closed system principle to pass 200 cfm of air over the inverter at a temperature not exceeding 70 degrees F. The closed system principle minimizes condensation within the unit, and reduces actual operating time of the cooling unit without lessening its cooling capacity. The cooler requires an input current of approximately 40 amperes from a 120-volt, 60-cycle ac source.

(5) PROBLEM AREA: The inverter can be operated for eight minutes under load without cooling. To properly verify the operational status of the inverter following repair, the inverter must be operated for periods in excess of eight minutes.

Equipment is required which will provide a controlled temperature environment for the inverter during operational tests.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 80-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 38.7.0

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045							
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.					
(1)	(2)	(3) STOCK NUMBER			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)						(8)
ITEM SEQUENCE	GSE SPEC PARA NO	CLASS CODE	SERIAL NUMBER	MFG PART OR DWG. NUMBER	NOMENCLATURE	DESCRIPTION OF PROBLEM OF AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
38.7.1			7-51027-3 EID-27-3072		POWER SUPPLY ANALYZER AND MISSILE INVERTER TEST SET FSC NOMENCLATURE: TEST SET, INVERTER, GUIDED MISSILE		Est 6,700																	
<p>(4) NOMENCLATURE: (PNS) Power Supply Analyzer and Missile Inverter Test Set.</p> <p>This unit is a mobile four-wheeled test set measuring approximately 33 inches deep, 46 inches wide, and 60 inches high. The set is used to measure electrical characteristics of the missile inverter operating under a variety of conditions. The test set is used in conjunction with the inverter air cooler (Item 38.7.0) during operation.</p> <p>The assembly comprises the following principal components:</p> <ol style="list-style-type: none"> <li>1) Resistive load</li> <li>2) Reactive load</li> <li>3) Control panel</li> <li>4) Distortion meter</li> <li>5) Frequency meter</li> <li>6) Circuit breaker and power panels</li> </ol> <p>This equipment is designed to meet the following specifications:</p> <ol style="list-style-type: none"> <li>1) Measurements:</li> </ol>						<ol style="list-style-type: none"> <li>a) Line to neutral voltage, 115-volt plus or minus 1 percent</li> <li>b) Voltage unbalance to within plus or minus 2 percent</li> <li>c) Frequency over a range of from 375 to 425 cps with an accuracy of plus or minus 0.1 cps.</li> <li>d) Wave form, total harmonics up to 5 percent maximum</li> <li>e) Phase rotation (order specified by indicator light)</li> <li>f) DC voltage of 27-1/2 volts plus or minus 1-1/2 volts (inverter supply plus or minus 5 percent)</li> <li>g) This analyzer must measure load currents with an accuracy of plus or minus 1 percent and dc current with an accuracy of plus or minus 2 percent.</li> </ol>																		

By Air Force direction.

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 38.7.1

Page 1 of 2

## USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV.:

## 2) Power requirement:

- a) 115-volt, 60 cps, 300-watt
- b) 32 direct-current volts, 220 amperes

## 3) Regulation

- a) Balanced resistive load, variable from 50 to 100 percent of the rated inverter load
- b) Balanced reactive loads, 3000 volt-ampere inverter
- c) Overload, 10 percent of full resistive load selectively applied to any phase.

(5) PROBLEM AREA: The missileborne battery inverter transforms 28-volt dc power from the main missile battery to 115/200-volt, 400-cycle, 3-phase ac power for utilization during flight by missile subsystems.

Equipment is required to verify proper operation of the inverter and isolate faults on the component maintenance level.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

This item is used in conjunction with item 38.7.0 whenever the inverter is run more than eight minutes under load.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F														DATE: 22 December 1961			LIST NUMBER: AP60-1045																																						
SM-65		ASTRONAUTICS												A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.:																																
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																																
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MMMS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																													
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																																			
39.8.0		27-43205-1			CHECKOUT UNIT, PROPELLANT UTILIZATION SYSTEM, MATCHING		Est 15,000			CFE																																													
																		CONTRACT NO. AF 04(647)-680																																					
																		CONTRACT NO. AF 04(647)-694																																					
																		OSTF No. 1																																					
																		576-C																																					
																		567																																					
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																		CONTRACT NO. AF 04(647)-453																																					
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(4) NOMENCLATURE: (PNS) Checkout Unit, Propellant Utilization System, Matching.

This checkout unit is designed to perform calibration checks on the propellant utilization system manometers. The checkout unit comprises a hose-stand assembly, a test console which contains two master manometers, four pneumatic hoses, two power-input cables, and two instrumentation harnesses.

The hose-stand assembly is a tripod-shaped structure fabricated from tubular aluminum. This assembly is fitted with shelves at various levels and is designed to provide a mount for the missileborne manometers and catch tanks. The assembly measures approximately 16 inches wide and 62 inches high.

The test console is subdivided into three cabinets measuring, from left to right, approximately 24 inches, 36 inches, and 62 inches high respectively. Overall, the console measures approximately 74 inches wide, 22 inches deep, 62 inches high, and weighs approximately 600 pounds. A ducting space approximately 4 inches deep around the ends and back of the

console provide space for routing harnesses and pneumatic tubing, and for mounting control valves and electrical switches. A modified shelf attached to the left-hand of the console holds an electronic computer-comparator canister. The left-hand cabinet provides storage space behind the front panel for test hoses and cables. A mount is provided on the cabinet top for a precision mercury manometer. The center cabinet, except for height, is similar to the left-hand cabinet. The right-hand cabinet contains a digital voltmeter, a pneumatic control and gage panel, a writing shelf, and a regulator panel.

Operation of the test console requires inputs of 2000 psi of gaseous nitrogen from a standard K-bottle; and 115-volt, 60-cycle, single-phase-A and 115-volt, 400-cycle, single-phase-B ac power. The 2000 psi input of gaseous nitrogen is regulated to 60 psi and then further regulated into two outputs of 8.0 psi and 18.5 psi respectively. The 8.0 psi gaseous nitrogen is routed through valves to the liquid oxygen system manometer and to one of the master manometers. The 18.5 psi gaseous nitrogen is routed through valves to the fuel system manometer and to the other master manometer.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity



Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 39.8.0

## USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 December 1961

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV :

The 60-cycle power is used to illuminate the two master manometers and supply power to the digital voltmeter. The 400-cycle power is routed to the control canister which is connected to the missileborne manometers. Error signals appear as voltage inputs and are read on the digital voltmeter.

The pneumatic hoses connect the manometers to the test console. The electrical harnesses connect the control canister to the console.

(5) PROBLEM AREA: Satisfactory operation of the missileborne propellant utilization systems depends upon accurate calibration of the missileborne fuel and liquid oxygen manometers. The present method of calibration and matching of propellant utilization manometers is unsatisfactory due to the large amount of equipment required, inaccuracy, lack of highly trained technicians, and the need to constantly check the test equipment for error.

Equipment is required which will facilitate this calibration. The equipment supplied must:

- 1) Be highly accurate
- 2) Require little maintenance
- 3) Be simple to operate

(18) REMARKS: This item is similar to TET 3035.

§ This item is documented for the depot in Report No. ZM-7-357.

25

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE 22 April 1961		LIST NUMBER: AP60-1045																		
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO (See Column 7)		REV																	
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)													
ITEM SEQUENCE	GSE SPEC PARA NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF R&D APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER									
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																															
39.10		27-60414-1			SENSOR SIMULATOR UNIT, PROPELLANT LOADING LEVEL		Est 6,000	5178-011																											
					<i>4935-873-4349AC</i>																														
(4) NOMENCLATURE: Preferred - Sensor Simulator, Propellant Loading Level.					Equipment is required which will troubleshoot and validate the operational readiness of the liquid oxygen loading control system. The equipment must be capable of:																														
This simulator is designed to aid operational checkout of the umbilical cable and the propellant level panel located in relay logic unit number one of the control monitor group (Item 5035), during systems testing. The simulator is housed in a standard portable case which contains switches, calibrated variable potentiometers, fixed resistors, associated hardware, and the necessary cabling and plugs for connection to the interconnecting box for the umbilical cable (Item 5100). The switches connect the potentiometers and fixed resistors in the test circuits and the propellant loading level control, in proper sequence. This simulates the dry and wet resistances of the "A" and "B" sections of the four liquid oxygen sensors installed in the liquid oxygen tank of the missile.					<ol style="list-style-type: none"> <li>checking the umbilical cable circuits.</li> <li>checking the operation of the propellant level panel.</li> <li>simulating wet and dry resistances of the platinum wire sensors. The simulated resistances must precisely represent those present at the sensors during liquid oxygen loading.</li> </ol>																														
(5) PROBLEM AREA: The missileborne propellant level sensors are "hot wire" types which indicate the level of liquid oxygen in the tank. Umbilical cables connect the sensors to the propellant level panel. The panel converts signals from the sensors to signals which control the rate of flow of fuel, liquid oxygen, liquid oxygen topping, and 100 percent liquid oxygen cutoff, during countdown. The sensors provide control signals at predetermined tank levels.					<p>(18) REMARKS: This item is similar to item 39.10 in ZM-7-357.</p> <p>The item number was changed from 5124 when its effectivity was extended to Series D.</p> <p>‡ The unit provisioned for complex 576C supports requirements at 576D and E, and OSTF No. 1 and No. 2.</p>																														
																		CONTRACT NO AF 04(647)-370		OSTF No. 1															
																		CONTRACT NO AF 04(647)-346				8 mo		3/2/61		4/15/61		576 C		1		1			
																												567		1		1			
																												548		1		1			
																												706		1		1			
																												549							
																		CONTRACT NO AF 04(647)-453		OSTF No. 2															
																		CONTRACT NO AF 04(647)-605										576-D							
																												576-E							
																														550		1		1	
																														551		1		1	
																														577		1		1	
																														578		1		1	
																														579		1		1	
																														556		1		1	
																														ATC					

By Air Force direction:

- Part or specification number listed in column 3 is the number proposed for original provisioning.
  - Recommended quantities only are listed in column 7.
  - This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 39.10



USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961		LIST NUMBER: AP60-1045																													
5M-65		CONVAIR-ASTRONAUTICS			CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION						SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV																														
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	17				(8)																							
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	PROPOSED SUPPLY SOURCE	COGNIZANT LABORATORY, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICCS	AT GUID STAS	AT SMA	GENERAL	% DEPOT	SUB TOTAL	TOTAL ON ORDER																			
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																									
42.3		27-51154-3			TEST ACCESSORY, IRSS ARM SWITCH		Est 1,500																																						
		EID-27-3032			FSC NOMENCLATURE: ADAPTER, TEST																																								
					<p>(4) NOMENCLATURE: (PNS) Test Accessory, Instrumentation and Range Safety System Arm Switch. This unit is contained in a steel case that measures approximately 18 inches long, 12 inches wide, and 12 inches high. The unit has a sloping front and weighs approximately 25 pounds.</p> <p>This test accessory provides a means of connecting an arm switch to all the standard test equipment listed in the problem area, simultaneously, and of adjusting a 28-volt dc input of 1 ampere to the switch accurately (all hot tests are conducted with these input values). This unit permits various tests to be made on the arm switch consecutively without having to disconnect the test setup. The tests are selected by means of a 24-position selector switch.</p> <p>The unit itself requires approximately 4 amperes current at 28 volts dc, and comprises the following:</p> <ol style="list-style-type: none"> <li>1) Steel case.</li> <li>2) Wafer switch - 12-pole, 24-position.</li> <li>3) Miscellaneous power resistors and toggle switches.</li> <li>4) Cables for power input.</li> <li>5) Cables to connect the test accessory to the arm switch.</li> </ol> <p>(5) PROBLEM AREA: The instrumentation and range safety system (IRSS) is a part of the installation at Vandenberg Air Force Base required to conduct combat training and test launches. The missileborne range safety (command destruct) system consists of:</p> <ol style="list-style-type: none"> <li>1) Two GFP modified ARW-62 command receivers.</li> <li>2) Two antennas (also used by the telemetry system).</li> <li>3) One ring coupler.</li> <li>4) Coaxial cables connecting the receivers and antennas.</li> <li>5) Two on-off switching units.</li> <li>6) Safety and arming device.</li> <li>7) One 28-volt battery which powers one GFP ARW-62 receiver. (This battery also furnishes power to other systems).</li> <li>8) One GFP battery which powers the GFP telemeter, one GFP ARW-62 receiver, and provides one-half ampere current for telemetry transducer excitation and signal conditioning.</li> <li>9) One destruct package.</li> <li>10) Interconnecting cables and wiring harnesses.</li> <li>11) Mounting bracketry.</li> </ol> <p>The ground station of the IRSS uses the carrier wave of the telemetry system to determine the instantaneous location of the missile. The ground station then processes this location information in the impact predictor system which computes the progressive impact points which would result if all</p>										CONTRACT NO AF 04(647)-370																														
																		OSTF No. 1																											
																		CONTRACT NO AF 04(647)-346																											
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By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity



Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER 42.3

Use Current List of Effective Pages as guide for inserting Revision Pages.

Page 1 of 2

## USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

propulsion were cut off at corresponding progressive instants during powered flight. If the course of the missile is unsatisfactory, the range safety officer can destroy the missile through the range safety system. The missileborne range safety system, upon receipt of a destruct signal from the ground transmitter, actuates the arm switch thereby causing the destruct package to destroy the missile.

The following tests are required to check out and/or repair an arm switch:

- 1) Measure contact resistance - not more than 50 milliohms with one ampere current flowing through the contacts.
- 2) Check minimum operating voltages of the change over switch and the K-3 and K-4 relays - not more than 20 volts dc.
- 3) Check arming switch operating time - not more than 0.5 second.
- 4) Measure K-3 and K-4 coil resistance - 475 ohms plus or minus 20 percent.
- 5) Measure arming switch coil resistance - 12.5 ohms plus or minus 20 percent.
- 6) Check continuity.
- 7) Check make-before-break operation of the arming switch contacts.
- 8) Measure operating time of K-3 and K-4 relays.
- 9) Measure insulation resistance - 10 megohms or greater.

The following items of standard commercial equipment are required in order to perform the tests indicated above.

For check out of arm switch:

- 1) Digital Voltmeter - Non Linear Systems model 451 or equivalent. To measure contact resistance.

- 2) Ammeter - Weston model 931 or equivalent. To measure one ampere of current.
- 3) Multimeter - Simpson model 260 or equivalent to make continuity test and measure coil resistance.
- 4) Test leads.

For repair of arm switch.

- 1) Oscilloscope - Dumont model 401 or equivalent. To measure make-before-break characteristics of the arm switch.
- 2) Counter - Hewlett Packard model 522B or equivalent. To measure relay opening time.
- 3) Megohm bridge - General Radio Co. model 544B or equivalent. To measure insulation resistance.

## NOTE

The megohm bridge is not connected through the test accessory.

A device is required which will permit making the above tests quickly and easily without the necessity of making a separate test setup for each test. The device must be capable of selecting the test required and of supplying the arm switch being tested with 1 ampere current at 28 volts dc. This device must serve as a junction point for test leads from the above mentioned commercial test equipment and the arm switch being tested.

(18) REMARKS: #The item provisioned for OSTF No. 1 will also support OSTF No. 2.

‡ The Series D item provisioned for complex 576-A will also support complexes 576-C, D and E.

§ This item is documented for the depot in Report No. ZM-7-357.

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961			LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS											CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL			CONTRACT NO (See Column 7)		REV					
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(17)					(8)			
ITEM SEQUENCE	GSE SPEC PARA. NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SWA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
44,6		27-38006-1			ELECTRO-MECHANICAL/RELAY CHECKOUT UNIT		Est																			
		EID-27-3027			FSC NOMENCLATURE: TEST SET GROUP		33,000																			
(4) NOMENCLATURE: (PNS) Electro-Mechanical/Relay Checkout Unit.					1) A capacity of up to 200 test positions with 150 connections for energizing external devices.										CONTRACT NO AF 04(647)-370											
This unit consists of a desk-type bench and functional tester. The bench which measures approximately 70 inches wide, 51 inches high, and has an overall depth of 30 inches, weighs approximately 300 pounds. The functional tester has an overall width of approximately 40 inches, a height of 26 inches, and a depth of 24 inches. The weight of the tester is 348 pounds.					2) A self-controlled timer which can be switched to measure time delay constants to 1/5 second for a period totaling 60 minutes. The accuracy of the timer is 0.1 second per operation at 60-cycles.										CONTRACT NO AF 04(647)-346											
															12 mo 8/29/59 5/25/60					576 C						
																				567						
																				548						
																				706						
This unit provides a working surface equipped with the following facilities:  1) An automatic functional tester (Dit-MCO, Model 250-F) 2) Power control panel which provides: a) 115-volt, 400 cycle, single-phase ac b) 115-volt, 60-cycle, single-phase ac c) 28-volt dc 3) Connector panels which provide for circuit distribution for the modules under test					3) A separate relay energizing circuit that operates external devices independently of the main test circuit.										CONTRACT NO AF 04(647)-453											
																				OSTF No. 2						
																				CONTRACT NO AF 04(647)-605						
																				576-D						
																				576-E						
The functional tester provides a means for accurately testing complex relay systems, switches, and timers in the ground operational equipment (GOE) and ground support equipment (GSE). The tester has the following characteristics:  1) Adapter cables 2) Programming plug boards 3) Matrix charts					4) The functional tester operates in conjunction with a programmer kit (Item 5024). Input power requirements are: 1) 115-volt, 400-cps, single-phase, 5 amperes 2) 115-volt, 60 cps, single-phase, 15 amperes 3) 27.5-volt dc, 5 amperes  The programming kit (Item 5024) which is not included as a part of this item operates in conjunction with the functional tester. This programming kit consists of the following units:										CONTRACT NO AF 04(647)-605											
															12 mo 1/22/60					550						
																				551						
																				577						
																				578						
										579																
										556																
										ATC																

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER 44,6

Use Current List of Effective Pages as guide for inserting Revision Pages

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7)	REV.

The adapter cables provide quick connections between the part under test and the functional tester.

The plug boards facilitate the use of simple adapter cables. Test circuit modifications are made by rejumping the boards.

The matrix chart, mounted on the functional tester directly in front of the operator, provides a complete record of test circuits, test specifications, and instructions and results.

(5) PROBLEM AREA: GOE and GSE components must be checked out periodically, operational readiness of spares must be verified, and faults must be isolated in components which have failed.

Equipment is needed that can be automatically programmed to perform these tasks rapidly and accurately on complex relay systems, switches, and timers, in the ground operational equipment and ground support equipment.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the E Series requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.



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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7)	REV.:
<p>Equipment is required with which to locate faults in the module boards. Measurements required to check the module boards include functions such as rise time, pulse width, pulse amplitude, and voltages.</p> <p>(18) REMARKS: † The Series E item provisioned for the 706SSS will support Series D requirements at complexes 564 and 565.</p> <p>‡ The item provisioned for complex 576-C will support complexes 576-A, B, D, and E, and OSTF No. 1 and No. 2.</p> <p>§ This item is documented for the depot in Report No. ZM-7-357.</p>					

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.									
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	IN DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
46.1		27-41893-1			ADAPTER KIT, MODULE TEST	Est 18,450 †																			
		EID-27-3066			FSC NOMENCLATURE: ADAPTER SET, TEST	12,600 ‖																			
(4) NOMENCLATURE: (PNS) Preferred - Adapter Kit, Module Test.					(18) REMARKS: This item is used with item 46.																				
This adapter kit comprises the separate adapter units used for connecting the various module boards used in APChE and launch control equipment with the module board tester (item 46). Each adapter has the wiring, resistors, switches, etc necessary to adapt and connect the specific board under test to the tester. These adapters are designed to prevent accidental board burn-out during test and reduce manual manipulations of tester controls.					† The kits provisioned for complex 576-C, 706 SSS, and the depot include all the adapters required to fit Series D, E, and F equipment.																				
(5) PROBLEM AREA: Many types of module boards comprising relays, diodes, pulse oscillators, and amplifiers are used in the APChE checkout units and launch control equipment. These boards have precise operational characteristics requiring precision testing of the circuits.					‖ The kits provisioned for 567 SMS, 548 SMS, 550 SMS and on include only the adapters required to fit Series E and F equipment.																				
Equipment is required which will convert module board pin numbers to the appropriate tester pin numbers so that the board pin numbers can be connected to the proper tester circuits. The equipment supplied must be designed so that it can be used to adapt the tester not only to the present boards but to any new board configuration which may be developed later.					¶ The kit provisioned for the 706 SSS under the -346 contract supports Series D requirements of the 564 SMS and the 565 SMS.																				
					§ The kit provisioned for the depot under the -346 contract supports Series D, E, and F requirements.																				
					‡ The kit provisioned for complex 576-C supports the Series D requirement at complexes 576-A and 576-B, and the Series E and F requirements at complexes 576 D and E and at OSTF No. 1 and No. 2.																				
																	CONTRACT NO. AF 04(647)-370								
																	OSTF No. 1								
																	CONTRACT NO. AF 04(647)-346								
																	576-C		1	1	2				
																	567		1		1				
																	548		1		1				
																	706		1		1				
																	549		*						
																	CONTRACT NO. AF 04(647)-453								
																	OSTF No. 2								
																	CONTRACT NO. AF 04(647)-605								
																	576-D		1						
																	576-E		1						
																	550		1		1				
																	551		1		1				
																	577		1		1				
																	578		1		1				
																	579		1		1				
																	556		1		1				
																	ATC								

By Air Force direction:  
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 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER. 46.1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:																								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																						
62		Aerojet General F-AFC-0285 EID-27-5130			TELEMETERING CHECKOUT, MOBILE, IRSS																																					
																	CONTRACT NO. AF 04(647)-370																									
																	OSTF No. 1																									
																	CONTRACT NO. AF 04(647)-346																									
																					11/13/59	8/24/60	576-C																			
																							567																			
																							548																			
																							706																			
																							549																			
																	CONTRACT NO. AF 04(647)-453																									
																	OSTF No. 2																									
																	CONTRACT NO. AF 04(647)-605																									
																							576-D																			
																							576-E																			
																							550																			
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																							577																			
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																							579																			
																							556																			
																							ATC																			

(4) NOMENCLATURE: (PNS) Telemetry Checkout, Mobile IRSS.

This government-furnished AFS mobile unit is designed to perform the following functions:

- 1) Checkout of the range safety (command destruct installation at the SMA).
- 2) Checkout of the telemetry system (instrumentation) at the SMA.
- 3) Radiation tests at the launcher. In these tests, the GFP telemeter RF package is excited. The telemetry system is required to pass radiation tests for frequency and radiation power only.
- 4) Component check of the GFP telemeter RF package.

The IRSS checkout station furnishes 28-volt dc power to the missileborne IRSS until just prior to launch. At this time, power is switched to the missileborne batteries. The contractor-furnished antenna test coupler kit (Item 5068) is used with this mobile unit for testing the IRSS at the launcher and SMA.

The IRSS checkout station also includes a battery simulator. This simulator is used when performing IRSS

battery actuated circuitry checkout during IRSS testing at the launcher.

(5) PROBLEM AREA: The telemetry and range safety (command destruct) systems are a part of the installation at Vandenberg Air Force Base required for the conduct of combat training launches. Proper functioning of these systems is vital in attaining the objectives of the combat training launch program.

The telemetry system includes a telemeter package, a signal conditioner and power control package, transducers, mounting bracketry, interconnecting cables, and a battery which also provides the power for one range safety receiver. The telemetry and range safety antennas are combined.

The telemeter package (GFP) is a small, ruggedly constructed missileborne system. This system is capable of accepting data inputs from a variety of transducers; translating these data quantities into a signal form compatible with the FM/FM telemetry section of the interrange instrumentation group (IRIG) document No. 103-56, Telemetry Standards, dated 9 October 1956; and providing the facility necessary for transmission of these signals. Certain operational frequencies are the sole exceptions to the document above.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 62

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7)	REV.:
<p>Seven voltage-controlled, subcarrier oscillators are used. Provisions are made for time division multiplexing (PAN/FM/FM) two of these channels. The equipment is capable of meeting all performance requirements with a signal level of zero to 5-volts dc at a maximum source impedance of 100 kilohms.</p> <p>Approximately 46 telemetry measurements are used to provide maximum information with minimum complication of operation and installation. Twenty potentiometer type transducers and their associated hardware are installed to monitor key points in the propulsion and autopilot systems. Six amplifier-demodulator units are required to condition the signals created by measurements originating in the autopilot system. In general, signals from the remaining measurements are occurrence indications of certain specific events within the missile systems.</p> <p>The missileborne range safety (command destruct) system consists of:</p> <ol style="list-style-type: none"> <li>1) Two GFP modified ARW-62 command receivers</li> <li>2) Two antennas (also used by the telemetry system)</li> <li>3) One ring coupler</li> <li>4) Coaxial cables connecting the receivers and antennas</li> <li>5) Two ON-OFF switching units</li> <li>6) Safety and arming devices</li> <li>7) One 28-volt battery which powers one GFP ARW-62 receiver. (This battery also furnishes power to other systems)</li> <li>8) One GFP battery which powers the GFP telemeter, one GFP ARW-62 receiver, and provides one-half</li> </ol>	<p>ampere for telemetry transducer excitation and signal conditioning.</p> <ol style="list-style-type: none"> <li>9) One destruct package</li> <li>10) Interconnecting cables and wiring harnesses</li> <li>11) Mounting bracketry</li> </ol> <p>The range safety system receives the destruct signal from a ground based transmitter. The ground station uses the carrier wave of the telemetry system to determine the location of the missile. The ground station then processes this location information in the impact predictor system which computes the progressive impact points which would result if all propulsion were cut off at corresponding progressive instants during powered flight. If the course of the missile is unsatisfactory the range safety officer can elect to destroy the missile through the range safety system.</p> <p>The antenna system, coaxial cable, interconnecting cable harnesses, switching provisions, transducers, signal conditioning circuitry, and all mounting bracketry are contractor furnished.</p> <p>The GFP battery has sufficient capacity to power the GFP telemeter, one GFP range safety receiver and its associated functions, and to provide one-half ampere at 28 volts (<math>\pm 2</math> volts) dc for transducer excitation and signal conditioning. The battery is of the instant-activated type and is activated and controlled from equipment (Item 5030) located inside the blockhouse and alongside the launch control consoles.</p> <p>Equipment is required which can be used to perform component and system checkout of the missileborne instrumentation and range safety systems.</p> <p>(18) REMARKS: † This unit is to be obtained from the 576 SMS instrumentation section on an "as needed" basis to support complexes 576-C, D, and E, and OSTF No. 1 and No. 2.</p>				



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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7)	REV.:
<p>3) One ring coupler.</p> <p>4) Coaxial cables connecting the receivers and antennas.</p> <p>5) Two "On-Off" switching units.</p> <p>6) Safety and arming devices.</p> <p>7) One 28-volt battery which powers one GFP ARW-62 receiver. (This battery also furnishes power to the other systems.)</p> <p>8) One GFP battery which powers the GFP tele-meter, one GFP ARW-62 receiver, and provides one-half ampere for telemetry transducer excitation and signal conditioning.</p> <p>9) One destruct package.</p> <p>10) Interconnecting cables and wiring harnesses.</p> <p>11) Mounting bracketry.</p> <p>The range safety system receives the destruct signal from a ground based transmitter. The ground station uses the carrier wave of the telemetry system to determine the location of the missile. The ground station then processes this location information in the impact predictor system which computes the progressive impact points which would result if all propulsion were cut off at corresponding progressive instants during powered flight. If the course of the missile is unsatisfactory, the range safety officer can elect to destroy the missile through the range safety system.</p> <p>Test equipment is required which can be substituted for the destruct package during checkout, countdown, and static firing. This unit must be suitable for mounting in place of the destruct package and be capable of withstanding the environmental effects of static firings. The equipment must be capable of performing the following tests:</p> <p>1) Test the capability of the primer actuation circuits of command receiver number 1 and number 2 to blow a 1.5-ampere fuse in series with a</p>	<p>resistor, and indicate when the fuse blows, The current required to blow this 1.5-ampere fuse is greater than the current required to blow the squib for which this fuse is substituted.</p> <p>2) Check to determine whether stray currents which might be present on the primer line are sufficient to blow a 60-milliampere (1/16 ampere) fuse. Stray currents greater than 62.5 milliampere (1/16 ampere) will detonate the squib for which the fuse is substituted. The destructor must not be installed if the fuse blows. The primer actuation circuits shall not have stray currents sufficient to blow the fuse.</p> <p>3) Check the operation of arm-safe circuitry and provide lamp indications of arm-safe status.</p> <p>4) Measure the voltage between each connector pin and the ground pin prior to installation of the destructor box to ensure safe operation.</p> <p>5) Measure the resistance of the short across the primer circuit in safe configuration.</p> <p>6) Check proper battery charge by measuring the destruct voltage.</p> <p>(18) REMARKS: †The item provisioned for OSTF No. 1 will also support OSTF No. 2.</p> <p>‡ The item provisioned for complex 576-C will also support complexes 576-D and E.</p>				

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL		CONTRACT NO (See Column 7)		REV																					
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICCS	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER													
		CLASS CODE	SERIAL NUMBER	MFG PART OR DWG. NUMBER																																			
62.1.5		27-51297-3			IRSS BATTERY		Est.																																
		EID-27-5086			SQUIB SUBSTITUTION BOX		75																																
					FSC NOMENCLATURE: DUMMY BATTERY																																		
<p>(4) NOMENCLATURE: (PNS) IRSS (Instrumentation and Range Safety System) Battery Squib Substitution Box.</p> <p>This unit is substituted for the missileborne (GFP) telemetering battery during checkout of the IRSS system at the SMA and at the launcher. This unit includes a fuse, switch, indicator light, connector, cable, and metal case. When installed in the metal case, the unit measures approximately 6 inches long, 2-1/2 inches wide, 2-1/2 inches high, and weighs approximately one-half pound.</p> <p>(5) PROBLEM AREA: The telemetry and range safety (command destruct) systems are a part of the installation at Vandenberg Air Force Base required for combat training and test launches. Proper functioning of these systems is vital in attaining the objectives of the combat training program.</p> <p>The telemetry system includes a telemeter package, a signal conditioner and power-control package, transducers, mounting bracketry, interconnecting cables, and a battery which provides the power for</p>					<p>one range safety receiver. The telemetry and range safety antennas are combined.</p> <p>The telemeter package, Government furnished (GFP), is a small ruggedly constructed missileborne system. This system is capable of accepting data inputs from a variety of transducers; translating these data quantities into a signal form compatible with the FM/FM telemetry section of the Interrange Instrumentation Group (IRIG) document No. 103-56, Telemetry Standards, dated 9 October 1956; and providing the facility necessary for transmission of these signals. Certain operational frequencies are the sole exception to the document above.</p> <p>Seven voltage-controlled, subcarrier oscillators are used. Provision is made for time division multiplexing (PAM/FM/FM) two of these channels.</p> <p>The equipment is capable of meeting all performance requirements with a signal level of zero to 5-volts dc at a maximum source impedance of 100 kilohms.</p> <p>Approximately 46 telemetry measurements are used to provide maximum information with minimum</p>										<p>CONTRACT NO AF 04(647)-370</p> <p>OSTF No. 1</p>					<p>CONTRACT NO AF 04(647)-346</p> <p>9/25/59 6/21/60</p> <p>576 C * 1 1</p> <p>567</p> <p>548</p> <p>706</p> <p>549</p>					<p>CONTRACT NO AF 04(647)-453</p> <p>OSTF No. 2</p>					<p>CONTRACT NO AF 04(647)-605</p> <p>576 D * 1</p> <p>576 E * 1</p> <p>550</p> <p>551</p> <p>577</p> <p>578</p> <p>579</p> <p>556</p>					<p>ATC</p>				

By Air Force direction:

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  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 62.1.5

## USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

complication of operation and installation. Twenty potentiometer-type transducers and their associated hardware are installed to monitor key points in the propulsion and autopilot systems. Six amplifier-demodulator units are required to condition the signals created by measurements originating in the autopilot system. In general, signals from the remaining measurements are occurrence indications of certain specific events within the missile system.

The missileborne range safety (command-destruct system) consists of:

- 1) Two GFP modified ARW-62 command receivers.
- 2) Two antennas (also used by the telemetry system).
- 3) One ring coupler.
- 4) Coaxial cables connecting the receivers and antennas.
- 5) Two "ON-OFF" switching units.
- 6) Safety and arming devices.
- 7) One 28-volt battery which powers one GFP ARW-62 receiver. (This battery also furnishes power to other systems.)
- 8) One GFP battery which powers the GFP telemeter, one GFP ARW-62 receiver, and provides one-half ampere for telemetry transducer excitation and signal conditioning.
- 9) One destruct package.
- 10) Interconnect cables and wiring harnesses.
- 11) Mounting bracketry.

The range safety system receives the destruct signal from the ground based transmitter. The ground station uses the carrier wave of the telemetry system to determine the location of the missile. The ground station then processes this location information in the impact predictor system which computes the progressive impact points which would result if all propulsion were cut off at corresponding progressive instants during powered flight. If the course of the missile is unsatisfactory, the range safety officer can elect to destroy the missile through the range safety system.

The antenna system, coaxial cable, interconnecting cable harnesses, switching provisions, transducers, signal conditioning circuitry, and all mounting bracketry are contractor furnished.

The GFP battery has sufficient capacity to power the GFP telemeter, one GFP range safety receiver and its associated functions, and to provide one-half ampere at 28-volts (plus or minus 2 volts) dc for transducer excitation and signal conditioning. The battery is of the instant-activated type and is activated and controlled from equipment (Item 5030) located inside the blockhouse and alongside the launch control console.

A unit of equipment which can be substituted for the instant-activated battery (GFP) is required at the SMA. This unit will be used to determine the capability of the operation and checkout unit (Item 5030) and associated missile circuitry and to energize the battery when the missile is mounted in the launcher.

The mobile IRSS checkout station (Item 62) GFP contains a checkout unit which is used at the launch control center and/or SMA for IRSS checkout. The equipment provided must supply a means of indicating that a proper battery activating signal has been received from the IRSS checkout station, and that the battery low-pressure indicating circuit is operating properly. After proper indications are

received, the unit must permit power from the signal conditioner test set to pass through and simulate the battery.

The unit of equipment provided is also required for use at the launcher during checkout of the operation and checkout unit (Item 5030) and of the IRSS cabling, including the umbilical, between the blockhouse and the launcher.

(18) REMARKS: #The item provisioned for OSTF No. 1 will also support OSTF No. 2.

† The item provisioned for complex 576-C will also support complexes 576-D and E.

‡ Unit reallocated from OSTF No. 2 to complex 576-C per Provisioning Conference action 28 Nov. 1960.

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:					
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)	
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																				
62.1.9		27-53843-1			DESTRUCT PACKAGE CHECKOUT KIT	Est 360					CFE													
		EID-27-3070			FSC NOMENCLATURE: TEST SET, MISSILE DESTRUCTOR																			
		<p>(4) NOMENCLATURE: (PNS) Destruct Package Checkout Kit.</p> <p>This item comprises the following components used for checking out the destruct package:</p> <ol style="list-style-type: none"> <li>1) Power supply (28-volt dc)</li> <li>2) Low range ohmmeter (AFS)</li> <li>3) High range ohmmeter (AFS)</li> <li>4) Timer</li> <li>5) Adapter Cables</li> </ol> <p>The power supply and timer are an integral unit installed in a box to which the adapter cables are attached. The box plugs into a 115-volt ac source.</p> <p>(5) PROBLEM AREA: The destruct package must be checked out prior to installation in a missile.</p> <p>Equipment is required to accomplish this checkout.</p> <p>(18) REMARKS: † The Series D item provisioned for complex 576-B will also support complexes 576-C, D and E, and OSTF No. 1 and No. 2.</p>																						
																CONTRACT NO. AF 04(647)-370								
																OSTF No. 1								
																CONTRACT NO. AF 04(647)-346								
																576-C								
																5/24/60								
																567								
																548								
																706								
																549								
																CONTRACT NO. AF 04(647)-453								
																OSTF No. 2								
																CONTRACT NO. AF 04(647)-605								
																576-D								
																576-E								
																550								
																551								
																577								
																578								
																579								
																556								
																ATC								

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 62.1.9

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONTRACT NO.		REV.														
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.										(See Column 7)																
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)					
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																								
76		Christie Electric Corp.	BS41-75K24	CV-A 86-21900-020	EID-27-6032	POWER SUPPLY, RECTIFIER, MISSILE TESTING, (BATTERY CHARGER)	Est 2,000				CFE																	
(4) NOMENCLATURE: (PNS) Power Supply Rectifier. Missile Testing. (Battery Charger).					(18) REMARKS: This item is the same as item 76 in Report No. ZM-7-357.					<p>‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.</p>																		
This equipment measures approximately 22 inches wide, 18 inches deep, 30 inches high, and weighs a maximum of 320 pounds. The unit is located in the SMA. This unit is built to MIL-P-19421A specifications and has the following electrical characteristics:																												
1) Input: 208/440-volt (±10 percent), 60-cps (+5 percent), 3-phase ac.																												
2) Output: Fixed values of 27.2 volts, 33.6 volts, 35 volts, and 37.4 volts (±1 volt) dc. Continuously adjustable voltages from 26 volts to 40 volts dc.																												
3) Amperes Output: Continuous duty at 50-amperes load and intermittent duty up to 200 amperes, automatic current limiting when battery is fully discharged.																												
4) Rectifier Element: Metallic plate type silicon.																												
(5) PROBLEM AREA: Equipment is required which can be used for charging the emergency dc power (27.6-volt) nickel-cadmium battery assembly.																												
																CONTRACT NO. AF 04(647)-370												
																OSTF No. 1												
																CONTRACT NO. AF 04(647)-346												
																6 mo.	8/28/59	5/25/60	576-C				1					1
																			567				1					1
																			548				1					1
																			706				1					1
																			549				*					
																CONTRACT NO. AF 04(647)-453												
																OSTF No. 2												
																CONTRACT NO. AF 04(647)-605												
																			576-D				‡					
																			576-E				‡					
																6 mo.	1/22/60		550				1					1
																			551				1					1
																			577				1					1
																			578				1					1
																			579				1					1
																			556				1					1
																			ATC									

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 76

Page 1 of 1

USAF WE \* PON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO (See Column 7)		REV																			
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)																				
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																									
78		Coleman Engineering Co., Inc. 43600-1 Model DL-300 Spec 27-06129-1 EID-27-6033			DUMMY LOAD, ELECTRICAL		Est 2,330						CFE																																
																		CONTRACT NO. AF 04(647)-370																											
																		OSTF No. 1																											
																		CONTRACT NO. AF 04(647)-346																											
																		7 mo	7/10/59	5/3/60	576 C																								
																					567																								
																					548																								
																					706																								
																					549																								
																		CONTRACT NO. AF 04(647)-453																											
																		OSTF No. 2																											
																		CONTRACT NO. AF 04(647)-605																											
																					576-D																								
																					576 E																								
																		7 mo	1/22/60		550																								
																					551																								
																					577																								
																					578																								
																					579																								
																					556																								
																		ATC	T-306 share with T-330 (1) T-349 (1)																										

(4) NOMENCLATURE: (PNS) Dummy Load, Electrical.

This unit is enclosed in a mobile cabinet that measures approximately 24 inches wide, 40 inches deep (over handle), and 54 inches high. It weighs approximately 250 pounds.

This unit provides an adjustable load for the NICAD emergency battery assembly. Facilities are included for monitoring battery current (1 to 300 amperes), overall battery voltage (20 to 35 volts), and battery cell voltage, during a timed discharge of the NICAD battery.

Cables supplied with this dummy load consist of two dc monitoring cables, one multiconductor cable for monitoring of individual cells, and one permanently attached input cable.

This unit is protected by an adjustable relay which prevents overdischarge of batteries (minimum of one volt per cell) and fuses for the 120-volt ac and the 28-volt dc input lines. The unit is fan cooled.

This dummy load requires 120 volts (plus or minus 10 percent), 60-cycle ac power for control and operation of the contactor, fan, and timer.

(5) PROBLEM AREA: Equipment is required which will verify the condition of charge of the NICAD emergency battery assembly (Item 5029) by taking simultaneous current and voltage measurements of the dummy loaded battery assembly. Conventional hydrometer measurements will not indicate a NICAD battery's condition of charge.

(18) REMARKS: This item is the same as item 78 in Report No. ZM-7-357.

† Reallocated from OSTF No. 1 per AF TWX WDTGC-7-7-1 dated 7-8-60.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961		LIST NUMBER: AP60-1045																
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:														
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)									
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFI. CATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER						
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																												
110		Interstate Engr. Corp. 600 E. Vermont Ave. Anaheim, Calif. S-2551			COVER PLATE FSC NOMENCLATURE: PLATE, CLOSING, ACTUATOR ASSY. MANIFOLD		Est 15			CFE																						
																		CONTRACT NO. AF 04(647)-370														
																		OSTF No. 1														
																		CONTRACT NO. AF 04(647)-346														
																		576-C														
																		567														
																		548														
																		706														
																		549														
																		CONTRACT NO. AF 04(647)-453														
																		OSTF No. 2														
																		CONTRACT NO. AF 04(647)-605														
																		576-D														
																		576-E														
																		550														
																		551														
																		577														
																		578														
																		579														
																		556														
																		ATC														

(4) NOMENCLATURE: (PNS) Preferred - Cover Plate.

This steel cover plate is 2-1/4 inches long, 1-3/4 inches wide, and 3/8-inch thick. One 13/64-inch hole in each corner provides a means of attaching this plate to the cylinder. Four diametrically opposite 11/32-inch diameter O-ring recesses, drilled to a depth of 1/16-inch, are located on a 5/16-inch radius from the center of the block. Each recess will accommodate one MS28784-9 O-ring.

(5) PROBLEM AREA: A device is required to seal off the Interstate Engineering Corp. sustainer engine actuator assembly manifold (27-08563-1) during tests when the control valve is removed.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 110

92

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045										
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:						
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	Y/N/A	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	US DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
111		Interstate Eng. Corp. 600 E. Vermont Ave. Anahelm, Calif. S-2654			WRENCH, SPANNER			Est 60																		
																		CONTRACT NO. AF 04(647)-370								
																		OSTF No. 1								
																		CONTRACT NO. AF 04(647)-346								
																		576-C								
																		567								
																		548								
																		706								
																		549								
																		CONTRACT NO. AF 04(647)-453								
																		OSTF No. 2								
																		CONTRACT NO. AF 04(647)-605								
																		576-D								
																		576-E								
																		550								
																		551								
																		577								
																		578								
																		579								
																		556								
																		ATC								

(4) NOMENCLATURE: (PNS) Preferred - Wrench, Spanner.

This is a lug-type spanner wrench with a nonadjustable face. A full round plate with a 3-inch diameter opening is located 12-1/2 inches from one end of the wrench. Six 3/16-inch lugs, spaced evenly around the periphery of the three-inch opening, project from the face of the wrench. The wrench has an over-all length of approximately 34-3/8 inches. The handles are 3/16-inch thick 1-11/16 inches wide.

(5) PROBLEM AREA: A spanner wrench with a full 3-inch opening and six evenly spaced 3/16-inch lugs projecting from the periphery is required to install the retainer on the Interstate Engineering Corp. sustainer engine actuator assembly (27-08563-1).

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 111

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961			LIST NUMBER: AP60-1045																									
SM-65			CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)			REV.: A-Apr '61																									
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																				
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE ESTIMATES AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	US DEPOT	SUB TOTAL	TOTAL ON ORDER																			
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																							
114	Pac Aero Engineering Corp. 3021 Airport Ave Santa Monica, Calif TE15719				ADAPTER, THERMOMETER, IMMERSION FSC NOMENCLATURE: ADAPTER, BIMETALLIC SELF-INDICATING THERMOMETER		Est 12																																				
					<p><b>REASON FOR DELETION</b> Operation of power driven trailer mounted reciprocating vacuum pump (Item 31.5) does not require use of this adapter.</p>																																						
(4) NOMENCLATURE: Preferred - Adapter, Thermometer, Immersion.					§ This item is documented for the depot in Report No. ZM-7-357.																																						
This item consists of a nipple-flared, threaded-tube-type fitting; a cap-flared, threaded-tube-type fitting; and an O-ring. The adapter is designed to permit insertion of the probe of a Braun Corporation, type 61048 thermometer into a pipe line or pipe.					# The item provisioned for OSTF No. 1 will also support OSTF No. 2.																																						
(5) PROBLEM AREA: An adapter which will permit insertion of a Braun Corporation type 61048 dial thermometer into a pipe line or pipe for checking the temperature or settings of various devices associated with Pacific Aero Engineering Corporation, part number 27-08401 is required. This adapter will be used in tests of item 1408.																																											
(18) REMARKS: † The Series D item provisioned for complex 576-A will also support complexes 576-C, D and E.																																											
¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirements at 706 SSS and 549 SMS.																																											
																	CONTRACT NO. AF 04(647)-370																										
																	OSTF No. 1			1																							
																	CONTRACT NO. AF 04(647)-346																										
																		10/24/60	576-C		†																						
																			567			1																					
																			548			1																					
																			706			¶																					
																			549			¶																					
																	CONTRACT NO. AF 04(647)-453																										
																	OSTF No. 2			#																							
																	CONTRACT NO. AF 04(647)-605																										
																		10/24/60	576-D		†																						
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																			579			1																					
																			556			1																					
																	ATC																										

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 114

Page 1 of 1





USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO.	(See Column 7) REV.:
<p>is fitted with a 4-inch high clamping device. Four dowel pins spaced to align with holes in the test unit mounting base are located in the center of the plate. A hand operated cam-type clamping device for securing the test unit to the mounting bracket is mounted on each side of the dowel pins. These clamping devices are steel plate fittings each measuring approximately 5 inches long and 1-1/4 inches wide. The clamping devices are pivoted to the base plate on adjustable studs and are activated by hand operated cams which work against spring pressure. The test unit is positioned on the dowel pins and secured in place by pressure exerted against the pressure reducer flange by cam action on the steel plate fittings.</p> <p>(5) PROBLEM AREA: A kit of special and standard tools consisting of 4 orifices, 1 orifice holder, 1 valve holding fixture, and 1 spanner wrench is required to accomplish adjustment tests of Weston Hydraulics pneumatic pressure regulator valves P/N 7-08324-1 and P/N 7-08385-1. Each of the four orifices must be capable of passing air or dry nitrogen as follows:</p> <ol style="list-style-type: none"> <li>1) 20 SCFM at 380 psig</li> <li>2) 110 SCFM at 350 psig</li> <li>3) 120 SCFM during pressure drop from 4000 to 600 psig</li> <li>4) 4 SCFM during pressure drop from 4000 to 600 psig</li> </ol> <p>The orifice holder must be capable of holding any one of the orifices and must attach to a test setup.</p> <p>The holding fixture must be capable of supporting and holding regulator valve P/N 7-08385-1 during test procedures. A spanner wrench, FSN 5120-595-9109, is provided in lieu of Weston spanner wrench P/N T-3776 to tighten cap P/N 10256 of regulator valve P/N 7-08324-1, and is listed on page 347 of ZM-7-357. The kit will be located in the hydraulic-pneumatic shop. This regulator</p>		<p>valve, in the hydraulic system, is a part of the missile-borne vernier solo hydraulic power supply assembly, P/N 27-85327, located by the Quad IV jettison rail.</p> <p>(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.</p> <p>¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>This item is used in conjunction with Stand, Test, Electrical-Hydraulic-Pneumatic System Components, item 22 in Rocketdyne Report No. R-1221.</p> <p>† The item previously provisioned for complex 576-C will be reallocated to Series F.</p> <p>‡ The Series D item provisioned for complex 576-A will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.</p>			



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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045															
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.															
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																	
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)									
ITEM SEQUENCE	CSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTION LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER							
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																											
120					Pantex Mfg. Co. Benbow West Coast Div. 11920 W. Jefferson Blvd. Culver City, Calif. 9224	JIG ASSY. FSC NOMENCLATURE: FIXTURE, HYDRAULIC TANK ALIGNMENT	Est 34																								
<p>(4) NOMENCLATURE: (PNS) Preferred - Jig Assembly.</p> <p>Essentially, this item consists of an aluminum plate with three stud-type indexes. This device is designed to align and hold the missile sustainer hydraulic fluid tank during assembly. The plate measures approximately 18-1/2 inches long, 4-1/2 inches wide, and 5/8-inch thick. Two 10-32-thread index studs spaced 4 inches apart on centers are fixed on one end of the plate. One 1/4-28-thread index stud is fixed on the opposite end. The distance between the single index stud on the one end and the other two index studs, center-to-center, is 17-1/2 inches.</p> <p>Alignment is accomplished by matching the three index studs on the jig with two holes in the cylinder and one hole in the end cap.</p> <p>(5) PROBLEM AREA: A jig-type fixture with fixed indexes is required to properly align the cylinder and end cap that comprise the missileborne sustainer hydraulic tank (27-08552-3) (Pantex 8983C), during assembly. Mounting bracket holes in the cylinder and end cap serve as tank index points. The jig must have three index studs, two of which must fit two mounting holes in the cylinder, and one of which</p>																															
<p>must fit into the mounting hole in the end cap. The distance between the end cap index stud and the cylinder index studs must be 17-1/2 inches, center-to-center.</p> <p>(18) REMARKS: § This item is documented for the Depot in Report No. ZM-7-357.</p> <p>¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>‡ The item provisioned for complex 576-C will also support complexes 576-D and E; and OSTF No. 1 and No. 2.</p>																															
														CONTRACT NO. AF 04(647)-370																	
														CONTRACT NO. AF 04(647)-346																	
														1/22/60		576-C															
																567															
																548															
																706															
																549															
														CONTRACT NO. AF 04(647)-453																	
														CONTRACT NO. AF 04(647)-605																	
																576-D															
																576-E															
														5/24/60		550															
																551															
																577															
																578															
																579															
																556															
																ATC															

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 120

Page 1 of 1

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045										
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.:										
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.												
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)				
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE			COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTION LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE EST. ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	S/D DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
121					WRENCH, SPANNER		Est 15																			
		Pantex Mfg. Co. Benbow West Coast Div. 11920 W. Jefferson Blvd. Culver City, Calif. 9260																								
(4) NOMENCLATURE: (PNS) Preferred - Wrench, Spanner					† The item previously provisioned for complex 576-C will be reallocated to Series F.																					
This is a pin-type, fixed spanner wrench with a 0.182-inch diameter, 1/4-inch long pin and a 5-inch diameter circle capacity. This wrench is 1/2-inch thick overall and has a handle 3-1/2 inches long.																										
(5) PROBLEM AREA: A pin-type spanner wrench is required for tightening the retainer nut on the missileborne sustainer hydraulic tank (27-08552-3) (Pantex 8983C) during assembly. The pin size must be 0.182-inch in diameter and must have a 5-inch diameter circle capacity.																										
(18) REMARKS: This item is used in the hydraulic-pneumatic shop area and is stored in the tool crib.																										
† The Series D item provisioned for complex 576-A will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.																										
§ This item is documented for the depot in Report No. ZM-7-357.																										
¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.																										
																		CONTRACT NO. AF 04(647)-370								
																		OSTF No. 1								
																		CONTRACT NO. AF 04(647)-346								
																		576-C		††						
																		1/22/60		567		1		1		
																				548		1		1		
																				706		†				
																				549		†				
																		CONTRACT NO. AF 04(647)-453								
																		OSTF No. 2								
																		CONTRACT NO. AF 04(647)-605								
																		576-D		†						
																		576-E		†						
																		5/24/60		550		1		1		
																				551		1		1		
																				577		1		1		
																				578		1		1		
																				579		1		1		
																				556		1		1		
																		ATC								

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 121

Use Current List of Effective Pages as guide for inserting Revision Pages.

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F																	DATE: 5 January 1961		LIST NUMBER: AP60-1045												
SM-65			CONVAIR-ASTRONAUTICS											CONTRACT NO. (See Column 7)		REV.															
(1)	(2)	(3) STOCK NUMBER			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)						
ITEM SEQUENCE	GSE SPEC PARA NO.	CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER	NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE		COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST DEL. AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	US DEPOT	SUB TOTAL	TOTAL ON ORDER						
122					Pantex Mfg. Co. Benbow West Coast Div. 11920 W. Jefferson Blvd. Culver City, Calif. 9317	GUIDE, PISTON FSC NOMENCLATURE: GUIDE, PISTON, HYDRAULIC TANK CYLINDER	Est 65																								
<p>(4) NOMENCLATURE: (PNS) Preferred - Guide, Piston. † The item previously provisioned for complex 576-C will be reallocated to Series F.</p> <p>This cylindrical item is approximately 4-7/16 inches long and has an inside diameter of 3.994 inches and an outside diameter of 4-3/4 inches. One end of the guide has a 10-degree inside bevel, 1-inch long; the opposite end has a 30-degree outside bevel, 3/4-inch long.</p> <p>(5) PROBLEM AREA: A piston guide is required to facilitate installation of the piston and O-ring assembly into the cylinder of the missileborne sustainer hydraulic tank (27-08552-3) (Pantex 8983C). The inside diameter of the cylinder is 4 inches.</p> <p>(18) REMARKS: This item is used in the hydraulic-pneumatic shop area and is stored in the tool crib. § This item is documented for the depot in Report No. ZM-7-357. ‡ The Series D item provisioned for complex 576-A will also support complexes C, D, and E, and OSTF No. 1 and No. 2. ¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p>																															
																	CONTRACT NO. AF 04(647)-370														
																	OSTF No. 1														
																	CONTRACT NO. AF 04(647)-346														
																	576-C														
																	567		1											1	
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																	706		¶												
																	549		¶												
																	CONTRACT NO. AF 04(647)-453														
																	OSTF No. 2														
																	CONTRACT NO. AF 04(647)-605														
																	576-D														
																	576-E														
																	550		1												1
																	551		1												1
																	577		1												1
																	578		1												1
																	579		1												1
																	556		1												1
																	ATC														

5120-526-0788 1ea

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 122

Use Current List of Effective Pages as guide for inserting Revision Pages.





## USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV.:

Coupling	Convair Part No.	Peacock Part No.
Rise-Off (Part of Item 1100 and 1101)	27-08558-1 & -3	51300-1 & -3
Rise-Off (Part of Item 1100 and 1101)	27-08557-1 & -3	51295-1 & -3
Staging (Missile-borne)	27-08556-1 & -3	51290-1 & -3
Staging (Missile-borne)	27-08555-1 & -3	51285-1 & -3

The rise-off couplings are located at the disconnect panel and the staging couplings are located in the tank and booster separation area.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

‡ The Series D item provisioned for complex 576-A will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.

¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will support Series E requirement at 706 SSS and 549 SMS.

† The item previously provisioned for complex 576-C will be reallocated to Series F.

This item is used in conjunction with Stand, Test, Electrical-Hydraulic-Pneumatic System Components, item 22 in Rocketdyne Report No. R-122.

By AF direction at the 24 to 28 October 1960 Provisioning Conference, this item is to be incorporated as a part of item 5078 at a later date by ECP action.

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:													
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)								
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER						
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																											
125		Interstate Engineering Co. 600 E. Vermont Ave. Anaheim, Calif. S-2594			FIXTURE, VERNIER ACTUATING, CYLINDER TEST FSC NOMENCLATURE: FIXTURE, TEST, ACTUATING CYLINDER		Est 50																								
																	CONTRACT NO. AF 04(647)-370														
																	OSTF No. 1														
																	CONTRACT NO. AF 04(647)-346														
																	576-C														
																	567														
																	548														
																	706														
																	549														
																	CONTRACT NO. AF 04(647)-453														
																	OSTF No. 2														
																	CONTRACT NO. AF 04(647)-605														
																	576-D														
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																	579														
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																	ATC	T-321 (1) T-330 (1)													

(4) NOMENCLATURE: (PNS) Preferred - Fixture, Vernier Actuating, Cylinder Test.

This fixture, which measures approximately 5-1/2 inches wide, 6 inches long, and 4 inches deep, contains a splined shaft with two vernier drive selector gears, and provisions for mounting two vernier engine actuating cylinders. This fixture holds the vernier cylinders during component test.

The two cylinders are mounted on the fixture so that each cylinder rack meshes with one of the gears. Hydraulic fluid at 2000 psi is supplied to one of the cylinders; the other cylinder is supplied with hydraulic fluid at test pressure. Because the two cylinder racks are effectively joined through the shaft with the selector gears, the first cylinder acts as a 2000 pound load for the cylinder being tested; thereby preventing excessive acceleration of the cylinder piston. Hydraulic fluid at 2000 psi and at test pressure is supplied from the Rocketdyne electrical-hydraulic-pneumatic component test stand.

(5) PROBLEM AREA: A device for holding the vernier engine yaw (27-08574-1) and pitch and roll actuator (27-08573-1) cylinders during component testing is required. This device must provide a load of

approximately 2000 psi to the cylinder under test to prevent excessive acceleration of the vernier cylinder piston.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 125

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045																											
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV: A-Feb '61																									
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																				
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID STAS	AT SMA	GENERAL	US DEPOT	SUB TOTAL	TOTAL ON ORDER																		
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																							
129		Permanent Filter Corp.	65001-3		ADAPTER ASSY, ELEMENT CLEANING, AIR HOSE	8																																					
					<p>(4) NOMENCLATURE: (PNS) Preferred - Adapter Assembly, Element Cleaning, Air Hose.</p> <p>This item consists of a 10-inch long probe tube, and an adapter cap that fits over the outlet fitting of the filter element. One end of the probe can be attached to an air hose. The other end has a No. 70 hole in the center, and eight equally spaced No. 60 holes around the periphery of the end.</p> <p>After a filter has been dipped in cleaning solvent it must be dried. This is accomplished by screwing the end cap onto the filter element outlet, inserting the probe into the element, and turning on the air pressure. An O-ring seal inside the cap prevents excessive loss of air pressure. The probe is then moved up and down within the filter element. The adapter cap acts as a guide for the probe. The probe tube has an outside diameter (od) of 0.620-inch and an inside diameter (id) of 0.438-inch. The cap is 0.75-inch long and has an od of 1.38 inches and id of 0.626 inch.</p> <p>(5) PROBLEM AREA: The filter element of the gaseous nitrogen filter assembly (27-02105) which is a part of the ground nitrogen supply line, must frequently be cleaned and dried. This must be accomplished by passing a reverse flow of clean air through the element.</p> <p>Equipment is required which is capable of applying a high velocity, reverse air flow through the filter element. This device must operate from a 100 psi to 150 psi supply source of air at approximately 4 cfm flow. Drying must be accomplished without permitting an excessive amount of air to escape through outlet of the filter element.</p> <p>(18) REMARKS: This item is located in the hydraulic-pneumatic shop at the MAB.</p> <p>¶ The Series D item provisioned for the 706 SSS in Report No. AM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>‡ The Series D item provisioned for complex 576-A will also support complexes 576-C and OSTF No. 1.</p> <p>By AF direction at the 24 to 28 October 1960 Provisioning Conference this item is to be incorporated as part of item 5078 at a later date by ECP action.</p>																																						
																		CONTRACT NO. AF 04(647)-370																									
																		OSTF No. 1																									
																		CONTRACT NO. AF 04(647)-346																									
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By Air Force direction:

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- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 129

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045																												
SM-65		CONVAIR-ASTRONAUTICS			CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION							SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.																												
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																					
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MFG. PART OR DWG. NUMBER	UNIT PRICE	MFG. PART OR DWG. NUMBER	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																		
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																								
130		Atlantic Research Corp. Alexandria, Va. C-20805C			BRACKET, MOUNTING, RETRO-ROCKET TEST			Est 15																																				
																		CONTRACT NO. AF 04(647)-370																										
																		OSTF No. 1																										
																		CONTRACT NO. AF 04(647)-346																										
																		576-C																										
																		1/22/60	567																1									
																		548																		1								
																		706																										
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																		CONTRACT NO. AF 04(647)-453																										
																		OSTF No. 2																										
																		CONTRACT NO. AF 04(647)-605																										
																		576-D																										
																		576-E																										
																		1/22/60	550																								1	
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																		ATC																										

(4) NOMENCLATURE: (PNS) Preferred - Bracket, Mounting, Retro-Rocket Test.

This item is a tee-type bracket. The base plate measures approximately 9 inches long, 4 inches wide, and 1/2 inch thick. Four 13/32-inch diameter holes are provided for mounting the base plate on a rigid base. The support for holding the retro-rocket is centered and welded to the base plate. This support measures approximately 7-3/8 inches long, 1 inch wide, and 1 inch high. Two bolt holes are provided for attaching the retro-rocket to the support for ignition continuity test.

The bracket measures approximately 9 inches long, 4 inches wide, and 1-1/2 inches high, overall.

(5) PROBLEM AREA: Ignition continuity of the retro-rockets must be checked before the rockets are installed on a missile.

A device is required for holding the retro-rocket (27.04300) during ignition continuity checks. This device must be capable of withstanding a 1000 pound thrust load imposed by the retro-rocket in case of accidental ignition.

(18) REMARKS: This item is located in the munitions storage area of the Support Base.

¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will support the Series E requirement at 706 SSS and 549 SMS.

‡ The Series D item provided by ECP 310-1, CCN 571 action, for complex 576-A will also support complexes 576-C, D and E; and OSTF No. 1 and No. 2.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER 130

Use Current List of Effective Pages as guide for inserting Revision Pages.

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:						
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(16)	(17)	(15)	(7)					(8)		
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																				
132		27-80057-1			ORIFICE, FUEL TANK PURGE	Est 11																		
		EID-27-8037			FSC NOMENCLATURE: PLUG, MACHINE THREAD, FUEL TANK PURGE																			
		CONTRACT NO. AF 04(647)-370																						
		OSTF No. 1																						
		CONTRACT NO. AF 04(647)-346																						
		1/22/60																						
		576-C																						
		567																						
		548																						
		706																						
		549																						
		CONTRACT NO. AF 04(647)-453																						
		OSTF No. 2																						
		CONTRACT NO. AF 04(647)-005																						
		576-D																						
		576-E																						
		5/24/60																						
		550																						
		551																						
		577																						
		578																						
		579																						
		556																						
		ATC																						

(4) NOMENCLATURE: (PNS) Preferred - Orifice, Fuel Tank Purge.

This is a 3/4-inch-diameter, threaded, stainless-steel plug with a 0.143-inch diameter orifice in the center and a 1-3/8-inch hexagonal flange. The overall length of this item is approximately 1.214 inches. The orifice is used to prevent mixing of helium and nitrogen within the fuel tank by permitting gradual nitrogen bleed-off while the nitrogen is being replaced by helium. The orifice is used in conjunction with the missile fuel tank purge installation (27-80057) which is a part of the missile. Together they are used to purge the missile fuel tank of nitrogen when switching the tanks to helium pressurization prior to moving the missile from the missile maintenance area to the launcher. The missile handling trailer is equipped to provide helium pressurization.

The orifice, equipped with an O-ring seal, is installed in valve 27-02103. This valve is located at missile station 1116.12 near the vernier engine. Prior to installing the orifice an AN814-12 plug must be removed from the valve.

(5) PROBLEM AREA: Fuel loading cannot be attempted to an operational fill rate of 3500 gpm with nitrogen gas in the fuel tank. The nitrogen must be replaced with helium since the nitrogen cannot be exhausted fast enough during fuel loading to maintain pressure schedules.

A method is required for purging nitrogen from the missile fuel tank, before the missile is moved from the missile maintenance area to the launcher. Time limitation prevents nitrogen purging at the launcher.

(18) REMARKS: This item is located in the tool crib at the SMA.

# The item provisioned for OSTF No. 1 will also support OSTF No. 2.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.





USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES B AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS										A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:																								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																				
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT	SUB TOTAL	TOTAL ON ORDER																	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																							AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT											
140.2		Hydraulic Research & Mfg. CO. Burbank, California T104700-101			TOOL, ADJUSTING		Est 25																																				
																		CONTRACT NO. AF 04(647)-680																									
																		OSTF No. 1																									
																		CONTRACT NO. AF 04(647)-694																									
																		4 mo	12/19/61		576-C																						
																					567																						
																					548																						
																					706																						
																					549																						
																		CONTRACT NO. AF 04(647)-453																									
																		OSTF No. 2																									
																		CONTRACT NO. AF 04(647)-605																									
																					576-D																						
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																					579																						
																					556																						
																					ATC																						

(4) NOMENCLATURE: (PNS) Preferred - Tool, Adjusting.

This tool is a combination screwdriver and socket wrench. The wrench is a hollow cylinder 5/8-inch in diameter and 8-5/8 inches long fitted at one end with a 3/8-inch, 12-point socket and terminated at the other end with a 3/4-inch wrenching hex. The screwdriver is 0.487 inch in diameter, 10 inches long, with a 0.046 inch by 0.078 inch screwdriver bit at one end. The other end of the screwdriver is fitted with a T-handle.

In use, the screwdriver is inserted through the wrench.

(5) PROBLEM AREA: Servocylinder (Hydraulic Research P/N 104700, GD/A Spec 27-08550) is a component of the autopilot, hydraulic-booster system. The transducer on this servocylinder must be adjusted during depot-level maintenance operations.

A tool is required to facilitate this adjustment. The tool supplied must be designed to be inserted 8 inches through the hollow piston in the servocylinder to reach the linear transducer shaft adjustment. Further, the tool must be designed to serve the dual purpose of a screwdriver and a socket wrench.

(18) REMARKS: #This item is used at depot level overhaul and is required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 140.2

Use Current List of Effective Pages as guide for inserting Revision Pages.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS		A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	P/N'S	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
140.3		Hydraulic Research & Mfg. Co. Burbank, California			WRENCH, SPANNER			Est 35			Coml								CONTRACT NO. AF 04(647)-680							
																		OSTF No. 1					*			
																			CONTRACT NO. AF 04(647)-694							
																		576-C					*			
																		567					*			
																		548					*			
																		706					*			
																		549					*			
																			CONTRACT NO. AF 04(647)-453							
																		OSTF No. 2								
																			CONTRACT NO. AF 04(647)-605							
																		576-D								
																		576-E								
																		550								
																		551								
																		577								
																		578								
																		579								
																		556								
																		ATC								

(4) NOMENCLATURE: (PNS) Preferred - Wrench, Spanner.

This end-face-type keyway spanner wrench, is fabricated from steel and has an overall length of 4.62 inches. One end of the wrench is knurled. A 0.251-inch diameter drilled hole in this end of the wrench permits insertion of a steel bar for torquing. The other end incorporates two 0.124-inch square steel plates 1.170 inches long. These plates are staked in place to form a 0.063-inch keyway for contacting the key on the end cap of the flow limiter.

(5) PROBLEM AREA: A flow limiter is located within the servocylinder (Hydraulic Research P/N 104700, GD/A Spec 27-08550) which is a component of the autopilot booster system. During assembly of this servocylinder, following overhaul, the end cap on this flow limiter must be tightened.

A spanner-type wrench which will reach and mate with a key on this end cap is required to facilitate this operation.

(18) REMARKS: #This item is used at depot level overhaul and is required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 140.3

36

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SWA	GENERAL	IN DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
141		Robertshaw-Fulton Anaheim, Calif. A81T223			LOADING THIMBLE, VALVE POPPET PROTECTOR FSC NOMENCLATURE: PROTECTOR, INSTL., POPPET			Est 5																		
																		CONTRACT NO. AF 04(647)-370								
																		O5TF								
																		CONTRACT NO. AF 04(647)-346								
																		576-C								
																		567								
																		548								
																		706								
																		549								
																		CONTRACT NO. AF 04(647)-453								
																		O5TF								
																		CONTRACT NO. AF 04(647)-605								
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																		556								
																		ATC								

(4) NOMENCLATURE: (PNS) Preferred - Loading Thimble, Valve Poppet Protector.

This item is a tubular device 1.03 inches long and 0.19-inch in outside diameter. One end of the device is conical shaped. This item is designed to fit over and protect the poppet of motor operated valve (27-08116-9) during valve assembly. The valve is located in the propellant tank helium pressurization line in the missile booster section.

(5) PROBLEM AREA: A cover is required which will protect the poppet of motor operated valve (27-08116-0; Robertshaw-Fulton 1098-21001) from damage during valve assembly.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 141

Page 1 of 1

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961			LIST NUMBER: AP60-1045																					
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)		REV.																		
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)															
ITEM SEQUENCE	GSE SPEC PARA NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL QUANTITY	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF PROC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SWA	GENERAL	IN DEPOT	SUB TOTAL	TOTAL ON ORDER												
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																		
142		Robertshaw-Fulton Anaheim, Calif. 41T202			WRENCH, SPANNER, FACE, PIN TYPE FSC NOMENCLATURE: WRENCH, SPANNER			Est 45																														
																		CONTRACT NO. AF 04(647)-370																				
																		OSTF No. 1																				
																		CONTRACT NO. AF 04(647)-346																				
																		576-C																				
																		567																				
																		548																				
																		706																				
																		549																				
																		CONTRACT NO. AF 04(647)-453																				
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																		CONTRACT NO. AF 04(647)-605																				
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																		556																				
																		ATC																				

(4) NOMENCLATURE: (PNS) Preferred - Wrench, Spanner, Face, Pin Type.

This item is made of 1-1/2-inch hex stock. The body of the wrench is approximately 5 inches long and has a 3/4-inch diameter, 1-inch long, extension on one end. Two pins, spaced approximately 1/2-inch center to center, are fixed to the face of the extension. The wrench is designed to remove the poppet retaining nut when disassembling motor operated valve (27-08116-9). This valve is located in the propellant tank helium pressurization line in the missile booster section.

(5) PROBLEM AREA: A pin type spanner wrench is required to remove the poppet retaining nut when disassembling motor operated valve 27-08116-9 (Robertshaw-Fulton 1098-21001).

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction

- 1 Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2 Recommended quantities only are listed in column 7.
- 3 This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 142









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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961		LIST NUMBER: AP60-1045																							
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.																							
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																									
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(17)					(8)																
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COST PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCCS	AT GUID STAS	AT SWA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER													
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																			
146.1		Goodyear Aircraft Corp. WRENCH, SPANNER Litchfield Park, Ariz. A59QS199						Est 35																															
														CONTRACT NO. AF 04(647)-370																									
														OSTF No. 1	*																								
														CONTRACT NO. AF 04(647)-346																									
																	9/14/60	576 C	*																				
																		567	*																		1		
																		548	*																		1		
																		706																					
																		549	*																				
														CONTRACT NO. AF 04(647)-453																									
														OSTF No. 2																									
														CONTRACT NO. AF 04(647)-605																									
																		576-D																					
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																		ATC																					

(4) NOMENCLATURE: (PNS) Preferred - Wrench, Spanner.

This wrench is used to remove and install the ball joint assembly (27-09233) in the missile erection boom (27-95001). The wrench is 6 inches long, 1-1/8 inches wide, 17/32-inch thick. The face of the wrench has a U-shaped opening and two diametrically opposed lugs spaced 13/16-inch apart. The lugs are 5/32-inch square and 9/32-inch long.

(5) PROBLEM AREA: A tool is required for removing and installing ball joint assembly (27-09233) in the missile erection boom (27-95001). The ball joint is encased in a 7/8-inch id housing which has two diametrically opposed, 3/16-inch wide, slots for accommodating a spanner wrench.

(18) REMARKS: This item is used at the launcher.

§ This item is documented for the depot in Report No. ZM-7-357.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The Series D item provisioned for complex 576-B will also support complex 576-C; and OSTF No. 1.

† The item previously provisioned for complex 576-C will be reallocated to Series F.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 146.1



USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC PARA NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE WHEN ITEMS AVAILABLE	LOCATION	AT LAUNCHERS	AT ICCS	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
150.1		AiResearch Mfg. Co. of Arizona Phoenix, Arizona 281291-3			WRENCH, SOCKET, SERRATED, FUEL FILL AND DRAIN VALVE FSC NOMENCLATURE: WRENCH, SOCKET <i>5120-445-1805 Loc.</i>																					
<p>(4) NOMENCLATURE: (PNS) Preferred - Wrench, Socket, Serrated, Fuel Fill and Drain Valve.</p> <p>This item is a T-shaped tool fabricated of 0.875-inch od tubing approximately 6 inches long. One end of the wrench is internally serrated, and the other end has a T-type handle approximately 6 inches long. The total weight of the tool is approximately 1/2-pound.</p> <p>(5) PROBLEM AREA: The fuel fill and drain valves (7-02315-3 and 7-02315-5) require installation of a seal on the butterfly shaft. The valves are a part of the propellant system and are located in the missile booster section. During installation of the seal the butterfly shaft on the backing plate assembly must be turned.</p> <p>Equipment is required to perform this function. The equipment chosen must mate with the serrated butterfly shaft. Dimensions of the shaft are not currently available.</p> <p>(18) REMARKS: This item is used in the hydraulic-pneumatic shop at the missile assembly building.</p>																										
																		CONTRACT NO. AF 04(647)-370								
																		OSTF No. 1								
																		CONTRACT NO. AF 04(647)-346								
																		576 C								
																		5/24/60	567							
																		548								
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																		549								
																		CONTRACT NO. AF 04(647)-453								
																		OSTF No. 2								
																		CONTRACT NO. AF 04(647)-605								
																		576-D								
																		576-E								
																		5/24/60	550							
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																		ATC								

By Air Force direction:

- 1: Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2: Recommended quantities only are listed in column 7.
- 3: This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 150.1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961		LIST NUMBER: AP60-1045																															
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.																											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																								
ITEM NUMBER	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	DRAWING NO.	COGNIZANT LABORATORY, CENTER & SERVICE	TYPE LABEL, CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																											
151		AIRResearch Mfg. Co. of Arizona 281303			ADAPTER CAP, VALVE TEST FSC NOMENCLATURE: CAP, SEALING, FUEL VALVE																																										
																		CONTRACT NO. AF 04(647)-370																													
																		OSTF No. 1																													
																		CONTRACT NO. AF 04(647)-346																													
																		576 C																													
																		5/24/60	567																												
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																		CONTRACT NO. AF 04(647)-453																													
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																		579																													
																		556																													
																		ATC																													

(4) NOMENCLATURE: (PNS) Preferred - Adapter Cap, Valve Test.

This device consists of a 6-inch diameter cylinder capped on one end and open on the other. The capped end is provided with three tapped test ports.

Mounting holes in the cap flange match those of the inlet and outlet ports of the butterfly fuel fill and drain valve (7-02315). The butterfly valve is a part of the propellant system and is located in the booster section of the missile. Two adapters are required, one for the inlet and one for the outlet.

(5) PROBLEM AREA: The inlet and outlet ports of the butterfly fill and drain valve (7-02315) must be sealed during component testing.

Equipment is required to perform this function. The equipment chosen must clear the protruding valve body and mate with flanges on the inlet and outlet ports.

(18) REMARKS: This item is used in the hydraulic-pneumatic shop at the missile assembly building.

¶ The Series D Item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

† The Series D item provisioned for complex 576-A will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.

‡ The item previously provisioned for complex 576-C will be reallocated to Series F.

§ This item is documented for the depot in Report No. ZM-7-357.

This item is used in conjunction with Stand, Test, Electrical-Hydraulic-Pneumatic System Components, item 22 in Rocketdyne Report No. R-122.

By AF direction at the 24 to 28 October 1960 Provisioning Conference, this item is to be incorporated as a part of item 5078 at a later date by ECP action.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60.36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER. 151

Use Current List of Effective Pages as guide for inserting Revision Pages.

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONTRACT NO.		REV.																			
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.										(See Column 7)																					
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)										
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER							
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																													
152.1		AiResearch Mfg. Co. of Arizona Phoenix, Arizona 281292-1			WRENCH, SPANNER, END FACE, FUEL FILL AND DRAIN VALVE FSC NOMENCLATURE: WRENCH, SOCKET																												
					5120-447-0805 <i>lea.</i>																												
(4) NOMENCLATURE: (PNS) Preferred - Wrench, Spanner, End Face, Fuel Fill and Drain Valve.					(18) REMARKS: This item is used in the hydraulic-pneumatic shop at the missile assembly building.																												
This item is fabricated of 1-1/4-inch od, 0.695-inch id tubing approximately 3 inches long. Extending from one end of the wrench are two 0.055-inch diameter pins approximately 1/4-inch long. The pins are located 0.875-inch apart, center-to-center. The other end of the wrench has a T-type handle. The total weight of the tool is approximately 1/2-pound.					¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.																												
(5) PROBLEM AREA: During maintenance operations on the fuel fill and drain valves (7-02315-3 and 7-02315-5), a retainer nut located in the bearing bore of the butterfly valve must be installed and/or removed. The drain valves are a part of the propellant system and are located in the missile booster section.					‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.																												
Equipment is required to perform this function. The equipment chosen must clear the butterfly shaft and mate with the holes in the retainer nut. Dimensions of the butterfly shaft and retainer nut holes are not currently available.					§ This item documented for the depot in Report No. ZM-7-357.																												
																		OSTF No. 1						CONTRACT NO. AF 04(647)-370									
																		576-C						CONTRACT NO. AF 04(647)-346									
																		567	5/24/60														
																		548															
																		706															
																		549															
																		OSTF No. 2						CONTRACT NO. AF 04(647)-453									
																		576-D						CONTRACT NO. AF 04(647)-605									
																		576-E															
																		550	5/24/60														
																		551															
																		577															
																		578															
																		579															
																		556															
																		ATC															

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 152.1

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO (See Column 7)		REV													
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)								
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFI. CATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST PRO. DUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	W. DEPOT	SUB TOTAL	TOTAL ON ORDER							
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																											
157		MBAC	4935-798-444	# AC	FLANGE SET, BLIND, FUEL TANK MANUAL PRESSURIZATION SHUT-OFF VALVE TEST FSC NOMENCLATURE: CAP SET, TEST. PRESSURIZATION VALVE	Est 30					CFE																				
																CONTRACT NO. AF 04(647)-370															
																OSTF							No. 1								
																CONTRACT NO. AF 04(647)-346															
																576-C							††								
																	1/22/60	567							1						1
																		548							1						1
																		706							¶						
																		549							¶						
																CONTRACT NO. AF 04(647)-453															
																OSTF							‡								
																CONTRACT NO. AF 04(647)-605															
																576-D							‡								
																576-E							‡								
																	5/24/60	350							1						1
																		551							1						1
																		577							1						1
																		578							1						1
																		579							1						1
																		556							1						1
																							ATC								

(4) NOMENCLATURE: (PNS) Preferred - Flange Set, Blind, Fuel Tank, Manual Pressurization Shut-Off Valve, Test.

The set consists of two flanges designed to cap the inlet and outlet during pressure testing of the manual shut-off valve (27-08108-3). One flange (Robertshaw-Fulton 89T229) is 4-1/2 inches square, 1-1/4 inches thick, and has a machined cavity, 1-1/8 inches deep and 2-13/16 inches in diameter, on the inside surface. An O-ring groove, 3.191 inches in diameter, is also provided on the inside surface of the flange. Mounting holes around the edge of the flange match those of the shut-off valve inlet flange.

The other flange (Robertshaw-Fulton 89T230) is 4-1/4 inches square and 3/8-inch thick. One surface has a 3.191-inch diameter O-ring groove. Mounting holes around the edge of the flange match those of the shut-off valve outlet flange.

Each flange is provided with a 1/4-inch NPT hole for attaching a pressure source. Also provided are two 6230-14 O-rings, one for each flange.

(5) PROBLEM AREA: Blind flanges are required for capping the inlet and outlet liquid oxygen tank manual

shut-off valve (27-08108-3) during test. The valve is located in the liquid oxygen tank pressurization duct on the missile.

(18) REMARKS: This item is used in the hydraulic-pneumatic shop at the SMA.

§ This item is documented for the depot in Report No. ZM-7-357.

† The Series D item provisioned for complex 576-A will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

By AF direction at the 24 to 28 October 1960 Provisioning Conference, this item is to be incorporated as a part of item 5078 at a later date by ECP action.

‡ The item previously provisioned for complex 576-C will be reallocated to Series F.

This item is used in conjunction with Stand, Test, Electrical-Hydraulic-Pneumatic System Components, item 22 in Rocketdyne Report No. R-1221.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages

ITEM NUMBER: 157

Page 1 of 1



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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7)	REV.:

† The item previously provisioned for complex 576-C will be reallocated to Series F.

This item is used in conjunction with Stand, Test, Electrical-Hydraulic-Pneumatic System Components, Item 22 in Rocketdyne Report No. R-1221.

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045																												
SM-65		CONVAIR-ASTRONAUTICS		CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO (See Column 7)		REV																											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																						
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																			
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																									
159		Stratos, Western Branch 1800 Rosencrans Manhattan Beach, Calif. X58-509			FIXTURE, TEST, LIQUID OXYGEN HIGH RATE FILL AND DRAIN VALVE ASSY. FSC NOMENCLATURE: FIXTURE, TEST, LIQUID OXYGEN FILL AND DRAIN VALVE ASSY.		Est 500			CFE																																			
																		CONTRACT NO AF 04(647)-370																											
																		CONTRACT NO AF 04(647)-346																											
																		576 C																											
																		567																											
																		548																											
																		706																											
																		549																											
																		CONTRACT NO AF 04(647)-453																											
																		CONTRACT NO AF 04(647)-605																											
																		576 D																											
																		576 E																											
																		550																											
																		551																											
																		577																											
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																		579																											
																		556																											
																		ATC																											

4) NOMENCLATURE: (PNS) Preferred - Fixture, Test, Liquid Oxygen High Rate Fill and Drain Valve Assembly.

This item is specifically designed to facilitate functional and leak testing of the Stratos ground valve, the flexible duct, and the missileborne valve (Per Spec 27-02102), as an assembly. Separate leak testing of individual components is accomplished by capping the valve openings.

Because of similarity in design and mounting flange sizes, this fixture can also be used to perform similar tests on AiResearch fill and drain valve assembly or individual components of the assembly. In addition, by using blind flanges and/or adapters (not provided with fixture) this item can be used to perform similar tests on other missile components.

The test fixture measures approximately 92 inches high, 32 inches wide, and 15 inches deep. The basic structure consists of two plates, each 32 inches wide, 15 inches deep, and 1-1/2 inches thick, connected by four 72-inch long, 4-1/2-inch diameter seamless steel tubes. Attached to, and extending above the top plate

are four bolts, each 24-inches long and 1-inch in diameter. These bolts support a plate 10 inches square and 3/4-inch thick. A 200-psi pneumatically actuated cylinder is attached in a vertical position to the under side of this plate. The cylinder piston rod extends down through the top of the fixture and is attached to the missileborne valve adapter plate.

The valve adapter plate is guided up and down by cylindrical slides on two diagonally opposite seamless steel tubes. An adapter plate for the ground valve is fixed to the base plate.

(5) PROBLEM AREA: A test fixture is required to hold the liquid oxygen Stratos and/or AiResearch high rate fill and drain valve, including the interconnecting duct, during leak tests of the assembly or its components. Information on specific blind flange requirements for individual components testing will be provided when available.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 159





USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

‡ The Series D item provisioned for complex 576-B will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.

¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357, will also support the Series E requirement at 706 SSS and 549 SMS.

† The item previously provisioned for complex 576-C is reallocated to Series F.

# This is a depot-level overhaul item but is not required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.



USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045												
SPW-05		COMMAN-ATIONALICS													CONTRACT NO. (See Column 7)		REV.:												
CONVAIN IS A DIVISION OF GENERAL DYNAMICS CORPORATION															SAN DIEGO, CAL.														
(1)	(2)	(3) STOCK NUMBER			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(7)					(8)				
(18A) (ITEM) (SEQUENCE)	(18B) (USE SPEC. (PART, HQ))	(19A) (MAKE) (CODE)	(19B) (SERIAL) (NUMBER)	(19C) (WPG. PART OR UWS. NUMBER)	(20) (NOMENCLATURE)	(21) (DESCRIPTION OF PROBLEM AREA)	(22) (UNIT) (PRICE)	(23) (COCHEZANT LABORATORY, CENTER, & SERVICE)	(24) (TYPE) (CLASSIFI- CATION)	(25) (PROPOSED) (SUPPLY) (SOURCE)	(26) (SOURCE) (CODE)	(27) (SECURITY) (CLASS. & REMARKS)	(28) (EST. PRO- Ductions) (LEAD) (TIME)	(29) (DATE OF) (AIRC) (APPROVAL)	(30) (EST. DATE) (FIRST) (ITEM) (AVAILABLE)	(31) (LOCATION)	(32) (AT) (LAUNCHERS)	(33) (AT) (LCC'S)	(34) (AT) (GUID) (STAS)	(35) (AT) (SMA)	(36) (GENERAL)	(37) (DEPOT)	(38) (SUB) (TOTAL)	(39) (TOTAL) (ON) (ORDER)					
ERN-7		B. H. Hadley Inc. Pasadena, California T-40319			PULLER ASST. PNEUMATIC DISCONNECT COUPLING SEAL PSC NOMENCLATURE: PULLER, MECHANICAL																								
															CONTRACT NO. AF 04(647)-370														
															OSTF No. 1														
															CONTRACT NO. AF 04(647)-345														
															5/24/60	576-C		†									1		
																567			1									1	
																548			1									1	
																706			†										
																549			†										
															CONTRACT NO. AF 04(647)-453														
															OSTF No. 2														
															CONTRACT NO. AF 04(647)-605														
																576-D			†										
																576-E			†										
															5/24/60	550			1									1	
																551			1									1	
																577			1									1	
																578			1									1	
																579			1									1	
																556			1									1	
																ATC													

5180-446-3085 *Lea.*

(6A) (NOMENCLATURE: (PNS) Registered - Puller assembly, Pneumatic Disconnect Coupling Seal.

This item is used to remove the seal assembly from the missile's pneumatic disconnect coupling (27-08124). The disconnect coupling is located in the missile booster separation section.

One end of the assembly is an aluminum puller with an expander cone and a 3/8-16 cap screw approximately 4 inches long. The other end is constructed to 1-7/8 inches square to accommodate a wrench. The over-all assembly measures approximately 4-1/8 inches long, and 2.685 inches in diameter. Longitudinally through the center of the puller is a 3/8-inch diameter hole. One end of the hole terminates at the base of the 1.187-inch diameter, 60-degree tapered expander cone hole in the head end of the puller. In addition to the tapered hole, the head is longitudinally split by four slots 1/32-inch wide, and 2-1/8 inches long spaced 90 degrees apart. The expander cone measures approximately 1.230 inches in diameter tapered 60 degrees, and 0.725-inch long with a 3/8-16 threaded hole through the end to match the cap screw. The approximate over-all weight of the assembly is 1-pound.

(6) (PROBLEM AREA: The seal assembly inside the retainer ring in the sustainer section of the missile-borne pneumatic disconnect coupling (27-08124) must be removed during maintenance.

Equipment is required to perform this operation. The equipment chosen must create sufficient tension against the seal wall to allow for removal of the seal from the coupling. The wall has an inside diameter of 2.690 inches.

(18) (REMARKS: This item is used in the hydraulic-pneumatic shop at the missile assembly building.

† The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The Series D item provisioned for complex 576-B will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.

† The item previously provisioned for complex 576-C will be reallocated to Series F.

By Air Force direction:  
 (1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 (2) Recommended quantities are listed in column 7.  
 (3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of ARBWD Exhibit 60-26 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.



USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F														DATE: 22 December 1961		LIST NUMBER: AP60-1045											
SM-65		ASTRONAUTICS			A DIVISION OF GENERAL DYNAMICS CORPORATION							SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV.:										
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)					
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF AEDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT	SUB TOTAL	TOTAL ON ORDER			
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																							
163.17		B.H. Hadley, Incorporated Pomona, California T-6623			FIXTURE, PISTON SHAFT LEAK TEST																						
					(4) NOMENCLATURE: (PNS) Preferred - Fixture, Piston Shaft Leak Test.		The valve piston shaft assemblies (B. H. Hadley P/N 525422, 52690, and 525314) which are in these relief valves require leak testing during assembly.																				
					This fixture is designed to permit free flow of pressurized helium around the valve-piston shaft assemblies and thru the orifices in the shaft during leak testing.		A fixture is required which will facilitate this testing.																				
					The fixture is fabricated from 1-inch by 1-1/2-inch by 2-inch aluminum plate. The 1-inch by 2-inch faces of the plate are machined to form 1/4-inch wide longitudinal bosses 7/32-inch and 7/16-inch high respectively. A 3/8-inch diameter hole, located on the center line of the bosses 1/2 inch from one end of the fixture, is drilled through the fixture. A concentric groove 3/16-inch wide and 1/2 inch in diameter is centered in this hole 3/8-inch inboard from the face with the 7/16-inch high boss. This groove is tapped by a 1/8-inch diameter hole centered and drilled longitudinally from the face at the long end of the fixture. The outboard end of this last hole is tapped to accommodate a 1/4-inch pressure port. The fixture weighs approximately 3/4 pound.		(18) REMARKS: #This item is used at depot level but is not required at the GD/A depot.  § This item is documented for the depot in Report No. ZM-7-357.																				
					(5) PROBLEM AREA: The liquid oxygen tank pressure relief valves (B.H. Hadley P/N 10525 and 10702), and the fuel tank pressure relief valves (B. H. Hadley P/N 10526 and 10703) are components of the missile-borne fuel/liquid oxygen tank helium pressurization systems.																						
														CONTRACT NO. AF 04(647)-680						OSTF No. 1							
														CONTRACT NO. AF 04(647)-694						9/22/61							
														CONTRACT NO. AF 04(647)-453						OSTF No. 2							
														CONTRACT NO. AF 04(647)-605						576-D							
																				576-E							
																				550							
																				551							
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																				578							
																				579							
																				556							
																				ATC							

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 163.17

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F														DATE: 22 December 1961			LIST NUMBER: AP60-1043									
SM-65		ASTRONAUTICS		A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.:						
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)	
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT	SUB TOTAL	TOTAL ON ORDER		
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
163.18		B. H. Hadley Incorporated Pomona, California T-7397			CHAMBER, LEAKAGE PRESSURE TEST																					
																							CONTRACT NO. AF 04(647)-680			
																							OSTF No. 1			
																							CONTRACT NO. AF 04(647)-694			
																							9/22/61	576-C		
																							567			
																							548			
																							706			
																							549			
																							CONTRACT NO. AF 04(647)-453			
																							OSTF No. 2			
																							CONTRACT NO. AF 04(647)-605			
																							576-D			
																							576-E			
																							550			
																							551			
																							577			
																							578			
																							579			
																							556			
																							ATC			

163.18

B. H. Hadley Incorporated  
Pomona, California  
T-7397

CHAMBER, LEAKAGE  
PRESSURE TEST

CFE

(4) NOMENCLATURE: (PNS) Preferred - Chamber, Leakage Pressure Test.

A pressure type leak-test chamber is required to facilitate this operation. The equipment supplied must be designed to:

- 1) Withstand a pressure of 59 psi of helium
- 2) Provide a means of attaching a flowmeter.

(18) REMARKS: #This item is used at depot level but is not required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.

This item consists of a tank fabricated from 1/16-inch thick steel plate reinforced on all edges with 1-inch angle iron. The top of the chamber is fabricated from 3/4-inch thick plexiglass, is installed with a neoprene gasket, and fastened in position with 14 Allen head screws. There are four 1/2-inch holes on the front, two 1/2-inch holes on each side, and a 1/4-inch hole in the plexiglass top of the chamber. These holes are provided to permit installation of the necessary pressure fittings. The tank measures approximately 12 inches long, 8-3/8 inches wide, 12-3/4 inches high, and weighs approximately 30 pounds.

(5) PROBLEM AREA: The fuel tank pressure relief valves (B.H. Hadley P/N 1052 by GD/A spec 27-08104; B.H. Hadley P/N 10703, GD/A spec 7-08218) and the liquid oxygen tank pressure relief valves (B.H. Hadley P/N 10525, GD/A spec 27-08103; B.H. Hadley P/N 10703, GD/A spec 7-08210) are components of the missileborne fuel/liquid oxygen tank, helium pressurization system. These valves must be leak tested under pressure.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 163.18

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO.		(See Column 7)		REV.						
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	QUANTITY	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF AIDIC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
164		5120-780-0149			EXTRACTOR, SLEEVE, SERVO VALVE		Est 10			CFE																
																		CONTRACT NO. AF 04(647)-370								
																		OSTF No. 1								
																		CONTRACT NO. AF 04(647)-346								
																		576-C								
																		567								
																		548								
																		706								
																		549								
																		CONTRACT NO. AF 04(647)-453								
																		OSTF No. 2								
																		CONTRACT NO. AF 04(647)-605								
																		576-D								
																		576-E								
																		550								
																		551								
																		577								
																		578								
																		579								
																		556								
																		ATC								

(4) NOMENCLATURE: (PNS) Preferred - Extractor, Sleeve, Servo Valve.

This item is an expanding collet type extractor that is designed to be expanded into the valve sleeves of electro-hydraulic servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac Gage Company. The tool consists essentially of a tube with a T-handle. Turning a knob on one end of the tube draws a collet into the split end of the tube, causing the tube to expand. The tube is approximately 2 inches long and 1/4-inch in diameter with a 2-1/4-inch long handle. The extractor weighs approximately 1/4 pound.

(5) PROBLEM AREA: An expanding collet-type extractor is required at the depot to facilitate the removal and installation of valve sleeves during O-ring renewal in servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac Gage Co. The servo valves are part of the sustainer and vernier actuating systems.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 164

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)									
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	CROSS PRICE	COGNIZANT LAUNCHER, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	US DEPOT	SUB TOTAL	TOTAL ON ORDER						
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																												
164.1		Cadillac Gage Co. 1866 Whitter Avenue Costa Mesa, California T-AT-16454			EXTRACTOR ASSY., SPACER SLEEVE, SERVO VALVE FSC NOMENCLATURE: EXTRACTOR SET, SERVO VALVE		Est 15																									
																		CONTRACT NO. AF 04(647)-370														
																		OSTF No. 1														
																		CONTRACT NO. AF 04(647)-346														
																		576-C														
																		567														
																		548														
																		706														
																		549														
																		CONTRACT NO. AF 04(647)-453														
																		OSTF No. 2														
																		CONTRACT NO. AF 04(647)-605														
																		576-D														
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																		551														
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																		578														
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																		556														
																		ATC														

(4) NOMENCLATURE: (PNS) Preferred - Extractor Assembly, Spacer Sleeve, Servo Valve.

This item consists of a 5/64-inch hexagonal key approximately 3-1/4 inches long with a T-handle 1-3/4 inches long, and a cylindrical housing 3 inches long and 0.624-inch in diameter. The treaded ends of two socket head cap screws protrude from one end of the housing. This item is designed in such a manner that by use of the hexagonal key the two screws can be screwed into matching holes in the valve spacer sleeves in electrohydraulic servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac Gage Co. The tool weighs approximately 1/2-pound.

(5) PROBLEM AREA: A tool is required at the depot to remove the valve spacer sleeves from servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac Gage Co., during routine overhaul of the valves. The valves are part of the vernier and sustainer actuating systems. The extractor must be capable of insertion into an opening approximately 5/8-inch in diameter, and of removing the spacer without damaging the cylinder walls.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 164.1

Page 1 of 1

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045																	
SM-65		CONVAIR-ASTRONAUTICS		CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION						SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.																		
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)											
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL QUANTITY	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF INITIAL APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER								
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																														
164.2		Cadillac Gage Co. 1866 Whittier Avenue Costa Mesa, California T-PU-15172			EXTRACTOR, ORIFICE ASSY., SERVO VALVE FSC NOMENCLATURE: EXTRACTOR, SERVO VALVE ORIFICE			Est 10		CFE																								
																		CONTRACT NO. AF 04(647)-370																
																		OSTF																
																		No. 1																
																		CONTRACT NO. AF 04(647)-346																
																		576-C																
																		567																
																		548																
																		706																
																		549																
																		CONTRACT NO. AF 04(647)-453																
																		OSTF																
																		No. 2																
																		CONTRACT NO. AF 04(647)-605																
																		576-D																
																		576-E																
																		350																
																		551																
																		577																
																		578																
																		579																
																		556																
																		ATC																

(4) NOMENCLATURE: (PNS) Preferred - Extractor, Orifice Assembly, Servo Valve.

This item is a contracting collet type extractor designed to remove the orifice assembly in electro-hydraulic servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac Gage Co. It consists essentially of a tube with a T-handle. Turning a knob at one end of the tube draws a split collet into the tube causing the collet to contract. The tube is approximately 2 inches long and 1/4-inch in diameter with a 2-inch long handle. The collet will accommodate an item 0.120-inch in diameter. This tool weighs approximately 1/4-pound.

(5) PROBLEM AREA: A tool is required at the depot to facilitate the removal of the orifice assembly from servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac gage. Removal of the orifice assembly is necessary to renew O rings. The servo valves are part of the vernier and sustainer actuating systems.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 164.2

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

(1) ITEM SEQUENCE	(2) GSE SPEC. PARA. NO.	(3) STOCK NUMBER			(4) NOMENCLATURE	(5) DESCRIPTION OF PROBLEM AREA	(6) UNIT PRICE	(10) COCGNIZANT LABORATORY, CENTER, & SERVICE	(11) TYPE CLASSIFICATION	(12) PROPOSED SUPPLIER SOURCE	(13) SOURCE CODE	(14) SECURITY CLASS. & REMARKS	(15) EST. PRODUCTIONS LEAD TIME	(16) DATE OF ARDC APPROVAL	(17) EST. DATE FIRST ITEM AVAILABLE	(18) LOCATION	(7)							9/8 TOTAL	TOTAL ON ORDER							
		CLASS CODE	SERIAL NUMBER	MFG PART OR DWG. NUMBER													AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT										
164.3					WRENCH, SPANNER, FACE, PIN TYPE FSC NOMENCLATURE: WRENCH, SPANNER		Est 45		CFE																							
																CONTRACT NO. AF 04(647)-370																
																CONTRACT NO. AF 04(647)-346																
																576-C																
																567																
																548																
																706																
																549																
																CONTRACT NO. AF 04(647)-453																
																CONTRACT NO. AF 04(647)-605																
																576-D																
																576-E																
																550																
																551																
																577																
																578																
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																556																
																ATC																

(4) NOMENCLATURE: (PNS) Preferred - Wrench, Spanner, Face, Pin Type.

The item is designed to remove the plug from electro-hydraulic servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac Gage Co. The wrench is made of 7/8-inch diameter round steel stock approximately 1-7/8 inches long, and has a T-type handle 3 inches long. Two pins, 0.123-inch in diameter, 0.156-inch long, and spaced 0.329-inch center to center, are fixed to the face of the wrench. The wrench weighs approximately 1/2-pound.

(5) PROBLEM AREA: A pin type spanner wrench is required at the depot to remove the valve sleeve plug from servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac Gage Co. The plug must be removed to facilitate renewal of O-rings on the valve sleeve. The servo valves are part of the vernier and sustainer actuating systems.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER. 164.3

Use Current List of Effective Pages as guide for inserting Revision Pages.

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961		LIST NUMBER: AP60-1045																	
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.																	
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																			
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)										
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER									
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																													
164.4		Cadillac Gage Co. 1866 Whitter Avenue Costa Mesa, California T15-371			CAP, PRESSURE TEST, SERVO VALVE FSC NOMENCLATURE: CAP, TEST, SERVO VALVE		Est 80																										
																	CONTRACT NO. AF 04(647)-370																
																	CONTRACT NO. AF 04(647)-346																
																	576-C																
																	567																
																	548																
																	706																
																	549																
																	CONTRACT NO. AF 04(647)-453																
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																	551																
																	577																
																	578																
																	579																
																	556																
																	ATC																

(4) NOMENCLATURE: (PNS) Preferred - Cap, Pressure Test, Servo valve.

This item is designed to replace the valve cap during testing procedures on electro-hydraulic servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac Gage Co. The recessed cap is round in shape, 7/8-inch high, and has a rectangular base approximately 2-1/8 inches long and 1-3/4 inches wide. A standard 1/4-18 NPTF male connector with a swivel nut 90 degree elbow is mounted on the top of the cap. An electrical connector assembly is mounted on one side. Eight holes drilled through the base accommodate cap and valve mounting screws.

(5) PROBLEM AREA: A test cap is required at the depot for testing the internal cap pressure of servo valves 27-04208-1 and 27-04209-1, manufactured by Cadillac Gage Co., after renewal of the valve O-rings. The test cap must have an electrical connection for supplying current to the internal valve motor. In addition, a method must be provided to allow a zero to 1500 psi test gage to be connected to the test cap. The servo valves are part of the vernier and sustainer actuating systems.

(18) REMARKS: § This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER. 164.4

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONTRACT NO.		REV.																					
		CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		(See Column 7)																					
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)												
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY ISSUES & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF PROPOSAL APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER									
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																															
165.3		27-9-100-1			TOOL, HANDLING, MISSILE TANK FUEL SENSING PROBE																														
		EID-27-9260			FSC NOMENCLATURE: HANDLING TOOL, PROPELLANT SENSING PROBE																														
(4) NOMENCLATURE: (PNS) Preferred - Tool Handling, Missile Tank Fuel Sensing Probe.					(18) REMARKS: This item is used at the missile assembly and/or launcher area.																														
This item is used to facilitate installation of the fuel sensing probe into the missile fuel tank. The tool consists of a 1-1/2-inch diameter aluminum tubular handle approximately 19 inches long. Welded to one end of the handle are two 6-inch long, 1-1/4-inch angles spaced approximately 3.4 inches apart. In the end of each angle is a hole used to align the handling tool with the probe flange mounting holes.					† The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS. ‡ The item provisioned for complex 576-C will also support complexes 576-D and E. § The item provisioned for OSTF No. 1 will also support OSTF No. 2.																														
The approximate over-all dimensions are 25 inches long by 6 inches wide. The approximate weight is 2 pounds.																																			
(5) PROBLEM AREA: The length of the missile tank fuel sensing probe is approximately 15 inches. During installation, the internal end of the probe must be guided into a probe support assembly located inside the missile tank. To facilitate this maneuver, a handling tool of suitable length, light weight construction, and the ability to be attached to the probe mounting flange is required.																																			
																		CONTRACT NO. AF 04(647)-370																	
																		OSTF No. 1	*			1											1		
																		CONTRACT NO. AF 04(647)-346																	
																					1/22/60	576-C	*				1							1	
																						567	*				1							1	
																						548	*				1							1	
																						706					†								
																						549	*				†								
																		CONTRACT NO. AF 04(647)-453																	
																		OSTF No. 2	*			#													
																		CONTRACT NO. AF 04(647)-605																	
																						576-D	*				‡								
																						576-E	*				‡								
																						550	*				1							1	
																						551	*				1							1	
																						577	*				1							1	
																						578	*				1							1	
																						579	*				1							1	
																						556	*				1							1	
																		ATC																	

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 165.3



USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV :

The powerstat control, switches, indicator light, ac ammeter, and dc ammeter are located on front of the panel. Connectors are located on the side of the panel for the leads from the magnetizer base. The magnetizer base has two coils and measures approximately 12 inches long, 6 inches wide, and 10 inches high.

(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.

Adapter Plate, Hydraulic Stand Flushing:

This item is an aluminum alloy plate 2-1/4 inches long, 1-3/4 inches wide, and 1/2-inch thick with holes drilled at various locations to facilitate flushing of the electric and hydraulic system components, test stand, Model 46-101 (Moog P/N T-4386).

Bushing Blank:

This tool is used in place of the existing servovalve bushing to prevent the bushing and spool assembly from becoming magnetized during tests. The tool is 3.83 inches long and 0.257-inch in diameter.

Cable, Power Electrical:

This item is used to connect Moog servovalves to a power supply for valve testing purposes. The cable consists of two conductor 0.145-inch od wire. The cable length is 18 inches with an AN3106A-145-2P connector on one end and an AN3106A-10SL-3S connector on the other end.

(5) PROBLEM AREA: Servovalves (Moog P/N M7770, GD/A Spec 27-08550; Moog P/N 21-178, GD/A Spec 27-04208; and Moog P/N 21-179, GD/A Spec 27-04209) are components of the missile guidance system. The servocontrol amplifiers on these valves must be tested and adjusted to ensure the proper relationship between electrical inputs and hydraulic-pressure outputs.

Equipment is required which will facilitate this operation.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS										A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)				
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	QUANTITY	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT	SUB TOTAL	TOTAL ON ORDER	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																							
166.1		MBAC 4920-715-8347			TEST STAND, STATIC-FLOW, Moog Servocontrols, Inc. East Aurora, N.Y. T-4509		Est 2,500			CFE																	
(4) NOMENCLATURE: (PNS) Preferred - Test Stand, Staticflow, Servomechanism.					Equipment is required to facilitate this check.																						
This is a caster-mounted, bench-type test stand equipped with brake pads to stabilize the stand while in use. The stand is fitted with drawers and a cabinet below the working surface and an instrument panel on top and to the rear of the working surface. Six pressure gages with ranges between zero to 600 psi and zero to 5000 psi, four flowmeters with ranges between 0.01 to 0.45 cis and zero to 60 cis, a zero to 10 milliammeter, a zero to 160 deg F thermometer, and accumulator, valves, and regulators are mounted on this instrument panel. The stand measures approximately 64 inches long, 30 inches wide, and 64 inches high over-all.					§ This item is documented for the depot in Report No. ZM-7-357.																						
(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773, GD/A Spec 27-08550) and servo-valves (Moog P/N 21-177, GD/A Spec 27-04208; and Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. This assembly and these valves must be checked for static performance, input current, load pressure, output flow and pressure following overhaul.																											
																		CONTRACT NO. AF 04(647)-680									
																		OSTF No. 1				*					
																		CONTRACT NO. AF 04(647)-694									
																		576-C				*					
																		567				*					
																		548				*					
																		706				*					
																		549				*					
																		CONTRACT NO. AF 04(647)-453									
																		OSTF No. 2				*					
																		CONTRACT NO. AF 04(647)-605									
																		576-D				*					
																		576-E				*					
																		550				*					
																		551				*					
																		577				*					
																		578				*					
																		579				*					
																		556				*					
																		ATC									

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 166.1

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS			A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV.:																										
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																							
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #S	SUB TOTAL	TOTAL ON ORDER																				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																										
166.9		4920-691-4338			GAGE, ALIGNMENT, SERVOMECHA-NISM		Est 30																																							
																		CONTRACT NO. AF 04(647)-680																												
																				12/19/61																										
																		CONTRACT NO. AF 04(647)-694																												
																						576-C																								
																						567																								
																						548																								
																						706																								
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																		CONTRACT NO. AF 04(647)-453																												
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																						556																								
																						ATC																								

(4) NOMENCLATURE: (PNS) Preferred - Gage, Alignment, Servomechanism.

This gage resembles an inverted T and is fabricated from steel stock. The gage measures approximately 4 inches long, 2 inches wide, and 3.12 inches high. The stem of the T is offset 1/2 inch from center. Three holes spaced 0.218 inch center to center are located along a line 0.73 inch below the top of the gage. The center hole is drilled 0.120 inch in diameter; the outer holes are tapped to a 4-40 thread.

(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773, GD/A Spec 27-08550) and servo-valves (Moog P/N 21-177, GD/A Spec 27-04208; Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. Flapper alignment of these servovalves and the servovalve which is part of servoactuator assembly must be checked during overhaul.

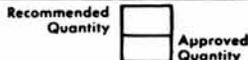
A gage is required to facilitate performance of this task.

(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.

ITEM NUMBER: 166.9

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.



Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)				
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	QTY	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	#	DEPOT	SUB TOTAL	TOTAL ON ORDER		
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																									
166.10		5210-795-3075			GAGE SET, SERVOMECHANISM		Est 60																						
					<p>(4) NOMENCLATURE: (PNS) Preferred - Gage Set, Servomechanism.</p> <p>This item comprises a set of 5 gages manufactured from beryllium copper. Over-all, each gage measures approximately 3/4 inch long, 1 inch wide, and 3/4 inch high. A 7/16-inch diameter hole is bored through the center of one end of each gage to a depth of 0.590 inch. Polepiece spacers are machined to a depth of 0.172 inch on the top and bottom and a thickness of 0.072, 0.074, 0.076, 0.078, and 0.080 inch respectively for the five gages.</p> <p>(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773, GD/A Spec 27-08550) and servovalves (Moog P/N 21-177, GD/A Spec 27-04208; Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. Gap clearances of the polepieces of the servovalves and the servovalve which is a component of the servoactuator assembly must be aligned and set during assembly following overhaul.</p> <p>A set of special gages is required to facilitate this operation. The gages supplied must be designed to set clearances of 0.072, 0.074, 0.076, 0.078, and 0.080 inch.</p>										<p>(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.</p> <p>§ This item is documented for the depot in Report No. ZM-7-357.</p>					<p>CONTRACT NO. AF 04(647)-680</p> <p>OSTF No. 1</p> <p>12/19/61</p> <p>CONTRACT NO. AF 04(647)-694</p> <p>576-C</p> <p>567</p> <p>548</p> <p>706</p> <p>549</p> <p>CONTRACT NO. AF 04(647)-453</p> <p>OSTF No. 2</p> <p>CONTRACT NO. AF 04(647)-605</p> <p>576-D</p> <p>576-E</p> <p>550</p> <p>551</p> <p>577</p> <p>578</p> <p>579</p> <p>556</p> <p>ATC</p>									

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 166.10



USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS			A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:												
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)								
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	QTY	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #S	SUB TOTAL	TOTAL ON ORDER					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																											
166.12		4920-691-4341			FIXTURE, ASSEMBLY, SERVO-MECHANISM		Est 45			CFE																					
																	CONTRACT NO. AF 04(647)-680														
																	OSTF No. 1				*										
																	CONTRACT NO. AF 04(647)-694														
																	576-C				*										
																	567				*										
																	548				*										
																	706														
																	549				*										
																	CONTRACT NO. AF 04(647)-453														
																	OSTF No. 2				*										
																	CONTRACT NO. AF 04(647)-605														
																	576-D				*										
																	576-E				*										
																	550				*										
																	551				*										
																	577				*										
																	578				*										
																	579				*										
																	556				*										
																	ATC														

(4) NOMENCLATURE: (PNS) Preferred - Fixture, Assembly, Servomechanism.

This fixture comprises a steel base plate and two clamps. The base plate measures approximately 6 inches long, 5 inches wide, and 1 inch thick. The two clamps are positioned on the base plate; one to hold the nozzle block of the servovalve, the other to position the flapper sleeve assembly accurately. A set screw on the top of the fixture is designed to exert pressure on a hinged arm which holds the assembly during installation of the holding screws.

(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773, GD/A Spec 27-08550) and servovalves (Moog P/N 21-177, GD/A Spec 27-04208; Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. The flapper must be positioned to the nozzle block of these servovalves and the servovalve which is a component of the servoactuator assembly during assembly of these valves following overhaul.

A fixture is required to facilitate this operation.

(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 166.12

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)											
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	MFG. PART OR DWG. NUMBER	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT	SUB TOTAL	TOTAL ON ORDER								
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																														
166.13		5120-831-3368			SCREWDRIVER, SPECIAL, FILTER PLUG, SERVOMECHANISM		Est 2			CFE																								
																		CONTRACT NO. AF 04(647)-680																
																		OSTF No. 1				*												
																		CONTRACT NO. AF 04(647)-694																
																		576-C				*												
																		567				*												
																		548				*												
																		706																
																		549				*												
																		CONTRACT NO. AF 04(647)-453																
																		OSTF No. 2				*												
																		CONTRACT NO. AF 04(647)-605																
																		576-D				*												
																		576-E				*												
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																		579				*												
																		556				*												
																		ATC																

(4) NOMENCLATURE: (PNS) Preferred - Screwdriver, Special Filter Plug, Servomechanism.

This is a conventional-type screwdriver approximately 6 inch long over-all with a 2 inch long blade. The blade tip is slotted to form two tips, 0.230 inch apart by 0.06 inch long.

(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773, GD/A Spec 27-08550) and servovalves (Moog P/N 21-177, GD/A Spec 27-04208; Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. The filter plug assembly which is a part of these servovalves and the servovalve which is a component of the servoactuator assembly must be installed and/or removed during overhaul of the servovalves.

A modified screwdriver is required to facilitate this operation.

(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 166.13

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS			A DIVISION OF GENERAL DYNAMICS CORPORATION							SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:										
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TYPE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
166.14		4920-691-4331			ALIGNMENT		Est																			
		Moog Servocontrols, Inc.			TOOL,		20																			
		East Aurora, N.Y.			SERVOMECHA-																					
		T-3756			NISM																					
<p>(4) NOMENCLATURE: (PNS) Preferred - Alignment Tool, Servomechanism.</p> <p>This is a beryllium copper tool approximately 0.250 inch square by 1.75 inch long. One end is machined to a 2-degree taper 0.53 inch long. A 0.08 inch diameter hole is drilled to a depth of 0.96 inch. The outer end of this hole is increased to 0.193 inch diameter to a depth of 0.40 inch. A slot of 0.117 inch wide is milled through the hole with the greater diameter.</p> <p>(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773, GD/A Spec 27-08550) and servovalves (Moog P/N 21-177, GD/A Spec 27-04208; Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. An air-gap motor is a part of these servovalves and the servovalve component of the servoactuator assembly. The shunt plates on this air-gap motor must be aligned and/or centered during overhaul.</p> <p>A tool is required to facilitate this task.</p> <p>(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.</p> <p>§ This item is documented for the depot in Report No. ZM-7-357.</p>																		<p>CONTRACT NO. AF 04(647)-680</p>								
															12/19/61			OSTF No. 1					*			
<p>CONTRACT NO. AF 04(647)-694</p>																										
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<p>CONTRACT NO. AF 04(647)-453</p>																										
																		OSTF No. 2					*			
<p>CONTRACT NO. AF 04(647)-605</p>																										
																		576-D					*			
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By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 166.14



USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS										A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:												
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)								
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																							#	\$			
166.16		4920-691-4334			FIXTURE, ASSEMBLY AND TEST, SERVO MECHANISM		Est 50																								
																		CONTRACT NO. AF 04(647)-680													
																		OSTF No. 1					*								
																		CONTRACT NO. AF 04(647)-694													
																		576-C					*								
																		567					*								
																		548					*								
																		706					*								
																		549					*								
																		CONTRACT NO. AF 04(647)-453													
																		OSTF No. 2					*								
																		CONTRACT NO. AF 04(647)-605													
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																		556					*								
																		ATC													

(4) NOMENCLATURE: (PNS) Preferred - Fixture, Assembly and Test, Servomechanism.

This is a 3-inch square by 2-3/8-inch high stainless steel block. Mounting holes are provided at the top of the fixture for the nozzle-block assembly. Two holes, counterbored for O-rings, in the bottom of the fixture and three holes in the top permit connecting a source of hydraulic fluid to the nozzle-block assemblies. Openings in one side of the fixture are provided to accommodate two filter assemblies.

Two threaded insertion pins are mounted face to face on the top of the fixture. One end of these pins is machined to a diameter of 0.150 inch. The opposite end is machined to a 1/2-inch square. Rotating these pins presses nozzles into the nozzle-block assembly.

(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773, GD/A Spec 27-08550) and servovalves (Moog P/N 21-177, GD/A Spec 27-04208; Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. Nozzle-block and filter assemblies which are a part of these servovalves and the servovalve component of the servoactuator assembly must be tested for hydraulic-flow rate during overhaul.

Equipment is required which will facilitate this operation. The equipment supplied must be designed to insert nozzles into the nozzle block.

(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 166.16





USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)																				
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	M/N/S	UNIT PRICE	C/O/S	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #/S	SUB TOTAL	TOTAL ON ORDER																			
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																									
166.23					Moog Servocontrols, Inc. East Aurora, N. Y. T-3221	INSTALLING TOOL, O-RING SERVOMECHAN- ISM		Est 12																																					
																		CONTRACT NO. AF 04(647)-680																											
																		OSTF No. 1																											
																		CONTRACT NO. AF 04(647)-694																											
																		576-C																											
																		567																											
																		548																											
																		706																											
																		549																											
																		CONTRACT NO. AF 04(647)-453																											
																		OSTF No. 2																											
																		CONTRACT NO. AF 04(647)-605																											
																		576-D																											
																		576-E																											
																		550																											
																		551																											
																		577																											
																		578																											
																		579																											
																		556																											
																		ATC																											

(4) NOMENCLATURE: (PNS) Preferred - Installing Tool, O-Ring, Servomechanism.

This tool is fabricated from brass and measures 0.250 inch in diameter and 0.580 inch long overall. The tool resembles two truncated cones joined at the apex which has a diameter of 0.058 inch. The larger of the truncated cones is 0.500 inch long and tapers from a diameter of 0.250 inch at the base. The other truncated cone is 0.080 inch long with an 18 degree taper.

(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773; GD/A Spec 27-08550) and servo-valves (Moog P/N 21-177, GD/A Spec 27-04208; Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. Adjuster O-rings must be installed on these servovalves and the servovalve which is a part of the servoactuator assembly during overhaul of these valves.

A tool is required to facilitate this task.

(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.

§ This item is documented for the depot in Report No. ZM-7-357.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 166.23

Use Current List of Effective Pages as guide for inserting Revision Pages.



USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)																					
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MFG.	UNIT PRICE	MFG. P/N	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF AIDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT	SUB TOTAL	TOTAL ON ORDER																				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																										
166.25					DRIVER PLUG, BUSHING, SERVOMECHANISM		Est 1			CFE																																				
																		CONTRACT NO. AF 04(647)-680																												
																		OSTF No. 1																												
																		CONTRACT NO. AF 04(647)-694																												
																		576-C																												
																		567																												
																		548																												
																		706																												
																		549																												
																		CONTRACT NO. AF 04(647)-453																												
																		OSTF No. 2																												
																		CONTRACT NO. AF 04(647)-605																												
																		576-D																												
																		576-E																												
																		550																												
																		551																												
																		577																												
																		578																												
																		579																												
																		556																												
																		ATC																												

(4) NOMENCLATURE: (PNS) Preferred - Driver Plug, Bushing, Servomechanism.

This item, fabricated from cylindrical solid-nylon stock, measures 3 inches long and 1/2 inch in diameter.

(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773, GD/A Spec 27-08550) and servovalves (Moog P/N 21-177, GD/A Spec 27-04208; Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. Bushings must be removed from the body of these servovalves and the servovalve which is a part of the servoactuator assembly, during overhaul of these servovalves.

A bushing driver is required to facilitate this task.

(18) REMARKS: #This item is used at depot level overhaul but is not required at GD/A depot.

§This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 166.25

Use Current List of Effective Pages as guide for inserting Revision Pages.



USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)																						
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	CAGE CODE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT	SUB TOTAL	TOTAL ON ORDER																					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																							AT	LAUNCHERS	LCC'S	GUID. STAS	SMA	GENERAL	DEPOT														
166.27					ALIGNMENT TOOL, SERVO-MECHANISM		Est 30																																								
																		CONTRACT NO. AF 04(647)-680																													
																		OSTF No. 1																													
																		CONTRACT NO. AF 04(647)-694																													
																		576-C																													
																		567																													
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																		706																													
																		549																													
																		CONTRACT NO. AF 04(647)-453																													
																		OSTF No. 2																													
																		CONTRACT NO. AF 04(647)-605																													
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																		579																													
																		556																													
																		ATC																													

(4) NOMENCLATURE: (PNS) Preferred - Alignment Tool, Servomechanism.

This alignment tool is fabricated from 1-inch diameter drill-rod stock and measures 1.12 inches long. A concentric hole 0.626 inch in diameter is drilled longitudinally through the length of the tool. One end is knurled. A slot with a radius of 0.20 inch centered on a diameter 0.556 inch from the center of the tool is milled longitudinally for a length of 0.31 inch from the other end.

(5) PROBLEM AREA: Servoactuator assembly (Moog P/N M7773, GD/A Spec 27-08550) and servovalves (Moog P/N 21-177, GD/A Spec 27-04208; Moog P/N 21-178, GD/A Spec 27-04209) are components of the missile guidance system. Bushing assemblies in the bodies of these servovalves and the servovalve which is a part of the servoactuator assembly must be aligned during overhaul of the servovalves.

A tool is required to facilitate performance of this task.

(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.

§This item is documented for the depot in Report No. ZM-7-357.

Recommended Quantity



Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 166.27



611

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO.		REV									
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.		(See Column 7)									
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)		
ITEM SEQUENCE	GSE SPEC PARC NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF PRODUCTION APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	IN DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
167.1		Southwestern Valve Corp.			FIXTURE ASSY, NITROGEN PURGE SOLENOID VALVE, LEAK TEST		Est 150																		
		Santa Ana, California TK-5103			FSC NOMENCLATURE: FIXTURE, LEAK TEST, SOLENOID VALVE																				
(4) NOMENCLATURE: (PNS) <u>Preferred</u> - Fixture Assembly, Nitrogen Purge Solenoid Valve, Leak Test.					(18) REMARKS: This item is used in the hydraulic-pneumatic shop at the MAB.																				
This item is made of aluminum and is approximately 7-1/2 inches long, 4-1/2 inches wide, 3-1/2 inches high overall, and weighs approximately 5 pounds. The fixture consists of a yoke, a 3-1/2 inch by 1/2-inch socket head bolt, and a 3-1/2-inch long, 2-1/2-inch wide, 1-1/16-inch thick base plate. The plate and 2 O-ring seals mate with the inlet ports of the valve. The plate also contains two tapped holes for connection to a pressure source. The solenoid valve is placed inside the yoke, and the plate is mated with the inlet ports. The bolt is then turned until the inlet ports are sealed.					This item is used in conjunction with Stand, Test Electrical-Hydraulic-Pneumatic System Components, item 22 in Rocketdyne Report No. R-1221.																				
(5) PROBLEM AREA: A fixture is required to facilitate leak testing of nitrogen purge solenoid valve (27-02106) which is part of the launcher purge system. The fixture must mate with the two inlet ports on the valve and provide a means of connecting a pressure source.					§ This item is documented for the depot in Report No. ZM-7-357.																				
					¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also serve the Series E requirement at 706 SSS and 549 SMS.																				
					‡ The Series D item provisioned for complex 576-A will also support complex 567-C and OSTF No. 1.																				
					† The item previously provisioned for complex 576-C will be reallocated to Series F.																				
					By AF direction at the 24 to 28 October 1960 provisioning conference, this item is to be incorporated as a part of item 5078 at a later date by ECP action.																				
																	CONTRACT NO. AF 04(647)-370								
																	OSTF No. 1								
																	CONTRACT NO. AF 04(647)-346								
																	576-C								
																	9/14/60								
																	567								
																	548								
																	706								
																	549								
																	CONTRACT NO. AF 04(647)-453								
																	OSTF No. 2								
																	CONTRACT NO. AF 04(647)-605								
																	576-D								
																	576-E								
																	550								
																	551								
																	577								
																	578								
																	579								
																	556								
																	ATC								

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER. 167.1

Page 1 of 1



USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS													CONTRACT NO		REV									
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION															SAN DIEGO, CAL.		(See Column 7)									
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY ACCESS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF PRODUCTION APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT S.M.A.	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
169.2		MBAC 4935-792-8034			FIXTURE, TEST, NITRO-GEN CONTROL UNIT (ZERO TO 150 PSI)		Est 180																			
		Accessory Products			FSC NOMENCLATURE: TESTER, FLUID PRESSURE																					
		891684T																								
					<i>MBAC #935-792-8024 1ea.</i>																					
(4) NOMENCLATURE: (PNS) Preferred - Fixture, Test, Nitrogen Control Unit (NCU) (Zero to 150 psi.)					¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.																					
This item consists of a valve with connecting stainless steel tubing and fittings, and a Helicoid Model 410R, 1/4 percent accuracy, zero to 150 psi gage. The gage, inlet pressure control valve, and outlet connections are joined on a 3-port tee to form the test fixture. The fixture measures approximately 10 inches high, 10 inches wide, and weighs approximately 6 pounds.					‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.																					
(5) PROBLEM AREA: A pneumatic pressure test fixture with gage is required to perform a pneumatic pressure check of the propellant utilization exerciser pressure line outlet of the nitrogen control unit, item 1103. Pressures tested are in the 95 to 105 psi range. Test fixture connections must be compatible with the outlet on the nitrogen control unit (NCU), marked "PU EXERCISER". Gage accuracy must be 1/4 of 1 percent or better. In addition to the NCU, the fixture will have other general purpose pressure test applications.																										
(18) REMARKS: This item is located in the hydraulic pneumatic shop at the SMA and used in the SMA and launcher areas.																										
															CONTR..CT NO. AF 04(647)-370											
															OSTF No. 1											
															CONTRACT NO AF 04(647)-346											
															4/14/60		576-C		1		1					
																	567		1		1					
																	548		1		1					
																	706		¶							
																	549		¶							
															CONTRACT NO AF 04(647)-453											
															OSTF No. 2											
															CONTRACT NO AF 04(647)-605											
															5/24/60		576-D		‡							
																	576-E		‡							
																	550		1		1					
																	551		1		1					
																	577		1		1					
																	578		1		1					
																	579		1		1					
																	556		1		1					
															ATC		T-321 (1)									

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages

ITEM NUMBER 169.2





134

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045														
SM-65		CONVAIR-ASTRONAUTICS													CONTRACT NO. (See Column 7)		REV.:														
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION															SAN DIEGO, CAL.																
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)								
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	MFG. PART OR DWG. NUMBER	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF JARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																											
169.5		Accessory Products Co., 616 W. Whittier Blvd. Whittier, California 891681T			FIXTURE, TEST, NITRO- GEN CONTROL UNIT (ZERO TO 6,000 PSI) FSC NOMENCLATURE: TESTER, FLUID PRESSURE		Est 215						CFE																		
<p>(4) NOMENCLATURE: (PNS) Preferred - Fixture, Test Nitrogen Control Unit (NCU) (Zero to 6,000 psi).</p> <p>This item consists of a valve and connecting high pressure stainless steel tubing and fittings, and a Helicoid model 430L, 1/2 percent accuracy, zero to 6,000 psi gage. The gage, inlet pressure control valve, and outlet connections are joined on a 3 port tee to form the test fixture. The fixture measures approximately 10 inches high, 10 inches wide, and weighs approximately 6 pounds.</p> <p>(5) PROBLEM AREA: A pneumatic pressure test fixture with gage is required to perform a pneumatic pressure check of charge panel pressure line outlet of the nitrogen control unit. Pressures tested are in the 4,400 to 4,600 psi range. Test fixture connections must be compatible with the outlet on the NCU, marked "CHARGE PANEL". Gage accuracy must of 1/2 of 1 percent or better. In addition to the NCU, the fixture will have other general purpose pressure test applications.</p> <p>(18) REMARKS: This item is located in the hydraulic pneumatic shop at the SMA.</p> <p>¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.</p>																															
																		CONTRACT NO. AF 04(647)-370													
																		OSTF No. 1													
																		CONTRACT NO. AF 04(647)-346													
																		4/14/60	576-C			1								1	
																			567				1								1
																			548				1								1
																			706				¶								
																			549				¶								
																		CONTRACT NO. AF 04(647)-453													
																		OSTF No. 2													
																		CONTRACT NO. AF 04(647)-605													
																			576-D				‡								
																			576-E				‡								
																		5/25/60	550				1								1
																			581				1								1
																			577				1								1
																			578				1								1
																			579				1								1
																			556				1								1
																			ATC												

*MBAC #935-797-2041 sea.*

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.  
 ITEM NUMBER: 169.5  
 Page 1 of 1







USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.							
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)		
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF DESIGN APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	IN DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
174.1					WRENCH, SPANNER, KEY TYPE				CFE																
		Langley Corp. 310 Euclid Ave. San Diego, Calif. T-12345																							
(4) NOMENCLATURE: (PNS) <u>Preferred</u> - Wrench, Spanner, Key Type.					Equipment is required to perform this function. The equipment chosen must be compatible with the ball plug which is 1-inch in diameter, 0.348-inch thick, and has a 0.22-inch deep, 0.88-inch diameter concave recess cut into the face. Two 0.078-inch notches, 180 degrees apart, are cut within the recess.																				
This item is used for installing, removing and adjusting the ball plug of the swivel joint and gimbal assemblies (27-02288, 27-02289, and 27-02291). The wrench is fabricated of round steel stock 7/8-inch in diameter and 4 inches long. A T-type nandle at one end of the wrench is 1/4-inch in diameter and 3 inches long.					(18) REMARKS: This item is used in the hydraulic-pneumatic shop at the missile assembly building.																				
The other end is reduced in diameter to 0.7-inch for a distance of 0.15-inch. A slot, 0.7-inch deep and 0.065-inch wide, on this end accommodates a 7/8-inch long, 0.625-inch wide and 0.065-inch thick blade. The blade is locked in place with a No. 10 standard set screw. The approximate weight is 1-pound.					¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will support the 549th SMS.																				
(5) PROBLEM AREA: During maintenance operations on the swivel joint and gimbal assembly (component of the launcher service lines and equipment installation 27-49501), the inner ball plug (20666) must be adjusted, removed and/or installed.					§ This item is documented for the depot in Report No. ZM-7-357.																				
					‡ The item provisioned for complex 576-C will also support OSTF No. 1.																				
																	CONTRACT NO. AF 04(647)-370								
																	OSTF No. 1								
																	CONTRACT NO. AF 04(647)-346								
																	9/13/60		576 C		1		1		
																			567		1		1		
																			548		1		1		
																			706						
																			549						
																	CONTRACT NO. AF 04(647)-453								
																	OSTF No. 2								
																	CONTRACT NO. AF 04(647)-605								
																	576 D								
																	576 E								
																	550								
																	551								
																	577								
																	578								
																	579								
																	556								
																	ATC								

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 174.1







129

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045										
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.								
(1)	(2)	(3) STOCK NUMBER			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC PARA. NO.	CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER	NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER	
180					Sterer Engineering and Manufacturing Co North Hollywood, Calif. T-1219	FIXTURE ASSY, GUIDE AND ALIGNMENT		1030009	CFE																	
					<p>(4) NOMENCLATURE: (PNS) Preferred - Fixture Assembly, Guide and Alignment.</p> <p>This assembly consists of a guide and pin fabricated of steel. The approximate over-all dimensions are 2-1/16 inches long, and 1-1/4 inches in diameter. The total weight is approximately 1-pound.</p> <p>The guide comprises a collar and body. The collar is approximately 1-1/4 inches in diameter for a length of 1/4-inch. The body is 0.6870-inch in diameter for a length of 1-1/4 inches and then reduced to 0.62-inch diameter for the remainder of its length. Longitudinally through the center of the guide is a 0.2508-inch hole (plus 0.0002, minus 0.0000).</p> <p>The pin is approximately 1-3/16 inches long. One end of the pin is 7/16-inch in diameter for a length of 1/4-inch then reduced to 0.2505-inch diameter for the remaining length.</p> <p>(5) PROBLEM AREA: During reassembly of the missileborne hydraulic vernier flow control valve (27-04206) a piston pin must be press fitted into the outlet body of the valve. The hole for accommodating this pin is recessed 1.64 inches inside the valve</p>																					
					<p>body and is 0.2498-inch in diameter, and 0.36-inch long. The valve body has a 0.6875-inch id. and the pin has a maximum diameter of 0.2503-inch over-all.</p> <p>Equipment is required during this installation to prevent shearing of the body and damage to the pin. The equipment must be able to guide and hold the pin in proper position while the pin is pressed into place with an arbor press.</p> <p>(18) REMARKS: This item is used in the hydraulic-pneumatic shop at the missile assembly building.</p> <p>† The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>‡ The Series D item provisioned for complex 576-B will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.</p> <p>† The item previously provisioned for complex 576-C will be reallocated to Series F.</p>																					
																	CONTRACT NO. AF 04(647)-370									
																	OSTF No. 1									
																	CONTRACT NO. AF 04(647)-346									
																	576-C									
																	567					1				
																	548					1				
																	706					†				
																	549					†				
																	CONTRACT NO. AF 04(647)-453									
																	OSTF No. 2									
																	CONTRACT NO. AF 04(647)-605									
																	576-D					‡				
																	576-E					‡				
																	550					1				
																	551					1				
																	577					1				
																	578					1				
																	579					1				
																	556					1				
																	ATC									

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER 180

Use Current List of Effective Pages as guide for inserting Revision Pages.

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.																			
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)														
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LAB. CENTER & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER											
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																	
180.1					STERER Engineering and Manufacturing Co North Hollywood, Calif. T-1077-1	FIXTURE ASSY, GUIDE AND ALIGNMENT FSC NOMENCLATURE: FIXTURE, GUIDE			1030009																												
(4) NOMENCLATURE: (PNS) Preferred - Fixture Assembly, Guide and Alignment.					valve body has a 0.686-inch id. and the pin has an over-all diameter of 0.1722-inch.																																
This assembly consists of a guide and pin fabricated of steel. The approximate over-all weight is 1-pound.					Equipment is required during this installation to prevent shearing of the body and damage to the pin. The equipment must be able to guide and hold the pin in proper position while the pin is pressed into place with an arbor press.																																
The guide comprises a head and body. The head is approximately 1-1/4 inches in diameter for a length of 1/4-inch. The body is 0.6868-inch in diameter for a length of 1-1/4 inches and then reduced to 0.62-inch diameter for the remainder of its length. Longitudinally through the center of the guide is a 0.1730-inch hole (plus 0.0002, minus 0.0000). The guide measures 1.84 inches long, and 1-1/4 inches diameter over-all.					(18) REMARKS: This item is used in the hydraulic-pneumatic shop at the missile assembly building.																																
The pin is approximately 1.15 inches long. One end of the pin is 0.171-inch diameter for a length of 1-inch then reduced to 0.15-inch diameter for the remaining length.					† The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.																																
(5) PROBLEM AREA: During reassembly of the missileborne hydraulic flow control valve (27-08568) a piston pin must be press fitted into the outlet body of the valve. The hole for accommodating this pin is recessed 1.79 inches inside the valve body and is 0.1717-inch in diameter, and 0.255-inch long. The					‡ The Series D item provisioned for complex 576-B will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.																																
					† The item previously provisioned for complex 576-C will be reallocated to Series F.																																
																		OSTF No. 1																			
																		CONTRACT NO. AF 04(647)-346																			
																		576-C																			
																		567																		1	
																		548																		1	
																		706																			
																		549																			
																		OSTF No. 2																			
																		CONTRACT NO. AF 04(647)-605																			
																		576-D																			
																		576-E																			
																		550																			1
																		551																			1
																		577																			1
																		578																			1
																		579																			1
																		556																			1
																		ATC																			

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 180.1

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 April 1961

LIST NUMBER: AP10-1043

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV.: A Dec '61

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)	
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MFG. P/N	UNIT PRICE	MFG. P/N	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPO#	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
182					WRENCH, SPANNER, KEY TYPE		Est 35																			
					<p>(4) NOMENCLATURE: (PNS) Preferred - Wrench, Spanner, Key Type.</p> <p>This item consists of a cadmium-plated flat-steel handle which measures approximately 14 inches long, 1 inch wide, and 0.25 inch thick with a double-ended, flat-steel key installed on one end. The key measures approximately 4.88 inches long, 2.25 inches wide, and 0.25 inch thick. The key is I-shaped and protrudes about 1 inch on each side of the handle. These protrusions form prongs which measure approximately 0.30 inch by 0.25 inch, and are 4.28 inches apart on one side of the handle; and 0.25 inch by 0.25 inch, and 3.38 inches apart on the other side. The wrench weighs approximately 3 pounds.</p> <p>(5) PROBLEM AREA: An inner and outer retainer ring (H. W. Loud P/N 1102L111 and 1102L110) are components of the forward telescoping cylinder jack assemblies (H. W. Loud P/N 1102L100, GD/A Spec 27-09206-1) located on the missile handling trailer (Item 19.1.1). The inner ring is approximately 3-1/2 inches in diameter, the outer ring 4-1/2 inches in diameter. Each ring has 4 equally spaced spanner notches around its periphery.</p>										<p>CONTRACT NO. AF 04(647)-680</p> <p>6 mo 9/22/61 OSTF No. 1</p>											
					<p>(18) REMARKS: #This item is used at depot level but is not required at the GD/A depot.</p> <p>§No squadron requirement. Items interim released to the squadrons have been reallocated to the AF depot.</p>										<p>CONTRACT NO. AF 04(647)-694</p> <p>576-C * 567 * 548 * 706 * 549 *</p>											
															<p>CONTRACT NO. AF 04(647)-453</p> <p>OSTF No. 2 *</p>											
															<p>CONTRACT NO. AF 04(647)-605</p> <p>576-D * 576-E * 550 * 551 * 577 * 578 * 579 * 556 *</p>											
															<p>ATC</p>											

ITEM NUMBER: 182

Page 1 of 1

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning Information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F														DATE: 22 April 1961		LIST NUMBER: AP60-1045								
SM-65		ASTRONAUTICS										A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.: A-Dec '61					
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)	
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																				AT LAUNCHERS
182.1		H. W. Loud Machine Works, Inc Pomona, California 1101L120AT			WRENCH, SPANNER, KEY TYPE		40	EST	CFE															
																							CONTRACT NO. AF 04(647)-680	
																							OSTF No. 1	
																							6 mo 9/22/61	
																							CONTRACT NO. AF 04(647)-694	
																							576-C	
																							567	
																							548	
																							706	
																							549	
																							CONTRACT NO. AF 04(647)-453	
																							OSTF No. 2	
																							CONTRACT NO. AF 04(647)-605	
																							576-D	
																							576-E	
																							550	
																							551	
																							577	
																							578	
																							579	
																							556	
																							ATC	

(4) NOMENCLATURE: (PNS) Preferred - Wrench, Spanner, Key Type.

This item consists of a cadmium-lated flat-steel handle which measures approximately 24 inches long, 1.24 inches wide, and 0.37 inch thick, with a blade-type steel key fitted longitudinally onto the center of the handle. The key measures approximately 6 inches long, 0.35 inch wide, and 0.41 inch high. The handle width is tapered 2 degrees approximately 6 inches from each end of the handle. The wrench weighs approximately 3 pounds.

(5) PROBLEM AREA: A piston head (H. W. Loud P/N 1102L103) is a component of the forward telescoping cylinder jack assemblies (H. W. Loud P/N 1102L100, GD/A spec 27-09206-1) located on the missile handling trailer (Item 19.1.1). The piston head measures approximately 6 inches in diameter and has 4 spanner notches 0.35 inch wide, 0.41 inch deep, and are spaced 90 degrees apart.

A special tool is required which will facilitate removal and/or installation of the piston head.

(18) REMARKS: # This item is used at depot level but is not required at the GD/A depot.

§ No squadron requirement. Items interim released to the squadrons have been reallocated to the AF depot.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 182.1

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 January 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)												
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COST PER UNIT	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCSS	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER											
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																	
182.2		H. W. Loud Machine Works Incorporated Pomona, California 1101L122AT			WRENCH, SPANNER					CFE									CONTRACT NO. AF 04(647)-680																		
																		OSTF No. 1					*														
																			CONTRACT NO. AF 04(647)-694																		
															6 mo	9/22/61		576-C					*														
																		567					*														
																		548					*														
																		706					*														
																		549					*														
																			CONTRACT NO. AF 04(647)-453																		
																		OSTF No. 2					*														
																			CONTRACT NO. AF 04(647)-605																		
															6 mo	9/22/61		576-D					*														
																		576-E					*														
																		550					*														
																		551					*														
																		577					*														
																		578					*														
																		579					*														
																		556					*														
																		ATC																			

(4) NOMENCLATURE: Preferred - Wrench, Spanner.

This item is a key-like lug-type spanner wrench consisting of a cadmium plated flat steel handle 0.25 inch thick, 1 inch wide, and 14 inches long. Two 0.25 by 0.25 lugs, 6.28 inches apart project 1 inch from one edge giving a U-shaped key-like silhouette to the wrench. This wrench weighs approximately 2-1/2 pounds.

(5) PROBLEM AREA: The retainer (H.W. Loud P/N 1101L111) is a component of the aft telescoping cylinder assembly (H.W. Loud P/N 1101L100, GD/A Spec 27-09205-1) located on the missile handling trailer (27-91000). The retainer measures approximately 6-3/8 inches in diameter with four equally spaced spanner notches around its periphery.

A spanner-type wrenching tool is required which will facilitate removal and/or installation of this retainer.

(18) REMARKS: #This item is used at depot level but is not required at the GD/A depot.

§No squadron requirement. The eight items interim released to the squadrons are reallocated to the AF depot.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 182.2

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS		A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV.1																							
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF PROG. APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL #S	DEPOT	SUB TOTAL	TOTAL ON ORDER																	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																						
184		6625-600-1342			TEST CONSOLE, INSULATION RESISTANCE	Est 5,200																																				
																	CONTRACT NO. AF 04(647)-680																									
																	OSTF No. 1																									
																	CONTRACT NO. AF 04(647)-694																									
																	576-C																									
																	567																									
																	548																									
																	706																									
																	549																									
																	CONTRACT NO. AF 04(647)-453																									
																	OSTF No. 2																									
																	CONTRACT NO. AF 04(647)-605																									
																	576-D																									
																	576-E																									
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(4) NOMENCLATURE: Preferred - Test Console, Insulation Resistance.

The insulation resistance test console is a universal type tester which measures 22 inches wide, 24 inches deep and 72 inches high and weighs approximately 275 pounds.

This test set, when used with proper patch panels and adapter cables, is designed to test a wide variety of components. These panels and cables provide circuit selection to components undergoing tests. Insulation resistance can be measured between 0.5 megohms and 500,000 megohms. The console is also designed to supply 1000-vdc, 500-vdc and 280-vdc. Power requirements are, 115-v, 60-cps, single-phase ac.

In use, the component to be tested is isolated in a chamber. An automatic shut-off and alarm signal is employed in the event of component breakdown during the one- to sixty-second test. The chamber door has an interlocking safety switch which will restrict component power until the door is securely shut.

(5) PROBLEM AREA: Integrating gyros (Kearfott, P/Ns T 5506-1, -2A, -2A-B, -2A-C, -2A-D, and/or C702506000, GD/A Spec 27-04250-3) are components of the missile guidance system. Prior to applying power to a rate gyro after overhaul it is necessary to check insulation resistance of the gyro's circuitry to prevent any possible damage to the gyro or associated test

equipment due to insulation breakdown.

Equipment is required to facilitate this check.

(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.

This item is used in conjunction with the insulation resistance test console (Item 184.1) and insulation resistance adapter cable (Item 184.2).

§This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 184

Use Current List of Effective Pages as guide for inserting Revision Pages.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 Marcy 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS										A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV.:						
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	QUANTITY	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF FAB. APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #§	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
184.1		Kearfott Division General Precision Inc. Little Falls, New Jersey CO 56825003			PATCH PANEL, INSULATION RESISTANCE		Est 2,500																			
																		CONTRACT NO. AF 04(647)-680								
																		OSTF				*				
																		CONTRACT NO. AF 04(647)-694								
																		576-C				*				
																		567				*				
																		548				*				
																		706				*				
																		549				*				
																		CONTRACT NO. AF 04(647)-453								
																		OSTF				*				
																		CONTRACT NO. AF 04(647)-605								
																		576-D				*				
																		576-E				*				
																		550				*				
																		551				*				
																		577				*				
																		578				*				
																		579				*				
																		556				*				
																		ATC								

(4) NOMENCLATURE: Preferred - Patch Panel, Insulation Resistance.

This item is designed to program the rate gyro which is undergoing insulation resistance testing. The patch panel also makes possible the testing of individual isolated circuits, either with respect to the case or with respect to all other isolated circuits.

(5) PROBLEM AREA: Integrating gyros (Kearfott P/N's T 5506-1, -2A, -2A-B, -2A-C, -2A-D, and/or C702506000, GD/A Spec 27-04250-3) are components of the missile guidance system. Prior to applying power to a rate gyro, after overhaul, it is necessary to check insulation resistance of the gyros circuitry to prevent any possible damage to the gyro or associated test equipment due to insulation breakdown.

Equipment is required which will facilitate programming the gyro during this test.

(18) REMARKS: This item is used in conjunction with insulation resistance test console (Item 184) and insulation resistance adapter cable (Item 184.2).

#This item is used at depot level overhaul but is not required at the GD/A depot.

§This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 184.1

Use Current List of Effective Pages as guide for inserting Revision Pages.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS										A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV.:																								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																					
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MFG. PART OR DWG. NUMBER	UNIT PRICE	MFG. PART OR DWG. NUMBER	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #S	SUB TOTAL	TOTAL ON ORDER																		
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																								
184.2		Kearfott Division General Precision Inc. Little Falls, N.J. CO56825004			ADAPTER CABLE, INSULATION RESISTANCE		Est 1,700																																					
																		CONTRACT NO. AF 04(647)-680																										
																		CONTRACT NO. AF 04(647)-694																										
																		OSTF No. 1																										
																		576-C																										
																		567																										
																		548																										
																		706																										
																		549																										
																		CONTRACT NO. AF 04(647)-453																										
																		OSTF No. 2																										
																		CONTRACT NO. AF 04(647)-605																										
																		576-D																										
																		576-E																										
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																		579																										
																		556																										
																		ATC																										

(4) NOMENCLATURE: Preferred - Adapter Cable, Insulation Resistance.

The adapter cable is designed to provide the proper electrical connection between the insulation resistance test console (Item 184) and the gyro under test. The cable connectors are potted to prevent any damage to the cable from continuous connecting and disconnecting to the test console and to gyros to be tested.

(5) PROBLEM AREA: Integrating gyros (Kearfott P/N's T 5506-1, -2A, -2A-B, -2A-C, -2A-D, and/or C702506000, GD/A Spec 27-04250-3) are components of the missile guidance system. Prior to applying power to a rate gyro after overhaul it is necessary to check insulation resistance of the gyros circuitry to prevent any possible damage to the gyro or associated test equipment due to insulation breakdown.

Equipment is required to facilitate connections between the gyro being tested and the test set during this check.

(18) REMARKS: #This item is used at depot level overhaul but is not required at the GD/A depot.

#This cable is used in conjunction with insulation resistance test console (Item 184) and insulation resistance patch panel (Item 184.1).

§This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 184.2

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND P

DATE: 22 March 1962

LIST NUMBER: AP60-1045

5M-65		ASTRONAUTICS			A DIVISION OF GENERAL DYNAMICS CORPORATION							SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:																		
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)												
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER								
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																							#	SS						
184.3		4920-607-6868			TEST PANEL, RESISTANCE		Est 13,000																											
																		CONTRACT NO. AF 04(647)-680																
																		OSTF No. 1				*												
																		CONTRACT NO. AF 04(647)-694																
																		576-C				*												
																		567				*												
																		548				*												
																		706				*												
																		549				*												
																		CONTRACT NO. AF 04(647)-453																
																		OSTF No. 2				*												
																		CONTRACT NO. AF 04(647)-605																
																		576-D				*												
																		576-E				*												
																		550				*												
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																		577				*												
																		578				*												
																		579				*												
																		556				*												
																		ATC																

(4) NOMENCLATURE: (CS) Preferred - Test Panel, Resistance.

This resistance test panel; which measures 22 inches wide, 22 inches deep, and 40 inches high, and weighs approximately 125 pounds; is a wheatstone bridge circuit with balanced resistance arms of 1000 ohms each. The bridge is supplied by a 3-volt dc (plus or minus 1 percent) regulated power supply. The current through an unknown resistance of less than 10 ohms is limited to a maximum of 150 miliamperes, higher test values will further limit current.

Resistance tests are performed on a go-no-go basis within the prescribed tolerances of 5 percent, 10 percent, 15 percent, and 20 percent, automatically, programmed by the adapter panel for the unit under test. The over-all accuracy of resistance comparison is plus or minus 5 percent.

Continuity circuit testing is also performed on a go-no-go basis. If the resistance of the circuit under test is less than 10 megohms the test console indicates a fault.

This test console is capable of semiautomatic operation programmed by the particular adapter panel associated with the units under test. Input requirements are 115-v, 60-cps ac and 1- and 28-vdc.

(5) PROBLEM AREA: Integrating gyros (Kearfott P/N's T 5506-1, -2A, -2A-B, -2A-C, -2A-D, and/or C702506000, GD/A Spec 27-04250-3) are components of the missile guidance system. Upon return of a gyro to the depot after overhaul, a resistance and continuity test must be performed to indicate any malfunctions which may occur due to a shorted or open circuit.

Equipment is required which will facilitate these resistance and continuity tests.

(18) REMARKS: This item is used in conjunction with resistance and continuity adapter panel (Item 184.4) and resistance and continuity adapter cable (Item 184.5).

#This item is used at depot level overhaul but is not required at the GD/A depot.

\$This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 184.3

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)																
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #S	SUB TOTAL	TOTAL ON ORDER																	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																					
184.4					ADAPTER PANEL, RESISTANCE AND CONTINUITY	Est 2,500																																			
																		CONTRACT NO. AF 04(647)-680																							
																		OSTF No. 1																							
																		CONTRACT NO. AF 04(647)-694																							
																		576-C																							
																		567																							
																		548																							
																		706																							
																		549																							
																		CONTRACT NO. AF 04(647)-453																							
																		OSTF No. 2																							
																		CONTRACT NO. AF 04(647)-605																							
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																		556																							
																		ATC																							

(4) NOMENCLATURE: (PNS) Preferred - Adapter Panel, Resistance and Continuity.

#This item is used at depot level overhaul but is not required at the GD/A depot.

This item which measures 10 inches wide, 11 inches deep, and 4 inches high and weighs approximately 5 pounds, is designed to program the resistance and continuity tests on the floated rate-gyro. This adapter panel contains precision matching resistors relative to the resistance values of the gyros circuitry.

\$This item is documented for the depot in Report No. ZM-7-357.

(5) PROBLEM AREA: Integrating gyros (Kearfott P/N's T 5506-1, -2A, -2A-B, -2A-C, -2A-D, and C702506000, GD/A Spec 27-04250-3) are components of the missile guidance system. Upon return of a gyro to the depot after overhaul, a resistance and continuity test must be performed to indicate any malfunctions which may occur due to a shorted or open circuit.

Equipment is required which will facilitate the programming of these resistance and continuity tests. The equipment used must also contain precision matching resistors to determine good or bad resistance measurements.

(18) REMARKS: This item is used in conjunction with resistance test panel (Item 184.3) and resistance and continuity adapter cable (Item 184.5).

ITEM NUMBER: 184.4

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)					
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #S	SUB TOTAL	TOTAL ON ORDER					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																										
184.5		Kearfott Division General Precision Inc. Little Falls, N. J. CO56825005			ADAPTER CABLE, RESISTANCE AND CONTINUITY		Est 1,900																							
																	CONTRACT NO. AF 04(647)-680													
																	OSTF No. 1					*								
																	CONTRACT NO. AF 04(647)-694													
																	576-C					*								
																	567					*								
																	548					*								
																	706					*								
																	549					*								
																	CONTRACT NO. AF 04(647)-453													
																	OSTF No. 2					*								
																	CONTRACT NO. AF 04(647)-605													
																	576-D					*								
																	576-E					*								
																	550					*								
																	551					*								
																	577					*								
																	578					*								
																	579					*								
																	556					*								
																	ATC													

(4) NOMENCLATURE: (PNS) Preferred - Adapter Cable, Resistance and Continuity.

§This item is documented for the depot in Report No. ZM-7-357.

The adapter cable is designed to connect the floated rate-gyro to the adapter panel of the resistance test panel for resistance and continuity tests. The cable is constructed with potted connectors to prevent damage to the cable from continuous connecting and disconnecting from the test panel and the gyro to be tested.

(5) PROBLEM AREA: Integrating gyroscope (Kearfott P/N's T 5506-1, -2A, -2A-B, -2A-C, -2A-D, and C702506000, GD/A Spec 27-04250-3) are components of the missile guidance system. Upon return of a gyro to the depot after overhaul, a resistance and continuity test must be performed to indicate any malfunctions which occur due to a shorted or open circuit.

Equipment is required which will facilitate connecting the resistance test panel to the gyro under test.

(18) REMARKS: This item is used in conjunction with resistance test panel (Item 184.3) and resistance and continuity adapter panel (Item 184.4).

#This item is used at depot level overhaul but is not required at the GD/A depot.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 184.5

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SWA	GENERAL	DEPOT #S	SUB TOTAL	TOTAL ON ORDER	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
184.6		Kearfott Division General Precision Inc. Little Falls, N.J. CO53825007			TEST SET, INTEGRATING GYROSCOPE		Est 95,000 (1st unit) 40,000 (2nd & 3rd units)																		
					(4) NOMENCLATURE: (PNS) Preferred - Test Set, Integrating Gyroscope.	4) Phase corrected gyro transfer function					CONTRACT NO. AF 04(647)-680														
					This item is designed to perform all of the required troubleshooting, pre-seal, and post seal tests on the floated rate-gyro. This test set comprises the necessary power sources, switches, timers, circuitry, and instrumentation required to facilitate this task. The test set also contains a precision amplifier that receives the drift signal from the gyro and modifies this signal to the proper amplitude at the torquer of the floated rate-integrating-gyro (FRIG) test table (Item 184.7). This test set is of modular construction.	5) Gimbal freedom					OSTF No. 1														
					(5) PROBLEM AREA: Integrating gyros (Kearfott P/N's T 5506-1, -2A, -2A-B, -2A-C, -2A-D, and/or C702506000, GD/A Spec 27-04250-3) are components of the missile guidance system. Before overhaul it is necessary to put the gyro through a series of tests to pinpoint malfunctions to a specific area. After overhaul it is necessary to perform pre-seal and post seal tests. These tests include:	6) Input axis notch alignment					CONTRACT NO. AF 04(647)-694														
					1) Free drift	7) Signal generator null voltage					576-C														
					2) Mass unbalance and resistants	8) Phasing and phase shift					567														
					3) Gyro torquer linearity and torquer constant	9) Elastic restraints					548														
						10) Damping ratio					706														
						11) Temperature sensing winding resistance					549														
						12) Spin, vector check					CONTRACT NO. AF 04(647)-453														
					Equipment is required which can be used to facilitate performance of these tests.						OSTF No. 2														
					(18) REMARKS: #This item is used in conjunction with FRIG test table (Item 184.7), floated rate gyro holding fixture (Item 184.8), and gyro calibration tool set (Item 184.66).						CONTRACT NO. AF 04(647)-605														
					#This item is used at depot level overhaul but is not required at the GD/A depot.						576-D														
					§This item is documented for the depot in Report No. ZM-7-357.						576-E														
											550														
											551														
											577														
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											579														
											556														
											ATC														

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

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Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 184.6

Use Current List of Effective Pages as guide for inserting Revision Pages.

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS										A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.:																									
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																							
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	FRIG	UNIT PRICE	FRIG PART	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #8	SUB TOTAL	TOTAL ON ORDER																				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																										
184.7		Kearfott Division General Precision Inc. Little Falls, N. J. CO56425016			TABLE TEST, (FRIG)		Est 20,000 (1st Unit) 17,000 (2nd & 3rd Units)																																							
																							CONTRACT NO. AF 04(647)-680																							
																							CONTRACT NO. AF 04(647)-694																							
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USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65		ASTRONAUTICS										A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV.:																											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																								
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MFG. PART OR DWG. NUMBER	UNIT PRICE	QTY. REQ.	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF AGDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	# DEPOT	SUB TOTAL	TOTAL ON ORDER																					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																											
184.9		Kearfott Division General Precision Inc. Little Falls, N.J. CO53825006			TEST SET, STICTION		Est 25,000 (1st Unit) 13,000 (2nd Unit)																																								
																		CONTRACT NO. AF 04(647)-680																													
																		CONTRACT NO. AF 04(647)-694																													
																		576-C																													
																		567																													
																		548																													
																		706																													
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																		CONTRACT NO. AF 04(647)-453																													
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																		ATC																													

(4) NOMENCLATURE: (PNS) Preferred - Test Set, Stiction.

This item which measures approximately 22-inches wide, 42-inches high, and 22-inches deep is designed to program and monitor stiction testing. This set is of modular construction and includes all the necessary switches, circuitry, instruments, and monitoring devices to accurately determine the amount of stiction present in the gyro.

(5) PROBLEM AREA: Integrating gyro (Kearfott P/N's T 5506-1, -2A, -2A-B, -2A-C, -2A-D, and C702506000, GD/A Spec 27-04250-3) is a component of the missile guidance system. These gyros must be tested for stiction upon return to depot for overhaul during calibration procedures, and during final test.

Equipment is required to facilitate this testing.

(18) REMARKS: This item is used in conjunction with FRIG test table (Item 184.7) and floated rate gyro holding fixture (Item 184.8).

#This item is used at depot level overhaul but is not required at the GD/A depot.

§This item is documented for the depot in Report No. ZM-7-357.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 184.9  
 Use Current List of Effective Pages as guide for inserting Revision Pages.  
 Page 1 of 1

USAF WEAPON SYSTEM 107A-1 MAINTENANCE GROUND EQUIPMENT LIST, SERIES E AND F

DATE: 22 March 1962

LIST NUMBER: AP60-1045

SM-65

ASTRONAUTICS

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MFG.	UNIT PRICE	MFG. PART OR DWG. NUMBER	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT #S	SUB TOTAL	TOTAL ON ORDER		
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																								
184.10					Kearfott Division General Precision Inc. Little Falls, N. J. CO56425021		Est																					
					(4) NOMENCLATURE: (PNS) Preferred - Stand, Assembly, Final.				(5) PROBLEM AREA: Integrating gyros (Kearfott P/N's T 5506-1, -2A, -2A-B, -2A-C, -2A-D, and C702506000, GD/A Spec 27-04250-3) are components of the missile guidance system. During assembly and disassembly operations it is necessary to mount the gyro in a specific attitude to provide accessibility.																			
					(18) REMARKS: This item is used in conjunction with stator cap alignment wrench (Item 184.48) and locating diameter adapter (Item 184.11).																							
					#This item is documented for the depot in Report No. ZM-7-357.																							
					#This item is used at depot level overhaul but is not required at the GD/A depot.																							
																	CONTRACT NO. AF 04(647)-680											
																	CONTRACT NO. AF 04(647)-694											
																	CONTRACT NO. AF 04(647)-453											
																	CONTRACT NO. AF 04(647)-605											
																	ATC											

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 184.10

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE 5 January 1961			LIST NUMBER: AP60-1045								
SM-65		CONVAIR-ASTRONAUTICS													CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV		
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)	
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MFG. PART OR DWG. NUMBER	UNIT PRICE	COCGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTION LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOJ	SUB TOTAL	TOTAL ON ORDER	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
201		8405-265-6058			APRON, MACHINIST'S, BIB TYPE													CONTRACT NO AF 04(647)-370								
																		OSTF No. 1	2	2	1			4		
																		CONTRACT NO AF 04(647)-346								
																		576 C	2	2	1			24		
																		567	18	18		20		56		
																		548	18	18		20		56		
																		706				1				
																		549	18	18		1		36		
																		CONTRACT NO AF 04(647)-453								
																		OSTF No. 2	2	2	1			4		
																		CONTRACT NO AF 04(647)-605								
																		576 D	2	2	1			4		
																		576 E	2	2	1			4		
																		550	24	24		10		58		
																		551	24	24		10		58		
																		577	24	24		10		58		
																		578	24	24		10		58		
																		579	24	24		10		58		
																		556	24	24		10		58		
																		ATC								

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-30 for configuration and provisioning information.

Recommended Quantity



Approved Quantity

Asterisk indicates common usage with adjacent complex end/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 201

Page 1 of 1



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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO. (See Column 7)	REV.:
<p>(18) REMARKS: This item is located in the GSE maintenance shop.</p> <p>¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>‡ The Series D item provisioned for complex 576-A (B) will also support complexes 576-C, D, and E; and OSTF No. 1 and No. 2.</p> <p>§ This item is located in the AF Support Base Shops.</p>					
TABLE I					
<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>	<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>
1-3/8	Die, Clamping, Tube Bending, 3/8 in. O.D. Tube	1	2-1/2	Block, Slide, Pressure Die, 1/2 in. O.D. Tube	1
1-1/2	Die, Clamping, Tube Bending, 1/2 in. O.D. Tube	1	2-5/8	Block, Slide, Pressure Die, 5/8 in. O.D. Tube	1
1-5/8	Die, Clamping, Tube Bending, 5/8 in. O.D. Tube	1	2-3/4	Block, Slide, Pressure Die, 3/4 in. O.D. Tube	1
1-3/4	Die, Clamping, Tube Bending, 3/4 in. O.D. Tube	1	2-1	Block, Slide, Pressure Die, 1 in. O.D. Tube	1
1-1	Die, Clamping, Tube Bending, 1 in. O.D. Tube	1	2-1 1/4	Block, Slide, Pressure Die, 1-1/4 in. O.D. Tube	1
1-1 1/4	Die, Clamping, Tube Bending, 1-1/4 in. O.D. Tube	1	3-5/8-1 1/2	Die, Wiper, Tube Bending, 5/8 in. O.D. Tube, 1-1/2 in. Radius	1
2-3/8	Block, Slide, Pressure Die, 3/8 in. O.D. Tube	1	3-5/8-1 3/4	Die, Wiper, Tube Bending, 5/8 in. O.D. Tube, 1-3/4 in. Radius	1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO.

(See Column 7)

REV.:

<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>	<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>
3-5/8-1 7/8	Die, Wiper, Tube Bending, 5/8 in. O.D. Tube, 1-7/8 in. Radius	1	3-3/4-3	Die, Wiper, Tube Bending, 3/4 in. O.D. Tube, 3 in. Radius	1
3-5/8-2	Die, Wiper, Tube Bending, 5/8 in. O.D. Tube, 2 in. Radius	1	3-1-3	Die, Wiper, Tube Bending, 1 in. O.D. Tube, 3 in. Radius	1
3-5/8-2 1/4	Die, Wiper, Tube Bending, 5/8 in. O.D. Tube, 2-1/4 in. Radius	1	3-1-3 1/2	Die, Wiper, Tube Bending, 1 in. O.D. Tube, 3-1/2 in. Radius	1
3-5/8-2 1/2	Die, Wiper, Tube Bending, 5/8 in. O.D. Tube, 2-1/2 in. Radius	1	3-1-4	Die, Wiper, Tube Bending, 1 in. O.D. Tube, 4 in. Radius	1
3-5/8-3	Die Wiper, Tube Bending, 5/8 in. O.D. Tube, 3 in. Radius	1	3-1-5	Die, Wiper, Tube Bending, 1 in. O.D. Tube, 5 in. Radius	1
3-5/8-3 1/4	Die, Wiper, Tube Bending, 5/8 in. O.D. Tube, 3-1/4 in. Radius	1	3-1-6	Die, Wiper, Tube Bending, 1 in. O.D. Tube, 6 in. Radius	1
3-5/8-3 1/2	Die, Wiper, Tube Bending, 5/8 in. O.D. Tube, 3-1/2 in. Radius	1	3-1 1/4-4	Die, Wiper, Tube Bending, 1-1/4 in. O.D. Tube, 4 in. Radius	1
3-3/4-1 3/4	Die, Wiper, Tube Bending, 3/4 in. O.D. Tube, 1-3/4 in. Radius	1	3-1 1/4-5	Die, Wiper, Tube Bending, 1-1/4 in. O.D. Tube, 5 in. Radius	1
3-3/4-2	Die, Wiper, Tube Bending, 3/4 in. O.D. Tube, 2 in. Radius	1	3-1 1/4-6	Die, Wiper, Tube Bending, 1-1/4 in. O.D. Tube, 6 in. Radius	1
3-3/4-2 1/4	Die, Wiper, Tube Bending, 3/4 in. O.D. Tube, 2-1/4 in. Radius	1	4-3/8-1	Block, Radius, Tube Bending, 3/8 in. O.D. Tube, 1 in. Radius	1
3-3/4-2 1/2	Die, Wiper, Tube Bending, 3/4 in. O.D. Tube, 2-1/2 in. Radius	1	4-3/8-1 1/8	Block, Radius, Tube Bending 3/8 in. O.D. Tube, 1-1/8 in. Radius	1
3-3/4-2 3/4	Die, Wiper, Tube Bending, 3/4 in. O.D. Tube, 2-3/4 in. Radius	1	4-3/8-1 1/4	Block, Radius, Tube Bending 3/8 in. O.D. Tube, 1-1/4 in. Radius	1

## USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.:

<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>	<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>
4-3/8-1 1/2	Block, Radius, Tube Bending 3/8 in. O.D. Tube, 1-1/2 in. Radius	1	4-5/8-2 1/2	Block, Radius, Tube Bending, 5/8 in. O.D. Tube, 2-1/2 in. Radius	1
4-3/8-1 3/4	Block, Radius, Tube Bending 3/8 in. O.D. Tube, 1-3/4 in. Radius	1	4-5/8-3	Block, Radius, Tube Bending, 5/8 in. O.D. Tube, 3 in. Radius	1
4-3/8-2	Block, Radius, Tube Bending 3/8 in. O.D. Tube, 2 in. Radius	1	4-5/8-3 1/4	Block, Radius, Tube Bending, 5/8 in. O.D. Tube, 3-1/4 in. Radius	1
4-1/2-1 1/2	Block, Radius, Tube Bending 1/2 in. O.D. Tube, 1-1/2 in. Radius	1	4-5/8-3 1/2	Block, Radius, Tube Bending, 5/8 in. O.D. Tube, 3-1/2 in. Radius	1
4-1/2-1 3/4	Block, Radius, Tube Bending 1/2 in. O.D. Tube, 1-3/4 in. Radius	1	4-3/4-1 3/4	Block, Radius, Tube Bending, 3/4 in. O.D. Tube, 1-3/4 in. Radius	1
4-1/2-2	Block, Radius, Tube Bending 1/2 in. O.D. Tube, 2 in. Radius	1	4-3/4-2	Block, Radius, Tube Bending, 3/4 in. O.D. Tube, 2 in. Radius	1
4-1/2-2 1/2	Block, Radius, Tube Bending 1/2 in. O.D. Tube, 2-1/2 in. Radius	1	4-3/4-2 1/4	Block, Radius, Tube Bending, 3/4 in. O.D. Tube, 2-1/4 in. Radius	1
4-5/8-1 1/2	Block, Radius, Tube Bending 5/8 in. O.D. Tube, 1-1/2 in. Radius	1	4-3/4-2 1/2	Block, Radius, Tube Bending, 3/4 in. O.D. Tube, 2-1/2 in. Radius	1
4-5/8-1 3/4	Block, Radius, Tube Bending 5/8 in. O.D. Tube, 1-3/4 in. Radius	1	4-3/4-2 3/4	Block, Radius, Tube Bending, 3/4 in. O.D. Tube, 2-3/4 in. Radius	1
4-5/8-1 7/8	Block, Radius, Tube Bending 5/8 in. O.D. Tube, 1-7/8 in. Radius	1	4-3/4-3	Block, Radius, Tube Bending, 3/4 in. O.D. Tube, 3 in. Radius	1
4-5/8-2	Block, Radius, Tube Bending 5/8 in. O.D. Tube, 2 in. Radius	1	4-1-3	Block, Radius, Tube Bending, 1 in. O.D. Tube, 3 in. Radius	1
4-5/8-2 1/4	Block, Radius, Tube Bending 5/8 in. O.D. Tube, 2-1/4 in. Radius.	1	4-1-3 1/2	Block, Radius, Tube Bending, 1 in. O.D. Tube, 3-1/2 in. Radius	1

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961	LIST NUMBER: AP60-1045	
SM-65	CONVAIR-ASTRONAUTICS	CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION	SAN DIEGO, CAL.	CONTRACT NO.	(See Column 7)	REV.:
<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>	<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>	
4-1-4	Block, Radius, Tube Bending, 1 in. O.D. Tube, 4 in. Radius	1	5-1/2-028	Mandrel, Tube Bending, 1/2 in. O.D. Tube, 0.028 in. wall thickness, tool steel hardened, form type.	1	
4-1-5	Block, Radius, Tube Bending, 1 in. O.D. Tube, 5 in. Radius	1	5-1/2-035	Mandrel, Tube Bending, 1/2 in. O.D. Tube, 0.035 in. wall thickness, tool steel hardened, form type.	1	
4-1-6	Block, Radius, Tube Bending, 1 in. O.D. Tube, 6 in. Radius	1	5-1/2-049	Mandrel, Tube Bending, 1/2 in. O.D. Tube, 0.049 in. wall thickness, tool steel hardened, form type.	1	
4-1 1/4-4	Block, Radius, Tube Bending, 1-1/4 in. O.D. Tube, 4 in. Radius	1	5-5/8-028	Mandrel, Tube Bending, 5/8 in. O.D. Tube, 0.028 in. wall thk., steel hardened, one ball type.	1	
4-1 1/4-5	Block, Radius, Tube Bending, 1-1/4 in. O.D. Tube, 5 in. Radius	1	5-5/8-035	Mandrel, Tube Bending, 5/8 in. O.D. Tube, 0.035 in. wall thk., steel hardened, one ball type.	1	
4-1 1/4-6	Block, Radius, Tube Bending, 1-1/4 in. O.D. Tube, 6 in. Radius	1	5-5/8-049	Mandrel, Tube Bending, 5/8 in. O.D. Tube, 0.049 in. wall thk., steel hardened, one ball type.	1	
5-3/8-020	Mandrel, Tube Bending, 3/8 in. O.D. Tube, 0.020 in. wall thickness, tool steel hardened, combination mandrel and rod, form type.	1	5-3/4-028	Mandrel, Tube Bending, 3/4 in. O.D. Tube, 0.028 in. wall thk., steel hardened, one ball type.	1	
5-3/8-028	Mandrel, Tube Bending, 3/8 in. O.D. Tube, 0.028 in. wall thickness, tool steel hardened, combination mandrel and rod form type.	1	5-3/4-035	Mandrel, Tube Bending, 3/4 in. O.D. Tube, 0.035 in. wall thk., steel hardened, one ball type.	1	
5-3/8-035	Mandrel, Tube Bending, 3/8 in. O.D. Tube, 0.035 in. wall thickness, tool steel hardened, combination mandrel and rod form type.	1	5-3/4-042	Mandrel, Tube Bending, 3/4 in. O.D. Tube, 0.042 in. wall thk., steel hardened, one ball type.	1	
5-3/8-049	Mandrel, Tube Bending, 3/8 in. O.D. Tube, 0.049 in. wall thickness, tool steel hardened, combination mandrel and rod form type.	1				

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F				DATE: 5 January 1961		LIST NUMBER: AP60-1045	
SM-65		CONVAIR-ASTRONAUTICS		CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.	
		CONTRACT NO.		(See Column 7)		REV.:	
<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>	<u>Manufacturers Part No.</u>	<u>Nomenclature</u>	<u>Quantity</u>		
5-3/4-049	Mandrel, Tube Bending, 3/4 in. O.D. Tube, 0.049 in. wall thk., tool steel hardened, form type.	1	5-1 1/4-035	Mandrel, Tube Bending, 1-1/4 in. O.D. Tube, 0.035 in. wall thk., steel hardened, two ball type.	1		
5-3/4-058	Mandrel, Tube Bending, 3/4 in. O.D. Tube, 0.058 in. wall thk., tool steel hardened, form type.	1	5-1 1/4-049	Mandrel, Tube Bending, 1-1/4 in. O.D. Tube, 0.049 in. wall thk., steel hardened, two ball type.	1		
5-3/4-065	Mandrel, Tube Bending, 3/4 in. O.D. Tube, 0.065 in. wall thk., tool steel hardened, form type.	1					
5-1-028	Mandrel, Tube Bending, 1 in. O.D. Tube, 0.028 in. wall thk., steel hardened, two ball type.	1					
5-1-035	Mandrel, Tube Bending, 1 in. O.D. Tube, 0.035 in. wall thk., steel hardened, two ball type.	1					
5-1-049	Mandrel, Tube Bending, 1 in. O.D. Tube, 0.049 in. wall thk., steel hardened, two ball type.	1					
5-1-058	Mandrel, Tube Bending, 1 in. O.D. Tube, 0.058 in. wall thk., tool steel hardened, form type.	1					
5-1-065	Mandrel, Tube Bending, 1 in. O.D. Tube, 0.065 in. wall thk., tool steel hardened, form type.	1					
5-1 1/4-028	Mandrel, Tube Bending, 1-1/4 in. O.D. Tube, 0.028 in. wall thk., steel hardened, two ball type.	1					

011

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045																														
SM-65		CONVAIR-ASTRONAUTICS													CONTRACT NO. (See Column 7)		REV.:																														
		CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.																																										
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																								
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF ITEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF PRODUCE APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																											
205		4210-243-9664			BLANKET, FIRE																																										
																		CONTRACT NO. AF 04(647)-370																													
																		OSTF No. 1	2	1	1													3													
																		CONTRACT NO. AF 04(647)-346																													
																		576-C	2	1	6														9												
																		567	18	9	6																33										
																		548	18	9	6																					33					
																		706																													
																		549	18	9																										27	
																		CONTRACT NO. AF 04(647)-453																													
																		OSTF No. 2	2	1	1																									3	
																		CONTRACT NO. AF 04(647)-605																													
																		576-D	8	1	1																									9	
																		576-E	8	1	1																									9	
																		550	96	12	4	2																								114	
																		551	96	12	4	2																								114	
																		577	96	12	4	2																								114	
																		578	96	12	4	2																								114	
																		579	96	12	4	2																								114	
																		556	96	12	4	2																								114	
																		ATC																													

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 205

171

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F													DATE: 5 January 1961			LIST NUMBER: AP60-1045																													
SM-65		CONVAIR-ASTRONAUTICS											CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV.:																								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)																				
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																									
206		8430-269-0089			BOOT, KNEE, MAN'S													CONTRACT NO. AF 04(647)-370																											
																	OSTF No. 1	8		1												8													
																	CONTRACT NO. AF 04(647)-346																												
																	576-C	8		10														18											
																	567	72		10																	82								
																	548	72		10																		82							
																	706			1																									
																	549	72		1																				72					
																	CONTRACT NO. AF 04(647)-453																												
																	OSTF No. 2	8		1																				8					
																	CONTRACT NO. AF 04(647)-605																												
																	576-D	8		1																					8				
																	576-E	8		1																						8			
																	550	84		10																						94			
																	551	84		10																							94		
																	577	84		10																							94		
																	578	84		10																								94	
																	579	84		10																								94	
																	556	84		10																								94	
																	ATC																												

(4) NOMENCLATURE: (CS) Preferred - Boot, Knee, Man's.

This is a black rubber boot and must be requisitioned in the size required.

(5) PROBLEM AREA: Foot and leg protection for personnel.

(18) REMARKS: † The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBAD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 206



5A1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045													
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.:							
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)							
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF AUDIT APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER						
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																										
208		3419-529-0820			BUFFING AND POLISHING MACHINE, BENCH TYPE																									
																CONTRACT NO. AF 04(647)-370														
																OSTF No. 1														
																CONTRACT NO. AF 04(647)-346														
																576-C									2				2	
																567									2				2	
																548									2				2	
																706									¶					
																549									¶					
																CONTRACT NO. AF 04(647)-453														
																OSTF No. 2														
																CONTRACT NO. AF 04(647)-605														
																576-D									†					
																576-E									†					
																550										2				2
																551										2				2
																577										2				2
																578										2				2
																579										2				2
																556										2				2
																ATC														

(4) NOMENCLATURE: (CS) Preferred - Buffing and Polishing Machine, Bench Type.

This is a double-end, spindle-type unit with two 6-inch diameter wheels. The wheels are rotated at 3450 rpm by a 1/2-hp, 110-volt, single-phase ac motor.

(5) PROBLEM AREA: Routine buffing and polishing of various metal parts is required.

Equipment is required for this routine job. The equipment supplied should consist of a bench-type motor, with double-end spindle, and one 6-inch diameter wheel mounted on each spindle end. The motor must be designed to operate on 110-volt ac power.

(18) REMARKS: This item is located in the instrument and metal shop at the SMA.

¶ The Series D item provisioned for the 706th SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

† The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 208

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONTRACT NO.		REV.																									
		CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.																											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF AEOC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	US GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER														
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																			
210.1		7	125-269-8534		CABINET, STORAGE, TWO DOOR																																		
																	CONTRACT NO. AF 04(647)-370																						
																	OSTF No. 1	2	1	‡												3							
																	CONTRACT NO. AF 04(647)-346																						
																	576-C	2	1	‡												32							
																	567	18	9		29												56						
																	548	18	9		29												56						
																	706				‡																		
																	549	2	1	‡														3					
																	CONTRACT NO. AF 04(647)-453																						
																	OSTF No. 2	8	1	‡														9					
																	CONTRACT NO. AF 04(647)-605																						
																	576-D	8	1	‡														9					
																	576-E	8	1	‡														9					
																	350	96	12		15	14													137				
																	351	96	12		15	14													137				
																	377	96	12		15	14													137				
																	378	96	12		15	14													137				
																	379	96	12		15	14													137				
																	356	96	12		15	14													137				
																	ATC																						

(4) NOMENCLATURE: (CS) Preferred - Cabinet, Storage, Two Door.

This is a metal storage cabinet fitted with two lockable doors. The cabinet measures approximately 36 inches wide, 18 inches deep, 78 inches high, and is fitted with 4 adjustable shelves. Three additional adjustable shelves are provided with this cabinet when the cabinet supplied is required to satisfy part two of the problem area.

(5) PROBLEM AREA: Delicate instruments, parts, tools, special equipment, and other items must be kept safe, and dust free.

Equipment is required to provide protection to the above items in the launcher area and launch control center in the SMA. The equipment supplied must be designed with lockable, four-shelf configuration compartments.

(18) REMARKS: ¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity



Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 210.1

511

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045																								
SM-65		CONVAIR-ASTRONAUTICS													CONTRACT NO. (See Column 7)		REV.:																								
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION															SAN DIEGO, CAL.																										
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																		
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	MFG. PART OR DWG. NUMBER	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER															
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																					
211		7910-254-4956			CLEANER, VACUUM, VERTICAL TANK TYPE																																				
<p>(4) NOMENCLATURE: (CS) Preferred - Cleaner, Vacuum, Vertical Tank Type.</p> <p>This is an industrial, portable, vertical-tank type vacuum cleaner with a 1/4-hp, ac/dc motor. The unit operates on 115-volt, 60-cycle, single-phase ac or 115-volt dc. Attachments included are: 1 elbow joint w/shutoff valve fitting, 1 floor handle, 1 flexible hose, 1 carpet tool, 1 radiator and crevice tool, 1 floor tool, and 1 spray attachment.</p> <p>(5) PROBLEM AREA: A vacuum cleaner is required to remove dust from floors in shop spaces.</p> <p>(18) REMARKS: This item is located in the missile assembly area.</p> <p>¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.</p>															CONTRACT NO. AF 04(647)-370					OSTF No. 1	1	‡																1			
															CONTRACT NO. AF 04(647)-346					576-C	1	‡																			4
																				567	9	5																			14
																				548	9	5																			14
																				706																					
																				549	9	‡																			9
															CONTRACT NO. AF 04(647)-453					OSTF No. 2	1	‡																			1
															CONTRACT NO. AF 04(647)-605					576-D	1	‡																			1
																				576-E	1	‡																			1
																				350	12	5																			17
																				551	12	5																			17
																				577	12	5																			17
																				578	12	5																			17
																				579	12	5																			17
																				556	12	5																			17
					ATC																																				

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 211

771

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045																	
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.:											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)											
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER								
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																														
212		7910-132-5652			CLEANER, VACUUM, VERTICAL TANK TYPE																													
																		CONTRACT NO. AF 04(647)-370																
																		OSTF No. 1																
																		CONTRACT NO. AF 04(647)-346																
																		576-C										3					3	
																		567										3					3	
																		548										3					3	
																		706										†						
																		549										†						
																		CONTRACT NO. AF 04(647)-453																
																		OSTF No. 2																
																		CONTRACT NO. AF 04(647)-605																
																		576-D										†						
																		576-E										†						
																		550										3					3	
																		551										3					3	
																		577										3					3	
																		578										3					3	
																		579										3					3	
																		556										3					3	
																		ATC																

(4) NOMENCLATURE: (CS) Preferred - Cleaner, Vacuum, Vertical Tank Type.

This machine is complete with attachments and has a 1-1/2-hp, 110-volt, 60-cycle, single-phase ac, 3500-rpm motor.

(5) PROBLEM AREA: Cleaning of missile sections, missile components, and test equipment. This equipment requires a 3-wire cord with a 3-prong, 10-amp, Hubbell twist-lock plug.

(18) REMARKS: This item is located in the tool crib at the SMA.

† The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

‡ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

671

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045															
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.:															
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																	
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)									
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER						
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																											
213.5		4940-337-0393			CLEANING MACHINE, SMALL PARTS, PORTABLE																										
																	CONTRACT NO. AF 04(647)-370														
																	OSTF No. 1														
																	CONTRACT NO. AF 04(647)-346														
																	576-C				1										1
																	567				1										1
																	548				1										1
																	706				§										
																	549				§										
																	CONTRACT NO. AF 04(647)-453														
																	OSTF No. 2				†										
																	CONTRACT NO. AF 04(647)-605														
																	576-D				†										
																	576-E				†										
																	550				1										1
																	551				1										1
																	577				1										1
																	578				1										1
																	579				1										1
																	556				1										1
																	ATC														

(4) NOMENCLATURE: (CS) Preferred - Cleaning Machine, Small Parts, Portable.

This machine consists of a 5-inch diameter, 6-inch deep, electrically heated tank powered by 115-volt, 60-cycle, single-phase ac or dc; 1/10-hp, 60-cycle, single-phase electric motor; one small wire-mesh basket with three compartments; three glass jars; and one heater and drying unit.

(5) PROBLEM AREA: A portable, liquid-type cleaning machine suitable for cleaning and drying a variety of small parts such as bearings, valve mechanisms, etc. The equipment requires a 3-wire cord with a 3-prong, 10-amp, Hubbell twist-lock plug.

(18) REMARKS: This item is located in the instrument shop.

† The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

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Approved Quantity

Asterisk indicates common usage with adjacent complex end/or area.

Use Current List of Effective Pages as guide for Inserting Revision Pages.

ITEM NUMBER: 213.5

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV.							
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	PROB. AREA	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
215		8415-245-0171			COAT, SAFETY, HEAT PROTECTIVE																					
																		CONTRACT NO. AF 04(647)-370								
																		OSTF No. 1	4		‡			4		
																		CONTRACT NO. AF 04(647)-346								
																		576-C	4		7			11		
																		567	36		7			43		
																		548	36		7			43		
																		706			‡					
																		549	36		‡			36		
																		CONTRACT NO. AF 04(647)-453								
																		OSTF No. 2	4		‡			4		
																		CONTRACT NO. AF 04(647)-605								
																		576-D	11		‡			11		
																		576-E	11		‡			11		
																		550	132		6			138		
																		551	132		6			138		
																		577	132		6			138		
																		578	132		6			138		
																		579	132		6			138		
																		556	132		6			138		
																		ATC								

(4) NOMENCLATURE: (CS) Preferred - Coat, Safety, Heat Protective.

This coat is made of asbestos cloth and is fitted with snap fasteners for closing. The coat has an outer coating of aluminum. Type MA-1 Spec MIL-C-4632.

(5) PROBLEM AREA: Personnel protection.

(18) REMARKS: This item is located in the tool crib at the SMA and in the launcher area.

‡ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

By Air Force Direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 215

6X1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: 760-1045										
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.:										
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.												
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)				
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER		
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
216		4310-693-2652	Type MB-9		COMPRESSOR, AIR, PORTABLE																					
														CONTRACT NO. AF 04(647)-370												
														OSTF No. 1												
														CONTRACT NO. AF 04(647)-346												
														576-C				1								1
														567				1								1
														548				1								1
														706												
														549												
														CONTRACT NO. AF 04(647)-453												
														OSTF No. 2												
														CONTRACT NO. AF 04(647)-605												
														576-D												
														576-E												
														550				1								1
														551				1								1
														577				1								1
														578				1								1
														579				1								1
														556				1								1
														ATC												

(4) NOMENCLATURE: (CS) Preferred - Compressor, Air, Portable.

This compressor has a two-stage, 5-cfm displacement, 200-psi, 30-gallon receiver and a 1-hp, 110-volt, 60-cycle, single-phase ac, 1750-rpm motor.

(5) PROBLEM AREA: Compressed air must be furnished for tires peculiar to ground support equipment and for routine uses at the complex.

Portable equipment is required to furnish this compressed air. The equipment supplied must be fitted with a 3-wire cord with a 3-prong, 10-amp, Hubbell twist-lock plug.

(18) REMARKS: This item is located in the GSE maintenance shop.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 216

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS			CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION								SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)					
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																								
218		4310-547-3741			COMPRESSOR, RECIPROCATING, POWER DRIVEN																							
<p>(4) NOMENCLATURE: (CS) Preferred - Compressor, Reciprocating, Power Driven.</p> <p>This is a 200-psi, 15-cfm displacement, Type MC-2 compressor.</p> <p>(5) PROBLEM AREA: An air source for paint spray guns when a portable air supply is required.</p> <p>(18) REMARKS: This item is located in the paint shop at the SMA.</p> <p>¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.</p>																												
																CONTRACT NO. AF 04(647)-370												
																OSTF No. 1												
																CONTRACT NO. AF 04(647)-346												
																576 C				2								2
																567				2								2
																548				2								2
																706				1								
																549				1								
																CONTRACT NO. AF 04(647)-453												
																OSTF No. 2												
																CONTRACT NO. AF 04(647)-605												
																576 D				1								
																576 E				1								
																550				2								2
																551				2								2
																577				2								2
																578				2								2
																579				2								2
																556				2								2
																ATC												

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 218



152

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045													
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV									
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)						
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, SERVICE & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL DEPOT	SUB TOTAL	TOTAL ON ORDER						
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																									
219.1		3610-240-7504			CRANE, SHOVEL, TRUCK MOUNTED, REVOLVING, 20 TON		Est 34,003																						
																	CONTRACT NO. AF 04(647)-370												
																	OSTF No. 1												
																	CONTRACT NO. AF 04(647)-346												
																	576-C									2			2
																	567									2			2
																	548									2			2
																	706									1			
																	549									1			
																	CONTRACT NO. AF 04(647)-453												
																	OSTF No. 2												
																	CONTRACT NO. AF 04(647)-605												
																	576-D									1			
																	576-E									1			
																	550									1	2		3
																	551									1	2		3
																	577									1	2		3
																	578									1	2		3
																	579									1	2		3
																	556									1	2		3
																	ATC												

(4) NOMENCLATURE: (CS) Preferred - Crane, Shovel, Basic Unit Truck Mounted, Revolving, 20 Ton.

This crane is powered with two gasoline engines and has a maximum rated lifting capacity of 20 tons when used with a 30-foot boom at a 10-foot boom radius. The running gear is 6x6 with pneumatic tires. This unit is built to specification MIL-C-10466 Type ACL.

(5) PROBLEM AREA: Various items of GSE and other heavy equipment must be loaded and/or unloaded in and around the SMA area.

Equipment is required to perform these tasks and the following specific tasks:

- 1) Lift launcher components during maintenance operations on the launcher.
- 2) Emergency use in loading or unloading a missile from its missile holding trailer in case of trailer breakdown.

(18) REMARKS: The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops. To be fully operational as a crane this item must be equipped with extension 3815-634-9179 and boom crane 3815-641-6781.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
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Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 219.1

Page 1 of 1

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961		LIST NUMBER: AP60-1045																				
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.																				
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																						
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)													
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER												
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																
220		5950-237-7302			DEMAGNETIZER																															
														CONTRACT NO. AF 04(647)-370																						
														OSTF No. 1																						
														CONTRACT NO. AF 04(647)-346																						
														576-C																						
														567																						
														548																						
														706																						
														549																						
														CONTRACT NO. AF 04(647)-453																						
														OSTF No. 2																						
														CONTRACT NO. AF 04(647)-605																						
														576-D																						
														576-E																						
														550																						
														551																						
														577																						
														578																						
														579																						
														556																						
														ATC																						

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

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Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 220



4-57

CONVAIR-ASTRONAUTICS													CONTRACT NO.			LIST NUMBER																																	
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION													SAN DIEGO, CAL.			AF 04(647)-370			AF 04(647)-346			AF 04(647)-453			AF 04(647)-605																								
(1)	(2)	(3) STOCK NUMBER			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)																		
ITEM SEQUENCE	GSE SPEC. PARA. NO.	CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER	NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	QUANTITY	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																							
226			5130-293-1847		DRILL, ELECTRIC, PORTABLE, 1/4 INCH																																												
																		CONTRACT NO. AF 04(647)-370																															
																		OSTF No. 1	1		1														1														
																		CONTRACT NO. AF 04(647)-346																															
																		576-C	1		10															11													
																		567	9		10																19												
																		548	9		10																19												
																		706																															
																		549	9																													9	
																		CONTRACT NO. AF 04(647)-453																															
																		OSTF No. 2	1		1																											1	
																		CONTRACT NO. AF 04(647)-605																															
																		576-D	1		1																											1	
																		576-E	1		1																											1	
																		550	12		6	4																										22	
																		551	12		6	4																										22	
																		577	12		6	4																										22	
																		578	12		6	4																										22	
																		579	12		6	4																										22	
																		556	12		6	4																										22	
																		ATC																															

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.





USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.																	
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)										
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LAUNCHER, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	UP GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER											
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																															
231		3413-222-2146			DRILLING MACHINE, UPRIGHT, BENCH MOUNTED, 1/2 INCH																														
<p>(4) NOMENCLATURE: (CS) <u>Preferred</u> - Drilling Machine, Upright, Bench Mounted, 1/2 inch.</p> <p>This machine has a 1/2-inch size key chuck and a capacity for drilling 1/2-inch holes in mild steel. Spindle travel is 3-5/8 inches and the distance between the column and spindle center is 7-1/2 inches. This drilling machine has a vertical adjustment of 8 inches and a plain rectangular working surface, with coolant trough, which measures approximately 45 inches long and 17 inches wide. There are four spindle speeds between 600 rpm and 5000 rpm. The machine has a 1/2-hp, 220/440-volt, 60-cycle, 3-phase ac, nonreversible driving motor.</p> <p>(5) PROBLEM AREA: A fixed drilling machine with 1/2-inch capacity is required for use in routine maintenance and repair.</p> <p>(18) REMARKS: This item is located in the instrument, metal, and electronic shops.</p> <p>¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.</p> <p>§ This item is located in the AF Support Base Shops.</p>																																			
																CONTRACT NO. AF 04(647)-370																			
																OSTF No. 1																			
																CONTRACT NO. AF 04(647)-346																			
																576-C			2								2								
																567			2									2							
																548			2									2							
																706			¶																
																549			¶																
																CONTRACT NO. AF 04(647)-453																			
																OSTF No. 2																			
																CONTRACT NO. AF 04(647)-605																			
																576-D			‡																
																576-E			‡																
																550				2								2							
																551				2									2						
																577				2										2					
																578				2											2				
																579				2												2			
																556				2														2	
																ATC																			

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 231

651

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045																									
SM-65		CONVAIR-ASTRONAUTICS		CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:																								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	SP. GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																						
232		3413-528-1932			DRILLING MACHINE, UPRIGHT, FLOOR MOUNTED, 1-INCH																																					
														CONTRACT NO. AF 04(647)-370																												
														OSTF No. 1																												
														CONTRACT NO. AF 04(647)-346																												
														576-C																												
														567																												
														548																												
														706																												
														549																												
														CONTRACT NO. AF 04(647)-453																												
														OSTF No. 2																												
														CONTRACT NO. AF 04(647)-605																												
														576-D																												
														576-E																												
														550																												
														551																												
														577																												
														578																												
														579																												
														556																												
														ATC																												

(4) NOMENCLATURE: (CS) Preferred - Drilling Machine, Upright, Floor Mounted, 1-Inch.

This is a hand feed type drilling machine with 1-1/4 inch drilling capacity. The machine is a fixed-head type with a vertical adjustment of 9 inches. The spindle is of the tapered-socket type (No. 3 Morse taper) with 9-inch travel. Four spindle speeds, from 80 rpm to 2004 rpm, are available. Maximum distance between the chuck or spindle nose and the working surface is 29-1/4 inches; and from the column to the center of the spindle, 16 inches. The rectangular working surface (approximately 24 inches long and 23 inches wide) is mounted on the base of the machine. This surface can be adjusted 12 inches vertically.

This machine is driven by a 2-hp, 220/440-volt, 3-phase, 60-cycle ac, nonreversible motor.

(5) PROBLEM AREA: A heavy duty drill press is required for routine repair work.

(18) REMARKS: This item is located in the metal shop at the SMA.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

--	--

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 232





USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65

CONVAIR-ASTRONAUTICS

CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO, CAL.

CONTRACT NO. (See Column 7)

REV.

(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)						(8)											
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COST PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER									
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																															
236		3441-528-8629			FLARING AND BEADING MACHINE, ELECTRIC					AFS									CONTRACT NO. AF 04(647)-370																
																			OSTF No. 1																
																				CONTRACT NO. AF 04(647)-346															
																				576-C			1										1		
																				567			1										1		
																				548			1										1		
																				706			§												
																				549			§												
																				CONTRACT NO. AF 04(647)-453															
																				OSTF No. 2															
																				CONTRACT NO. AF 04(647)-605															
																				576-D			†												
																				576-E			†												
																				550			1											1	
																				551			1											1	
																				577			1											1	
																				578			1											1	
																				579			1											1	
																				556			1											1	
																				ATC															

(4) NOMENCLATURE: (CS) Preferred - Flaring and Beading Machine, Electric.

This is a bench mounted, mechanical type, tube flaring and beading machine. This machine will flare tubes of from 1/8-inch diameter to 2 inches in diameter and will bead tubes of from 1/4-inch diameter to 1-1/2 inches in diameter. The machine is powered by a 1/2-hp, 220/440-volt, 3-phase, 60-cycle ac motor.

(5) PROBLEM AREA: A machine is required to flare and bead various sizes of tubing for making hydraulic and pneumatic lines.

(18) REMARKS: This item is located in the hydraulic-pneumatic shop.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area

Use Current List of Effective Pages as guide for inserting Revision Pages

ITEM NUMBER: 236

163

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045																
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.:																
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																		
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)										
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COGNIZANT LAUNCH CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF AFDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL DEPOT	SUB TOTAL	TOTAL ON ORDER								
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																												
237		6230-299-3035			FLASHLIGHT, TWO CELL																											
														CONTRACT NO. AF 04(647)-370																		
														OSTF No. 1	10	4	‡									14						
														CONTRACT NO. AF 04(647)-346																		
														576-C	10	4	‡										28					
														567	90	36		14										140				
														548	90	36		14										140				
														706				‡														
														549	90	36		‡											126			
														CONTRACT NO. AF 04(647)-453																		
														OSTF No. 2	10	4	‡												14			
														CONTRACT NO. AF 04(647)-605																		
														576-D	10	4	‡												14			
														576-E	10	4	‡													14		
														550	120	48		14												182		
														551	120	48		14												182		
														577	120	48		14												182		
														578	120	48		14												182		
														579	120	48		14												182		
														556	120	48		14												182		
														ATC																		

(4) NOMENCLATURE: (CS) Preferred - Flashlight, Two Cell.

This flashlight measures 1-15/16 inches in diameter, has a clear lens, tubular neoprene case, and is powered by two BA-30 batteries (not included).

(5) PROBLEM AREA: This equipment is required for routine inspection in dark areas.

(18) REMARKS: This item is located in the launch operations building, launcher area, and in the tool crib at the SMA.

‡ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 237

1-71

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F																DATE: 5 January 1961		LIST NUMBER: AP60-1045																									
SM-65		CONVAIR-ASTRONAUTICS														CONTRACT NO. (See Column 7)		REV.																									
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION																SAN DIEGO, CAL.																											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																				
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	MFG. PART OR DWG. NUMBER	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																							
239		6230-548-0629			FLOODLIGHT, ELECTRIC																																						
																CONTRACT NO. AF 04(647)-370																											
																OSTF No. 1	2		†											2													
																CONTRACT NO. AF 04(647)-346																											
																576-C	2			4												6											
																567	18			4															22								
																548	18			4																	22						
																706				†																							
																549	18			†																					18		
																CONTRACT NO. AF 04(647)-453																											
																OSTF No. 2	2			†																				2			
																CONTRACT NO. AF 04(647)-605																											
																576-D	2			†																				2			
																576-E	2			†																						2	
																550	24			4																						28	
																551	24			4																						28	
																577	24			4																						28	
																578	24			4																					28		
																579	24			4																						28	
																556	24			4																					28		
																ATC																											

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 239



991

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS													CONTRACT NO. (See Column 7)		REV:									
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COST PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
241		3441-223-8330			FORMING MACHINE, SHEET METAL, SLIP ROLL																					
															CONTRACT NO. AF 04(647)-370											
															OSTF No. 1											
															CONTRACT NO. AF 04(647)-346											
															576-C											
															567											
															548											
															706											
															549											
															CONTRACT NO. AF 04(647)-453											
															OSTF No. 2											
															CONTRACT NO. AF 04(647)-605											
															576-D											
															576-E											
															550											
															551											
															577											
															578											
															579											
															556											
															ATC											

(4) NOMENCLATURE: (CS) Preferred - Forming Machine, Sheet Metal, Slip Roll.

Bench type, 16 to 18 gage capacity folding machine measures approximately 36 inches long and is equipped with 2-1/2 inch diameter rolls.

(5) PROBLEM AREA: Forming sheet metal.

(18) REMARKS: This item is located in the metal shop in the GSE building.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of ARMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 241

167

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045						
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.:						
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SECURITY CLASS. & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																		
242		3424-204-4915			FURNACE, HEAT TREATING, ELECTRIC					AFS												
														CONTRACT NO. AF 04(647)-370								
														OSTF No. 1								
														CONTRACT NO. AF 04(647)-346								
														576-C			1			1		
														567			1			1		
														548			1			1		
														706			¶					
														549			¶					
														CONTRACT NO. AF 04(647)-453								
														OSTF No. 2								
														CONTRACT NO. AF 04(647)-605								
														576-D			¶					
														576-E			¶					
														550			1			1		
														551			1			1		
														577			1			1		
														578			1			1		
														579			1			1		
														556			1			1		
														ATC								

(4) NOMENCLATURE: (CS) Preferred - Furnace, Heat Treating, Electric.

This is a direct-fired, floor-mounted electric furnace with an automatically controlled temperature range of 400 deg F to 2000 deg F. Inside, the furnace measures approximately 15 inches wide, 30 inches deep, and 12 inches high. The furnace door is front mounted and manually operated. The equipment has a rating of 5 kilowatts and requires 220/440-volt, 60-cycle, single-phase ac.

(5) PROBLEM AREA: Equipment is required which can be used for heat treatment of rivets and small parts.

(18) REMARKS: This item is located in the metal shop in the GSE building.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 242

Use Current List of Effective Pages as guide for inserting Revision Pages.

891

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045																		
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)			REV.																		
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																					
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)												
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID STAS	AT SMA	GENERAL DEPOT	SUB TOTAL	TOTAL ON ORDER											
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																															
243		5120-528-2733			FIRE POT, LIQUID FUEL																														
														CONTRACT NO. AF 04(647)-370																					
														OSTF No. 1																					
														CONTRACT NO. AF 04(647)-346																					
														576-C										1							1				
														567										1								1			
														548										1								1			
														706										¶											
														549										¶											
														CONTRACT NO. AF 04(647)-453																					
														OSTF No. 2																					
														CONTRACT NO. AF 04(647)-605																					
														576-D										†											
														576-E										†											
														550																		1			1
														551																	1			1	
														577																	1			1	
														578																	1			1	
														579																	1			1	
														556																	1			1	
														ATC																					

(4) NOMENCLATURE: (CS) Preferred - Fire Pot, Liquid Fuel.

This gasoline fired soldering furnace has a one-gallon fuel capacity.

(5) PROBLEM AREA: Routine soldering.

(18) REMARKS: This item is located in the metal shop.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

† The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages

ITEM NUMBER: 243

169

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045																				
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.														
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)														
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LAUNCHER, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL DEPOT	SUB TOTAL	TOTAL ON ORDER														
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																	
256		8415-269-5657			GLOVES, CLOTH, ASBESTOS																																
														CONTRACT NO. AF 04(647)-370																							
														OSTF No. 1																							
														CONTRACT NO. AF 04(647)-346																							
														576-C									8						8								
														567									8								8						
														548									8										8				
														706									¶														
														549									¶														
														CONTRACT NO. AF 04(647)-453																							
														OSTF No. 2																							
														CONTRACT NO. AF 04(647)-605																							
														576-D									‡														
														576-E									‡														
														550																		8				8	
														551																		8				8	
														577																		8				8	
														578																		8				8	
														579																		8				8	
														556																		8				8	
														ATC																							

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 256



USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)			REV							
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ASDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
258		4240-278-9646			GOGGLES, INDUSTRIAL														CONTRACT NO AF 04(647)-370							
																			OSTF No. 1	2	1				2	
																			CONTRACT NO AF 04(647)-346							
																			576 C	2	16				18	
																			567	18	16				34	
																			548	18	16				34	
																			706		1					
																			549	18	1				18	
																			CONTRACT NO AF 04(647)-453							
																			OSTF No. 2	2	1				2	
																			CONTRACT NO AF 04(647)-605							
																			576-D	2	1				2	
																			576-E	2	1				2	
																			550	24	13	2			39	
																			551	24	13	2			39	
																			577	24	13	2			39	
																			578	24	13	2			39	
																			579	24	13	2			39	
																			556	24	13	2			39	
																			ATC							

(4) NOMENCLATURE: (CS) Preferred - Goggles, Industrial.

(5) PROBLEM AREA: This item is required as a safety device to protect eyes from entry of foreign objects.

(18) REMARKS: This item is located in the tool crib and various shops at the SMA, and in the launch operations building.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The Item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 258

172

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045																
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.																
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																		
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)									
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL USE	DEPOT	SUB TOTAL	TOTAL ON ORDER						
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																												
259		3415-223-1993			GRINDING MACHINE, UTILITY, BENCH TYPE, 8 INCH																											
<p>(4) NOMENCLATURE: (CS) Preferred - Grinding Machine, Utility, Bench Type, 8 Inch.</p> <p>Two 8-inch wheels one-inch thick, motor: 1/2-hp, 110-volt, 60-cycle, single-phase ac, 3450 rpm.</p> <p>(5) PROBLEM AREA: A grinder for sharpening tools and for routine grinding.</p> <p>(18) REMARKS: This item is located in electrical, machine, hydraulic-pneumatic, and GSE shops.</p> <p>¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.</p> <p>§ This item is located in the AF Support Base Shops.</p>																																
																		CONTRACT NO. AF 04(647)-370														
																		OSTF No. 1														
																		CONTRACT NO. AF 04(647)-346														
																		576-C				3									3	
																		567				3										3
																		548				3										3
																		706				¶										
																		549				¶										
																		CONTRACT NO. AF 04(647)-453														
																		OSTF No. 2														
																		CONTRACT NO. AF 04(647)-603														
																		576-D				‡										
																		576-E				‡										
																		550				3										3
																		551				3										3
																		577				3										3
																		578				3										3
																		579				3										3
																		556				3										3
																		ATC														

By Air Force direction.  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 259

173

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.									
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)		
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID. STAS	AT SMA	GENERAL DEPOT	SUB TOTAL	TOTAL ON ORDER		
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
260		3415-528-1885			GRINDING MACHINE, UTILITY, FLOOR MOUNTED																				
														CONTRACT NO. AF 04(647)-370											
														OSTF No. 1											
														CONTRACT NO. AF 04(647)-346											
														576-C			1								1
														567			1								1
														548			1								1
														706			1								
														549			1								
														CONTRACT NO. AF 04(647)-453											
														OSTF No. 2											
														CONTRACT NO. AF 04(647)-605											
														576-D			1								
														576-E			1								
														550			1								1
														551			1								1
														577			1								1
														578			1								1
														579			1								1
														556			1								1
														ATC											

(4) NOMENCLATURE: (CS) Preferred - Grinding Machine, Utility, Floor Mounted.

This machine has a 1-inch, double-end spindle which provides the mount for two 12-inch diameter (one coarse grit and one fine grit) grinding wheels. The main driving power is supplied by a 1-hp motor which requires 11 amperes of 110-volt, 60-cycle, single-phase ac.

(5) PROBLEM AREA: A grinding machine is required for use in routine shop maintenance and repair work.

(18) REMARKS: This item is located in the metal shop and the machine shop.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 260

121

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045																	
5M-65		CONVAIR-ASTRONAUTICS													CONTRACT NO. (See Column 7)		REV.																	
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION															SAN DIEGO, CAL.																			
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)											
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF REQC. APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER										
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																														
262		5130-293-0282			GRINDER, ELECTRIC, PORTABLE, 8 INCH WHEEL						AFS																							
																	CONTRACT NO AF 04(647)-370																	
																	OSTF No. 1																	
																	CONTRACT NO AF 04(647)-346																	
																	576-C														2			
																	567															2		
																	548															2		
																	706																	
																	549																	
																	CONTRACT NO AF 04(647)-453																	
																	OSTF No. 2																	
																	CONTRACT NO AF 04(647)-605																	
																	576-D																	
																	576-E																	
																	550																2	
																	551																2	
																	577																2	
																	578																2	
																	579																2	
																	556																2	
																	ATC																	

(4) NOMENCLATURE: (CS) Preferred - Grinder, Electric, Portable, 8-Inch Wheel.

Motor: 110-volt, 60-cycle, single-phase ac, 4000 rpm to 6000 rpm.

(5) PROBLEM AREA: A portable grinder to be used for routine repair on fixed or large equipment. Grinder equipment requires a 3-wire cord with a 3-prong, 10-amp, Hubbell twist-lock plug.

(18) REMARKS: This item is located in the tool crib at the SMA and in the metal shop.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 262

125

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045																									
SM-65		CONVAIR-ASTRONAUTICS													CONTRACT NO. (See Column 7)		REV.:																									
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION															SAN DIEGO, CAL.																											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEMS AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																						
265		5130-596-4282			RIVETER, BLIND, PNEUMATIC (1/8 to 9/32 INCH CAP)																																					
															CONTRACT NO. AF 04(647)-370																											
															OSTF No. 1																											
															CONTRACT NO. AF 04(647)-346																											
															576-C																											
															567																											
															548																											
															706																											
															549																											
															CONTRACT NO. AF 04(647)-453																											
															OSTF No. 2																											
															CONTRACT NO. AF 04(647)-605																											
															576-D																											
															576-E																											
															550																											
															551																											
															577																											
															578																											
															579																											
															556																											
															ATC																											

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity



Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 265

Page 1 of 1

976

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV.									
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)		
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SWA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
265.7		5130-241-3483			HAMMER, PNEUMATIC, PORTABLE (1/4 INCH)																				
														CONTRACT NO. AF 04(647)-370											
														OSTF No. 1											
														CONTRACT NO. AF 04(647)-346											
														576-C			4								4
														567			4								4
														548			4								4
														706			¶								
														549			¶								
														CONTRACT NO. AF 04(647)-453											
														OSTF No. 2											
														CONTRACT NO. AF 04(647)-605											
														576-D			‡								
														576-E			‡								
														550			2	2							4
														551			2	2							4
														577			2	2							4
														578			2	2							4
														579			2	2							4
														556			2	2							4
														ATC											

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 265.7

177

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045																												
SM-65		CONVAIR-ASTRONAUTICS				CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION				SAN DIEGO, CAL			CONTRACT NO. (See Column 7)			REV																													
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)																							
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	FORM PRICE	COGNIZANT LAUNCHER, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL DEPOT	SUB TOTAL	TOTAL ON ORDER																				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																									
266		4240-202-7404			HELMET, WELDER'S																																								
																		CONTRACT NO. AF 04(647)-370																											
																		OSTF No. 1																											
																		CONTRACT NO. AF 04(647)-346																											
																		576-C				3												3											
																		567				3															3								
																		548				3																		3					
																		706				1																							
																		549				1																							
																		CONTRACT NO. AF 04(647)-453																											
																		OSTF No. 2																											
																		CONTRACT NO. AF 04(647)-605																											
																		576-D																											
																		576-E																											
																		550																				3						3	
																		551																				3						3	
																		577																				3						3	
																		578																				3						3	
																		579																				3						3	
																		556																				3						3	
																		ATC																											

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 266

Page 1 of 1

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045							
SM-65		CONVAIR-ASTRONAUTICS										CONTRACT NO		REV.										
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION															SAN DIEGO, CAL.		(See Column 7)							
(1)	(2)	(3) STOCK NUMBER			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)	
ITEM SEQUENCE	GSE SPEC PARA. NO.	CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER	NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL DEPOT	SUB TOTAL	TOTAL ON ORDER	
266.7			4720-142-2053		HOSE, RUBBER, (1/4 INCH ID) AIR												CONTRACT NO. AF 04(647)-370							
																	OSTF No. 1	2	2	1			4	
																	CONTRACT NO. AF 04(647)-346							
																	576 C	2	2	20			24	
																	567	18	18	20			56	
																	548	18	18	20			56	
																	706			1				
																	549	18	18	1			36	
																	CONTRACT NO. AF 04(647)-453							
																	OSTF No. 2	2	2	1			4	
																	CONTRACT NO. AF 04(647)-605							
																	576 D	2	2	1			4	
																	576 E	2	2	1			4	
																	550	24	24	10	10		68	
																	551	24	24	10	10		68	
																	577	24	24	10	10		68	
																	578	24	24	10	10		68	
																	579	24	24	10	10		68	
																	556	24	24	10	10		68	
																	ATC							

(4) NOMENCLATURE: (CS) Preferred - Hose, Rubber (1/4 Inch ID) Air.

This hose has an inside diameter of 1/4-inch and is braided round with carcass and cover. The hose is issued in 50-foot lengths and will sustain 250 psi working pressure.

(5) PROBLEM AREA: Equipment is required for use with pneumatic tools and equipment in the SMA, launcher, and blockhouse areas. This equipment must have an inside diameter of 1/4-inch.

(18) REMARKS: Hansen 1/4-inch hose stem plugs (3-L17) and 1/4-inch sockets (3-R17) are required for hose connections.

This item is located in the tool crib at the SMA, and in the launch control center and launcher areas.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER: 266.7

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Use Current List of Effective Pages as guide for inserting Revision Pages.



1281

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045																											
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)			REV.																											
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.																														
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																					
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																								
266. 8. 1		4720-540-1368			HOSE, RUBBER, (1/2 INCH ID) AIR																																							
														CONTRACT NO. AF 04(647)-370																														
														OSTF No. 1	1		1																											
														CONTRACT NO. AF 04(647)-346																														
														576-C	1		6																											
														567	9		6																											
														548	9		6																											
														706			9																											
														549	9		9																											
														CONTRACT NO. AF 04(647)-453																														
														OSTF No. 2	1		1																											
														CONTRACT NO. AF 04(647)-605																														
														576-D	1		1																											
														576-E	1		1																											
														550	12		4																											
														551	12		4																											
														577	12		4																											
														578	12		4																											
														579	12		4																											
														556	12		4																											
														ATC																														

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.







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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045																
SM-65			CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)		REV												
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)								
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COST PRICE	COGNIZANT LABORATORY, REFERENCE, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRO. DUTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER							
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																													
268.5.1		WSECL 13102 Col. B			KIT, TOOL, AFSC SPECIALIST																												
																		CONTRACT NO. AF 04(647)-370															
																		OSTF No. 1															
																		CONTRACT NO. AF 04(647)-346															
																		576-C															
																		567															
																		548															
																		706															
																		549															
																		CONTRACT NO. AF 04(647)-453															
																		OSTF No. 2															
																		CONTRACT NO. AF 04(647)-605															
																		576-D															
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																		579															
																		556															
																		ATC															

(4) Nomenclature: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

TITLE AFSC

- 1) Apprentice Electrical Power Production Repairman (Above 6K) 56731B
- 2) Electrical Power Production Repairman (Above 6K) 56751B
- 3) Electrical Power Production Technician (Above 6K) 56770B

(18) REMARKS: †One kit is supplied for each rating.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2) Recommended quantities only are listed in column 7.
  - 3) This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity



Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 268.5.1

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F																DATE: 5 January 1961		LIST NUMBER: AP60-1045																																															
SM-65		CONVAIR-ASTRONAUTICS														CONTRACT NO. (See Column 7)		REV.																																															
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION																SAN DIEGO, CAL.																																																	
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)																																											
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF AIDIC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																																									
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																																													
268.5.2		WSECL 13102 Col. C			KIT, TOOL, AFSC SPECIALIST																																																												
<p>(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.</p> <p>(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>TITLE</th> <th>AFSC</th> </tr> </thead> <tbody> <tr> <td>1) Apprentice Liquid Fuel System Specialist</td> <td>56830</td> </tr> <tr> <td>2) Liquid Fuel System Maintenance Specialist</td> <td>56850</td> </tr> <tr> <td>3) Fuel Supply Specialist (Unconventional)</td> <td>64350B</td> </tr> <tr> <td>4) Liquid Fuel System Maintenance Technician</td> <td>56870</td> </tr> </tbody> </table> <p>(18) REMARKS: †One kit is supplied for each rating.</p>																TITLE	AFSC	1) Apprentice Liquid Fuel System Specialist	56830	2) Liquid Fuel System Maintenance Specialist	56850	3) Fuel Supply Specialist (Unconventional)	64350B	4) Liquid Fuel System Maintenance Technician	56870	CONTRACT NO. AF 04(647)-370		OSTF No. 1		CONTRACT NO. AF 04(647)-346		576-C		567		548		706		549		CONTRACT NO. AF 04(647)-453		OSTF No. 2		CONTRACT NO. AF 04(647)-605		576-D		576-E		550		551		577		578		579		556		ATC	
TITLE	AFSC																																																																
1) Apprentice Liquid Fuel System Specialist	56830																																																																
2) Liquid Fuel System Maintenance Specialist	56850																																																																
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4) Liquid Fuel System Maintenance Technician	56870																																																																

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961		LIST NUMBER AP60-1045																			
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO (See Column 7)			REV														
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)												
ITEM SEQUENCE	GSE SPEC PARA NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	VOLS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	+ LOCATION	AT LAUNCHERS	AT LCCS	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER									
		CLASS CODE	SERIAL NUMBER	MFG PART OR DWG. NUMBER																															
268.5.3		WSECL 13102 Col. D			KIT, TOOL, AFSC SPECIALIST																														
																	CONTRACT NO AF 04(647)-370																		
																	OSTF No 1																		
																	CONTRACT NO AF 04(647)-346																		
																	576 C																		
																	567																		
																	548																		
																	706																		
																	549																		
																	CONTRACT NO AF 04(647)-453																		
																	OSTF No 2																		
																	CONTRACT NO AF 04(647)-605																		
																	576 D																		
																	576 E																		
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268.5.3 WSECL 13102 Col. D KIT, TOOL, AFSC SPECIALIST AFS

(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

TITLE	AFSC
1) Apprentice Ground Powered Support Equipment Repairman	47230
2) Ground Powered Support Equipment Repairman	47250
3) Ground Powered Support Equipment Technician	47270

(18) REMARKS: † One kit is supplied for each rating.

By Air Force direction.  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2) Recommended quantities only are listed in column 7.  
 3) This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

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USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045																		
5M-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV																
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)											
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF AFD/C APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER								
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																														
268.5.4		WSECL 13102 Col. E			KIT, TOOL, AFSC SPECIALIST																													
																		CONTRACT NO. AF 04(647)-370																
																		OSTF No. 1																
																		CONTRACT NO. AF 04(647)-346																
																		576 C																
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																		548																
																		706																
																		549																
																		CONTRACT NO. AF 04(647)-453																
																		OSTF No. 2																
																		CONTRACT NO. AF 04(647)-605																
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																		578																
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																		556																
																		ATC																

(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

TITLE	AFSC
1) Apprentice Control System Analyst	31431
2) Control System Analyst	31451
3) Apprentice Control System Mechanic	31230P
4) Control System Mechanic	31250P
5) Control System Technician	31270P
6) Guidance System Analyst	31450
7) Apprentice Guidance System Mechanic	31130P
8) Guidance System Mechanic	31150P
9) Guidance System Technician	31170P
10) Missile System Analyst Technician	31470P
11) Missile Test Equipment Specialist	31530
12) Missile Test Equipment Technician	31570

(18) REMARKS: †One kit is supplied for each rating.

By Air Force direction:

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- Recommended quantities only are listed in column 7.
- This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity



Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 268.5.4



1281

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961		LIST NUMBER: AP60-1045									
SM-65		CONVAIR-ASTRONAUTICS												CONTRACT NO. (See Column 7)		REV									
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION														SAN DIEGO, CAL.											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)				(8)			
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCCS	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																					
268.5.6		WSECL 13102 Col. G			KIT, TOOL, AFSC SPECIALIST																				
																	CONTRACT NO AF 04(647)-370								
																	OSTF No. 1								
																	CONTRACT NO AF 04(647)-346								
																	576-C								
																	567								
																	548								
																	706								
																	549								
																	CONTRACT NO AF 04(647)-453								
																	OSTF No. 2								
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(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

TITLE AFSC

- 1) Apprentice Photographer - Repairman 40230
- 2) Photographer - Repairman 40250

(18) REMARKS: †One kit is supplied for each rating.

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Recommended Quantity


Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 268.5.6

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961		LIST NUMBER: AP60-1045																			
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO (See Column 7)		REV.															
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)												
ITEM SEQUENCE	GSE SPEC PARA. NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER									
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																															
268. 5. 7		WSECL 13102 Col. H			KIT, TOOL, AFSC SPECIALIST																														
																		CONTRACT NO. AF 04(647)-370																	
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																		CONTRACT NO. AF 04(647)-453																	
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Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 268. 5. 7

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE 5 January 1961			LIST NUMBER: AP60-1045															
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION												SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)							
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER								
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																												
268.5.8		WSECL 13102 Col. I			KIT, TOOL, AFSC SPECIALIST																											
																CONTRACT NO. AF 04(647)-370																
																OSTF No. 1																
																CONTRACT NO. AF 04(647)-346																
																576-C																
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																548																
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																549																
																CONTRACT NO. AF 04(647)-453																
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(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

<u>TITLE</u>	<u>AFSC</u>
--------------	-------------

- |  |        |
|--|--------|
| 1) Apprentice Refrigeration Equipment Cooling Specialist | 56630B |
| 2) Refrigeration Equipment Cooling Specialist            | 56650B |
| 3) Refrigeration Equipment Cooling Supervisor            | 56670  |

18) REMARKS: †One kit is supplied for each rating.

By Air Force direction:

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Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages

ITEM NUMBER 268.5.8

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

5M-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV	
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)		
ITEM SEQUENCE	GSE SPEC. PARA NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF REVISION APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICCS	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																							
268 5.9		WSECL 13102 Col. J			KIT, TOOL, AFSC SPECIALIST																						
															CONTRACT NO AF 04(647)-370												
															OSTF No. 1												
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															579												
															556												
															ATC												

(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

TITLE AFSC

- |               |       |
|---------------|-------|
| 1) Apprentice | 55231 |
| 2) Painter    | 55251 |

(18) REMARKS: †One kit is supplied for each rating.

By Air Force direction:

- Part or specification number listed in column 3 is the number proposed for original provisioning.
- Recommended quantities only are listed in column 7.
- This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages

ITEM NUMBER 268.5.9

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE 5 January 1961		LIST NUMBER: AP60-1045													
SM-65		CONVAIR-ASTRONAUTICS													CONTRACT NO. (See Column 7)		REV.													
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION															SAN DIEGO, CAL.															
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)							
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER				
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																										
268. 6. 0		WSECL 13102 Col. K			KIT, TOOL, AFSC SPECIALIST																									
(4) NOMENCLATURE: <u>Preferred</u> - Kit, Tool, AFSC Specialist.															CONTRACT NO. AF 04(647)-370															
(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:															CONTRACT NO. AF 04(647)-346															
<table border="0"> <thead> <tr> <th>TITLE</th> <th>AFSC</th> </tr> </thead> <tbody> <tr> <td>1) Apprentice Woodworker</td> <td>55230</td> </tr> <tr> <td>2) Woodworker</td> <td>55250</td> </tr> </tbody> </table>															TITLE	AFSC	1) Apprentice Woodworker	55230	2) Woodworker	55250	OSTF No. 1									
															TITLE	AFSC														
															1) Apprentice Woodworker	55230														
															2) Woodworker	55250														
																														CONTRACT NO. AF 04(647)-453
															OSTF No. 2															
(18) REMARKS: † One kit is supplied for each rating.															CONTRACT NO. AF 04(647)-605															
															576-C															
															567															
															548															
															706															
															549															
															576-D															
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															550															
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															577															
															578															
															579															
															556															
															ATC															

By Air Force direction:  
 1. Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2. Recommended quantities only are listed in column 7.  
 3. This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 80-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 268. 6. 0



USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F																DATE: 5 January 1961		LIST NUMBER: AP60-1045						
SM-65		CONVAIR-ASTRONAUTICS														CONTRACT NO.		REV.						
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION																SAN DIEGO, CAL.		(See Column 7)						
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)	
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ABCD APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID STAS	AT SMA	GENERAL	DEFOT	SUB TOTAL	TOTAL ON ORDER
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																				
268 6.2		WSECL 13102 Col. M			KIT, TOOL, AFSC SPECIALIST																			
																CONTRACT NO. AF 04(647)-370								
																OSTF No. 1								
																CONTRACT NO. AF 04(647)-346								
																576-C								
																567								
																548								
																706								
																549								
																CONTRACT NO. AF 04(647)-453								
																OSTF No. 2								
																CONTRACT NO. AF 04(647)-605								
																576-D								
																576-E								
																550								
																551								
																577								
																578								
																579								
																556								
																ATC								

268 6.2

WSECL 13102 Col. M

KIT, TOOL, AFSC  
SPECIALIST

AFS

(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

TITLEAFSC

- |  |       |
|--|-------|
| 1) Apprentice Mechanical Accessories Equipment Repairman | 42231 |
| 2) Mechanical Accessories Equipment Repairman            | 42251 |
| 3) Mechanical Accessories Equipment Technician           | 42271 |

(18) REMARKS: †One kit is supplied for each ratings.

By Air Force direction:

- Part or specification number listed in column 3 is the number proposed for original provisioning.
- Recommended quantities only are listed in column 7.
- This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended  
QuantityApproved  
Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER, 268. 6. 2

Page 1 of 1



USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.:																													
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)																								
ITEM SEQUENCE	GSE SPEC PARA NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ADD. APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																						
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																											
268. 6. 4		WSECL 13102 Col. O			KIT, TOOL, AFSC SPECIALIST								AFS																																		
																							CONTRACT NO. AF 04(647)-370																								
																							CONTRACT NO. AF 04(647)-346																								
																							576.C																								
																							567																								
																							548																								
																							706																								
																							549																								
																							CONTRACT NO. AF 04(647)-453																								
																							CONTRACT NO. AF 04(647)-605																								
																							576.D																								
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																							577																								
																							578																								
																							579																								
																							556																								
																							ATC																								

(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

TITLE AFSC

- 1) Apprentice Metal Processing Specialist 53230
- 2) Metal Processing Specialist 53250
- 3) Metal Processing Technician 53270

(18) REMARKS: †One kit is supplied for each rating.

By Air Force direction:

- 1: Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2: Recommended quantities only are listed in column 7.
  - 3: This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity



Asterisk indicates common usage with adjacent complex and/or area.

ITEM NUMBER 268. 6. 4

Use Current List of Effective Pages as guide for inserting Revision Pages

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F														DATE: 5 January 1961			LIST NUMBER: AP60-1045												
SM-65		CONVAIR-ASTRONAUTICS												CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO (See Column 7)			REV						
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)						
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																									
268. 6. 5		WSECL 13102 Col. P			KIT, TOOL, AFSC SPECIALIST																								
																CONTRACT NO AF 04(647)-370													
																OSTF No. 1													
																CONTRACT NO AF 04(647)-346													
																576-C													
																567													
																548													
																706													
																549													
																CONTRACT NO AF 04(647)-453													
																OSTF No. 2													
																CONTRACT NO AF 04(647)-605													
																576-D													
																576-E													
																550													
																551													
																577													
																578													
																579													
																556													
																ATC													

(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

<u>TITLE</u>	<u>AFSC</u>
--------------	-------------

- |                                  |       |
|----------------------------------|-------|
| 1) Apprentice Airframe Repairman | 53430 |
| 2) Airframe Repairman            | 53450 |

(18) REMARKS: †One kit is supplied for each rating.

By Air Force direction:

- Part or specification number listed in column 3 is the number proposed for original provisioning.
- Recommended quantities only are listed in column 7.
- This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 268. 6. 5

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV			
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)						
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRO. SOLUTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER					
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																									
268.6.6		WSECL 252 Col Q			KIT, TOOL, AFSC SPECIALIST																								
																CONTRACT NO AF 04(647)-370													
																OSTF No. 1													
																CONTRACT NO AF 04(647)-346													
																576 C													
																567													
																548													
																706													
																549													
																CONTRACT NO AF 04(647)-453													
																OSTF No. 2													
																CONTRACT NO AF 04(647)-605													
																576-D													
																576-E													
																550													
																551													
																577													
																578													
																579													
																556													
																ATC													

(4) NOMENCLATURE: Preferred - Kit, Tool, AFSC Specialist.

(5) PROBLEM AREA: A kit is required which will provide a basic assortment of hand tools. This kit must be complete with carrying case. The equipment supplied will be utilized either by maintenance personnel with the Air Force Specialty Code (AFSC) ratings described herein or by personnel performing the functions of those ratings. The AFSC ratings are as follows:

TITLE AFSC

- 1) Machine Shop Technician 53170
- 2) Machinist 53150

(18) REMARKS: †One kit is supplied for each rating.

This item is the same as item 268.6.6 in Report No. ZM-7-357.

By Air Force direction:

- 1. Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2. Recommended quantities only are listed in column 7.
  - 3. This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 268.6.6

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.								
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)			
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COCGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST. PRO. DEDUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER	
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																						
269		5440-269-5075			STEPLADDER, WOOD (8 FOOT)													CONTRACT NO. AF 04(647)-370								
																		OSTF No. 1	2		‡				2	
																		CONTRACT NO. AF 04(647)-346								
																		576-C	2		‡				6	
																		567	18		‡				22	
																		548	18		‡				22	
																		706			‡					
																		549	18		‡				18	
																		CONTRACT NO. AF 04(647)-452								
																		OSTF No. 2	2		‡				2	
																		CONTRACT NO. AF 04(647)-605								
																		576-D	2		‡				2	
																		576-E	2		‡				2	
																		550	24		‡				27	
																		551	24		‡				27	
																		577	24		‡				27	
																		578	24		‡				27	
																		579	24		‡				27	
																		556	24		‡				27	
																		ATC								

(4) NOMENCLATURE: (CS) Preferred - Stepladder, Wood, (8-Foot).

(5) PROBLEM AREA: A portable ladder to be used in lieu of a maintenance platform when painting small areas.

(18) REMARKS: This item is located in the tool crib at the SMA.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 269





USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.																											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)																											
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COST	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF DATE/LOC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL OF																			
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																									
274		6230-299-5682			LIGHT, EXTENSION (100 FOOT)																																								
																		CONTRACT NO. AF 04(647)-370																											
																		OSTF No. 1	4															4											
																		CONTRACT NO. AF 04(647)-346																											
																		576-C	4																18										
																		567	36																		50								
																		548	36																			50							
																		706																											
																		549	36																									36	
																		CONTRACT NO. AF 04(647)-453																											
																		OSTF No. 2	4																									4	
																		CONTRACT NO. AF 04(647)-605																											
																		576-D	4																									4	
																		576-E	4																										4
																		550	48																										62
																		551	48																										62
																		577	48																										62
																		578	48																										62
																		579	48																										62
																		556	48																										62
																		ATC																											

(4) NOMENCLATURE: (CS) Preferred - Light, Extension (100 feet).

This extension light has 3-wire 16 AWG, type SO or SJ cable with a 3-prong, 10-amp, Hubble twistlock plug; and a type N1 explosion-proof fixture with a glass-globe guard and a plastic handle.

(5) PROBLEM AREA: Extension lighting to areas requiring explosion-proof lighting.

(18) REMARKS: This item is located in the tool crib and various shops at the SMA, and in the launcher area.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes. Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 274

700

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F															DATE: 5 January 1961		LIST NUMBER: AP60-1045											
SM-65		CONVAIR-ASTRONAUTICS													CONTRACT NO. (See Column 7)		REV.											
CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.																										
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)					
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	TOTAL PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	US GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER		
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																								
274.5		4930-554-8928			LUBRICATING UNIT, POWER OPERATED																							
		Balcrank Inc. 43682 GF			AFS													CONTRACT NO. AF 04(647)-370										
																		OSTF No. 1										
																		CONTRACT NO. AF 04(647)-346										
																		576-C					*	2			2	
																		567					*	2			2	
																		548					*	2			2	
																		706						1				
																		549						1				
																		CONTRACT NO. AF 04(647)-453										
																		OSTF No. 2										
																		CONTRACT NO. AF 04(647)-605										
																		576-D						1				
																		576-E						1				
																		550						2			2	
																		551						2			2	
																		577						2			2	
																		578						2			2	
																		579						2			2	
																		556						2			2	
																		ATC										

(4) NOMENCLATURE: (CS) Preferred - Lubricating Unit, Power Operated.

This is a power-operated unit requiring 150-psi air. The unit is equipped with 6 feet of hose; control valve; hydraulic-type, lube-fitting coupler; and a 50-pound lube tank. The unit is equipped with rubber-tired wheels.

(5) PROBLEM AREA: Certain ground support equipment including missile handling trailers, launchers, and other ground support tools and equipment, due to specific function and usage, are more conveniently serviced in the SMA and launcher areas than at the support base.

Portable, pressure-type lubrication equipment suitable for lubricating equipment having Type MS lubricating fittings (per MIL-F-3541) is required to fulfill this lubricating function.

(18) REMARKS: A 25-foot length of hose is required to reach lubricating points on the launcher.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

† The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:

- 1) Part or specification number listed in column 3 is the number proposed for original provisioning.
- 2) Recommended quantities only are listed in column 7.
- 3) This page will not be updated to show provisioning action, configuration, or part number changes.

Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity



Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 274.5

Page 1 of 1

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

CONVAIR-ASTRONAUTICS													CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION													SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV		
ITEM SEQUENCE	GSE SPEC PARA NO	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LOCATION, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF AECOM APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	(7)							SUB TOTAL	TOTAL ON ORDER									
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER													AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	ON GENERAL	DEPOT												
275		3417-223-6308			MILLING MACHINE, HORIZONTAL, PLAIN												CONTRACT NO. AF 04(647)-370																	
																OSTF No. 1																		
																CONTRACT NO. AF 04(647)-340																		
																576-C																		
																567																		
																548																		
																706																		
																549																		
																CONTRACT NO. AF 04(647)-453																		
																OSTF No. 2																		
																CONTRACT NO. AF 04(647)-605																		
																576-D																		
																576-E																		
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																578																		
																579																		
																556																		
																ATC																		

(4) NOMENCLATURE: (CS) Preferred - Milling Machine, Horizontal, Plain.

This is a plain table type power feed, milling machine designed for floor mounting. It has a 33-inch long by 8-inch wide working surface that can travel 17 inches longitudinally, 6 inches laterally, and 12-3/4 inches vertically. Maximum distance from the spindle mast to the working surface is 17 inches. The main power drive of this milling machine is a 1-1/2 hp, 220 volt, 3-phase, 60-cycle ac motor.

(5) PROBLEM AREA: A milling machine is required for routine and emergency machine work.

(6) REMARKS: The following accessories are used with this item. These accessories have not been documented since it is not known which are delivered with the milling machine, or whether these accessories are peculiar as to type and/or manufacture.

- Two molders and drawbar (bearer)
- Rotary table - 12 inch
- Dividing head and tailstock - 8 inch
- Arbor with gear-type chuck
- Miscellaneous end mills (2 and 4 lip, standard, and ball end) (40 each)
- Miscellaneous T-nuts, bolts, washers, and holddown dogs
- Milling machine vise (swivel or universal)
- Shell mills, 2 arbor (4 each)

¶ The Series D Item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction

- 1 Part or specification number listed in column 3 is the number proposed for original provisioning.
  - 2 Recommended quantities only are listed in column 7.
  - 3 This page will not be updated to show provisioning action, configuration, or part number changes.
- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages

ITEM NUMBER 275

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION		SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV.																											
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(17)					(18)																						
ITEM SEQUENCE	GSE SPEC PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	MFG. AREA	UNIT PRICE	COST PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS. & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF PROC. APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																			
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																									
276		4940-243-2735			AGITATOR, PAINT, SHAKER TYPE																																								
																		CONTRACT NO. AF 04(647)-370																											
																		OSTF No. 1																											
																		CONTRACT NO. AF 04(647)-346																											
																		576-C																											
																		567																											
																		548																											
																		706																											
																		549																											
																		CONTRACT NO. AF 04(647)-453																											
																		OSTF No. 2																											
																		CONTRACT NO. AF 04(647)-605																											
																		576-D																											
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																		ATC																											

By Air Force direction:

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Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

Approved Quantity

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Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 276

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F													DATE: 5 January 1961			LIST NUMBER: AP60-1045															
SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO (See Column 7)			REV										
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)					(8)								
ITEM SEQUENCE	GSE SPEC PARA NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT ICC'S	AT GUID. STAS	AT SMA	GENERAL DEPOT	SUB TOTAL	TOTAL ON ORDER							
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																											
277		3530-204-3316			SEWING MACHINE, INDUSTRIAL					AFS																					
																	CONTRACT NO AF 04(647)-370														
																	OSTF No. 1														
																	CONTRACT NO AF 04(647)-346														
																	576-C														
																	567														
																	548														
																	706														
																	549														
																	CONTRACT NO AF 04(647)-453														
																	OSTF No. 2														
																	CONTRACT NO AF 04(647)-605														
																	576-D														
																	576-E														
																	550														
																	551														
																	577														
																	578														
																	579														
																	556														
																	ATC														

By Air Force direction:  
 1. Part or specification number listed in column 3 is the number proposed for original provisioning.  
 2. Recommended quantities only are listed in column 7.  
 3. This page will not be updated to show provisioning action, configuration, or part number changes.  
 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity

Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER 277



USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS		CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION										SAN DIEGO, CAL.		CONTRACT NO. (See Column 7)		REV																									
(1)	(2)	(3) STOCK NUMBER			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(17)					(8)																				
ITEM SEQUENCE	GSE SPEC PARA NO	CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER	NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNITS	UNIT PRICE	COGNIZANT LABORATORY, CENTER & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																		
279			4930-399-6076			OIL GUN, PNEUMATIC																																					
																		CONTRACT NO. AF 04(647)-370																									
																		OSTF No. 1																									
																		CONTRACT NO. AF 04(647)-346																									
																		576 C			4												4										
																		567			4													4									
																		548			4														4								
																		706			4																						
																		549			4																						
																		CONTRACT NO. AF 04(647)-453																									
																		OSTF No. 2																									
																		CONTRACT NO. AF 04(647)-605																									
																		576-D			4																						
																		576-E			4																						
																		550			2	2																			4		
																		551			2	2																			4		
																		577			2	2																			4		
																		578			2	2																		4			
																		579			2	2																			4		
																		556			2	2																			4		
																		ATC																									

(4) NOMENCLATURE: (CS) Preferred - Oil Gun, Pneumatic.

This pneumatic oil gun is constructed of steel and has a 32-ounce capacity.

(5) PROBLEM AREA: To provide a means for spraying kerosene or oil for routine cleaning, lubricating, or applying a protective film.

(18) REMARKS: This item is located in the tool crib and the machine shop at the SMA.

¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.

‡ The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.

§ This item is located in the AF Support Base Shops.

By Air Force direction:  
 1) Part or specification number listed in column 3 is the number proposed for original provisioning.  
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 Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity  Approved Quantity   
 Asterisk indicates common usage with adjacent complex and/or area.

Use Current List of Effective Pages as guide for inserting Revision Pages.

ITEM NUMBER: 279

USAF WEAPON SYSTEM 107A-1 GROUND SUPPORT EQUIPMENT LIST, SERIES E AND F

DATE: 5 January 1961

LIST NUMBER: AP60-1045

SM-65		CONVAIR-ASTRONAUTICS										CONVAIR IS A DIVISION OF GENERAL DYNAMICS CORPORATION			SAN DIEGO, CAL.			CONTRACT NO. (See Column 7)			REV.																			
(1)	(2)	(3)			(4)	(5)	(6)	(9)	(10)	(11)	(12)	(13)	(14)	(18)	(16)	(17)	(15)	(7)							(8)															
ITEM SEQUENCE	GSE SPEC. PARA. NO.	STOCK NUMBER			NOMENCLATURE	DESCRIPTION OF PROBLEM AREA	UNIT PRICE	COGNIZANT LABORATORY, CENTER, & SERVICE	TYPE CLASSIFICATION	PROPOSED SUPPLY SOURCE	SOURCE CODE	SECURITY CLASS & REMARKS	EST. PRODUCTIONS LEAD TIME	DATE OF ARDC APPROVAL	EST. DATE FIRST ITEM AVAILABLE	LOCATION	AT LAUNCHERS	AT LCC'S	AT GUID. STAS	AT SMA	GENERAL	DEPOT	SUB TOTAL	TOTAL ON ORDER																
		CLASS CODE	SERIAL NUMBER	MFG. PART OR DWG. NUMBER																																				
279.1		4930-247-3669			GREASE GUN, HAND (3 OZ. CAP.), FLUSH TYPE NOZZLE																																			
<p>(4) NOMENCLATURE: (CS) Preferred - Grease Gun, Hand (3 oz cap.), Flush Type Nozzle.</p> <p>This is a straight design, push operated, flush type grease gun. The grease gun has a capacity of 3 oz of grease and 10,000 psi maximum pressure. The gun is atmospherically primed.</p> <p>(5) PROBLEM AREA: The sustainer engine gimbaling block is fitted with standard flush type NAS516 lubrication fittings.</p> <p>Equipment which will facilitate lubrication of these gimbaling blocks in the engine maintenance area, missile assembly area, and at the launcher is required.</p> <p>(18) REMARKS: ¶ The Series D item provisioned for the 706 SSS in Report No. ZM-7-357 will also support the Series E requirement at 706 SSS and 549 SMS.</p> <p>† The item provisioned for complex 576-C will also support complexes 576-D and E, and OSTF No. 1 and No. 2.</p>																																								
																CONTRACT NO. AF 04(647)-370																								
																OSTF No. 1	†	†																						
																CONTRACT NO. AF 04(647)-346																								
																576-C	*		4																					
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																CONTRACT NO. AF 04(647)-453																								
																OSTF No. 2	†	†																						
																CONTRACT NO. AF 04(647)-605																								
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By Air Force direction

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- Refer to current issue of AFBMD Exhibit 60-36 for configuration and provisioning information.

Recommended Quantity

	Approved Quantity
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ITEM NUMBER 279.1