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BOEING AIRPLANE COMPANY
WICHITA 1, KANSAS

DOCUMENT NO. WD-10387 DATE 13 October 1954

MODEL RB-47E CONTRACT NO. AF33(600)-5148

TITLE ACTUAL GROUP WEIGHT & BALANCE REPORT FOR AIRPLANE PHOTO-RECONNAISSANCE (AF52-790) 158th.

ISSUE NO. 4 TO SMC DATE

SHORT TITLE
(For Classified Data)

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SUPERVISED BY Harold D. Boles

APPROVED BY B. F. Leahy

APPROVED BY

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REFERENCES

1. D-11370-1 — Detail Specification For Airplane Photo-Reconnaissance and Block 8 Supplement.

2. AN-W-11b — Air Force Specification - Weight and Balance Control Data.

INTRODUCTION

This weight report corresponds to an "Actual Weight Report - Intermediate Airplane" in accordance with paragraph E-3g of Specification AN-W-11b. The interval of Weight and Balance Reports is in concurrence with Air Materiel Command Agreement covered in Messageform as is proposed in Wibac Letter 29213453/RP:ADK dated 13 October 1952.

2(d) Weight reports shall be submitted for the first airplane of each block which is representative of the production series.

Weight and balance data presented herein reflect the results of the actual weighing of Airplane AF52-790 on 15 September 1954. (Production Block No. 8, AF52-790 thru AF52-825)

FORM E-582

CONTRACT NO.

CALC	L. Hile	10-5-54			
CHECK	L. Denny	10-5-54			
APR.					
APR					
			REVISED	DATE	

SUMMARY OF WEIGHT AND BALANCE CONDITIONS

BOEING AIRPLANE COMPANY

WICHITA DIVISION WICHITA 1, KANSAS

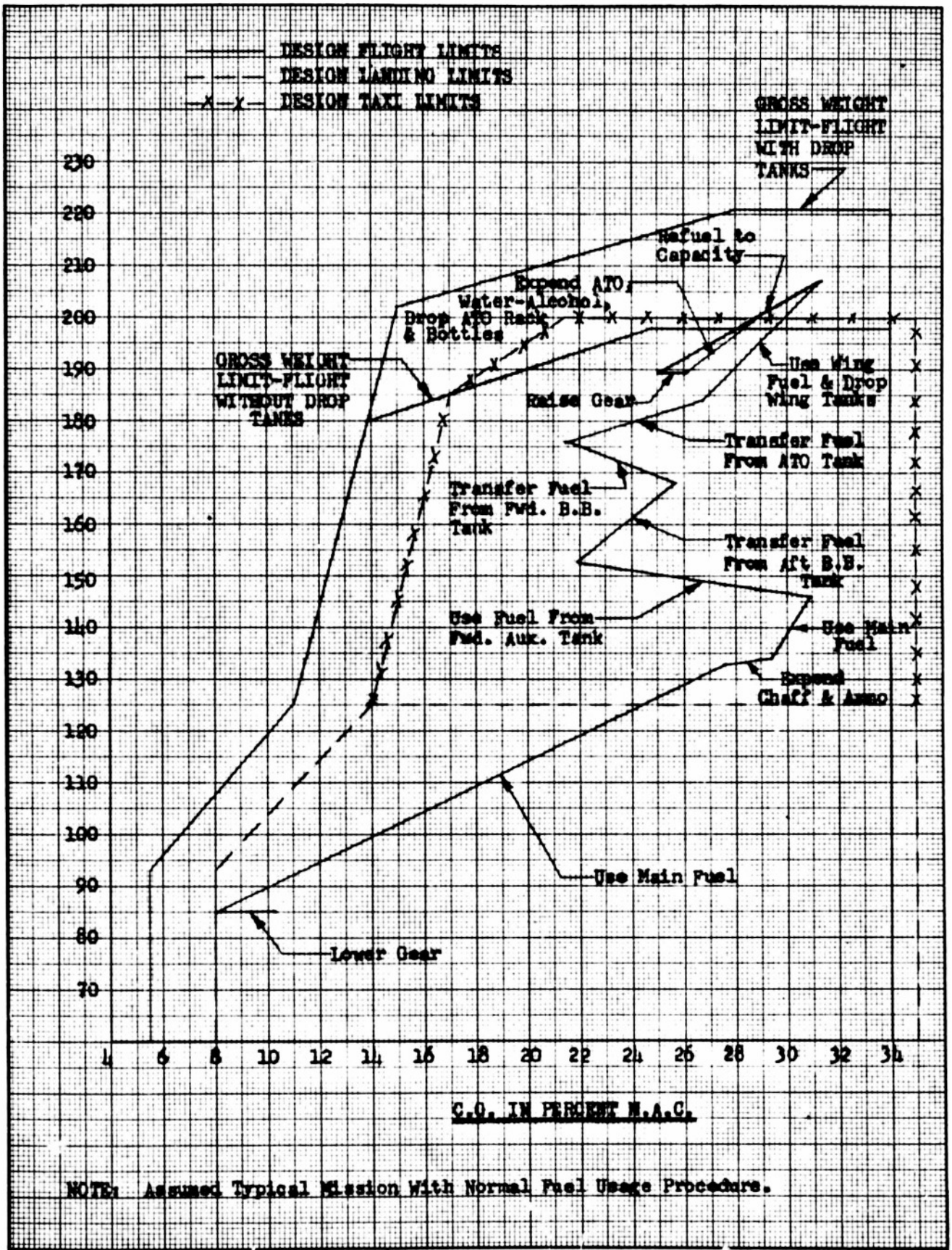
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SUMMARY OF

HORIZONTAL WEIGHT AND BALANCE CONDITIONS

LOAD CONDITIONS	LDG. GEAR POSITION	C.G.% MAC	WEIGHT	ARM	MOMENT	PAGE
A. Weight Empty	Up	10.0	82,194	600.4	49,351,378	23 of 103
Weight Empty	Down	12.4	82,194	604.2	49,663,378	23 of 103
B. Normal Design Gross Weight	Up	23.3	125,000	621.2	77,650,520	24 of 103
Normal Design Gross Weight	Down	25.0	125,000	623.7	77,962,520	24 of 103
C. Max. Flight Gross Weight (Without External Tanks)						
Day Mission	Up	26.6	183,742	626.3	115,082,014	25 of 103
Night Mission	Up	26.2	185,409	625.7	116,011,617	26 of 103
D. Max. Taxi Gross Weight (Without External Tanks)						
Day Mission	Down	30.4	194,171	632.2	122,750,738	25 of 103
Night Mission	Down	30.0	195,838	631.5	123,680,341	26 of 103
E. Max. Taxi Gross Weight (With Ext. Tanks-With ATO)						
Day Mission	Down	28.8	200,000	629.7	125,939,186	27 of 103
Night Mission	Down	28.1	200,000	628.6	125,726,060	28 of 103
F. Max. Taxi Gross Weight (With Ext. Tanks-No ATO)						
Day Mission	Down	25.0	200,000	623.8	124,758,991	29 of 103
Night Mission	Down	24.3	200,000	622.7	124,546,807	30 of 103
G. Max. Flight Gross Weight (With Ext. Tanks-Refueled)						
Day Mission	Up	31.3	207,211	633.6	131,291,194	31 of 103
Night Mission	Up	30.9	208,878	633.0	132,220,797	32 of 103

NOTE: For Dimensional Data See Page 15 of 103.



NOTE: Assumed Typical Mission With Normal Fuel Usage Procedure.

CALC	L. Hile 10-5-54	REVISED	DATE	CENTER OF GRAVITY GRAPH AF52-790	RB-47E
CHECK	E. Niquette 10-5-54				
APR					
APR				BOEING AIRPLANE COMPANY WICHITA 1, KANSAS	WD-10387
					PAGE 6 OF 103
CONTRACT NO.					

AN-9103-D
SUPERSEDING
AN-9103-C

NAME L. Hile
DATE 9-29-54

MODEL RB-47E
REPORT WD-10387

GROUP WEIGHT STATEMENT

~~ESTIMATED~~ - ~~CALCULATED~~ - ACTUAL
(Cross out those not applicable)

CONTRACT NO. AF33(600)-5148
AIRPLANE, GOVERNMENT NO. AF52-790
AIRPLANE, CONTRACTOR NO. 4501011
MANUFACTURED BY BOEING AIRPLANE CO.

		MAIN	AUXILIARY
ENGINE	MANUFACTURED BY	GENERAL ELECTRIC CO.	
	MODEL	TB-J47-GE-25A	
	NO.	J-47-GE-25A	
PROPELLER	MANUFACTURED BY		
	DESIGN NO.		
	NO.		

AN-9193-D
NAME L. Ellis
DATE 9-29-54

GROUP WEIGHT STATEMENT
WEIGHT EMPTY

MODEL RB-47E
REPORT MD-10387

1	WING GROUP					16,407
2	CENTER SECTION - BASIC STRUCTURE					
3	INTERMEDIATE PANEL - BASIC STRUCTURE					
4	OUTER PANEL - BASIC STRUCTURE (INCL. TIPS LBS.)					
5						
6	SECONDARY STRUCTURE (INCL. WINGFOLD MECHANISM LBS.)					
7	AILERONS (INCL. BALANCE WEIGHT LBS.)					
8	FLAPS - TRAILING EDGE					
9	- LEADING EDGE					
10	SLATS					
11	SPOILERS					
12	SPEED BRAKES					
13						
14						
15	TAIL GROUP					2,484
16	STABILIZER - BASIC STRUCTURE					
17	FINS - BASIC STRUCTURE (INCL. DORSAL LBS.)					
18	SECONDARY STRUCTURE (STAB. & FINS)					
19	ELEVATOR (INCL. BALANCE WEIGHT LBS.)					
20	RUDDERS (INCL. BALANCE WEIGHT LBS.)					
21	HORIZONTAL TAIL				1,549	
22	VERTICAL TAIL				935	
23	BODY GROUP					13,318
24	FUSELAGE OR HULL - BASIC STRUCTURE					
25	BOOMS - BASIC STRUCTURE					
26	SECONDARY STRUCTURE - FUSELAGE OR HULL					
27	- BOOMS					
28	- SPEEDBRAKES					
29	- DOORS, PANELS & MISC.					
30						
31	ALIGHTING GEAR GROUP - LAND (TYPE:)					7,926
32	LOCATION	WHEELS, BRAKES TIRES, TUBES, AIR	STRUCTURE	CONTROLS		
33						
34						
35	Main				6,848	
36						
37	Outrigger				1,078	
38						
39						
40	ALIGHTING GEAR GROUP - WATER					
41	LOCATION	FLOATS	STRUTS	CONTROLS	XXXXXX	
42						
43						
44						
45						
46	SURFACE CONTROLS GROUP					1,948
47	COCKPIT CONTROLS					
48	AUTOMATIC PILOT					
49	SYSTEM CONTROLS (INCL. POWER & FEEL CONTROLS LBS.)					
50						
51	ENGINE SECTION OR NACELLE GROUP					4,247
52	INBOARD				3,358	
53	CENTER					
54	OUTBOARD				889	
55	DOORS, PANELS & MISC.					
56						
57	TOTAL (TO BE BROUGHT FORWARD)					46,330

AN-9303-D
NAME In Hile
DATE 9-29-54

GROUP WEIGHT STATEMENT
WEIGHT EMPTY

PAGE 9 of 103
MODEL RB-47B
REPORT WD-10387

		AUXILIARY	MAIN	
1	PROPULSION GROUP			22,462
2				
3	ENGINE INSTALLATION		15,877	
4	AFTERBURNERS (IF FURN. SEPARATELY)			
5	ACCESSORY GEAR BOXES & DRIVES		121	
6	SUPERCHARGERS (FOR TURBO TYPES)			
7	AIR INDUCTION SYSTEM			
8	EXHAUST SYSTEM		299	
9	COOLING SYSTEM			
10	LUBRICATING SYSTEM		303	
11	TANKS			
12	COOLING INSTALLATION			
13	DUCTS, PLUMBING, ETC.			
14	FUEL SYSTEM		5,129	
15	TANKS - PROTECTED			
16	- UNPROTECTED			
17	PLUMBING, ETC.			
18	WATER INJECTION SYSTEM		633	
19	ENGINE CONTROLS		100	
20	STARTING SYSTEM			
21	PROPELLER INSTALLATION			
22				
23				
24	AUXILIARY POWER PLANT GROUP			
25	INSTRUMENTS & NAVIGATIONAL EQUIPMENT GROUP			507
26	HYDRAULIC & PNEUMATIC GROUP			369
27				
28				
29	ELECTRICAL GROUP			3,527
30				
31				
32	ELECTRONICS GROUP			2,950
33	EQUIPMENT			
34	INSTALLATION			
35				
36	ARMAMENT GROUP (INCL. GUNFIRE PROTECTION LBS.)			1,406
37	FURNISHINGS & EQUIPMENT GROUP			1,054
38	ACCOMMODATIONS FOR PERSONNEL		585	
39	MISCELLANEOUS EQUIPMENT		321	
40	FURNISHINGS		17	
41	EMERGENCY EQUIPMENT		131	
42				
43	AIR CONDITIONING & ANTI-ICING EQUIPMENT GROUP			1,532
44	AIR CONDITIONING		457	
45	ANTI-ICING		1,075	
46				
47	PHOTOGRAPHIC GROUP			1,526
48	AUXILIARY GEAR GROUP			374
49	HANDLING GEAR			
50	ARRESTING GEAR			
51	CATAPULTING GEAR			
52	ATO GEAR			
53				
54				
55	MANUFACTURING VARIATION			+ 157
56	TOTAL FROM PG. 2			46,330
57	WEIGHT EMPTY			82,194

AN-9103-D

GROUP WEIGHT STATEMENT (Cont'd)

USEFUL LOAD

	NAME	DATE
PREPARED	L. Hile	9-27-54
CHECKED	L. Denny	10-4-54

LOAD CONDITION DESIGN GROSS
See Page 5 of 103

		DESIGN GROSS WEIGHT
1.		
2.	Crew (3)	690
3.	Survival Kits (3)	54
4.		
5.	Fuel - Engine (5,979 Gals. at 6.5#/Gal.)	38,863
6.	Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)	534
7.		
8.		
9.	Oil - Engine (20 Gals. at 7.5#/Gal.)	150
10.		
11.		
12.	Purging - Dry Ice	83
13.		
14.		
15.	Armament	
16.	20 MM Cannon (2)	199
17.	Gun Heaters & Chargers (2)	29
18.	20 MM Ammunition (700 Rounds)	434
19.		
20.		
21.	Equipment	
22.	Navigation	24
23.	Oxygen & Bottles	158
24.	Photographic (Day Mission)	712
25.	Spare Amplifiers	31
26.		
27.		
28.	Chaff (768 Packages)	845
29.		
30.		
31.		
32.		
33.		
34.		
35.		
36.		
37.		
38.		
39.		
40.		
41.		
42.		
43.		
44.		
45.		
46.		
47.		
48.	TOTAL USEFUL LOAD	42,806
49.	WEIGHT EMPTY	82,194
50.	GROSS WEIGHT	125,000

NOTE: Actual or Calculated Weights Have Been Used Where Available.

AN-9103-D

GROUP WEIGHT STATEMENT (Cont'd)
USEFUL LOAD

	NAME	DATE
PREPARED	L. Hile	9-27-54
CHECKED	L. Denny	10-4-54

LOAD CONDITION ALTERNATE
DAY MISSION (See Page 5 of 103)

	MAX. FLIGHT GR.WT.LESS EXT. TANKS	MAX. TAXI GR.WT.LESS EXT. TANKS	MAX. TAXI GR.WT.WITH EXT. TANKS WITH ATO	
Crew (3)	690	690	690	
Survival Kits (3)	54	54	54	
Fuel - Engine (15,009 Gals. at 6.5#/Gal.)	97,560	97,560	79,920	(12,295 Gals.
Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)	534	534	534	
Fuel - Wing Droppable (3,346 Gals.)			21,749	
Fuel Tanks - Wing Drop			1,560	
Oil - Engine (26 Gals. at 7.5#/Gal.)	195	195	278	(37 Gals.)
Purging - Dry Ice	83	83	160	
ATO Racks		509	509	
ATO Bottles (33)		2,244	2,244	
ATO Charge (Bottle Type)		2,376	2,376	
Engine Augmentation (Water & Alcohol)		5,300	5,300	
20 MM Cannon (2)	199	199	199	
Gun Chargers & Heaters (2)	29	29	29	
20 MM Ammunition (700 Rounds)	434	434	434	
Equipment				
Navigation	24	24	24	
Oxygen & Bottles	158	158	158	
Photographic (Day Mission)	712	712	712	
Spare Amplifiers	31	31	31	
Chaff (768 Packages)	845	845	845	
TOTAL USEFUL LOAD	101,548	111,977	117,806	
WEIGHT EMPTY	82,194	82,194	82,194	
GROSS WEIGHT	183,742	194,171	200,000	

NOTE: Actual or Calculated Weights Have Been Used Where Available.

AN-9103-D

	NAME	DATE
PREPARED	L. Hile	9-28-54
CHECKED	L. Denny	10-4-54

GROUP WEIGHT STATEMENT (Cont'd)

USEFUL LOAD

Model RB-47E
Report WD-10387

LOAD CONDITION ALTERNATE
NIGHT MISSION (See Page 5 of 103)

	MAX. FLIGHT GR.WT.LESS EXT. TANKS	MAX. TAXI GR.WT.LESS EXT. TANKS	MAX. TAXI GR.WT.WITH EXT. TANKS WITH ATO	
Crew (3)	690	690	690	
Survival Kits (3)	54	54	54	
Fuel - Engine (15,009 Gals. at 6.5#/Gal.)	97,560	97,560	78,253	(12,039 Gals.)
Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)	534	534	534	
Fuel - Wing Droppable (3,346 Gals.)			21,749	
Fuel Tanks - Wing Droppable			1,560	
Oil - Engine (26 Gals. at 7.5#/Gal.)	195	195	278	(37 Gals.)
Purging - Dry Ice	83	83	160	
ATO Racks		509	509	
ATO Bottles (33)		2,244	2,244	
ATO Propellant (Bottle Type)		2,376	2,376	
Engine Augmentation (Water & Alcohol)		5,300	5,300	
20 MM Cannon (2)	199	199	199	
Gun Heaters & Chargers (2)	29	29	29	
20 MM Ammunition (700 Rounds)	434	434	434	
Equipment				
Navigation	24	24	24	
Oxygen & Bottles	158	158	158	
Photographic (Night Mission)	640	640	640	
Spare Amplifiers	31	31	31	
Bomb - Photo (10)	1,500	1,500	1,500	
Shackles & Releases (Photo Bomb) (10)	59	59	59	
Photoflash Cartridges (200)	180	180	180	
Chaff (768 Packages)	845	845	845	
TOTAL USEFUL LOAD	103,215	113,644	117,806	
WEIGHT EMPTY	82,194	82,194	82,194	
GROSS WEIGHT	185,409	195,838	200,000	

NOTE: Actual or Calculated Weights Have Been Used Where Available.

AN-9103-D

GROUP WEIGHT STATEMENT (Cont'd)

USEFUL LOAD

	NAME	DATE
PREPARED	L. Hile	9-29-54
CHECKED	L. Denny	10-4-54

Model RB-47E
Report WD-10387

LOAD CONDITION ALTERNATE
DAY MISSION (See Page 5 of 103)

		MAX. TAXI GR.WT.WITH EXT. TANKS LESS ATO	MAX.FLIGHT GR.WT.WITH EXT. TANKS REFUELED	
Crew	(3)	690	690	
Survival Kits	(3)	54	54	
Fuel - Engine (13,084 Gals. at 6.5#/Gal.)		85,049	97,560	(15,009 Gals.)
Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)		534	534	
Fuel - Wing Droopable (3,346 Gals. at 6.5#/Gal.)		21,749	21,749	
Fuel Tanks - Wing Droppable		1,560	1,560	
Oil - Engine (37 Gals. at 7.5#/Gal.)		278	278	
Purging - Dry Ice		160	160	
20 MM Cannon	(2)	199	199	
Gun Chargers & Heaters	(2)	29	29	
20 MM Ammunition (700 Rounds)		434	434	
Equipment				
Navigation		24	24	
Oxygen & Bottles		158	158	
Photographic (Day Mission)		712	712	
Spare Amplifiers		31	31	
Chaff	(768 Packages)	845	845	
Engine Augmentation (Water & Alcohol)		5,300		
TOTAL USEFUL LOAD		117,806	125,017	
WEIGHT EMPTY		82,194	82,194	
GROSS WEIGHT		200,000	207,211	

NOTE: Actual or Calculated Weights Have Been Used Where Available.

AN-9103-D

	NAME	DATE
PREPARED	L. Hile	9-29-54
CHECKED	L. Denny	10-4-54

GROUP WEIGHT STATEMENT (Cont'd)
USEFUL LOAD

LOAD CONDITION ALTERNATE
NIGHT MISSION (See Page 5 of 103)

		MAX. TAXI GR.WT.WITH EXT. TANKS LESS ATO	MAX.FLIGHT GR.WT.WITH EXT. TANKS REFUELED	
Crew	(3)	690	690	
Survival Kits	(3)	54	54	
Fuel - Engine (12,828 Gals. at 6.5#/Gal.)		83,382	97,560	(15,009 Gals.)
Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)		534	534	
Fuel - Wing Droppable (3,346 Gals.)		21,749	21,749	
Fuel Tanks - Wing Droppable		1,560	1,560	
Oil - Engine (37 Gals. at 7.5#/Gal.)		278	278	
Purging - Dry Ice		160	160	
20 MM Cannon	(2)	199	199	
Gun Chargers & Heaters	(2)	29	29	
20 MM Ammunition	(700 Rounds)	434	434	
Equipment				
Navigation		24	24	
Oxygen & Bottles		158	158	
Photographic (Night Mission)		640	640	
Spare Amplifiers		31	31	
Bomb - Photo	(10)	1,500	1,500	
Release & Shackles - Photo Bomb	(10)	59	59	
Photoflash Cartridges	(200)	180	180	
Chaff (768 Packages)		845	845	
Engine Augmentation (Water & Alcohol)		5,300		
TOTAL USEFUL LOAD		117,806	126,684	
WEIGHT EMPTY		82,194	82,194	
GROSS WEIGHT		200,000	208,878	

NOTE: Acthal or Calculated Weights Have Been Used Where Available.

AL-9103-D
NAME L. Hile
DATE 9-29-54

GROUP WEIGHT STATEMENT
DIMENSIONAL & STRUCTURAL DATA

MODEL RB-47E
REPORT WD-10387

1	LENGTH - OVERALL (FT.)	109' 10"			HEIGHT - OVERALL - STATIC (FT.)	28.0'			
2		Main Floats	Aux. Floats	Booms	Fuse or Hull	Inboard	Nacelles Center	Outboard	
3	LENGTH - MAX. (FT.)				108.2	18.8		17.2	
4	DEPTH - MAX. (FT.)				10.6	4.7		4.2	
5	WIDTH - MAX. (FT.)				9.6	6.8		3.4	
6	WETTED AREA (SQ. FT.)				2629.0	267.6	Per Side	184.6	
*7	FLOAT OR HULL DISPL. - MAX (LBS.)								
8	FUSELAGE VOLUME (CU. FT.)			PRESSURIZED	671.0	TOTAL	5,580.0		
9						Wing	H. Tail	V. Tail	
10	GROSS AREA (SQ. FT.)					1428.0	268.0	230.0	
11	WEIGHT/GROSS AREA (LBS./SQ. FT.)					11.5	5.8	4.7	
12	SPAN (FT.)					116.0	33.0	18.7	
13	FOLDED SPAN (FT.)								
14									
15	SWEEPBACK - AT 25% CHORD LINE (DEGREES)					35°	33°	35°	
16	- AT % CHORD LINE (DEGREES)								
**17	THEORETICAL ROOT CHORD - LENGTH (INCHES)					208.0	137.0	216.0	
18	- MAX. THICKNESS (INCHES)					25.0	13.7	21.6	
***19	CHORD AT PLANFORM BREAK - LENGTH (INCHES)					200.0	137.0	216.0	
20	- MAX. THICKNESS (INCHES)					24.0	13.7	21.6	
***21	THEORETICAL TIP CHORD - LENGTH (INCHES)					87.4	58.0	74.0	
22	- MAX. THICKNESS (INCHES)					10.5	5.8	7.4	
23	DORSAL AREA, INCLUDED IN (FUSE.) (HULL) (V. TAIL) AREA (SQ. FT.) 4.5								
24	TAIL LENGTH - 25% MAC WING TO 25% MAC H. TAIL (FT.) 46.5								
25	AREAS (SQ. FT.) Flaps	Flaps Inb'd. 139.0		Flaps Outb'd. 110.6					
26	Lateral Controls	Slots		Spoilers		Ailerons 146.0 TOTAL			
27	Speed Brakes	Wing		Fuse. or Hull		Brake Chute 32' Dia.			
28						Approach Chute 16' Dia.			
29									
30	ALIGHTING GEAR (LOCATION)					Fwd. Main	Aft. Main	Outrigger	
31	LENGTH - OLEO EXTENDED - ℄ AXLE TO ℄ TRUNNION (INCHES)					72.5	61.2	85.0	
32	OLEO TRAVEL - FULL EXTENDED TO FULL COLLAPSED (INCHES)					12.0	12.0	24.0	
33	FLOAT OR SKI STRUT LENGTH (INCHES)								
34	ARRESTING HOOK LENGTH - ℄ HOOK TRUNNION TO ℄ HOOK POINT (INCHES)								
35	HYDRAULIC SYSTEM CAPACITY (GALS.) 30.4								
36	FUEL & LUBE SYSTEMS	Location	No. Tanks	****Gals. Self Sealing		No. Tanks	****Gals. Non Self Sealing		
37	Fuel - Internal	Wing							
38		Fuse. or Hull	3	9,204					
39	- External Droppable	Wing				2	3,346		
40	- Bomb Bay Fixed	Fuselage				2	3,540		
41	-auxiliary	Fuselage				2	2,265		
42	Oil	Wing				6	56.4		
43									
44									
45	STRUCTURAL DATA - CONDITION				Fuel in Wings (Lbs.)	Stress Gross Weight		Ult. L.F.	
46	FLIGHT					125,000		4.5	
47	LANDING					125,000		4.0	
48									
49	MAX. GROSS WEIGHT WITH ZERO WING FUEL					198,000		3.0	
50	CATAPULTING								
51	MIN. FLYING WEIGHT					85,399		4.5	
52	LIMIT AIRPLANE LANDING SINKING SPEED (FT./SEC.) 10 Ft./Sec.								
53	WING LIFT ASSUMED FOR LANDING DESIGN CONDITION (%W) 100% at 1 Factor								
54	STALL SPEED - LANDING CONFIGURATION - POWER OFF (KNOTS) 118 Knots								
55	PRESSURIZED CABIN - ULT. DESIGN PRESSURE DIFFERENTIAL - FLIGHT (P.S.I.)					Crew Comp't. 16 P.S.I.			
56						Canopy 20 P.S.I.			
57	AIRFRAME WEIGHT (XXXXXXXXXXXXXXXXXXXX (LBS.)					55,958			

*Lbs. of sea water @ 64 lbs./cu. ft.
**Parallel to ℄ at ℄ airplane.
***Parallel to ℄ airplane.
****Total usable capacity.

1148 Gallons of this capacity is non self-sealing.

As defined in A.M.P.R. Forms attached to Dept. of the Air Force Letter to A.M.C. AFMIR400.192 Dated 8-3-53.

40 U.S. GOVERNMENT PRINTING OFFICE 1951 O - 210-12

Prepared By L. Hile
Date 9-29-54

Report No. WD-10387
Page 16 of 103
Model RB-47E

AIRCRAFT ACTUAL WEIGHT AND HORIZONTAL BALANCE

Serial No. AF52-790

FUSELAGE LEVEL

SCALE POSITION	SCALE READING (LBS.)	TARE OR SCALE ERROR	NET WEIGHT	HORIZ. ARM	MOMENT
L.H. Inboard Wing Jack	37,230	0	37,230	544.8	20,282,904
R.H. Inboard Wing Jack	36,830	0	36,830	544.8	20,064,984
Aft Fuselage Jack	7,590	+20	7,610	1167.8	8,886,958
TOTAL (AS WEIGHED)	81,650	+20	81,670	602.9	49,234,846

WEIGHED BY Henry Funderburg
USAF WITNESS Harrell Russell
DATE 15 September 1954 / 15 September 1954

CORRECTED WEIGHT & HORIZONTAL BALANCE

CONDITION	WEIGHT	HORIZ. ARM	MOMENT
AIRPLANE AS WEIGHED	81,670	(602.9)	49,234,846
Items Added - See page 17 -19 of 103	2,026		1,242,531
Items Deducted - See page 20 of 103	159		86,739
BASIC WEIGHT	83,537	(603.2)	50,390,638
Items Added - See page 21 of 103	391		345,954
Items Deducted - See page 22-23 of 103	1,734		1,073,214
TOTAL WEIGHT EMPTY	82,194	(604.2)	49,663,378

$$\text{BALANCE (CORRECTED)} = \frac{(\text{Horiz. Arm} - 584.8)\ (100)}{155.9} = \frac{(604.2 - 584.8)\ (100)}{155.9} = 12.4\ \%\text{M.A.C.}$$

BASIC WEIGHT DERIVATION		WEIGHT	HORIZONTAL ARM	HORIZONTAL MOMENT
Airplane as Weighed (Page 16 of 103)		81,670	(602.9)	49,234,846
Add Basic Items Not in Airplane as Weighed:				
Camera K-38 (24" Lens Cone)		53.6	41	2,198
Magazine - Film, Type A-8B		28.1	54	1,517
View Finder		98.0	72	7,056
Magazine Type C-1A		4.3	78	335
Camera - Body, Type C-1		8.4	83	697
Clock		.5	82	41
Ash Tray - Navigator		.3	109	33
Seat - Nav. Ejection		38.8	116	4,501
Safety Belt - Nav. Automatic		3.9	116	452
Shoulder Harness - Nav.		1.1	116	128
Cushion (Back) - Nav.		5.4	116	262
Cushion (Bottom) - Nav.		4.8	116	557
Initiators - T-4 Assy.	(2)	1.5	119	179
Initiator - T-4 Assy.		.8	123	98
Catapult - Personnel	(Charged)	8.7	125	1,088
Curtain - Anti-Glare	(2)	1.5	137	206
Load Adjuster & Case	(Stowed)	.8	154	123
Aircraft Checkers Report	(Stowed)	.9	154	139
Pilot's Operating Handbook	(Stowed)	1.4	154	216
Ash Tray - Pilot's		.6	171	103
Portable Oxygen Cylinder		6.0	173	1,038
Clock		.5	161	81
Indicator - Exhaust Temp.	(6)	3.3	161	531
Initiator Type T-5		.8	195	156
Thruster CLX-90-1		1.0	198	198
Initiator Type M-3	(2)	1.5	199	299
Fire Extinguisher Type A-20		7.9	203	1,604
Safety Belt - Pilot's Auto.		4.2	203	853
Shoulder Harness - Pilot's		1.1	203	223
Elevation Pad		.8	203	162
Cushion (Bottom) Pilot's		4.6	203	934
Cup-Food Warming		2.6	208	541
Catapult - Personnel	(Charged)	25.1	212	5,321
Initiator - Type M-4		.9	215	194
Initiator - Type T-5		.8	215	172
AF Form I Parts 1 Thru 5		.6	217	130
First Aid Kit		1.9	225	428
Dispenser - Drinking Cup		.4	230	92
Handbook - Oper. Instructions		3.4	233	792
Clock		.5	222	111

REVISED:

BASIC WEIGHT DERIVATION			WEIGHT	HORIZONTAL ARM	HORIZONTAL MOMENT
Add Basic Items Not in Airplanes as Weighed: (Cont'd.)					
Radio Facility Charts	(Stowed)	(2)	1.7	233	405
Radio Facility Chart & Flight Info.	(Stowed)	(2)	1.8	233	410
Handbook - Weight & Balance	(Stowed)		1.3	233	303
Supplementary Flight Info.	(Stowed)	(2)	1.5	233	350
Thermos Bottle		(2)	9.7	238	2,309
Periscopic Sextant & Stowage Box			20.4	245	4,998
Canopy Lock	(Stowed)	(2)	5.4	254	1,372
Hand Axe			2.6	254	660
Initiator Type T-5			.8	256	205
Initiator Type M-3			1.5	260	390
Thruster Type M-3			1.0	259	259
Safety Belt - Co-Pilot's Auto.			4.2	264	1,109
Shoulder Harness - Co-Pilot's			1.1	264	290
Elevation Pad			.8	264	211
Cushion (Bottom) - Co-Pilot's			4.6	264	1,214
Initiator Type M-4			.9	264	238
Portable Oxygen Cylinder			6.0	268	1,608
Catapult - Personnel	(Charged)		25.1	275	6,903
Initiator - Type T-5			.8	278	222
Inspection Regulations	(Stowed)		.7	312	218
Book Assy. - Radio	(Stowed)		2.1	312	655
Book Assy. - Elect.	(Stowed)		5.5	312	1,716
Cover - Aircraft Canopy	(Stowed)		31.5	330	10,395
Rod Assy. - Aft Main Gaging	(Stowed)		1.1	349	384
Cover Assy. - Fwd. Wheel Well	(Stowed)		16.5	362	5,973
Cover Assy. - Aft. Wheel Well	(Stowed)		18.6	362	6,733
Camera K-38 (36" Lens Cone)		(2)	121.6	539	65,542
Magazine A-8B		(2)	56.2	539	30,292
Camera K-38 (36" Lens Cone)			60.8	573	34,838
Magazine A-8B			28.1	573	16,101
Camera KA-3 (LA-7 Lens Cone)		(3)	88.0	610	53,680
Magazine A-28		(3)	154.8	610	94,428
Control - Memory Delay			6.2	619	3,838
Mounting Base - Memory Delay Unit			4.4	619	2,724
Pulse Shaper - Memory Delay Unit		(2)	4.1	619	2,538
Main L.G. Locks	(Stowed)	(2)	2.0	1026	2,052
Jack Pads	(Stowed)	(4)	6.0	1026	6,156
Mooring Eyes	(Stowed)	(2)	1.2	1026	1,231
Dectector - Photo Flash			9.3	1056	9,821
Cover Assy. - Tail Turret	(Stowed)		8.9	1067	9,496

REVISED

BASIC WEIGHT DERIVATION			WEIGHT	HORIZONTAL ARM	HORIZONTAL MOMENT
Add Basic Items Not in Airplane as Weighed: (Cont'd.)					
Outrigger L.G. Locks	(Stowed)	(2)	23.5	1070	25,145
Cover Assy. - Fuselage Nose	(Stowed)		16.7	1075	17,953
Battery K-1		(2)	146.2	1108	161,990
Parachute Assy. - Approach			33.2	1187	39,408
Brake Chute			87.0	1189	103,443
Booster & Box Assy.		(2)	52.0	1234	64,168
Gun Charger		(2)	27.8	1269	35,278
Ammo Chute		(2)	14.6	1270	18,542
Heater - Gun		(2)	1.5	1282	1,923
Feeder Mechanism		(2)	39.2	1285	50,372
Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)			534.0		304,000
Moment Change - Fwd. Main Gear Down Compressed to Down Extended					3,540
Moment Change - Aft. Main Gear Down Compressed to Down Extended					- 290
Moment Change - Outriggers Down Compressed to Down Extended					1,003
TOTAL ADDITIONS			2025.8		1,242,531

REVISED

PREPARED BY T. Slack

CHECKED BY L. Hile

DATE 9-15-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO. WD-10387

MODEL RB-47E

BASIC WEIGHT DERIVATION		WEIGHT	HORIZONTAL ARM	HORIZONTAL MOMENT
Deduct Non Basic Items From Airplane as Weighed:				
Catapult - Shop Equipment		.8	212	170
Catapult - Dummy		6.0	275	1,650
Fwd. Main Down Lock		1.0	346	346
Oleo Locks		17.8	404	7,191
Down Locks - Bomb Doors	(2)	7.1	428	3,039
Aft. Main Gear Down Locks		1.0	792	792
Oleo Locks		18.3	853	15,610
Wing Jack Cones	(4)	6.0	602	3,612
Mooring Eyes	(2)	1.2	649	779
Intake Protective Screens	(4)	37.0	427	15,799
Lock Assy. L.G. Down	(2)	23.5	547	12,855
Oleo Locks - Outriggers	(2)	20.3	562	11,409
Intake Protective Screens	(2)	18.5	729	13,487
TOTAL DEDUCTIONS		158.5		86,739
BASIC WEIGHT - WHEELS DOWN		83,537	(603.2)	50,390,638

REVISED

E-90 82

PREPARED BY L. Hile

CHECKED BY L. Denny

DATE 9-24-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO. WD-10387

MODEL RB-47E

WEIGHT EMPTY DERIVATION FROM A BASIC WEIGHT CONDITION		WEIGHT	HORIZONTAL ARM	HORIZONTAL MOMENT
BASIC WEIGHT - WHEELS DOWN		83,537	(603.2)	50,390,638
Add Weight Empty Items Not in Basic Weight:				
Antenna, AS-679/APS-54		2.0	8	16
Control Panel-Chaff Dispenser		4.2	280	1,176
Control Indicator, C-1323/APS-54		2.0	300	600
Amplifier, AM-924/APS-54		11.8	303	3,575
Light Detector-Terrain, Type B-2	(2)	26.0	605	15,730
Synchronizer - Marker Unit, Type C-1	(2)	18.1	619	11,204
Life Raft Assy. & Accessories, Mark IV		44.8	624	27,955
Stripper Unit - Chaff	(2)	45.3	755	34,202
Intervalometer - Chaff	(2)	14.0	846	11,844
Detector - Image Velocity, Type A-3		8.2	1061	8,700
Transmitter, T-116/APT-5A	(2)	115.6	1075	124,270
Rectifier-Power Unit, PP-104/APT-5	(2)	81.0	1075	87,075
Antenna Coupler, CU-215/APT	(2)	2.8	1077	3,016
Antenna, AS-690/APS-54		2.0	1285	2,570
Instl. N. & B.		.2		215
Light Detector-Terrain, Type B-2		13.0	1062	13,806
TOTAL ADDITIONS		391.0		345,954

REVISED:

WEIGHT EMPTY DERIVATION FROM A BASIC WEIGHT CONDITION			WEIGHT	HORIZONTAL ARM	HORIZONTAL MOMENT
Deduct Basic Weight Items Not in Weight Empty:					
Camera K-38 (24" Lens Cone)			53.6	41	2,198
Magazine - Camera Type A-8B			28.1	54	1,517
Mount			9.3	41	381
Cushion (Bottom) Navigator's			4.8	116	557
Oxygen Cylinder, F-1			9.3	165	1,535
Portable Oxygen Cylinder, MA-1			6.0	173	1,038
Cushion & Pad (Bottom) - Pilot's			5.4	203	1,096
Oxygen Cylinder - G-1			17.7	207	3,664
Canopy Lock	(Stowed)	(2)	5.4	254	1,372
Cushion & Pad (Bottom) - Co-Pilot's			5.4	264	1,426
Portable Oxygen Cylinder, MA-1			6.0	268	1,608
Oxygen in System			19.6		7,271
Cover - Canopy	(Stowed)		31.5	330	10,395
Rod Assy. - Main Aft Gaging			1.1	349	384
Cover Assy. - Fwd. Wheel Well	(Stowed)		16.5	362	5,973
Cover Assy. - Aft. Wheel Well	(Stowed)		18.6	362	6,733
Oxygen Cylinder, G-1		(2)	35.4	170	6,018
Oxygen Cylinder, F-1			9.3	191	1,776
Oxygen Cylinder, G-1			17.7	276	4,885
Release Assy. Photo Flash Bomb		(10)	28.0	459	12,852
Bomb Shackle		(10)	31.0	459	14,229
Camera, K-38 (36" Lens Cone)		(2)	121.6	539	65,542
Magazine - Camera Type A-8B		(2)	56.2	539	30,292
Camera, K-38 (36" Lens Cone)			60.8	573	34,838
Magazine - Camera Type A-8B			28.1	573	16,101
Camera, KA-3 (LA-7 Lens Cone)		(3)	88.0	610	53,680
Magazine - Camera Type A-28		(3)	154.8	610	94,428
Oxygen Cylinder, F-1		(2)	18.6	757	14,080
Oxygen Cylinder, G-1			17.7	839	14,850
Main L.G. Locks	(Stowed)	(2)	2.0	1026	2,052
Jack Pads	(Stowed)	(4)	6.0	1026	6,156
Mooring Eyes	(Stowed)	(2)	1.2	1026	1,231
Cover Assy. - Tail Turret	(Stowed)		8.9	1067	9,496
Outrigger L.G. Locks	(Stowed)	(2)	23.5	1070	25,145
Cover Assy. - Fuselage Nose			16.7	1075	17,953
Radio, Electrical & Placard Book			7.6	312	2,371

REVISED

WEIGHT EMPTY DERIVATION FROM A BASIC WEIGHT CONDITION		WEIGHT	HORIZONTAL ARM	HORIZONTAL MOMENT
Deduct Basic Weight Items Not in Weight Empty: Cont'd.				
Gun Chargers	(2)	27.8	1269	35,278
Heaters J-5	(2)	1.5	1282	1,923
Guns - Aircraft 20 MM	(2)	198.5	1292	256,462
Unusable Fuel		534.0		304,000
Instl. B. & N.		.8		428
TOTAL DEDUCTIONS		1734.0		1,073,214
WEIGHT EMPTY - WHEELS DOWN	12.4% MAC	82,194	(604.2)	49,663,378
Raise Wheels				- 312,000
WEIGHT EMPTY - WHEELS UP	10.0% MAC	82,194	(600.4)	49,351,378

REVISED:

PREPARED BY L. Hile

CHECKED BY L. Denny

DATE 10-5-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO. WD-10387

MODEL RB-47E

BALANCE SUMMARY DESIGN GROSS WEIGHT		WEIGHT	HORIZONTAL	
			ARM	MOMENT
Non-Expendable Useful Load		(2,411)		(1,145,990)
Pilot		230	190.0	43,700
Co-Pilot		230	252.0	57,960
Photo-Navigator		230	108.0	24,840
Navigation Equipment		24	120.0	2,880
Oxygen Bottles		138		49,597
Survival Kits	(3)	54	183.3	9,898
Spare Amplifiers - K-System	(16)	31	145.0	4,495
Unusable Fuel		534		304,000
20 MM Cannon	(2)	199	1292.0	257,108
Chargers & Heaters - Gun	(2)	29	1270.0	36,830
Photographic Equipment (Day Mission)		712		354,682
Expendable Useful Load		(40,395)		(27,153,152)
Oil - Engine (20 Gals. at 7.5#/Gal.)		150	641.3	96,195
Oxygen		20		7,271
Purging - Dry Ice		83	764.4	63,445
Ammunition - 20 MM (700 Rounds)		434	1235.0	535,990
Chaff (768 Packages)		845	782.0	660,790
Fuel - Normal Fixed (5,979 Gals. at 6.5#/Gal.)		38,863		25,789,461
TOTAL USEFUL LOAD		(42,806)		(28,299,142)
WEIGHT EMPTY - WHEELS UP	10.0% MAC	82,194	(600.4)	49,351,378
DESIGN GROSS WEIGHT - WHEELS UP	23.3% MAC	125,000	(621.2)	77,650,520
Lower Wheels				+ 312,000
DESIGN GROSS WEIGHT - WHEELS DOWN	25.0% MAC	125,000	(623.7)	77,962,520

REVISED

8-98 R2

PREPARED BY L. Hile

CHECKED BY L. Denny

DATE 10-5-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO WD-10387

MODEL RB-47E

BALANCE SUMMARY MAXIMUM FLIGHT AND TAXI GROSS WEIGHT (LESS EXTERNAL TANKS)(DAY MISSION)			WEIGHT	HORIZONTAL	
				ARM	MOMENT
Non-Expendable Useful Load			(2,411)		(1,145,990)
Pilot			230	190.0	43,700
Co-Pilot			230	252.0	57,960
Photo - Navigator			230	108.0	24,840
Navigation Equipment			24	120.0	2,880
Oxygen Bottles			138		49,597
Survival Kits		(3)	54	183.3	9,898
Spare Amplifiers - K-System		(16)	31	145.0	4,495
Unusable Fuel			534		304,000
20 MM Cannon		(2)	199	1292.0	257,108
Chargers & Heaters - Gun		(2)	29	1270.0	36,830
Photographic Equipment			712		354,682
Expendable Useful Load			(99,137)		(64,584,646)
Oil - Engine (26 Gals. at 7.5#/Gal.)			195	641.3	125,054
Oxygen			20		7,271
Purging - Dry Ice			83	764.4	63,445
Ammunition - 20 MM (700 Rounds)			434	1235.0	535,990
Chaff (768 Packages)			845	782.0	660,790
Fuel - Normal Fixed (15,009 Gals. at 6.5#/Gal.)			97,560		63,192,096
TOTAL USEFUL LOAD			(101,548)		(65,730,636)
WEIGHT EMPTY - WHEELS UP		10.0% MAC	82,194	(600.4)	49,351,378
MAX. FLIGHT GROSS WEIGHT - WHEELS UP (Less Ext. Tanks)		26.6% MAC	183,742	(626.3)	115,082,014
Lower Wheels					+312,000
ATO Rack External			+509	916.4	+466,448
ATO Bottles		(33)	+2,244	916.8	+2,057,299
ATO Propellant (Bottle Type)			+2,376	914.3	+2,172,377
Engine Augmentation - Water & Alcohol			+5,300	502.0	+2,660,600
MAX. TAXI GROSS WEIGHT - WHEELS DOWN (Less Ext. Tanks)		30.4% MAC	194,171	(632.2)	122,750,738

REVISED:

PREPARED BY La Hile

CHECKED BY La Denny

DATE 10-4-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO. WD-10387

MODEL RB-47E

BALANCE SUMMARY MAXIMUM FLIGHT AND TAXI GROSS WEIGHT (LESS EXTERNAL TANKS)(NIGHT MISSION)		WEIGHT	HORIZONTAL ARM	HORIZONTAL MOMENT
Non-expendable Useful Load		(2,398)		(1,182,613)
Pilot		230	190.0	43,700
Co-Pilot		230	252.0	57,960
Photo-Navigator		230	108.0	24,840
Navigation Equipment		24	120.0	2,880
Oxygen Bottles		138		49,597
Survival Kits	(3)	54	183.3	9,898
Spare Amplifiers - K-System	(16)	31	145.0	4,495
Unusable Fuel		534		304,000
Installation Parts - Photo Bomb		59	459.0	27,081
20 MM Cannon	(2)	199	1292.0	257,108
Chargers & Heaters - Gun	(2)	29	1270.0	36,830
Photographic Equipment		640		364,224
Expendable Useful Load		(100,817)		(65,477,626)
Oil - Engine (26 Gals. at 7.5#/Gal.)		195	641.3	125,054
Oxygen		20		7,271
Purging - Dry Ice		83	764.4	63,445
Ammunition - 20 MM (700 Rounds)		434	1235.0	535,990
Photoflash Cartridges	(200)	180	1061.0	190,980
Photo-Bomb	(10)	1,500	468.0	702,000
Chaff (768 Packages)		845	782.0	660,790
Fuel - Normal Fixed (15,009 Gals. at 6.5#/Gal.)		97,560		63,192,096
TOTAL USEFUL LOAD		(103,215)		(66,660,239)
WEIGHT EMPTY - WHEELS UP 10.0% MAC		82,194	(600.4)	49,351,378
MAX. FLIGHT GROSS WEIGHT - WHEELS UP 26.2% MAC (Less Ext. Tanks)		185,409	(625.7)	116,011,617
Lower Wheels				+ 312,000
ATO Rack - External		+ 509	916.4	466,448
ATO Bottles	(33)	+ 2,244	916.8	2,057,299
ATO Propellant - Bottle Type		+ 2,376	914.3	2,172,377
Engine Augmentation - Water & Alcohol		+ 5,300	502.0	2,660,600
MAX. TAXI GROSS WEIGHT - WHEELS DOWN (Less Ext. Tanks) 30.0% MAC		195,838	(631.5)	123,680,341

REVISED:

E-90 R2

PREPARED BY L. Hile

CHECKED BY L. Denny

DATE 10-4-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO WD-10387

MODEL RB-47E

BALANCE SUMMARY MAXIMUM TAXI GROSS WEIGHT (WITH EXT. TANKS)(WITH ATO)(DAY MISSION)	WEIGHT	HORIZONTAL	
		ARM	MOMENT
Non-expendable Useful Load	(2,411)		(1,145,990)
Pilot	230	190.0	43,700
Co-Pilot	230	252.0	57,960
Photo-Navigator	230	108.0	24,840
Navigation Equipment	24	120.0	2,880
Oxygen Bottles	138		49,597
Survival Kits (3)	54	183.3	9,898
Spare Amplifiers (16)	31	145.0	4,495
Unusable Fuel	534		304,000
20 MM Cannon (2)	199	1292.0	257,108
Chargers & Heaters - Gun (2)	29	1270.0	36,830
Photographic Equipment	712		354,682
Expendable Useful Load	(115,395)		(75,129,818)
Oil - Engine (37 Gals. at 7.5#/Gal.)	278	641.3	178,281
Fuel - Wing Droppable (3,346 Gals. at 6.5#/Gal.)	21,749	690.0	15,006,810
Fuel Tanks - Wing Droppable	1,560	698.9	1,090,284
Oxygen	20		7,271
Purging - Dry Ice	160	764.4	122,304
Ammunition - 20 MM (700 Rounds)	434	1235.0	535,990
Chaff (768 Packages)	845	782.0	660,790
ATO Rack - External	509	916.4	466,448
ATO Bottles (33)	2,244	916.8	2,057,299
ATO Propellant (Bottle Type)	2,376	914.3	2,172,377
Engine Augmentation - Water & Alcohol)	5,300	502.0	2,660,600
Fuel - Normal Fixed (12,295 Gals. at 6.5#/Gal.)	79,920		50,171,364
TOTAL USEFUL LOAD	(117,806)		(76,275,808
WEIGHT EMPTY - WHEELS DOWN 12.4% MAC	82,194	(604.2)	49,663,378
MAX. TAXI GROSS WEIGHT - WHEELS DOWN (With Ext. Tanks)(With ATO) 28.8% MAC	200,000	(629.7)	125,939,186

REVISED

PREPARED BY L. Hile

CHECKED BY L. Danny

DATE 10-5-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO. WD-10387

MODEL RB-47E

BALANCE SUMMARY MAXIMUM TAXI GROSS WEIGHT (WITH EXT. TANKS)(WITH ATO)(NIGHT MISSION)		WEIGHT	HORIZONTAL	
			ARM	MOMENT
Non-expendable Useful Load		(2,398)		(1,182,613)
Pilot		230	190.0	43,700
Co-Pilot		230	252.0	57,960
Photo - Navigator		230	108.0	24,840
Navigation Equipment		24	120.0	2,880
Oxygen Bottles		138		49,597
Survival Kits	(3)	54	183.3	9,898
Spare Amplifiers - K-System	(16)	31	145.0	4,495
Unusable Fuel		534		304,000
Installation Parts - Photo Bomb		59	459.0	27,081
20 MM Cannon	(2)	199	1292.0	257,108
Chargers & Heater - Gun	(2)	29	1270.0	36,830
Photographic Equipment		640		364,224
Expendable Useful Load		(115,408)		(74,880,069)
Oil-Engine (37 Gals. at 7.5#/Gal.)		278	641.3	178,281
Fuel-Wing Droppable (3,346 Gals. at 6.5#/Gal.)		21,749	690.0	15,006,810
Fuel Tanks-Wing Droppable		1,560	698.9	1,090,284
Oxygen		20		7,271
Purging - Dry Ice		160	764.4	122,304
Ammunition - 20 MM (700 Rounds)		434	1235.0	535,990
Photoflash Cartridges	(200)	180	1061.0	190,980
Bomb - Photo	(10)	1,500	468.0	702,000
Chaff (768 Packages)		845	782.0	660,790
ATO Rack - External		509	916.4	466,448
ATO Bottles	(33)	2,244	916.8	2,057,299
ATO Propellant (Bottle Type)		2,376	914.3	2,172,377
Engine Augmentation - Water & Alcohol		5,300	502.0	2,660,600
Fuel - Normal Fixed (12,039 Gals. at 6.5#/Gal.)		78,253		49,028,635
TOTAL USEFUL LOAD		(117,806)		(76,062,682)
WEIGHT EMPTY-WHEELS DOWN 12.4% MAC		82,194	(604.2)	49,663,378
MAX. TAXI GROSS WEIGHT - WHEELS DOWN (With Ext. Tanks) (With ATO) 28.1% MAC		200,000	(628.6)	125,726,060

REVISED

BALANCE SUMMARY MAXIMUM TAXI GROSS WEIGHT (WITH EXT. TANKS)(LESS ATO)(DAY MISSION)		WEIGHT	HORIZONTAL	
			ARM	MOMENT
Non-expendable Useful Load		(2,411)		(1,145,990)
Pilot		230	190.0	43,700
Co-Pilot		230	252.0	57,960
Photo-Navigator		230	108.0	24,840
Navigation Equipment		24	120.0	2,880
Oxygen Bottles		138		49,597
Survival Kits	(3)	54	183.3	9,898
Spare Amplifiers - K-System	(16)	31	145.0	4,495
Unusable Fuel		534		304,000
Photographic Equipment		712		354,682
20 MM Cannon	(2)	199	1292.0	257,108
Chargers & Heaters - Gun	(2)	29	1270.0	36,830
Expendable Useful Load		(115,395)		(73,949,623)
Fuel - Normal Fixed (13,084 Gals. at 6.5#/Gal.)		85,049		53,687,293
Oil - Engine (37 Gals. at 7.5#/Gal.)		278	641.3	178,281
Fuel - Wing Droppable (3,346 Gals. at 6.5#/Gal.)		21,749	690.0	15,006,810
Fuel Tanks - Wing Droppable		1,560	698.9	1,090,284
Oxygen		20		7,271
Purging - Dry Ice		160	764.4	122,304
Ammunition - 20 MM (700 Rounds)		434	1235.0	535,990
Chaff (768 Packages)		845	782.0	660,790
Engine Augmentation - Water & Alcohol		5,300	502.0	2,660,600
TOTAL USEFUL LOAD		(117,806)		(75,095,613)
WEIGHT EMPTY - WHEELS DOWN 12.4% MAC		82,194	(604.2)	49,663,378
MAX. TAXI GROSS WEIGHT - WHEELS DOWN (With Ext. Tanks)(Less ATO) 25.0% MAC		200,000	(623.8)	124,758,991

REVISED

PREPARED BY L. Hile

CHECKED BY L. Denny

DATE 10-5-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO. WD-10387

MODEL RB-47E

BALANCE SUMMARY MAXIMUM TAXI GROSS WEIGHT (WITH EXT. TANKS)(LESS ATO)(NIGHT MISSION)		WEIGHT	HORIZONTAL ARM	HORIZONTAL MOMENT
Non-expendable Useful Load		(2,398)		(1,182,613)
Pilot		230	190.0	43,700
Co-Pilot		230	252.0	57,960
Photo-Navigator		230	108.0	24,840
Navigation Equipment		24	120.0	2,880
Oxygen Bottles		138		49,597
Survival Kits	(3)	54	183.3	9,898
Spare Amplifiers, K-System	(16)	31	145.0	4,495
Unusable Fuel		534		304,000
Photographic Equipment		640		364,224
Instl. Parts - Photo Bomb		59	459.0	27,081
20 MM Cannon	(2)	199	1292.0	257,108
Chargers & Heaters - Gun	(2)	29	1270.0	36,830
Expendable Useful Load		(115,408)		(73,700,816)
Fuel - Normal Fixed (12,828 Gals. at 6.5#/Gal.)		83,382		52,545,506
Oil - Engine (37 Gals. at 7.5#/Gal.)		278	641.3	178,281
Fuel - Wing Droppable (3,346 Gals. at 6.5#/Gal.)		21,749	690.0	15,006,810
Fuel Tanks - Wing Droppable		1,560	698.9	1,090,284
Oxygen		20		7,271
Purging - Dry Ice		160	764.4	122,304
Ammunition - 20 MM (700 Rounds)		434	1235.0	535,990
Photoflash Cartridges	(200)	180	1061.0	190,980
Bomb - Photo	(10)	1,500	468.0	702,000
Chaff (768 Packages)		845	782.0	660,790
Engine Augmentation - Water & Alcohol		5,300	502.0	2,660,600
TOTAL USEFUL LOAD		(117,806)		(74,883,429)
WEIGHT EMPTY - WHEELS DOWN 12.4% MAC		82,194	(604.2)	49,663,378
MAX. TAXI GROSS WEIGHT - WHEELS DOWN 24.3% MAC (With Ext. Tanks)(Less ATO)		200,000	(622.7)	124,546,807

PREPARED BY L. Hile

CHECKED BY L. Denny

DATE 10-5-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO. WD-10387

MODEL RB-47E

BALANCE SUMMARY MAXIMUM FLIGHT GROSS WEIGHT (WITH EXT. TANKS)(REFUELED)(DAY MISSION)		WEIGHT	HORIZONTAL	
			ARM	MOMENT
Non-expendable Useful Load:		(2,411)		(1,145,990)
Pilot		230	190.0	43,700
Co-Pilot		230	252.0	57,960
Photo-Navigator		230	108.0	24,840
Navigation Equipment		24	120.0	2,880
Oxygen Bottles		138		49,597
Survival Kits	(3)	54	183.3	9,898
Spare Amplifiers - K-System	(16)	31	145.0	4,495
Unusable Fuel		534		304,000
Photographic Equipment		712		354,682
20 MM Cannon	(2)	199	1292.0	257,108
Chargers & Heaters - Gun	(2)	29	1270.0	36,830
Expendable Useful Load:		(122,606)		(80,793,826)
Fuel - Normal Fixed (15,009 Gals. at 6.5#/Gal.)		97,560		63,192,096
Oil - Engine (37 Gals. at 7.5#/Gal.)		278	641.3	178,281
Fuel - Wing Droppable (3,346 Gals. at 6.5#/Gal.)		21,749	690.0	15,006,810
Fuel Tanks - Wing Droppable		1,560	698.9	1,090,284
Oxygen		20		7,271
Purging - Dry Ice		160	764.4	122,304
Ammunition - 20 MM (700 Rounds)		434	1235.0	535,990
Chaff (768 Packages)		845	782.0	660,790
TOTAL USEFUL LOAD		(125,017)		(81,939,816)
WEIGHT EMPTY - WHEELS UP 10.0% MAC		82,194	(600.4)	49,351,378
MAX. FLIGHT GROSS WEIGHT - WHEELS UP 31.3% MAC (With Ext. Tanks) (Refueled)		207,211	(633.6)	131,291,194

REVISED

PREPARED BY L. Hile

CHECKED BY L. Denny

DATE 10-5-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION

REPORT NO. WD-10387

MODEL RB-47E

BALANCE SUMMARY MAX. FLIGHT GROSS WEIGHT (WITH EXT. TANKS)(REFUELED)(NIGHT MISSION)		WEIGHT	HORIZONTAL	
			ARM	MOMENT
Non-expendable Useful Load:		(2,398)		(1,182,613)
Pilot		230	190.0	43,700
Co-Pilot		230	252.0	57,960
Photo - Navigator		230	108.0	24,840
Navigation Equipment		24	120.0	2,880
Oxygen Bottles		138		49,597
Survival Kits	(3)	54	183.3	9,898
Spare Amplifiers - K-System	(16)	31	145.0	4,495
Unusable Fuel		534		304,000
Photographic Equipment		640		364,224
Installation Parts - Photo Bomb		59	459.0	27,081
20 MM Cannon	(2)	199	1292.0	257,108
Chargers & Heaters - Gun	(2)	29	1270.0	36,830
Expendable Useful Load:		(124,286)		(81,686,806)
Fuel - Normal Fixed (15,009 Gals. at 6.5#/Gal.)		97,560		63,192,096
Oil - Engine (37 Gals. at 7.5#/Gal.)		278	641.3	178,281
Fuel - Wing Droppable (3,346 Gals. at 6.5#/Gal.)		21,749	690.0	15,006,810
Fuel Tanks - Wing Droppable		1,560	698.9	1,090,284
Oxygen		20		7,271
Purging - Dry Ice		160	764.4	122,304
Ammunition - 20 MM (700 Rounds)		434	1235.0	535,990
Photoflash Cartridges	(200)	180	1061.0	190,980
Bomb - Photo	(10)	1,500	468.0	702,000
Chaff (768 Packages)		845	782.0	660,790
TOTAL USEFUL LOAD		(126,684)		(82,869,419)
WEIGHT EMPTY - WHEELS UP 10.0% MAC		82,194	(600.4)	49,351,378
MAX. FLIGHT GROSS WEIGHT - WHEELS UP 30.9% MAC (With Ext. Tanks) (Refueled)		208,878	(633.0)	132,220,797

REVISED:

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E-14

SPEC. d1370-1
PAGE NO.

	USEFUL LOAD G.F.A.E. SUMMARY ITEM	CHANGE NO.	TOTAL PER AIRPLANE						
			QUANTITY	SPEC WT		CURRENT REPORT		OVER OR UNDER WT.	
				PREVIOUS	CURRENT	ACTUAL WT	OVER OR UNDER WT.	PREVIOUS	SINCE LAST REPORT
	Ordnance			225	225	228	+ 3	+ 3	- - - -
	Photographic			677	689	702	+13	+51	- 38
	Total G.F.A.E. Useful Load			902	914	930			
	Total G.F.A.E. Useful Load Overweight						+16	+54	- 38
	PHOTOGRAPHIC			677.0	689.0	702.2	+13.2	+51.3	- 38.1
136	Tri-Camera Station								
	Magazine, Type LA-12 & Film	1962M (Out)	3	195.0	- - -	- - -	- - -	+30.9	- 30.9
	Magazine, Type A-28	1742M	3	- - -	207.0	199.8	- 7.2	- - -	- 7.2

Note: This list does not include G.F.A.E. useful load items installed by service activities.

PREP BY L. Hile
CHKD BY L. Denny
DATE 9-30-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION
GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT
CONTRACT NO.

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REPORT WD-10387
MODEL RB-47E

E 184

SPEC. D-11370-1 PAGE NO

PREP BY L. Hill
CHKD BY L. Henry
DATE 9-30-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION
GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT
CONTRACT NO.

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REPORT D-10387
MODEL RB-47E

G.F.A.E. SUMMARY WEIGHT EMPTY ITEM	CHANGE NO.	TOTAL PER AIRPLANE						
		QUANTITY	SPEC WT		CURRENT REPORT		OVER OR UNDER WT	
			PREVIOUS	CURRENT	ACTUAL WT	OVER OR UNDER WT	PREVIOUS	SINCE LAST REPORT
Main Alighting Gear			3489	3489	3177	- 312	- 245	- 67
Auxiliary Alighting Gear			117	117	123	+ 6	+ 6	- - - -
Engines			16062	16062	15877	- 185	- 109	- 76
Accessory Gear Boxes & Drives			121	121	121	- - - -	- - - -	- - - -
Water Injection			99	99	107	+ 8	+ 8	- - - -
Exhaust System			20	20	21	+ 1	+ 1	- - - -
Instruments			225	210	214	+ 4	+ 4	- - - -
Electrical Equipment			507	507	507	- - - -	- - - -	- - - -
Electronics			2013	2048	2009	- 39	- 37	- 2
Armament			1090	1090	1167	+ 77	+ 77	- - - -
Photographic			192	569	599	+ 30	- 16	+ 46
Personnel Accommodations			86	86	89	+ 3	+ 3	- - - -
Emergency Accommodations			56	56	47	- 9	- 9	- - - -
TOTAL G.F.A.E. WEIGHT EMPTY			24077	24474	24058			
TOTAL G.F.A.E. WEIGHT EMPTY UNDERWEIGHT						- 416	- 317	- 99

E 781

SPEC 011370-1
PAGE NO

ITEM	CHANGE NO.	QUANTITY	TOTAL PER AIRPLANE					
			SPEC WT		CURRENT REPORT		OVER OR UNDER WT	
			PREVIOUS	CURRENT	ACTUAL WT	OVER OR UNDER WT	PREVIOUS	SINCE LAST REPORT
G.F.A.E. WEIGHT EMPTY								
ALIGHTING GEAR			3605.6	3605.6	3300.0	-305.6	-238.5	- 67.1
96 Main Gear (Includes Wheels, Tires, Tubes & Brakes)			3489.0	3489.0	3177.0	-312.0	-245.0	- 67.0
96 Outrigger Gear (Includes Wheels, Tires & Tubes)			116.6	116.6	123.0	+ 6.4	+ 6.5	- .1

PREP BY L. Hile
CHKD BY L. Denny
DATE 9-30-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION
GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT
CONTRACT NO

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REPORT D-10387
MODEL RB-47E

E-784

PREP BY L. E. Hill
CHKD BY L. E. Derry
DATE 1-30-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION
GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT
CONTRACT NO

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MODEL RB-47E

SPEC. D. PAGE NO.	G.F.A.E. WEIGHT EMPTY ITEM	CHANGE NO	TOTAL PER AIRPLANE						
			QUANTITY	SPEC WT PREVIOUS	SPEC WT CURRENT	CURRENT REPORT ACTUAL WT	CURRENT REPORT OVER OR UNDER WT	OVER OR UNDER WT PREVIOUS	OVER OR UNDER WT SINCE LAST REPORT
	PROPULSION								
9	Engines, Type TE-J47-25A		6	16062.00	16062.00	15877.00	-185.00	-109.00	- 76.00
	INSTRUMENTS			225.04	210.04	213.89	+ 3.85	+ 3.69	+ .16
74	Clock, Type A-11	1757 M	3	1.14	- - -	- - -	- - -	- - -	- - -
	Clock, Type A-13A		3	- - -	1.14	1.38	+ .24	- - -	+ .24
76	Inverter, AN3533	1667 M	2	50.00	- - -	- - -	- - -	- 1.92	+ 1.92
76	Inverter, AN3534-1		1	- - -	35.00	33.00	- 2.00	- - -	- 2.00
	ELECTRONICS			2012.62	2047.62	2008.90	- 38.72	- 36.72	- 2.00
76	Inverter, AN3534-1	1667 M	1	- - -	35.00	33.00	- 2.00	- - -	- 2.00

PREP BY L. Hile
CHKD BY J. Perry
DATE 9-30-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION
GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT
CONTRACT NO

	G.F.A.E. WEIGHT EMPTY ITEM	CHANGE NO	QUANTITY	TOTAL PER AIRPLANE SPEC WT PREVIOUS	SPEC WT CURRENT	CURRENT REPORT ACTUAL WT	CURRENT REPORT OVER OR UNDER WT	OVER OR UNDER WT PREVIOUS	OVER OR UNDER WT SINCE LAST REPORT
	PHOTOGRAPHIC			192.00	569.05	599.23	+30.18	-16.30	+ 46.48
140	Amplifier, Control E-1	2284M & -1M	8	- - -	13.12	13.12	- - -	- - -	- - -
	Mount Base, Memory Delay Unit, Type B-5	2284M	1	- - -	4.35	4.35	- - -	- - -	- - -
	Pulse Shaper, Memory Delay Unit, Type A-2	2284M	2	- - -	4.14	4.14	- - -	- - -	- - -
	Mount Base, Computer Unit, Type B-1		5	- - -	25.25	25.25	- - -	- - -	- - -
	Control, Parameter Selector, Type D-4		5	- - -	13.25	13.25	- - -	- - -	- - -
	Intervalometer, Automatic Overlap, Type C-1		3	- - -	8.88	8.88	- - -	- - -	- - -
	Computer, Control Data, Type B-1		5	- - -	8.95	8.95	- - -	- - -	- - -
	Mount Base, Amplifier Unit, Type B-2		4	- - -	19.16	19.16	- - -	- - -	- - -
	Amplifier, Control, Type D-1		4	- - -	42.44	42.44	- - -	- - -	- - -
	Pulse Shaper, Film Mark Time Base, Type A-1	2284M	4	- - -	6.48	6.48	- - -	- - -	- - -
	Chassis, Amplifier Unit, Type D-3	1742M	2	- - -	58.20	77.64	+19.44	- - -	+ 19.44
	Chassis, Computer Unit, Type D-2		2	- - -	54.60	74.26	+19.66	- - -	+ 19.66
	Control, Forward Camera Sta., Type K-1		1	- - -	1.50	1.73	+ .23	- - -	+ .23
	Control, Interval, Photo Flash Bomb Release, F-3		1	- - -	5.00	5.54	+ .54	- - -	+ .54
	Control, Interval, Photo Flash Cart. Eject., F-2		1	- - -	3.50	5.00	+ 1.50	- - -	+ 1.50
	Control, Master, Type L-6		1	- - -	5.00	4.88	- .12	- - -	- .12
	Control, Split Vert. Sta., Type K-3		1	- - -	1.50	1.75	+ .25	- - -	+ .25
	Control, Tri-Camera Sta., Type K-4		1	- - -	1.50	1.79	+ .29	- - -	+ .29
	Control, Vertical Sta., Type K-2		1	- - -	1.50	1.71	+ .21	- - -	+ .21
	Detector, Image Velocity, Type A-3		1	- - -	11.00	8.15	- 2.85	- - -	- 2.85
	Detector, Photo Flash, Camera Cont., C-1	2399M	1	- - -	20.00	9.25	-10.75	- - -	- 10.75
	Detector, Terrain Light, Type B-2		3	- - -	39.00	39.00	- - -	- - -	- - -
	Indicator, Door Position, Type C-1		1	- - -	1.00	.83	- .17	- - -	- .17
	Junction Box, Camera Sta. Cont., C-4		1	- - -	1.50	.83	- .67	- - -	- .67
	Junction Box, Camera Sta. Cont., C-5		1	- - -	1.50	.83	- .67	- - -	- .67
	Junction Box, Conventional Camera, C-3		1	- - -	1.50	2.71	+ 1.21	- - -	+ 1.21
	Junction Box, Door Position Relay, C-6	1742M	1	- - -	2.50	1.31	- 1.19	- - -	- 1.19

E-784

E 784

	G.F.A.E. WEIGHT EMPTY ITEM	CHANGE NO	TOTAL PER AIRPLANE						
			QUANTITY	SPEC WT PREVIOUS	SPEC WT CURRENT	CURRENT REPORT ACTUAL WT	CURRENT REPORT OVER OR UNDER WT	OVER OR UNDER WT PREVIOUS	OVER OR UNDER WT SINCE LAST REPORT
	PHOTOGRAPHIC (Cont'd)								
140	Junction Box, Door Position Relay, C-7	1742M	1	- - -	1.50	3.59	+ 2.09	- - - -	+ 2.09
	Junction Box, Main, Type C-1		1	- - -	34.00	29.61	- 4.39	- - - -	- 4.39
	Junction Box, Photoflash Cart. Eject., C-2		1	- - -	3.90	3.65	- .25	- - - -	- .25
	Memory Delay Unit, Photo Flash Cart. Release, A-2		1	- - -	2.00	3.90	+ 1.90	- - - -	+ 1.90
	Mounting Base, Vibration Insulation, A-1		2	- - -	10.60	13.82	+ 3.22	- - - -	+ 3.22
	Synchronizer-Marker Unit, C-1		1	- - -	15.30	18.10	+ 2.80	- - - -	+ 2.80
	Amplifier		3	22.80	- - -	- - -	- - -	- - - -	- - - -
	Intervalometer, B-9A		2	17.00	- - -	- - -	- - -	- 11.00	+11.00
	Filter, Radio Noise		2	1.00	- - -	- - -	- - -	- .02	+ .02
	Control Head, Type C-4	1742M	3	12.00	- - -	- - -	- - -	- 3.18	+ 3.18
	Control - Interval Memory Delay Unit D-5	2284M	1	- - -	6.23	6.23	- - -	- - - -	- - - -

PREP BY L. Hile
CHKD BY L. Denny
DATE 9-30-54

BOEING AIRPLANE COMPANY
WICHITA DIVISION
GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT
CONTRACT NO

DESCRIPTION	CHANGE REF: CHANGE NUMBER	CHANGE REF: ITEM OR PHASE	CHANGE REF: B A C PROD AIRPL NO	WEIGHT EMPTY: WEIGHT	WEIGHT EMPTY: ARM	WEIGHT EMPTY: MOMENT	WING	HORIZONTAL TAIL	VERTICAL TAIL	BODY	MAIN LANDING GEAR	AUXILIARY LANDING GEAR	SURFACE CONTROLS	ENG. SECTION OR NACELLE INBD.	ENG. SECTION OR NACELLE OUTB.	ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR INDUCTION	EXHAUST SYSTEM
ORIGINAL SPECIFICATION WEIGHT EMPTY				81,881																
SPECIFICATION CHANGES ACCUMULATED THRU LAST REPORT WD-10383				+ 826																
SPECIFICATION WEIGHT EMPTY AF52-755			123	82,707			16375	1606	960	13243	7183	1108	1868	3395	903	16062	121			30
ADD SPECIFICATION CHANGES SINCE LAST REPORT AFFECTING AF52-790																				
REV. FLAP ACTUATING SYSTEM	3577		150&ON	0																
ADDITIONAL LATCHING PROV.- ELECT. ACCESS DOORS	3631		150&ON	+ 7						+ 7										
RELOCATE AN/ARN-6 RADIO COMPASS LOOP & SENSE ANTENNA	619-2M		158&ON	+ 23						+ 4			+ 1							
FUEL QUANTITY GAUGING SYSTEM REV.	702 1M		158&ON	+ 29																
THERMAL ANTI-ICING DUCT REV.	950-21M		158&ON	- 97						+ 6										
CHANGE FWD. AUX. TANK TO NON-SELF SEALING CONSTRUCTION	950-22M		158&ON	- 313																
BOOST PUMP- CIRCUIT BREAKER & WIRE REV.	1003 1M		150&ON	- 3																
CHANGE AIRPLANE LOW TENSION WIRE	1065M		150&ON	- 5																
DEL. PHANTOM TARGET INSTL.	1521-1M		150&ON	-																
FWD. AUX. TANK DEFUEL PLUMBING REV.	1526M		158&ON	- 15																
3-PHASE INVERTER REV. - K-SYSTEM & INSTR.	1667M		153&ON	+ 23																
INSTL. UNIVERSAL CAMERA CONTROL SYSTEM	1742M		136&ON	+ 232																
INSTL. ARC-21 RADIO SET	1851 8M		97&ON	+ 32																
DEL. INSTL. PROV. FOR A-10 CAMERA	1915 1M		132&ON	- 1																
DEL. VORTEX GENERATORS DEICING PROV.	1943M		132&ON	- 26																
REACTIVATE AIR MOISTURE SEPARATOR & COOLING UNIT TEMP CONTROL	2151M		150&ON	+ 12																
DEL. SHOCKMTS. FOR RT-124/APS-23 REC.-TRANS.	2216-1M		137&ON	- 1																
REV. UNIVERSAL CAMERA CONTROL SYSTEM	2284M		136&ON	- 2																
ADD TYPE E-1 AMP. TO UCCS	2284-1M		136&ON	+ 2																
MISC. SPEC. REV.				0																
REMOVE SPECIFICATION CHANGES EFFECTIVE ON AF52-755 BUT NOT ON AF52-790																				
REPLACE A-18 WITH LA-12 MAG. & HI WITH LA-13 AMP.	1962M		53-135	- 1																
SPECIFICATION WEIGHT EMPTY AF52-790				82,651			16375	1606	960	13260	7183	1108	1869	3395	903	16062	121			3

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BOEING AIRPLANE COMPANY
WICHITA DIVISION

ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR INDUCTION	EXHAUST SYSTEM	COOLING SYSTEM	LUBRICATING SYSTEM	FUEL SYSTEM	WATER INJECTION	ENGINE CONTROLS	STARTING SYSTEM	PROPELLERS OR AFTERBURNERS	AUX POWER PLANT	INSTRUMENTS & NAV EQUIP	HYDRAULIC & PNEUMATIC	ELECTRICAL	ELECTRONICS	ARMAMENT	ACCOMM FOR PERSONNEL	MISC EQUIPMENT	FURNISHINGS	EMERGENCY EQUIPMENT	AIR CONDITIONING	ANTI-ICING	PHOTOGRAPHIC EQUIPMENT	AUXILIARY GEAR	
16062	121			309		310	5402	635	101				545	423	3667	2928	1276	648	296	16	128	470	1156	1180	393	
															+ 1	+ 17										
													28		+ 1											
							- 4								+ 4								- 103			
							- 313																			
															- 3											
															- 5											
																- 1										
							- 15								- 1											
													15		+ 3	+ 35										
															- 50									+ 332		
																+ 32										
															- 1											
															- 26											
																						+ 12				
																- 1										
																								- 2		
																								+ 2		
															- 60		+ 60									
																								- 1		
3 16062	121			309		310	5070	635	101				558	423	3530	3010	1336	648	296	16	128	482	1053	1511	393	

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SPEC. WEIGHT CHANGE RECORD
WEIGHT EMPTY

MODEL	RB-47E
REPORT	WD-10387
PREP.	L. DENNY
CH'K'D	L. HILE
PAGE	39 OF 103

DESCRIPTION	CHANGE REF: CHANGE NUMBER	CHANGE REF: ITEM OR PHASE	B A C PROD AIRPL NO	WEIGHT EMPTY: AF	WEIGHT EMPTY: ARM	WEIGHT EMPTY: MOMENT	WING	HORIZONTAL TAIL	VERTICAL TAIL	BODY	MAIN LANDING GEAR	AUXILIARY LANDING GEAR	SURFACE CONTROLS	ENG SECTION OR NACELLE INBD	ENG. SECTION OR NACELLE OUTB.	ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR
SPECIFICATION WEIGHT EMPTY AF52-790			158	82651			16375	1606	960	13260	7183	1108	1869	3395	903	16062	121		
GFAE OVER AND/OR UNDER WEIGHT				- 416							- 312	+ 6				- 185			
ADJUSTED SPECIFICATION WEIGHT EMPTY				82235			16375	1606	960	13260	6871	1114	1869	3395	903	15877	121		
ACTUAL WEIGHT EMPTY AF52-790				82194			16487	1549	935	13395	6818	1078	1948	3358	889	15877	121		
BAC OVER AND/OR UNDER WEIGHT				- 41			+ 112	- 57	- 25	+ 135	53	+ 36	+ 79	- 37	- 14				
UNDER WEIGHT OF PREVIOUSLY REPORTED AIRPLANE				- 215															
UNDER WEIGHT DECREASE SUBSEQUENT TO PREVIOUSLY REPORTED AIRPLANE				174															

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E-1177

BOEING AIRPLANE COMPANY
WICHITA DIVISION

	ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR INDUCTION	EXHAUST SYSTEM	COOLING SYSTEM	LUBRICATING SYSTEM	FUEL SYSTEM	WATER INJECTION	ENGINE CONTROLS	STARTING SYSTEM	PROPELLERS OR AFTERBURNERS	AUX POWER PLANT	INSTRUMENTS & NAV EQUIP	HYDRAULIC & PNEUMATIC	ELECTRICAL	ELECTRONICS	ARMAMENT	ACCOMM FOR PERSONNEL	MISC EQUIPMENT	FURNISHINGS	EMERGENCY EQUIPMENT	AIR CONDITIONING	ANTI-ICING	PHOTOGRAPHIC EQUIPMENT	AUXILIARY GEAR
	16062	121			309.		310.	5070.	635.	101.				558.	423.	3530.	3010.	1336.	648.	296.	16.	128.	482.	1053.	1511.	393.
	185.				+ 1.				+ 8.					+ 4.			- 39.	+ 77.	+ 3.			- 9.			+ 30.	
	15877	121			310.		310.	5070.	643.	101.				562.	423.	3530.	2971.	1413.	651.	296.	16.	119.	482.	1053.	1541.	393.
	15877	121			299.		303.	5129.	633.	100.				507.	369.	3527.	2950.	1406.	585.	321.	17.	131.	457.	1075.	1526.	374.
					11.		- 7.	+ 59.	- 10.	- 1.				- 55.	- 54.	- 3.	- 21.	- 7.	- 66.	+ 25.	+ 1.	+ 12.	- 25.	+ 22.	- 15.	- 19.

SPEC WEIGHT
CHANGE RECORD
WEIGHT EMPTY

MODEL RB-47E
REPORT WD-10387
PREP L.DENNY
CHKD L.HILE
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GROSS WEIGHT CONDITION 198,000 LBS MAXIMUM PERMISSABLE FLIGHT GROSS WEIGHT WITHOUT EXTERNAL TANKS

A.F. SERIAL NO. AF52-790

MODEL RB-47E

SPE

DESCRIPTION	CHANGE NO.	USAF NO.	WEIGHT	MOMENT	NON-EXPENDABLE USEFUL L											
					CREW 3	NAV. EQUIP	OXYGEN BOTTLES	UNAVAIL-ABLE FUEL	SURVIVAL KITS	SWAY BRACES RELEASE HOOK & WRENCH	WALKWAY 2	I. F. C. EQUIP.	BOMB ARMING CONTROL	H-1 EQUIP.	ATO SHROUD & PANELS	
SPECIFICATION WEIGHT USEFUL LOAD (UNIT 123)		52-755	3956		690	20	137	533	54							
REMOVE CHANGES EFFECTIVE ON UNIT 123 BUT NOT ON UNIT 158																
NONE																
ADD CHANGES EFFECTIVE ON UNIT 158 BUT NOT ON UNIT 123																
INSTL UNIVERSAL CAMERA CONTROL SYSTEM	1742 M		+ 12													
SPECIFICATION WEIGHT USEFUL LOAD (UNIT 158)			3968		690	20	137	533	54							
GEAE OVER AND/OR UNDER WEIGHT			+ 16													
ADJUSTED SPECIFICATION WEIGHT USEFUL LOAD			3984		690	20	137	533	54							
ACTUAL (OR CALCULATED) USEFUL LOAD			3988		690	24	138	534	54							
DIFFERENCE BETWEEN ADJUSTED SPEC. & ACTUAL USEFUL LOAD			+ 4			+ 4	+ 1	+ 1								

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SPECIFICATION USEFUL LOAD

LESS FUEL

EXPENDABLE USEFUL LOAD												EXPENDABLE USEFUL LOAD							
AY	I. F. C. EQUIP.	BOMB ARMING CONTROL	H-1 EQUIP.	ATO SHROUD & PANELS	ATO RACKS	ATO BOTTLES	SPARE AMPS	PHOTO EQUIP	GUNS CHARGER & HEATERS	SHACKLE & RELEASE	BALLAST	OIL	BOMBS	OXYGEN	PURGING DRY ICE	AMMO	CHAFF	ATO RACK	ATO BOTTLES
							29	690	225			195		21	83	434	845		
								+ 12											
							29	702	225			195		21	83	434	845		
								+ 13	+ 3										
							29	715	228			195		21	83	434	845		
							31	712	228			195		20	83	434	845		
							+ 2	- 3						- 1					

MODEL	RB-47E
REPORT	WD-10387
PREP.	L. DENNY
CH'K'D	L. HILE
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DESCRIPTION	CHANGE REF: CHANGE NUMBER	CHANGE REF: ITEM OR PHASE	PAC PROD AIRPL NO	WEIGHT EMPTY: WEIGHT	WEIGHT EMPTY: ARM	WEIGHT EMPTY: MOMENT	WING	HORIZONTAL TAIL	VERTICAL TAIL	BODY	MAIN LANDING GEAR	AUXILIARY LANDING GEAR	SURFACE CONTROLS	ENG SECTION OR NACELLE INBD	ENG SECTION OR NACELLE OUTB	ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR INDUCTION	EXHAUST
ACTUAL WEIGHT EMPTY AF52-755 (REF. WD-10383)			123	82,176		49,316,588	16407	1549	935	13288	6915	1078	1945	3357	889	15953	121			
APPLY THE FOLLOWING CHANGES TO OBTAIN THE WEIGHT EMPTY OF AF52-790			158																	
ADD SPECIFICATION CHANGES SINCE LAST REPORT AFFECTING AF52-790																				
REV. FLAP ACTUATING SYSTEM	3577		150&ON	+ 1		+ 621							+ 1							
ADDITIONAL LATCHING PROV. ELECTRICAL ACCESS DOORS	3631		150&ON	+ 7		+ 998				+										
RELOCATE ARN-6 RADIO COMPASS SENSE & LOOP ANTENNA	6.9 2M		158&ON	+ 25		+ 9,029				+ 12			+ 1							
FUEL QUANTITY GAUGING SYSTEM REV.	702 M		158&ON	- 9		+ 10,198														
THERMAL ANTI-ICING SYSTEM DUCT REV	950 2M		158&ON	- 97		+ 85,355				+ 6										
CHANGE FWD. AUX TANK TO NON SELF-SEALING CONSTRUCTION	95 2M		158&ON	- 249		- 105,782														
BOOST PUMP-CIRCUIT BREAKER & WIRE REV	1003 M		150&ON	+ 3		+ 1,710														
CHANGE AIRPLANE LOW TENSION WIRE	1065M		150&ON	- 5		- 3,000														
DEL. PHANTOM TARGET INSTL.	1E 1M		158&ON	+ 1		+ 273														
FWD. AUX. TANK DEFUEL PLUMBING REV.	1E 8M		158&ON	+ 2		+ 6,345														
3-PHASE INVERTER REV.- K SYSTEM & INSTR.	1667M		158&ON	+ 14		+ 4,028														
INSTL. UNIVERSAL CAMERA CONTROL SYSTEM	1742M		136&ON	+ 335		+ 236,183														
INSTL. ARC-21 RADIO SET	1851 8M		97&ON	+ 29		+ 5,932														
DEL. INSTL. PROV. FOR A-10 MOTION PICTURE CAM.	1915-1M		132&ON	- 1		- 78														
DEL. VORTEX GENERATORS DEICING PROV.	1943M		132&ON	- 36		- 23,980														
REACTIVATE AIR MOISTURE SEPARATOR & COOLING UNIT TEMP. CONTROL	215 1M		150&ON	+ 12		+ 3,486														
DEL. SHOCKMTS. FOR RT-124/APS-23 REC.TRANS.	216 1M		137&ON	- 1		- 197														
REV. UNIVERSAL CAMERA CONTROL SYSTEM	2284M		136&ON	- 16		- 9,598														
ADD TYPE E-1 AMPLIFIER TO UCCS	2284 1M		136&ON	+ 2		+ 1,236														
REMOVE CONT. & SPEC. CHANGES EFFECTIVE ON AF52-755 BUT NOT ON AF52-790																				
REDESIGN SHROUD FOR ANTI ICING DUCT-STA 742	2171B		88-157	- 13		- 9,646														
REPLACE A-18 WITH A-12 MAG & H-1 WITH LA-13 AMP	1962M		53-135	- 1		- 310														
TOTALS CARRIED FORWARD				82,005		49,345,725	16407	1549	935	13313	6915	1078	1945	3357	889	15953	121			

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E-1177

BOEING AIRPLANE COMPANY
WICHITA DIVISION

NACELLE OUTB.	ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR INDUCTION	EXHAUST SYSTEM	COOLING SYSTEM	LUBRICATING SYSTEM	FUEL SYSTEM	WATER INJECTION	ENGINE CONTROLS	STARTING SYSTEM	PROPELLERS OR AFTERBURNERS	AUX POWER PLANT	INSTRUMENTS & NAV EQUIP	HYDRAULIC & PNEUMATIC	ELECTRICAL	ELECTRONICS	ARMAMENT	ACCOMM FOR PERSONNEL	MISC EQUIPMENT	FURNISHINGS	EMERGENCY EQUIPMENT	AIR CONDITIONING	ANTI-ICING	PHOTOGRAPHIC EQUIPMENT	AUXILIARY GEAR	
9	15953	121			299		303	5429	633	100				499	369	3612	2876	1406	585	321	17	131	445	1185	1155	374	
																	+ 14										
								- 4						+ 26		+ 3								- 103			
								- 39								+ 4											
																- 3											
																- 5											
																	- 1										
								- 13								+ 1											
														- 18		+ 2	+ 30								+ 385		
																- 50											
																	+ 29										
																- 1											
																- 36											
																					+ 12						
																		- 1									
																- 1									- 15		
																									+ 2		
																								- 13			
																								- 1			
9	15953	121			299		303	5063	633	100				507	369	3526	2947	1406	585	321	17	131	457	1069	1526	374	

ACTUAL WEIGHT
CHANGE RECORD
WEIGHT EMPTY

MODEL RB-47E
REPORT WD-10387

PREP L. DENNY
CH'K'D L. HILE

DESCRIPTION	CHANGE REF: CHANGE NUMBER	CHANGE REF: ITEM OR PHASE	CHANGE REF: B & C PROD AIRPL NO	WEIGHT EMPTY: WEIGHT	WEIGHT EMPTY: ARM	WEIGHT EMPTY: MOMENT	WING	HORIZONTAL TAIL	VERTICAL TAIL	BODY	MAIN LANDING GEAR	AUXILIARY LANDING GEAR	SURFACE CONTROLS	ENG SECTION OR NACELLE INBD	ENG SECTION OR NACELLE OUTB	ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR INDUCTION	EXHAUST
TOTALS BROUGHT FORWARD				82,095.	49,345,725.	16407.	1549.	935.	13313	6915.	1078.	1945.	3357.	8891	5953.	121.			2.
ADD CONTRACTOR CHANGES EFFECTIVE ON AF52-790 BUT NOT ON AF52-755																				
ADD FUEL BOOST PUMP NOISE FILTERS - FWD. AUX. TANK	1477-8B		158 & ON	+ 3.	+ 895.															
ADD SPLINED JOINTS IN FLAP ACTUATION SYS	1669B		150 & ON	+ 3.	+ 1629.								+ 3.							
REV. SEALING USED FOR GAP FILLING	1941B		150 & ON	+ 3.	+ 857.					+ 3.										
REV. WEB ON OUTBD. NACELLE AIR DUCT	2115B		132 & ON	+ 1.	+ 785.															
REPLACE STRAIGHT PLUGS WITH RIGHT ANGLE AT MISC. LOCATIONS	2121E		132 & ON	+ 1	+ 300.															
REDESIGN SHROUD FOR ANTI-ICING DUCT STA. 742	2171B		158 & ON	+ 2	+ 1,484.															
REV. NAC. HINGE PINS & PROV. FOR OUTBD COWL ADJUST PROCEDURE	2214B		132 & ON	+ 1.	+ 502.									+	1.					
REV. ANTI-ICING DUCT SHROUD STA. 425	2234B		158 & ON	+ 3	+ 1,275.															
CAMERA WELL ACCESS DOOR COUNTER BALANCE ASSY. REV.	2417B			+ 2	+ 1,142.					+ 2										
VARIATIONS IN ACTUAL WEIGHT OF EQUIP																				
GFAE																				
ENGINES				- 76	- 47,338											- 76.				
WHEELS, TIRES, TUBES & BRAKES				- 67	- 36,805						- 67.									
CFE																				
FUEL CELLS				+ 66	+ 39,558															
CALCULATED WEIGHT EMPTY				82,087	49,310,009	16407	1549.	935.	13318.	6848	1078.	1948.	3358.	8891	5877.	121.				
MANUFACTURING VARIATION				+ 137.	+ 41,369	+ 80.			+ 77											
ACTUAL WEIGHT EMPTY				82,194	49,351,378	16487	1549.	935.	13395	6848	1078.	1948.	3358.	8891	5877.	121.				

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BOEING AIRPLANE COMPANY
WICHITA DIVISION

ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR INDUCTION	EXHAUST SYSTEM	COOLING SYSTEM	LUBRICATING SYSTEM	FUEL SYSTEM	WATER INJECTION	ENGINE CONTROLS	STARTING SYSTEM	PROPELLERS OR AFTERBURNERS	AUX POWER PLANT	INSTRUMENTS & NAV EQUIP	HYDRAULIC & PNEUMATIC	ELECTRICAL	ELECTRONICS	ARMAMENT	ACCOMM FOR PERSONNEL	MISC EQUIPMENT	FURNISHINGS	EMERGENCY EQUIPMENT	AIR CONDITIONING	ANTI-ICING	PHOTOGRAPHIC EQUIPMENT	AUXILIARY GEAR
5953.	121.			299.		303.	5063.	633.	100.				507.	369.	3526.	2947.	1406.	585.	321.	17.	131.	457.	1069.	1526.	374.
																3.									
															1.								1.		
																							2.		
																							3.		
76.																									
						+ 66.																			
15877.	121.			299.		303.	5129.	633.	100.				507.	369.	3527.	2950.	1406.	585.	321.	17.	131.	457.	1075.	1526.	374.
15877.	121.			299.		303.	5129.	633.	100.				507.	369.	3527.	2950.	1406.	585.	321.	17.	131.	457.	1075.	1526.	374.

ACTUAL WEIGHT
CHANGE RECORD
WEIGHT EMPTY

MODEL	RB-47E
REPORT	WL-10387
PREP	L. DENNY
CHK'D	L. HILL
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CHART A - BASIC WEIGHT CHECK LIST

PAGE 1 OF 32 PAGES | AIRPLANE MODEL: RB-47E | SERIAL NUMBER: AF52-790 | DELIVERY DATE: 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT / 1000 1/	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	1 CHART C ENTRY	2 IN AIRPLANE	2 CHART C ENTRY	3 IN AIRPLANE	3 CHART C ENTRY	4 IN AIRPLANE	4 CHART C ENTRY	5 IN AIRPLANE	5 CHART C ENTRY	6 IN AIRPLANE	6 CHART C ENTRY	7 IN AIRPLANE	7 CHART C ENTRY	8 IN AIRPLANE	8 CHART C ENTRY
	Nose Section (Nose - Sta. 145)																					
A-1	Mount Assy. - Camera	5-45485	7	21	.1	O																
A-2	Camera K-17C	(6" Lens Cone)	29	25	.7	O																
A-3	Mount Assy. - Camera	5-45485	7	27	.2	O																
A-4	Magazine Type A9B	(Empty)	21	30	.6	O																
A-5	Camera K-17C	(12" Lens Cone)	31	31	1.0	O																
A-6	Camera K-22A	(12" Lens Cone)	28	32	.9	O																
A-7	Mount Assy. - Camera	5-45297	9	32	.3	O																
A-8	Magazine Type A9B	(Empty)	21	36	.8	O																
A-9	Platform Assy. - Camera	5-45483-1	14	38	.5	X																
A-10	Magazine Type A9B	(Empty)	21	39	.8	O																
A-11	Camera K-22A	(24" Lens Cone)	44	41	1.8	O																
A-11a	Camera K-38	(24" Lens Cone)	54	41	2.2	X																
A-12	Mount Assy. - Camera	5-45297	9	41	.4	X																
A-13	Camera K-38	(36" Lens Cone)	61	44	2.7	O																
A-14	Mount Assy. - Camera	5-45297	9	44	.4	O																
A-15	Magazine Type A9B	(Empty)	21	53	1.1	O																
A-16	Magazine Type A8B	(Empty)	28	54	1.5	X																
A-17	Magazine Type A8B	(Empty)	28	56	1.6	O																
A-18	Junction Box	J-219 /APS-23	6	67	.4	X																
A-19	View Finder	10-1224-501	98	72	7.1	X																
A-20	Magazine Type C-1A		4	78	.3	X																
A-21	Indicator	ID-218 /APS-23	21	81	1.7	O																

1/ Enter constant used below line.

DD FORM 1 AUG 50 365A

Chart Date 7-1-54

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 2 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	1/ MOMENT / 1000	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	CHECK 1 CHART C ENTRY	CHECK 2 IN AIRPLANE	CHECK 2 CHART C ENTRY	CHECK 3 IN AIRPLANE	CHECK 3 CHART C ENTRY	CHECK 4 IN AIRPLANE	CHECK 4 CHART C ENTRY	CHECK 5 IN AIRPLANE	CHECK 5 CHART C ENTRY	CHECK 6 IN AIRPLANE	CHECK 6 CHART C ENTRY	CHECK 7 IN AIRPLANE	CHECK 7 CHART C ENTRY	CHECK 8 IN AIRPLANE	CHECK 8 CHART C ENTRY
	Nose Section (Nose - Sta. 145)																				
A-21a	Indicator IP-135A/APA-82	23	81	1.9	X																
A-22	Mounting MT-546 /APS-23	8	81	.6	X																
A-23	Camera Type C-1	8	83	.7	X																
A-24	Tracking Control A-2 C-34042A	4	84	.3	X																
A-25	Control - Primary Type B-1 C-34043	7	85	.6	X																
A-26	Indicator - Range Azimuth IP-30 /APS-31	13	86	1.1	O																
A-27	Control - Nav. Computer D-2 C-34045	25	87	2.2	X																
A-28	Camera Attachment MX-754 /APS-23	6	89	.5	O																
A-28a	Camera Attachment MX-1159 /APA-82	5	89	.4	X																
A-29	Table Assy. - Nav. B-6063	10	91	.9	X																
A-30	Controller A-12D 10-1075-503 AFCE	4	92	.4	X																
A-31	Control L-6 MIL-C7567 UCCS	5	92	.5	X																
A-32	Control Unit C-413 /APS-23	12	94	1.1	X																
A-33	Control - Polar Nav. F-1 C-34090	17	106	1.8	X																
A-34	Intervalometer B-10A MIL-I-5323A	9	106	1.0	O																
A-35	Control - Intervalometer F-2 UCCS	5	106	.5	X																
A-36	Control - Intervalometer F-3 UCCS	6	106	.6	X																
A-37	Seat - Nav. Ejection (Incl. Belt & Harness)	46	116	5.3	X																
A-38	Survival Kit (Life Raft - Seat Type)	18	116	2.1	O																
A-39	Cushion - Nav. (Back) ID6574	5	116	.6	X																
A-40	Cushion - Nav. (Bottom) 6-[illegible]326	5	116	.6	X																
A-41	Control Box, P-8 Camera MIL-C-6212	11	117	1.3	O																

1/ Enter constant used below line.

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Chart Date - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 3 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1?-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	1/ MOMENT / 1000	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
						IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Nose Section (Nose - Sta. 145)																				
A-41a	Control LD-6 MIL-C-8329	8	117	.9	X																
A-42	Control - Ballistics Computer C-34044	18	118	2.1	X																
A-43	Navigators Kit Type A-6	24	120	2.9	O																
A-44	Catapult - Nav. (Charged) Type M-3	9	125	1.1	X																
A-44a	Catapult - Nav. Dummy 1002-9036	6	125	.8	O																
A-45	Transmitter - True Heading C-34059	18	132	2.4	X																
A-46	Computer Amplifier A-2 C-34049	80	136	10.9	X																
A-47	Power Supply PP-353 /APQ-31	18	139	2.5	O																
A-48	Relay - Inverter Change Over Type B-1 (2)	9	140	1.3	X																
A-49	Azimuth Computer CP-53 /APQ-31	22	141	3.1	X																
A-50	Synchronizer SN-47 /APS-23	42	142	6.0	X																
A-51	Stabilizer - Bombsight C-34060	116	143	16.6	X																
A-52	Receiver - Glide Path R-322 /APN-18	13	144	1.9	X																
A-53	Synchronizer SN-57 /APQ-31	31	144	4.5	X																
A-54	Amplifier - Interphone AM-300 /AIC	6	144	.9	O																
A-55	Dynamotor DY-76 /AIC-10	9	144	1.3	O																
A-55a	Dynamotor DY-77 /AIC-10	4	144	.6	X																

1/ Enter constant used below line.

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Chart Data - See Chart 4.1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 4 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1	CHECK 2	CHECK 3	CHECK 4	CHECK 5	CHECK 6	CHECK 7	CHECK 8
						IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY
	Pilot's Compt. (Sta. 145-326)												
	PRESSURIZED CABIN												
B-1	Rack Assy. - Spare Amplifiers 4-2966-2	2	145	.3	X								
B-2	Spare Amplifiers (16)	31	145	4.5	O								
B-3	Filter F-57 /APS-23	8	152	1.2	X								
B-4	Dynamotor DY-77 /AIC-10	4	152	.6	X								
B-5	Amplifier - Stab. Type B-1 C-34050	65	156	10.1	X								
B-6	Junction Box J-218 /APS-23	13	158	2.1	O								
B-6a	Junction Box J-438 /APS-23	16	158	2.5	X								
B-7	Chemical Toilet 10-1091-1	9	163	1.5	O								
B-8	Oxygen Cylinder F-1 (Charged)	11	165	1.8	X								
B-9	Oxygen Cylinder G-1 (Charged)	21	165	3.5	O								
B-10	Rectifier - Power Unit PP-259 /APS-23	28	165	4.6	X								
B-11	Portable Oxygen Cylinder Type MA-1	6	173	1.0	X								
B-12	Amplifier - Two Channel 10-1075-3 AFCE	12	174	2.1	X								
B-13	Portable Oxygen Cylinder Type A-1	5	176	.9	O								
B-14	Pedestal Controller 10-1075-4 AFCE	5	178	.9	X								
B-15	Relay Box 10-1075-19 AFCE	4	179	.7	X								
B-16	Gyro - Vertical 10-1075 AFCE	7	181	1.3	X								
B-17	Amplifier - Six Channel 10-1075 AFCE	36	188	6.8	X								
B-18	Servo - Control 10-1075-11 AFCE	16	190	3.0	X								
B-19	Anti-Exposure Suit MIL-S-5808A	4	199	.8	O								
B-20	Slaving Control 15150-0	4	200	.8	X								

1/ Enter constant used

Chart Date - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 5 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40
RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	CHART C ENTRY	2 IN AIRPLANE	CHART C ENTRY	3 IN AIRPLANE	CHART C ENTRY	4 IN AIRPLANE	CHART C ENTRY	5 IN AIRPLANE	CHART C ENTRY	6 IN AIRPLANE	CHART C ENTRY	7 IN AIRPLANE	CHART C ENTRY	8 IN AIRPLANE	CHART C ENTRY
	Pilot's Compt. (Sta. 145-326)																				
	PRESSURIZED CABIN (Cont'd.)																				
B-21	Control - Vertical Gyro 21334	12	203	2.4	X																
B-22	Fire Extinguisher A-20 MIL-E-5220	8	203	1.6	X																
B-23	Seat - Pilot Eject. (Incl. Belt & Harness)	84	203	17.1	O																
B-23a	Seat - Pilot (Incl. Belt & Harness) Webber	75	203	15.2	X																
B-24	Survival Kit (Life Raft - Seat Type)	18	203	3.7	O																
B-25	Cushion - Pilot's (Back) 9-22811-501	5	203	1.0	O																
B-26	Cushion & Pad - Pilots (Bottom) 9-47707	5	203	1.0	X																
B-27	Relay - Inverter Change Over Type B-1	5	203	1.0	X																
B-28	Amplifier N-1 Compass 16000-0	23	203	4.7	X																
B-29	Oxygen Cylinder G-1 (Charged)	21	207	4.3	X																
B-30	Catapult - Pilot's (Charged) T5-E1	25	212	5.3	X																
B-30a	Catapult - Pilot's Dummy SN214667	6	212	1.3	O																
B-31	Kit - Blood Plasma 47B12221	7	220	1.5	O																
B-32	Oper. Inst. (Stow in Pilot's Data Case)	10	233	2.3	X																
B-33	Thermos Bottle 40928 (2)	10	238	2.4	X																
B-34	Relay - Inverter Change Over Type B-1 (2)	9	244	2.2	X																
B-35	Periscopic Sextant & Stowage Box	20	245	4.9	X																
B-36	Radio Control Set C-626 /ARC-27	9	250	2.3	X																
B-37	Canopy Lock F-65178 (Stowed) (2)	5	254	1.3	X																
B-38	Seat - Co-Pilot Eject. (Incl. Belt & Harness)	98	264	25.9	O																

1/ Enter constant used below line.

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Chart Data - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 6 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-18-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	1 CHART C ENTRY	2 IN AIRPLANE	2 CHART C ENTRY	3 IN AIRPLANE	3 CHART C ENTRY	4 IN AIRPLANE	4 CHART C ENTRY	5 IN AIRPLANE	5 CHART C ENTRY	6 IN AIRPLANE	6 CHART C ENTRY	7 IN AIRPLANE	7 CHART C ENTRY	8 IN AIRPLANE	8 CHART C ENTRY
	Pilot's Compt. (Sta. 145-326)																				
	PRESSURIZED CABIN (Cont'd.)																				
B-38a	Seat - Co-Pilot (Incl. Belt & Harness) Webber	80	264	21.1	X																
B-39	Survival Kit (Life Raft - Seat Type)	18	264	4.8	O																
B-40	Cushion - Co-Pilot's (Back) ID6574	5	264	1.3	O																
B-41	Cushion & Pad - Co-Pilot (Bottom) 9-47707	5	264	1.3	X																
B-42	Kit - Battle Dressing 48B3500	12	267	3.2	O																
B-43	Portable Oxygen Cylinder Type A-1	5	268	1.3	O																
B-43a	Portable Oxygen Cylinder Type MA-1	6	268	1.6	X																
B-44	Catapult - Co-Pilot's (Charged) T5B4	25	275	6.9	X																
B-44a	Catapult - Co-Pilot's Dummy SN21-557	6	275	1.7	O																
B-45	Control - Radio Set C-451 /ARC-21	5	279	1.4	O																
B-46	Inverter - Spare AN3533-1	24	283	6.8	O																
B-46a	Inverter - Main 3 Phase AN3534-1	33	283	9.3	X																
B-47	Anti-Exposure Suit MIL-S-5808A (2)	8	284	2.3	O																
B-48	Antenna Hand Control C-636 /APS-32 A-5 Sys.	4	290	1.2	X																
B-49	Power Unit - Flowmeter 10-1611-2	5	294	1.5	X																
B-50	Amplifier - Compass Signal Type C-1	12	297	3.6	X																
B-51	Control Panel 519E772G1 A-5 Sys.	11	298	3.3	X																
B-52	Loop Antenna AS-313 /ARN-6	14	300	4.2	O																
B-53	Indicator & Control IP-47 /APG-32 A-5 Sys.	20	302	6.0	X																
B-54	Amplifier AM-924 /APS-54	12	303	3.6	O																

1/ Enter constant used below line.

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Chart Note - See Sheet 1

CHART A - BASIC WEIGHT CHECK LIST

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FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
							IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLAYE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Pilot's Compt. (Sta. 145-326)																					
	PRESSURIZED CABIN (Cont'd.)																					
E-55	Transmitter - Type A-1	C-21958	12	296	3.7	X																
E-56	Directional Gyro - N-1	15810-D	24	308	7.4	X																
E-57	Antenna Coupler - Auto.	10-1446-501	27	308	8.3	X																
E-58	Data Case - Co-Pilots	5-42704-1	5	312	1.6	O																
E-59	Data Case - Co-Pilot's	5-37750	2	312	.6	X																
E-60	Oper. Instructions (Stow in Data Case)		8	312	2.5	X																

1/ Enter constant used below line.

Chart Date - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 8 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1	2	3	4	5	6	7	8
						IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY
	Pilot's Compt. (Sta. 145-326)												
	CRAWLWAY												
B-60	Air Bottle - Spoiler AN6025AA-147	7	214	1.5	0								
B-61	Ladder - Main Entrance 5-32721-507	35	228	8.0	X								
B-62	Inverter - Three Phase AN3533-1	24	251	6.0	0								
B-63	Inverter - Spare 3 Phase AN3534-1	33	264	8.7	X								
B-64	Refrigeration Unit 10-819	43	276	11.9	0								
B-64a	Refrigeration Unit 10-819-507	51	276	14.1	X								
B-65	Air Bottle - Canopy Jett. AN6025AA147	7	312	2.2	X								
B-66	Cover - Canopy F30043 or F30169 (Stowed)	32	330	10.6	X								
B-67	Cover - ATO Exhaust F66008 (Stowed)	20	349	7.0	0								
B-68	Cover - Fwd. Wheel Well F66094 (Stowed)	17	362	6.2	X								
B-69	Cover - Aft. Wheel Well F65970 (Stowed)	19	362	6.9	X								
B-70	Control Panel 10-1488	10	384	3.8	X								
B-71	Voltage Regulator AVR 90	16	400	6.4	X								
B-72	Control Panel 10-1488	10	411	4.1	X								
B-73	Voltage Regulator AVR 90	16	419	6.7	X								

1/ Enter constant used below line.

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Chart Date - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 9 OF 32 PAGES | AIRPLANE MODEL: RB-47E | SERIAL NUMBER: AF52-790 | DELIVERY DATE: 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1/ / 1000	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	1 CHART C ENTRY	2 IN AIRPLANE	2 CHART C ENTRY	3 IN AIRPLANE	3 CHART C ENTRY	4 IN AIRPLANE	4 CHART C ENTRY	5 IN AIRPLANE	5 CHART C ENTRY	6 IN AIRPLANE	6 CHART C ENTRY	7 IN AIRPLANE	7 CHART C ENTRY	8 IN AIRPLANE	8 CHART C ENTRY
	P[illegible]'s Compt. (Sta. 145-326)																					
	RADOME																					
B-74	Ringing Cavity	RF-3 /AP	9	154	1.4	O																
B-75	Oxygen Cylinder C-1	(Charged) (2)	41	170	7.0	X																
B-76	Antenna	AS-[illegible]/APS-23	109	175	19.1	O																
B-76a	Antenna	AS-[illegible]C/APS-23	100	175	17.5	X																
B-77	Oxygen Cylinder F-1	(Charged)	11	191	2.1	X																
B-78	Receiver Transmitter	RT-12[illegible]B/APS-23	46	198	9.1	X																
B-79	Modulator	MD-152/APS-23	76	200	15.2	X																
B-80	Blower	MD-[illegible] /APS-23	3	205	.6	X																
B-81	Blower	MD-[illegible] /APS-23	3	208	.6	X																
	[illegible]																					
B-82	An[illegible]	AN/APN-76	7	243	1.7	X																
	[illegible] (In Dual Bank Door)																					
B-83	Loop Antenna	AS-313B/ARN-6	14	275	3.9	X																

1/ Enter constant used below line.

Chart Date - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

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FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	1/ MOMENT / 1000	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	CHECK 1 CHART C ENTRY	CHECK 2 IN AIRPLANE	CHECK 2 CHART C ENTRY	CHECK 3 IN AIRPLANE	CHECK 3 CHART C ENTRY	CHECK 4 IN AIRPLANE	CHECK 4 CHART C ENTRY	CHECK 5 IN AIRPLANE	CHECK 5 CHART C ENTRY	CHECK 6 IN AIRPLANE	CHECK 6 CHART C ENTRY	CHECK 7 IN AIRPLANE	CHECK 7 CHART C ENTRY	CHECK 8 IN AIRPLANE	CHECK 8 CHART C ENTRY
	Pilot's Compt. (Sta. 145-326)																				
	LOWER RADAR (WITHOUT PROJECT RELIABLE)																				
B-84	Servo Amplifier AM193 /APS-23	27	224	6.0	O																
B-85	Polar Converter Type A-1 C-34055	107	224	24.0	O																
B-86	Power Supply PP-352 /APQ-31	20	224	4.5	O																
B-87	Power Supply Type A-1 C-34056	32	228	7.3	O																
B-88	Power Supply Type A-1 C-34056	32	229	7.3	O																
B-89	Inverter - Main AN3534-1	33	274	9.0	O																
B-90	Inverter (Jack & Heintz) AN3516-1	52	277	14.4	O																
B-90a	Inverter (Royal Elect. Co.) AN3516-1	59	277	16.3	O																
B-90b	Inverter (Bendix) AN3516-1	59	277	16.3	O																
B-91	Computer - Tracking Type B-2 C-34048	165	278	45.9	O																
B-92	Mount - Computer Type B-1 C-34086	7	278	1.9	O																
B-93	Rectifier - Power Unit PP-259 /APS-23	32	278	8.9	O																
B-94	Computer - Bomb Release C-34047	73	279	20.4	O																

1/ Enter constant used below line.

Chart Date - [illegible]

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 11 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-18-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	1/ MOMENT / 1000	DELIVERY EQUIPMENT	CHECK 1	CHECK 2	CHECK 3	CHECK 4	CHECK 5	CHECK 6	CHECK 7	CHECK 8
							IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY
	Pilot's Compt. (Sta. 145-326)													
	UPPER RADAR (WITHOUT PROJECT RELIABLE)													
B-95	Radio Compass	R-101 /ARN-5	36	302	10.9	O								
B-96	Mount - Radio Compass	MT-274 /ARN-6	5	302	1.5	O								
B-97	Transmitter - Type A-1	C-34058	13	306	4.0	O								
B-98	Inverter (Jack & Heints)	AN3516-1 (2)	105	310	32.6	O								
B-98a	Inverter (Royal Elect. Co.)	AN3516-1 (2)	118	310	36.6	O								
B-99	Keyer - Emergency	KY-65 /APA-25	4	320	1.3	O								
B-100	Receiver Transmitter	RT-11 /ARN-12	40	320	12.8	O								
	LOWER FWD. RADAR (WITH PROJECT RELIABLE)													
B-101	Servo Amplifier	AM-193 /APS-23	27	224	6.0	X								
B-102	Power Supply Type A-1	C-34056	32	244	7.8	X								
B-103	Power Supply Type A-1	C-34056	32	257	8.2	X								
B-104	Inverter - Three Phase	AN-3534-1	33	278	9.2	X								

1/ Enter constant used below line.

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Chart Data - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 12 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)			WEIGHT	ARM	MOMENT 1/ / 1000	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	CHECK 1 CHART C ENTRY	CHECK 2 IN AIRPLANE	CHECK 2 CHART C ENTRY	CHECK 3 IN AIRPLANE	CHECK 3 CHART C ENTRY	CHECK 4 IN AIRPLANE	CHECK 4 CHART C ENTRY	CHECK 5 IN AIRPLANE	CHECK 5 CHART C ENTRY	CHECK 6 IN AIRPLANE	CHECK 6 CHART C ENTRY	CHECK 7 IN AIRPLANE	CHECK 7 CHART C ENTRY	CHECK 8 IN AIRPLANE	CHECK 8 CHART C ENTRY
	Pilot's Compt. (Sta. 145-326)																						
	CENTER FWD. RADAR (WITH PROJECT RELIABLE)																						
B-105	Power Supply		PP-352 / APQ-31	20	217	4.3	X																
B-106	Computer - Bomb Release		C-34047	73	234	17.1	X																
B-107	Computer - Tracking	B-2	C-34048	165	255	42.1	X																
B-108	Polar Converter	A-1	C-34055	107	279	30.0	X																
	UPPER FWD. RADAR (WITH PROJECT RELIABLE)																						
B-109	Control Unit - Inverter		10-1501-1	22	230	5.1	X																
B-110	Inverter (Jack & Heintz)		AN3516-1	52	259	11.6	O																
B-110a	Inverter (Royal Elect. Co.)		AN3516-1	59	269	15.9	X																
B-110b	Inverter (Bendix)		AN3516-1	59	269	15.9	O																
B-110c	Inverter		53B5227	60	269	16.1	O																
B-111	Oxygen Cylinder	G-1	(Charged)	21	275	5.8	X																

1/ Enter constant used below line.

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Chart Date - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 13 OF 32 PAGES | AIRPLANE MODEL: RB-47E | SERIAL NUMBER: AF52-790 | DELIVERY DATE: 9-15-54

FOR USE IN AN 01-13-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	1/ MOMENT / 1000	DELIVERY EQUIPMENT	CHECK 1	CHECK 2	CHECK 3	CHECK 4	CHECK 5	CHECK 6	CHECK 7	CHECK 8
							IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY
	Pilot's Compt. (Sta. 145-326)													
	UPPER AFT RADAR (WITH PROJECT RELIABLE)													
B-112	Receiver Transmitter	RT-316 /APN		299		O								
B-113	Radio Compass	RT-101B/APN-6	36	300	10.8	X								
B-114	Mount - Radio Compass	MT-274 /APN-6	5	300	1.5	X								
B-115	Inverter (Jack & Heintz)	AN3515-1 (2)	105	310	32.5	O								
B-115a	Inverter (Royal Elect. Co.)	AN3516-1 (2)	118	310	36.6	X								
B-115b	Inverter	53B6227 (2)	120	310	37.2	O								
B-116	Adapter Keyer	MX-1394 /ARC-21	2	310	.6	O								
B-117	Keyer - Emergency	KY-65A/ARA-25	4	320	1.3	X								
B-118	Receiver Transmitter	RT-11 /ARN-12	40	321	12.8	X								
B-118a	Receiver Transmitter	RT-316 /APN		321		O								
	FORWARD WHEEL WELL													
B-119	Inverter (Jack & Heintz)	AN3516-1 (2)	105	294	30.9	O								
B-119a	Inverter (Royal Elect. Co.)	AN3516-1 (2)	114	294	33.7	O								
B-120	Inverter 10-1501	A-5 Sys.	54	294	15.9	X								
B-121	Inverter (Jack & Heintz)	AN3516-1	52	294	15.3	O								
B-121a	Inverter (Royal Elect. Co.)	AN3516-1	59	294	17.3	X								
B-121b	Inverter	53B6227	60	294	17.6	O								
B-122	Purging Container & Heater	10-1013-501	6	295	1.8	X								

1/ Enter constant used below line.

Chart Data - Sht. 1

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DD FORM 1 AUG 50 365A

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 14 OF 32 PAGES | AIRPLANE MODEL RB-47S | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-18-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
						IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Fwd. Landing Gear (Sta. 326-425)																				
C-1	Hydraulic Fluid (19.6 Gal. at 7 lb/Gal.) (Sight Gage Location: Sta. 416)	137	499	68.4	X																
	(For Items In Crawlway Of This Compartment, See B-66, B-67, B-68, B-69, B-70, B-71, B-72, & B-73)																				

1/ Enter constant used below line.

DD FORM 1 AUG 50 365A

Change Date - [illegible]

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 15 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1	CHECK 2	CHECK 3	CHECK 4	CHECK 5	CHECK 6	CHECK 7	CHECK 8
						IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY
	Flash Bomb & Fuel (Sta. 425-515)												
D-1	Release Assy. - Bomb Rack Type A-5 (10)	28	459	12.9	X								
D-2	Bomb Shackle Type B-11 (10)	31	459	14.2	X								

1/ Enter constant used below line.

Chart Date - See Sheet 1

DD FORM 1 AUG 50 365A

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 16 OF 32 PAGES | AIRPLANE MODEL: RB-47E | SERIAL NUMBER: AF52-790 | DELIVERY DATE: 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	1/ MOMENT / 1000	DELIVERY EQUIPMENT	CHECK 1	CHECK 2	CHECK 3	CHECK 4	CHECK 5	CHECK 6	CHECK 7	CHECK 8
						IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY
	Camera & Fuel (Sta. 515-742)												
E-1	Life Raft Assy. Mark IV (Located in Top of Fuselage R.H. Side)	45	624	28.1	O								
E-2	Antenna - Mast & Wire AN/ARC-21 (Fuselage to Fin)	8	647	5.2	X								
E-3	Servo Aileron 10-1075-8 AFCE	12	529	6.3	X								
E-4	Drum & Brkt. Assy. 10-1075-15 AFCE	5	529	2.6	X								
E-5	Camera K-38 (36" Lens Cone) (2)	122	539	65.8	X								
E-5a	Camera K-38 (24" Lens Cone) (2)	107	539	57.7	O								
E-5b	Camera K-37 (12" Lens Cone) (2)	112	539	60.4	O								
E-6	Magazine - Type A8B (Empty) (2)	56	539	30.2	X								
E-6a	Magazine - Type A-18 (Empty) (2)	121	539	65.2	O								
E-6b	Magazine - Type A-28 (Empty) (2)	107	539	58.8	O								
E-6c	Magazine - Type AA-12 (Empty) (2)	121	539	65.2	O								
E-7	Adapter Assy. K-28 5-47940 (2)	14	539	7.5	X								
E-7a	Adapter Assy. K-37 5-54152 (2)	9	539	4.9	O								
E-8	Control Unit 10-819-1	52	568	29.5	O								
E-9	Camera K-38 (36" Lens Cone)	51	573	35.0	X								
E-9a	Camera K-38 (24" Lens Cone)	54	573	30.9	O								
E-9b	Camera T-11 (Cartographic)	69	573	39.5	O								
E-9c	Camera K-37 (12" Lens Cone)	56	573	32.1	O								
E-9d	Camera K-22A (12" Lens Cone)	28	573	16.0	O								

1/ Enter constant used below line.

DD FORM 1 AUG 50 365A

(Chart Data - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 17 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1	CHECK 2	CHECK 3	CHECK 4	CHECK 5	CHECK 6	CHECK 7	CHECK 8
						IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY
	Camera & Fuel (Sta. 515-742)												
E-9e	Camera K-22A (24" Lens Cone)	44	573	25.2	O								
E-9f	Camera K-17C (6" Lens Cone)	29	573	16.6	O								
E-9g	Camera K-17C (12" Lens Cone)	31	573	17.8	O								
E-9h	Camera K-17C (24" Lens Cone)	53	573	30.4	O								
E-10	Magazine - Type A8B (Empty)	28	573	16.0	X								
E-10a	Magazine - Type A9B (Empty)	21	573	12.0	O								
E-10b	Magazine - Type A-28 (Empty)	55	573	31.5	O								
E-10c	Magazine - Type A-18 (Empty)	60	573	34.4	O								
E-10d	Magazine - Type LA-12 (Empty)	61	573	35.0	O								
E-11	Adapter Assy. K-38	7	573	4.0	X								
E-11a	Adapter Assy. K-Series	5	573	2.9	O								
E-11b	Adapter Assy. T-11	5	573	2.9	O								
E-11c	Adapter Assy. T-11	5	573	2.9	O								
E-12	Shutter Trip Unit K-37 Camera	20	573	11.5	O								
E-13	Mount Assy. - Camera	9	574	5.2	X								
E-13a	Mount Assy. - Camera	10	574	5.7	X								
E-14	Blast Gun Assy. - Camera	190	577	109.6	X								
E-15	Shutter Trip Unit K-37 Camera	20	579	11.6	O								
E-16	Light Detector - Terrain E-2 UCCS (2)	26	605	15.7	O								
E-17	Camera K-17C (6" Lens Cone) (3)	85	610	52.3	O								
E-17a	Camera KA-3 (LA-7 Lens Cone)(3)	88	610	53.7	X								
E-17b	Camera - Type K-46 (7" Lens Cone) (3)		610		O								

1/ Enter constant used below line.

DD FORM 1 AUG 50 365A

Chart Date - See Sheet 1

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 18 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)				WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
									IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Camera & Fuel (Sta. 515-742)																							
E-17c	Camera	T-11	Cartographic	(3)	207	610	126.3	O																
E-18	Magazine - Type	A-18	(Empty)	(3)	181	610	110.4	O																
E-18a	Magazine - Type	A-28	(Empty)	(3)	164	610	100.0	X																
E-18b	Magazine - Type	LA-12	(Empty)	(3)	182	610	111.0	O																
E-18c	Magazine - Type	A-9A	(Empty)	(3)	68	610	41.5	O																
E-19	Adapter Assy.	K-17C	5-54152	(3)	19	610	11.5	O																
E-19a	Adapter Assy.	KA-3	5-54152-501	(3)	19	610	11.6	X																
E-19b	Adapter Assy.	T-11	5-47880-5	(3)	14	610	8.5	O																
E-19c	Adapter Assy.	T-11	5-54124	(3)	14	610	8.5	O																
E-19d	Adapter Assy.	K-46	5-48209-3	(2)	9	610	5.5	O																
E-19e	Adapter Assy.	K-45	5-48208-3		4	610	2.4	O																
E-20	Chassis - Computer Unit	D-2	UCCS	(2)	56	619	34.7	X																
E-21	Computer Unit	A-2	UCCS	(6)	113	619	69.9	O																
E-22	Mounting Base	A-1	UCCS	(2)	14	619	8.7	X																
E-23	Synchronizer - Marker Unit	C-1	UCCS		15	619	9.3	O																
E-24	Memory Delay Assy.	A-1	UCCS		17	619	10.5	O																
E-25	Chassis - Amplifier Unit	D-3	UCCS	(2)	59	619	36.5	X																
E-26	Amplifier Unit	F-1	UCCS	(6)	91	619	56.3	O																
E-27	Junction Box - Main	C-1	UCCS		20	619	12.4	X																
E-28	Amplifier	Type H-1		(3)	22	619	13.6	O																
E-28a	Amplifier	Type LA-13		(3)	23	619	14.2	O																
E-29	Antenna	AN/APN-76			10	718	7.2	X																

1/ Enter constant used below line.

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Chart Date - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 19 OF 32 PAGES | AIRPLANE MODEL: RB-47E | SERIAL NUMBER: AF52-790 | DELIVERY DATE: 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)				WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
									IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Camera & Fuel (Sta. 515-742)																							
E-30	Amplifier	Type D-1	UCCS	(4)	42	619	26.0	X																
E-31	Amplifier	Type E-1	UCCS	(8)	13	619	8.0	X																
E-32	Pulse Shaper	Type A-1	UCCS	(4)	7	619	4.3	X																
E-33	Pulse Shaper	Type A-2	UCCS	(2)	4	619	2.5	X																
E-34	Intervalometer	Type C-1	UCCS	(1)	9	619	5.6	X																
E-35	Computer	Type B-1	UCCS	(5)	9	619	5.5	X																
E-36	Control	Type D-4	UCCS	(5)	13	619	8.0	X																
E-37	Control	Type D-5	UCCS		6	619	3.7	X																
E-38	Mounting Base	Type B-2	UCCS	(4)	19	619	11.8	X																
E-39	Mounting Base	Type B-1	UCCS	(5)	25	619	15.5	X																
E-40	Mounting Base	Type B-5	UCCS		4	619	2.5	X																
E-41	Box - Jumper	10-1627	UCCS	(2)	5	619	3.7	X																

1/ Enter constant used below line.

DD, FORM 1 AUG 50 365A

Chart Date - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 20 OF 32 PAGES | AIRPLANE MODEL: RB-47E | SERIAL NUMBER: AF52-790 | DELIVERY DATE: 9-25-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT
	Aft. Landing Gear & ATO or ECM (Sta. 742-861)				
	WHEEL WELL				
F-1	Container & Heater - Purging 10-1013-501	6	751	4.5	X
F-2	Oxygen Cylinder Type F-1 (Charged) (2)	22	757	16.7	X
F-3	Container & Heater - Purging 10-1013-501 (2)	13	815	10.6	X
F-4	Container & Heater - Purging 10-1013-501 (6)	38	828	31.5	X
F-5	Oxygen Cylinder Type G-1 (Charged)	21	839	17.6	X
	ATO				
F-6	ATO Racks 5-39488 (6)	212	801	169.8	O
F-7	ATO Panels - Plain 4-2505 (4)	62	802	49.7	O
F-7a	ATO Shrouds (8) (4-2601, 4-2603, 4-2604, 4-2605)	85	805	68.4	O
	ATO Bottles (See Page 15, Chart E)				

CHECK

1	2	3	4	5	6	7	8
IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY

1/ Enter constant used below line.

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Chart Date - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

PAGE 21 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)			WEIGHT	ARM	1/ MOMENT / 1000	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
								IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Aft. Landing Gear & ATO or ECM (Sta. 742-861)																						
	ECM																						
F-8	Chute Assy. - Chaff	L-3722	(2)	8	749	6.0	X																
F-9	Stripper Unit - Chaff	AN/ALE	(2)	45	755	34.0	O																
F-10	Hopper Assy. - Chaff	L-3721	(2)	93	791	73.6	X																
F-11	ECM Panels - Plain	L-2600	(4)	58	802	45.5	X																
F-12	Intervalometer - Chaff	TD-93(XA)/ALE-1	(2)	16	836	13.4	O																
F-13	Battery Type K-1	32587	(2)	146	842	122.9	O																
F-14	Intervalometer - Chaff	TD-93(XA)/ALE-1	(2)	16	846	13.5	O																
F-15	Receiver Transmitter	RT-178 /ARC-27		70	852	59.6	O																

1/ Enter constant used below line.

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Chart Data - See Sheet 1

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CHART A - BASIC WEIGHT CHECK LIST

PAGE 22 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	1/ MOMENT / 1000	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
						IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Aft. Fuel (Sta. 861-1024)																				
G-1	Antenna AT-234 /APX	3	917	2.8	X																
G-2	Antenna AN/ARC-27	3	940	2.8	O																

1/ Enter constant used below line.

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Chart Date - See Sheet 1

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 23 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT / 1000 1/	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
						IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Flight Control & Accessory (Sta. 1024-1222)																				
H-1	Lock - Main Gear Down F65679 (Stowed) (2)	2	1026	2.1	X																
H-2	Jack Pads F65699 (Stowed) (4)	6	1026	6.2	X																
H-3	Radar Central MX-1284 /APG-32A A-5 Sys.	95	1031	97.9	X																
H-4	Antenna AT-183 /AP (2)	5	1032	5.2	O																
H-4a	Antenna AT-184 /AP (2)	4	1032	4.1	O																
H-4b	Antenna AT-185 /AP (2)	4	1032	4.1	O																
H-5	Inverter F45-3 A-5 Sys.	56	1038	58.1	X																
H-6	Computer - Tail 7028E76G1 A-5 Sys.	86	1040	89.4	X																
H-7	Gyro Drive Unit 7026E84G1 A-5 Sys.	54	1044	56.4	X																
H-8	Detector - Photo Flash MIL-D-7674 UCCS	9	1056	9.5	X																
H-9	Voltage Regulator CN-96 /APG-32 A-5 Sys.	10	1056	10.6	X																
H-10	Ejector Assy. - Photo - Flash Cartridge (4)	465	1058	492.0	X																
H-11	Detector - Image Velocity A-3 UCCS	8	1061	8.5	O																
H-12	Detector - Terrain Light B-2 UCCS	13	1062	13.8	O																
H-13	Cover Assy. - F30170 or F30127 (Stowed)	9	1067	9.6	X																
H-14	Junction Box 519E394G1 A-5 Sys.	26	1067	27.7	X																
H-15	Inverter - Frequency 4113 A-5 Sys.	14	1067	14.9	O																
H-16	Locks - Outrigger F65701 (Stowed) (2)	24	1070	25.7	X																
H-17	Transmitter T-116 /APT-5A (2)	116	1075	124.7	O																
H-18	Rectifier Power Unit PP-104 /APT-5 (2)	81	1075	87.1	O																
H-19	Cover Assy. - F30172 or F66218 (Stowed)	17	1075	18.3	X																
H-20	Receiver R-122 /ARN-12	7	1076	7.5	O																

1/ Enter constant used below line.

DD FORM 1 AUG 50 365A

Chart Date - See Sheet 1

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 24 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1000 1/	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	CHECK 1 CHART C ENTRY	CHECK 2 IN AIRPLANE	CHECK 2 CHART C ENTRY	CHECK 3 IN AIRPLANE	CHECK 3 CHART C ENTRY	CHECK 4 IN AIRPLANE	CHECK 4 CHART C ENTRY	CHECK 5 IN AIRPLANE	CHECK 5 CHART C ENTRY	CHECK 6 IN AIRPLANE	CHECK 6 CHART C ENTRY	CHECK 7 IN AIRPLANE	CHECK 7 CHART C ENTRY	CHECK 8 IN AIRPLANE	CHECK 8 CHART C ENTRY
	Flight Control & Accessory (Sta. 1024-1222)																				
H-21	Power Supply PP-298 /ARC-21X	26	1076	28.0	O																
H-22	Dynamotor DY-66 /ARN-14	16	1076	17.2	O																
H-23	Receiver R-540 /ARN-14C	30	1076	32.3	O																
H-24	Receiver Transmitter RT-82 /APX-6	39	1082	42.2	X																
H-24a	Receiver Transmitter RT-279 /APX	45	1082	48.7	O																
H-25	Junction Box - Ejector Type C-2	4	1088	4.4	X																
H-26	Servo Motor - Elevator Tab 10-1075-9 AFCE	5	1093	5.5	X																
H-27	Receiver Transmitter RT-128 /ARC-21	132	1104	145.7	O																
H-28	Antenna AT-183 /AP (2)	5	1104	5.5	O																
H-28a	Antenna AT-184 /AP (2)	4	1104	4.4	O																
H-28b	Antenna AT-185 /AP (2)	4	1105	4.4	O																
H-29	Amplifier - Directional Damper 10-486-2	9	1105	9.9	X																
H-30	Receiver - Transmitter RT-178 /ARC-27	70	1105	77.4	X																
H-31	Antenna AT-487 /ALQ-3	3	1105	3.3	O																
	AN /ALQ-3																				
H-32	Cooler HD-177 /ALQ-3	25	1106	28.8	O																
H-33	Analyzer RF-57 /ALQ-3	31	1106	34.3	O																
H-34	Power Supply PP-1062 /ALQ-3	60	1106	66.4	O																
H-35	Receiver R-594 /ALQ-3	48	1106	53.1	O																
H-36	Transmitter T-444 /ALQ-3	100	1106	110.6	O																

1/ Enter constant used below line.

DD FORM 1 AUG 50 365A

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Chart Date - See Sheet 1

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 25 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)			WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	CHECK 1 CHART C ENTRY	CHECK 2 IN AIRPLANE	CHECK 2 CHART C ENTRY	CHECK 3 IN AIRPLANE	CHECK 3 CHART C ENTRY	CHECK 4 IN AIRPLANE	CHECK 4 CHART C ENTRY	CHECK 5 IN AIRPLANE	CHECK 5 CHART C ENTRY	CHECK 6 IN AIRPLANE	CHECK 6 CHART C ENTRY	CHECK 7 IN AIRPLANE	CHECK 7 CHART C ENTRY	CHECK 8 IN AIRPLANE	CHECK 8 CHART C ENTRY
	Flight Control & Accessory (Sta. 1024-1222)																						
	AN /APT-6																						
H-37	Transmitter	T-249 /APT-6	(2)	104	1106	115.0	O																
H-37a	Transmitter	T-301 /APT-6	(2)	100	1106	110.6	O																
H-38	Power Supply	PP-506 /APT-6	(2)	96	1106	106.2	O																
	AN /APT-9																						
H-39	Transmitter	T-147 /APT-9	(2)	86	1106	95.1	O																
H-40	Power Supply	PP-104 /APT-5	(2)	82	1106	90.7	O																
	AN /APT-16																						
H-41	Power Supply	PP-915 /APT-16A	(2)	107	1106	118.3	O																
H-42	Modulator	MD-189 /APT-16A	(2)	49	1106	54.2	O																
H-43	Transmitter	T-255 /APT-16A	(2)	186	1106	205.7	O																
H-44	Dynamotor	DY-66 /ARN-14		16	1107	17.7	X																
H-45	Receiver	R-122 /ARN-12		7	1107	7.7	X																
H-46	Receiver	R-540 /ARN-14		30	1108	33.2	X																
H-47	Battery K-1	32587	(2)	146	1108	161.8	X																
H-48	Power Supply	PP-298 /ARC-21X		26	1109	28.8	O																
H-49	Receiver - Transmitter	RT-128 /ARC-21X		132	1110	146.5	O																
H-50	Control - Transmitting Set	C-1228 /APT-16A	(2)	13	1124	14.6	O																
H-51	Servo Motor - Rudder	10-1075-21 AFCE		13	1128	14.7	X																

1/ Enter constant used below line.

DD FORM 1 AUG 50 365A

Chart Date - See Sheet 1

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7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 26 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1	2	3	4	5	6	7	8
						IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY
	Flight Control & Accessory (Sta. 1024-1222)												
H-52	Drum & Brkt. Assy. 10-1075-14 AFCE	5	1128	5.6	X								
H-53	Control - Indicator C-1222 /APT-16A (2)	9	1130	10.2	O								
H-54	Antenna AS-215 /ARN-12	3	1132	3.4	X								
H-55	Resolver Input Unit 9019878G1 A-5 Sys.	27	1146	30.9	X								
H-56	Resolver Input Unit 9019878G1	27	1151	31.1	O								
H-57	Amplifier - Directional Damper 10-4066-2	9	1151	10.4	O								
H-58	Ballast Block & Cover 5-51503-501 (4)	328	1151	377.5	O								
H-59	Limit Switch - Elevator 10-1075-16 AFCE	10	1164	11.6	X								
H-60	Parachute Assy. - Approach 10-1622	33	1187	39.2	X								
H-61	Brake Parachute 10-1037 or 10-2256	87	1189	103.4	X								
H-62	Elevator Servo Motor 10-1075-21 AFCE	13	1216	15.8	X								
H-63	Drum & Brkt. Assy. 10-1075-13 AFCE	6	1216	7.3	X								
H-64	Hydraulic Fluid (2.4 Gal. at 7 lb. /Gal.)	17	1195	20.3	X								

1/ Enter constant used below line.

DD, FORM 1 AUG 50 365A

Chart Date - See Sheet 1

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 27 OF 32 PAGES | AIRPLANE MODEL R3-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1		CHECK 2		CHECK 3		CHECK 4		CHECK 5		CHECK 6		CHECK 7		CHECK 8	
							IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Turret Section (Sta. 1222-1334)																					
I-1	Junction Box	519E395	8	1229	9.8	X																
I-2	Ammo. Box & Booster	(2)	52	1234	64.2	X																
I-3	Servo Amplifier	141D678	9	1237	11.1	X																
I-4	Head - Radio Frequency	RF-51 /APG-32	29	1238	35.9	X																
I-5	Air Bottle	144S0200 (2)	4	1243	5.0	X																
I-6	Blower - R.F. Head	MX-283 /APG-32 (2)	4	1244	5.0	X																
I-7	Modulator - Radar	MD-113 /APG-32	36	1252	45.1	X																
I-8	Amplidyne	5AM31RJ37 (2)	63	1253	78.9	X																
I-9	Control Box	139D772G1	7	1254	8.8	X																
I-10	Charger - Gun	588J059-1 & -2 (2)	28	1269	35.5	X																
I-11	Ammo. Chute	8700-1 & -2 (2)	17	1270	21.6	X																
I-12	Adapter - Chute	141D767-G1 (2)	4	1282	5.1	X																
I-13	Feeder Mechanism	146C298-G1 & G2 (2)	39	1285	50.1	X																
I-14	Antenna	AS-573 /APG-32A	64	1287	82.4	X																
I-15	Cannon - 20MM	Type M24A1 (2)	199	1292	257.1	X																
I-16	Radome - Ellipsoidal		14	1292	18.1	X																
I-17	Total Turret & Fuselage Assy. - Gen. Elect. (Less Items I-1 Thru I-16)		489	1269	620.5	X																
I-17a	Total Turret & Fuselage Assy. - Crosley (Less Items I-1 Thru I-16)		534	1269	677.6	O																

1/ Enter constant used below line.

Chart Date - See Sheet 1

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7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 28 OF 32 PAGES | AIRPLANE MODEL: RB-47E | SERIAL NUMBER: AF52-790 | DELIVERY DATE: 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1/ / 1000	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	CHECK 1 CHART C ENTRY	CHECK 2 IN AIRPLANE	CHECK 2 CHART C ENTRY	CHECK 3 IN AIRPLANE	CHECK 3 CHART C ENTRY	CHECK 4 IN AIRPLANE	CHECK 4 CHART C ENTRY	CHECK 5 IN AIRPLANE	CHECK 5 CHART C ENTRY	CHECK 6 IN AIRPLANE	CHECK 6 CHART C ENTRY	CHECK 7 IN AIRPLANE	CHECK 7 CHART C ENTRY	CHECK 8 IN AIRPLANE	CHECK 8 CHART C ENTRY
	Fin																					
1	Plastic Fin Tip	10-1020-5	24	1282	30.8	0																
1a	Plastic Fin Tip	10-1020-504	35	1282	44.9	X																
2	Antenna	AN/ARN-14	5	1282	6.4	X																

1/ Enter constant used below line.

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Chart Date - See Sheet 1

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 29 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
						IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Wing																				
1	Hydraulic Fluid (7.4 Gal. at 7 lb./Gal.)	52	869	45.2	X																

1/ Enter constant used below line.

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Chart Data - See Sheet 1

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 30 OF 32 PAGES | AIRPLANE MODEL: RB-47E | SERIAL NUMBER: AF52-790 | DELIVERY DATE: 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1	CHECK 2	CHECK 3	CHECK 4	CHECK 5	CHECK 6	CHECK	CHECK 8
						IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY	IN AIRPLANE / CHART C ENTRY
	Nacelles - Inboard												
1	Starter - Generator 2CM77D2 (4)	298	431	128.4	X								
2	Engine (J-47-GE-25) (4)		484 (Approx.)		X								
	(Weight stamped on engine name plate or obtained by weighing engines removed and installed must be recorded and changes corrected on Chart "C".)												

1/ Enter constant used below line.

DD, FORM AUG 50 365A

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Chart Date - See Sheet 1

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 31 OF 32 PAGES | AIRPLANE MODEL RB-47E | SERIAL NUMBER AF52-790 | DELIVERY DATE 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)			WEIGHT	ARM	MOMENT 1/ / 1000	DELIVERY EQUIPMENT	CHECK 1		2		3		4		5		6		7		8	
								IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY
	Nacelles - Outboard																						
1	Alternator - 20KVA	A35A9107	(2)	193	710	137.0	O																
1a	Alternator - 20KVA	A35A9118	(2)	191	710	135.6	X																
2	Alternator - 40KVA	5306956	(2)	192	712	136.7	O																
3	Drive Unit - 40KVA	M623860	(2)	148	723	107.0	O																
4	Starter - Generator	2CM7702	(2)	149	733	109.2	X																
5	Engine	(J-47-GE-25)	(2)		786 (Approx.)		X																
	(Weight stamped on engine name plate or obtained by weighing engine removed and installed must be recorded and changes corrected on Chart "C".)																						

1/ Enter constant used below line.

Chart Date - See Sheet 1

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7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 32 OF 32 PAGES | AIRPLANE MODEL: RB-47E | SERIAL NUMBER: AF52-790 | DELIVERY DATE: 9-15-54

FOR USE IN AN 01-1B-40

RECORD OF CHECKING (Enter date)

COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1/ 1000	DELIVERY EQUIPMENT	CHECK 1 IN AIRPLANE	CHECK 1 CHART C ENTRY	CHECK 2 IN AIRPLANE	CHECK 2 CHART C ENTRY	CHECK 3 IN AIRPLANE	CHECK 3 CHART C ENTRY	CHECK 4 IN AIRPLANE	CHECK 4 CHART C ENTRY	CHECK 5 IN AIRPLANE	CHECK 5 CHART C ENTRY	CHECK 6 IN AIRPLANE	CHECK 6 CHART C ENTRY	CHECK 7 IN AIRPLANE	CHECK 7 CHART C ENTRY	CHECK 8 IN AIRPLANE	CHECK 8 CHART C ENTRY
	Miscellaneous Data																				
1	Unusable Fuel (Not indicated by gages)																				
	See Page 26 of Chart "B"																				
1a	MIL-F-5616 6.8 lb./Gal. (82.1 Gal.)	558		317	O																
1b	MIL-F-5624 6.5 lb./Gal. (82.1 Gal.)	534		304	X																
1c	MIL-F-5572 6.0 lb./Gal. (82.1 Gal.)	493		280	O																

1/ Enter constant used below line.

DD, FORM 1 AUG 50 365A

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Chart Date - See Sheet 1

CHART C - BASIC WEIGHT AND BALANCE RECORD

(CONTINUOUS HISTORY OF CHANGES IN STRUCTURE OR EQUIPMENT AFFECTING WEIGHT AND BALANCE)

FOR USE IN AN 01-1B-40

AIRPLANE MODEL: RB-47E

SERIAL NUMBER: AF52-790

PAGE NUMBER:

DATE	ITEM NO. IN	ITEM NO. OUT	DESCRIPTION OF ARTICLE OR MODIFICATION	WEIGHT CHANGE ADDED (+) WEIGHT	ARM	1/ MOMENT / 1000	WEIGHT CHANGE REMOVED (—) WEIGHT	ARM	1/ MOMENT / 1000	RUNNING TOTAL BASIC AIRPLANE WEIGHT	1/ MOMENT / 1000	2/ INDEX
9-15-5[illegible]			Basic Weight for Delivery (Wheels Down) (Based on Actual Weighing)							83,537	50,391	

1/ Enter constant used below line. 2/ Balance computer index.

DD FORM 1 AUG 50 365C

CHART E – LOADING DATA

The loading data on the following sheets provide a means of computing a correct and accurate loading for the RB-47E Airplane. A brief description of each chart follows:

1-FUEL MANAGEMENT

Correct fuel loading and usage are both necessary in order that "Center of Gravity Limits" will not be exceeded for either take-off or flight conditions. The Fuel Management section consists of the following:

(a) Fuel Management Introduction	- Sheet 3
(b) Fuel Consumption Procedure	- Sheet 4
(c) Fuel Loading chart	- Sheets 5 and 6
(d) Fuel Weight - Volume - Density Conversion Table	- Sheets 7, 8 and 9

2-LOADING TABLES

Weight and Moment 1000 values are tabulated for the variable load items for entry on Weight and Balance Clearance Form F.

(a) Fuel Moment Tables	– Sheet 10, 11 and 12
(b) Oil Table	– Sheet 13
(c) Water Injection Table	– Sheet 13
(d) Crew Table	– Sheet 13
(e) Ammunition Table	– Sheet 14
(f) Flash Bomb Loading Table	– Sheet 14
(g) Chaff Table	– Sheet 14
(h) ATO Rocket Tables	– Sheet 15
(i) Cargo Loading Tables	– Sheet 16

3-COMPARTMENT STRUCTURAL CAPACITY

The table on Sheet 16 gives concentrated and maximum compartment capacities by individual compartments.

4-CENTER OF GRAVITY GRAPH

The Graph on Sheet 17 shows the complete Center of Gravity Capabilities of the airplane.

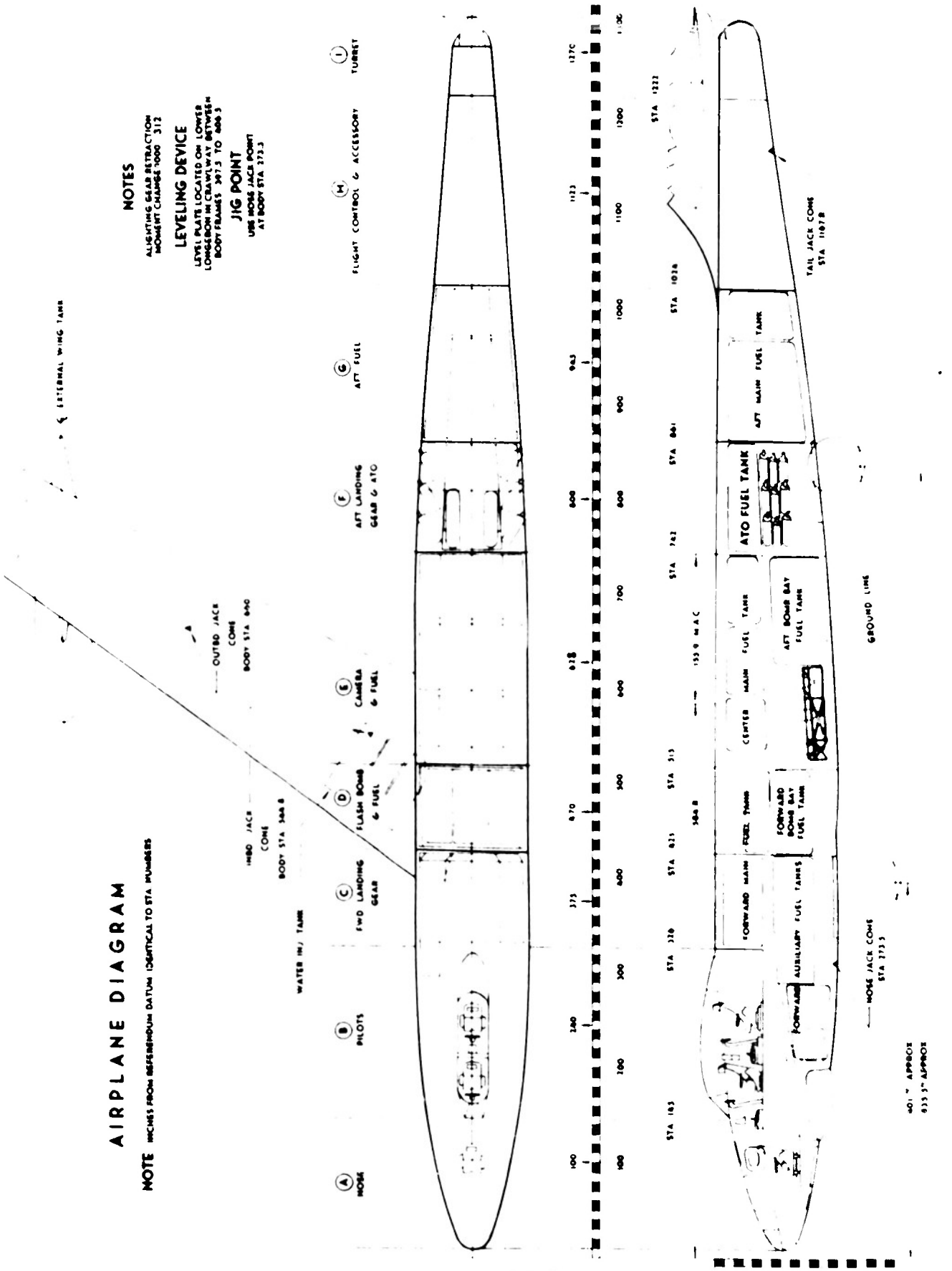
5-CENTER OF GRAVITY MOMENT TABLES

Total weight and moment/1000 from Form F may be checked on tables, Sheet 18 through 25, to determine airplane center of gravity and ascertain whether or not it is within the prescribed limits.

6-MISCELLANEOUS DATA

Hydraulic fluid, trapped and unusable fuel data is shown on Sheet 26.

On Sheet 26 is a table of miscellaneous over-all outside dimensions.


NOTES
ALIGHTING GEAR RETRACTION
NOSE SHIFT CHANGE 1000 312
LEVELING DEVICE
LEVEL PLATE LOCATED ON LOWER
LONGERON IN CRAWLWAY BETWEEN
BODY FRAMES 347.5 TO 406.5
JIG POINT
USE NOSE JACK POINT
AT BODY STA 272.5
AIRPLANE DIAGRAM
NOTE INCHES FROM REFERENCE DATUM (IDENTICAL TO STA NUMBERS
Ⓐ NOSE
Ⓑ PILOTS
Ⓒ FWD LANDING GEAR
Ⓓ FLASH BOMB & FUEL
Ⓔ CAMERA & FUEL
Ⓕ AFT LANDING GEAR & ATO
Ⓖ AFT FUEL
Ⓗ FLIGHT CONTROL & ACCESSORY
Ⓘ TURRET
WATER INJ TANK
INBD JACK CONE BODY STA 344.8
OUTBD JACK CONE BODY STA 640
EXTERNAL WING TANK
FORWARD MAIN FUEL TANKS
FORWARD AUXILIARY FUEL TANKS
FORWARD BOMB BAY FUEL TANKS
CENTER MAIN FUEL TANK
AFT BOMB BAY FUEL TANK
ATO FUEL TANK
AFT MAIN FUEL TANK
TAIL JACK CONE STA 1107.8
NOSE JACK CONE STA 272.5
GROUND LINE
STA 103
STA 320
STA 425
STA 515
STA 742
STA 861
STA 1026
STA 1122
25.1° APPROX
33.5° APPROX

FUEL MANAGEMENT

Controlled fuel distribution is required to keep the RB-47E properly balanced. The fuel loading and consumption procedures in these charts are designed to keep the airplane within its center of gravity range regardless of the density of fuel used, while requiring a minimum of the pilot's attention.

The Fuel Management Section consists of one Fuel-Density-Weight Conversion Table, one Fuel Loading Chart and one Consumption Procedure Chart. The Loading Chart provides a loading sequence for "Operating Weight" (Form F ref. 5) less ammunition, Centers of Gravity from 8% to 18% MAC. The Consumption Procedure provides the same usage for all Operating Weight Centers of Gravity covered in this chart.

The Fuel Loading Chart is so arranged that it is good for Operating Weight Centers of Gravity for 8 to 18% MAC and covers 6.0, 6.5 and 6.8 # Gallon fuel and is also applicable with or without the Flash-Bomb load. The importance of strict adherence to the given loading sequence cannot be over emphasized inasmuch as these procedures are also applicable for flight refueling.

The Consumption Procedure Chart indicates how the fuel is used and transferred from the various tanks. The use and accuracy of this chart is directly dependant on prior fuel loading in accordance with the Fuel Loading Chart.

NOTE

The Weight and Moment of the Ammunition must be deducted from the "Operating Weight" prior to using the Fuel Loading Charts.

If Loading is made using the old type Form "F", in lieu of "DD Form 365F," the "Minimum Landing Weight" (Form F ref 4) center of gravity and weight should be used.

RB-47E FUEL CONSUMPTION PROCEDURE

THIS CONSUMPTION PROCEDURE IS VALID FOR ALL AIRPLANES WITH OPERATING WEIGHT CENTERS OF GRAVITY (LESS AMMUNITION) FROM 8% TO 18% MAC (WHEELS DOWN).

(DETAILED OPERATING INSTRUCTIONS ARE CONTAINED IN T.O. NO. 1B-47(R) E-1)

A. AUXILIARY FUEL

If the following auxiliary tanks contain fuel, transfer each in the following consecutive order. Start transfer at beginning of flight or immediately after refueling.

1. Both External Wing Tanks - Transfer to all mains or direct feed to engines.
2. A. T. O. Tank - Transfer to all mains or direct feed to engines.
3. Forward Bomb Bay Tank - Transfer to all mains or direct feed to engines.
4. Aft Bomb Bay Tank - Transfer to all mains or direct feed to engines.
5. Forward Auxiliary Tank - Transfer to *Forward* and *Center* mains *only*.

B. MAIN FUEL

Equalize fuel in Forward and Center Main Tanks untill the Aft Main Tank contains 3,000 pounds more fuel than each of the other two Main Tanks. Then use fuel equally from the three Main Tanks.

FUEL LOADING CHART

FOR OPERATING WEIGHT CENTER OF GRAVITY FROM 8% TO 12% MAC (SEE NOTE ON PG. 3)

(WHEN S LOW)

OPERATING WEIGHT CENTER OF GRAVITY (%MAC) (SEE NOTE 4, REF. 5) = 8% TO 12% MAC

FUEL QUANTITY DESIRED (lbs.)	0-0	0-8	(SEE NOTES BELOW) LOADING SEQUENCE
21,000	21,000	21,000	1
25,000	25,000	25,000	1-5
29,000	27,000	27,000	1-5-4
33,000	29,000	29,000	1-5-4-3
37,000	31,000	31,000	1-5-4-3-2
41,000	33,000	33,000	1-5-4-3-2-6
45,000	35,000	35,000	1-5-4-3-2-6-7
49,000	37,000	37,000	1-5-4-3-2-6-7-8
53,000	39,000	39,000	1-5-4-3-2-6-7-8-9
57,000	41,000	41,000	1-5-4-3-2-6-7-8-9-10
61,000	43,000	43,000	1-5-4-3-2-6-7-8-9-10-11
65,000	45,000	45,000	1-5-4-3-2-6-7-8-9-10-11-12
69,000	47,000	47,000	1-5-4-3-2-6-7-8-9-10-11-12-13
73,000	49,000	49,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14
77,000	51,000	51,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15
81,000	53,000	53,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16
85,000	55,000	55,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17
89,000	57,000	57,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17-18
93,000	59,000	59,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17-18-19
97,000	61,000	61,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20
101,000	63,000	63,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21
105,000	65,000	65,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22
109,000	67,000	67,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23
113,000	69,000	69,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24
117,000	71,000	71,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25
121,000	73,000	73,000	1-5-4-3-2-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26

▲ Applicable only when the 26th CAPLOR is installed

FUEL TANK

FUEL FORWARD AUXILIARY TANK

FUEL AFT MAIN TANKS TO 12% MAC EACH

FUEL EXTERNAL WING TANKS

FUEL AFT BOMB BAY TANK

FUEL FORWARD BOMB BAY TANK

FUEL TRIM TANK

NOTE: IN-FLIGHT REFUELING MUST FOLLOW THE LOADING SEQUENCE AS SHOWN.

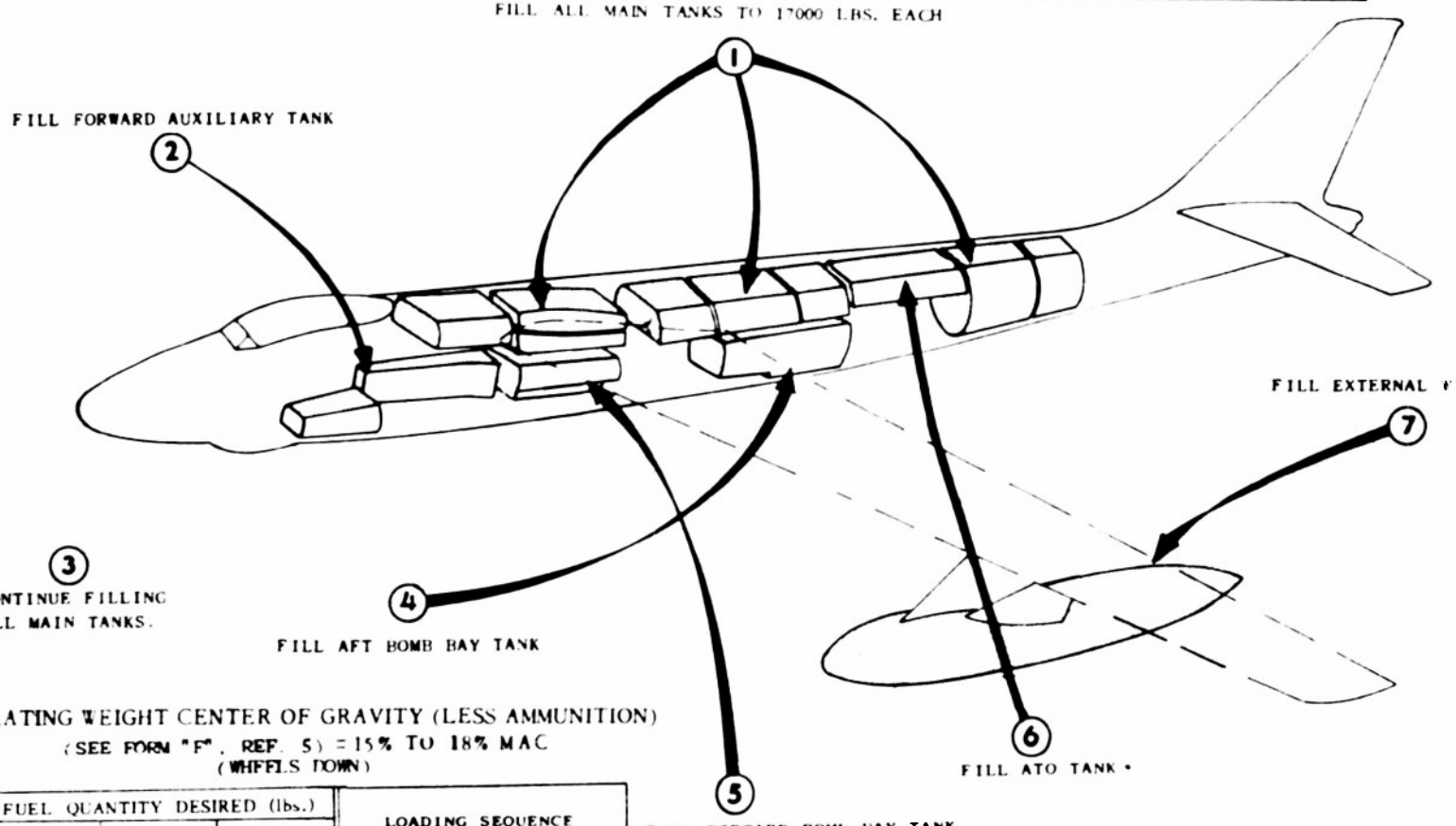
PARTICULAR LOADINGS MUST RESULT IN THE SAME DISTRIBUTION OF TOTAL FUEL BUT NEED NOT FOLLOW THE GROUND LOADINGS

Chart Data-See Sheet 1
Model RB-47E
Sheet 5 of 26
Chart E

Revised 15 January 1954 manual

FUEL LOADING CHART

FOR OPERATING WEIGHT CENTER OF GRAVITY FROM 15% TO 18% MAC (SEE NOTE ON PG. 3)



OPERATING WEIGHT CENTER OF GRAVITY (LESS AMMUNITION)
(SEE FORM "F", REF. 5) = 15% TO 18% MAC
(WHEELS DOWN)

FUEL QUANTITY DESIRED (lbs.) 6.0	6.5	6.8	LOADING SEQUENCE (SEE NOTES BELOW)
51,000	51,000	51,000	①
57,030	57,533	57,834	① ②
61,254	66,360	69,421	① ② ③
75,474	81,765	85,537	① ② ③ ④
82,494	89,370	93,493	① ② ③ ④ ⑤
90,054	97,560	102,061	① ② ③ ④ ⑤ ⑥ •
▲ 85,770	92,919	97,206	① ② ③ ④ ⑤ ⑥
106,570	115,120	120,245	① ② ③ ④ ⑤ ⑥ ⑦ •
▲ 105,846	114,669	119,958	① ② ③ ④ ⑤ ⑥ ⑦

▲ APPLICABLE ONLY WHEN THE 546 GALLON ATO TANK IS INSTALLED

• FOR AIRPLANES WITH THE 1260 GALLON ATO TANK, WHEN FILLING ALL TANKS FOR A MAXIMUM FUEL LOAD STEPS (① THRU ⑦), THE AFT CENTER OF GRAVITY LIMIT WILL BE EXCEEDED IF THE ATO TANK IS FILLED BEYOND 4,000 POUNDS OF FUEL.

NOTE: IN-FLIGHT REFUELING MUST FOLLOW THE LOADING SEQUENCE AS SHOWN.

GROUND LOADINGS MUST RESULT IN THE SAME DISTRIBUTION OF TOTAL FUEL BUT NEED NOT FOLLOW ANY PARTICULAR LOADING SEQUENCE.

FUEL VOLUME-DENSITY-WEIGHT CONVERSION TABLE

FUEL VOLUME GALLONS	FUEL DENSITIES IN POUNDS PER GALLON										
	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
	FUEL WEIGHT IN POUNDS										
100	600	610	620	630	640	650	660	670	680	690	700
200	1200	1220	1240	1260	1280	1300	1320	1340	1360	1380	1400
300	1800	1830	1860	1890	1920	1950	1980	2010	2040	2070	2100
400	2400	2440	2480	2520	2560	2600	2640	2680	2720	2760	2800
500	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500
600	3600	3660	3720	3780	3840	3900	3960	4020	4080	4140	4200
700	4200	4270	4340	4410	4480	4550	4620	4690	4760	4830	4900
800	4800	4880	4960	5040	5120	5200	5280	5360	5440	5520	5600
900	5400	5490	5580	5670	5760	5850	5940	6030	6120	6210	6300
1000	6000	6100	6200	6300	6400	6500	6600	6700	6800	6900	7000
1100	6600	6710	6820	6930	7040	7150	7260	7370	7480	7590	7700
1200	7200	7320	7440	7560	7680	7800	7920	8040	8150	8280	8400
1300	7800	7930	8060	8190	8320	8450	8580	8710	8840	8970	9100
1400	8400	8540	8680	8820	8960	9100	9240	9380	9520	9660	9800
1500	9000	9150	9300	9450	9600	9750	9900	10050	10200	10350	10500
1600	9600	9760	9920	10080	10240	10400	10560	10720	10880	11040	11200
1700	10200	10370	10540	10710	10880	11050	11220	11390	11560	11730	11900
1800	10800	10980	11160	11340	11520	11700	11880	12060	12240	12420	12600
1900	11400	11590	11780	11970	12160	12350	12540	12730	12920	13110	13300
2000	12000	12200	12400	12600	12800	13000	13200	13400	13600	13800	14000
2100	12600	12810	13020	13230	13440	13650	13860	14070	14280	14490	14700
2200	13200	13420	13640	13860	14080	14300	14520	14740	14960	15180	15400
2300	13800	14030	14260	14490	14720	14950	15180	15410	15640	15870	16100
2400	14400	14640	14880	15120	15360	15600	15840	16080	16320	16560	16800
2500	15000	15250	15500	15750	16000	16250	16500	16750	17000	17250	17500
2600	15600	15860	16120	16380	16640	16900	17160	17420	17680	17940	18200
2700	16200	16470	16740	17010	17280	17550	17820	18090	18360	18630	18900
2800	16800	17080	17360	17640	17920	18200	18480	18760	19040	19320	19600
2900	17400	17690	17980	18270	18560	18850	19140	19430	19720	20010	20300
3000	18000	18300	18600	18900	19200	19500	19800	20100	20400	20700	21000
3100	18600	18910	19220	19530	19840	20150	20460	20770	21080	21390	21700
3200	19200	19520	19840	20160	20480	20800	21120	21440	21760	22080	22400
3300	19800	20130	20460	20790	21120	21450	21780	22110	22440	22770	23100
3400	20400	20740	21080	21420	21760	22100	22440	22780	23120	23460	23800
3500	21000	21350	21700	22050	22400	22750	23100	23450	23800	24150	24500
3600	21600	21960	22320	22680	23040	23400	23760	24120	24480	24840	25200
3700	22200	22570	22940	23310	23680	24050	24420	24790	25160	25530	25900
3800	22800	23180	23560	23940	24320	24700	25080	25460	25840	26220	26600
3900	23400	23790	24180	24570	24960	25350	25740	26130	26520	26910	27300
4000	24000	24400	24800	25200	25600	26000	26400	26800	27200	27600	28000
4100	24600	25010	25420	25830	26240	26650	27060	27470	27880	28290	28700
4200	25200	25620	26040	26460	26880	27300	27720	28140	28560	28980	29400
4300	25800	26230	26660	27090	27520	27950	28380	28810	29240	29670	30100
4400	26400	26840	27280	27720	28160	28600	29040	29480	29920	30360	30800
4500	27000	27450	27900	28350	28800	29250	29700	30150	30600	31050	31500
4600	27600	28060	28520	28980	29440	29900	30360	30820	31280	31740	32200
4700	28200	28670	29140	29610	30080	30550	31020	31490	31960	32430	32900
4800	28800	29280	29760	30240	30720	31200	31680	32160	32640	33120	33600
4900	29400	29890	30380	30870	31360	31850	32340	32830	33320	33810	34300
5000	30000	30500	31000	31500	32000	32500	33000	33500	34000	34500	35000
5100	30500	31110	31620	32130	32640	33150	33660	34170	34680	35190	35700
5200	31200	31720	32240	32760	33280	33800	34320	34840	35360	35880	36400
5300	31800	32330	32860	33390	33920	34450	34980	35510	36040	36570	37100
5400	32400	32940	33480	34020	34560	35100	35640	36180	36720	37260	37800
5500	33000	33550	34100	34650	35200	35750	36300	36850	37400	37950	38500
5600	33600	34150	34720	35280	35840	36400	36960	37520	38080	38640	39200
5700	34200	34770	35340	35910	36480	37050	37620	38190	38760	39330	39900
5800	34800	35380	35960	36540	37120	37700	38280	38860	39440	40020	40600
5900	35400	35990	36580	37170	37760	38350	38940	39530	40120	40710	41300
6000	36000	36600	37200	37800	38400	39000	39600	40200	40800	41400	42000

FUEL VOLUME-DENSITY-WEIGHT CONVERSION TABLE

FUEL VOLUME GALLONS	FUEL DENSITIES IN POUNDS PER GALLON										
	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
	FUEL WEIGHT IN POUNDS										
6100	36600	37210	37820	38430	39040	39650	40260	40870	41480	42090	42700
6200	37200	37820	38440	39060	39680	40300	40920	41540	42160	42780	43400
6300	37800	38430	39060	39690	40320	40950	41580	42210	42840	43470	44100
6400	38400	39040	39680	40320	40960	41600	42240	42880	43520	44160	44800
6500	39000	39650	40300	40950	41600	42250	42900	43550	44200	44850	45500
6600	39600	40280	40920	41580	42240	42900	43560	44220	44880	45540	46200
6700	40200	40870	41540	42210	42880	43550	44220	44890	45560	46230	46900
6800	40800	41480	42160	42840	43520	44200	44880	45560	46240	46920	47600
6900	41400	42090	42780	43470	44160	44850	45540	46230	46920	47610	48300
7000	42000	42700	43400	44100	44800	45500	46200	46900	47600	48300	49000
7100	42600	43310	44020	44730	45440	46150	46860	47570	48280	48990	49700
7200	43200	43920	44640	45360	46080	46800	47520	48240	48960	49680	50400
7300	43800	44530	45260	45990	46720	47450	48180	48910	49640	50370	51100
7400	44400	45140	45880	46620	47360	48100	48840	49580	50320	51060	51800
7500	45000	45750	46500	47250	48000	48750	49500	50250	51000	51750	52500
7600	45600	46360	47120	47880	48640	49400	50160	50920	51680	52440	53200
7700	46200	46970	47740	48510	49280	50050	50820	51590	52360	53130	53900
7800	46800	47580	48360	49140	49920	50700	51480	52260	53040	53820	54600
7900	47400	48190	48980	49770	50560	51350	52140	52930	53720	54510	55300
8000	48000	48800	49600	50400	51200	52000	52800	53600	54400	55200	56000
8100	48600	49410	50220	51030	51840	52650	53460	54270	55080	55890	56700
8200	49200	50020	50840	51660	52480	53300	54120	54940	55760	56580	57400
8300	49800	50630	51460	52290	53120	53950	54780	55610	56440	57270	58100
8400	50400	51240	52080	52920	53760	54600	55440	56280	57120	57960	58800
8500	51000	51850	52700	53550	54400	55250	56100	56950	57800	58650	59500
8600	51600	52460	53320	54180	55040	55900	56760	57620	58480	59340	60200
8700	52200	53070	53940	54810	55680	56550	57420	58290	59160	60030	60900
8800	52800	53680	54560	55440	56320	57200	58080	58960	59840	60720	61600
8900	53400	54290	55180	56070	56960	57850	58740	59630	60520	61410	62300
9000	54000	54900	55800	56700	57600	58500	59400	60300	61200	62100	63000
9100	54600	55510	56420	57330	58240	59150	60060	60970	61880	62790	63700
9200	55200	56120	57040	57960	58880	59800	60720	61640	62560	63480	64400
9300	55800	56730	57660	58590	59520	60450	61380	62310	83240	64170	65100
9400	56400	57340	58280	59220	60160	61100	62040	62980	63920	64860	65800
9500	57000	57950	58900	59850	60800	61750	62700	63650	64600	65550	66500
9600	57600	58560	59520	60480	61440	67400	63360	64320	65280	66240	67200
9700	58200	59170	60140	61110	62080	63050	64020	64990	65960	66930	67900
9800	58800	59780	60760	61740	62720	63700	64680	65660	66640	67620	68600
9900	59400	60390	61380	62370	83360	64350	65340	66330	67320	68310	69300
10000	60000	61000	62000	63000	64000	65000	66000	67000	68000	69000	70000
10100	60600	61610	62620	63630	64640	65650	66660	67670	68680	69690	70700
10200	61200	82220	63240	64260	85280	66300	67320	68340	69360	70380	71400
10300	61800	62830	63860	64890	65920	66950	67980	69010	70040	71070	72100
10400	62400	83440	64480	65520	66560	67600	68640	89680	70720	71760	72800
10500	63000	64050	85100	66150	67200	68250	69300	70350	71400	72450	73500
10600	63600	64660	65720	66780	67840	68900	69960	71020	72080	73140	74200
10700	64200	65270	66340	67410	68480	69550	70620	71690	72760	73830	74900
10800	64800	65880	68960	68040	69120	70200	71280	72360	73440	74520	75600
10900	65400	66490	67580	68670	69760	70850	71940	73030	74120	75210	76300
11000	66000	67100	68200	69300	70400	71500	72600	73700	74800	75900	77000
11100	66600	67710	68820	69930	71040	72150	73260	74370	75480	78590	77700
11200	67200	68320	69440	70560	71680	72800	73920	75040	76160	77280	78400
11300	67800	68930	70060	71190	72320	73450	74580	75710	76840	77970	79100
11400	68400	69540	70680	71820	72960	74100	75240	76380	77520	78660	79800
11500	69000	70150	71300	72450	73600	74750	75900	77050	78200	79350	80500
11600	69600	70760	71920	73080	74240	75400	76560	77720	78880	80040	81200
11700	70200	71370	72540	73710	74880	76050	77220	78390	79560	80730	81900
11800	70800	71980	73160	74340	75520	76700	77880	79060	80240	81420	82600
11900	71400	72590	73760	74970	76160	77350	78540	79730	60920	62110	83300
12000	72000	73200	74400	75600	76800	78000	79200	60400	81600	82800	84000

Revised 15 January 1954

FUEL VOLUME-DENSITY-WEIGHT CONVERSION TABLE

FUEL VOLUME GALLONS	FUEL DENSITIES IN POUNDS PER GALLON										
	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
	FUEL WEIGHT IN POUNDS										
12100	72600	73810	75020	76230	77440	78650	79860	81070	82280	83490	84700
12200	73200	74420	75640	76860	78080	79300	80520	81740	82960	84180	85400
12300	73800	75030	76260	77490	78720	79950	81180	82410	83640	84870	86100
12400	74400	75640	76880	78120	79360	80600	81840	83080	84320	85560	86800
12500	75000	76250	77500	78750	80000	81250	82500	83750	85000	86250	87500
12600	75600	76860	78120	79380	80640	81900	83160	84420	85680	86940	88200
12700	76200	77470	78740	80010	81280	82550	83820	85090	86360	87630	88900
12800	76800	78080	79360	80640	81920	83200	84480	85760	87040	88320	89600
12900	77400	78690	79980	81270	82560	83850	85140	86430	87720	89010	90300
13000	78000	79300	80600	81900	83200	84500	85800	87100	88400	89700	91000
13100	78600	79910	81220	82530	83840	85150	86460	87770	89080	90390	91700
13200	79200	80520	81840	83160	84480	85800	87120	88440	89760	91080	92400
13300	79800	81130	82460	83790	85120	86450	87780	89110	90440	91770	93100
13400	80400	81740	83080	84420	85760	87100	88440	89780	91120	92460	93800
13500	81000	82350	83700	85050	86400	87750	89100	90450	91800	93150	94500
13600	81600	82960	84320	85680	87040	88400	89760	91120	92480	93840	95200
13700	82200	83570	84940	86310	87680	89050	90420	91790	93160	94530	95900
13800	82800	84180	85560	86940	88320	89700	91080	92460	93840	95220	96600
13900	83400	84790	86180	87570	88960	90350	91740	93130	94520	95910	97300
14000	84000	85400	86800	88200	89600	91000	92400	93800	95200	96600	98000
14100	84600	86010	87420	88830	90240	91650	93060	94470	95880	97290	98700
14200	85200	86620	88040	89460	90880	92300	93720	95140	96560	97980	99400
14300	85800	87230	88660	90090	91520	92950	94380	95810	97240	98670	100100
14400	86400	87840	89280	90720	92160	93600	95040	96480	97920	99360	100800
14500	87000	88450	89900	91350	92800	94250	95700	97150	98600	100050	101500
14600	87600	89060	90520	91980	93440	94900	96360	97820	99280	100740	102200
14700	88200	89670	91140	92610	94080	95550	97020	98490	99960	101430	102900
14800	88800	90280	91760	93240	94720	96200	97680	99160	100640	102120	103600
14900	89400	90890	92380	93870	95360	96850	98340	99830	101320	102810	104300
15000	90000	91500	93000	94500	96000	97500	99000	100500	102000	103500	105000
15100	90600	92110	93620	95130	96640	98150	99660	101170	102680	104190	105700
15200	91200	92720	94240	95760	97280	98800	100320	101840	103360	104880	106400
15300	91800	93330	94860	96390	97920	99450	100980	102510	104040	105570	107100
15400	92400	93940	95480	97020	98560	100100	101640	103180	104720	106260	107800
15500	93000	94550	96100	97650	99200	100750	102300	103850	105400	106950	108500
15600	93600	95160	96720	98280	99840	101400	102960	104520	106080	107640	109200
15700	94200	95770	97340	98910	100480	102050	103620	105190	106760	108330	109900
15800	94800	96380	97960	99540	101120	102700	104280	105860	107440	109020	110600
15900	95400	96990	98580	100170	101760	103350	104940	106530	108120	109710	111300
16000	96000	97600	99200	100800	102400	104000	105600	107200	108800	110400	112000
16100	96600	98210	99820	101430	103040	104650	106260	107870	109480	111090	112700
16200	97200	98820	100440	102060	103680	105300	106920	108540	110160	111780	113400
16300	97800	99430	101060	102690	104320	105950	107580	109210	110840	112470	114100
16400	98400	100040	101680	103320	104960	106600	108240	109880	111520	113160	114800
16500	99000	100650	102300	103950	105600	107250	108900	110550	112200	113850	115500
16600	99600	101260	102920	104580	106240	107900	109560	111220	112880	114540	116200
16700	100200	101870	103540	105210	106880	108550	110220	111890	113560	115230	116900
16800	100800	102480	104160	105840	107520	109200	110880	112560	114240	115920	117600
16900	101400	103090	104780	106470	108160	109850	111540	113230	114920	116610	118300
17000	102000	103700	105400	107100	108800	110500	112200	113900	115600	117300	119000
17100	102600	104310	106020	107730	109440	111150	112860	114570	116280	117990	119700
17200	103200	104920	106640	108360	110080	111800	113520	115240	116960	118680	120400
17300	103800	105530	107260	108990	110720	112450	114180	115910	117640	119370	121100
17400	104400	106140	107880	109620	111360	113100	114840	116580	118320	120060	121800
17500	105000	106750	108500	110250	112000	113750	115500	117250	119000	120750	122500
17600	105800	107360	109120	110880	112640	114400	116160	117920	119680	121440	123200
17700	106200	107970	109740	111510	113280	115050	116820	118590	120360	122130	123900
17800	106800	108580	110360	112140	113920	115700	117480	119260	121040	122820	124600
17900	107400	109190	110980	112770	114560	116350	118140	119930	121720	123510	125300
18000	108000	109800	111600	113400	115200	117000	118800	120600	122400	124200	126000

FUEL MOMENT TABLE

ALL FUEL MOMENT ARMS ARE BASED ON A WING ANGLE OF ATTACK OF 5° 30'. (TYPICAL CRUISE CONDITION)

FUEL: MIL-F-5572 — DENSITY: 6.0 LB PER GAL

QUANTITY		FORWARD MAIN TANK		CENTER MAIN TANK		AFT MAIN TANK		FWD BOMB BAY TANK		AFT BOMB BAY TANK		FORWARD AUX TANK		EACH EXTERNAL WING TANK		ATO TANK 1260 GAL		ATO TANK 546 GAL	
GAL PER TANK	LBS	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000
100	600	459.0	275	650.2	390	890.5	534	483.3	290	664.6	411	260.2	156	690.0	414	800.0	480	874.0	500
200	1200	447.0	536	644.8	774	904.8	1086	480.4	576	685.1	822	275.1	330	690.0	828	800.0	960	874.0	1001
300	1800	440.2	792	642.0	1156	911.1	1640	478.7	861	685	1233	284	511	690.0	1242	800.0	1440	874.0	1501
400	2400	435.6	1045	640.8	1538	915.5	2197	477.4	1146	685.1	1644	284	682	690.0	1656	800.0	1920	874.0	2002
500	3000	432.7	1298	640.1	1920	919.2	2758	476.4	1429	685.4	2056	284	852	690.0	2070	800.0	2400	874.0	2502
546	3276																		
600	3600	431.0	1552	640.0	2304	921.8	3318	475.7	1713	685.4	2467	284	1023	690.0	2484	800.0	2880		
700	4200	429.5	1804	639.9	2688	923.8	3880	474.8	1994	685.5	2879	285.7	1240	690.0	2898	800.0	3360		
800	4800	428.4	2056	639.7	3071	925.5	4442	474.1	2276	685.5	3290	297.3	1427	690.0	3312	800.0	3847		
900	5400	427.6	2309	639.2	3452	926.7	5004	473.5	2557	685.5	3702	300.4	1622	690.0	3726	800.0	4320		
1000	6000	426.7	2560	639.1	3835	927.9	5567	472.9	2837	685.5	4113	304.5	1827	690.0	4140	800.0	4800		
1005	6030											304.5	1836						
1100	6600	426.0	2812	639.0	4217	928.4	6127	472.4	3118	685.5	4524			690.0	4554	800.0	5280		
1170	7020							472.0	3313										
1200	7200	425.0	3060	639.0	4601	929.1	6690			685.5	4936			690.0	4968	800.0	5760		
1260	7560															800.0	6048		
1300	7800	424.0	3307	638.8	4983	929.9	7253			685.5	5347			690.0	5382				
1400	8400	423.3	3556	638.8	5366	930.3	7815			685.6	5759			690.0	5796				
1500	9000	422.7	3804	638.6	5747	930.9	8378			685.6	6170			690.0	6210				
1600	9600	422.1	4052	638.4	6129	931.3	8940			685.5	6581			690.0	6624				
1673	10038													690.0	6926				
1700	10200	421.4	4298	638.2	6510	931.7	9503			685.5	6992								
1800	10800	420.8	4545	638.0	6890	932.1	10067			685.4	7402								
1900	11400	420.3	4791	637.9	7272	932.5	10631			685.4	7814								
2000	12000	420.0	5040	637.8	7654	933.0	11196			685.3	8224								
2100	12600	419.6	5287	637.8	8036	933.4	11761			685.2	8634								
2200	13200	419.1	5532	637.7	8418	934.0	12329			685.1	9043								
2300	13800	418.9	5781	637.4	8796	934.2	12892			685.0	9453								
2370	14220									684.9	9739								
2400	14400	418.6	6028	637.1	9174	934.4	13455												
2500	15000	418.2	6273	637.0	9555	934.6	14019												
2600	15600	417.9	6519	636.7	9933	934.8	14583												
2700	16200	417.6	6765	636.1	10305	935.1	15149												
2800	16800	417.3	7011	635.4	10675	935.3	15713												
2841	17046			635.0	10824														
2900	17400	417.1	7258			935.3	16274												
2938	17628	417.0	7351																
3000	18000					935.5	16839												
3100	18600					935.6	17402												
3200	19200					935.5	17962												
3300	19800					935.5	18523												
3400	20400					935.3	19080												
3425	20550					935.2	19218												

TWO EXTERNAL WING TANKS INCL. STRUTS -EMPTY

WEIGHT POUNDS	ARM	MOM 1000
1560	698.9	1090

FUEL MOMENT TABLE

ALL FUEL MOMENT ARMS ARE BASED ON A WING ANGLE OF ATTACK OF 5° 30'. (TYPICAL CRUISE CONDITION)

FUEL: MIL-F-5624 — DENSITY: 6.5 LB PER GAL

QUANTITY		FORWARD MAIN TANK		CENTER MAIN TANK		AFT MAIN TANK		FWD BOMB BAY TANK		AFT BOMB BAY TANK		FORWARD AUX TANK		EACH EXTERNAL WING TANK		ATO TANK 1260 GAL		ATO TANK 546 GAL	
GAL PER TANK	LBS	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000
100	650	459.0	298	650.2	423	890.5	579	483.3	314	684.6	445	260.2	169	690.0	449	800.0	520	834.0	542
200	1300	447.0	581	644.8	838	904.8	1176	480.4	625	685.1	891	275.3	358	690.0	897	800.0	1040	834.0	1084
300	1950	440.2	858	642.0	1252	911.1	1777	478.7	933	685.3	1336	282.8	551	690.0	1346	800.0	1560	834.0	1626
400	2600	435.6	1133	640.8	1666	915.5	2360	477.4	1241	685.4	1782	287.3	747	690.0	1794	800.0	2080	834.0	2168
500	3250	432.7	1406	640.1	2080	919.2	2967	476.4	1543	685.4	2226	290.5	944	690.0	2243	800.0	2600	834.0	2711
546	3549																	834.0	2960
600	3900	431.0	1681	640.0	2496	921.8	3595	475.7	1855	685.4	2673	293.0	1143	690.0	2691	800.0	3120		
700	4550	429.5	1954	639.9	2912	923.8	4203	474.8	2160	685.5	3119	295.2	1343	690.0	3140	800.0	3640		
800	5200	428.4	2226	639.7	3326	925.5	4813	474.1	2465	685.5	3565	297.3	1546	690.0	3588	800.0	4160		
900	5850	427.6	2501	639.2	3739	926.7	5421	473.5	2770	685.5	4010	300.4	1757	690.0	4037	800.0	4880		
1000	6500	426.7	2774	639.1	4154	927.9	6031	472.9	3074	685.5	4456	304.5	1979	690.0	4485	800.0	5200		
1005	6533											304.5	1989						
1100	7150	426.0	3046	639.0	4569	928.4	6636	472.4	3378	685.5	4901			690.0	4934	800.0	5720		
1170	7605							472.0	3590										
1200	7800	425.0	3315	639.0	4984	929.1	7247			685.5	5347			690.0	5382	800.0	6240		
1260	8190															800.0	6552		
1300	8450	424.0	3583	638.9	5399	929.9	7858			685.5	5792			690.0	5831				
1400	9100	423.3	3852	638.8	5813	930.3	8466			685.6	6239			690.0	6279				
1500	9750	422.7	4121	638.6	6226	930.9	9076			685.6	6685			690.0	6728				
1600	10400	422.1	4390	638.4	6639	931.3	9686			685.5	7129			690.0	7176				
1673	10875													690.0	7504				
1700	11050	421.4	4656	638.2	7052	931.7	10295			685.5	7575								
1800	11700	420.8	4923	638.0	7465	932.1	10906			685.4	8019								
1900	12350	420.3	5191	637.9	7878	932.5	11516			685.4	8465								
2000	13000	420.0	5460	637.8	8291	933.0	12129			685.3	8909								
2100	13650	419.6	5728	637.8	8706	933.4	12741			685.2	9353								
2200	14300	419.1	5993	637.7	9119	934.0	13356			685.1	9797								
2300	14950	418.9	6263	637.4	9529	934.2	13966			685.0	10241								
2370	15405									684.9	10551								
2400	15600	418.6	6530	637.1	9939	934.4	14577												
2500	16250	418.2	6796	637.0	10351	934.6	15187												
2600	16900	417.9	7063	636.7	10760	934.8	15798												
2700	17550	417.6	7329	636.1	11164	935.1	16411												
2800	18200	417.3	7595	635.4	11564	935.3	17022												
2841	18467			635.0	11727														
2900	18850	417.1	7862			935.3	17630												
2938	19097	417.0	7963																
3000	19500					935.5	18242												
3100	20150					935.6	18852												
3200	20800					935.5	19458												
3300	21450					935.5	20066												
3400	22100					935.3	20670												
3425	22263					935.2	20820												

TWO EXTERNAL WING TANKS INCL. STRUTS -EMPTY

WEIGHT POUNDS	ARM	MOM 1000
1560	698.9	1090

FUEL MOMENT TABLE

ALL FUEL MOMENT ARMS ARE BASED ON A WING ANGLE OF ATTACK OF 5°30'. (TYPICAL CRUISE CONDITION)

FUEL: MIL-F-5616 — DENSITY: 6.8 LB PER GAL

QUANTITY		FORWARD MAIN TANK		CENTER MAIN TANK		AFT MAIN TANK		FWD BOMB BAY TANK		AFT BOMB BAY TANK		FORWARD AUX TANK		EACH EXTERNAL WING TANK		ATO TANK 1260 GAL		ATO TANK 546 GAL	
GAL PER TANK	LBS	ARM	MOM / 1000	ARM	MOM / 1000	ARM	MOM / 1000	ARM	MOM / 1000	ARM	MOM / 1000	ARM	MOM / 1000	ARM	MOM / 1000	ARM	MOM / 1000	ARM	MOM / 1000
100	680	459.0	312	650.2	442	890.5	606	483.3	329	684.6	466	260.2	177	690.0	469	800.0	544	834.0	567
200	1360	447.0	608	644.8	877	904.8	1231	480.4	653	685.1	932	275.3	374	690.0	938	800.0	1088	834.0	1134
300	2040	440.2	898	642.0	1310	911.1	1859	478.7	977	685.3	1398	282.8	577	690.0	1408	800.0	1632	834.0	1701
400	2720	435.6	1185	640.8	1743	915.5	2490	477.4	1299	685.4	1864	287.3	781	690.0	1877	800.0	2176	834.0	2268
500	3400	432.7	1471	640.1	2176	919.2	3125	476.4	1620	685.4	2330	290.5	988	690.0	2346	800.0	2720	834.0	2836
546	3713																	834.0	3097
600	4080	431.0	1758	640.0	2611	921.8	3761	475.7	1941	685.4	2796	293.0	1195	690.0	2815	800.0	3264		
700	4760	429.5	2044	639.9	3046	923.8	4397	474.8	2260	685.5	3263	295.2	1405	690.0	3284	800.0	3808		
800	5440	428.4	2330	639.7	3480	925.5	5035	474.1	2579	685.5	3729	297.3	1617	690.0	3754	800.0	4352		
900	6120	427.6	2617	639.2	3912	926.7	5671	473.5	2898	685.5	4195	300.4	1836	690.0	4223	800.0	4896		
1000	6800	426.7	2902	639.1	4346	927.9	6310	472.9	3216	685.5	4661	304.5	2071	690.0	4692	800.0	5440		
1005	6834											304.5	2081						
1100	7480	426.0	3156	639.0	4780	928.4	6944	472.4	3534	685.5	5128			690.0	7161	800.0	5984		
1170	7956							472.0	3755										
1200	8160	425.0	3468	639.0	5214	929.1	7581			685.5	5594			690.0	5630	800.0	6528		
1260	8568															800.0	6854		
1300	8840	424.0	3748	638.9	5648	929.9	8220			685.5	6060			690.0	6100				
1400	9520	423.3	4030	638.8	6081	930.3	8856			685.6	6527			690.0	6569				
1500	10200	422.7	4312	638.6	6514	930.9	9495			685.6	6993			690.0	7038				
1600	10880	422.1	4592	638.4	5946	931.3	10133			685.5	7458			690.0	7507				
1673	11376													690.0	7849				
1700	11560	421.4	4871	638.2	7376	931.7	10770			685.5	7924								
1800	12240	420.8	5151	638.0	7809	932.1	11409			685.4	8389								
1900	12920	420.3	5430	637.9	8242	932.5	12048			685.4	8855								
2000	13600	420.0	5712	637.8	8674	933.0	12689			685.3	9320								
2100	14280	419.6	5992	637.8	9108	933.4	13329			685.2	9785								
2200	14960	419.1	6270	637.7	9540	934.0	13973			685.1	10249								
2300	15640	418.9	6552	637.4	9969	934.2	14611			685.0	10713								
2270	16116									684.9	11033								
2400	16320	418.6	6832	637.1	10397	934.4	15249												
2500	17000	418.2	7109	637.0	10829	934.6	15388												
2600	17680	417.9	7388	636.7	11257	934.8	16527												
2700	18360	417.6	7667	636.1	11679	935.1	17168												
2800	19040	417.3	7945	635.4	12098	935.3	17808												
2841	19319			635.0	12268														
2900	19720	417.1	8225			935.3	18444												
2938	19978	417.0	8331																
3000	20400					935.5	19084												
3100	21080					935.6	19722												
3200	21760					935.5	20356												
3300	22440					935.5	20993												
3400	23120					935.3	21624												
3425	23290					935.2	21781												

TWO EXTERNAL WING TANKS INCL. STRUTS -EMPTY

WEIGHT POUNDS	ARM	MOM / 1000
1560	698.9	1090

OIL TABLES

INDIVIDUAL TANKS

QUANTITY PER TANK		MOMENT/1000					
VOLUME GALLONS	WEIGHT @ 7.5 LB PER GAL POUNDS	ENGINE OIL TANK NO. 1 ARM 771	ENGINE OIL TANK NO. 2 ARM 572	ENGINE OIL TANK NO. 3 ARM 581	ENGINE OIL TANK NO. 4 ARM 581	ENGINE OIL TANK NO. 5 ARM 572	ENGINE OIL TANK NO. 6 ARM 771
1	7.5	6	4	4	4	4	6
2	15.0	12	9	9	9	9	12
3	22.5	17	13	13	13	13	17
4	30.0	23	17	17	17	17	23
5	37.5	29	21	22	22	21	29
6	45.0	35	26	26	26	26	35
7	52.5	40	30	31	31	30	40
8	60.0	46	34	35	35	34	46
9	67.5	52	39	39	39	39	52
9.4	70.5	54	40	41	41	40	54

TOTAL TANKS

QUANTITY PER AIRPLANE		
VOLUME GALLONS	WEIGHT @ 7.5 LB PER GAL POUNDS	MOMENT 1000
6	45	29
12	90	56
18	135	87
24	180	117
30	225	144
36	270	173
42	315	202
48	360	231
54	405	260
56.4	423	270

WATER-ALCOHOL MOMENT TABLE

TANK VOLUME	VOLUME GALLONS	WEIGHT @ 8.0 LB PER GAL POUNDS	ARM	MOMENT 1000
1/4	165	1320	511.0	675
1/2	331	2648	507.0	1343
3/4	496	3968	505.0	2003
FULL	662	5300	502.0	2661

CREW MOMENT TABLE

CREW WEIGHT	PHOTO NAVIGATOR STA 108	PILOT STA 190	COPILOT STA 252
	MOMENT / 1000		
160	19	34	45
200	22	38	50
230	25	44	58

AMMUNITION TABLE
20 MM

ROUNDS IN CHUTES & BOXES	WEIGHT POUNDS	MOMENT / 1000		
		CHUTES ARM 1274.0	BOXES ARM 1228.0	TOTAL
100	62	79		79
200	124	79	76	155
300	186	79	152	231
400	248	79	229	308
500	310	79	305	384
600	372	79	381	460
700	434	79	457	536

PHOTO FLASH BOMB TABLE
(TYPE M 120)

NO. OF BOMBS	WEIGHT	MOMENT /1000 ARM 468.0
2	300	140
4	600	281
6	900	421
8	1200	562
10	1500	702

PHOTO FLASH CARTRIDGE TABLE

NO.	WEIGHT	MOMENT/1000 ARM 1061.0
200	180	191

CHAFF TABLE
(METALLIC)

NO. OF PACKAGES	WEIGHT POUNDS	MOMENT 1000
100	110	86
200	220	172
300	330	258
400	440	344
500	550	430
600	660	516
700	770	602
768	845	661

SOLID ATO ROCKET TABLE

ATO ROCKETS EXPENDED

TYPE OF ATO ROCKETS	PER BANK					PER AIRPLANE		
	NUMBER OF ATO ROCKETS	WEIGHT POUNDS	MOMENT/1000 FWD BANK ARM 768.2	MOMENT/1000 CTR BANK ARM 797.6	MOMENT/1000 AFT BANK ARM 828.6	NUMBER OF ATO ROCKETS	WEIGHT POUNDS	MOM/1000
14AS 1000	2	236	181	188	196			
	4	472	363	376	391			
	6	706	542	563	585	18	2124	1690
14DS 1000	2	158	121	126	131			
	4	316	243	252	262			
	6	474	364	378	393	18	1422	1135
15KS 1000	2	136	104	108	113			
	4	272	209	217	225			
	6	408	313	325	338	18	1224	976

ATO ROCKETS CHARGE

TYPE OF ATO ROCKETS	PER BANK					PER AIRPLANE		
	NUMBER OF ATO CHARGES	WEIGHT POUNDS	MOMENT/1000 FWD BANK ARM 766.7	MOMENT/1000 CTR BANK ARM 796.1	MOMENT/1000 AFT BANK ARM 827.1	NUMBER OF ATO CHARGES	WEIGHT POUNDS	MOM/1000
14AS 1000	6	492	377	392	407	18	1476	1176
14DS 1000	6	474	363	377	392	18	1422	1132
15KS 1000	6	432	331	344	357	18	1296	1032

EXTERNAL SOLID ATO ROCKET TABLE

ATO ROCKETS EXPENDED

TYPE OF ATO ROCKETS	PER BANK					PER AIRPLANE		
	NUMBER OF ATO ROCKETS	WEIGHT POUNDS	MOMENT/1000 FWD BANK ARM 883.0	MOMENT/1000 CTR BANK ARM 917.1	MOMENT/1000 AFT BANK ARM 950.3	NUMBER OF ATO ROCKETS	WEIGHT POUNDS	MOM/1000
14AS 1000	11	1298	1146	1190	1233	33	3894	3569
14DS 1000	11	869	767	797	826	33	2607	2390
15KS 1000	11	748	660	686	711	33	2244	2057

ATO ROCKETS CHARGE

TYPE OF ATO ROCKETS	PER BANK					PER AIRPLANE		
	NUMBER OF ATO ROCKETS	WEIGHT POUNDS	MOMENT/1000 FWD BANK ARM 880.6	MOMENT/1000 CTR BANK ARM 914.5	MOMENT/1000 AFT BANK ARM 947.8	NUMBER OF ATO ROCKETS	WEIGHT POUNDS	MOM/1000
14AS 1000	11	902	794	825	855	33	2706	2474
14DS 1000	11	869	765	795	824	33	2607	2384
15KS 1000	11	792	697	724	751	33	2376	2172

EXTERNAL ATO RACK

WEIGHT POUNDS	ARM	MOM/1000
509	916.4	466

COMPARTMENT STUCTURAL CAPACITY

COMPARTMENT NAME AND LETTER DESIGNATION	COMPARTMENT STRUCTURAL CAPACITY IN POUNDS	MAXIMUM CONCENTRATED FLOOR LOADING -LB/SQ FT.
A NOSE	400	40
B PILOTS	—	•
C FWD. LNDNG. GEAR	2500	100
D FLASH BOMB & FUEL	1500	••
E CAMERA & FUEL	—	•
F AFT LNDG. GEAR & ATO	4800	60
G AFT FUEL	—	•
H FLIGHT CONTROL & ACCESSORY	4000	140
I TURRET	—	•

NOTES:
- • LOAD NO CARGO OR BALLAST
- •• LOAD SUPPORTED BY BOMB RACKS ONLY

CARGO LOADING TABLE

WEIGHT POUNDS	A ARM 100	B ARM 240	C ARM 375	D •• ARM 468	E ARM 628	F ARM 800	G ARM 985	H ARM 1123	I ARM 1270
	MOMENT/1000								
50	5		19	23		40		56	
100	10		38	47		80		112	
150	15		56	70		120		168	
200	20		75	94		160		225	
250	25		94	117		200		281	
300	30		113	140		240		337	
350	35		131	164		280		393	
400	40		150	187		320		449	
450			169	211		360		505	
500			188	234		400		562	
550			206	257		440		618	
600			225	281		480		674	
650			244	304		520		730	
700			263	328		560		786	
750			281	351		600		842	
800			300	374		640		898	
850			319	398		680		955	
900			338	421		720		1011	
950			356	445		760		1067	
1000			375	468		800		1123	
1100			413	515		880		1235	
1200			450	562		960		1348	
1300			488	608		1040		1460	
1400			525	655		1120		1572	
1500			563	702		1200		1685	
1600			600			1280		1797	
1700			638			1360		1909	
1800			675			1440		2021	
1900			713			1520		2134	
2000			750			1600		2246	
2500			938			2000		2808	
3000						2400		3369	
3500						2800		3931	
4000						3200		4492	
4500						3600			
4800						3840			

LOAD NO CARGO OR BALLAST IN THIS COMPARTMENT

LOAD NO CARGO OR BALLAST IN THIS COMPARTMENT

LOAD NO CARGO OR BALLAST IN THIS COMPARTMENT

LOAD NO CARGO OR BALLAST IN THIS COMPARTMENT

CENTER OF GRAVITY LIMITATIONS



LEGEND

- FLIGHT LIMIT.
- FLIGHT LIMIT, MODIFIED TO REFLECT THE LANDING GEAR IN THE DOWN POSITION.
- LANDING LIMIT.
- TAXI LIMIT.
- SHADED AREA REPRESENTS THE CENTER OF GRAVITY RANGE AS SHOWN IN THE CHART "E" CENTER OF GRAVITY MOMENT TABLES.

CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																
	8% MAC (597.3)	9% MAC (598.8)	10% MAC (600.4)	11% MAC (601.9)	12% MAC (603.5)	13% MAC (605.1)	14% MAC (606.6)	15% MAC (608.2)	16% MAC (609.7)	18% MAC (612.9)	20% MAC (616.0)	22% MAC (619.1)	24% MAC (622.2)	26% MAC 625.3	28% MAC 628.5	30% MAC (631.6)	32% MAC (634.7)	34% MAC (637.8)
78000	46589	46706	46831	46948	47073	47198	47315	47440	47557	47806	48048	48290	48532	48773	49023	49265	49507	49748
200	46709	46826	46951	47069	47194	47319	47436	47561	47679	47929	48171	48414	48656	48896	49149	49391	49634	49876
400	46828	46946	47071	47189	47314	47440	47557	47683	47800	48051	48294	48537	48780	49024	49278	49517	49760	50004
600	46948	47066	47191	47309	47435	47561	47679	47805	47922	48174	48541	48661	48905	49149	49400	49644	49887	50131
800	47067	47185	47312	47430	47555	47682	47800	47926	48044	48297	48541	48785	49029	49274	49526	49770	50014	50259
79000	47187	47305	47432	47550	47677	47803	47921	48048	48166	48419	48664	48909	49154	49399	49652	49896	50141	50386
200	47306	47425	47552	47670	47797	47924	48043	48169	48288	48542	48787	49033	49278	49524	49777	50023	50268	50514
400	47426	47545	47672	47791	47918	48045	48164	48291	48410	48664	48910	49157	49403	49649	49903	50149	50395	50641
600	47545	47664	47792	47911	48039	48166	48285	48413	48532	48787	49034	49280	49527	49774	50029	50275	50522	50769
800	47665	47784	47912	48032	48159	48287	48407	48534	48654	48909	49157	49404	49652	49899	50154	50402	50649	50896
80000	47784	47904	48032	48152	48280	48408	48528	48656	48776	49032	49280	49528	49776	50024	50280	50528	50776	51024
200	47903	48024	48152	48272	48401	48529	48649	48778	48898	49155	49403	49652	49900	50149	50406	50654	50903	51152
400	48023	48144	48272	48393	48521	48650	48771	48899	49020	49277	49526	49776	50025	50274	50531	50781	51030	51279
600	48142	48263	48392	48513	48642	48771	48892	49021	49142	49400	49650	49899	50149	50399	50657	50907	51157	51407
800	48262	48383	48512	48634	48763	48892	49013	49143	49264	49522	49773	50023	50274	50524	50783	51033	51284	51534
81000	48381	48503	48632	48754	48884	49013	49135	49264	49386	49645	49896	50147	50398	50649	50909	51160	51411	51662
200	48501	48623	48752	48874	49004	49134	49256	49386	49508	49767	50019	50271	50523	50774	51034	51286	51538	51769
400	48620	48742	48873	48995	49125	49255	49377	49507	49630	49890	50142	50395	50647	50899	51160	51412	51665	51917
600	48740	48862	48993	49115	49246	49376	49499	496.9	49752	50013	50266	50519	50772	51024	51286	51539	51792	52044
800	48859	48982	49113	49235	49366	49497	49620	49751	49873	50135	50389	50642	50896	51150	51411	51665	51918	52172
82000	48979	49102	49233	49356	49487	49618	49741	49872	49995	50258	50512	50766	51020	51275	51537	51791	52045	52300
200	49098	49221	49353	49476	49608	49739	49863	49994	50117	50380	50635	50890	51145	51400	51663	51918	52172	52427
400	49218	49341	49473	49597	49728	49860	49984	50116	50239	50503	50758	51014	51269	51525	51788	52044	52299	52555
600	49337	49461	49593	49717	49849	49981	50105	50237	50361	50626	50882	51138	51394	51650	51914	52170	52426	52682
800	49456	49581	49713	49837	49970	50102	50226	50359	50483	50748	51005	51261	51518	51775	52040	52296	52553	52810
83000	49576	49700	49833	49958	50091	50223	50348	50481	50605	50871	51128	51385	51643	51900	52166	52423	52680	52937
200	49695	49820	49953	50078	50211	50344	50469	50602	50727	50993	51251	51509	51767	52025	52291	52549	52807	53065
400	49815	49940	50073	50198	50332	50465	50590	50724	50849	51116	51374	51633	51891	52150	52417	52675	52934	53193
600	49934	50060	50193	50319	50453	50586	50712	50846	50971	51238	51498	51757	52016	52275	52543	52802	53061	53320
800	50054	50180	50314	50439	50573	50707	50833	50967	51093	51361	51621	51881	52140	52400	52668	52928	53188	53448
84000	50173	50299	50434	50560	50694	50828	50954	51089	51215	51484	51744	52004	52265	52525	52794	53054	53315	53575
200	50293	50419	50554	50680	50815	50949	51076	51210	51337	51606	51867	52128	52389	52650	52920	53181	53442	53703
400	50412	50539	50674	50800	50935	51070	51197	51332	51459	51729	51990	52252	52514	52775	53045	53307	53569	53830
600	50532	50658	50794	50921	51056	51191	51318	51454	51581	51851	52114	52376	52638	52900	53171	53433	53696	53958
800	50651	50778	50914	51041	51177	51312	51440	51575	51703	51974	52237	52500	52763	53025	53297	53560	53823	54085
85000	50771	50898	51034	51162	51298	51434	51561	51697	51825	52097	52360	52624	52887	53151	53423	53686	53950	54213
200	50890	51018	51154	51282	51418	51555	51682	51819	51946	52219	52483	52747	53011	53276	53548	53812	54076	54341
400	51009	51138	51274	51402	51539	51676	51804	51940	52068	52342	52606	52871	53136	53401	53674	53939	54203	54468
600	51129	51257	51394	51523	51660	51797	51925	52062	52190	52464	52730	52995	53260	53526	53800	54065	54330	54596
800	51248	51377	51514	51643	51780	51918	52046	52184	52312	52587	52853	53119	53385	53651	53925	54191	54457	54723
86000	51368	51497	51634	51763	51901	52039	52168	52305	52434	52709	52976	53243	53509	53776	54051	54318	54584	54851
200	51487	51617	51754	51884	52022	52160	52289	52427	52556	52832	53099	53356	53634	53901	54177	54444	54711	54978
400	51607	51736	51875	52004	52142	52281	52410	52548	52678	52955	53222	53490	53758	54026	54302	54570	54838	55106
600	51726	51856	51995	52125	52263	52402	52532	52670	52800	53077	53346	53614	53883	54151	54428	54697	54965	55233
800	51846	51976	52115	52245	52384	52523	52653	52792	52922	53200	53469	53738	54007	54276	54554	54823	55092	55361
87000	51965	52096	52235	52365	52505	52644	52774	52913	53044	53322	53592	53862	54131	54401	54680	54949	55219	55489
200	52085	52215	52355	52486	52625	52765	52896	53035	53166	53445	53715	53986	54256	54526	54805	55076	55346	55616
400	52204	52335	52475	52606	52746	52886	53017	53157	53288	53567	53838	54109	54380	54651	54931	55202	55473	55744
600	52323	52455	52595	52726	52867	53007	53138	53278	53410	53690	53962	54233	54505	54776	55057	55328	55600	55871
800	52443	52575	52715	52847	52987	53128	53259	53400	53532	53813	54085	54357	54629	54901	55182	55454	55727	55999
88000	52562	52694	52835	52967	53108	53249	53381	53522	53654	53935	54208	54481	54754	55026	55308	55581	55854	56126
200	52682	52814	52955	53088	53229	53370	53502	53643	53776	54058	54331	54605	54878	55151	55434	55707	55981	56254
400	52801	52934	53075	53208	53349	53491	53623	53765	53897	54180	54454	54728	55002	55277	55559	55833	56107	56382
600	52921	53054	53195	53328	53470	53612	53745	53887	54019	54303	54578	54852	55127	55402	55685	55960	56234	56509
800	53040	53173	53316	53449	53591	53733	53866	54008	54141	54426	54701	54976	55251	55527	55811	56086	56361	56637
89000	53160	53293	53436	53569	53712	53854	53987	54130	54263	54548	54824	55100	55376	55652	55937	56212	56488	56764
200	53279	53413	53556	53689	53832	53975	54109	54251	54385	54671	54947	55224	55500	55777	56062	56339	56615	56892
400	53399	53533	53676	53810	53953	54096	54230	54373	54507	54793	55070	55348	55625	55902	56188	56465	56742	57019
600	53518	53652	53796	53930	54074	54217	54351	54495	54629	54916	55194	55471	55749	56027	56314	56591	56869	57147
800	53638	53772	53916	54051	54196	54338	54473	54616	54751	55038	55317	55595	55874	56152	56439	56718	56996	57274
90000	53757	53892	54036	54171	54315	54459	54594	54738	54873	55161	55440	55719	55998	56277	56565	56844	57123	57402
200	53876	54012	54156	54291	54436	54580	54715	54860	54995	55284	55563	55843	56122	56402	56691	56970	57250	57530
400	53996	54132	54276	54412	54556	54701	54837	54981	55117	55406	55686	55967	56247	56527	56816	57097	57377	57657
600	54115	54251	54396	54532	54677	54822	54958	55103	55239	55529	55810	56090	56371	56652	56942	57223	57504	57785
800	54235	54371	54516	54653	54798	54943	55079	55225	55361	55651	55933	56214	56496	56777	57068	57349	57631	57912
91000	54354	54491	54636	54773	54919	55064	55201	55346	55483	55774	56056	56338	56620	56902	57194	57476	57758	58040
200	54474	54611	54756	54893	55039	55185	55322	55468	55605	55896	56179	56462	56745	57027	57319	57602	57885	58167
400	54593	54730	54877	55014	55160	55306	55443	55589	55727	56019	56302	56586	56869	57152	57445	57728	58012	58295
600	54713	54850	54997	55134	55281	55427	55565	55711	55849	56142	56426	56710	56994	57277	57571	57855	58139	58422
800	54832	54970	55117	55254	55401	55549	55686	55833	55970	56264	56549	56833	57118	57403	57696	57981	58265	58550
92000	54952	55090	55237	55375	55522	55669	55807	55954	56092	56387	56672	56957	57242	57528	57822	58107	58392	58678
200	55071	55209	55357	55495	55643	55790	55929	56076	56214	56509	56795	57081	57367	57653	57948	58234	58519	58805
400	55191	55329	55477	55616	55763	55911	56050	56198	56336	56632	56918	57205	57491	57778	58073	58360	58646	58933
600	55310	55449	55597	55736	55884	56032	56171	56319	56458	56755	57042	57329	57616	57903	58199	58486	58773	59060
800	55429	55569	55717	55856	56005	56153	56292	56441	56580	56877	57165	57452	57740	58028	58325	58612	58900	59188
93000	55549	55688	55837	55977	56126	56274	56414	56563	56702	57000	57288	57576	57865	58153	58451	58739	59027	59315
200		55808	55957	56097	56246	56395	56535	56684	56824	57122	57411	57700	57989	58278	58576	58865	59154	59443
400		55928	56077	56217	56367	56516	56656	56806	56946	57245	57534	57824	58113	58403	58702	58991	59281	59571
600		56048	56197	56338	56488	56637	56778	56928	57068	57367	57658	57948	58238	58528	58828	59118	59406	59698
800		56167	56318	56458	56608	56758	56899	57049	57190	57490	57781	58072	58362	58653	58953	59244	59535	59826

CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																
	8 % MAC (597.3)	9 % MAC (598.8)	10 % MAC (600.4)	11 % MAC (601.9)	12 % MAC (603.5)	13 % MAC (605.1)	14 % MAC (606.6)	15 % MAC (608.2)	16 % MAC (609.7)	18 % MAC (612.9)	20 % MAC (616.0)	22 % MAC (619.1)	24 % MAC (622.2)	26 % MAC (625.3)	28 % MAC (628.5)	30 % MAC (631.6)	32 % MAC (634.7)	34 % MAC (637.8)
94000		56287	56438	56579	56729	56879	57020	57171	57312	57613	57904	58195	58487	56778	59079	59370	59662	59953
200		56407	56558	56699	56850	57000	57142	57292	57434	57735	58027	58319	58611	58903	59205	59497	59789	60081
400		56527	56678	56819	56970	57121	57263	57414	57556	57858	58150	58443	58736	59028	59330	59623	59916	60208
600		56646	56798	56940	57091	57242	57384	57536	57678	57980	58274	58567	58860	59153	59456	59749	60043	60336
800		56766	56918	57060	57212	57363	57506	57657	57800	58103	58397	58691	58985	59278	59582	59876	60170	60463
96000		56886	57038	57181	57333	57485	57627	57779	57922	58226	58520	58815	59109	59404	59708	60002	60297	60591
200		57006	57158	57301	57453	57606	57748	57901	58043	58348	58643	58938	59233	59529	59833	60128	60423	60719
400		57126	57278	57421	57574	57727	57870	58022	58165	58471	58766	59062	59358	59654	59959	60255	60550	60846
600		57245	57398	57542	57695	57848	57991	58144	58287	58593	58890	59186	59482	59779	60085	60381	60677	60974
800		57365	57518	57662	57815	57969	58112	58266	58409	58716	59013	59310	59607	59904	60210	60507	60804	61101
96000		57485	57638	57782	57936	58090	58234	58387	58531	58838	59136	59434	59731	60029	60336	60634	60931	61229
200		57605	57758	57903	58057	58211	58355	58509	58653	58961	59259	59557	59856	60154	60462	60760	61058	61356
400		57724	57879	58023	58177	58332	58476	58630	58775	59084	59382	59681	59980	60279	60587	60886	61185	61484
600		57844	57999	58144	58298	58453	58598	58752	58897	59206	59506	59805	60105	60404	60713	61013	61312	61611
800		57964	58119	58264	58419	58574	58719	58874	59019	59329	59629	59929	60229	60529	60839	61139	61439	61739
97000		58084	58239	58384	58540	58695	58840	58995	59141	59451	59752	60053	60353	60654	60965	61265	61566	61867
200		58203	58358	58505	58660	58816	58962	59117	59263	59574	59875	60177	60478	60779	61090	61392	61693	61994
400		58323	58479	58625	58781	58937	59083	59239	59385	59696	59998	60300	60602	60904	61216	61518	61820	62122
600		58443	58599	58745	58902	59056	59204	59360	59507	59819	60122	60424	60727	61029	61342	61644	61947	62249
800		58563	58719	58866	59022	59179	59325	59482	59629	59942	60245	60546	60851	61154	61467	61770	62074	62377
98000		58682	58839	58986	59143	59300	59447	59604	59751	60064	60368	60672	60976	61279	61593	61897	62201	62504
200		58802	58959	59107	59264	59421	59568	59725	59873	60187	60491	60795	61100	61404	61719	62023	62328	62632
400		58922	59079	59227	59384	59542	59689	59847	59994	60309	60614	60919	61224	61530	61844	62149	62454	62760
600			59199	59347	59505	59663	59811	59969	60116	60432	60736	61043	61349	61655	61970	62276	62581	62887
800			59320	59468	59626	59784	59932	60090	60236	60555	60861	61167	61473	61780	62096	62402	62708	63015
99000			59440	59588	59747	59905	60053	60212	60360	60677	60984	61291	61598	61905	62222	62528	62835	63142
200			59560	59708	59867	60026	60175	60333	60482	60800	61107	61415	61722	62030	62347	62655	62962	63270
400			59680	59829	59988	60147	60296	60455	60604	60922	61230	61539	61847	62155	62473	62781	63089	63397
600			59800	59949	60109	60268	60417	60577	60726	61045	61354	61662	61971	62280	62599	62907	63216	63525
800			59920	60070	60229	60389	60539	60698	60848	61167	61477	61786	62096	62405	62724	63034	63343	63652
100000			60040	60190	60350	60510	60660	60820	60970	61290	61600	61910	62220	62530	62850	63160	63470	63780
200			60160	60310	60471	60631	60761	60942	61092	61413	61723	62034	62344	62655	62976	63286	63597	63908
400			60280	60431	60591	60752	60903	61063	61214	61535	61846	62158	62469	62780	63101	63413	63724	64035
600			60400	60551	60712	60873	61024	61185	61336	61658	61970	62281	62593	62905	63227	63539	63851	64163
800			60520	60672	60833	60994	61145	61307	61458	61780	62093	62405	62718	63030	63353	63665	63978	64290
101000			60640	60792	60954	61115	61267	61428	61580	61903	62216	62529	62842	63155	63479	63792	64105	64418
200			60760	60912	61074	61236	61388	61550	61702	62025	62339	62653	62967	63280	63604	63918	64232	64545
400			60881	61033	61195	61357	61509	61671	61824	62148	62462	62777	63091	63405	63730	64044	64359	64673
600			61001	61153	61315	61478	61631	61793	61946	62271	62586	62901	63216	63530	63856	64171	64486	64800
800			61121	61273	61436	61599	61752	61915	62067	62393	62709	63024	63340	63656	63981	64297	64612	64928
102000			61241	61394	61557	61720	61873	62036	62189	62516	62832	63146	63464	63781	64107	64423	64739	65056
200			61361	61514	61678	61841	61995	62158	62311	62636	62955	63272	63589	63906	64233	64550	64866	65183
400			61481	61635	61798	61962	62116	62280	62433	62761	63078	63396	63713	64031	64358	64676	64993	65311
600			61601	61755	61919	62083	62237	62401	62555	62886	63202	63520	63838	64156	64484	64802	65120	65438
800			61721	61875	62040	62204	62358	62523	62677	63006	63325	63643	63962	64281	64610	64928	65247	65566
103000			61841	61996	62161	62325	62480	62645	62799	63129	63448	63767	64087	64406	64736	65055	65374	65693
200			61961	62116	62281	62446	62601	62766	62921	63251	63571	63891	64211	64531	64861	65181	65501	65821
400			62081	62236	62402	62567	62722	62888	63043	63374	63694	64015	64335	64656	64987	65307	65628	65949
600			62201	62357	62523	62686	62844	63010	63165	63496	63818	64139	64460	64781	65113	65434	65755	66076
800			62322	62477	62643	62809	62965	63131	63287	63619	63941	64263	64584	64906	65238	65560	65882	66204
104000			62442	62598	62764	62930	63086	63253	63409	63742	64064	64386	64709	65031	65364	65686	66009	66331
200			62562	62718	62885	63051	63208	63374	63531	63864	64187	64510	64833	65156	65490	65813	66136	66459
400			62682	62836	63005	63172	63329	63496	63653	63987	64310	64634	64958	65281	65615	65939	66263	66586
600			62802	62959	63126	63293	63450	63618	63775	64109	64434	64758	65082	65406	65741	66065	66390	66714
800			62922	63079	63247	63414	63572	63739	63897	64232	64557	64882	65207	65531	65867	66192	66517	66841
105000			63042	63200	63368	63536	63693	63861	64019	64355	64680	65006	65331	65657	65993	66316	66644	66969
200			63162	63320	63488	63657	63814	63983	64140	64477	64803	65129	65455	65782	66118	66444	66770	67097
400			63282	63440	63609	63773	63936	64104	64262	64600	64926	65253	65580	65907	66244	66571	66897	67224
600			63402	63561	63730	63893	64057	64226	64384	64722	65050	65377	65704	66032	66370	66697	67024	67352
800			63522	63681	63850	64070	64178	64348	64506	64845	65173	65501	65829	66157	66495	66823	67151	67479
106000			63642	63801	63971	64141	64300	64469	64628	64967	65296	65625	65953	66282	66621	66950	67278	67607
200			63762	63922	64092	64262	64421	64591	64750	65090	65419	65746	66078	66407	66747	67076	67405	67734
400			63883	64042	64212	64383	64542	64712	64872	65213	65542	65872	66202	66532	66872	67202	67532	67862
600			64003	64163	64333	64504	64664	64834	64994	65335	65666	65996	66327	66657	66998	67329	67659	67989
800			64123	64283	64454	64625	64785	64956	65116	65458	65789	66120	66451	66782	67124	67454	67786	68117
107000			64243	64403	64575	64746	64906	65077	65238	65580	65912	66244	66575	66907	67250	67581	67913	68245
200			64363	64524	64695	64867	65028	65199	65360	65703	66035	66368	66700	67032	67375	67706	68040	68372
400			64483	64644	64816	64988	65149	65321	65482	65825	66158	66491	66824	67157	67501	67834	68167	68500
600				64764	64937	65109	65270	65442	65604	65946	66282	66615	66949	67282	67627	67960	68294	68627
800				64885	65057	65230	65391	65564	65726	66071	66405	66739	67073	67407	67752	68086	68421	68755
108000				65005	65178	65351	65513	65686	65848	66193	66528	66863	67196	67532	67878	68213	68548	68882
200				65126	65299	65472	65634	65807	65970	66316	66651	66987	67322	67657	68004	68339	68675	69010
400				65246	65419	65593	65755	65929	66091	66438	66774	67110	67446	67783	68129	68465	68801	69138
600				65366	65540	65714	65877	66051	66213	66561	66898	67234	67571	67908	68255	68592	68928	69265
800				65487	65661	65835	65998	66172	66335	66684	67021	67358	67695	68033	68381	68718	69055	69393
109000				65607	65782	65955	66119	66294	66457	66806	67144	67482	67820	68158	68507	68844	69182	69520
200				65727	65902	66077	66241	66415	66579	66929	67267	67606	67944	68283	68632	68971	69309	69648
400				65848	66023	66198	66362	66537	66701	67051	67390	67730	68069	68408	68758	69097	69436	69775
600				65968	66144	66319	66483	66659	66823	67174	67514	67853	68193	68533	68884	69223	69563	69903
800				66089	66264	66440	66605	66780	66945	67296	67637	67977	68318	68658	69009	69350	69690	70030
110000				66209	66385	66561	66726	66902	67067	67419	67760	68101	68442	68783	69135	69476	69817	70158
200				66329	66506	66682	66847	67024	67189	67542	67883	68225	68566	68908	69261	69602	69944	70286
400				66450	66626	66803	66969	67145	67311	67664	68006	68349	68691	69033	69386	69729	70071	70413
600				66570	66747	66924	67090	67267	67433	67787	68130	68472	68815	69158	69512	69855	70198	70541
800				66691	66868	67045	67211	67369	67555	67909	68253	68596	68940	69283	69638	69981	70325	70668
111000				66811	66989	67166	67333	67510	67677	68032	68376	68720	69064	69408	69764	70108	70452	70796
200				66931	67109	67287	67454	67632	67799	68154	68499	68844	69189	69533	69889	70234	70579	70923
400				67052	67230	67408	67575	67753	67921	68277	68622	68968	69313	69658	70015	70360	70706	71051
600				67172	67351	67529	67697	67875	68043	68400	68746	69092	69438	69783	70141	70487	70833	71178
800				67292	67471	67650	67818	67997	68164	68522	68869	69215	69562	69909	70266	70613	70959	71306
112000				67413	67592	67771	67939	68118	68286	68645	68992	69339	69686	70034	70392	70739	71086	71434
200				67533	67713	67892	68061	68240	68408	68767	69115	69463	69811	70159	70518	70866	71213	71561
400				67654	67833	68013	68182	68362	68530	68890	69238	69587	69935	70284	70643	70992	71340	71689
600				67774	67954	68134	68303	68483	68652	69013	69362	69711	70060	70409	70769	71118	71467	71816
800				67894	68075	68255	68424	68605	68774	69135	69485	69834	70184	70534	70895	71244	71594	71944

CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																
	8% MAC (597.3)	9% MAC (598.8)	10% MAC (600.4)	11% MAC (601.9)	12% MAC (603.5)	13% MAC (605.1)	14% MAC (606.6)	15% MAC (608.2)	16% MAC (609.7)	18% MAC (612.9)	20% MAC (616.0)	22% MAC (619.1)	24% MAC (622.2)	26% MAC (625.3)	28% MAC (628.5)	30% MAC (631.6)	32% MAC (634.7)	34% MAC (637.8)
113000					68196	68376	68546	88727	68896	69258	69806	69958	70309	70859	71021	71371	71721	72071
200					68316	68497	68667	88848	69018	69380	69731	70082	70433	70784	71146	71497	71848	72199
400					68437	68618	68788	88970	69140	69503	69854	70206	70557	70909	71272	71623	71975	72327
600					68558	68739	68910	69092	69262	69625	69978	70330	70682	71034	71398	71750	72102	72454
800					68678	68860	69031	69213	69384	69748	70101	70454	70806	71159	71523	71876	72229	72582
114000					68799	68981	69152	89335	69506	69871	70224	70577	70931	71284	71649	72002	72356	72709
200					68920	69102	69274	89456	69628	69993	70347	70701	71055	71409	71775	72129	72483	72637
400					69040	69223	69395	89578	69750	70116	70470	70825	71180	71534	71900	72255	72610	72964
800						69344	69516	69700	69872	70238	70594	70949	71304	71659	72026	72381	72737	73092
800						69465	69638	69821	69994	70361	70717	71073	71429	71784	72152	72508	72864	73219
115000						69587	69759	69943	70116	70484	70840	71197	71553	71910	72278	72634	72991	73347
200						69708	69880	70065	70237	70606	70963	71320	71877	72035	72403	72760	73117	73475
400						69829	70002	70186	70359	70729	71086	71444	71802	72160	72529	72887	73244	73602
600						69950	70123	70308	70481	70851	71210	71568	71926	72285	72655	73013	73371	73730
800						70071	70244	70430	70603	70974	71333	71692	72051	72410	72780	73139	73498	73857
118000						70192	70366	70551	70725	71096	71456	71816	72175	72535	72906	73266	73625	73985
200						70313	70487	70673	70847	71219	71579	71939	72300	72660	73032	73392	73752	74112
400						70434	70608	70794	70969	71342	71702	72063	72424	72785	73157	73518	73879	74240
600						70555	70730	70916	71091	71464	71826	72187	72549	72910	73283	73645	74006	74367
800						70676	70851	71038	71213	71587	71949	72311	72873	73035	73409	73771	74133	74495
117000						70797	70972	71159	71335	71709	72072	72435	72797	73160	73535	73897	74260	74623
200						70918	71094	71281	71457	71832	72195	72559	72922	73285	73660	74024	74387	74750
400						71039	71215	71403	71579	71954	72318	72682	73046	73410	73786	74150	74514	74878
600						71160	71336	71524	71701	72077	72442	72806	73171	73535	73912	74276	74641	75005
800						71281	71457	71646	71823	72200	72565	72930	73295	73660	74037	74402	74768	75133
118000						71407	71579	71768	71945	72322	72688	73054	73420	73785	74163	74529	74895	75260
200						71523	71700	71889	72067	72445	72811	73176	73544	73910	74289	74655	75022	75388
400						71644	71821	72011	72188	72567	72934	73301	73668	74036	74414	74781	75148	75516
600						71765	71943	72133	72310	72690	73058	73425	73793	74161	74540	74908	75275	75643
800						71886	72064	72254	72432	72813	73181	73549	73917	74266	74666	75034	75402	75771
119000						72007	72185	72376	72554	72935	73304	73673	74042	74411	74792	75160	75529	75898
200						72128	72307	72497	72676	73056	73477	73797	74166	74536	74917	75287	75656	76026
400						72249	72428	72619	72798	73180	73550	73921	74291	74661	75043	75413	75783	76153
600						72370	72549	72741	72920	73303	73674	74044	74415	74786	75169	75539	75910	76281
800						72491	72671	72862	73042	73425	73797	74168	74540	74911	75294	75666	76037	76408
120000							72792	72984	73164	73548	73920	74292	74664	75036	75420	75792	76164	76536
200							72913	73106	73286	73671	74043	74416	74788	75161	75546	75918	76291	76664
400							73035	73227	73408	73793	74166	74540	74913	75286	75671	76045	76418	76791
800							73156	73349	73530	73916	74290	74663	75037	75411	75797	78171	76545	76919
800							73277	73471	73652	74038	74413	74787	75162	75536	75923	76297	76672	77046
121000							73399	73592	73774	74161	74536	74911	75286	75661	76049	76424	76799	77174
200							73520	73714	73896	74283	74659	75035	75411	75786	76174	76550	76926	77301
400							73641	73835	74018	74406	74782	75159	75535	75911	76300	76676	77053	77429
600							73763	73957	74140	74529	74906	75283	75660	76036	76426	76803	77180	77556
800							73884	74079	74261	74651	75029	75406	75784	76162	76551	76929	77306	77684
122000							74005	74200	74383	74774	75152	75530	75908	76287	76877	77055	77432	77812
200							74127	74322	74505	74896	75275	75654	76033	76412	76803	77182	77560	77939
400							74248	74444	74627	75019	75398	75778	76157	76537	76928	77308	77687	78067
600							74369	74565	74749	75142	75522	75902	78282	76662	77054	77434	77814	78194
800							74490	74687	74871	75264	75645	76025	76406	76787	77180	77560	77941	78322
123000							74612	74609	74993	75387	75766	76149	76531	78912	77306	77687	78068	78449
200							74733	74930	75115	75509	75891	76273	76655	77037	77431	77813	78195	78577
400							74854	75057	75237	75632	76014	76397	76779	77162	77557	77939	78322	78705
600							74976	75174	75359	75754	76138	76521	76904	77287	77683	78066	78449	78832
800							75097	75295	75481	75877	76261	76645	77028	77412	77808	78192	78576	78960
124000							75218	75417	75603	76000	76384	76768	77153	77537	77934	78318	78703	79087
200							75340	75538	75725	76122	76507	76892	77277	77662	78060	78445	78830	79215
400							75461	75660	75847	76245	76630	77016	77402	77787	78185	78571	78957	79342
600							75582	75782	75969	76367	76754	77140	77526	77912	78311	78697	79084	79470
800							75704	75903	76091	76490	76877	77264	77651	78037	78437	78824	79211	79597
125000							75825	76025	76213	76613	77000	77386	77775	78163	78563	78950	79338	79725
200								76147	76334	76735	77123	77511	77899	78288	78688	79076	79464	79853
400								76268	76456	76858	77246	77635	78024	78413	78814	79203	79591	79980
600								76390	76578	76980	77370	77759	78148	.8536	78940	79329	79716	80108
800								76512	76700	77103	77493	77883	78273	78663	79065	79455	79845	80235
126000								76633	76822	77225	77616	78007	78397	78788	79191	79582	79972	80363
200								76755	76944	77346	77739	78130	78522	78913	79317	79708	80099	80490
400								76876	77066	77471	77862	78254	78646	79038	79442	79834	80226	80618
600								76998	77168	77593	77986	78378	78771	79163	79568	79961	80353	80745
800								77120	77310	77716	78109	78502	78895	79266	79694	80067	80480	80873
127000								77241	77432	77838	78232	78626	79019	79413	79820	80213	80607	81001
200								77363	77554	77961	78355	78750	79144	79538	79945	80340	80734	81128
400								77485	77676	78083	78478	78873	79268	79663	80071	80466	80861	81256
600								77606	77798	78206	78602	78997	79393	79788	80197	80592	80988	81383
800								77778	77920	76329	78725	79121	79517	79913	80322	80718	81115	81511
128000								77850	78042	78451	78848	79245	79642	80038	80448	80845	81242	81638
200								77971	78164	78574	78971	79369	79766	80163	80574	80971	81369	81766
400								78093	78265	78696	79094	79492	79890	80289	80699	81097	81495	81894
600								78215	78407	78819	79218	79616	80015	80414	80825	81224	81622	82021
800								78336	78529	78942	79341	79740	80139	80539	80951	81350	81749	82149
129000								76458	78651	79064	79464	79664	80264	80664	81077	81476	81876	82276
200								78579	78773	79187	79587	79988	80388	80769	81202	81603	82003	82404
400								78701	78695	79309	79710	80112	80513	80914	81328	81729	82130	82531
600								76823	79017	79432	79834	80235	80637	81039	81454	81855	82257	82659
800								78944	79139	79556	79957	80359	80762	81164	81579	81962	82384	82786
130000								79066	79261	79677	80080	80483	80666	81269	81705	82108	82511	82914
200								79188	79383	79800	80203	80607	81010	81414	81831	82234	82638	83042
400								79309	79505	79922	80326	80731	81135	81539	81956	82361	82765	83169
600								79431	79627	80045	80450	80854	81259	81664	82082	82487	82892	83297
800								79553	79749	80167	80573	80978	81364	81769	82208	82613	83019	83424
131000								79674	79871	80290	80696	81102	81508	81914	82334	82740	83146	83552
200								79796	79993	80412	80819	81226	81633	82039	82459	82886	83273	83679
400								79917	80115	80535	80942	81350	81757	82164	82585	82992	83400	83807
600								80039	80237	80658	81066	81474	81662	82289	82711	63119	83527	83934
800								60161	80358	80780	81189	81597	82006	82415	82836	83245	83653	84062

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CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																
	8 % MAC (597.3)	9 % MAC (598.8)	10 % MAC (600.4)	11 % MAC (601.9)	12 % MAC (603.5)	13 % MAC (605.1)	14 % MAC (606.6)	15 % MAC (608.2)	16 % MAC (609.7)	18 % MAC (612.9)	20 % MAC (616.0)	22 % MAC (619.1)	24 % MAC (622.4)	26 % MAC (625.3)	28 % MAC (628.5)	30 % MAC (631.6)	32 % MAC (634.7)	34 % MAC (637.8)
132000								80282	80480	80903	81312	81721	82130	82540	82962	83371	83780	84190
200								80404	80602	81025	81435	81845	82255	82885	83088	83498	83907	84317
400								80526	80724	81148	81558	81969	82379	82790	83213	83624	84034	84445
600								80847	80846	81271	81682	82093	82504	82915	83339	83750	84161	84572
800								80769	80968	81393	81805	82216	82628	83040	83465	83876	84288	84700
133000								80891	81090	81516	81928	82340	82753	83165	83591	84003	84415	84827
200								81012	81212	81638	82051	82464	82877	83290	83716	84129	84542	84955
400								81134	81334	81761	82174	82588	83001	83415	83842	84255	84669	85083
600								81256	81456	81883	82298	82712	83126	83540	83968	84382	84796	85210
800								81377	81578	82006	82421	82838	83250	83865	84093	84508	84923	85338
134000								81499	81700	82129	82544	82959	83375	83790	84219	84634	85050	85465
200								81620	81822	82251	82667	83083	83499	83915	84345	84761	85177	85593
400								81742	81944	82374	82790	83207	83624	84040	84470	84887	85304	85720
600								81864	82066	82496	82914	83331	83748	84165	84596	85013	85431	85848
800								81985	82188	82619	83037	83455	83873	84290	84722	85140	85558	85975
135000								82107	82310	82742	83160	83579	83997	84416	84848	85266	85685	86103
200								82229	82431	82864	83283	83702	84121	84541	84973	85392	85811	86231
400								82350	82553	82987	83408	83826	84245	84666	85099	85519	85938	86358
600								82472	82675	83109	83530	83950	84370	84791	85225	85645	86065	86486
800								82594	82797	83232	83653	84074	84495	84916	85350	85771	86192	86613
136000								82715	82919	83354	83776	84198	84619	85041	85476	85898	86319	86741
200								82837	83041	83477	83899	84321	84744	85168	85602	86024	86446	86868
400								82958	83163	83600	84022	84445	84868	85291	85727	86150	86573	86996
600								83080	83285	83722	84146	84569	84993	85416	85853	86277	86700	87123
800								83202	83407	83845	84269	84693	85117	85541	85979	86403	86827	87251
137000								83323	83529	83967	84392	84817	85241	85666	86105	86529	86954	87379
200								83445	83651	84090	84515	84941	85366	85791	86230	86658	87081	87506
400								83587	83773	84212	84638	85064	85490	85916	86356	86782	87208	87634
600								83688	83895	84335	84762	85188	85615	86041	86482	86908	87335	87761
800								83810	84017	84458	84885	85312	85739	86166	86607	87034	87482	87889
138000								83932	84139	84580	85008	85436	85864	86291	86733	87161	87589	88016
200								84053	84261	84703	85131	85560	85988	86416	86859	87287	87716	88144
400								84175	84382	84825	85254	85683	86112	86542	86984	87413	87842	88272
600								84297	84504	84948	85378	85807	86237	86667	87110	87540	87969	88399
800								84418	84626	85071	85501	85931	86361	86792	87236	87666	88098	88527
139000								84540	84748	85194	85624	86055	86486	86917	87362	87792	88223	88654
200								84661	84870	85318	85747	86179	86610	87042	87487	87919	88350	88782
400								84783	84992	85442	85870	86303	86735	87167	87613	88045	88477	88909
600								84905	85114	85565	85994	86426	86859	87292	87739	88171	88604	89037
800								85026	85236	85688	86117	86550	86984	87417	87864	88298	88731	89164
140000								85148	85358	85812	86240	86674	87108	87542	87990	88424	88858	89292
200								85270	85480	85935	86363	86798	87232	87667	88116	88550	88985	89420
400								85391	85602	86059	86486	86922	87357	87792	88241	88677	89112	89547
600								85513	85724	86182	86610	87045	87481	87917	88367	88803	89239	89675
800								85635	85846	86306	86733	87169	87605	88042	88493	88929	89366	89802
141000								85756	85968	86429	86856	87293	87730	88167	88619	89056	89493	89930
200								85878	86090	86551	86979	87417	87855	88292	88744	89182	89620	90057
400								85999	86212	86674	87102	87541	87979	88417	88870	89308	89747	90185
600								88121	86334	86797	87228	87665	88104	88542	88996	89435	89874	90312
800								88243	86455	86919	87349	87788	88228	88668	89121	89561	90000	90440
142000								86364	86577	87032	87472	87912	88352	88793	89247	89687	90127	90568
200								86486	86699	87154	87595	88036	88477	88918	89373	89814	90254	90695
400								86608	86821	87277	87718	88160	88601	89043	89498	89940	90381	90823
600								86729	86943	87400	87842	88284	88726	89168	89624	90066	90508	90950
800								86851	87065	87522	87965	88407	88850	89293	89750	90192	90635	91078
143000								86973	87187	87645	88088	88531	88975	89418	89876	90319	90762	91205
200								87094	87309	87767	88211	88655	89099	89543	90001	90445	90889	91333
400								87216	87431	87890	88334	88779	89223	89668	90127	90571	91016	91461
600								87338	87553	88012	88456	88903	89346	89793	90253	90698	91143	91588
800								87459	87675	88135	88581	89027	89472	89918	90378	90824	91270	91716
144000								87581	87797	88258	88704	89150	89597	90043	90504	90950	91397	91843
200								87702	87919	88380	88827	89274	89721	90168	90630	91077	91524	91971
400								87824	88041	88503	88950	89398	89846	90293	90755	91203	91651	92098
600								87946	88163	88625	89074	89522	89970	90418	90881	91329	91778	92226
800								88067	88285	88748	89197	89646	90095	90543	91007	91456	91905	92353
145000								88189	88407	88871	89320	89770	90219	90669	91133	91582	92032	92481
200									88574	88993	89443	89893	90343	90794	91258	91708	92158	92609
400									88740	89116	89566	90017	90468	90919	91384	91835	92285	92736
600									88777	89238	89690	90141	90592	91044	91510	91961	92412	92864
800									88891	89361	89813	90265	90717	91169	91635	92087	92539	92991
146000									89016	89483	89936	90389	90841	91294	91761	92214	92666	93119
200									89138	89606	90059	90512	90966	91419	91887	92340	92793	93246
400									89260	89729	90182	90636	91090	91544	92012	92466	92920	93374
600									89382	89851	90308	90760	91215	91669	92138	92593	93047	93501
800									89504	89974	90429	90884	91339	91794	92264	92719	93174	93629
147000									89626	90096	90552	91008	91463	91919	92390	92845	93301	93757
200									89748	90219	90675	91132	91588	92044	92515	92972	93428	93884
400									89870	90341	90798	91255	91712	92169	92641	93098	93555	94012
600									89992	90464	90922	91379	91837	92294	92767	93224	93682	94139
800									90114	90587	91045	91503	91981	92419	92892	93350	93809	94267
148000									90236	90709	91188	91627	92086	92544	93018	93477	93936	94394
200									90358	90832	91291	91751	92210	92669	93144	93603	94063	94522
400									90479	90954	91414	91874	92334	92795	93269	93729	94189	94650
600									90601	91077	91538	91998	92459	92920	93395	93856	94316	94777
800									90723	91200	91661	92122	92583	93045	93521	93982	94443	94905
149000									90845	91322	91784	92246	92708	93170	93647	94108	94570	95032
200									90967	91445	91907	92370	92832	93295	93772	94235	94697	95160
400									91089	91567	92030	92494	92957	93420	93898	94361	94824	95287
600									91211	91690	92154	92617	93081	93545	94024	94487	94951	95415
800									91333	91812	92277	92741	93206	93670	94149	94614	95078	95542
150000									91455	91935	92400	92865	93330	93795	94275	94740	95205	95670
200									91577	92058	92523	92989	93454	93920	94401	94868	95332	95798
400									91699	92180	92646	93113	93579	94045	94526	94993	95459	95925
600									91821	92303	92770	93236	93703	94170	94652	95119	95586	96053
800									91943	92425	92893	93360	93828	94295	94778	95245	95713	96180

CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																
	8% MAC (597.3)	9% MAC (598.8)	10% MAC (600.4)	11% MAC (601.9)	12% MAC (603.5)	13% MAC (605.1)	14% MAC (606.6)	15% MAC (608.2)	16% MAC (609.7)	18% MAC (612.9)	20% MAC (616.0)	22% MAC (619.1)	24% MAC (622.2)	26% MAC (625.3)	28% MAC (628.5)	30% MAC (631.6)	32% MAC (634.7)	34% MAC (637.8)
151000									92065	92548	93016	93484	93952	94420	94904	95372	95840	98308
200									92167	92670	93139	93608	94077	94545	95029	95498	95967	96435
400									92309	92793	93262	93732	94201	94670	95155	95624	96094	96563
600									92431	92916	93386	93856	94326	94795	95281	95751	96221	96690
800									92552	93038	93508	93979	94450	94921	95406	95877	96347	96818
152000									92874	93161	93632	94103	94574	95046	95532	96003	96474	96946
200									92796	93283	93755	94227	94699	95171	95658	96130	96601	97073
400									92918	93406	93878	94351	94823	95296	95783	96256	96726	97201
600									93040	93529	94002	94475	94948	95421	95909	96382	96855	97326
800									93162	93651	94125	94598	95072	95546	96035	96508	98982	97456
153000									93284	93774	94248	94722	95197	95671	96161	96635	97109	97583
200									93406	93896	94371	94845	95321	95796	96286	96761	97236	97711
400									93528	94019	94494	94970	95445	95921	96412	96887	97363	97839
600									93650	94141	94616	95094	95570	96046	96538	97014	97490	97966
800									93772	94264	94741	95218	95694	96171	96663	97140	97617	98094
154000									93894	94387	94864	95341	95819	96296	96789	97266	97744	98221
200									94016	94509	94987	95465	95943	96421	96915	97393	97871	98349
400									94138	94632	95110	95589	96068	96546	97040	97519	97998	98476
600									94260	94754	95234	95713	96192	96671	97166	97645	98125	98604
800									94382	94877	95357	95837	96317	96796	97292	97772	98252	98731
155000									94504	95000	95480	95981	96441	96922	97418	97898	98379	98859
200									94625	95122	95603	96084	96565	97047	97543	98024	98505	98987
400									94747	95245	95726	96208	96690	97172	97669	98151	98632	99114
600									94869	95367	95850	96332	96814	97297	97795	98277	98759	99242
800									94991	95490	95974	96456	96939	97422	97920	98403	98886	99369
156000									95113	95612	96096	96580	97063	97547	98048	98530	99013	99497
200									95235	95735	96219	96703	97188	97672	98172	98656	99140	99624
400									95357	95858	96342	96827	97312	97797	98297	98782	99267	99752
600									95479	95980	96465	96950	97437	97922	98423	98909	99394	99879
800									95601	96103	96589	97075	97561	98047	98549	99035	99521	100007
157000									95723	96225	96712	97199	97685	98172	98675	99161	99648	100135
200									95845	96348	96835	97323	97810	98297	98800	99288	99775	100262
400									95967	96470	96958	97446	97934	98422	98926	99414	99902	100390
600									96089	96593	97082	97570	98059	98547	99052	99540	100029	100517
800									96211	96716	97205	97694	98183	98672	99177	99666	100156	100645
158000									96333	96838	97328	97818	98308	98797	99303	99793	100283	100772
200									96455	96961	97451	97942	98432	98922	99429	99919	100410	100900
400									96576	97083	97574	98065	98556	99048	99554	100045	100536	101028
600									96698	97206	97696	98189	98681	99173	99680	100172	100663	101155
800									96820	97329	97821	98313	98805	99298	99806	100298	100790	101283
159000									96942	97451	97944	98437	98930	99423	99932	100424	100917	101410
200									97064	97574	98067	98561	99054	99548	100057	100551	101044	101538
400									97186	97696	98190	98685	99179	99673	100183	100677	101171	101665
600									97308	97819	98314	98808	99303	99798	100309	100803	101298	101793
800									97430	97941	98437	98932	99428	99923	100434	100930	101425	101920
160000									97552	98064	98560	99056	99552	100046	100560	101056	101552	102048
200									97674	98187	98683	99180	99676	100173	100686	101182	101679	102176
400									97796	98309	98806	99304	99801	100298	100811	101309	101806	102303
600									97918	98432	98930	99427	99925	100423	100937	101435	101933	102431
800									98040	98554	99053	99551	100050	100548	101063	101561	102060	102558
161000									98162	98677	99176	99675	100174	100673	101189	101688	102187	102686
200									98284	98799	99299	99799	100299	100798	101314	101814	102314	102813
400									98406	98922	99423	99923	100423	100923	101440	101940	102441	102941
600									98528	99045	99546	100047	100548	101048	101566	102067	102568	103068
800									98649	99167	99669	100172	100672	101174	101691	102193	102694	103196
162000									98771	99290	99792	100296	100796	101299	101817	102319	102821	103324
200									98893	99412	99915	100418	100921	101424	101943	102446	102948	103451
400									99015	99535	100038	100542	101045	101549	102068	102572	103075	103579
600									99137	99658	100162	100666	101170	101674	102194	102698	103202	103706
800									99259	99780	100285	100789	101294	101799	102320	102824	103329	103834
163000									99381	99903	100408	100913	101419	101924	102446	102951	103456	103961
200									99503	100025	100531	101037	101543	102049	102571	103077	103583	104089
400									99625	100148	100654	101161	101667	102174	102697	103203	103710	104217
600									99747	100270	100777	101285	101794	102299	102823	103330	103837	104344
800									99869	100393	100901	101409	101918	102424	102948	103456	103964	104472
164000									99991	100516	101024	101532	102041	102549	103074	103582	104091	104599
200									100113	100638	101147	101656	102165	102674	103200	103709	104218	104727
400									100235	100761	101270	101780	102290	102799	103325	103835	104345	104854
600									100357	100883	101394	101904	102414	102924	103451	103961	104472	104982
800									100479	101006	101517	102028	102539	103049	103577	104088	104599	105109
165000									100601	101129	101640	102152	102661	103175	103703	104214	104726	105237
200										101251	101763	102275	102787	103300	103828	104340	104852	105365
400										101374	101886	102399	102912	103425	103954	104467	104979	105492
600										101496	102010	102523	103036	103550	104080	104593	105106	105620
800										101619	102133	102647	103161	103675	104205	104719	105233	105747
166000										101741	102256	102771	103285	103800	104331	104846	105360	105875
200										101864	102379	102894	103410	103925	104457	104972	105487	106002
400										101987	102502	103018	103534	104050	104582	105098	105614	106130
600										102109	102626	103142	103659	104175	104708	105225	105741	106257
800										102232	102749	103266	103783	104300	104834	105351	105868	106385
167000										102354	102872	103390	103907	104425	104960	105477	105995	106513
200										102477	102995	103514	104032	104550	105085	105604	106122	106640
400										102599	103118	103637	104156	104675	105211	105730	106249	106768
600										102722	103242	103761	104281	104800	105337	105856	106376	106895
800										102845	103365	103885	104405	104925	105462	105982	106503	107023
168000										102967	103488	104009	104530	105050	105588	106109	106630	107150
200										103090	103611	104133	104654	105175	105714	106235	106757	107276
400										103212	103734	104256	104778	105301	105839	106361	106883	107406
600										103335	103858	104380	104903	105426	105965	106488	107010	107533
800										103458	103981	104504	105027	105551	106091	106614	107137	107661
169000										103560	104104	104628	105152	105676	106217	106740	107264	107788
200										103703	104227	104752	105276	105801	106342	106867	107391	107916
400										103825	104350	104876	105401	105926	106468	106993	107518	108043
600										103948	104474	104999	105525	106051	106594	107119	107645	108171
800										104070	104597	105123	105650	106178	106719	107246	107772	108298

CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																	
	8 % MAC (597.3)	9 % MAC (598.8)	10 % MAC (600.4)	11 % MAC (601.9)	12 % MAC (603.5)	13 % MAC (605.1)	14 % MAC (606.6)	15 % MAC (608.2)	16 % MAC (609.7)	18 % MAC (612.9)	20 % MAC (616.0)	22 % MAC (619.1)	24 % MAC (622.2)	26 % MAC (625.3)	28 % MAC (628.5)	30 % MAC (631.6)	32 % MAC (634.7)	34 % MAC (637.8)
170000										104193	104720	105247	105774	106301	106845	107372	107899	108426
200										104316	104843	105371	105698	106426	106971	107498	108026	108554
400										104438	104966	105495	106023	106551	107096	107625	108153	108681
600										104561	105090	105618	106147	106676	107222	107751	108280	108809
800										104683	105213	105742	106272	106801	107348	107677	108407	108936
171000										104806	105336	105866	106396	106926	107474	108004	108534	109064
200										104928	105459	105990	106521	107051	107599	108130	106661	109191
400										105051	105582	106114	106645	107176	107725	108256	108786	109319
600										105174	105706	106238	106770	107301	107851	108383	108915	109446
800										105296	105829	106361	106894	107427	107976	108509	109041	109574
172000										105419	105952	106485	107018	107552	108102	108635	109168	109702
200										105541	106075	106609	107143	107677	108228	106762	109295	109829
400										105664	106198	106733	107267	107802	108353	108886	109422	109957
600										105787	106322	106857	107392	107927	108479	109014	109549	110084
800										105909	106445	106980	107516	108052	108605	109140	109676	110212
173000										106032	106568	107104	107641	108177	106731	109267	109803	110339
200										106154	106691	107228	107765	106302	108856	109393	109930	110467
400										106277	106814	107352	107889	108427	108982	109519	110057	110595
600										106399	106938	107476	108014	108552	109108	109646	110184	110722
800										106522	107061	107600	108138	108677	109233	109772	110311	110850
174000										108645	107184	107723	108263	108802	109359	109898	110438	110977
200										106767	107307	107847	106367	106927	109485	110025	110565	111105
400										106890	107430	107971	108512	109052	109610	110151	110692	111232
600										107012	107554	108095	106636	109177	109736	110277	110819	111360
800										107135	107677	108219	108761	109302	109862	110404	110946	111487
175000										107256	107800	108343	106885	109426	109966	110530	111073	111615
200										107380	107923	108466	109009	109553	110113	110656	111199	111743
400										107503	108046	108590	109134	109678	110239	110783	111326	111870
600										107625	108170	108714	109258	109803	110365	110909	111453	111998
800										107746	108293	106636	109383	109928	110490	111035	111580	112125
176000										107870	108418	108962	109507	110053	110616	111182	111707	112253
200										107993	108539	109065	109632	110178	110742	111288	111834	112380
400										108116	106662	109209	109756	110303	110867	111414	111961	112508
600										106236	106786	109333	109881	110426	110993	111541	112088	112635
800										108361	108909	109457	110005	110553	111119	111667	112215	112763
177000										108483	109032	109581	110129	110676	111245	111793	112342	112891
200										106606	109155	103705	110254	110803	111370	111920	112469	113016
400										108726	109276	109626	110378	110928	111496	112046	112596	113146
600										106851	109402	109952	110503	111053	111622	112172	112723	113273
800										106974	109525	110076	110627	111178	111747	112298	112850	113401
178000										109096	109648	110200	110752	111307	111873	112425	112977	113528
200										109219	109771	110324	110876	111429	111999	112551	113104	113656
400										109341	109894	110447	111000	111553	112124	112877	113230	113784
600										109464	110016	110571	111125	111679	112250	112804	113357	113911
800										109567	110141	110695	111249	111804	112376	112930	113484	114039
179000										109709	110264	110819	111374	111929	112502	113056	113611	114166
200										109832	110367	110943	111498	112054	112627	113183	113738	114294
400										109954	110510	111067	111623	112179	112753	113309	113865	114421
600										110077	110634	111190	111747	112304	112879	113435	113992	114549
800										110199	110757	111314	111872	112429	113004	113562	114119	114676
180000										110322	110880	111436	111996	112554	113130	113688	114246	114804
200										110445	111003	111562	112120	112679	113256	113814	114373	114932
400										110567	111126	111686	112245	112804	113381	113941	114500	115059
600										110690	111250	111809	112369	112929	113507	114067	114627	115187
800										110812	111373	111933	112494	113054	113633	114193	114754	115314
181000										110935	111496	112057	112618	113179	113759	114320	114881	115442
200										111057	111619	112161	112743	113304	113884	114446	115008	115569
400										111180	111742	112305	112867	113429	114010	114572	115135	115697
600										111303	111866	112429	112992	113554	114136	114699	115262	115824
800										111425	111989	112552	113116	113680	114261	114825	115388	115952
182000										111548	112112	112676	113240	113805	114367	114951	115515	116080
200										111670	112235	112800	113365	113930	114513	115078	115642	116207
400										111793	112358	112924	113489	114055	114638	115204	115769	116335
600										111916	112482	113046	113614	114180	114764	115330	115896	116462
800										112038	112605	113171	113736	114305	114890	115456	116023	116590
183000										112161	112728	113295	113863	114430	115016	115583	116150	116717
200										112283	112851	113419	113987	114555	115141	115709	116277	116845
400										112406	112974	113543	114111	114680	115267	115835	116404	116973
600										112528	113098	113667	114236	114805	115393	115962	116531	117100
800										112651	113221	113791	114360	114930	115518	116086	116656	117228
184000										112774	113344	113914	114485	115055	115644	116214	116785	117355
200										112896	113467	114036	114609	115180	115770	116341	116912	117483
400										113019	113590	114162	114734	115305	115895	116467	117039	117610
600										113141	113714	114286	114858	115430	116021	116593	117166	117738
800										113264	113837	114410	114983	115555	116147	116720	117293	117865
185000										113387	113960	114534	115107	115681	116273	116846	117420	117993
200										113509	114083	114657	115231	115806	116396	116972	117546	118121
400										113632	114206	114781	115356	115931	116524	117099	117673	118248
600										113754	114330	114905	115480	116056	116650	117225	117800	118376
800										113877	114453	115029	115605	116181	116775	117351	117927	118503
186000										113999	114576	115153	115729	116306	116901	117478	118054	118631
200										114122	114699	115276	115854	116431	117027	117604	118181	118758
400										114245	114822	115400	115978	116556	117152	117730	118308	118886
600										114367	114946	115524	116103	116681	117278	117857	118435	119013
800										114490	115069	115646	116227	116806	117404	117983	118562	119141
187000										114612	115192	115772	116351	116931	117530	118109	118689	119269
200										114735	115315	115896	116476	117056	117655	118236	118816	119396
400										114857	115438	116019	116600	117181	117781	118362	118943	119524
600										114980	115562	116143	116725	117306	117907	118486	119070	119651
800										115103	115685	116267	116849	117431	118032	118614	119197	119779
188000										115225	115806	116391	116974	117556	118158	118741	119324	119906
200										115346	115931	116515	117098	117681	118284	118867	119451	120034
400											116054	116638	117222	117807	118409	118993	119577	120162
600											116178	116762	117347	117932	118535	119120	119704	120289
800											116301	116886	117471	118057	118661	119246	119831	120417

CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																	
	8 % MAC (597.3)	9 % MAC (598.8)	10 % MAC (600.4)	11 % MAC (601.9)	12 % MAC (603.5)	13 % MAC (605.1)	14 % MAC (606.6)	15 % MAC (608.2)	16 % MAC (609.7)	18 % MAC (612.9)	20 % MAC (616.0)	22 % MAC (619.1)	24 % MAC (622.2)	26 % MAC (625.3)	28 % MAC (628.5)	30 % MAC (631.6)	32 % MAC (634.7)	34 % MAC (637.8)
189000											116424	117010	117596	118182	118787	119372	119958	120544
200											116547	117134	117720	118307	118912	119499	120085	120672
400											116670	117258	117845	118432	119038	119625	120212	120799
800											116794	117381	117969	118557	119164	119751	120339	120927
600											116917	117505	118094	118682	119289	119878	120466	121054
190000											117040	117629	118218	118807	119415	120004	120593	121182
200											117163	117753	118342	118932	119541	120130	120720	121310
400											117286	117877	118467	119057	119666	120257	120847	121437
600											117410	118000	118591	119182	119792	120383	120974	121565
800											117533	118124	118716	119307	119918	120509	121101	121692
191000											117656	118248	118840	119432	120044	120636	121228	121820
200											117779	118372	118965	119557	120169	120762	121355	121947
400											117902	118496	119089	119682	120295	120888	121482	122075
600											118026	118620	119214	119807	120421	121015	121609	122202
800											118149	118743	119338	119933	120546	121141	121735	122330
192000											118272	118867	119462	120058	120672	121267	121862	122458
200											118395	118991	119587	120184	120798	121394	121983	122585
400											118518	119115	119711	120308	120923	121520	122116	122713
600											118642	119233	119835	120433	121043	121646	122243	122840
600											118765	119362	119960	120558	121175	121772	122370	122968
193000											118888	119486	120085	120683	121301	121899	122497	123095
200											119011	119610	120209	120808	121426	122025	122624	123223
400											119134	119734	120333	120933	121552	122151	122751	123351
600											119256	119858	120458	121058	121678	122276	122878	123478
600											119381	119982	120582	121183	121803	122404	123006	123606
194000											119504	120105	120707	121308	121929	122530	123132	123733
200											119627	120229	120831	121433	122055	122657	123259	123861
400											119750	120353	120956	121558	122180	122783	123386	123988
600											119874	120477	121080	121683	122306	122909	123513	124116
600											119997	120601	121205	121808	122432	123036	123640	124243
195000											120120	120725	121329	121934	122558	123162	123767	124371
200												120848	121453	122059	122683	123286	123893	124499
400												120972	121578	122184	122809	123415	124020	124626
600												121096	121702	122309	122935	123541	124147	124754
800												121220	121827	122434	123060	123667	124274	124881
196000												121344	121951	122559	123186	123794	124401	125009
200												121467	122076	122684	123312	123920	124528	125136
400												121591	122200	122809	123437	124046	124655	125264
600												121715	122325	122934	123563	124173	124782	125391
600												121839	122449	123059	123689	124299	124909	125519
197000												121963	122573	123184	123815	124425	125036	125647
200												122087	122698	123309	123940	124552	125163	125774
400												122210	122822	123434	124066	124678	125290	125902
600												122334	122947	123559	124192	124804	125417	126029
800												122458	123071	123684	124317	124930	125544	126157
196000												122582	123196	123809	124443	125057	125671	126284
200												122706	123320	123934	124569	125183	125798	126412
400												122829	123444	124060	124694	125309	125924	126540
600												122953	123569	124185	124820	125436	126051	126667
800												123077	123693	124310	124946	125562	126178	126795
199000												123201	123818	124435	125072	125688	126305	126922
200												123325	123942	124560	125197	125815	126432	127050
400												123449	124067	124685	125323	125941	126559	127177
600												123572	124191	124810	125449	126067	126686	127305
800												123696	124315	124935	125574	126194	126813	127432
200000												123820	124440	125060	125700	126320	126940	127560
200												123944	124564	125185	125826	126446	127067	127688
400												124068	124689	125310	125951	126573	127194	127815
800												124191	124813	125435	126077	126699	127321	127943
600												124315	124938	125560	126203	126825	127448	128070
201000												124439	125062	125685	126329	126952	127575	128198
200												124563	125187	125810	126454	127078	127702	128325
400												124687	125311	125935	126580	127204	127829	128453
600												124811	125436	126060	126706	127331	127956	128580
800													125560	126185	126831	127457	128082	128705
202000													125684	126311	126957	127583	128209	128836
200													125809	126436	127083	127710	128336	128963
400													125933	126561	127208	127836	128463	129091
600													126058	126686	127334	127962	128590	129218
800													126182	126811	127460	128088	128717	129346
203000													126307	126936	127586	128215	128844	129473
200													126431	127061	127711	128341	128971	129601
400													126556	127186	127837	128467	129096	129729
600													126680	127311	127963	128594	129225	129856
800													126804	127436	128088	128720	129352	129984
204000													126929	127561	128214	128846	129479	130111
200													127053	127686	128340	128973	129606	130239
400													127178	127811	128465	129099	129733	130366
800													127302	127936	128591	129225	129860	130494
600													127427	128061	128717	129352	129987	130621
205000													127551	128187	128843	129478	130114	130749
200													127675	128312	128968	129604	130240	130877
400													127800	128437	129094	129731	130367	131004
800													127924	128562	129220	129857	130494	131132
800													128049	128687	129345	129983	130621	131259
206000													128173	128812	129471	130110	130748	131387
200													298	128937	129597	130236	130875	131514
400													128422	129062	129722	130362	131002	131642
800													128547	129187	129848	130489	131129	131769
800													128671	129312	129974	130615	131256	131897
207000													128795	129437	130100	130741	131383	132025
200													128920	129562	130225	130868	131510	132152
400													129044	129687	130351	130994	131637	132280
800													129169	129812	130477	131120	131764	132407
800													129293	129937	130602	131246	131891	132535

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SEE PAGE 25 FOR NOTES

CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																
	8 % MAC (597.3)	9 % MAC (598.8)	10 % MAC (600.4)	11 % MAC (601.9)	12 % MAC (603.5)	13 % MAC (605.1)	14 % MAC (606.6)	15 % MAC (608.2)	16 % MAC (609.7)	18 % MAC (612.9)	20 % MAC (616.0)	22 % MAC (619.1)	24 % MAC (622.2)	26 % MAC (625.2)	28 % MAC (628.3)	30 % MAC (631.6)	32 % MAC (634.7)	34 % MAC (637.8)
208000													129418	130062	130728	131373	132018	132682
200													129542	130187	130854	131499	132145	132790
400														130313	130979	131625	132271	132918
600														130436	131105	131752	132398	133045
800														130563	131231	131876	132525	133173
209000														130688	131357	132004	132652	133300
200														130813	131482	132131	132779	133428
400														130938	131808	132257	132906	133555
600														131063	131734	132383	133033	133683
800														131188	131859	132510	133160	133810
210000														131313	131985	132636	133267	133938
200														131438	132111	132762	133418	134066
400														131563	132236	132889	133541	134193
600														131688	132362	133015	133666	134321
800														131813	132488	133141	133795	134448
211000														131936	132614	133268	133922	134576
200														132063	132739	133394	134049	134703
400														132188	132865	133520	134176	134831
600														132313	132991	133647	134303	134958
800														132439	133116	133773	134429	135066
212000														132564	133242	133899	134556	135214
200														132669	133368	134028	134683	135341
400														132614	133493	134152	134810	135469
600														132939	133819	134276	134937	135596
800														133064	133745	134404	135064	135724
213000														133169	133871	134531	135191	135851
200														133314	133996	134657	135316	135979
400														133439	134122	134763	135445	136107
600														133564	134248	134910	135572	136234
800														133689	134373	135036	135699	136362
214000														133814	134499	135162	135826	136469
200														133939	134625	135269	135953	136617
400														134064	134750	135415	136080	136744
600															134676	135541	136207	136872
800															135002	135666	136334	136999
215000															135128	135794	136461	137127
200															135253	135920	136587	137255
400															135379	136047	136714	137382
600															135505	136173	136841	137510
800															135630	136299	136968	137637
216000															135756	136426	137095	137765
200															135882	136552	137772	137892
400															136007	136678	137349	138020
600															136133	136805	137476	138147
800															136259	136931	137603	138275
217000															136365	137057	137730	138403
200															136510	137184	137857	138530
400															136636	137310	137984	138658
800															136762	137436	138111	138785
600															136887	137562	138238	138913
218000															137013	137689	138365	139040
200															137139	137815	138492	139168
400															137264	137941	138618	139296
600															137390	138068	138745	139423
800															137516	138194	138872	139551
219000															137642	138320	138999	139676
200															137767	138447	139126	139806
400															137893	138573	139253	139933
600															138019	138699	139380	140061
800															138144	138826	139507	140188
220000															138270	138952	139634	140316
200															138396	139078	139761	140444
400															138521	139205	139888	140571
600															138647	139331	140015	140699
800															138773	139457	140142	140826
221000															138899	139584	140269	140954

Moment Values listed in these columns should be compared with loading computations on Form "F" based on wheels down condition.

Loadings based on wheels down condition which fall within the limiting moments in these columns will be satisfactory when the Landing Gear is retracted.

See graph on Sheet 17 for airplanes complete Center of Gravity capabilities.

GROSS WEIGHT LIMIT - LANDING . . . . . POUNDS *

GROSS WEIGHT LIMIT - TAKEOFF (Taxi Condition Including ATO Charge and Water Injection Fluid) . . . . . POUNDS *

GROSS WEIGHT LIMIT - FLIGHT (ATO Charge and Water Injection Fluid Expended)

WITHOUT EXTERNAL TANKS . . . . . POUNDS *

WITH EXTERNAL TANKS . . . . . POUNDS *

* Service Activities shall insert, or substitute, current figures from latest applicable technical order covering operating restrictions.

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MISCELLANEOUS DATA

THE FOLLOWING ITEMS ARE INCLUDED IN BASIC WEIGHT OF THE AIRPLANE AND ARE LISTED ON CHART "A". THEIR PRESENCE IN THE AIRPLANE SHOULD BE ASCERTAINED PRIOR TO WEIGHING.

HYDRAULIC FLUID

ITEM	WEIGHT	MOMENT/1000
MAIN HYDRAULIC SYSTEM (20.8 GAL @ 7.0 LB/GAL)	146	73
AILERON AND FLAPERON (7.4 GAL @ 7.0 LB/GAL)	52	44
ELEVATOR AND RUDDER (2.4 GAL @ 7.0 LB/GAL)	17	20

UNUSABLE FUEL

UNUSABLE FUEL MUST BE INCLUDED IN BASIC WEIGHT SINCE GAGE READINGS INDICATE FUEL QUANTITIES ABOVE THIS AMOUNT. THEREFORE, AN ADJUSTMENT FOR THE DIFFERENCE BETWEEN TRAPPED FUEL I* OR II** AND UNUSABLE FUEL MUST BE MADE IN THE BASIC BUILD-UP FORM.

TOTAL UNUSABLE FUEL			WEIGHT	MOMENT/1000
MIL-F-5616	6.8 LB/GAL	(82.1 GAL)	558	317
MIL-F-5624	6.5 LB/GAL	(82.1 GAL)	534	304
MIL-F-5572	6.0 LB/GAL	(82.1 GAL)	493	280
* TRAPPED FUEL I-AIRPLANE IN TAXI ATTITUDE AND DRAINED AT DEFUELING VALVE.				
MIL-F-5616	6.8 LB/GAL	(71.0 GAL)	483	296
MIL-F-5624	6.5 LB/GAL	(71.0 GAL)	462	283
MIL-F-5572	6.0 LB/GAL	(71.0 GAL)	426	261
** TRAPPED FUEL II-AIRPLANE IN TAXI ATTITUDE AND DRAINED AT DEFUELING VALVE AND TANK SUMPS.				
MIL-F-5616	6.8 LB/GAL	(59.0 GAL)	401	240
MIL-F-5624	6.5 LB/GAL	(59.0 GAL)	384	230
MIL-F-5572	6.0 LB/GAL	(59.0 GAL)	354	212

MISCELLANEOUS DIMENSIONS

WING SPAN (PROJECTED)	116 FT
WING SWEEP BACK (LEADING EDGE)	36° 37'
HORIZONTAL TAIL SPAN	33 FT
AIRPLANE HEIGHT (MAXIMUM)	28 FT
AIRPLANE LENGTH	109 FT 10 IN

WEIGHT AND BALANCE CLEARANCE FORM F
- TACTICAL -
(USE REVERSE FOR TRANSPORT AND CARGO MISSIONS)

FOR USE IN AN 01-1B-40

DATE	AIRPLANE	FROM
1 JUNE 1953	RB-47E	SEATTLE
MISSION	**SERIAL NUMBER**	**TO**
PHOTO	00-000	LOCAL

REMARKS

FWD MAIN 19,097 lbs
CTR. MAIN 18,967 lbs
AFT MAIN 22,263 lbs
FWD AUX 6,533 lbs
BOMB BAY AFT 15,990 lbs
BOMB BAY FWD 7,799 lbs

COMPUTER PLATE NUMBER (If used)

Pertinent instructions to the pilot for shifting load and crew during take off and landing should be noted above.

REF	ITEM	WEIGHT	INDEX OR MOM/1,000
1	BASIC AIRPLANE (From Chart C)	84500	50733
2	OIL (564 Gals)	4223	271
3	DISTRIBUTION OF LOAD		
	COMPT A, NO. 1, CALIBER, 230	2300	25
	COMPT B, NO. 2, CALIBER, 460	4600	102
	F, 18, ATO BOTTLES (EMPTY)	2124	1690
4	AMMUNITION: COMPT I, ROUNDS 700, CALIBER 20 MM.	4334	5336
5	OPERATING WEIGHT	88171	53557
6	CREW		
	(10) PHOTO FLASH	1500	702
	(200) FLASH CARTRIDGES	180	191
	EXTERNAL STORES		
	FUEL: INTERNAL (10,209 Gals)	66360	4249
	BOMB BAY (3,660 Gals)	23789	1463
	EXTERNAL (Gals)		
8	WATER INJ. FLUID 440 Gals	3524	1783 **
9	JATO OR RATO CHARGE	1476	1176 **
10	TAKE OFF CONDITION (Uncorrected)	185000	113391
11	CORRECTIONS (If required)		
12	TAKE OFF CONDITION (Corrected)	185000	113391 **
13	TAKE OFF C.G. IN % M.A.C.	21.3%	
14	JATO OR RATO CHARGE	1476	1176
	AMMUNITION: GUNS & CARTRIDGES	1680	893
	AMMUNITION	4334	5336
	LESS ALLOWANCE FUEL	85649	5413
	WATER INJ. FLUID	3524	1783
15	ESTIMATED LANDING CONDITION	92370	55814
16	ESTIMATED LANDING C.G. IN % M.A.C.	13%	

TOTAL WEIGHT REMOVED —

TOTAL WEIGHT ADDED

NET DIFFERENCE (Ref. 11)

CORRECTIONS (Ref. 11)

COMPT	ITEM	CHANGES WEIGHT	CHANGES INDEX OR MOM/1,000

LIMITS

2/ GROSS WT. TAKE OFF (lbs) * *	2/ GROSS WT. LANDING (lbs) * *	
3/ PERMISSIBLE C.G. TAKE OFF	FROM *	TO (% M.A.C.)
4/ PERMISSIBLE C.G. LANDING	FROM *	TO (% M.A.C.)

1/ Enter constant used.
2/ Enter values from current applicable TO
3/ Applicable to gross weight (Ref. 12)
4/ Applicable to gross weight (Ref. 15).

COMPUTED BY

WEIGHT & BALANCE TECHNICIAN

PILOT

SAMPLE

DD FORM 1 AUG 50 365F

* SEE CHART "E", SHEET 17
** SEE CHART "E", SHEET 23

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