## UNCLASSIFIED

### CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION

SAN DIEGO



REPORT ZW-8-519

DATE 15 November 1959

MODEL F-106A

#### TITLE

ACTUAL WEIGHT AND BALANCE REPORT UNITED STATES AIR FORCE MODEL F-106A INTERCEPTOR FIGHTER AIRPLANE

WITH

PRATT & WHITNEY MODEL J75-P-17 ENGINE CONTRACT NO. AF33(600)-34814 SERIAL NO. AF58-759

PREPARED BY E. J. Porter  E. J. Porter	GROUP	WEIGHTS
L. V. Smith	REFERENCE_	MIL-W-25140 (ASG)
G. V. Smith  CHECKED BY C.E. Beddoes  Ctassification Canceled C. E. Beddoes	APPROVED BY	R. L. Benson
WCAF 1st Ind. (AFMDC-3E) Mcj. Fristoe(MT/71843) 15AU660 Authorized by: Date No. of plagrams 8		An alamos
Reclassified by: Dept, Date		

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FORM 1012-A2

PAGE
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959

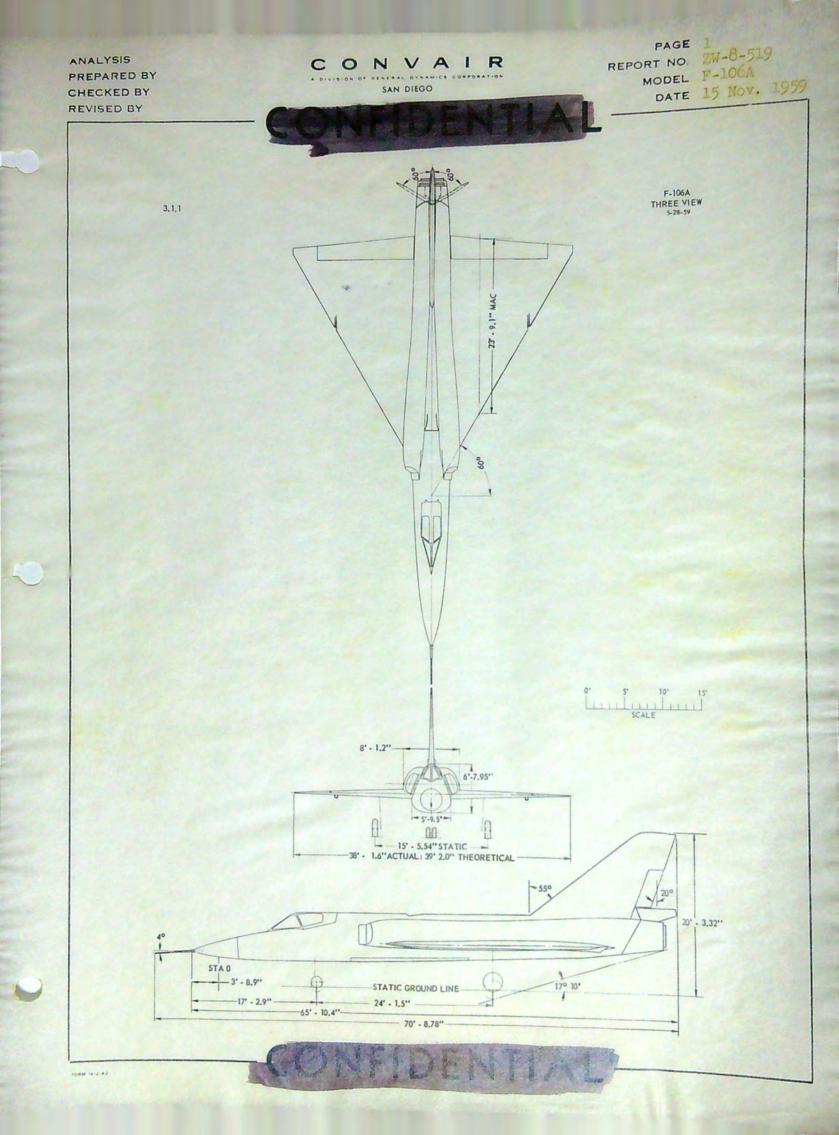


#### TABLE OF CONTENTS

	MIL-W-25140	
	REFERENCE	PAGE
THREE VIEW DRAWING (FIG. 1)		1
INTRODUCTION - SERIAL NUMBERS OF AIRCRAFT	3.7.4 (a)	2
WEIGHT AND BALANCE SUMMARY	3.7.4 (b)	3
DIMENSIONAL DATA (FIG. 2)	3.7.4 (b)	4
GROUP WEIGHT STATEMENT AN 9103-D-TAB	3.7.4 (c)	5
DETAIL WEIGHT STATEMENT AN 9102-D-TAB		10
WEIGHT EMPTY WEIGHING AN 9249-A	3.7.4 (e)	48
WEIGHT EMPTY ITEMS NOT IN AIRPLANE WHEN WEIGHED	3.7.4 (f)	49
ITEMS WEIGHED THAT ARE NOT WEIGHT EMPTY		50
DERIVATION OF BASIC WEIGHT		51
WEIGHT EMPTY WEIGHT AND BALANCE SUMMARY		52
UNACCOUNTABLE WEIGHT		52
WEIGHT EMPTY WEIGHT AND BALANCE DETAILS		53
NORMAL USEFUL LOAD - WEIGHT AND BALANCE DETAILS		85
NORMAL GROSS WEIGHT AND BALANCE CALCULATIONS		86
NORMAL FUEL CURVE		87
OVERLOAD AND EXTERNAL USEFUL LOAD		88
OVERLOAD AND EXTERNAL GROSS WEIGHT CALCULATIONS	3.7.4 (b)	89
OVERLOAD AND EXTERNAL FUEL CURVE	3.7.4 (h)	91
MOMENT CHANGE - LANDING GEAR RETRACTION		92
AUTHORIZED CHANGES	3.7.4 (1)	94
ITEMS NOT ON THIS AIRPLANE BUT ON TACTICAL		95
GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT WEIGHT		
VARIATIONS	3.7.4 (1)	98
CONTRACTOR RESPONSIBILITY OVERWEIGHT	3.7.4 (k)	104
HANDBOOK OF WEIGHT AND BALANCE	3.7.4 (n)	105
STRUCTURAL DIAGRAMS	3.7.4 (m)	745

UNCLASSIFIED





PAGE 2
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



#### INTRODUCTION

This is a first type Actual Weight and Balance Report for U.S.A.F. Model F-106A as described in Detail Specification ZD-8-005C dated 15 May 1958. It is issued to comply with contractual requirements of paragraph 3.7.4 of MIL-W-25140 (ASG) dated 31 March 1955.

This report is representative of Airplane Serial Number 58-759 thru 58-778 (Contractor's Nos. 8-24-70 thru 8-24-89) as tactical aircraft, with the exception of the Derivation of Basic Weight, Chart A, Chart C, Ballast Chart E, and Form F which represent the airplane (58-759 Contractor No. 8-24-70) as delivered to the Air Force.

The airplanes represented by this report incorporate Hughes' MA-1 electronic equipment and carry an armament loading of two GAR-3, two GAR-4 missiles, and one rocket, type MB-1. This is the first block of airplanes to receive ARDC Vertical Instruments during the production schedule.

The airplane has nine integral fuel tanks. Four tanks are located in each wing and one tank is located in the fuselage, above the forward portion of the missile bay. The tank in the fuselage is identified as the fuselage tank. The wing tanks are identified as tank no. 1, tank no. 2, tank no. 3, and transfer tank. Provisions are incorporated for installing an external jettisonable fuel tank to the underside of each wing. Internal fueling of the aircraft is accomplished at a single-point pressure fitting at the lower right side of the engine inlet duct fairing. A refueling selector valve is located in the right-hand main wheel well. When the valve is closed during refueling, the airplane is refueled for Normal fuel of 1304 gallons of usable fuel. When the valve is open the airplane will be fueled for Full Internal Fuel of 1514 gallons of usable fuel as determined by fuel calibration on an actual airplane. With external tanks aboard, an additional 454 gallons of usable fuel is available.

An approximate weight of the Ultimate Tactical Airplane may be determined by adding the weight of "Items not on this airplane but may be on tactical airplane" to the weight of the airplane shown in this report.





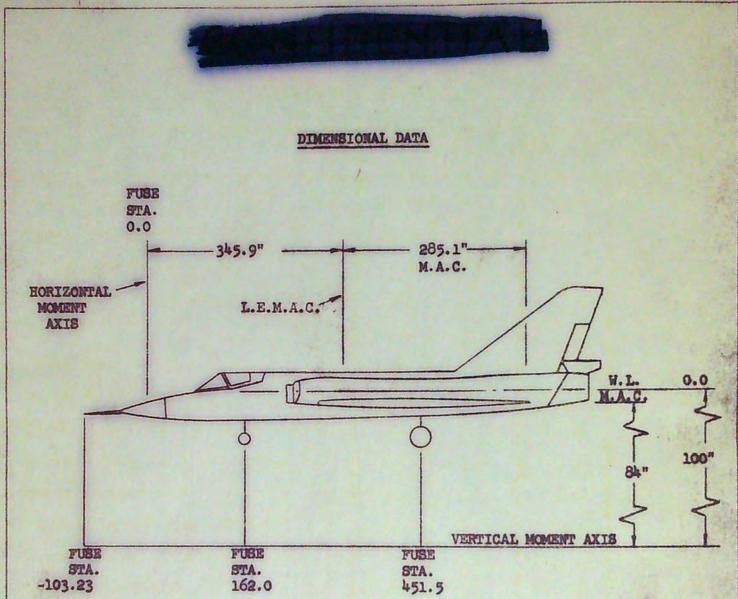
#### WEIGHT AND BALANCE SUMMARY

		USABLE	CENTER	OF GRAVITY INCHES ABOVE		
	WEIGHT	FUEL (GAL.)	% M.A.C.			
Weight Empty	23448		26.7	7.5		
Normal Useful Load	10440	1304	24.4	2.5		
Normal Gross Weight - Gear Down	33888	1304	26.0	5.9		
Normal Gross Weight - Gear Up	33888	1304	26.0	7.1		
Most Forward C.G.*	25412		24.2	8.0		
Normal Most Aft C.G Subsonic	26604	395	28.8	7.1		
Normal Most Aft C.G Supersonic	30179	945	33.1	7.8		
Overload Useful Load (Full Internal Fuel)	11805	1514	30.8	2.9		
Overload Gross Weight - Gear Down	35253	1514	28.1	5.9		
Overload Gross Weight - Gear Up	35253	1514	28.0	7.1		
Overload Most Aft C.G Subsonic	26864	435	29.3	7.1		
Overload Most Aft C.G Supersonic	30439	985	33.5	7.8		
External Useful Load	15125	1968	31.6	- 2.9		
Gross Weight with External Fuel-Gear Down	38573	1968	28.6	3.4		
Gross Weight with External Fuel - Gear Up	38573	1968	28.6	4.4		
	The second second	Contract to the same				

<sup>\*</sup> Most Forward C.G. is the same for all fuel loadings because the most forward condition is zero fuel.



PAGE 4
REPORT NO ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



#### FIGURE 2.

The horizontal moment axis is located at Fuselage Sta. 0.0 which is 103.23 inches aft of the tip of the nose boom. The vertical moment axis is 100.0 inches below W.L. 0.0.

The M.A.C. is 285.1 inches long. The leading edge of the M.A.C. is 345.9 inches aft of Fuselage Sta. 0.0 and is located at W.L. -16.0 (vertical arm of 84).

For C.G. limits see page 91 .



-							-
		GROUP WE	IGHT STA	TEMENT			
		A	CTUAL				
		Brail Land					
-							
	CONTRACT			AF33-600	-34814	1	
	CONTINACT			31 33 50			
	AIRPLANE-GOVERNM	ENT NUMB	ER	AF58-759			
1				70			
	AIRPLANE-CONTRAC	TOR NUMB	ER	8-24-70			
-	MANUFACTURED BY			CONVAIR-	DIVISI	ON OF GEL	SEPAI
	DY	NAMICS C	ORPORATI	ON		) is the	LILA
The second second							
	ENGINE			MAI	T N	AUXII	TARY
				MA		AUXII	TARY
	ENGINE MANUFACTURED BY			MAT PRATT + V		AUXIL	IARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	TARY
					WHITNEY	AUXII	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	TARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXTI	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUX TI	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXTI	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXIL	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXIL	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUX II	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	JARY
	MANUFACTURED BY			PRATT + V	WHITNEY	AUXII	JARY

PAGE 6 MODEL FIOSA REPORT ZW-8-519

9	TING GROUP				-		3302
3	MAIN PANEL-BASIC STRUCTU	0.5				2878	
2	THE PROPERTY PARTY PARTY	620116211	DE.				
1	INTERMEDIATE PANEL-BASIC				De		
0	OUTER PANEL-BASIC STRUCT	OKE - IN	CL TIPS		1.85		
6	SECONDARY STRUCTURE					97	
	ELEVONS					327	
7							
	FLAPS-TRAILING EDGE						
9	-LEADING EDGE	-					
10	SLATS						
12	SPOILERS SPEEDBRAKES						-
13	SPECUBRAKES						
Service of the							
14	ALPI MANIA						,
	AIL GROUP				-		693
16	STABILIZER-BASIC STRUCTU	RE					
17	FIN-BASIC STRUCTURE					615	
18	SECONDARY STRUCTURE-FIN					7	
19	ELEVATOR - INCL BALANCE			BS			
20	RUDDERS - INCL BALANCE	WEIGHT	0.0	BS		71	
21							
22							
23E	BODY GROUP						4401
24	FUSELAGE OR HULL-BASIC S	TRUCTURE				3080	
25	TAILCONE-BASIC STRUCTURE						
26	SECONDARY STRUCTURE-FUSE		11111			587	
77	BOOM	A STATE OF THE PARTY OF THE PAR				201	
28		DBRAKES					
29		S. PANEL	C 4 449.00			72)	
30	-D00R	PANEL	P MISC			734	-
	LIGHTING GEAR GROUP-LAND	- TYPE					-
32			empires.	CANCOC			1232
33	LUCATION	ROLLING	SIRUCT	ONTROLS	-		
34	MAIN	ASSEMBLY	C3.C 3	200 0			
35	NOSE	405.7	515.1	100.0		1020.8	
	NOSE	40.5	130.7	40.0		211.2	
36							
37							
38							
10000	LIGHTING GEAR GROUP-WATER						
0	LOCATION	FLOATS	STRUTS	CONTROLS			
19				11020			
12							
13							
14							
55	URFACE CONTROLS GROUP						445
6	COCKPIT CONTROLS					38.3	
7	AUTOMATIC STABILIZATION					63.7	
8	SYSTEM CONTROLS - INCL PI	TWER A ET	EL CONS				
9	The state of the s	WENT THE	-CL CONT		BS	343.0	
	NGINE SECTION OR NACELLE	EROHO					
1	INBOARD	SKOOP			-		39
2	CENTER						
3	OUTBOARD						
4	DOORS + PANELS + MISC						
5	AGE TOTAL						

AN 9103-D-TAB
NAME CONVAIR
DATE 15 November 1959

## GROUP WEIGHT STATEMENT WEIGHT EMPTY

PAGE 7 MODEL F106A REPORT ZW-8-519

PROPULSION GROUP				1		8071
PROPOLSION GROUP		X AUXIL	TARY	XX MA	IN X	
ENGINE INSTALLATION		AUXIE	IAICI		5816	
	********					
AFTERBURNERS-IF FURN SEI						
ACCESSORY GEAR BOXES + (						
SUPERCHARGER FOR TURBO	TYPES				975	
AIR INDUCTION SYSTEM		-				
8 EXHAUST SYSTEM					320.6	
COOLING SYSTEM					44.4	
LUBRICATING SYSTEM						
TANKS						
COOLING INSTALLATION						
			45.2		5.8	
DUCTS PLUMBING ETC			7,00			
FUEL SYSTEM TANKS-PROTECTED						
THE THE PERSON OF THE PERSON O						
-UNPROTECTED						
7 PLUMBING, ETC			67		710	
WATER INJECTION SYSTEM						
ENGINE CONTROLS					28	
STARTING SYSTEM					59	
PROPELLER INSTALLATION						
2						
2						
AUXILIARY POWER PLANT GROU						
SINSTRUMENTS + NAVIGATIONAL	EQUIPME	NT GROUP				190
SHYDRAULIC GROUP	P					255
7 PNEUMATIC GROUP						175
8						
PELECTRICAL GROUP						606
d AC SYSTEM					466	000
DC SYSTEM						
ELECTRONICS GROUP					140	
3 EQUIPMENT						2734
					1950	
INSTALLATION					784	
5						
SARMAMENT GROUP - INCL GUNF	TRE PROT	ECTION	0.0	IRC		626
FURNISHINGS + EQUIPMENT GR						290
ACCOMMODATIONS FOR PERSO					188	270
MISCELLANEOUS EQUIPMENT	13131					
FURNISHINGS					68.7	
					11.3	
EMERGENCY EQUIPMENT					22	
BAIR CONDITIONING + ANTI-10	ING FOUT	PMENT GR	OLID			407
AIR CONDITIONING		The state of the			333	141
ANTI-ICING					74	
3					14	
PHOTOGRAPHIC GROUP						-
AUXILIARY GEAR GROUP				1		69
HANDLING GEAR					11	
ARRESTING GEAR					58	
CATAPULTING GEAR					20	
ATO GEAR						
AIGGEAR						
40 4 40 - F 4 5 may 5 7 1 4						
MANUFACTURING VARIATION						
MANUFACTURING VARIATION UNACCOUNTABLE						- 88

PAGE 8 MODEL F106A REPORT ZW-8-519

DATE 15 November 1959			No. of Concession, Name of Street, or other Desires, Name of Street, or other Desires, Name of Street, or other Desires, Name of Street, Original Street, Origi	REPORT ZW-				
LOAD CONDITION			CONDITIO	NEONDAT I	NORMAL			
3CREW - NO. 1, INCLUDING SU	RVIVAL K	IT + PARACHUTE	200	200	200			
4PASSENGERS - NO.								
SFUEL	TYPE	GALS	al a	al.a	ol o			
6**INTERNAL-UNUSABLE	JP-4	37.4	243	243	243			
7**INTERNAL-USABLE NORMAL	JP-4	1304.0			8476			
8**INTERNAL-USABLE + OVERLOAD		1514.0	9841	9841				
			39					
9 EXTERNAL-UNUSABLE	JP-4	6.0	2951					
O EXTERNAL-USABLE	JP-4	454.0						
1								
2			330					
SEXTERNAL TANK+PYLON-DROPAB	LE							
401L			26	26	26			
5 TRAPPED		3.5	34	34	34			
6 ENGINE		4.5	3	,				
7								
BFUEL TANKS-LOCATION		244						
SWATER INJECT. FLUID		GALS						
0								
1 BAGGAGE								
CARGO								
3								
4 ARMAMENT								
5 MISSILES	QUANTITY							
6 FORWARD GAR-3	2		282	282	282			
7 AFT GAR-4	2		264	264	264			
8								
9								
30								
31								
32								
13								
34								
35								
			828	828	828			
ROCKET-MB-1 TYPE	1		020	020	020			
37								
18								
INSTALLATIONS								
CARTRIDGE-MB-1 EJECT	5		1	1	1			
1								
12				-				
3 4								
15								
6EQUIPMENT								
7 PYROTECHNICS								
8 PHOTOGRAPHIC								
9								
O* OXYGEN		with the same of t						
		STATE OF THE PARTY						
NICELL ANDONE								
2 MISCELL ANEOUS				-				
3	2.4							
4	11 14							
SUSEFUL LOAD TOTAL			15125	11805	10440			
GWEIGHT EMPTY FROM PAGE 3 7GROSS WEIGHTS - PG 2-A			23448	23448	23448			
TELEPOOR DE LA			38573	35253	33888			

\*\*FULL INTERNAL FUEL

\*\*PER FUEL CALIBRATION ON 56-459

11	DATE 15 November 1959				WEDALL 6	~ . ~ ~ ~ ~ ~ ~ ~	20 27
-	ENGTH-OVERALL-FT 70.73		BOOMS	FUS	VERALL-S	NACELLES	
-	MAIN	AUX	BUUMS			CENTER	
3		FLOATS			INDUARD	CONTEN	DOTOURN
	ENGTH-MAX-FT (STA. 40.89		693.21	54.36			
1 1 1 1 1 1 1 1 1	EPTH-MAX-FT (AT STA. 216.	51		6.49			
	IDTH-MAX-FT			8.06			
	ETTED AREA-SO FT 2230.0			985.00			
	FLOAT/HULL DISPL MAX LBS						
9F	USELAGE VOLUME-CU FT	PRESSURI	ZED		TOTAL	H TAIL	V TAIL
10	DONG AREA CO CO					HIAIL	
	ROSS AREA-SO FT				697.83		105.0
_	EIGHT/GROSS AREA-LB/SQ FT				4.73		6.60
Married Street, or other Designation of the last of th	PAN-FT (AERODYN.)				38.29		10.10
-	OLDED SPAN-FT						
_	XPOSED AREA-SQ FT				492.2		
165	WEEPBACK-AT 25% CHORD LIN		5				
17	-AT OSCHORD LINE-	DEGREES			60.0		55.0
18*	*THEORETICAL ROOT CHORD	-LENGTH-	INCHES		427.6		189.2
19		MAX THI	CKNESS-I	NCHES	16.65		7.57
20*	**CHORD AT PLANFORM BREAK						
21			CKNESS-I	NCHES			
-	**THEORETICAL TIP CHORD	-LENGTH-			ZERO		60.23
23	THE ONE THE TELL CHORD		CKNESS-I		LLINO		2,41
	ORSAL AREA, INCL IN FUS -	HILL -	V TATI -A	DEA-SO E	T		6941
ST	AIL LENGTH-25% M.A.C. WIN	G TO 25 d	MAILA	KEA-SU F	Tr.		24 70
26 A	REA-SO FT/AIRPLANE FLAPS	10 257			1		16.72
27				ToEo			
28	LATERAL CONTROLS			SPOILERS		ELEVONS	66.60
	BOTH SPEED BRAKES			FUS/HULL	17.7		
29	RUDDER	11.10	AREA	-SO FT			
30	1 College College						
	LIGHTING GEAR		LOCATION		MAIN	NOSE	
32	LENGTH-OLEO EXT-C.L. AXL	E TO COL	• TRUNNI	ON-INCHE		44.5	
	OLEO TRAVEL-FULL EXT TO				11.70	8.0	
34	FLOAT OR SKI STRUT LENGT	H-INCHES					
35 A	RRESTING HOOK LENGTH-C.L.	HOOK TR	UNNION T	O Colo H	OOK POIN	T-INCHES	
36H	YDRAULIC SYSTEM CAPACITY-	GALS PRI	MARY 3.3	6 (APPRO		SECONDAR	
37F	UEL + LUB SYST	NUMBER	****GALS			####GALS	
38	LOCATION		PROTECTE		TANKS	UNPROTEC	TED
39	FUEL-INTERNAL WING OVER				8	1274	100
40	FUS/OVERL				1		
41	-EXTERNAL WING USABL		bis 1-			240	
42	-BOMB BAY				2	454	
43	BOND BAT						
44	OIL ENGINE						
45	OIL ENGINE				1	4.5	
4.77	Thursday Die College						
	TRUCTURAL DATA-CONDITION		WING	FUSELAGE	STRESS		ULT LOF
465			FUEL-LBS	FUEL-LBS	GROSS WT		
465		0 0 1 0 1	4020		30590		10.5
465 47 480		-8-043)	1060			The same of the sa	-100
465 47 480 490	LANDING-NORMAL DESIGN (Z	U-8-0431	2122		26172		4.5
465 47 480 490		U-8-0431	2122		26172		4.5
465 47 480 490	LANDING-NORMAL DESIGN (Z	U-8-0431	2122		26172		4.5
465 47 480	LANDING-NORMAL DESIGN (Z MAX GROSS WT WITH ZERO W CATAPULTING	U-8-0431	2122				
465 47 480 490 50 51	LANDING-NORMAL DESIGN (Z MAX GROSS WT WITH ZERO W CATAPULTING MINIMUM FLYING WEIGHT	U-8-043) ING FUEL	2122	23	26172 24561		10.5
465 47 480 490 51 520	LANDING-NORMAL DESIGN (Z MAX GROSS WT WITH ZERO W CATAPULTING MINIMUM FLYING WEIGHT LIMIT AIRPLANE LANDING S	U-8-043) ING FUEL INKING S	2122 434 PEED-ET/	23.	24561		10.5
465 47 480 490 50 51 520	LANDING-NORMAL DESIGN (Z MAX GROSS WT WITH ZERO W CATAPULTING MINIMUM FLYING WEIGHT LIMIT AIRPLANE LANDING S WING LIFT ASSUMED FOR LA	ING FUEL  INKING S  NDING DE	434 PEED-FT/	SEC DITTON d	24561		10.5
46 S 47 480 490 50 51 520	LANDING-NORMAL DESIGN (Z MAX GROSS WT WITH ZERO W CATAPULTING MINIMUM FLYING WEIGHT LIMIT AIRPLANE LANDING S	ING FUEL INKING S NDING DE	2122  434  PEED-FT/ SIGN CON N-POWER	SEC DITION-2	24561 W	FIED	10.5

						REPURI	
							1
-							
		DETAIL W	FIGHT ST	ATEMENT			
		OCIAIL W	10111-01	A PERMANA			
			ACTU	AL			
	CONTRACT			AE22 (AA	26094		
	CONTRACT			AF33 600	- 14814		
	AIRPLANE-GOVERNM	ENT NIME	ED	AF58-759			
	ATTO CAME OF THE	THE HOLES		1 30- 177			
	AIRPLANF-CONTRAC	TOR NUMB	FR	8-24-70			
	MANUFACTURED BY			CONVAIR			
				ISION OF	GENERAL	DYNAMIC	S CORP
	ENGINE						
	ENGINE			МД	IN	AUX	ITARY
	MANUFACTURED BY			00499		-	
	MANUFACTURED BY			PRATT +	WHITNEY		
	MANUFACTURED BY MODEL				WHITNEY		
				J-75-P-			
	MODEL						
	MODEL			J-75-P-			
	MODEL			J-75-P-			
	MODEL			J-75-P-			
	MODEL			J-75-P-			
	MODEL			J-75-P-			
	MODEL			J-75-P-			
	MODEL			J-75-P-			
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	MODEL			J-75-P-			
	MODEL			J-75-P-			
	MODEL			J-75-P-			
	MODEL			J-75-P-			
	MODEL			J-75-P-			

2	MAIN INTERM OUTS
3	PANEL PANEL PANE
4*SPAR-NO.1 L.E.	99.8
5 × -NO 2	37.4
6* -NO. 3	111.4
	130.2
7* -NO. 4	120.0
8* -NO . 5	149.0
9* -NO. 6	
0* -NO. 7	67.1
1UPPER-JOINT, SPLICE + FAST.	0.9
2 -INTERSPAR SKIN-SHEET	31.0
3 -INTERSPAR SKIN-MACHINED	511.6
4LOWER-FRONT SPAR CAP	
5 -INTERMEDIATE SPAR CAP	
6 -REAR SPAR CAP	
7 -AUXILIARY SPAR CAP	
R -JT. SPL + FASTNR-FWD TK	21.7
9 -JT. SPL + FASTNR-INNER	3.7
O -JT. SPL + FASTNR-AFT TK	46.3
1 -JT, SPL + FASTNR-AFT TK	
	33.5
2 -INTERSPAR COVER-SHEET	9.5
-INTERSPAR COV-MACHINED	581.9
4SPAR WEB + STIFF -FRONT	
5 -INTERMEDIATE	
6 -REAR	
7 -AUXILIARY	
8 -JOINTS, SPLICES + FAST.	
GINTERSPAR-RIBS-FWD TANK	48.9
O -RIRS-INTERMEDIATE BOX	26.1
1 -RIBS AFT TANK	118.1
7 -PIRS-T.F. TANK + BOX	91.1
3 -RULKHEADS	
4 -CHORDWISE STIFFENERS	172.9
-JOINTS SPLICES + FAST	21.4
	66.7
6LEADING EDGE-COVER	81.7
7 -STIFFFNFRS	
R -RIBS	30.4
O -AUXILIARY SPARS	
O -JOINTS, SPLICES + FAST.	40.0
2	
2	
3TRAILING FDGF-COVER	
4 -STIFFENERS	
5 -RTRS	
6 -AUXILIARY SPARS	
7 -JOINTS, SPLICES + FAST	
P SPLICES + FAST	
SLOTTED LEADING EDGE	8.2
OTIPS	114.5
1	and I s
2FIRFWALL-STRUCTURAL	
3DRAG ANGLE	00 (
AWING-FUSELAGE ATTACHMENT	30.6
SCOLUMN TOTALS	72.4
STOTAL-BASIC STRUCTURE	2878.0

1 LO P AREA 3 SQ FT 4 SQ FT 5 WING FOLD 6 7 RDOORS + FRAMES 9 -LANDING-MAIN 10 11 -BOMB 12 13 14 -GUN 15 16 -AMMUNITION 17 18 -ROCKET 19 20 -LIFE RAFT 21 22 -FSCAPE 23 24 -ACCESS 25 26 27 28 PANFLS-NON STRUCTURAL 29 30 31 32	A STRUCT	MECH + CONTROLS	POWER	ACTUATOR	LOCK	EMERG
SQ FT  4.  5WING FOLD  6  7  8DOORS + FRAMES  0 -LANDING-MAIN  10  11 -ROMB  12  13  14 -GUN  15  16 -AMMUNITION  17  18 -ROCKET  19  20 -LIFF RAFT  21  22 -ESCAPF  23  24 -ACCESS  25  26  27  28 PANFLS-NON STRUCTURAL  29  30  31	T		TRANS		MECH	
5 WING FOLD 6 7 8 DOORS + FRAMES 9 -LANDING-MAIN 0 1 -ROMB 2 3 4 -GUN 5 6 -AMMUNITION 7 8 -ROCKET 9 10 -LIFE RAFT 11 12 -ESCAPE 13 14 -ACCESS 15 16 17 18 PANFLS-NON STRUCTURAL 18 19 10 11 11 12 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18						
5WING FOLD 6 7 8DOORS + FRAMES 9 -LANDING-MAIN 0 1 -ROMB 2 3 4 -GUN 5 6 -AMMUNITION 7 8 -ROCKET 9 0 -LIFF RAFT 1 12 -FSCAPF 23 4 -ACCESS 5 66 77 RPANFLS-NON STRUCTURAL 80 61	53.4					
RDOORS + FRAMES -LANDING-MAIN  -ROMB -ROMB -AMMUNITION -ROCKET -COMPANS -R	53.4					
8DOORS + FRAMES 9 -LANDING-MAIN 0 1 -ROMB 2 3 4 -GUN 5 6 -AMMUNITION 7 8 -ROCKET 9 10 -LIFF RAFT 11 12 -FSCAPF 13 14 -ACCESS 15 16 17 18 PANFLS-NON STRUCTURAL 19 19 10 10 11 11 12 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	53.4					
RDOORS + FRAMES  -LANDING-MAIN  -ROMB  -ROMB  -ROCKET  -R	53.4					
-LANDING-MAIN  -ROMB  -GUN  -AMMUNITION  -ROCKET  -LIFE RAFT  -ESCAPE  -ACCESS	53.4					
1 -ROMB  2 3 4 -GUN 5 6 -AMMUNITION 7 8 -ROCKET 9 -LIFF RAFT 22 -FSCAPF 23 -ACCESS 24 -ACCESS 25 26 27 28 PANFLS-NON STRUCTURAL 29 30 31 32						
1 -ROMB 2 3 4 -GUN 5 6 -AMMUNITION 7 8 -ROCKET 9 10 -LIFF RAFT 22 -FSCAPF 23 24 -ACCESS 25 26 27 28 PANFLS-NON STRUCTURAL 29 30 31						
4 -GUN 5 6 -AMMUNITION 7 8 -ROCKET 9 0 -LIFF RAFT 22 -ESCAPF 23 24 -ACCESS 25 26 27 28 PANFLS-NON STRUCTURAL 29 30 31						
4 -GUN 5 6 -AMMUNITION 7 8 -ROCKET 9 0 -LIFF RAFT 22 -ESCAPE 23 24 -ACCESS 26 27 28PANFLS-NON STRUCTURAL 29 30 31						
4 -GUN 5 6 -AMMUNITION 7 8 -ROCKET 9 -LIFF RAFT 11 22 -ESCAPE 23 -ACCESS 26 27 28 PANFLS-NON STRUCTURAL 29 30 31						
5 -AMMUNITION 7 8 -ROCKET 9 -LIFF RAFT 22 -ESCAPF 23 -ACCESS 26 -7 28 PANFLS-NON STRUCTURAL 29 30 31 32						
-AMMUNITION  R -ROCKET						
8 -ROCKET 9 10 -LIFF RAFT 11 -FSCAPF 13 -ACCESS 15 -ACCESS 16 -ACCESS 17 -ACCESS 18 -ACC						
8 -ROCKET 9 10 -LIFF RAFT 11 12 -FSCAPF 13 14 -ACCESS 15 16 17 18 PANFLS-NON STRUCTURAL 19 19 19 19 19 19 19 19 19 19 19 19 19					-	
-LIFF RAFT -ESCAPE -ACCESS -FRANCESS						
O -LIFF RAFT  O -LIFF RAFT  O -FSCAPF  O -ACCESS  O -AC						
-LIFF RAFT -ESCAPE -ACCESS -ESCAPE -ES						
-ESCAPE -ESCAPE -ACCESS -ESCAP						
-ESCAPE  4 -ACCESS  66  77  RPANFLS-NON STRUCTURAL  90  11						
-ACCESS -ACCES						
4 -ACCESS 5 6 7 8PANFLS-NON STRUCTURAL 9 10 11						
5 6 7 8 PANFLS-NON STRUCTURAL 9 10	1.8					
PANFLS-NON STRUCTURAL  10 11						
PANFLS-NON STRUCTURAL  10 11						
PANFLS-NON STRUCTURAL  10 11						-
90 90 91 92						
31						
11						
2						
A.						
3						
34						
5						
6						
7						
18						
9						
-6						
-0 -1 -2 -3 -4 -5 -6						
?						
3						
4						
5						
6						
7						
R						
SWALKWAYS, STEPS + GRIPS			-			
O STEPS T GRIPS						-
1FAIRING AND FILLETS	00 6					
	28.0					
2						
SEXTERIOR FINISH	13.8					
4						
SCOLUMN TOTALS	97.0					
6 TOTAL-SECONDARY STRUCTURE						97.0

\* TYPE OF POWER- H-HYD, F-FLEC, P-PNFU, POWER TRANSMISSION FROM MAIN DISTRIBUTION POINT TO ACTUATING UNIT

\*\* INDICATE LOCATION OF MAJOR DOORS- CS, OP, IP, ETC

	X ELF	EVONS	XX	ToFo	FLAPS	XX LoFo	FLAPS
3	INBOARD	DUTROAF	RDINB	OARD	DUTBOAR	DINBOARD	DUTBOA
4	THOUTHO						
5 SPARS		16.2					
6							
7							
8		-000					
ORIBS		28.8					
COVER AND STIFFFNERS		77.4					
3 -JOINTS , SPLICES + FAST.		4.5					
4		7.)					
ST.E. STRIPS		59.1					
6		77					
TEABRIC AND DOPE							
R							
OFITTING-SPLIT FLEVON		2.5					
20							
TTARS							
23							
74						-	
STOROUF TURES							
6							
7				-			
8							
PARALANCE WEIGHTS + SUPPORTS							
30							
BIAERODYNAMIC SEALS							
2BONDING JUMPERS		0.8					
44CONTROL HORNS		00 -					
15		88.1					
36							
TACCESS DOORS-NON STRUCT							
8							
OHINGES AND PINS		19.0					
OFXTERIOR FINISH		1.).0					
1 TOTALS-SURFACE							
?							
3 CONTROL SURFACE SUPPORTS							
4 HINGES		30.6					
5 BRACKETS 6 TRACKS							
7 CARRIAGES			-				
8							
9							
9							
1							
1 2							
3							
4TOTALS-SUPPORTS							
5 COLUMN TOTALS		327.0					
6PAGE TOTAL		7-100					

1		And in case of the last of the	XX	FINS	1
2	CENTER	OUTER	CENTER	OUTER	DORSAL
3					
4SPAR-NO. 1 L. F.			9.2		
5× -NO. 2			7.0		
6 + -NO. 3			51.3		
7* -NO 4			65.5		
R* -NO . 5			51.3		
9 -INTERSPAR COVER			254.6		
10 -JOINTS , SPLICES + FAST.			26.9		
11 -AUXILIARY SPAR					
17					
13					
14LOWER-FRONT SPAR CAP					
15 -INTERMEDIATE SPAR CAP					
16 -REAR SPAR CAP					
17 -AUXILIARY SPAR CAP					
18 -INTERSPAR COVER					
19 -SPANWISE STIFFENERS					
20 -JOINTS, SPLICES + FAST.					
21					
22				No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	
23					
24SPAR WER + STIFF - FRONT			DOM:		
75 -INTERMEDIATE					1
P6 -REAR					
77 -AUXILIARY					
28 -JOINTS, SPLICES + FAST.					
29					
3.0		A CONTRACTOR OF THE PARTY OF TH			
31 INTERSPAR-RIBS			20.2		
32 -BULKHFADS			30.3		
33 -CHORDWISE STIFFENERS				-	
34 -JOINTS, SPLICES + FAST.			26		
35			2.6		
36LFADING FDGF-COVFR			00 0		
37 -STIFFFNERS			23.2		
38 -PTRS			26		
39 -AUXILIARY SPARS			3.6		
40 -JOINTS , SPLICES + FAST.			0.5		
41			9.7		
42					
43					
43 44 45					
45					
46					
47					
18					
ODRAG ANGLE			-		
SOTIPS			8.2		
51			69.9		
52					
33					
SABOLTS-SPAR ATTACH TO BHO					1
SECOLUMN TOTALS			1.7		
SOTOTAL-BASIC STRUCTURE			615.0		
7					615.
*THESE ARE INTEGRAL CAP-WER-ST					

#### TAIL GROUP SECONDARY STRUCTURE DATE 15 November 1959 DOORS, PANELS AND MISCELLANFOUS

PAGE 15 MODEL F-106A REPORT ZW-8-519

7								
	O P AREA	STRUCT	A STATE OF THE STA	POWER	ACTUATOR	LOCK	EMER(	
2 L	SO FT		CONTROLS			MECH		
4								
SDOORS + FRAMES								
6 -LANDING								
7								
R								
9								
O -ACCESS		0.4						
1								
2								
3								
4								
5								
6								
7								
8							MAN TO S	
9								
0								
1								
2								
23								
4								
26	V TO THE REAL PROPERTY.							
6								
7								
BPANFLS-NON STRUC	TURAL	200						
20								
30								
11								
12								
13								
34								
15								
16								
17								
8								
19								
0								
1								
7								
3								
4	THE BEST							
5								
6								
.7								
A				The same and the s				
9WALKWAYS, STEPS								
OFATRING AND FILL		3.6						
1	The Land							
2								
SEXTERIOR FINISH		3.0						
4		3.0						
SCOLUMN TOTALS		7.0						
STOTAL-SECONDARY	o de fila militar de m	1.0						

<sup>\*</sup> TYPE OF POWER- H-HYD, E-ELEC, P-PNEU, POWER TRANSMISSION FROM MAIN DISTRIBUTION POINT TO ACTUATING UNIT

<sup>\*\*</sup> INDICATE LOCATION OF MAJOR DOORS- CS, OP, IP, ETC

### TAIL GROUP CONTROL SURFACES

PAGE 16 MODEL F-106A REPORT ZW-8-519

,	X XX	RUDI	DERS
2	FLEVATOR		
3		CENTER	OUTE
4 SPARS		2.9	
5			
6			
7			
RIBS		13.2	
9			
2 COVER AND STIFFENERS		16.3	
3 -JOINTS , SPLICES + FAST ,		3.4	
4			
5T.F. STRIPS		1.2	
6			Maria Maria
7FARRIC AND DOPE			
8			
0			Constitution of the last
0			
ITARS		in the last of the	
2			
3			
4			
5 TOROUF TUBES			
6			
7			
8			
9BALANCE WEIGHTS + SUPPORTS			
1AFRODYNAMIC SEALS			
PRONDING JUMPERS		0.4	
3			
4CONTROL HORNS		24.7	
5			
6			
7ACCESS DOORS-NON STRUCT			
8 CHANGE AND DAME			
SHINGES AND PINS		5.3	
OFXTERIOR FINISH			
1 CTOTAL C CHREACE			
2TOTALS-SURFACE			
3			
4CONTROL SURFACE SUPPORTS			
5 HINGES		3.6	
6 BRACKETS			
7			
8			
8 9 9 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
3			
4TOTALS-SUPPORTS			
SCOLUMN TOTALS		71.0	
SPAGE TOTAL		I also U	71.0
7TOTAL-TAIL GROUP - PG 6-8			-

1		FUS	FLAGE OR	HULL	, ×	X
2						
3 STATION	0-216	216-412	412-472	17-ToCo	DORSAL	TAILCON
4*BULKHFADS + FRAMES						
5 -RADOME ATTACH. 41	3.5					-
6 -FORWARD PRESSURE 102	19.5					-
7 -AFT PRESSURE 172	51.6					-
R -FWD MISL. RAY+FUFL 217		50.1				
9 -AFT FUFL TANK 253		38.2				
O -CENTER MISSILE RAY 316		67.2				
1 -WING 364		55.4				
2 -FUMF TIGHT 412		27.7				
3 -WING ATTACH. 431			110.4			
4 -WING ATTACH 472			165.7			
5 -WING SPAR 5 520				97.0		
6 -WING SPAR 6 557				129.5		
7 -WING SPAR 7 593				46.4		
A -FIN SPAR 3-CANTED 615				21.1		
9 -FIN SPAR 4-CANTED 645				16.5		
O -FIN SPAR 5-CANTED 672				23.2		
1 -TAILCONE ATTACH-EWD+AFT						4.8
MINOR FRAMES 0-216	67.6					
4MINOR FRAMES 216-412	01.0	241.7				
SMINOR FRAMES 412-472		too I sha o	72.1			
6MINOR FRAMES 472-711			1 100 0 10	161.2		
77				10106		
PROVER-UPPER RETWEEN LONGN	13.0				21.8	
9 -SIDE BETWEEN LONGERONS	61.6	194.1	44.9	179.3	21.0	28.3
-LOWER BETWEEN LONGERONS	22.2	177.1	77.7	117.5		60.5
1	Caster # Inc					
12						
35KIN STIFF-SIDE BTWN LONGRA				20.0		
MATAILCONF ATTACH PARTS FUS						
SMISSILF RAY STAR. ANGLES		13.6				
6FITTINGS + BFAMS-FNG MT				39.8		
7LONGFRONS-UPPFR	26.7	0.6	4.0		110.8	
RLONGFRONS-LOWFR	24.0	94.0		50.9		
9LONGFRONS-SIDF			1.4	36.8		
OLONGFRONS-TRUSS-LWR.			59.6			
1LONGITUDINAL PARTITIONS	10.6					
2 JOINTS, SPLICES, FASTENERS	12.9	28.4	4.0	6.2		
3FLOORING AND SUPPORTS	43.9					
4 SUPT REAM-FLOOR+NLG	20.6					
SACCESS DOORS-FNGINE COMPT				50.3		
6 -STRUCTURAL		13.3	19.4	51.3		
7 -FWD RADAR COMPARTMENT	70.1		7.	1=0		
R -AsToMe		20.9				
O -CIDE RADAR COMPT.	56.2	40.7				
DARMAMENT STRUCTURE		32,1				
THORTT DIAPHRAGM-MISLE RAY		97.3			F 6	
PEUFL TANK ASSY		21.5			5.7	
3						
4MISCELLANEOUS			10 0			
SCOLUMN TOTALS	504.0	071 6	13.7	000		5.3
6TOTAL-BASIC STRUCTURE	JUT. U	974.6	495.2	929.5	138.3	38.4
7						3080.0

<sup>\*</sup> LIST ALL MAIN + WATERTIGHT BULKHEADS + FRAMES INDIVIDUALLY. MINOR FRAMES MAY BE COMBINED.

1	X	FUSELAGE	OR HULL			× ·
2		TAIL		CANOPY +		SPEED
3		CONF	INSTL	WINDSHLD		BRAKES
4FNCLOSURE-FXCL TURRET FNC				10/ 0		
5**CANOPY-PRESSURIZED				136.8		
6 CANOPY OPERATING MECH				22.0		
7 LATCHES				33.2		
8 AIR SPRING-REMOVER				2.1		
9 FLUID						
10 -SW INSTL-TAXT LOCK						
11 SFAL SYSTEM				9.6		
12 UNLOCK WARNING SYSTEM				1.4		
13 JETTISON EQUIPMENT				18.1		
14 FMFRG.LATCH RELEASE				2.7		
15 CONTR UNIT-FLECT CANOPY				13.5		
16 SW-FUSF-RFL-INSTL				6.6		
17**CANOPY-PRESS-CONTINUED				16.0		
18WINDSHLD-				122.3		
19			Marie Control			
20WINDOWS, PORTS-INCL FRAMES						
21						
22						
23						
24						
25						
26RADOMF ARFA SO FT 13.75			153.1			
27ATTACHMENT-RADOME			3.1			
28FLOORING AND SUPPORTS						
20						
30						
31 STATEWAYS + LADDERS-FIXED						
32						
33						
34STERNPOST AND FITTINGS						
35NOSF BUMPER-HULL						
36 RUBBING STRIPS						
37						
38						
39						
40TAIL CONF						
41						
42						
43 SPEED BRAKES-STRUCTURE						
44 -SUPPORTS						
45						
46					-	
45 46 47 48						
48						
49 50						
50					-	
51						
52						
53						
54						
55 COLUMN TOTALS						
SEPAGE TOTAL			156.2	362.3		
57				Control of the last		

<sup>\*</sup> FROM MAIN DISTRIBUTION POINT TO ACTUATING UNIT.
\*\*FOR COMPLETE CANOPY WEIGHT USE TOTAL OF LINE 5 + 17.

1	<b>茶茶</b> 茶	× >	(X	OPERATII	NG MECHANI		-
2	LO P AREA	STRUCT	MECH +	POWER	ACTUATOR	LOCK	EMERO
3	ALL SQ FT		CONTROLS	TRANS		MECH	
4	E						
	ORS + FRAMES						
	The state of the s	20 0	4.2	27	5.0		0.6
	-LANDING-NOSE H-P- 7.5			9.8	11.2		2.5
	-LANDING-MAIN H-P-21.7	67.0	33.2	7.0	J. J. C		-01
8							
9							
10	-ROMB						
11							
12							
12	-GUN						
14							
	-AMMUNITION						
16	A STATE OF THE STA						
	-MISSILF STA 216-412	287.4	65.7	14.1	104.3		3.7
	-MISSILF STA 216-412	201.4	0).1	also I 9 also	207.5		3.1
18						-	
19							
20							
21				Marie Land			
22							
23							
	-WATERTIGHT						
25							
26	-CTR RADAR COMPT-LWR 6.1	15.3					
77							
	-FNTRANCE						
29							
30							
	-ACCESS	22 5					
32	-ACCESS	33.5					
33							
	-DAM AND THORNE	1. 0					
	-PAM ATR TURBINE	4.9					
	-FNGINF						
36							
The state of the s	-CAMERA						
38							
	NFLS-NON STRUCTURAL						
	CLOSURF-RAM AIR TURRINF	7.7					
11							
+2							
43							
+4							
+5							
16							
17							
R			-				
	I VULLE CORDO I CORDO						
	LKWAYS, STEPS + GRIPS						
0							
	TRING AND FILLFTS	18.5					
	TERIOR FINISH	19.8					
13							
4							
And the second	LUMN TOTALS	477.0	102 1	06.0			
	GF TOTAL	411.0	103.1	26.6	120.5		6.8
UT M	TAL-BODY GROUP - PG 9-11						734.0

<sup>\*</sup> TYPE OF POWER- H-HYD, F-FLFC, P-PNFU, POWER TRANSMISSION FROM MAIN DISTRIBUTION POINT TO ACTUATING UNIT

<sup>\*\*</sup> INDICATE LOCATION OF MAJOR DOORS- B-ROOM, F-FUSELAGE, H-HULL. -- INDICATES EMERGENCY SYSTEM

AN 9102-D-TAB
NAME CONVAIR
DATE 15 November 1959

PAGE 20 MODEL F-106A REPORT ZW-8-519

TYPE-TRICYCLE		
	244 9.44	MOCE
3 LOCATION	MAIN	NOSE
4		
5 QUANTITY	96.0	19.6
SWHEELS 2 MAIN-2 NOSE		16.0
TTIRES 2 MAIN-2 NOSE	102.0	4.3
RTUBES 2 MAIN-2 NOSE	15.5	
PATR	2.2	0.6
OBRAKES 2 MAIN	190.0	
2		
SANTI-SKID DEVICE		
4		
SFLOATS-BULKHFADS		
6 -FRAMES		
7 -COVER		-
8 -COVER STIFF LONGL		
O -KEFLSONS		
O -KEEL		
1 -LONGITUDINAL PARTITIONS		
2 -CHINE, SPRAY STRIP		
3 -STEP ASSEMBLY		
4 -POST ASSEMBLY		
5 -NOSE BUMPER		
6 INSPECTION DOORS		
TWALKWAYS		
SEXTERIOR FINISH		
95KIDS OR RUMPERS		
OSKIS		
1		
2TOTALS-RUNNING GEAR	405.7	40.5
3		
4BRACES-DRAG	38.4	17.6
5 -SIDE	63.0	41.0
6 -FLOAT	03.0	
7PIVOT SHAFT	13.2	
ASHOCK STRUT	374.2	70.6
9 -STRUT OIL	314.2	10.0
0 -FORK		
1 -AXLF		
2 -TOROUF ARMS		
3 -TRUNNIONS		
4STEER DAMP-INCL VALVE		20.0
5		32.8
6FITTINGS-MAIN ATTACH-WING		
7 -TAIL	26.3	
8 -BODY		
		9.7
9 -NACELLE		
1 FATRING		
2		
3		
4PINS, BOLTS, NUTS, FTC		
COLUMN PATALE	222 0	2000
5 COLUMN TOTALS 6 PAGE TOTAL 7	920.8	171.2

TIRF SIZE
BRK ENERGY FT=/1000/AIRPL
BRAKE TYPE

30X8.8 18X4.4

ILOCATION	X	MATN		XX		_
2		BRAKE	EMERG		EMERG	
3	RETRACT	OPER	OPERN	RETRACT	EXTEN	
4						
5						
6MECHANICAL OPERATING MECH						
7 CONTROLS	3.6	3.9				
8 ACTUATORS						
0						
10						
1						
DELECTRICAL OPERATING MECH						
13 CONTROLS	1.7					
14* CIRCUITRY	3.2					
15 OPERATING MOTORS	3.2					
16 MECHANISM						
17 SAFFTY SYSTEM	2.5		0.2			
18			0.6			
9						
OHYDRAULIC OPERATING MECH						
21 CONTROLS	5.1	4.7				
22* PLUMBING	5.1	4.				
PUMPS	5.0					
24 RESERVOIRS					-	
	20.0					-
26 ACTUATORS	30.2					
27 MFCHANISM	- 0					
28* FLUID	5.8	0.9				
29	-					
30 -						
31 PNEUMATIC OPERATING MECH						
32 CONTROLS		2.9	1.5			
33* PLUMRING INCLUDING AIR		13.8	3.4			
34 PLIMPS						
35 BOTTLES-AIR						
36 ACTUATORS						
37 MECHANISM						
38						
30						
40						
41 LOCKING MECHANISM						
42BRACES						
43LINKS						
44PARKING BRAKE CONTROL						
45 POSITION IND + WARN MECH	7.7					
46						-
47						
48 SUPTS, GUIDES, FTC-WING	2.1					
49 -TATL 50 -BODY	0.7	1.1				
-NACELLE						
51 -NACELLE 52 53						
3						
4						
SSCOLUMN TOTALS	600 6					
SEPAGE TOTAL	67.6	27.3	5.1			1.1.
57						100.0

<sup>\*</sup> FROM MAIN DISTRIBUTION POINT TO ACTUATING UNIT.

### ALIGHTING GEAR GROUP CONTROLS CONTD

MODEL F-106A REPORT ZW-8-519

1LOCATION	X	NOS			(X	
2			BRAKE	FMFRG		FMERG
3	STEERING	RETRACT	OPER	EXTEN	RETRACT	FXTEM
4						
5						
6MECHANICAL OPERATING MECH						
7 CONTROLS		3.2				
8 ACTUATORS					-	
0						-
0						
1						
PELECTRICAL OPERATING MECH						
3 CONTROLS	5.1	2.4			-	
4* CIRCUITRY	0.5					
5 OPERATING MOTORS						
6 MECHANISM						
17						
8	The state of the s			-		
9						-
OHYDRAULIC OPERATING MECH						
CONTROLS	1.3	4.6				
22* PLUMBING	2.5	1.0				
PUMPS						
RESERVOIRS						
25 ACCUMULATORS						
ACTUATORS		3.4				
MECHANISM	5.9					
28* FLUID	0.8	0.5				
29						
30						
31PHEUMATIC OPERATING MECH						
32 CONTROLS				1.4		
33* PLUMBING				1.9		
34 PUMPS						
BOTTLES-AIR						
ACTUATORS						
MECHANISM						
38						
40						
ILOCKING MECHANISM						
PRACES						
3LINKS						
4PARKING BRAKE CONTROL						
SPOSITION INDICATING MECH						
		4.2				
16						
SUPTS, GUIDES, FTC-WING						
49 -TAIL						
O -BODY						
	0.1	1.2				
-NACFLLF						
-LANDING GEAR						
34						
SCOLHMN TOTALS	16.2	20.5		3.3		
A PLACE TOTAL						40.0

	YAW +		
2	PITCH	COCKPIT	PILOT
3	DAMPER	CONTROLS	ASSIST
4CONTROL COLUMN OR STICK		0.0	
5**-PILOT		9.9	
6 -ASSISTANT PILOT			
7 -CONNECTING MEMBERS			
8 -SUPPORTS		2.6	
9			
O -COUNTERBALANCE-SIDE		13.9	
1			
2			
SRUDDER PEDALS + BRK TREAD			
4 -PILOT		7.8	Fig. 1
5 -ASSISTANT PILOT			
6 -CONNECTING MEMBERS			
7 -SUPPORTS		2.3	
8			
9			
0			
1			
2			
SINTEGRAL PARKING LOCK			
4 YAW + PITCH-CONTROLLER			
5 -AMPLIFIER	23.7		
6 -GYROS	7.0		
7	1.0		
8* -CIRCUITRY	13.4		
9	4).4		
0 -PITCH G LIMITER	16.3		
1 -DETECTOR-SIDE SLIP	10.3		
2 -SUPPORTS + MOUNTS	2 2		
3AUTOPILOT-TYPF-	3.3		
4* CIRCUITRY			
5 TRANSMITTER			
6 SERVO AMPLIFIER			
7 SERVO MOTORS			
8 GYROS			
o GTROS			
O FOLLOW-UP CONTROLS			2.0
1			1.8
2			
2			
4 YAW + PITCH DAMPER-FLEC 5 SERVO SHUTOFF VALVES			
6 SUPPORTS AND BRACKETS			
7			
9* FLUID			
0* FLFC PANFLS + CIRCUITRY			
1 PULLEYS, SPROCKETS, ETC			
2			
3			
4			
SCOLUMN TOTALS	63.7	36.5	1.8
6TOTAL-COCKPIT CONTROLS + AUTOPILOT	201	7007	

### SURFACE CONTROLS GROUP SYSTEM CONTROLS

PAGE 24 MODEL F-106A REPORT ZW-8-519

				ToFo		SPEED
3	ATLERON	FLEVON	RUDDER	FLAPS	SPOILERS	the same of the sa
4	AICENON					
SMECHANICAL OPERATING MECH						
		07.0	10 0			
6 CONTROLS		27.9	12.8			
7 TENSION REGULATORS	-	19.2	3.0	-		
R ACTUATORS	-				-	_
o TRIM CONTROLS					-	
O CENTERING SPRING			0.2			
TELECTRICAL OPERATING MECH						
2**TYPF-P						
3 CONTROLS						
4* -WARNING, ETC						2.8
5 OPERATING MOTORS						
6 MECHANISM						
7 TRIM CONTROLS		14.5	7.1			
8 RATTO CHANGER		210)	1.			
OHYDRAULIC OPERATING MECH						
A**TYPF-P						-
		7/ -	0.0			2.0
1 CONTROLS		16.5	0.3			3.9
2* PLUMRING		18.8	9.6			3.5
3 PUMPS						
4 RESERVOIRS						
5 ACCUMULATORS						
6 ACTUATORS		45.0	18.2			14.0
7 MECHANISM-ACTUATE CYLS		6.3				
R TRIM CONTROLS						
9* FLUID		6.7	0.7			1.4
0		0.1	0.1			di e T
IPHEUMATIC OPERATING MECH						-
2**TYPF			7			
3 CONTROLS						
4* PLUMBING						
5 PUMPS						
6 BOTTLES-AIR						
7 ACTUATORS						
8 MECHANISM						
9 TRIM CONTROLS						
0						
PARTIFICIAL FFFL						
2 BUNGEF						
3 ROR WEIGHT						
4 O SPRING SYSTEM		257 2				
SGUST LOCKS +/OR DAMPER		37.3	5.1			
6 SHIFLDS-HIGH TEMPERATURE		1.8				
7						
8 SUPPORTS , GUIDES , FTC-WING		3.6				
9 -TAIL			2.9			
O -BODY		38.7	8.7			0.7
1 -NACFLLF						0.1
2 -FLEVON		10.1		-		
SFAIRLFAD-ALL SYSTEMS		0.2	7 (*			
4		0.2	1.5			
SCOLUMN TOTALS		ole c				
6PAGE TOTAL		246.6	70.1			26.3
FDAGE TOTAL						343.0

<sup>\*</sup> FROM MAIN DISTRIBUTION POINT TO ACTUATING UNIT.

2			
3	TNBOARD	CENTER	DUTBOAR
4FNGINE MOUNT-FORWARD	12.1		
5 AFT	19.4		
6SUPPORT BAY			
TVIBRATION ABSORBERS			
8			
9			
INACELLE STRUCTURE			
11 BULKHEADS AND FRAMES			
12 COVER AND STIFFFNERS			
13 FITTINGS			
14 LONGFRONS			
15 ATTACHING ANGLES, FTC			
16			
17			
18			
19PYLON AND STRUTS			
20 STRUIS			
21			
22			
23*FTRFWALL			
PEFIRE PROTECTION SHROUDS			
26			
PROWLING			
28 ENGINE COWL			
29			
30			
31			
33			
34			
35 BAFFLES			
36 ACCESSORY COWL OR SKIRT			
37 COWL FLAPS			
38 COWL FLAP CONT + MECH			
39			
40			
41			
4.2			
43			
44			
SFAIRING-NAC TO WING-PYLON			
46 STEPS AND GRIPS			
TWORKING PLATFORMS-BUILT IN			
ARINTERNAL WALKWAYS			
19			
50			
51 INSTALLATION HARDWARF			
52			
53			
SABRACKETS-TRACK-FNG REMOVAL			
	39:6		
SSCOLUMN TOTALS	20 0		

2	ENGINE	BEAR BOX	SUPER-	** ATR	EXHAUST	COOLIN
3	INSTL	+ DRIVES	CHARGER			SYSTEM
4FNGINE INSTALLATION	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
5* ENGINE						
6 AFTERBURNER						
7* FNGINE AND AFTERBURNER	E816 0					
8 REDUCTION GEAR BOX	5816.0					
9 FXTENSION DRIVE SHAFT						
O CATCOLON DELLA CITAL						
1ACCESS. GEAR BOX + DRIVES						
?						
SUPERCHARGER-FOR TURBOS						
4 LUBRICATING SYSTEM			-			
5 SUPPORTS						
6 CONTROLS						
7 PIPING-EXH TO SUPCHER						-
R CATAIR INDUCTION SYSTEM				**		
9**AIR INDUCTION SYSTEM				<b>茶茶</b>		
O INTERCOOLERS + SUPPORTS						
ATR DUCTS AND SHROUDING						
2 INTAKE DOORS + CONTROLS						
3 AIR FILTERS						
4 SCREENS AND CONTROLS						
5						
6						
7						
REXHAUST SYSTEM						
EXHAUST STACKS						
TYHAUST COLLECTORS						
COLLECTOR OR FNG SHROUD						
TAILPIPF						
FIGURE SHROUD + INSUL					310.5	
34 TAIL CONE						
SILENCING DEVICES						
SUPPORTS, BRACKETS, ETC					10.1	
37						
38						
SOCOOLING SYSTEM						
ADTATOR AND SUPPORTS						
DUCTS-ENGINE SHROUD						20 E
FXPANSION TANK + SUPTS						30.5
3 LIO IN SYSTEM- GAL						
4 PIPING, VENTS, CLAMPS, FTC			-			
S JET PUMP SYSTEM						
6 INSULATION-STRUCTURE						1. 0
7 FANS						4.9
8 CONTRAVANES						
9 FAN DRIVES						
O CONTROLS + OPER MECH						
1						9.0
2						
3						
4						
SCOLUMN TOTALS	50.7					
THE RESIDENCE OF THE PARTY OF T	5816.0				320.6	44.4
6PAGE TOTAL					The second second	6181.0

<sup>\*</sup> AS INSTALLED WEIGHT

<sup>\*\*</sup> SEF PAGE 20A

# PROPULSION GROUP MAIN AIR INDUCTION SYSTEM

PAGF 27 MODEL F-106A REPORT ZW-8-519

2	INLET	STA 280-	-STA 376-	STA 428-	STA 472-	FAIRIN
3	STA 245		STA 428		AFT	
4	STA 280					
5	010 200					
6						
7						
8						-
9	-	-				
0		-				
1			-			
2	-					
3			-			
4	-		-	-		
5						
6						
7						
8		-				
GENGINE AIR DUCTS						
O SKIN-INTERIOR	38.7	44.1	133.8	17.8		
1 -FXTERIOR	28.7	20.7			-	
2 FNGINF NOSE FAIRING						
RIBS, FRAMES + STIFF.	101.7	50.6	64.3			
4 FITTINGS	61.9					
5 CLIPS + ANGLES			9.0	2.6		
6 STANDARD PARTS	1.7			2.0		
7 SFALS + RETAINERS					8.9	
8 SUPPORTS						
SCROLL				23.2		
ODUCTS-BOUNDARY LAYER	11.8	7.2				
INARIARLE RAMP-RLEED	20.8					
2						
3 -DUCTS + STRUCTURE		202.3				
4 -MFCH		79.2				
5						
6 -OPFRATING SYSTEM		12.8				
7 -EMERG OPER SYSTEM		15.1				
8		100				
9FNGINE NOSE FAIRING						30.0
0						10.0
1						-
?						
3 4 5 6						
5						
6						
7						
ACOMPRESSOR RELIFF SYSTEM						
9 DHCTS						
0					6.1	
1						
2						
3 INTERIOR FINISH						
4						
SCOLUMN TOTALS						
6PAGE TOTAL	265.3	432.0	207.1	45.6	15.0	10.0
7						975.0

### PROPULSION GROUP LUBRICATING AND FUEL SYSTEMS

PAGF 28 MODEL F-106A REPORT ZW-8-519

1	X AUXI	TARY X	X MAI	IN
PTANKS (WING FUEL TANKS ARE	LURRI-	-	LUBRI-	
SINTEGRAL TO THE WING AND	CATING	FUFL	CATING	FUEL
4ARE INCLUDED IN THE WING				
SWEIGHTS . FUSELAGE FUEL				
STANKS ARE INTEGRAL TO THE				
7FUSFLAGE AND ARE INCLUDED				
RIN THE FUSELAGE WEIGHTS				
OFOR CAPACITIES SEE PAGE 88.				
MOIL TANKS CONCERNED ARE				
TINTEGRAL TO THE ENGINE AND				
PARE INCLUDED IN THE				
SENGINE WEIGHTS.)				
4				
SVENT SYSTEM-F TANK				36.1
6 -WING TANKS-INTERNAL				54.7
7				77.1
8				
O STATES TABLE COALS A SEALAND				102
OINTEG TANK SFALS + SFALANT				101.4
IBACKING BOARD				
TANK SUPPORTS AND PADDING				
STANK BAY SFALING				
4				
STANK RELEASE AND CONTROLS		39.7		
601L COOLING INSTALLATION				
7* COOLFRS AND SUPPORTS	10.9			
8 DUCTS AND SHUTTERS	10.9			
9 AUTO OIL TEMP VALVE				
O SHUTTER CONTROLS	13.6			
1 SCUPPER-FILLER			1.1	
FUEL VAPOR RECOVERY				
3				
401L DILUTION SYSTEM				
SOIL AREATHER			1.9	
6VAPOR INERTION-CYL + SUPT			1.7	
7 -GENERATOR				
8 -CONTROLS				
SPUMP INSTALLATION OTY				
O FNGINE DRIVEN				
1 BOOSTER 4				11 0
2 HAND-INCL CONTROLS				44.8
3C.G. CONTTRNS. SYSTBODY				
4 -WING				115.2
5C.G. CONTR. BLEFD ATR SYST				86.2
6FILLING SYSTEM-GROUND				62.0
				31.5
AWARNING SYSTEMS LOW PRESSURE			1.6	18.1
9DISTRIBUTION SYSTEM	9.3			78.2
OTRANSFER SYSTEM		8.7		53.4
IVENT SYSTEM				
2PRESSURIZATION SYSTEM		18.6		13.7
3 SCAVENCE SYSTEM		10.0		
4DRAINS	0.5		3.0	5.3
SCOLUMN TOTALS	45.2	67.0	5.8	710.0
		0.7-0	In 19	

<sup>\*</sup> AUXILIARY OIL COOLFR-OTY 1,

AN 9102-D-TAR
NAME CONVAIR
DATE 15 November 1959

PAGE 29 MODEL F-106A REPORT ZW-8-519

2	WATER	ENGINE	STARTING	PROP
3		CONTROLS		INST
4WATER INJECTION SYSTEM				
5 * TANKS				
6 PLIMPS				
7 METERING UNIT				
8 VALVES AND PLUMBING				
9 CONTROLS				
O				
1				
PENGINE CONTROLS				-
3 IGNITION		2.3		-
4 THROTTLE		21.3		
5 AUTOMATIC THROTTLE ACTU		61.0		
6***SUPERCHARGER		-		
7 AFTERURNER		4.4		
R		7.7		
9				-
OSTARTING SYSTEM			-	-
1 POWER UNIT-TYPE			48.4	
2 STARTER-TYPE-COMBUSTION 3 STARTER CONTROLS			40.4	
3 STARTER CONTROLS 4 CRANK AND EXTENSION		-		
5 PLUG + RCPT-OUICK DISC.				
6 MESHING SOLENOID			2.0	
7 CIRCUITRY			3.9	
8 DUCT - EXHAUST 9 VALVES + PLUMRING			1.1	
			5.1	
O SHROUD + INSULATION				
PROPELLER INSTL-DIA				
3 PROPELLER-OTY				
4 CUFFS				-
5 SPINNER				
6 CONTROLS-TYPE GFAF				
7 SPEFD				
8 PITCH				
9 FEATHER				
0 REVERSE				
1				
2				
3				
4				
5				
6				
7**OIL GAL			0.5	
A**TANK AND PLUMBING				
9				
<b>1</b>				
2				
3				-
4				
SCOLIMN TOTALS		00 0	50.0	
SPAGE TOTAL		28.0	59.0	_
TTOTAL-PROPULSION GROUP - PG 20, 20A				87.0

\*\* WATER TANKS-OTY , GAL PER TANK \*\* WHEN SEPARATE OIL SYSTEM IS USED.

# INSTRUMENT AND NAVIGATIONAL FOUIPMENT GROUP INSTRUMENTS

PAGE 30 MODEL F-106A REPORT ZW-8-519

		-		INSTRA
FUNCTIONAL GROUPS		TRANSM	211071	POWER
AND ITEMS QTY	INDIC	+ AMPL	INSTL	SYSTEM
4				
5				-
SAIR SPEED-STANDRY	1.0		6.7	
TAIR SPEED-MACHMETER 1	10.1	11.2	3.9	
BALTIMETER	1.5			
GYRO HORIZON	7.9		0.1	
D HON 12 ON				
ATE MC-1				
COMPASS		43.7	9.4	
		73.1	7.7	
BACCFLFROMFTER	7.0	2 0	06	-
4HORIZ SITUATION 60-6308	7.9	3.8	0.6	-
5				
GALTIMETER-VERT SPEED	10.0	7.7	0.6	
7				
R				
9				
OSTANDRY COMPASS 1	0.7		0.2	
1				
?				
3				
4CLOCK 1	0.5			
SPRESS RATIO IND SYSTEM 1,1		EE	63	
FREE AIR TEMP IND SYSTEM	1.2	5.5	6.3	
			0.4	
7				
8				
0				
OCORRECTION CARD				
IREFERENCE CARDS				
2				
3				
AMACH INLET DUCT				
STURRINE OUTLET TEMP. 1	0.8		6.0	
FUEL QUANTITY SYSTEM 1	1.5	4.1	14.1	
TTACHOMETER 1,1				
R	0.8	0.5	1.1	
	2	- 1		
	0.4	2.4	3.0	
ODIL PRESS	0.4	1.4	2.1	
FUFL FLOWMFTFR 1,1	0.5	7.5	0.7	
3				
4				
5				
6				
70XYGEN QUANTITY SYSTEM			0.0	
R			0.2	
9				
0				
1				
2				
3POWER SYSTEM				0.
4STANDARD PARTS			0.8	V.
SCOLIMN TOTALS	45.2	87.8	56.2	0.1
STOTAL-INSTRUMENTS			1 113	

LIST ITEMS BY FUNCTIONAL GROUPS- FLIGHT, FNGINF + MISC. LIST SUB-GROUPS BY CREW STATION. ADD SUPPLEMENTAL PAGE 26A IF NECESSARY.

NAME CONVAIR

PAGE 31 MODEL F-106A REPORT ZW-8-519

1	X H	HYDRAULIC XX PNEUMATIC		
2		DRAULIC	A PNOMATI	
3	UTILITY	FMFRG	UTILITY EMERG	
4 PUMPS , COMPRESSORS MODEL				
5 PUMPS - VARIABLE VOLUME 6 COMPRESSOR	56.4			
7 RAM ATR TURBINE		13.0		
RACTUATION-RAM ATR TURBINE		4.3		
OMECHANISM-RAM AIR TURBINE		1.7		
OCONTROLS-RAM AIR TURBINE		1.4		
PREMOTE PUMP DRIVES				
3 OTY CAP.FA				
4RESERVOIRS, SECONDARYI 400	12.1			
SRESERVOIRS, PRIMARY 1 400	11.1			
GAIR BOTTLES 2 2380			93.5	
TAIR IN BOTTLES			42.8	
8				
PACCHMULATORS 2	9.3			
OATR IN ACCUMULATORS	0.2			
TFILTERS	3.4			
PPRESSURE REGULATORS			3.2	
RESERVOIR PRESSURE SYSTEM	5.2			
PAVALVES	4.8	1.3	5.9	
75				
6SHROUDING + COOLING	29.0			
77				
78				
29				
BOCONTROLS			0.6	
31				
32				
33				
34LOW PRESSURE WARNING	5.8		0.4	
SPLUMBING	41.6	4.4	22.5	
36				
37				
BRELUID IN SYSTEM	39.0	0.6		
TYPF				
O CAPACITY GAL				
1				
2 SUPPORTS-WING				
-TAIL	0.1			
-RODY	9.6	1.1	6.7	
-NACFLLE				
FURNISHES POWER FOR **				
HYDRAULICS SYSTEM OPERATES	LANDING GE	AR AND DO	DRS, FLIGHT CONTROL SURFACES,	
SPEED BRAKES, VARIABLE RAMP	, RAM ATR	PURBINE,	AND EMERGENCY AC GENERATOR.	
0				
O PNEUMATIC SYSTEM OPERATES M	ESSTIE BAY	DOORS, L.	MUNCHING GEAR, DRAG CHIFTE.	
COMBUSTION STARTER, LANDING	GEAR BRAN	ES RATI TO	TENSTAN GVOTEN DITTORD	
ARTIFICIAL FEEL SYSTEM. AND	THE FOLLO	JING EMER	PMOV CVORDAG. TANKTAYO CHAD	
AND DOORS, SPEEDBRAKES, FUE	L TRANSFER	COCKPIT	PRESSIDE AUTON WARTABLE	
RATE RETRACTION, AND CONTRO	L OF CSD A	TR-OIL CO	DLER ATR VALVE.	
SCOLUMN TOTALS	227.6	27.8	175.6	
6PAGE TOTAL			1171	431.0
TTOTAL-HYDRAULIC AND PHEUMA	TIC GRANE			431.0

SYSTEM PRESSURE PS1 3000 3000 3000

<sup>\*</sup> INCLUDES SYSTEM FROM SOURCES OF POWER TO MAIN DISTRIBUTION POINTS. \*\* LIST ITEMS AND INDICATE H-HYDRAULIC, P-PNFUMATIC

2		POWER	POWER	DISTR	LIGHTS-	FOUTP.
2		SUPPLY	CONVER	+ CONT	SIGNALS	
4POWER SUPPLY *KVA VOLT	OTY					
5 GENERATORS	1911					
6 EMERG GEN 3.5 120/2	08 7	17.5				
7 ALTERNATOR 22 120/201		49.6				
8		17.0				
9						
O REMOTE GENERATOR DRIV	/FC	226.2				
1 EMRGNCY GENERATOR DR		12.0				
?	T V T	16.0				
3						
4POWER CONVERSION	OTY					
5 CONVERTER AC-DC	911					
6 TRANSFORMER						
7 RECTIFIER						
MOTOR-GENERATOR						
9 PHASE ADAPTER						
O FREQUENCY CONVERTER						
PAL GOENCE CONVERTER						
22						
23						
4POWER DISTRIBUTION + CO	CALT					
S GENERATOR CONTROL BO				F 2		
CUTOUTS , VOLT , REGULA				5.3		
AMMETERS AND VOLTMET				21.0		
8 SWITCHES, RHEO + PAN				0.0		
CIRCUIT BREAKERS + FI				0.2		
BO BOXES + PANELS	USES			0.2		
RECEPT + CONNECTOR PI	lice			1.4		
32 RFLAYS	1003			14.7		
33 WIRING				5.8		
34 CONDUIT				29.4		
35			-	0.3		
BELIGHTS AND SIGNAL DEVI	er e					
T LIGHTS-INTERIOR	-				0.6	
SE -FXTERIOR					8.6	
-LANDING-INCL MECH					9.7	
SIGNAL DEVICES-LIGHT	c					
-HORMS	2					
-BFLLS						
-BFELS						
SEQUIPMENT SUPPORTS-WING						
	9					
FORT						
8						64.3
OFURNISHES POWER FOR						
0						
1						
2						
3						
4						
SCOLUMN TOTALS		305.3		78.3	18.3	64.1
STOTAL-AC SYSTEM				1		466.0

\* DRIVEN BY- 5 , 6 HYDRAULICS 7 ENGINE , 8 , 9

\*\* INCLUDES SYSTEM FROM SOURCE OF POWER TO MAIN DISTRIBUTION POINTS.

2	POWER	POWER	DISTR	LIGHTS-	FOUTP.
3	SUPPLY	CONVER	+ CONT	SIGNALS	SUPPORT
APOWER SUPPLY WOLT AMP OTY					
5 GENERATORS					
6 GENERATOR-100 AMP	37.5				
7					
8					
0					
O REMOTE GENERATOR DRIVES					
1 BATTERY	31.0				
2 BATTERY CONTAINER, SUPTS	0.5				
3					
4POWER CONVERSION OTY					
5 INVERTER DC-AC					
6 MOTOR-GENERATOR					
7					
A					
0					
0					
1					
?					
3					
4POWER DISTRIBUTION + CONT				-	
5 GENERATOR CONTROL BOXES					-
6 CUTOUTS , VOLT . REGULATORS			6.0		-
7 AMMETERS AND VOLTMETERS			0.0		
8 SWITCHES, RHEO + PANELS			0.1		
CIRCUIT BREAKERS + FUSES			0.1		
O JUNCT, FUSE + DIST ROYES			0.7		
RECEPT + CONNECTOR PLUGS			0.0		
2 RFLAYS			0.2		
2 WIRING			2.2		
4 CONDUIT			13.9		
5					
6LIGHTS AND SIGNAL DEVICES					
7 LIGHTS-INTERIOR					
R -FXTFRIOR-TAIL				8.9	
9 -LANDING-INCL MECH				13.3	
				7.7	
1 SIGNAL DEVICES-LIGHTS 2 -HORNS				7.1	
3 -RFLLS					
4 SECULEDADA CURRORA CARROLLA					
5 FOUIPMENT SUPPORTS-WING					
6 -TAIL					
7 -RODY					10.9
8 -MACFLLF					
9FURNISHES POWER FOR					
0					
1					
?					
3					
4					
SCOLUMN TOTALS	69.0		23.1	37.0	10.9
STOTAL-DC SYSTEM					

\* DRIVEN BY- 5 , 6 ENGINE , 7 , 8 , 9 \*\* INCLUDES SYSTEM FROM SOURCE OF POWER TO MAIN DISTRIBUTION POINTS.

1 * FOULPMENT COMPONENTS AND	X FOUIPA	IPMENT XX		
2 PART NUMBERS OR IDENT	MA~7			
2 LIST BY FUNCTIONAL GROUPS	GFAF	CEF	INSTL	
4RADAR				
5 SILICA DESS. 463097	3.8			
6 DEHYDRATOR 463097	3.8			
7 SYNCH-MASTER TIMER464003	5.6			
8 WAVEGUIDE 464016	1.0			
9 ANTENNA 464017	72.5			
O CONVERTER-AGC 464020	7.1			
	1.8			
1 GAGE-PRESSURE 464024	10.3			
2 AMP-TORO RATE GYRO464041	8.2		-	
3 COMPRESCOR-AIR 464045				
4 SWITCH BOX-TEST 464063	3.1			
5 TRANSCETVER 464065	170.0			
6 GATE-CUTTER 464082	6.5			
7 COUPLER-DRCTNL 464084	0.6			
8 OSCILLATOR-REPET 464203	3.0			
9 AMPL-VID-TRACK 464095	5.5			
0 TEST SET -1 464096	3.3		-	
1 SYNCH-RANGE TRACK 464103	6.8			
22 AMP-AZIMUTH DRIVE 464106	10.3			
VALVE-PEG-PRESS 464107	2.5			
4 AMPL-ANT-TRACK 464141	10.0			
5 COMPARATOR-ANTI 464150	7.2			
% DUCT-COOL RCVR 464190	3.6			
77 AMP-SWP-GEN-IND 464195	6.5			
28 TEST SET-2 464196	2.6	-		
9 AMPL-ANT-SERVO 464206	7.8	-		
BO CHURTR-ATCK DSPLY 464223	8.4		-	
AMPL-ANT. CONTR 464741				
AMP-INTERMED FRED 464295	10.6			
WAVEGUIDE 464316	5.0			
AMP-FILT STEER SIG464341	1.2		-	
SE CMPUTR-STEER SIG 464346	8.4			
GEN-SWEEP IND 464389	6.6			
AMP-MOD-ATK DSPLY 464395	5.8			
	7.0			
	12.6			
AMP SYNCH-AMTI 464495	4.4			
40 AMP-FLEV.DRIVE 464506	9.0			
41 CNVRTR-TIME SHAR 464523	7.9			
+2 OSCILLATOR RATE 464093	3.3			
+3 FSTMP-MA-1 ANT	1.4			
44 TUBING-RADAR				
(5)				
-6				
-7				
18				
90		-		
0				
1				
32				
12				
34				
SCOLUMN TOTALS				
	455.0			
SEPAGE TOTAL			455.0	

<sup>\*</sup> LIST COMPONENTS- INCL RADOMES, MTS, ANT, SWITCHES, RELAYS, FILTERS, ETC FROM MAIN DISTRIBUTION POINT TO UNIT OPERATED, BY FUNCTIONAL GROUPS-F.G. COM, VHF, SFARCH, NAV, INTERCOMM, ETC. ADD SUPPLEMENTAL PG 31A IF NEC.

NAME CONVAIR

FLECTRONICS GROUP

MA-1

PAGE 35

MODEL F-106A REPORT ZW-8-519

	X FOUIP	MENT XX
	MA-1 GFAE	CEE THET
4 COMPUTER	GFAE	CFF INST
S CNVRTR-AC-INPUT 464023	9.5	
	9.3	
CMPRTR-ANLG DIGT 464050	7.2	
OFFICE BROKE SALE TOTOT	32.6	
	14.6	
RELAY-DIGOUTPUT 464064		
CONVERTER-ANALG-DC464123	13.9	
COMPUTER-ARITH DIG464146	25.8	
MEMORY-SHIFT REG. 464157	11.7	
CONTROL-DATA 464755	23.4	
4 TEST SET-DIG 464296	12.6	
5 INTERCONNECT BOX 464318	5.7	
6 CNVRTR-SIG DATA 464373	9.6	
7 COMPUTER-DIG CONT 464446	20.5	
A AMP-MEMORY READ 464457	17.8	
9 GENERATOR-PULSE-CL464489	6.5	
0 GATES-D10DF 464657	9.3	
2		
3		
4FLIGHT CONTROL SYSTEM		
5 AMPLIFIFR-AFRO 464021	6.2	
6 AMP-CONT SURF 464121	11.9	
7 GYRO-R+O RATE 464127	3.8	
ACCELEROMETER 464161	3.4	
9 AMP-NAV+APPROCH 464221	13.6	
AMP-ATTO MEM 464321	The second secon	
1 AMP-STEER CNVRTR 464421	12.3	
AMP-AUTO ATTCK 464621	12.4	
3	12.4	
4		
5		
TMISSILF SUB-SYSTEM CONTROL-GYRO 464008		
	11.5	
TOTOT	7.6	
PWR SUP SPEC ARM 464087	8.2	
REL ARM CONT 464264	7.5	
AMPLIFIFR-ANT 464266	9.3	
REL-PRMTR SET 464364	10.5	
AMP-MIS ANT TEST 464366	5.3	
RELAY-MODE SEL 464464	6.3	
TEST SET-ARM 464496	4.8	
PNL-TEST ELECT ARM464596	3.5	
AMP-XMTR TUNE 464866	13.5	
	13.7	
COLUMN TOTALS	394.0	

### FLECTRONICS GROUP MA-1

PAGF 36 MODEL F-106A REPORT ZW-8-519

		X FOUTPH	FNT :	(X
		MA-1		
	GEAE	GFAF	CFF	INSTL
AFLIGHT SENSING SYSTEM				
5 AMP-IMPACT TEMP				
6 AMP-INTEGRATOR 464009		14.5		
7 ACCELEROMETER 464061		2.2		
8 AMPLIFIER-RLL+PTCH464109		8.4		
9 DEMODULATOR 464209		3.8		
O STABLE ELEMENT 464289		55.8		
AMPL-AZIMUTH 464309		12.6		
2 CNVRTR-SIG DAT ALT464320		5.0		
3 TEST SET C + N 464396		8.0		
		8.1		
		36.5		
6 COMPUTER-AIR DATA 464646				
7 CMPNSTR-AIR DATA 464721		9.1		
8				
9				
0			•	
1COMM NAV + LANDING SYSTEM				
2 XMTR COMM UHF 464059		23.0		
3 RCVR DATA LINK 464667		26.2		
4 ANT-ADF 464117		10.8		
25 RCVR-TACAN 464129		25.3		
26 RCVR-UHF 464167		26.0		
27 TUNER-RF UHF 464225		9.5		
28 MOD CODER-TACAN 464229		16.0		
29 RCVR R-771/ARN-51 464267		9.5		
RANGE XMTR-TACAN 464329		9.5		
31 RCVR R-772/ARN-51 464367		8.5		
32 PWR SUPPLY 464392		12.2		
BEARING XMTR TACAN464429		14.8		
34 AMPL-ADF 464606		9.6		
35 CNVRTR-TIME DIV 464220				
36				
37				
38				
39MULTIPLEXING IFF TACAN				
O BROFICON RCVR				
1 ANT-BRECN				
12 INTERPHONE JACK				
SFLT DIR CMPTR 60-6309				
44XMTR RT TURN GYRO 60-6311				
5ACCEL 60-6300				
6GYRO-SW.RT. 60-5938				
17				
18				
MINDOW-ADE ANTENNA				
O ANTENNA				-
51				
			-	
3				
4				
SCOLUMN TOTALS		394.0		
SEPAGE TOTAL				394.0

4		X EQUIPM	FNT	×		
2		MA-1	to INT			
2		GFAE	CFE	SUPPOR		
4						
50	OWER SUPPLY					
6	INTERCONNECT BX 1 464018	6.8				
7	REACTOR-(2)40 MH 464035	25.8				
-	RFLAY 464062	5.3				
8	GENERATOR-AC/DC 464089	69.4				
0	FILTER DC + 300V 464092	5.3				
1	INTERCONNECT BX 2 464118	5.3				
2	ANTENCOMINECT DA E 404110					
3	REACTOR-100 MH 464135	10.8				
4	RELAY-PWR XFER 464162	25.2				
5	GENERATOR-DC 464189	31.0				
16	PWR SUPPLY-250V 464192	20.6				
7	404177					
8	REGULATOR-+ 100V 464292	4.3				
19	POWER SUPPLU-DC 464326	10.3				
20	REGULATOR-115/55V 464491	10.8				
21	FILTER: DC + 300V 464591	6.8				
22	REGULATOR-DC+28V 464692	12.8				
23	FILTER-DC-140V 464791	5.3				
24	REGULATOR-DC+150V 464792	10.0				
25	FILTER-DC-150V 464891	3.9	7			
26	REG-400/1600CPS 464892	21.8				
27	FILTER DC + 150V 464991	4.5				
28	11E1ER DC + 150V 484991	7.2				
29						
20						
30			-			
	ISCELLANEOUS					
33	RECORDER + RACK 464149	05.0				
34	PANEL-TEST CONTROL 464796	25.0		1		
35	PANEL-TEST CONTROL464796	2.0				
36						
37						
0 1						
38						
+0						
41						
10						
+3						
44						
15						
+6						
+1						
18						
+9						
0						
1						
52						
3						
4						
	OLUMN TOTALS	324.0				
5 C	AGE TOTAL	2211				

### ELECTRONICS GROUP MA-1

PAGE 38 MODEL F-106A REPORT ZW-8-519

1			X FOUTP	MENT :	XX
3			GFAE	CFE	INSTL
3			OFAL		
4					
5					
6					
7					
8					
9					
0					
	INTIFICATION IR				
	DUPLEXER CU-	464032	3.9		
3 1	SOLATOR(2)	464079	1.6		
4 A	MP-OSCILL	464108	5.6		
	VAVEGUIDE	464116	1.9		
	UPLEXER CU-462	464132	4.6		
	W-WAVEGUIDE	464152	3.0		
	RANSMITTER	464159	9.1		
	ET RADAR SIG	464279	0.4		
	OUPLER CU	464284	0.3		
	SYNCHRONIZER	464303	5.3		
2	THEIMONIZER	404303	7.3		
	MP-CONVERTER	LEASER	7.1		
	MP-SYNCH	464566	7.1		
		464567	0.2		-
	NTIFICATION XP	171670	26		
	SOLATOR(2)	464079	1.6		
	MP-OSCILL	464108	5.3		
	RANSMITTER-T-42		9.1		
	DUPLEXER-CU-460	464232	3.9		
	SW-WAVEGUIDE	464252	3.0		
	DET-RADAR SIGNAL	464279	0.4		
	CAVITY-TUNED	464332	2.6		
3 5	SYNCHR-AMP	464333	7.5		
4					
5	COUPLER-CU-457	464384	0.5		
	CONTROL AMP. CONV	464666	7.1		
7					
BIDE	ENTIFICATION-GRN	)-AIR			
	CODER-DECODER	464028	12.6		
	SW-RF XMSSN	464263	6.1		
	CVR-XMTR	464265	29.3		
2			57.3		
3				-	
4					
5					
6					
7				-	
8					
9					
0					
1					
2					
3					
4					
5 COL	UMN TOTALS		140.0		
	E TOTAL		150.0	1	140.0

1			X EQUIPA	UIPMENT XX		
2			MA-1	10-17		
3		GFAE	GFAE	CFE	INSTL	
4COCKPIT DISPLAY					-	
5 CONTROL-INDICATO	DR .					
6 FILTER-LIGHT	464025		1.3		-	
7 ANNUNCIATOR	464034		0.1			
8 IND-SEARC + ATTI	464080		18.0		-	
9 FLT CONT-A/C+RDI	3 464083		4.3			
d VISOR IND	464125		0.4			
1 CONT-FLT MODES	464163		3.5			
2 SIGHT-NON CMPTNO			5.1			
3 TACT SIT DISPLA			82.0		-	
4 CONTROL RADAR	464305		1.9			
5 CONTROL, CHANNEL	464355		2.5			
6 CONT-CHURTE RCVI	2 464019		2.5			
7 CONT-TACAN	464405		2.8			
8 SW-BEARING SEL .	464463		0.5			
9 CONT-FRED COMM	464505		5.8			
O CHURTH-SIG DATA	464520		20.3			
1 CONT-RADAR FIS	464555		1.3			
2 CONTROL	464605		3.0			
3 CNVRTR-SIG DATA	464620		17.8			
4 CONT-CODER	464655		0.9			
5 CONT-ILAS	464755		1.3			
6 RADAR CONT AZM	464855		1.6			
7 CONTROL-POWER	464905		3.3			
8 CONT-AUTO NAV	464955		0.8			
					-	
O IND-FREO CHNNL	10-5/2					
2						
3						
4RACK-RDR IND	464002		1.1	-		
5 -LH FWD	464073		77.0	-		
6 -RH FWD	464074		45.0		-	
7 -HORIZ IND			3.9			
8 -ANT-RADAR	464173		24.5			
9 -UPR RH AFT			50.7			
O -RH FWD	464273		84.2			
1 -AFT APX-27	464274		5.4			
2 -STBL PLTERM			18.1			
3 -XCVR-APX			1.3			
4 -STBL ELEM			5.5			
5 -CODR-APX 19			1.0			
6 -CMPNSTR AIR DATA			1.0			
7 -SIG DATA	464602		10.3			
8 -ALT RATE	464611		1.5			
9 -CNVRTR AIR DATA	464673		2.4			
O -DEHYD	464674		0.9			
1 -CMPTR ATR DATA			4.5			
2 464774	+ 464811		0.9			
	464873		18.8			
3 -AFCS						
4 -SYN-APX-27	464973		1.0			
3 -AFCS 4 -SYN-APX-27 5COLUMN TOTAL 6PAGE TOTAL	464973		1.0			

### ELECTRONICS GROUP MA-1

PAGE 40
MODEL F-106A
REPORT ZW-8-519

1		X FOUTPM	MENT XX		
2	CELATE	MA-1			
3	GFAE	GFAE	CFE	INSTL	
4					
SCABLING				351.	
O CASEINS					
1					
2					
3					
COMPUTER 60-6309	10.9				
GYRO TRANSMITTER 60-6311	3.7				
ACCELEROMETER 60-6300	1.4				
7 SWITCH-GYRO 60-5938 INDICATOR 81-3382	1.4				
8 INDICATOR 81-3382	1.0				
TRANSDUCER 60-1603	2.2		-	-	
0				-	
1				-	
2 MIRING			E 2		
3 TUBING 4 ANTENNAS			26.8	18.7	
			8.9	10.	
5 SWITCHES , RELAYS , CB , ETC			0.9		
6				2.5	
7EQUIPMENT BRACKETRY				5.	
MOUNTING FOR SIGHT				4.7	
0					
1					
2PROBE-FREE AIR TEMP	0.4				
3					
4PITCH + YAW TRANSDUCER				1.0	
ELECTRONIC				7.8	
7					
MISCELLANEOUS SUPPORTS				22.6	
GIPPOPE DADAD GGODE					
SUPPORT-RADAR SCOPE				3.7	
SUPPORT-SITUATION DISPLAY					
				3.0	
4 RADAR					
5				5.3	
6SUPPORTS-HARNESS					
7				5.0	
8					
9					
1					
2					
3					
4					
	0.0		1	Lan	
5 COLUMN TOTALS 6 PAGE TOTAL	21.0		41.0	425.0	

PAGE 41 MODEL F-106A REPORT ZW-8-519

AN 9102-D-TAB NAME CONVAIR

	MISSILE	MB-1	COMMON
3		SYSTEM	INST
ROCKET INSTALLATION			
TUBES			
DISPLACING GEAR			
7			
e e e e e e e e e e e e e e e e e e e			
MISSILE INSTALLATION			
2**L AUNCHER	86.3		
DISPLACING GEAR-FWD	103.8		
4 DISPLACING GEAR- AFT	74.0		
TRUNNIONS-DISPLOGEAR	17.6		
6 UPLOCKS	14.1		
7 SNUBBERS	6.8		
8 SUPPORTS	57.8		
9 CAM HOLDBACKS	1.6		
0 MB-1 INSTALLATION	1.0		
1 EJECTOR + RACK		E0 0	
NOSE DEFLECTOR		52.9	
3 SUPPORT-FWD CONSOLE RH		0.5	
4 LANYARDS		7 2	
5		1.3	
6 CHOCKS		1 0	
7 SUPPORTS-CHOCK STRUCT		1.9	
8		0.8	
9			
ODISPLACING GEAR ACTUATION			
1 ACTUATOR-PNEUMATIC	70.6		
2	70.6		
3 VALVES			
4 PLUMBING	3.3		
5 FLUID	21.8		
6 SUPPORTS			
7	5.4		
8			
9BLAST + EXHAUST PROTECTION			
O EXHAUST PANS			
1 BLAST SHIELDS + LINERS			
2 GAS EXHAUST SYSTEM	22.0		
3 GAS SEALS	1.8		
SELECTRICAL CONTROLS			
6* CIRCUITRY	10.7	6.6	42.0
7 TIMER CHARGE CONTROL			
INDICATORS	0.5		
INTERVALOMETER	0.5		
n RFLAYS	1.3	1.1	0.3
1 SUPPORTS			2.3
BONDING CONNECTION			0.9
BORESIGHT PROVISIONS			1.6
AATTACH BOLTS, NUTS, ETC.			
COLUMN TOTALS	505.8	73.1	47.1
SPAGE TOTAL	707.0	1000	626.0

<sup>\*</sup> FROM MAIN DISTRIBUTION POINT TO ACTUATING UNIT. \*\* IF NOT SPECIFIED AS USEFUL LOAD OR SPECIAL EQUIPMENT.

PAGE 42 MODEL F-106A REPORT ZW-8-519

1	X CREW	SEATS X	T 1	1
2		ASST	OXYGEN	MISC
3	PILOT	PILOT	INSTL	ACCOM
4SEATS AND CHAIRS				
5 CUSHION				
6 SEAT	63.3			
7 SAFETY BELT	4.2			
8 HARNESS + INERTIA REEL	3.8			
9 ADJUSTING MECHANISM	7.9			
IN CATAPULT OR EJECT. MECH	35.7			
11 TRACKS AND SUPPORTS	27.8			
12 HEADREST				
13 OXYGEN EQUIP-EJECTABLE				
14 HOSE + FITTINGS				
15 CARRIAGE ASSY				
16 FLOOR BEEF-UP				
17MISC ACCOMODATIONS				
18 BUNKS AND SUPPORTS				
20 LITTER SUPPORTS 21 KNEELING PADS				
22 PARACHUTE STOWAGE PROV				
23 TOILET AND RELIEF TUBES				
26 DRINKING WATER PROV				
27 LOCKERS-FOOD				
28 LOCKERS-PERSONAL EFFECTS				
29				
30				
31				
32				
33 GALLEY STOVES, HOTPLATES				
34 REFRIGERATOR				
35				
36				
37 VENTILATED SUIT				1.5
38 ANTI-G SUIT PROVISIONS				6.7
39				
400XYGEN INSTALLATION	-			
41 * BOTTLES TYPE SIZE OTY				
42				
43				
44				
45				
46 CONVERTER + LIQUID OXYG			24.3	
47* REGULATORS				
48 SUPTS-BOTTLES, CONVERTER			2.5	
49 PLUMBING, ETC			5.4	
50 FILLER VALVE INSTALL.			0.9	
51 QUANTITY GAGE + AMPLIF.			2.0	
52 MASK DEFOGGING				
53			2.0	
54				
55COLUMN TOTALS	142.7		207 3	0.0
56TOTAL-PERSONNEL ACCOMODATE			37.1	8.2
57				188.0

OXYGEN BOTTLE INCLUDING CHARGE, IF NOT SPECIFIED AS USEFUL LOAD OR SPECIAL EQUIPMENT

PAGE 43 MODEL F-106A REPORT ZW-8-519

	MISC
	FOUIP FURN
AND	FUOTE FURN
4MISCELLANEOUS EQUIPMENT	
5* PORT. PLATFORMS, LADDERS	
T DATA CASE AS HOLDER	1.5
7 DATA CASES OR HOLDERS	
8 MANUALS-FLIGHT + MAINT	
9 BALANCE COMPUTER + SUPT	
10 CHECK LIST-PILOTS	
11	
12 TOOL LOCKERS	2.0
	3.9
14 WINDSHIELD RAIN REMOVAL	30.0
15 REL MECH-TARGET + TOW	
16 CLIPS-BLIND FLYING PANEL	
17 BILGE SYSTEM	
18 STALL WARNING DEVICES	
19 REAR VIEW MIRROR	
20 WIRING+PLUG+FUSE VGH REC	
21 AUXILIARY FLOORING	21.0
22 INSTRUMENT BOARDS	14.3
23 CONSOLES	11.5
24 CONTROL STANDS	
25	
26* CARGO HANDLING EQUIPMENT	
27 RAMPS	
28 HOISTS AND BOOMS	
29 MONORAILS	
36 MONORAIL MOTORS	
31 TIE DOWN FITTINGS	
32	
33 STOWAGE	
34 PINS + PADS	0.6
35 PYROTECHNIC INSTALLATION	
36 SIGNAL PISTOL HOLDER	
37 AMMO HOLDER-CAP	
38 PARA FLARE	
39 -CONTAINER-CAP -	
46 -RACKS -CAP	
41 -RELEASE MECHANISM	
SMOKE CANDLE-HANDLE	
43	
FLOATLIGHT RACK + REL	
45 CAP	
46 FURNISHINGS	
FLOOR COVERING, RUGS ETC	6.1
48 SOUNDPROOFING + INSUL	0.
49 TRIM-COCKPIT	1.0
GO CURTAINS AND SCREENS	
51 CRASH PADDING	
PARTITIONS-NON STRUCT	
53 INSIGNIA + SERVICE MARKING	2.0
54PLATE-RUDDER STRLNE PSTN	
SSCOLUMN TOTALS	0.1
SETOTAL-MISCELLANEOUS EQUIPMENT AND FURNISHIN	68.7 11.

<sup>\*</sup> IF NOT SPECIFIED AS SPECIAL EQUIPMENT

1	X FIRE P	PREVENTIO	N + DETE	CTION SY	STEMS	XX OTHER
2	ENGINE	BAGGAGE			-	EMERO
3	COMPT	COMPT	COMPT			EOUIF
AFIRE PREVENT AND DETEC	TION					
5 BOTTLES TYPE SIZE	OTY					
6						
7						
8						
9						
10						
12 PORTABLE						
13						
14						
15						
16 CONTROLS						
17 PLUMBING						
18 BOTTLE SUPTS-FIXED E	VT					
18 BUTTLE SUPTS FIXED E	^1					
20 BOTTLE CURTS BORT S	WT					
BOTTLE SUPTS-PORT. E	XI					
22						
23 FIRE DETECTION CHARE	M 21.0					
24 FIRE DETECTION SYSTE	M					
25 FIRE REALESTAND DAINE						
26 FIRE RESISTANT PAINT						
FIRE CURTAINS						
28						
290THER EMERGENCY EQUIPM				-		
30 FIRST AID KITS + SUF	TS					
31 FLASHLIGHTS-OTY						
32			-			
33 STOWAGE-EMERG FOOD . W	ATER					
34			-			
35* LIFE RAFTS TYPE	OTY					
36						
37THERMAL RADIATION						
38						
39 LIFE RAFT SUPPORTS						
40						
41 DITCHING STATION FOL	IIP					
42						
43						
44 QUICK DISCONNECT-PIL	OTS					1.0
45						
46						
47						
48						
49						
50						
51						
52				The state of the s		
53						
54						
SCOLUMN TOTALS						1.0
STOTAL-EMERGENCY EQUIPM	FNT 21.0					22.0
	WIPMENT GROU					A STORY OF THE PERSON NAMED IN

<sup>\*</sup> IF NOT SPECIFIED AS USEFUL LOAD OR SPECIAL EQUIPMENT.

# AIR CONDITIONING AND ANTI-ICING EQUIPMENT GROUP AIR CONDITIONING

PAGE 45 MODEL F-106A REPORT ZW-8-519

2		PRESS.	AIR COND	HEATING	COOLIN
2		SYSTEM	SYSTEM	SYSTEM	
AREFRIGERATION UNIT		0.0121	91.8	0,0,0	010121
6*HEATERS-BTU EA QTY					
O*HEATERS-BIU EA WIY					
8					
q	-				
10					
ITHEATING FLUID- GAL					
12					-
13COMPRESSORS OR SUPCHGRS					
15MOTORS					
14					
16TURBINES					
17FANS					
1.8					
19SW-COCKPIT LOW PRESS WARN			0.9		1757
20TANKS			0.7		-
21WATER SEPARATOR					
22REGULATOR					
23					
24					
25 SCOOPS					
26 DUCTING					
27INSULATION-DUCT			16.7		
28DUCTING					
29 HEAT EXCHANGER			26.6		
30 BLEED AIR			40.4		
31 MISSILE BAY HEATING			4.8		
32 CABIN AIR		1.1	23.9		
33 FORWARD ELECTRONICS			18.5		-
34 AFT ELECTRONICS			4.4		-
35 FIN ELECTRONICS					
36GROUND COOLING CONNECTION			6.1		
37			8.7		
BAPRESSURE TEST FITTING					
39CONTROLS			0.4		
40 -MANUAL	-				
41					
42 -ELECTRICAL			29.8		
43					
44 -HYDRAULIC					
45					
46 -PNEUMATIC			38.6		
47			30.0		
48 SUPPORTS + BRACKETS-WING					
49 -TAIL					
50 -BODY					
51 -NACELLE			17.7		
52	-				
53					
	1				
SAPRESSURIZATION SEALING			2.6		
55 COLUMN TOTALS 56 TOTAL-AIR CONDITIONING .		1.1	331.9		

<sup>\*</sup> IF NOT SPECIFIED AS SPECIAL EQUIPMENT.

#### AN 9102-D-TAB AIR CONDITIONING AND ANTI-ICING EQUIPMENT GROUP ANTI-ICING

PAGE 46 MODEL F-106A REPORT ZW-8-519

2	ATR					
3	WING	TAIL	INDUCT.	RADOME	WINDSHLD	PITO
4*HEATERS BTU EA OTY						
5						
7						
8						
9						
O STATE SUCHANCEDO						
1*HEAT EXCHANGERS						
3						
4						
5DUCTING IN BODY			14.7			
GINSULATION-DUCT			1.7			
7						
9*B00TS						
0						
1*ATTACHING STRIPS						
301L SEPARATORS						
4						
SAIR PUMPS						
7AIR LINES AND HOSES						
8						
9TANKS				3.7		
0				3.1		
1*FLUID- GAL						
2						
3 4						
5PLUMBING				5.1		
6				7.1		
7						
BDISTRIBUTOR						
9 -VALVE				2.0		
O -CONTROLS						
2CONTROLS						
3 -MANUAL						
4 -ELECTRICAL			5.5	0.1	23.0	1.0
5 -HYDRAULIC						
6 -PNEUMATIC			4.8			
8##CIRCUITRY			2.2	0.0		0.5
SUPPORTS AND BRACKETS-WING			6.6	0.2	5.0	3.7
O -TAIL						
1 -BODY			0.7		0.6	
2 -NACELLE						
4						
SCOLUMN TOTALS			20 6	22.2	00 (	1 =
6TOTAL-ANTI-ICING			29.6	11.1	28.6	4.7
TTOTAL-AIR CONDITIONING AND	ANTTON	THE COOL	100			74.0

<sup>\*</sup> IF NOT SPECIFIED AS SPECIAL EQUIPMENT

<sup>\*\*</sup> FROM MAIN DISTRIBUTION POINT TO ACTUATING UNIT.

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AUXIL

AN 9102-D-TAB

NAME CONVAIR

PAGE 47
MODEL F-106A
REPORT ZW-8-519

1				
3	HANDLING	ARREST . CAT	TAPULT A	TO
4HANDLING GEAR				
5 ANCHOR				
6 ANCHOR LINE				
7 PENDANT + CLAMP FITTING				
8 LIZARD				
9 SHEAVES				
10 WINCH-COMPLETE				
11 WINCH CRANK				
12 ANCHOR RIG OR DAVIT				
13 WINCH ENGINE OR MOTOR				
14				
15* HOISTING SLING				
16 WING HANDLING LINES				
17 WATER RUDDER				
18 FITTINGS				
19 -RECOVERY HOOK				
20 -BEACH GEAR ATTACHMENT				
21 -TIEDOWN	0.6			
22 -JACK ING	5.5			
23 -TOWING				
24 -MOORING + SNUBBING				
25 -ANCHORAGE				
26 -LEVELING	1.9			-
27 -HOISTING	3.0			-
28	3.0			
29ARRESTING OR DECELER GEAR				-
36 TRAILING HOOK				
31 HOOK POINT-TYPE				-
32 EXTENSION GEAR				-
33 RETRIEVING GEAR				-
34 BUMPER				-
35 SHOCK ABSORBER				_
36 ATTACHMENT FITTINGS		10.0		
37 BARRIER CRASH FITTINGS		12.2		
38				-
39 DECELER-CHUTE		00 7		
40 -CONTAINER + FITTINGS		22.7		
41 -CONTROLS + MECHANISM		6.5		-
42 -EMERGENCY RELEASE		12.4		
43CATAPULTING GEAR		4.2		
44 CATAPULT FITTINGS				
45 CATAPULT HOOKS				
46 HOLD BACK FITTINGS				
47				
48ASSISTED TAKE OFF				
49 HOOKS				
CONTROLS-FIRING				
-BOTTLE RELEASE				
52				
53 BOTTLE STOWAGE PROV				
34 QTY BOTTLES-				
SCOLUMN TOTALS	11.0	58.0		
6PAGE TOTAL			60	0.6
TTOTAL-AUXILIARY GEAR GROUP			60	0.0

<sup>\*</sup> IF NOT SPECIFIED AS SPECIAL EQUIPMENT.

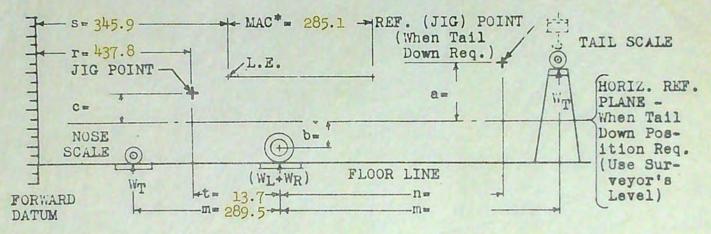
Load Condition Weight Empty
Prepared by E. J. Porter
Date 15 November 1959

Page 48
Model F-106A
Report No. ZW-8-519

#### AIRCRAFT ACTUAL WEIGHT AND HORIZONTAL BALANCE

Contract No. AF33(600)34814, Gov't. No. 58-759 , Fact. No. 115 , Art. No. 8-24-70

SCALE POSITION	SCALE NO.	SCALE READING (Lbs.	TARE	SCALE ERROR	SYMBOL	NET WEIGHT
Left Main Wheel		15630	-19		W <sub>L</sub>	15611
Right Main Wheel		15755	-18		WR	15737
Nose Wheel		2180		2	WT	2180
TOTAL WEIGHT		33565	-37		W	33528



#### CENTER OF GRAVITY TO FORWARD DATUM (HORIZ. DIST. - AS WEIGHED)

Nose Wheel Type:  $r+t-\frac{W_{T}\times m}{W} = \frac{1}{W}$  = 437.8 + 13.7- 2180 x 289.5 = 432.7 In. 33528

#### CORRECTED WEIGHT & HORIZONTAL BALANCE

ITEMS ADDED & SUBTRACTED	WEIGHT(Lbs.)	H-DIST(In.) C.G. TO FWD. DATUM	MOMENT (In-Lbs.)	GUARANTEED
Aircraft as Weighed	33528	432.7	14507566	And the latter of the latter o
Plus - See Page 49	87		1.0500	
Minus - See Page 50	- 10167		-4623555	
TOTAL EMPTY WEIGHT	23448	422.0	9894511	
BALANCE (H-Dist.) (Corrected) M.A.C.	- 8 = 422.0 - 285.	345.9 = 26.7%	THE RESERVE AND PERSONS ASSESSED.	to % M.A.C

M.A.C. calc. in accord. with Handb'k. Sec. II, Part II, (Army)or SP-7(Navy)

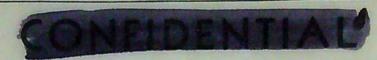
Witnessed by Colomony

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FORM 1612-A2

PAGE REPORT NO. MODEL

ZW-8-519 F-106A DATE 15 Nov. 1959



### WEIGHT EMPTY ITEMS NOT IN AIRPLANE WHEN WEIGHED

		Weight	Arm	Moment
Horizontal situation indicator Non-computing sight control	464180 464169	82 5	121 128	9900 600
TOTAL		87	121	10500



FORM (812-A2

PAGE 50
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



### ITEMS WEIGHED THAT ARE NOT WEIGHT EMPTY

	Weight	Arm	Moment
Usable fuel, 1514 gal. Unusable fuel Oil, trapped and engine Survival kit container	9841 243 60 23	455 461 505 152	4477655 112100 30300 3500
TOTAL	10167	455	4623555



PAGE REPORT NO. 2N-8-519

MODEL F-106A DATE 15 Nov. 1959



#### DERIVATION OF BASIC WEIGHT

	Weight	Arm	Momen
Airplane as weighed	33528	432.7	1450678
Plus basic items not in airplane when weighed	( 19)	304	( 577
Glycol	19	304	577
Less items weighed that are not basic weight	(- 9875 )		(-44948
Usable fuel, 1514 gal. Engine oil	9841 34	455 505	447769
TOTAL BASIC WEIGHT	23672	423.2	100177



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FORM 1012-A2

PAGE REPORT NO. MODEL DATE

PAGE 52 T NO. ZW-8-519 ODEL F-106A DATE 15 Nov. 1959



#### WEIGHT EMPTY - WEIGHT AND BALANCE SUMMARY

		HORIZONTAL			TCAL
	Weight	Arm	Moment	Arm	Moment
WING GROUP	3302	508	1676264	83	275062
TAIL GROUP	693	647	448705	171	118699
BODY GROUP	4401	350	1542028	89	393627
ALIGHTING GEAR GROUP Main Gear Nose Gear	( 1232 ) 1020.8 211.2	395 445 156	( 487064) 454031 33033	47 48 43	( 57933) 48761 9172
SURFACE CONTROL CROUP	445	484	215415	95	42440
NACELLE GROUP	39	562	21902	103	4032
PROPULSION CROUP Engine Air Induction System Exhaust System Cooling System Lubricating System Fuel System Engine Controls Starting System	( 8071 ) 5816 975 320.6 44.4 51 777 28 59	521 562 315 645 520 475 434 302 499	(4204893) 3268592 307206 206642 23091 24211 337261 8460 29430	100 100 101 103 112 103 90 86 76	( 800211) 581600 98624 33039 4960 5265 69824 2414 4485
INSTRUMENTS & NAVIG. EQUIP. GROUP HYDRAULIC AND PNEUMATIC GROUP ELECTRICAL GROUP ELECTRONICS GROUP ARMAMENT GROUP FURNISHINGS AND EQUIPMENT GROUP AIR CONDITIONING & ANTI-ICING GROUP AUXILIARY GEAR GROUP UNACCOUNTABLE WEIGHT	190 431 606 2734 626 290 407 69	226 415 410 176 308 190 276 612	42924 178824 248349 479849 192876 55187 112329 42210	85 86 83 82 81 93 100 115	16173 36977 50018 223144 50891 26924 40789 7952
TOTAL WEIGHT EMPTY	23448	422.0	9894511	91.5	2144872



PAGE REPORT NO.

53 ZW-8-519 MODEL F-106A DATE 15 Nov. 1959



### WEIGHT EMPTY - WEIGHT AND BALANCE DETAILS

		HOR	IZONTAL	VERTICAL.		
	Weight	Arm	Moment	Arm	Moment	
WING GROUP	( 3302.0)	508	(1676264)	83	(275062)	
Basic Structure	( 2878.0)	497	(1431678)	84	(241154)	
Spars  No. 1 - Leading Edge  No. 2 - Sta. 364  No. 3 - Sta. 431  No. 4 - Sta. 472  No. 5 - Sta. 520  No. 6 - Sta. 557  No. 7 - Sta. 594	( 714.9) 99.8 37.4 111.4 130.2 120.0 149.0 67.1	492 435 364 431 472 520 557 594	( 351769) 43432 13614 48013 61459 62400 82993 39858	84 84 84 84 84 84 84 84	( 60059) 8384 3142 9364 10937 10079 12516 5637	
Upper Joints, Splices, & Fasteners Interspar Cover - Sheet Interspar Cover - Machined	( 543.5) 0.9 31.0 511.6	500 594 453 502	( 271529) 535 14048 256946	88 84 89 88	( 47805) 76 2744 44985	
Lower Joints, Splices & Fasteners Interspar Cover - Sheet Interspar Cover - Machined	( 696.6) 105.2 9.5 581.9	504 508 475 504	( 351252) 53410 4510 293332	80 80 80	( 55821) 8461 756 46604	
Interspar Ribs - Forward Tank Ribs - Intermediate Box Ribs - Aft Tank Ribs - Trailing Edge Tank & Box Bulkheads Chordwise Stiffeners Joints, Splices & Fasteners	( 545.2) 48.9 26.1 118.1 91.1 172.9 21.4 66.7	492 395 453 515 575 466 453 509	( 268488) 19328 11823 60880 52355 80493 9688 33921	84 84 84 84 84 85 87 84	( 45949) 4107 2197 9922 7640 14621 1862 5600	
Leading Edge Cover Ribs Joints, Splices, & Fasteners	( 152.1) 81.7 30.4 40.0	441 441 433	( 67017) 36270 13416 17331	83 82 83 84	( 12579) 6722 2511 3346	
Slotted Leading Edge Tips Drag Angles Attachments - Wing to Body	8.2 114.5 30.6 72.4	489 587 459 502	4008 67252 14043 36320	86 83 86 85	704 9493 2623 6121	



PAGE 54
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



	1	-	HOR	IZONTAL	VEF	RTICAL
		Weight	Arm	Moment	Arm	Moment
WING GROUP (Cont'd.)  Secondary Structure - Doors,						
Panels, & Miscellaneous	(	97.0)	487	( 47196)	67	( 6469)
Doors and Frames Main Landing Gear Access	(	55.2) 53.4 1.8	455 452 547	( 25121) 24137 984	55 54 86	( 3060) 2906 154
Fairings and Fillets, Exterior Finish		28.0	531 522	14865 7210	80 85	2233 1176
Control Surfaces - Elevons	(	327.0)	604	( 197390)	84	( 27439)
Spars Ribs Cover and Stiffeners Joints, Splices and Fasteners Strips, - Trailing Edge Fittings - Split Elevon Bonding Jumpers Control Horns Hinges and Pins Supports (Hinge)		16.2 28.8 77.4 4.5 59.1 2.5 0.8 88.1 19.0 30.6	599 606 602 608 620 614 596 600 598 589	9704 17454 46628 2736 36634 1536 477 52827 11357 18037	84 84 84 84 84 84 84 84 83	1360 2419 6497 376 4964 209 67 7410 1593 2544
TAIL GROUP	(	693.0)	647	( 448705)	171	(118699)
Basic Structure	(	615.0)	642	( 394598)	171	(105208)
Spars No. 1 - Leading Edge No. 2 No. 3 No. 4 No. 5	(	184.3) 9.2 7.0 51.3 65.5 51.3	643 593 557 622 649 679	( 118569) 5454 3899 31913 42490 34813	147 176 134 138 149 150	( 27086) 1615 935 7094 9761 7681



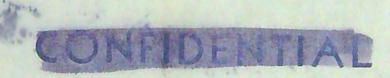
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PAGE MODEL

55 REPORT NO. 2W-8-519 F-106A DATE 15 Nov. 1959



		HORI	ZONTAL	VERTICAL		
	Weight	Arm	Moment	Arm	Moment	
TAIL GROUP (Cont'd.)						
Basic Structure (Cont'd.)						
Interspar Cover, Fin Joints, Splices, & Fasteners-Cover Interspar Ribs Joints, Splices & Fasteners-Rib	254.6 26.9 30.3 2.6	635 629 632 638	161680 16912 19146 1660	172 159 166 167	43902 4266 5040 434	
Leading Edge Cover Ribs Joints, Splices, & Fasteners	( 36.5) 23.2 3.6 9.7	592 588 589 602	( 21603) 13639 2120 5844	179 181 150 186	( 6536 4190 541 1805	
Drag Angles Tips Attachments - Fin to Body	8.2 69.9 1.7	598 703 600	4902 49106 1020	132 238 130	1080 16643 221	
Secondary Structure	( 7.0)	659	( 4613)	165	( 1155	
Doors and Frames - Access Exterior Finish Fairing and Fillets	0.4 3.0 3.6	691 649 664	276 1947 2390	188 184 147	75 552 528	
Control Surface - Rudder	( 71.0)	697	( 49494)	174	( 12336	
Spar Ribs Cover and Stiffeners Joints, Splices and Fasteners Strips - Trailing Edge Bonding Jumpers Control Horns Hinges and Pins Supports (Hinge)	2.9 13.2 16.3 3.4 1.2 0.4 24.7 5.3	696 705 705 695 721 698 689 695 682	2018 9312 11492 2364 865 279 17024 3686 2454	190 188 182 179 190 190 157 187	551 2487 2967 608 228 76 3879 992 548	



FORM 1012-A2

PAGE 56
REPORT NO. ZW-8-519

MODEL T-106A DATE 15 Nov. 1959



	-		HOPT	IZONTAL	VICE	RTICAL
		Weight	Arm	Moment	Arm	Moment
BODY GROUP  Basic Structure	(	4401.0) 3080.0)	350 387	(1542028)	89 92	( 393627) ( 282874)
Bulkheads and Frames Radome Attachment Sta. 41 Forward Pressure Sta. 102 Aft Pressure - Canted	(	927.8) 3.5 19.5 51.6	434 41 102 168	( 402298) 144 1989 8669	92 74 79 86	( 85214) 259 1541 4438
Fwd. Missile Bay and Fuel Sta. 217  Aft Fuel Tank Sta. 253 Center Missile Bay Sta. 316 Wing Spar #2 Attachment Fumetight Sta. 412 Wing Spar #3 Attachment Wing Spar #4 Attachment Wing Spar #5 Attachment Wing Spar #6 Attachment Wing Spar #7 Attachment Fin Spar #3 Attachment Fin Spar #4 Attachment Fin Spar #4 Attachment Fin Spar #5 Attachment		50.1 38.2 67.2 55.4 27.7 110.4 165.7 97.0 129.5 46.4 21.1 16.5 23.2 4.8	217 253 316 364 412 431 472 520 557 593 611 638 672 678	10882 9653 21235 20165 11412 47582 78211 50440 72132 27515 12892 10527 15598 3252	93 108 96 89 85 81 96 89 92 96 100 100 100	4680 4118 6475 4949 2355 8975 15872 8633 11914 4434 2110 1650 2320 491
Minor Frames Joints, Splices, and Fasteners	1	542.6	386 316	· 209444 16256	94 93	51004 4783
Covering Upper - Between Longerons Side - Between Longeron Lower - Between Longerons	(	565.2) 34.8 508.2 22.2	389 245 408 172	( 219682) 8516 207346 3820	99 118 99 60	( 55755) 4110 50312 1333
Skin Stiffeners - Side Between Longerons Missile Bay Stabilizing Angles Fittings and Beams - Engine Mount		20.0 13.6 39.8	503 290 510	10055 3947 20287	69 79 103	1379 1079 4116
Longerons Upper Lower Side Truss - Lower	(	408.8) 142.1 168.9 38.2 59.6	384 349 352 589 425	( 156842) 49626 59425 22482 25309	86 120 64 86 69	( 35327) 17113 10831 3277 4106



FORM 1812-A2

PAGE REPORT NO. MODEL

PAGE 57
T NO. ZW-8-519
ODEL F-106A
DATE 15 NOV. 1959



		HORIS	ZONTAL	VER	TICAL
	Weight	Arm	Moment	Arm	Moment
BODY GROUP (Cont'd.)					
Basic Structure (Cont'd.)					
Longitudinal Partitions Flooring and Supports Support Beam - Floor and NLG	10.6 43.9 20.6	79 139 133	839 6111 2739	78 77 76	826 3402 1566
Access Doors Engine Compartment Structural Fwd. Radar Compartment Refrigeration Compartment Door Side Radar Compartment	( 281.5) 50.3 84.0 70.1 20.9 56.2	320 516 499 72 294 198	( 90194) 25973 41917 5061 6141 11102	90 68 103 75 131 94	( 25316) 3442 8630 5232 2731 5281
Armament Structure Horizontal Diaphragm-Missile Bay	32.1 122.0	319 357	10241 43548	90 84	2879 10228
Secondary Structure	( 1321.0)	265	(349545)	84	(110753)
Radome Structure Attachment	( 156.2) 153.1 3.1	13 13 40	( 2060) 1936 124	72 72 74	( 11256) 11027 229
Canopy and Windshield	( 362.3)	149	( 53875)	113	( 41100)
Canopy - Pressurized	152.8	168	25711	121	18460
Canopy - Operating Mechanism Canopy Latches Air Spring - Remover Seal System Unlock Warning System Jettison Equipment Emergency Latch Release Control Unit Elect Switch Fuse Release	( 87.2) 33.2 2.1 9.6 1.4 18.1 2.7 13.5 6.6	159 165 188 177 149 187 110 108 142	( 13838) 5470 395 1696 209 3377 297 1458 936	98 115 114 109 90 95 98 63 80	( 8575) 3803 239 1048 126 1715 265 851 528
Windshield	122.3	117	14326	115	14065



FORM 1012-A2

PAGE REPORT NO. MODEL

PAGE 58 T NO. ZW-8-519 ODEL F-106A DATE 15 NOV. 1959

		HOR	IZONTAL	VE	RTICAL
	Weight	Arm	Moment	Arm	Moment
BODY GROUP (Cont'd.)  Secondary Structure (Cont'd.)					
Secondary Structure (Cont'd.)					
Speed Brakes Structure Supports	( 68.5)	707	( 48398)	144	( 9887)
	49.9	714	35618	144	7186
	18.6	687	12780	145	2701
Doors and Frames	( 688.0)	330	( 226942)	64	( 43830)
Nose Landing Gear Door Structure Mechanisms and Controls Power Transmission Actuator Emergency System	( 35.4)	132	( 4681)	57	( 2035)
	22.9	133	3043	52	1189
	4.2	130	546	55	233
	2.7	133	360	74	200
	5.0	130	649	74	372
	0.6	138	83	68	41
Main Landing Gear Doors Structure Mechanisms and Controls Power Transmission Actuators Emergency System	( 123.7)	451	( 55742)	56	( 6884)
	67.0	452	30280	45	3029
	33.2	452	15005	67	2226
	9.8	435	4265	70	688
	11.2	455	5092	69	774
	2.5	440	1100	67	167
Armament Bay Doors Structure Mechanisms and Controls Power Transmission Actuators, Supports, & Seals Emergency System	( 475.2)	312	(148452)	65	( 30996)
	287.4	314	90108	59	17063
	65.7	308	20238	69	4554
	14.1	306	4315	78	1094
	104.3	309	32196	77	8041
	3.7	431	1595	66	244
Center Radar Doors - Lower Access Doors Ram Air Turbine Door Ram Air Turbine Enclosure Fairing and Fillets Exterior Finish	15.3	197	3008	55	849
	33.5	388	12992	82	2763
	4.9	422	2067	62	303
	7.7	422	3249	66	505
	18.5	432	8000	133	2457
	19.8	355	7021	87	1718



PAGE 59
REPORT NO. W-8-519

MODEL P-106A DATE 15 Nov. 1959



		HOR	IZONTAL		RTICAL
	Weight	Arm	Moment	Arm	Momen
ALIGHTING GEAR GROUP (GEAR DOWN)	( 1232.0)	395	( 487064)	47	( 5793
Main Landing Gear	( 920.8)	452	( 416452)	44	( 4075
Wheels Tires Tubes Air in Tubes Brakes Drag Braces Side Braces Pivot Shaft Shock Strut Fittings - Main Attach - Wing	96.0 102.0 15.5 2.2 190.0 38.4 63.0 13.2 374.2 26.3	452 452 452 456 456	43392 46104 7006 994 85880 17357 28728 5966 169138 11887	25 25 25 25 25 25 63 72 84 54 89	240 255 38 5 475 241 450 110 2024 233
Nose Landing Gear	( 171.2)	159	( 27144)	38	( 655
Wheels Tires Tubes Air in Tubes Drag Brace Shock Strut Steer Damper - Including Valve Fittings - Main Attach - Body	19.6 16.0 4.3 0.6 17.6 70.6 32.8 9.7	162 162 145	3175 2592 697 97 2552 11151 5379 1501	21 21 21 21 58 43 31 66	41 33 9 1 102 301 102 63
Controls - Main Landing Gear	( 100.0)	376	( 37579)	80	( 801
Retracting System	( 67.6)	427	( 28843)	80	( 538
Mechanical Controls	3.6	452	1627	88	31
Electrical Controls Circuitry Safety System	( 7.4) 1.7 3.2 2.5	315 176 370 339	( 2330) 299 1184 847	83 97 81 75	( 61 16 25 18
Hydraulic Controls Plumbing Actuators Fluid	( 46.1) 5.1 5.0 30.2 5.8	446 437 444 447 447	20539)	80 69 81	( 367 35 40 244 46

PAGE 60
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



		HORI	ZONTAL	VER	TICAL
	Weight	Arm	Moment	Arm	Moment
ALICHTING GEAR GROUP (Cont'd.)					
Controls - Main Landing Gear (Cont'	d.)				
Retracting System (Cont'd.)					
Position Indicating Mech.	7.7	432	3327	71	549
Supports, Guides, Etc. Wing Body	( 2.8 ) 2.1 0.7	364 442 131	( 1020 ) 928 92	82 78 94	( 230) 164 66
Brake Operating System	( 27.3 )	268	( 7319 )	81	( 2224)
Mechanical Controls	3.9	119	463	92	357
Hydraulic Controls Fluid	( 5.6 ) 4.7 0.9	129 115 204	( 725 ) 541 184	89 90 87	( 501) 423 78
Pneumatic Controls Plumbing and Air	( 16.7 ) 2.9 13.8	346 455 323	( 5775 ) 1320 4455	78 67 80	( 1296) 194 1102
Supports, Guides, EtcBody	1.1	324	356	64	70
Emergency Operation	( 5.1)	278	( 1417 )	80	( 406)
Controls - Electrical	0.2	129	26	90	18
Pneumatic Controls Plumbing	( 4.9 ) 1.5 3.4	284 126 354	( 1391 ) 189 1202	79 85 77	( 388) 127 261
Controls - Nose Landing Gear	( 40.0)	147	( 5889 )	65	( 2614)
Steering System	( 16.2 )	155	( 2505 )	60	( 979)
Electrical Controls Circuitry	( 5.6 ) 5.1 0.5	139 139 143	( 781 ) 709 72	73 68 113	( 406) 349 57



FORM 1012-A2

PAGE 61
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



		HORI	ZONTAL	VER	TICAL
	Weight	Arm	Moment	Arm	Moment
ALIGHTING GEAR GROUP (Cont'd.)					
Controls - Nose Landing Gear (Cont	'd.)				
Steering System (Cont'd.)					
Hydraulic Controls Plumbing MechSteering Actuator Fluid	( 10.5) 1.3 2.5 5.9 0.8	163 161 154 167 160	( 1708) 209 385 986 128	54 75 75 38 70	( 565 ) 98 188 223 56
Supports - Body	0.1	163	16	75	8
Retracting System	( 20.5)	142	( 2903)	68	( 1387 )
Mechanical Controls	3.2	147	470	65	208
Electrical Controls	2.4	131	314	62	149
Hydraulic Controls Plumbing Actuator Fluid	( 9.5) 4.6 1.0 3.4 0.5	139 131 150 145 145	( 1320) 604 150 493 73	70 71 80 66 66	( 662 ) 325 80 224 33
Position Indicating Mech.	4.2	147	619	69	290
Supports - Body	1.2	150	180	65	78
Emergency Extension	( 3.3)	146	( 481)	75	( 248 )
Controls - Pneumatic Plumbing - Pneumatic	1.4	140 150	196 285	75 75	105 143

PAGE

62 REPORT NO. ZW-8-519 MODEL F-106A DATE 15 Nov. 1959

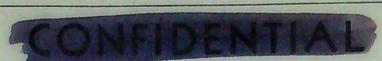


	1		HORI	ZONTAL	VER	TICAL
		Weight	.Arm	Moment	Arm	Moment
SURFACE CONTROLS GROUP (Cont'd.)						
Elevon System Controls (Cont'd.)						
Supports, Guides, Etc. Wing Body Elevon	(	52.4) 3.6 38.7 10.1	540 584 529 569	( 28302) 2101 20459 5742	85 83 86 84	( 4457) 297 3309 851
Fairleads		0.2	260	. 52	85	17
Rudder System Controls	(	70.1)	552	( 38689)	133	( 9313)
Mechanical Controls Tension Regulator Centering Spring	(	16.0) 12.8 3.0 0.2	420 363 647 656	( 6715) 4643 1941 131	119 115 132 150	( 1902) 1476 396 30
Electrical Trim Controls		7.1	490	3477	115	815
Hydraulic Plumbing Actuator Fluid	(	28.8) 9.9 18.2 0.7	652 628 665 641	( 18773) 6221 12103 449	145 141 147 146	( 4176) 1399 2675 102
Artificial Feel - Q Spring Syste	m	5.1	662	3377	142	725
Supports, Guides, Etc. Tail Body	(	11.6) 2.9 8.7	505 629 464	( 5858) 1824 4034	132 146 127	( 1529) 422 1107
Fairleads		1.5	326	489	111	166
Speed Brake System Controls	(	26.3)	666	( 17516)	135	( 3561)
Electrical Circuitry		2.8	415	1163	101	282



PAGE REPORT NO. ZW-8-519

63 MODEL F-106A DATE 15 Nov. 1959



	HORIZONTAL			VERTICAL		
	Weight	Arm	Moment	Arm	Moment	
SURFACE CONTROLS GROUP	( 445.0)	484	(215415)	95	( 42440)	
Cockpit Controls	( 36.5)	147	( 5364)	83	( 3031)	
Control Stick Center Stick Supports Counterbalance	( 26.4) 9.9 2.6 13.9	145 141 133 150	( 3831) 1397 347 2087	77 83 82 73	( 2044) 821 212 1011	
Rudder and Brake Pedals	10.1	152	1533	98	987	
Automatic Stabilization	( 65.5)	395	( 25871)	92	( 6028)	
Yaw and Pitch Damper Amplifier Gyros Circuitry Pitch G Limiter Supports and Mounts	( 63.7) 23.7 7.0 13.4 16.3 3.3	396 399 439 322 434 397	( 25241) 9464 3073 4316 <b>7</b> 077 1311	93 97 86 99 83 96	( 5897) 2294 602 1327 1358 316	
Pilot Assist	1.8	350	630	73	131	
Elevon System Controls	( 246.6)	519	(127975)	83	(20507)	
Mechanical Controls	47.1	427	20099	76	3565	
Electrical Trim Controls	14.5	431	6251	81	1173	
Hydraulic Controls Plumbing Actuators Mechanism Fluid	( 93.3) 16.5 18.8 45.0 6.3 6.7	581 581 580 582 580 579	(54199) 9587 10912 26168 3656 3876	86 84 83 88 88 88	( 8045) 1386 1564 3961 556 578	
Artificial Feel Q Spring System	37.3	487	18179	83	3106	
Gust Locks	1.8	496	893	80	144	



FORM 1012-A2

PAGE REPORT NO. MODEL

64 ZW-8-519 F-106A DATE 15 Nov. 1959



	1	HOR	ZONTAL	VEF	TICAL
	Weight	Arm	Moment	Arm	Moment
SURFACE CONTROLS GROUP (Cont'd.)					
Speed Brake System Controls (Cont'd	1.)				
Hydraulics Controls Plumbing Actuators Fluid	( 22.8) 3.9 3.5 14.0 1.4	697 659 690 708 708	( 15884) 2570 2415 9908 991	139 137 141 140 140	( 3179 ) 536 494 1953 196
Supports, Guides, EtcBody	0.7	670	469	143	100
NACELLE GROUP	( 39.0)	562	( 21902)	103	( 4032 )
Engine Mounts Forward Mount Aft Mount	( 31.5) 12.1 19.4	554 478 601	77455) 5786 11669	107 94 115	( 3369 ) 1137 2232
Engine Removal Brackets	7.5	593	4447	88	663
PROPULSION GROUP	(8071.0)	521	(4204893)	100	(800211 )
Engine and Afterburner (Wet)	5816.0	562	3268592	100	581600
Air Induction System	( 975.0)	315	( 307206)	101	( 98624 )
Engine Air Ducts	(609.7)	325	( 198295)	103	(62942)
Skin - Interior Inlet, Sta. 245-280 Sta. 280-316 Sta. 316-428 Sta. 428-472	( 234.4) 38.7 44.1 133.8 17.8	344 269 294 368 458	( 80686) 10417 12945 49172 8152	103 102 103 103 100	( 24045 ) 3944 4539 13782 1780
Skin - Exterior Inlet, Sta. 245-280 Sta. 280-316	( 49.4) 28.7 20.7	283 273 298	( 14004) 7835 6169	104 103 105	( 5117 ) 2943 2174



PAGE REPORT NO. MODEL

F-106B DATE 15 Nov. 1959



		HORI	ZONTAL	VEF	TICAL
	Weight	Arm	Moment	Arm	Moment
PROPULSION GROUP (Cont'd.)					
Air Induction System (Cont'd.)					
Engine Air Ducts (Cont'd.)					
Ribs, Frames and Stiffeners Inlet, Sta. 245-280 Sta. 280 - 316 Sta. 316 - 428	( 216.6) 101.7 50.6 64.3	309 279 298 365	( 66977) 28408 15085 23484	106 112 99 102	( 22965 ) 11419 4997 6549
Fittings-Inlet, Sta. 245-280	61.9	265	16376	98	6076
Clips, Angles, & Splices Sta. 316 - 428 Sta. 428 - 472	( 11.6) 9.0 2.6	390 375 440	( 4519) 3375 1144	104 106 100	( 1212 ) 952 260
Standard Parts Inlet, Sta. 245-280 Sta. 428 - 472	( 3.7) 1.7 2.0	360 265 440	( 1331) 451 880	99 98 100	( 367 ) 167 200
Seals and Retainers .	8.9	474	4217	97	863
Scroll	23.2	439	10185	99	2297
Ducts - Boundary Layer Inlet, Sta. 245-280 Sta. 280 - 316	( 19.0) 11.8 7.2	279 270 294	( 5303) 3186 2117	102 104 98	( 1933 ) 1227 706
Variable Ramp Bleed	20.8	280	5823	91	1883
Ramp (Variable)  Ramp and Structure  Mechanism Operating System - Normal Operating System - Emergency	( 309.4) 202.3 79.2 12.8 15.1	291 297 269 301 309	( 89886) 60041 21328 3856 4661	98 98 98 99 97	( 30302 ) 19851 7727 1265 1459
Engine Nose Fairing	10.0	466	4655	98	981
Compressor Relief Ducts	6.1	532	3244	96	583



PAGE 66 REPORT NO. ZW-8-519 MODEL

F-106A

DATE 15 Nov. 1959



	1		HORI	ZONTAL	VER	TICAL
		Weight	Arm	Moment	Arm	Moment
PROPULSION GROUP (Cont'd.)						
Exhaust System  Engine Shroud and Insulation Supports, Brackets, Etc.	(	320.6) 310.5 10.1	645 645 636	(206642) 200220 6422	103 103 94	( 33039) 32093 946
Cooling System  Engine Shroud Ducts Insulation for Structure Controls	(	44.4) 30.5 4.9 9.0	520 509 545 544	( 23091) 15527 2671 4893	112 109 118 118	( 4960) 3318 579 1063
Lubricating System	(	51.0)	475	( 24211)	103	( 5265)
Auxiliary Oil Cooler and Supports Ducts and Shutters Shutter Controls Distribution System Drains	(	45.2) 10.9 10.9 13.6 9.3 0.5	472 467 455 477 492 467	( 21345) 5091 4955 6488 4576 235	105 110 111 101 99 94	( 4755) 1197 1215 1374 922 47
Main Scupper - Oil Filler Oil Breather Warning Systems Drains	(	5.8) 1.1 1.9 1.6 1.2	494 509 530 448 485	( 2866) 560 1007 717 582	88 122 76 92 70	( 510) 134 145 147 84
Fuel System	(	777.0)	434	(337261)	90	( 69824)
Auxiliary (External Fuel Tank Prov.)  Tank Release and Controls Transfer System Pressurization System	(	67.0) 39.7 8.7 18.6	438 435 431 446	( 29326) 17275 3749 8302	84 83 84 85	( 5609) 3293 731 1585
Main Integral Tank Seals & Sealants Booster Pump Installation C.G. Control Transfer System C.G. Control Bleed Air System Filling System - Ground Warning Systems Distribution System	(	710.0) 101.4 44.8 201.4 62.0 31.5 18.1 78.2	434 411 514 415 421 372 451 463	(307935) 41683 23029 83512 26079 11729 8155 36180	90 92 84 93 106 87 89 81	( 64215) 9367 3763 18677 6541 2745 1602 6351



FORM 1012-A2

PAGE 67
REPORT NO. ZN-8-519
MODEL F-106A
DATE 15 Nov. 1959

# CONFIDENTIAL

		HORI	ZONTAL	VERT	
	Weight	Arm	Moment	Arm	Moment
PROPULSION GROUP (Cont'd.)  Fuel System (Cont'd.)  Main (Cont'd.)  Transfer System  Vent System  Pressurization System  Scavenge System  Drains	53.4 90.8 13.7 5.3	480 425 446 560	25657 38596 6106 2968 4241	84 91 88 84	4486 8289 1210 447
Engine Controls Ignition Throttle Afterburner	9.4 ( 28.0) 2.3 21.3 4.4	302 375 264 449	( 8460) 862 5623 1975	78 86 90 85 89	737 ( 2414) 206 1815 393
Starting System Starter - Combustion (MA-11) Circuitry Exhaust Ducts Valves and Plumbing Oil	( 59.0) 48.4 3.9 1.1 5.1 0.5	499 509 382 510 488 510	( 29430) 24633 1490 561 2491 255	76 75 90 75 76 75	( 4485) 3623 351 83 390 38



### CONVAIR

SAN DIEGO

PAGE 68

REPORT NO. ZW-8-519

MODEL F-106A

DATE 15 Nov. 1959



		HORI	ZONTAL	VER	TICAL
	Weight	Arm	Moment	Arm	Moment
INSTRUMENT AND NAVIGATIONAL EQUIPMENT GROUP	( 190.0)	226	( 42924)	85	( 16173)
Air Speed - Standby Indicator Installation	( 7.7)	86	( 663)	77	( 591)
	1.0	128	128	106	106
	6.7	80	535	72	485
Air Speed - Machmeter Indicator Amplifier Installation	( 25.2)	95	( 2392)	93	( 2336)
	10.1	128	1293	106	1071
	11.2	104	1169	88	986
	3.9	- 18	- 70	72	279
Altimeter	1.5	128	192	104	156
Gyro Horizon Indicator Installation	( 8.0)	128	( 1027)	107	( 855)
	7.9	128	1011	107	845
	0.1	161	16	96	10
Compass - Flight Sensing Amplifier Installation	( 53.1)	218	( 11571)	70	( 3702)
	43.7	190	8286	68	2962
	9.4	349	3285	79	740
Horizontal Situation Indicator Amplifier Installation	( 12.3)	134	( 1651)	93	( 1150)
	7.9	125	988	101	798
	3.8	150	, 570	79	300
	0.6	155	93	87	52
Altimeter - Vertical Speed Indicator Amplifier Installation	( 18.3)	124	( 2275)	96	( 1757)
	10.0	128	1280	102	1020
	7.7	120	924	89	685
	0.6	119	71	86	52
Standby Compass	( 0.9)	129	( 116)	126	( 113)
Indicator	0.7	128	90	126	88
Installation	0.2	128	26	126	25
Clock	0.5	128	64	111	56
Pressure Ratio System Indicator Amplifier-Transmitter Installation	( 13.0)	249	( 3238)	78	( 1014)
	1.2	128	154	109	131
	5.5	158	869	71	391
	6.3	352	2215	78	492

PAGE REPORT NO. MODEL

ZW-8-519 DATE 15 Nov. 1959



		HORI	ZONTAL	VER	TICAL
	Weight	Arm	Moment	Arm	Moment
INSTRUMENT AND NAVIGATIONAL EQUIPMENT (CONT'd.)					
Free Air Temperature Installation	0.4	250	100	90	36
Turbine Outlet Temperature Indicator Installation	( 6.8) 0.8 6.0	396 128 432	( 2694 ) 102 2592	101 109 100	( 687) 87 600
Fuel Quantity System Indicator Amplifier Installation	( 19.7) 1.5 4.1 14.1	421 128 473 437	( 8289 ) 192 1938 6159	89 103 87 89	( 1761) 154 355 1252
Tachometer Indicator Amplifier Installation	( 2.4) 0.8 0.5 1.1	319 128 500 375	( 765 ) 102 250 413	97 106 81 97	( 233) 85 41 107
Hydraulic Pressure Indicator Transmitter Installation	( 5.8) 0.4 2.4 3.0	369 129 415 365	( 2143 ) 52 996 1095	86 96 84 87	( 501) 38 202 261
Oil Pressure Indicator Transmitter Installation	( 3.9) 0.4 1.4 2.1	362 129 512 307	( 1413 ) 52 717 644	88 96 85 89	( 343) 38 119 186
Fuel Flowmeter Indicator Amplifier Installation	( 8.7) 0.5 7.5 0.7	470 128 503 356	( 4086 ) 64 3773 249	83 103 82 84	( 726) 52 615 59
Oxygen Quantity Installation	0.2	161	32	96	20
Power System	0.8	135	108	71	57
Standard Parts	0.8	131	105	99	79



SAN DIEGO

PAGE REPORT NO. MODEL

PAGE 70
T NO. ZW-8-519
ODEL F-106A
DATE 15 Nov. 1959

# CONFIDENTIAL

	HORIZONTAL VERTICAL				
	Weight	Arm	Moment	Arm	Moment
HYDRAULIC AND PNEUMATIC GROUP	( 431.0)	415	(178824)	86	( 36977)
Hydraulic	( 255.4)	459	(117246)	76	( 19286)
Utility	( 227.6)	466	(106126)	76	( 17358)
Pumps	56.4	517	29154	75	4238
Reservoirs Secondary Primary	( 23.2) 12.1 11.1	420 420 420	( 9744) 5082 4662	75 75 75	( 1741) 908 833
Accumulators  Air Filters Reservoir Pressure System Valves Shrouding and Cooling Low Pressure Warning Plumbing Fluid in System	9.3 0.2 3.4 5.2 4.8 29.0 5.8 41.6 39.0	414 414 499 430 527 520 347 432 448	3851 83 1695 2235 2531 15067 2013 17969 17474	78 78 79 85 76 85 85 76 85 78	721 16 270 440 364 2471 491 3258 2639
Supports Tail Body	( 9.7) 0.1 9.6	444 500 444	( 4310) 50 4260	73 80 73	( 709) 8 701
Emergency	( 27.8)	400	( 11120)	69	( 1928)
Ram Air Turbine Turbine Actuation Mechanism Controls	( 20.4) 13.0 4.3 1.7 1.4	393 418 383 422 151	( 8010) 5434 1647 717 212	68 65 75 62 87	( 1396) 845 323 106 122
Valves Plumbing Fluid in System Supports - Body	1.3 4.4 0.6 1.1	421 420 422 422	547 1846 253 464	84 70 70 66	109 308 42 73



FORM 10/2 AT

PAGE 71 REPORT NO.

ZW-8-519 MODEL F-106A

DATE 15 Nov. 1959



		HODT	ZONTAL	VPD	TICAL
	Weight	Arm	Moment	Arm	Moment
HYDRAULIC AND PNEUMATIC GROUP (Cont'd.					
Pneumatic	( 175.6)	351	(61578)	101	(17691)
<u>Utility</u>	( 175.5)	351	(61556)	101	( 17683)
Air Bottles Air in Bottles (5100 cu. in.) Pressure Regulators Valves Controls Low Pressure Warning Plumbing Supports - Body	93.5 42.8 3.2 5.9 0.6 0.4 22.5 6.7	343 343 328 387 180 285 396 351	32071 14680 1050 2282 108 114 8920 2353	104 109 94 85 110 115 76 99	9724 4665 301 517 66 46 1709 663
ELECTRICAL GROUP	( 606.0)	410	(248349)	83	( 50018)
A.C. System	( 466.0)	442	(206315)	83	( 38848)
Power Supply Generator - Emerg. 3.5 KVA Alternator Remote Generator Drive Emergency Generator Drive	( 305.3) 17.5 49.6 226.2 12.0	488 464 487 492 478	(149197) 8120 24155 111188 5734	81 92 75 81 94	( 24694) 1610 3720 18233 1131
Distribution and Controls Control Boxes Voltage Regulator Switches Circuit Breakers and Fuses Junction, Fuse, and Dist. Boxes Receptacles and Connector Plugs Relays Wiring Conduit	( 78.3) 5.3 21.0 0.2 0.2 1.4 14.7 5.8 29.4 0.3	365 401 465 295 452 223 294 408 322 324	( 28604) 2125 9765 59 90 312 4318 2366 9472 97	87 85 83 95 97 82 75 82 97	( 6817) 451 1743 19 20 115 1100 477 2862 30



FORM 1812-A2-

SAN DIEGO

PAGE 72
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



		HORI	ZONTAL	VEF	TICAL
	Weight	Arm	Moment	Arm	Moment
ELECTRICAL CROUP (Cont'd.)  A. C. System (Cont'd.)					
Lights and Signal Devices Interior Lights Exterior Lights	( 18.3)	305	( 5590)	103	( 1879 )
	8.6	146	1257	94	808
	9.7	447	4333	110	1071
Equipment Supports Emergency Generator Instl. Supports in Body	( 64.1)	358	( 22924)	85	( 5458 )
	46.3	384	17789	87	4015
	17.8	288	5135	81	1443
D. C. System	(140.0)	300	( 42034)	80	( 11170 )
Power Supply Generator 100 Amp. Battery (24V-10 AH) & Rectifier Battery-Rectifier Supports	( 69.0)	319	( 22043)	70	( 4859 )
	37.5	487	18263	75	2813
	31.0	120	3720	65	2015
	0.5	120	60	61	31
Power Distribution Regulator and Control Switches Fuses Receptacles Relays Wiring	( 23.1)	358	( 8279)	93	( 2137 )
	6.0	465	2790	83	498
	0.1	134	13	96	10
	0.7	196	137	67	47
	0.2	175	35	110	22
	2.2	308	678	77	170
	13.9	333	4626	100	1390
Lights and Signal Devices Interior Lights Exterior Lights Landing Lights Stowage - Spare Lamp	( 37.0)	263	( 9638)	92	( 3382 )
	8.9	141	1259	99	881
	13.3	321	4274	99	1319
	7.7	413	3182	76	588
	7.1	130	923	84	594
Equipment Supports - Body	10.9	190	2074	73	792



PAGE 73
REPORT NO. ZW-8-519
MODEL F-106A

DATE 15 Nov. 1959



			HORI	ZONTAL	VER	TICAL
		Weight	Arm	Moment	Arm	Moment
		( 0721 0)	176	(479849)	82	(223144)
ELECTRONICS GROUP		( 2734.0)	176	(419049)	OE	(223144)
GFAE		( 2268.0)	164	(371450)	82	(184844)
Hughes' MA-1 System		( 2247.0)	164	(367406)	82	(183339)
Radar Subsystem		( 455.0)	67	( 30624)	75	(34020)
Dehydrator	463097	3.8	212	806	67	255
Synchronizer	464003	5.6	91	510	73	409
Waveguide Assy.	464016	1.0	46	46	65	65
Antenna	464017	72.5	30	2172	74	5358
Converter	464020	7.1	78	554	73	518
Indicating Pressure	464024	1.8	54	97	89	160
Amplifier	464041	10.3	72	742	78	803
Compressor	464045	8.2	178	1460	62	508
Switch Box	464063	3.1	78	242	90	279
Receiver-Transmitter	464065	170.0	51	8670	73	12410
Gate	464082	6.5	85	553	73	475
Coupler	464084	0.6	41	25	66	40
Oscillator Rate	464093	3.3	91	300	86	284
Amplifier	464095	5.5	85	468	65	358
Test Set	464096	3.3	85	281	90	297
Synchronizer	464103	6.8	91	619	69	469
Dehydrator Silica	463097	3.8	212	806	67	255
Oscillator Gate	463203 464106	3.0	91	273	86	258
Amplifier Valve	464107	10.3	85	876	78	803
	464141	2.5	177	443	70	175
Amplifier	464150	10.0	91	910	82	820
Comparator Duct	464190	7.2	78	562	69	497
Amplifier	464195	6.5	52	187	75	270
Test Set	464196	2.6	97 72	631	69	449
Amplifier	464206	7.8	78	187 608	86	55/
Converter	464223	8.4	97	815	78	608
Amplifier	464241	10.6	78		78	655
Computer	464346	6.6	78	827	82	869
Amplifier	464295	5.0	85	515	86	568
Generator	464389	5.8	91	425	69	345
Amplifier	464395	7.0	97	528 679	65	377
Amplifier	464495	4.4	78		73	511
Amplifier	464506	9.0	85	343	65	286
Converter	464523	7.9	91	765	82	738
Filter	464341	8.4		719	78	616
Filter	464425		97	815	86	722
111001	704727	12.6	85	1071	86	1084



FORM IBIZIAS

PAGE 74 REPORT NO. ZW-8-519

MODEL F-106A DATE 15 Nov. 1959



			HORI	ZONTAL	VER	TICAL
		Weight	Arm	Moment	Arm	Moment
ELECTRONICS CROUP (Cont'd	.)					
CEAR (Contid )						
GFAE (Cont'd.)  Hughes' MA-1 System (Cont	( 51					
Radar Subsystem (Cont						
Waveguide	464316	1.2	37	44	83	100
Fastener MA-1 Antenna		1.4	36	50	73	102
Digital Computer Subsys		(230.0)	83	(19111)	76	(17591)
Converter	464023	9.5	66	627	81	770
Comparator	464050	9.3	84	781	88	818
Elect. Switch	464051	7.2	66	475	74	533
Memory	464057	32.6	95	3097	73	2380
Relay Assy. Converter	464064	14.6	84 74	1226	64 81	934
Computer	464146	13.9 25.8	84	1029		1126
Memory	464157	11.7	84	983	73 81	948
Control	464255	23.4	74	1732	73	1708
Test Set	464296	12.6	74	932	64	806
Interconnecting Box	464318	5.7	62	353	74	422
Converter	464323	9.6	74	710	88	845
Computer	464446	20.5	95	1948	89	1825
Amplifier Assy.	464457	17.8		1691	81	1442
Generator	464489	6.5	95 66	429	67	436
Getes	464657	9.3	100	931	77	715
Armament Auxiliaries Su	b-					
system - Excluding Miss	ile					
Launchers		(88.0)	187	(16502)	96	( 8443)
Control	464008	11.5	185	2128	101	1162
Selector, Channel	464043	7.6	204	1550	96	730
Power Supply	464087	8.2	191	1566	92	754
Relay Assembly	464264	7.5	197	1478	96	720
Amplifier	464266	9.3	204	1897	101	939
Relay Assembly,	1.01-01					
Parameter	464364	10.5	204	2142	105	1103
Amplifier	464366	5.3	209	1108	103	546
Relay Assembly, Bay Selector	464464	60	2.00			
Test Set	464496	6.3	197	1241	101	636
Amplifier	464866	4.8	191	917	101	485
Test Panel	464596	13.5	66	891	80	1080
TODO Tamer	404790	3.5	453	1584	82	288



PAGE 75
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



			HORI	ZONTAL	VERTICAL	
		Weight	Arm	Moment	Arm	Momen
ELECTRONICS GROUP (Cont'd.)				1		
CEAR (Contis)		61				
GFAE (Cont'd.)	14					
Hughes' MA-1 System (Cont Flight Sensing Subsyste		( 190.0)	163	( 31101)	69	( 13036
Accelerometer	464061	2.2	429	944	78	17
Amplifier, Interro-	404001	2.6	14			-1.
gator	464009	14.5	199	2886	68	98
Amplifier, Roll & Pitc		8.4	206	1730	70	58
Demodulator Channels	464209	3.8	187	711	70	26
Stable Element	464289	55.8	175	9765	63	351
Amplifier, Azimuth	464309	12.6	193	2432	68	85
Test Set, Stable						
Element	464396	8.0	206	1648	66	52
Junction Box and						
Latitude Counter	464409	8.1	187	1515	66	53
Compensator, AD	464721	9.1	140	1274	78	71
Computer, Air Data	464646	26.0	121	3146	75	195
Converter, Air Data	464420	36.5	118	4307	70	255
Converter, Flight						
Sense	464320	5.0	149	743	75	37
Communication, Navigato	r and					
Landing Subsystem		( 204.0)	192	( 39092)	96	( 1959
Transmitter, Radio	464059	23.0	203	4669	94	216
Receiver, Radio	464067	26.2	191	5004	94	246
Antenna, - ADF	464117	10.8	86	929	57	61
Receiver-Transmitter					,	
Tacan	464129	25.3	203	5136	103	260
Receiver, Radio - UHF	464167	26.0	210	5460	97	252
Tuner, RF-UHF	464225	9.5	197	1872	97	92
Coder-Decoder, Tacan	464229	16.0	197	3152	103	164
Revr. AILAS Glide				3-7-		
Slope	464267	9.5	185	1758	93	88
Transmitter, Range						
Tacan	464329	12.6	191	2407	103	129
Receiver, Radio				2.01	203	
AILAS Localizer	464367	8.5	185	1573	97	82
Power Supply -				-713		No tion
Communications	464392	12.2	210	2562	103	125
Transmitter, Bearing-				-,02	200	and the first of
Tacan	464429	14.8	185	2738	103	152
				-130	703	170



PAGE 76 REPORT NO. ZW-8-519

MODEL F-106A DATE 15 Nov. 1959



ELECTRONICS GROUP (Cont'd.)  GFAE (Cont'd.)  Hughes' MA-1 System (Cont'd.)  Communication, Navigator and Landing Subsystem (Cont'd.)  Amplifier, ADF 464606  Cockpit Controls & Displays  Filter, Light 464025  Indicator(Radar Scope)464080  Visor, Indicator 464125	9.6 ( 181.0)	191	Moment	Arm 90	Moment
CFAE (Cont'd.)  Hughes' MA-1 System (Cont'd.)  Communication, Navigator and Landing Subsystem (Cont'd.)  Amplifier, ADF 464606  Cockpit Controls & Displays  Filter, Light 464025  Indicator(Radar Scope)464080	( 181.0)		1832	90	
CFAE (Cont'd.)  Hughes' MA-1 System (Cont'd.)  Communication, Navigator and Landing Subsystem (Cont'd.)  Amplifier, ADF 464606  Cockpit Controls & Displays  Filter, Light 464025  Indicator(Radar Scope)464080	( 181.0)		1832	90	
Hughes' MA-1 System (Cont'd.)  Communication, Navigator and Landing Subsystem (Cont'd.)  Amplifier, ADF 464606  Cockpit Controls & Displays  Filter, Light 464025  Indicator(Radar Scope)464080	( 181.0)		1832	90	
Hughes' MA-1 System (Cont'd.)  Communication, Navigator and Landing Subsystem (Cont'd.)  Amplifier, ADF 464606  Cockpit Controls & Displays Filter, Light 464025 Indicator(Radar Scope)464080	( 181.0)		1832	90	
Communication, Navigator and Landing Subsystem (Cont'd.) Amplifier, ADF 464606  Cockpit Controls & Displays Filter, Light 464025 Indicator(Radar Scope)464080	( 181.0)		1832	90	
Cockpit Controls & Displays Filter, Light 464025 Indicator(Radar Scope)464080	( 181.0)		1832	90	
Cockpit Controls & Displays Filter, Light 464025 Indicator(Radar Scope)464080	( 181.0)		1832	90	01
Filter, Light 464025 Indicator(Radar Scope)464080				20	869
Filter, Light 464025 Indicator(Radar Scope)464080		7/1/2	( 25831)	88	( 15918
Indicator(Radar Scope)464080	7 7	143 131	170	113	147
	1.3	117	2106	111	1998
	0.4		54	116	46
	3.5	135	448	100	350
		128	243	100	190
	1.9	120	243	100	130
Control, Selector- Channel 464355	2.5	148	270	02	000
Control Selector -	2.7	140	370	93	233
Tacan 464405	2.8	137	384	OF	266
Control Selector -	2.0	121	204	95	200
Communications 464505	5.8	148	858	02	53/
Annunciator 464034	0.1	128		93	539
Switch Selector 464463	0.5	128	13	106	11
Converter Signal 464520				100	50
	20.3	205	4162	81	1641
	17.8	207	3690	81	1458
	1.3	154	200	92	120
Control, Coder Group 464655	0.9	165	149	90	81
Control, Selector-GCI 464605	3.0	144	432	94	282
Control, RevrAILAS 464755	1.3	139	181	95	124
Control, Power 464905	3.3	159	525	91	300
Control, Auto	0.0	-1-			
Navigation 464955	0.8	140	112	94	75
Sight Non Comp 464169	5.1	128	653	125	638
Recorder 464083	4.3	138	593	98	42
Situation 464180	82.0	120	9840	80	6560
Azimuth Control 464855	1.6	134	214	95	150
Control Receiver 464019	2.5	148	370	93	233
Aircraft Control Subsystem	( 76.0)	210	( 15000)	ca la	1 000
Amplifier - Computer,	( 10.0)	210	(15889)	74	( 556
Navigation 464021	6.2	206	3000	07.65	hov
Amplifier-Computer, Roll 46412		202	1277	79 68	490
Amplifier-Computer.	77.7	202	2404	00	809
AILAS 464321	12.3	202	2485	70	OFF
A 100 0 0 000		202	2407	79	977

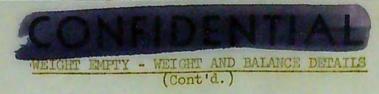
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PAGE 77
REPORT NO. ZM-8-519
MODEL F-106A
DATE 15 Nov. 1959



		T		HORI	ZONIAL	VER	CICAL
		W	eight	Arm	Moment	Arm	Moment
ELECTRONICS GROUP (Cont'd	1.)						
GFAE (Cont'd							
Aircraft Control Subsyst		'd.	)				
R & P Rate Gyro	464127		3.8	190	722	83	315
Accelerometer	464161		3.4	382	1299	68	233
Amplifier-Computer, Nav	rigation					**	200
and Landing	464221		13.6	198	2693	68	929
Amplifier-Computer	1011		1	0	-1		-0-
Steering	464421		12.4	198	2455	79	980
Amplifier-Automatic	1. (1. (0.		20 1	001	ocal.	(0	01
Attack	464621		12.4	206	2554	68	843
IFF Subsystem IR		(	51.0)	49	( 2475)	73	( 3673
Duplexer	464032	1	3.9	39	152	72	281
Isolator	464079		1.6	41	66	86	138
Amplifier Isolator	464108		5.6	66	370	69	386
Waveguide	464116		1.9	42	80	81	151
Duplexer	464132		4.6	39	179	78	359
Waveguide	464152		3.0	39	117	72	216
Transmitter	464159		9.1	38	346	73	664
Detector	464279		0.4	57	23	82	33
Coupler	464284		0.3	42	13	84	25
Synchronizer	464303		5.3	. 66	350	75	398
Amplifier Converter	464566		7.1	39	277	74	
Amplifier Synchronizer	:464567		8.2	61	502	60	525
IFF Subsystem XP		(	41.0)	605	( 24816)	151	( 6179
Isolator	464079	,	1.6	631	1010	149	238
Amplifier Oscillator	464108		5.3	444	2355	141	747
Transmitter T-425	464159		9.1	639	5815	152	1383
Duplexer	464232		3.9	622	2426	151	589
Switch Waveguide	464252		3.0	625	1875	183	549
Attenuator	464279		0.4	610	244	145	58
Tuned Cavity	464332		2.6	620	1612	144	371
Amplifier Synchronizer	464333		7.5	619	4645	150	1122
	464384		0.5	621	311	155	78
Amplifier Converter	464666		7.1	637	4523	146	1037
IFF Subsystem Ground to	Air	(	48.0)	194	( 9299)	71	( 340
	464028	,	12.6	186	2344	80	100
	464263		6.1	178	1086	77	470
	464265		29.3	201	5869	66	1927
		Broke.	PROFESSION NAMED IN	A PROPERTY AND ADDRESS.		00	476

PAGE 78
REPORT NO. ZN-8-519
MODEL F-106A
DATE 15 Nov. 1959



			HORI	ZONTAL	VER	TICAL
		Weight	Arm	Moment	Arm	Moment
TELEGRAPHICA ADOLES (A. 1111)						
ELECTRONICS GROUP (Cont'd.)						
GFAE (Cont'd.)						
Hughes' MA-1 System (Cont'd.	)					
Power Supply Subsystem	(	297.0)	330	( 97829)	83	(24564)
Interconnecting Box #1 4	64018	6.8	177	1203	92	624
Reactor-40 Milli Henry						
	64035	25.8	484	12487	80	2064
Regulator, Voltage-	(1060		-0-	-0-		100
The state of the s	64062	5.3	185	981	92	488
	64089	69.4	505	35047	71	4927
Filter, D.C. +300 V.	64092	5.3	185	981	105	CC7
Interconnecting Box #2 4		6.3		1128	105	557 649
Reactor-100 Milli Henry 4	64135	10.8	179 484	5227	74	799
	64162	25.2	395	9954	97	2444
Filter, D.C250 V.D.C.4		20.6	72	1483	71	1463
	64326	10.3	72	742	65	670
Regulator, Voltage						
	64292	4.3	97	417	82	353
	64189	31.0	505	15655	78	2418
Regulator, Voltage	(1100	0				
	64491	10.8	179	1933	103	1112
Filter, D.C. +300 V.	64591	60	000	110	-	11-
	-04791	6.8	97	660	65	442
Regulator, Volt - D.C. Mag. Amp. #1	64692	12.8	209	2675	96	1000
Filter, D.C 140V.	01072	12.0	209	2015	90	1229
	64791	5.3	72	382	82	435
Regulator, Volt - D.C.				502	02	737
Mag. Amp. #2 4	64792	10.0	179	1790	96	960
Filter, D.C. +150 V.						
D.C. 4	64891	3.9	191	745	105	410
Regulator, Volt A.C.	(1.0	- 0				
	64892	21.8	179	3902	97	2115
Filter, D.C. Power -	Choos	h =	-			
+150 V. D.C. 4	64991	4.5	97	437	90	405
Miscellaneous		(27.0)	107	/	-	
Compression of the compression o	64149	25.0	191	( 5148)	63	( 1710)
	64796	2.0	196	4900	63 68	1575
			The state of	248	00	135



PAGE 79
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



		HORI	ZONTAL	VER	PICAL
	Weight	Arm	Moment	Arm	Moment
ELECTRONICS GROUP (Cont'd.)					
GFAE (Cont'd.)					
Hughes' MA-1 System (Cont'd.) Installation Provisions	( 359.0)	138	(49689)	83	(29647)
Rack - L.H. Fwd.	( 3)9.01	130	( 4,00)		( -)0.17
Compartment 464073	77.0	81	6237	75	5775
Rack - Ant. Transmitter	1111				7112
Group 464173	24.5	47	1152	74	1813
Rack - R.H. Forward					
Compartment 464273	84.2	80	6744	78	6575
Rack - Stable Platform					
Amplifier 464374	18.1	196	3548	66	1195
Rack - Stable Platform					
Generator 464474	5.5	175	963	60	330
Rack 464502	1.0	1.86	186	76	76
Rack - Radar Search 464002	1.1	112	123	110	121
Rack - L.H. Upper 464074	45.0	194	8730	98	4410
Rack - R.H. Upper 464174 Rack - 464573	50.7	194	9836	98	4969
Rack - 464573	1.0	140	140 283	63 66	63
Rack - Dehydrator 464674	0.9	213			158
Rack - 464773	4.5	121	192 545	73	66
Rack - AFCS Lower 464873	18.8	202	3798	75 73	338 1372
Rack - Dehydrator 464774	0.9	213	192	72	65
Rack - Situation Ind. 464102	3.9	120	468	81	316
Rack - Aft APX 464274	5.4	637	3440	147	794
Rack - IFF 464402	1.3	201	261	62	81
Rack - Signal Data 464602	10.3	200	2060	81	834
Rack - Rate 464611	1.5	135	203	165	158
Rack - Fwd. APX 464973	1.0	588	588	138	138
GFAE - Miscellaneous	( 21.0)	193	( 4044)	72	( 1505)
Computer Flight Directional 60 -6309	10.9	200	2080	75	700
Gyro Transmitter 60-6311	3.7	212	784	75	780
Accelerometer 60-6300	1.4	429	601	72	266
Switch - Gyro 60-5938	1.4	199	279	77 59	83
Indicator-Frequency Channel 81-3382	1.0	128	128	104	104
Probe-Free Air Temp	0.4	151	60	60	24
Transducer 60-1603	2.2	51	112	64	140



PAGE REPORT NO. MODEL

MODEL F-106A DATE 15 Nov. 1959

80



	HORIZONTAL VERTICAL				
	Weight	Arm	Moment	Arm	Moment
ELECTRONIC GROUP (Cont'd.)  CFE Pressurization Tubing Antennas Switches, Relays, Fuses, Etc.	( 41.0) 5.3 26.8 8.9	218 130 232 225	( 8920) 689 6228 2003	93 80 101 77	( 3796) 424 2697 675
Installation Antenna Installation Bracketry Mounting, Sight Equipment Installation and Cabling Electronic Instl. Miscellaneous Supports Support-Radar Scope Support-Situation Display Radar Installation Transducer Attachment Support - Harness	( 425.0) 18.7 2.5 4.7 351.5 7.8 22.6 3.1 3.0 5.1 1.0 5.0	234 193 330 130 240 301 239 115 110 142 56 201	( 99479) 3604 825 611 84230 2347 5391 355 330 726 56 1004	81 96 91 123 79 96 77 108 93 70 70	( 34504) 1786 227 577 27939 747 1733 336 279 358 70 452
ARMANENT CROUP	( 626.0)	308	(192876)	81	( 50891)
Missile Installation	(505.8)	306	(154620)	80	( 40258)
Launchers Displacing Gear, Fwd. Displacing Gear, Aft. Trunnions Uplatch and Stops Snubbers Trunnion Supports Hold Back Cams Actuators Valves Plumbing Actuator Supports Baffle Seal Controls - Electrical Indicators - Electrical Controls	86.3 103.8 74.0 17.6 14.1 6.8 57.8 1.6 70.6 3.3 21.8 5.4 22.0 1.8 10.7 0.5	316 256 344 232 360 326 269 298 337 391 312 337 360 455 302 318	27283 26581 25451 4078 5073 2219 15572 477 23798 1290 6794 1822 7918 819 3235 159	75 77 76 78 79 86 79 82 90 81 85 98 72 89 81 76	6485 8011 5653 1364 1114 585 4587 131 6329 266 1858 528 1594 161 863 38



PAGE 81
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959

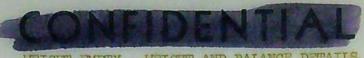


WEIGHT EMPTY - WEIGHT AND BALANCE DETAILS (Cont'd.)

		HOR	IZONTAL	VER	TICAL
	Weight	Arm	Moment	Arm	Moment
ARMAMENT CROUP (Cont'd.)					
Missile Installation (Cont'd.)					
Intervalometer	6.4	259	1658	90 88	576
Relays	1.3	302	393	88	11
MB-1 System	( 73.1)	341	(24909)	83	( 6038
Ejection Mechanism and Beam	52.9	348	18424	84	4410
Nose Deflector	8.5	295	2504	75	630
Chocks Supports - Chocks	1.9	333 356	633 285	79 80	15
Controls - Electrical	6.6	344	2271	86	56
Relays	1.1	297	327	89	98
Lanyard	1.3	358	465	83	108
Common Installation	( 47.1)	283	( 13347)	98	( 459
Supports	2.3	298	685	89	20
Controls - Electrical	42.0	282	11837	99	4171
Relays	0.3	267	80	87	20
Boresight Bonding Connection	1.6	314 270	502 243	66 93	106
		-19	213	75	
URNISHINGS AND EQUIPMENT GROUP	(290.0)	190	( 55187)	93	( 26921
Accommodations for Personnel	( 188.0)	162	( 30507)	94	( 17758
Pilot's Seat Installation	(142.7)	163	( 23300)	100	( 14229
Seat	63.3	158	9997	99	626
Safety Belt and Initiator Harness and Inertia Reel	4.2	155	651	95	399
Seat Adjustment Mechanism	3.8	170	646	90	34:
Catapult, Initiator, and Exactor	35.7	168	6015	91	71: 367:
Tracks and Supports	27.8	170	4726	102	283
Oxygen Installation	( 37.1)	152	( 5653)	74	( 274)
Converter and Liquid Oxygen	24.3	157	3816	72	1750
Control Panel (Regulator) Supports - Converter	2.0	133	266	93	180
public op - douver et.	2.5	158	394	73	1.80

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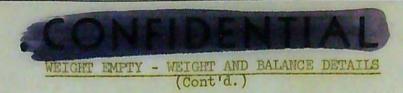
PAGE 82
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



		HORI	ZONTAL	VER	TICAL
	Weight	Arm	Moment	Arm	Moment
FURNISHINGS AND EQUIPMENT GROUP (Cont'd.	)				
Accommodations for Personnel (Cont'd.)					
Oxygen Installation (Cont'd.) Plumbing Filler Valve Installation Mask Defog	5.4 0.9 2.0	139 124 158	749 112 316	74 62 87	400 56 173
Miscellaneous Accommodations Ventilated Suit Provisions Anti-G Suit Provisions	( 8.2) 1.5 6.7	190 162 196	( 1 <b>5</b> 54) 243 1311	95 93 95	( 776) 139 637
Miscellaneous Equipment	( 68.7)	171	( 11747)	92	( 6315)
Data Case Installation Anti-Glare Shield Windshield Rain Removal Instl. Instrument Boards Consoles Stowage - Pins and Pads Plate - Rudder Streamline	1.5 3.9 36.8 14.3 11.5 0.6 0.1	162 123 195 125 153 453 685	243 480 7160 1768 1755 272 69	85 113 87 102 90 60 158	127 439 3201 1456 1040 36 16
Furnishings	( 11.3)	182	( 2056)	90	( 1015)
Floor Covering Insulation Cockpit Trim Insignia and Service Markings	6.4 0.5 1.8 2.6	139 150 152 313	892 75 274 815	82 94 102 100	523 47 184 261
Emergency Equipment	( 22.0)	494	( 10877)	83	( 1842)
Fire Detection - Engine Compartment Quick Disconnects - On Seat	21.0	510 160	10717	83 83	1759 83
AIR CONDITIONING AND ANTI-ICING GROUP	( 407.0)	276	(112329)	100	( 40789)
Air Conditioning Emergency Pressure System Refrigeration Unit	( 333.0) 1.1 91.8	288 216 295	( 96001) 238 27082	101 79 100	( 33792) 87 9180



PAGE 83
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



	T	-	HORI	ZONTAL	VERT	ICA	L
	V	Veight	Arm	Moment	Arm	1	Moment
AIR CONDITIONING AND ANTI-ICING GROUP (Cont'd.)							
Air Conditioning (Cont'd.)  Pressure Difference Switch Insulation		0.9	100 410	90 6851	100		90 2024
Ducting Heat Exchanger Cooling Bleed Air Missile Bay Heating Cabin Air Forward Electronics Aft Electronics Fin Electronics	(	124.7) 26.6 40.4 4.8 23.9 18.5 4.4 6.1	306 303 416 305 208 185 198 427	( 38182) 8052 16802 1463 4962 3430 870 2603	103 111 116 81 93 84 74 128	(	12894) 2952 4675 387 2222 1552 327 779
Ground Cooling Connection		8.7	310	2698	98		848
Pressure Test Fittings		0.4	108	1,14	81		32
Controls Electrical Pneumatic	(	68.4) 29.8 38.6	213 184 236	( 14573) 5470 9103	98 97 99	(	6719) 2898 3821
Supports		17.7	296	5278	97		1683
Pressurization Sealing		2.6	371	965	90		235
Anti-Icing	(	74.0)	221	(16328)	95	(	6997)
Air Induction Ducting - Duct Lip Insulation Electrical Controls Pneumatic Controls Circuitry Supports - Body	(	29.6) 14.7 1.7 5.5 4.8 2.2 0.7	281 276 279 320 300 195 241	( 8331) 4059 474 1759 1440 430 169	92 96 91 86 85 100 81	(	2721) 1408 155 473 408 220 57



PAGE 84

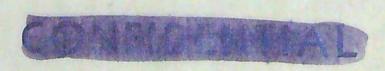
REPORT NO. ZW-8-519

MODEL F-106A

DATE 15 Nov. 1959



			HORI	ZONTAL		VEF	TICA	
	W	eight	Arm	Momen	nt	Arm	2/	loment
AIR CONDITIONING AND ANTI-ICING GROUP (Cont'd.)  Anti-Icing (Cont'd.)								
Radome Tank Installation Plumbing Valves Electrical Control Circuitry	(	11.1) 3.7 5.1 2.0 0.1 0.2	228 304 188 177 452 244	1	24	93 112 81 85 97 103	(	1030) 416 414 169 10 21
Windshield Electrical Controls Circuitry Supports - Body	(	28.6) 23.0 5.0 0.6	134 127 172 113			96 94 106 95	(	2752) 2165 530 57
Pitot  Electrical Controls  Circuitry	(	4.7) 1.0 3.7	345 145 399	( 162 147 147	+5	105 79 112	(	494) 79 415
AUXILIARY GEAR GROUP	(	69.0)	612	( 422	10)	115	(	7952)
Arresting  Attachment Fittings  Deceleration Parachute  Deceleration Container and Fitting  Deceleration Controls & Mech.  Drag Chute Emergency System	(	58.0) 12.2 22.7 6.5 12.4 4.2	650 535 705 689 634 740	( 3798 653 1600 448 786 310	30 01 81 54	120 65 135 144 134 142	(	7030) 775 3063 936 1660 596
Handling Fitting-Tiedown Fitting-Jacking Fitting-Leveling Fitting-Hoisting	(	11.0) 0.6 5.5 1.9 3.0	384 557 382 238 445	210	34 02 53	84 83 78 76 100	(	922) 50 428 144 300



PAGE 85
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



NORMAL USEFUL LOAD - WEIGHT AND BALANCE DETAILS

JP-4 FUEL @ 6.5 LBS. PER GALLON

			HORI	ZONTAL	VERT	CICAL
	-	Weight	Arm	Moment	Arm	Moment
Pilot, Survival Kit and Parachute Pilot Survival Kit container Survival kit contents Parachute		( 286 ) 210 23 28 25	149 147 152 152 163	( 42697) 30870 3496 4256 4075	97 99 88 88 103	( 27853) 20790 2024 2464 2575
Fuel - Internal Unusable 37.4 G	al.	243	461	112100	82	19997
Fuel - Internal Usable (1304 Gal Wing tank #1 299 Gal Wing tank #2 311 Gal Wing tank #3 424 Gal Fuselage tank "F" 240 Gal Lines 30 Gal		( 8476 ) 1944 2021 2756 1560 195	435 397 515 516 235 450	(3689029) 771768 1040815 1422096 366600 87750	89 84 84 87 103 90	(751062) 163296 169764 239772 160680 17550
Oil (8.0 Cal Trapped 3.5 Gal Engine 4.5 Cal		( 60 ) 26 34	505 505 505	( 30300) 13130 17170	106 106 106	( 6360) 2756 3604
Armament Falcon missiles GAR-3/-4 (2 ea.) Rocket type MB-1 MB-1 ejection cartridges (5)		( 1375 ) 546 828 1	338 324 348 357	( 465191) 176690 288144 357	71 72 71 80	( 97918) 39050 58788 80
TOTAL NORMAL USEFUL LOAD		10440	415.6	4339317	86.5	903190

NOTE: No fuel in "T" tank.



PAGE REPORT NO.

2W-8-519 MODEL F-106A

DATE 15 Nov. 1959



#### NORMAL GROSS WEIGHT AND BALANCE CALCULATIONS JP-4 FUEL

1	7	MODMAT	TAKE-OFF
-1	1000	TACKERITATI	THILLIAM

	USABLE	C.G.	HOR		ZONTAL	VER	TICAL
	(GAL.)	(% MAC)	WEIGHT	Arm	Moment	Arm	Moment
Weight Empty - Gear Down Normal Useful Load	1304	26.7	The state of the s	422.0 415.6			
NORMAL TAKE-OFF - CEAR DOWN Moment Change - Gear Up	1304	26.0	33888	420.0	14233828	89.9	3048062 40046
NORMAL TAKE-OFF - GEAR UP	1304	26.0	33888	419.9	14229980	91.1	3088108

#### (2) MOST FORWARD C.G.

	USABLE FUEL	C.G.		HORI	ZONTAL	VERTICAL	
	(GAL.)	(% MAC)	WEIGHT	Arm	Moment	Arm	Moment
Normal Take-Off - Gear Up	1304	26.0	33888	419.9	14229980	91.1	3088108
Less Usable Fuel	-1304		- 8476	435	-3689029	89	-751062
MOST FORWARD C.G.		24.2	25412	414.8	10540951	92.0	2337046

#### (3) MOST AFT C.G. - SUBSONIC

USABLE	C.G.					
	7.7		HORIZONTAL		VER	TICAL
The same of the sa			Arm	Moment		Moment
	26.0	33888	420.0	14233828	89.9	3048062
- 299		- 1944	397	- 771768	84	-163296
- 311		- 2021	515			-169764
- 63		- 410	516			- 35670
- 236		- 1534	235		The second second	-158002
~~~		- 1375	338			- 97918
395	28.8	26604	427.9	11384004	91.1	2423412
	FUEL (GAL.) 1304 - 299 - 311 - 63	FUBL (GAL.) (% MAC) 1304 26.0 - 299 - 311 - 63 - 236	FUEL (GAL.) (% MAC) WEIGHT 1304 26.0 33888 - 299 - 1944 - 2021 - 63 - 410 - 236 - 1534 1375	FUEL (GAL.) (% MAC) WEIGHT Arm  1304 26.0 33888 420.0  - 299 - 1944 397  - 311 - 2021 515  - 63 - 410 516  - 236 - 1534 235  - 1375 338	FUEL (GAL.) (% MAC) WEIGHT Arm Moment  1304 26.0 33888 420.0 14233828  - 299 - 1944 397 - 771768  - 311 - 2021 515 -1040815  - 63 - 410 516 - 211560  - 236 - 1534 235 - 360490  1375 338 - 465191	FUEL (GAL.) (% MAC) WEIGHT Arm Moment Arm  1304 26.0 33888 420.0 14233828 89.9  - 299 - 1944 397 - 771768 84  - 311 - 2021 515 -1040815 84  - 63 - 410 516 - 211560 87  - 236 - 1534 235 - 360490 103  - 1375 338 - 465191 71

### (4) MOST AFT C.G. - SUPERSONIC

	USABLE	C.G.	No. of the Control of	-	the limited was a second or the second	
	FUEL			HOR	IZONTAL	VERTICAL
Nerwal Sale 022	(GAL.)	(% MAC)	WEIGHT	Arm	Moment	Arm Moment
Normal Take-Off - Gear Up Less Fuel - Tank #1	1304	26.0	33888	419.9	14229980	91.1 3088108
Less Fuel - Tank "F"	- 299		- 1944	397	- 771768	84 -163296
Transfer from "F" Tank	- 60		- 390	235	- 91650	
to "T" Tank	- 176		- 1144		- 268840	
Less Armament	+ 176		+ 1144	573	+ 655512	90 +102960
MOST AFT C.G SUPERSONIC	Olis	22 7	- 13/5	338	- 465191	71 - 97918
The same of the sa	74)	2304	30179	440.3	13288043	91.8 2771852



87

ZW-8-519

Page:

Report No:

SAN DIEGO

PAGE 88
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



### OVERLOAD (FULL INTERNAL FUEL) AND EXTERNAL USEFUL LOADS - WEIGHT AND BALANCE DETAILS

### JP-4 FUEL @ 6.5 LBS. PER GALLON

			HORIZ	ZONTAL	VERTI	The second second
		Weight	Arm	Moment	Arm	Moment
Pilot, Survival Kit and Parachu Pilot Survival Kit container Survival kit contents Parachute	ıte	( 286 ) 210 23 28 25	149 147 152 152 163	( 42697 ) 30870 3496 4256 4075	99 88 88	( 27853) 20790 2024 2464 2575
Fuel - Internal Unusable	37.4 Gal.	243	461	112100	82	19997
Fuel - Internal Usable Wing tank #1 Wing tank #2 Wing tank #3 Wing tank "T" Fuselage tank "F" Lines	(1514 Gal.) 299 Gal. 311 Gal. 424 Gal. 210 Gal. 240 Gal. 30 Gal.	1944 2021 2756	397 515 516 573 235	(4471174 ) 771768 1040815 1422096 782145 366600 87750	84 84 87 90	
Oil Trapped Engine	(8.0 Gal.) 3.5 Gal. 4.5 Gal.	26	505 505 505	( 30300 ) 13130 17170	106 106 106	( 6360) 2756 3604
Armament Falcon missiles GAR-3/-4 (2 Rocket, type MB-1 MB-1 ejection cartridges		( 1375 ) 546 828 1	324	( 465191 ) 176690 288144 357	71 72 71 80	( 97918) 39050 58788 80
TOTAL OVERLOAD (FULL INTERNAL I	FUEL.)	11805	433.8	5121462	86.9	1026040
External Fuel, Tank - Pylons		( 3320 )	1,2,1,	(1472567)	60	( 200022)
Fuel, external Unusable Usable External Integral tank - pylo	(460 Cal.) 6 Cal. 454 Cal.	39 2951	443 494 442 451	(1323608 ) 19266 1304342 148959	60 60 60	
OVERLOAD PLUS EXTERNAL USEFUL I		15125		6594029		



PAGE 89
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



OVERLOAD AND EXTERNAL CROSS WEIGHT AND BALANCE CALCULATIONS JP-4 FUEL

17	1 0	TETTOT	MATO	START	THE OTHER	ă.
17	10	VERT	<b>NEW</b>	LAI	E-OFF	

	USABLE	C.G.		HORIZONTAL		HORIZONTAL		VERT	
	(GAL.)	M.A.C.	WEIGHT	Arm	Moment	Arm	Moment		
Weight Empty - Gear Down		26.7	23448		9894511		2144872		
Overload Useful Load	1514	30.8	11805	433.8	5121462	86.9	1026040		
OVERLOAD TAKE-OFF - Gear Down	1514	28.1	35253	425.9	15015973	89.9	3170912		
Moment Change - Gear Up					- 3848		40046		
OVERLOAD TAKE-OFF - Gear Up	1514	28.0	35253	425.8	15012125	91.1	321.0958		

#### (2) EXTERNAL TAKE-OFF

	USABLE FUEL	C.G.		HORIZONTAL			
	(GAL.)	M.A.C.	WEIGHT	Arm	Moment	Arm	Moment
Weight Empty - Gear Down		26.7	23448	422.0	9894511	91.5	2144892
External Useful Load	1968	31.6	15125	436.0	6594029	81.1	1226062
EXTERNAL TAKE-OFF - Gear Down	1968	28.6	38573	427.5	16488540		3370934
Moment Change - Gear Up					- 3848		40046
EXTERNAL TAKE-OFF - Gear Up	1968	28.6	38573	427.4	16484692	88.4	3410980

#### (3) MOST AFT C.G. - SUBSONIC

	USABLE FUEL	C.G.		HOR	IZONTAL	VERTICAL	
	(GAL.)	M.A.C.	WEIGHT	Arm	Moment	Arm	Moment
OVERLOAD TAKE-OFF - Gear Down	1514	28.1	35253	425.9	15015973	89.9	3170912
Less Fuel - Tank #1	-299		-1944	397	-771768	84	-163296
Less Fuel - Tank #2	-311		-2021	515	-1040815	84	-169764
Less Fuel - Tank #3	- 63		- 410	516	- 211560	87	- 35670
Less Fuel - Tank #F"	-236		-1534	235	- 360490	103	-158002
Less Fuel - Tank "T"	-170		-1105	573	- 633165	90	- 99450
Less Armament			-1375	338	- 465191	71	- 97918
MOST AFT C.C SUBSONIC	435	29.3	26864	429.3	11532984	91.1	2446812



PAGE REPORT NO. MODEL

T NO. ZW-8-519
ODEL F-106A
DATE 15 Nov. 1959



OVERLOAD AND EXTERNAL GROSS WEIGHT AND BALANCE CALCULATIONS JP-4 FUEL (Cont'd.)

(4) MOST AFT C.G. - SUPERSONIC

(4) MOST AFT C.G SUPERSONIC		-		-	-	-	-
	USABLE	C.G.		HORIZONTAL		VERTICAL	
	(GAL.)	M.A.C.	WEIGHT	Arm	Moment	Arm	Moment
OVERLOAD TAKE-OFF - Gear Up	1514	28.0	35253	425.8	15012125	91.1	3210958
Less Fuel - Tank #1	-299		-1944	397	-771768	84	-163296
Less Fuel - Tank "F"	- 60		- 390	235	- 91650	103	- 40170
Less Fuel - Tank "T"	-170		-1105	573	-633165		- 99450
Transfer from "F" Tank	-176		-1144	235	-268840	103	-117832
to "T" Tank	+176		+1144	573	+655512	90	+102960
Less Armament			-1375	338	-465191	71	- 97918
MOST AFT C.G. SUPERSONIC	985	33.5	30439	441.4	13437023	91.8	2795252

NOTE: Most Forward C.G., is the same as shown for Normal Gross Weight and Balance Calculations.



PAGE REPORT NO.

92 ZW-8-519 MODEL F-106A DATE 15 Nov. 1959



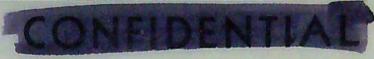
### MOMENT CHANGE - LANDING GEAR RETRACTION (Retractable Items Only)

		HORI	ZONTAL	VERI	CICAL
	Weight	Arm	Moment	Arm	Moment
LANDING GEAR EXTENDED (Airplane in Static Condition)	( 1269.3)	406	( 514894)	1414	( 56209)
Main Fairing Door Door Mechanism Wheels Tires Tubes Air in Tubes Brakes Drag Braces Side Braces Shock Struts Retraction Actuators Fluid in Retraction Actuators	( 1070.9) 53.4 67.0 33.2 96.0 102.0 15.5 2.2 190.0 38.4 63.0 374.2 30.2 5.8	452 452 452 452 452 452 452 452 452 456 457 447	( 484110) 24137 30280 15005 43392 46104 7006 994 85880 17357 28728 169138 13499 2590	45 54 45 67 25 25 25 25 25 25 25 481 81	( 48388) 2906 3029 2226 2400 2550 388 55 4750 2419 4509 20241 2446 469
Nose Door Door Mechanism Wheels Tires Tubes Air in Tubes Drag Brace Shock Strut Steering Damper Steering Actuator Retraction Actuator Fluid in Retraction Actuator	( 198.4) 22.9 4.2 19.6 16.0 4.3 0.6 17.6 70.6 32.8 5.9 3.4 0.5	155 133 130 162 162 162 162 145 158 164 167 145 146	( 30784) 3043 546 3175 2592 697 97 2552 11151 5379 986 493 73	39 52 55 21 21 21 21 21 38 43 31 38 66	( 7821) 1189 233 412 336 90 13 1021 3018 1029 223 224 33



FORM 1812-AZ

PAGE 93
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



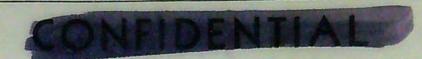
# MOMENT CHANGE - LANDING GEAR RETRACTION (Retractable Items Only) (Cont'd.)

	1.	HORIZ	CONTAL	VERT	CICAL
	Weight	Arm	Moment	Arm	Moment
LANDING GEAR RETRACTED	(1269.3)	403	(511046)	76	( 96255)
Main Fairing Door Door Mechanism Wheels Tires Tubes Air in Tubes Brakes Drag Struts Side Struts Shock Struts Retraction Actuators Fluid in Retraction Actuators	(1070.9) 53.4 67.0 33.2 96.0 102.0 15.5 2.2 190.0 38.4 63.0 374.2 30.2 5.8	452 452 452 452 452 452 452 452 452 456 456 457 447	(484110) 24137 30280 15005 43392 46104 7006 994 85880 17357 28728 169138 13499 2590	78 79 66 70 72 72 72 72 78 83 87 82 86 86	( 83763) 4219 4422 2324 6912 7344 1116 158 14820 3187 5481 30684 2597 499
Nose Door Door Mechanism Wheels Tires Tubes Air in Tubes Drag Struts Shock Strut Steering Damper Steering Actuator Retraction Actuator Fluid in Retraction Actuator	( 198.4) 22.9 4.2 19.6 16.0 4.3 0.6 17.6 70.6 32.8 5.9 3.4 0.5	136 133 130 115 115 115 115 12 142 140 137 151	( 26936) 3043 546 2254 1840 495 69 2675 10025 4592 808 513 76	63 54 60 68 68 68 68 63 58 65 68	( 12492) 1237 252 1333 1088 292 41 1250 4448 1902 384 231 34
MOMENT CHANGE - LANDING GEAR RETRACTION			- 3848		40046



PAGE REPORT NO. MODEL

94 ZW-8-519 F-106A DATE 15 Nov. 1959



#### LIST OF AUTHORIZED CHANGES

		AUTHORITY	WEIGHT	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO
		CCN NO.	WEIGHT	MOMENT
ECP 4117	Incorporation of ARDC vertical instru- ments		*	
ECP 4207	Addition of engine anti-icing valve failure warning	42	3.0	798
ECP 4214	Addition of engine oil filler cap access door	57	1.1	558
ECP 4251	Replacement of CFE and GFAE hydraulic and pneumatic gages		0.6	00
ECP 4287	Redesign engine idle thrust	82	3.4	1367
ECP 4319R1	Redesign of optical sight installation	118	1.0	128
ECP 4328	Light installation - ambient augmenta- tion	102	4.0	542
ECP 4333	Thermostatic switch installation	92	1.0	356
ECP 4379	Addition of exhaust nozzle drain line to accommodate engine change	104	1.0	552
TOTAL AUTHORIZ	ED CHANGES		15.1	4301

\*No weight is shown for this ECP because it is included in ZD-8-005C Specification weights (see page 98).



PAGE REPORT NO. MODEL

95 ZW-8-519 F-106A DATE 15 Nov. 1959



### INSTALLED ON THE ULTIMATE TACTICAL AIRPLANE

	SHIP				
ECP	EFFECT		WEIGHT	ARM	MOMENT
4230	58-772-0n	Addition of engine fuel supply strainer	14.0	532	7448
4216	59-001-0n	IFF/Tacan antenna multiplexing system	5.9	- 47	- 280
4221R1	001-0n	Deletion of dual oxygen system	- 5.8	138	- 802
4225R2	001-0n	Relocation of ground interphone jacks	3.0	319	959
4226	001-0n	Revision of hoses to constant speed drive	1.0	500	500
4255	001-0n	Relocation of emergency generator test switch	1.0	300	300
4282	001-0n	Elimination of power distribution noise	6.0	300	1800
4331	001-0n	Rocket and missile ignitor circuit revision	56.0	299	16745
4341	001-0n	Installation provisions for GAR-3A and -4A falcon missiles	46.0	345	15875
4358	001-0n	Activation of AFCS automatic modes	1.0	170	170
4312	031-0n	Installation of counter-counter measure	1.0	168	168
4386	031-0n	Revision of nose wheel well splash cover to increase durability	5.6	162	907
4190R1	060-0n	Incorporation of inlet duct mach warning light	2.2	207	455
4257	060-0n	Addition of fuel quantity tank 3 indicator	1.0	231	231



PAGE 96
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



#### ITEMS NOT ON THIS AIRPLANE BUT MAY BE

# INSTALLED ON THE ULTIMATE TACTICAL AIRPLANE (Cont'd.)

	OFF TO		-		
ECP	SHIP EFFECT		WEIGHT	ARM	MOMENT
4265	060-0n	Addition of hydraulic pressure test provisions	1.0	225	225
4272	060-0n	Mounting and power provisions for airborne recorder	6.0	208	1245
4364	060-0n	Addition of fuel line coupling boots	3.5	320	1120
4049	087-0n	Part III Supersonic pilot escape system and seat installation	149.0	168	24997
4176	087-0n	Tail hook installation	80.0	581	46480
4260	087-0n	Installation of time division data link	41.0	177	7253
4268	087-0n	Part II Installation of electric driven boost pump	9.4	274	2575
4313	087-0n	Installation of infra-red sight augmentation	70.0	227	15908
4430	087-0n	New filters for IFF/Tacan antenna	4.4	193	851
4408	112-0n	Addition of provisions for altitude hold and heading pre-select	1.0	175	175
4418	112-0n	Installation of vari-ramp time delay	2.5	225	563
4375	136-0n	Reanalysis and improvement to hydraulic system	1.5	452	678
4391	136-0n	Replacement of hydraulic quick dis- connect couplings	1.0	522	522
4352	ø	Incorporation of throttle lever rate of travel reduction	6.5	150	972



PAGE 97
REPORT NO. ZW-8-519
MODEL F-106A
DATE 15 Nov. 1959



#### ITEMS NOT ON THIS AIRPLANE BUT MAY BE

# INSTALLED ON THE ULTIMATE TACTICAL AIRPLANE (Cont'd.)

ECP	SHIP EFFECT	/	WEIGHT	ARM	MOMENT
4365	ø	LE-6 launcher	50.0	317	15850
4388	ø	Revision of ARDC wiring	1.0	200	200
4420	ø	Revision of MA-1 system switching	1.0	144	144
		TOTAL	566.7	290	164234

Ø No effectivity assigned at time report was written.



PAGE REPORT NO. ZW-8-519 MODEL

98 F-106A DATE 15 Nov. 1959



### GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT WEIGHT VARIATION

	AERNO NO.	NO. REQD.	005C SPEC. WEIGHT	CURRENT WEIGHT	OVER OR UNDER WEIGHT	CHANGE AUTHORITY
WEIGHT EMPTY						
LANDING GEAR						
Main						
Wheel Assembly, 30 x 8.8	1.7 2 (00	0	00.0	96.0	+ 4.0	
Type VII	41-1682	2	92.0	90.0	+ 4.0	
Casing, 30 x 8.8, 20 Ply Rating, High Speed, Type						
VII	41-1693	2	113.0	102.0	- 11.0	
Tube, Inner, 30 x 8.8,	.1 20/5	-	125.0	20210		
Type VII, Fabric Base	41-1678	2	13.2	15.5	+ 2.3	
Brake Assembly, 30 x 8.8,						
Wheel Type VII	41-1683	2	193.3	190.0	- 3.3	
Nose						
Wheel Assembly, 18 x 4.4 Type VII	41-1679	2	22.5	19.6	0.0	
Casing, 18 x 4.4, 8 Ply	41-1019	-	22.7	19.0	- 2.9	
Rating High Speed, Type						
VII	41-1680	2	17.0	16.0	- 1.0	
Tube, Inner, 18 x 4.4,						
Type VII	41-1681	2	4.1	4.3	+ 0.2	
TALLETT TOT ASSET						
POWER PLANT Engine Turbo Jet, Including						
Iris Afterburner Nozzle						
P & W J75-P-17 (As instal-						
led wet)	35-6066	1	5911.0	5816.0	- 95.0	
Starter-Combustion, Aircraft	1 - 00					
Engine, Type MA-11,	42-8830	1	48.0	48.0		
Constant Speed Accessory						
Drive System Consisting of:						
Gear Box-Engine Mounted	48-0571	1	15.8	15.8		
Transmission & Gear Box			-).0	17.0		
Assembly Fuselage -						
Mounted Including	48-0572					
Pads	48-0545					
Cover-Drive Shaft	48-0546	2	107.0	107.0		
Shaft-Drive Connecting	48-0556	7 6	0.7	1.0	+ 0.3	
Controller-Frequency and	10-0771	1	4.5	5.2	+ 0.7	
Load #663439	42-0544	1	4.5	4.5		
		1- 100		4.7		



PAGE REPORT NO. ZW-8-519 MODEL

F-106A

DATE 15 Nov. 1959



### GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT WEIGHT VARIATION

			005C		OVER OR	
	AERNO	NO.	SPEC.	CURRENT	UNDER	CHANGE
	NO.	REQD.	WEIGHT	WEIGHT	WEIGHT	AUTHORITY
WEIGHT EMPTY (Cont'd.)						
INSTRUMENTS						
Altimeter (Standby) Pressure						
AAU-2/A, WCLC1-1-50A	60-6301	1	1.3	1.5	+ 0.2	
Clock - Aircraft, 8-day,						
A-13A, MIL-C-6499	60-1201	1	0.5	0.5		
Compass-Magnetic, Pilots						
Standby, MB-1	60-1447	1	0.7	0.7		
Computer-Flight Director,						
CPU-4/A, WCLCI-i-47A						
Amend. #1	60-6309	1	10.0	10.4	+ 0.4	
Detector, Magnetic Azimuth						
DT-173/AJN MIL-D-25521	60-1487	1	1.5	1.5		
Generator-Tachometer,						
Electric, MIL-G-9398	61-8731	1	1.6	1.6		
Gyroscope Assembly,						
AF/A34G-1- Consisting of:						
Gyroscope, Displacement	60-6316		21.5	21.8	+ 0.3	
Amplifier-Power Supply	60-6317		9.0	9.0		
Control Compass	60-6318		1.8	1.1	- 0.7	
Adapter, Compass	60-6319	1	10.0	10.3	+ 0.3	
Gyroscope-Rate Switching,						
MC-1, MIL-G-25591	60-5938	1	1.5	1.4	- 0.1	
Transmitter - Rate Gyroscope	,					
TRU-2/A, WCLC1-1-46,						
Amend. #1	60-6311	1	3.0	3.7	+ 0.7	
Indicator-Airspeed, Indica-						
ted (Standby) AVU-2/A,						
WCLC1-1-51	60-6303	1	1.3	1.0	- 0.3	
Indicator-Airspeed, Mach						
Safe Speed, AVU-1/A,						
WCLC1-1-43A	60-6321	1	5.0	10.3	+ 5.3	
Indicator-Altitude, Vertical						
Speed, AAU-1/A,	60-6307	1	9.0	10.0	+ 1.0	
Amplifier-Altitude, Vertical						
Speed	60-6322	1	4.0	7.7	+ 3.7	
Indicator-Attitude Director,						
ARU-2/A, WCLC1-1-40A,	1000					
w/clamp on amplifier	60-6310	1	7.0	7.9	+ 0.9	
Indicator-Frequency Channel,					-	
ID-572/ARC	81-3382	1	1.0	1.0		
	-					



PAGE 100 REPORT NO. ZW-8-519 MODEL F-106A

DATE 15 Nov. 1959



COVERNMENT FURNISHED AIRCRAFT EQUIPMENT WEIGHT VARIATION

			005C		OVER OR	
	AERNO	NO.	SPEC.	CURRENT	UNDER	CHANGE
	NO.	REQD.	WEIGHT	WEIGHT	WEIGHT	AUTHORITY
WEIGHT EMPTY (Cont'd.)						
INSTRUMENTS (Cont'd.)						
Indicator - Fuel, Rate of						
Flow, EFU-1/A, MIL-1-25860	61-1230	1	1.0	0.5	- 0.5	
Transmitter - Fuel, Rate of	01-1230	7	2.0	0.7	7.7	
Flow, Synchro, MA-1,						
MIL-T-8275A	61-2456	1	7.5	7.5		
Indicator-Horizontal Situa-						
tion, AF/A24J-1, WCLC1-1-						
45B	60-6309	1	6.5	7.9	+ 1.4	
Amplifier-Horizontal Situa-						
tion	60-6315	1	3.5	3.8	+ 0.3	
Indicator-Pressure, Hydrau-						
lic, AGU-1/U, MIL-1-25861	61-1210	2	0.8	0.4	- 0.4	
Indicator - Oil Pressure,						
EGU-1/A, MIL-1-25950	61-1280	1	0.4	0.2	- 0.2	
Transmitter-Engine Oil						
Pressure, MH-5, MIL-T-						
25624	61-2479	1	1.0	1.4	+ 0.4	
Indicator-Tachometer,						
Electric, ERU 5/A, MIL-1-						
25863	61-1200	1	1.0	0.8	- 0.2	
Indicator-Temperature,						
Thermocouple, 0-1000°,	1					
EHU-4/A MIL-1-25852	61-1250	1	1.0	0.8	- 0.2	
Indicator-Thrust (Pressure						
Ratio) AEU-2/A, MIL-1- 25859	61-1270	2				
Transmitter-Thrust (Pressure		1	1.5	1.6	+ 0.1	
Ratio) MK-2, MIL-T-25485	61-2484	1				
Transmitter-Accelerometer,	01-5404	7	5.7	5.5	- 0.2	
Linear, TRU-3/A, WCLC1-1-						
41, Amend. #2	60-6300	1	-	TO THE REAL PROPERTY.		
Transmitter-Synchro, Angle	00-0300	7	2.5	1.4	- 1.1	
of Attack, MS-24378-1	60-1603	1	0.5			
Tube-Pitot Static, 115 Volt	00-7003	7	2.5	2.0	- 0.5	
AN-5816-3	60-9201	1	7.0			
	00-9201	4	1.0	0.8	- 0.2	



REPORT NO. 2W-8-519

PAGE 101 MODEL F-106A DATE 15 Nov. 1959



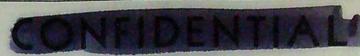
GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT WEIGHT VARIATION (Cont'd.)

					OTTON OR	
	AERNO	NO.	OO5C SPEC.	CURRENT	OVER OR UNDER	CHANGE
	NO.	REQD.	WEIGHT	WEIGHT	WEIGHT	AUTHORITY
WEIGHT EMPTY (Cont'd.)						
ARMAMENT - ORDNANCE Exactor-Type M-1A	93-0317	1	0.1	0.1		
Initiator-Type M-12, with	75 -5-1					
Cartridge (M-71) Lap						
Belt Release	93-0728	1	1.0	1.2	+ 0.2	
Initiators-With Cartridge	93-0316	4	3.2	3.2		
Type M-3 Initiators-With Cartridge	32-0210	+	3.6	3.2		
Type M-5A2	93-0318	3	2.4	2.4		
Thruster-With Cartridge						
Type M-3Al	93-0742	1	1.0	1.0		
Canopy Actuator (Electric) and Remover (Ballistic)						
Type T-18	93-0357	1	18.1	22.5	+ 4.4	
	73 - 371					
FURNISHINGS & EQUIPMENT						
Belt-Aircraft Safety, Lap,						
Automatic Opening, Type	45-1722	1	4.0	4.2	+ 0.2	
Harness-Shoulder, Aircraft		-	7.0	7.4	+ 0.2	
Safety, Type MB-3	or	1	1.1	1.1		ECP 4325
	45-2442					
	or 45-2447					
	47-2441					
PNEUMATIC AND HYDRAULIC						
Gage, Pressure, Direct						
Indicating, Pneumatic,						
0-4000 lb. per Type MS- 24478-2 MIL-G-25867	61-2341	-	0.6			
24410-5 HIL-0-23001	01-5241	3	0.6	0.6		ECP 4251
ELECTRONICS						
Interceptor System, Air-						
craft and Weapon Con-						
trol, Type MA-1 (Hughes Aircraft Co.)	54-4382	3	0006 0	ool-a		
Receiver-Radio	81-8160	1	2236.8	2247.0	+ 10.2	pan hanne
		1 2 0	3.0		- 5.0	ECP 4031R3



PAGE

102 REPORT NO. ZW-8-519 MODEL F-106A DATE 15 Nov. 1959



GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT WEIGHT VARIATION (Cont'd.)

	AERNO NO.	NO. REQD.	005C SPEC. WEIGHT	CURRENT WEICHT	OVER OR UNDER WEIGHT	CHANGE AUTHORITY
WEIGHT EMPTY ELECTRICAL Generator - AC 120/208 Volt. 3 Phase, 22 KVA Oil Cooled	42-6101	1	48.0	49.6	+ 1.6	
Exciter-Regulator, AC 115/200 Volt Panel-Control, AC	42-6102	1	20.0	21.0	+ 1.0	
Generator-DC, 30 Volt Oil Cooled, 100 Amp, Panel-Control, DC with Regu-	42-6110 42-6111	1	37.5	37.5	- 0.8	ECP 4213
TOTAL - WEIGHT EMPTY			9064.3	8979.6	- 84.7	

Want E I Want

PAGE 103 REPORT NO. ZW-8-519

MODEL F-106A

DATE 15 Nov. 1959



# GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT WEIGHT VARIATION (Cont'd.)

		The state of the s			
	NO. REQD.	005C SPEC. WEIGHT	CURRENT WEIGHT	OVER OR UNDER WEIGHT	CHANGE AUTHORITY
DESIGN USEFUL LOAD ARMAMENT					
Missiles-Air to Air, Hughes, GAR-3 and/or GAR-4 Rocket-Aircraft MB-1	14 1	540.0 815.0	550.0 828.0	+ 10.0 + 13.0	
Cartridge, Ballistic Rocket Ejector (ARD 446-1)	5	1.0	1.0		
Personnel Parachute-Back Type (Size 16 x 25 x 5 inches)	1	25.0	25.0		
Contents - Survival Kit - Seat Type	1	28.0	28.0		ECP 4278
TOTAL - DESIGN USEFUL LOAD		1409.0	1432.0	23.0	
SPECIAL LOAD MISCELLANEOUS					
Anti-Icing Fluid - Radome	2 Gal.	19.0	19.0		
TOTAL SPECIAL LOAD		19.0	19.0		



REPORT NO. ZW-8-519 MODEL F-106A

PAGE 104 DATE 15 Nov. 1959



#### CONTRACTOR RESPONSIBILITY UNDERWEIGHT

	WEIGHT
Contractor Weight Empty Guarantee (ZD-8-005C Specification)	23646.0
Total Authorized Changes, page 94	+ 15.1
G.F.A.E. Weight Variations, page 98	- 84.7
CURRENT CONTRACTUAL WEIGHT EMPTY GUARANTEE	23576.4
Actual Weight Empty, page 48	23448.0
CONTRACTOR UNDERWEIGHT	128.4



										INT	0 1-1	B-40 A	ANO	1-1B-	40	
						1	F	RECOF	RD O	F CH	ECKI	NG (	Ente	r da	te	1
	CHART A - BASIC WEIG	SHT CHECK	LIST			ERY DATE										-
PAGE 1	F22 PAGES AIRPLANE MODEL F-106A		SERIAL NUMBER			DELIVERY								1	1	
	T				1/						CHE	CK		-	-	
COMP ARTMENT AND 17EM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	1000	DEL IVERY EQUIPMENT	IN AIRPLANE	IN AIRPLANE N	CHART C ENTRY	CHART C ENTRY	IN AIRPLANE A	IN ATRPLANE OF	IN AIBPLANE OF	CHART C ENTRY	CHART C ENTRY	IN ATRPLANE OF
	CONTRACTOR HAR STANLED		-	1												
-	COMPARTMENT "A" RADONE															
	STA. 41 & PMD.															
A-1	Nose Boom		4	- 57	- 0.2	X						1			11	1
A-2	Radone - Plastic		144	11	1.6	X		-				1	11	1		
A-3	Automo MA-1	464017	72	30	2.2	X	1	-	1			1	-			-
A-4	Proposition - T-APX	464159	9	38	0.3	X		-	-	+-		1	+			1
A-5	Duplemer CU-462A/AFX-26 Duplemer CU-568/AFX-26	464032	4	30 38 39 39 39	0.2	X	H	-	11	-		1	+			
A-6	Duplemer CU-568/APK-26	464132 464566 464152	5	39	0.2	X	1	+	++	+		1				
	Amalizier AM-1242/APX-205	464566	6	39	0.2	X		-	+		-	H				
A-7 A-8	Switch - Naveguide	464152	3	39	0.1	X	+	-	++	+		1				
A-9	Isolator WK-2154 (2)	464079	2	- AT	0.1	Х						11				
	COMPARIMENT "B" FWD. RESCURONICS	-								+	1					H
	STA. 41 - 102														2 12	
181		464116	2	42	0.1	X				1	1			1	100	10
B-1	Waveguide	464173	25	47	1.2	X	1		1						0 0	70
B-2	Rack - Radar Antenna	464065	170	51	8.7	X										ct
B-3	Transceiver	464190	1	2	0.2	X	1				11			T	л	ह
B-4	Duct - Receiver Cooling	46402h	2	94	0.1	X									4	
B-5	Gage - Pressurisation L.H.		3	56	0.2	X	T								4	MZ
3-6	Angle of Attack Transmitter	464318	6	56	0.4	X									6	8
B-7	Interconnect Box R.H.		10	66	0.7	X	900, politica								OA	1-8-519
B-8	Converter - AC Input R.H. Switch - Analog Sample R.H.	464023 464051	7	66	0.5	X									0	No

								<b>CARLON</b>	-	DESCRIPTION OF THE PERSON NAMED IN	THE OWNER WHEN	Name and Address of the Owner, where	- AN OI		and the latest designation of the latest des
	TERY DATE	R	ECORI	OF	CHECK	ING (	Enter	date	,						
AGE 2 0	F 22PAGES ATRPLANE MODEL	SERTAL NUMBER	0661				L				L				
NUMBER NUMBER	TEMS AND LO	TITEMS AND LOCATION WEIGHT ARM	MOMENT	DELIVERY	AME L	2	3	14	ECK 5	AME O	7 202.0	o Will			
COMPARTMENT AND ITEM NUMBER						1.000	EQUI	IN AIRPLAN	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN ATRPLAN	IN AIRPLAN	IN AIRPL	IN AIRPL
-	COMPARIMENT "B" FWD. ELECTE	CONTES													11
	StA. 41 - 102 (Cont'd.)							11		1	1	11	1	11	11
						-	-	H	11	+	1	1	+	11	11
B-10	Generator-Pulse - Clock	R.H.	464489	7	66	0.5	X		1		1	-		1	1
B-11	Regulator - Voltage 15V DC	In He	100			-	10	++	++	+	+	+	+	11	+
	(or Item B-17)		464391	3	66	0.2	OX	11	+	+	+	1-1	11	-	+
B-12	Amplifier ANI243/APX		464108	5	66	0.3	X	++	11	1	11	11	11	1	1
the same of the sa	Synchroniser	L.H.	464303 464567	2	66~	0.3	X	++	+		1	1		11	
	Amplifier APX-26	L.H.	464866	14	66	0.9	X	11	1			11	1	11	1
B-15	Amplifier - Xmtr. Tuning	L.H.	NAME AND POST OFFICE ADDRESS OF TAXABLE PARTY.	14	- 00	V. 2	A	11	1			1	1	11	1
B-16	Per. Supply-Transistor Plus (or Item B-17)	JOY DO E	464126	8	72	0.6	0	11					1	11	
77	Pur. Supply Francistor D.C.	Y.H.	40125											1	
B-17	(or Item B-11, B-16 and B	16)	464326	10	72	0.7	X							1	
8-18	Power Supply Minus 250V DC	L.H.	464192	21	72	1.5	X								
8-19	Filter DC Pwr. Minus 140V	L.H.	464791	5	72	0.4	X								
	Amplifier-Torque - Rate Gyr	NAME AND ADDRESS OF TAXABLE PARTY.	464041	10	72	0.7	X							Da	
	Test Set #2	L.II.	464196	3	72	0.2	X							te	6
	Converter - DC Analog	R.H.	464123	14	74	1.0	X							1	-
	Comtrol - Input - Output	R.H.	464255	23	74	1.7	X							-	1
8-24	Tester - Digital Computer	R.H.	464296 464323	13	74	1.0	X							5	9
B-25	Converter - Signal Data	R.H.	464323	10	74	0.7	X		1					S Movie	1
B-26	Converter - ACC	L.H.	464020	7	78	0.5	X	-	-	-				1	36
B-27	Switch Box - Test	L.H.	464063	3	78	0.2	X	1	1					-	N. L
B-28	Comparator-Signal-AMTI	L.H.	464150	7 8	78 78 78	0.5	-	1	-					959	919
	Amplifier - Antenna - Serve	Li-H.	464206	0	10	0.6	X							NO	1

		-					T	-	Contract of the last	MANAGEMENT OF THE PARTY NAMED IN	T.O. 1-		ASSESSMENT OF THE PERSON NAMED IN	Name and Address of the Owner, where the Owner, which the	
								R	ECORE	OF .	CHECK	NG (	Entes	date	)
	CHART A - BA	SIC WEIG	HT CHECK L	IST			VERY DATE								
AGE 3 O	F22 PAGES ATRPLANT MODEL F-	106A		SERIAL NUMBER			OELIV								L
	T					1/				-	CH	ECK		1 -	1
COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCAT			WEIGHT	ARM	MOMENT 1000	DEL IVERY COULPHENT	AIRPLANE	IN AIRPLANE	IN AIRPLANE	AI RPLANE	IN AIRPLANE OF	3 =10	IN AIRPLANE	IN ALMPLANE
8 =	Well the transfer	T COLD					1	A MI	- 1		IN A	IN A	THE	= 3	
	COMPARIMENT "B" FWD. ELECTRON STA. 41 - 102 (Cont'd.)	17.00						1	1	1	1	I			
-	OIA. 42 - ZOS (COZO CO)														
B-30	Amplifier - Antenna -Control	L.H.	464241	11	78	0.9	X		1			1	1	11	11
B-31	Computer - Steer Signal	L.H.	464346	7	78	0.5	X			1	1				1
B-32	Amplifier - AMTI	L.H.	464495	4	78	0.3	X	H	1	1	1	1-		11	11
B-33	Rack - R.H.		464273	84	80	6.7	X	11	11	+	1+	11	1	1	1
B-34	Rack - L.H.		464073	77	81	6.2	X	$\sqcup$	11	1	+	++	+	1	11
B-35	Comparator - Analog Digital	R.H.	464050	2	84	0.8	X	1	+	+	++	++	1+	++	1+
B-36	Relay - Digital Output	R.H.	464064	15	84	2.2	X	11	+	1	+	1	++	++	1
B-37	Computer - Digital Arithmetic	R.H.	464146	26	84	1.0	X	11	1	1		+	+	1	11
B-38	Memory - Shift Register	R.H.	464157	-	-		X	1	1	-		++	++	1	+
B-39	Filter - 1600 Cycle	L.H.	464425	13	85	1.1	X	+	-		+	1		1	1
B-40	Gate - Clutter	L.H.	464082	1	85	0.6	X	-	-				+	1	2 11
B-41	Amplifier - Video Track	L.H.	464095	6	85	0.5	X		-			1		-	1
B-42	Meter - Self Test Radar	L.H.	464096	3	85	0.3	X	-						10	e je
B-43	Amplifier - Azimuth Driver	L.H.	464106	10	85	0.9	X					1	1		· et
B-lale	Amplifier - Intermediate Free	le IsoHe	464295	5	85	0.4	X						-	1	di
B-45	Amplifier - Elev. Driver	L.H.	464906	7	92	0.0	- 1							-61	
B-46	Power Supply - Minus 50V DC	L.H.	464226	8	91	0.7	0	1		-				6	E Z
	(or Item B-17)	-		And in concession in concessio	91	0.5	-						1	-	1
B-47	Synchro Master Timer	L.H.	464003	3	91	0.3	X	1		-			1	1	106-519
B-48	Oscillator - RF	L.H.	464093	And in case of the last of the	ACM DESCRIPTION OF THE PARTY OF	SHOW THE RESIDENCE AND ADDRESS OF THE PERSON.	MARINE MARINE						1	959	1
B-49	Synchro. Range Track	Lee He	464141 464141	30	91	0.6	X	1						10	10
B-50	Amplifier - Antenna Track	L.H.	464389	10	91	0.5	X								
B-51	Constant used below line.	L.H.	404707		Zh			-			-	_	-	-	-

										the Real Property lies, the Person Lies,	T O. I-	THE REAL PROPERTY.	OR THE OWNER, THE OWNE	Name and Address of the Owner, where the Owner, which the Owner, which the Owner, where the Owner, which the	
	CHART A - E	ASIC WEIG	HT CHECK L	IST			IVERY DATE	R	ECOR	OF	CHECKI	NG (	Enter	det	
AGE 4 O	F22 PAGES ATRPLANE MODEL F-1	06A		SERIAL NUMBER			A Tag								
COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCA (Grouped by Compa			WEIGHT	ARM	MOMENT 1000	DEL IVERY EQUIPMENT	AIRPLANE	2 2 20 20 20 20 20 20 20 20 20 20 20 20	3 TANE	14	ECX S ANTE	PLANE OF	7 ANE 7	O TANE
COMPA							190	IN AIRP		IN AIRPLANE	IN AIRPLANE	IN ATPLANT	IN AIRPLANE CHART C ENTRY	IN AIRPLA	IN A! R
	COMPARIMENT "B" FWD. ELECTRO	NICS													
	STA. 41 - 102 (Cont'd.)									1			11	Н	$\vdash$
					-		+-	1	-	++		1		++	++
	Converter - Signal Time	L.H.	464523	8	91	0.7	X	H	++	++	++	11	-	+	++
B-53	Memory - Magnetic Drum		464057	33 21	95	3.1	X	1	++	+	++	1	-	11	+
B-53 B-54 B-55	Computer - Digital	R.H.	464446	18	95 95	1.7	X	11	++	+		1+		+	+
B-55	Amplifier - Memory Read	R.H.	464657	10	95	1.0	X	1	11			11		11	11
	Memory Read Gates	R.H.	464292	4	95 97	0.4	X	11	++		11	1		11	11
B-57	Regulator Plus 100V/Mimus 14	L.H.	b64591	7	97	0.7	X	11		1					
B-58	Filter - Direct Current Filter - Plus 150V DC	L.H.	464991 464991	5	97	0.5	X						11		
B-59 B-60	Amplifier - Sweep Gen Ind		464195	7	97	0.7	X	1							
B-61	Converter - Attack Display	L.H.	464223	8	97	0.8	X								
B-62	Amplifier - Attack Display		464395	7	97 97	0.7	X								
B-63	Amplifier - Steer. Signal		464341	8	97	0.8	X								
														100	0
														6	00
								1				11	1		- 14
					-			-				1	1	-	- 8
				-	-		-	-	-	-			1	57	
		-		-	-	-	1	1	-	-	-	-	11	6	Z E
				-	-		-	-	+	-		+	+	K	200
				-	-	-	-	+-	-	-	++	-	-	10	201
				-	-	-	-	1	-	-		+	-	200	0
				-	-	-	+	+					++	1	-
	constant used below line.				1		-	1	-				1	11	

*************							Name and Address of the Owner, where the Owner, which the	STREET, SQUARE, SQUARE	TOI	-	_			
	CHART A - BASIC WEIGHT CHECK L	IST				R	ECOR	OF	CHECK	ING	(En	ter	date	
	CHART A - BASIC WEIGHT CHECK L	131			ERY DATE						-			
AGE 5 OF	F22 PAGES AIRPLANE MODEL F-106A	SERIAL NUMBER			ספרוא						1			
				1/		-	1 -	1 2	1	HECK	T	6 1	7 1	A
COMPARTMENT AND ITEM NUMBER	(Grouped by Compartment)	WEIGHT	ARM	1000	DEL IVERY EQUIPMENT	AIRPLANE	1 4	AIRPLANE	CHART C ENTRY	AIRPLANE	C ENTRY	T C ENTRY	CHART C ENTRY	AIRPLANE
COM	*ARDC EQUIPMENT OR LOCATION CHANGE DUE TO					A N-	× ×	N N	CHART	CHART	CHART	CHART	CHART	IN AIR
	COMPARIMENT "C" COCKPIT						11	1	1					1
	97A. 102 - 217		-	-	-	1	11	-	-			+		
		6	700	0.7	X			+						
C-1	Transformer - Windshield Anti-Ice Indicator - Search and Attack 464080	18	109	2.1	X									
0-2	Control Box - Windshield Anti-Ice (or Item C-32	Street, or other Designation of the last o	117	0.8	0									
c-A	Amplifier - Vert. Sit. Ind. 464306	10	119	1.2	0									
C-5	Rack Elect. EquipHoriz. Sit. Ind. 464102	4	120	0.5	X	1				-	1			
C-6	Ammittier-Mach-Airspeed 60-6321#	10	120	1.2	0	11	-	-		-	11			11
C-7	Aumlifier - Vert. Speed 60-6322"	8	120	1.0	X					-				1
c-8	Indicator - Horisontal Sit. 464180	82	121	9.9	0	++	-	-		-		+		11
C-9	IndHoris. Situation AF/A2AJ-1 or 60-63088	8	125	1.0	X						H			1
C-10	Course Ind. (or Item C-12) ID-367	3	128	0.4	0	++								1
C-11	Indicator - Directional (or Item C-13) 60-1482	2	128	0.3	0	1					11	-		1
C-12	Indicator - Course (or Item C-10) 60-1901		128	0.5	0									B
C-13	Indicator - Horis. Approach(Or Item C-11)60-190	0 2	128	0.3	X								1	B
C-14	Control - Flight Mode 464163	3	128	0.4	0	1							T NO	-
C-15	Sight - Control - Non-Computing 464169 Control - Redar 464305	2	128	0.3	X		10						+ 6	
	A COOL	2	128	0.3	0								19	6
C-17	Contract Con	2	128	0.3	0									
C-18			128	0.5	0	1							5	1 2
C-19	Indicator - Airspood and Angle of Attack				0								E	
C-20	Altimeter MD-1	-	128	0.3	0								10	(P)
C-21	Attitude Cyro IMI-3	2	128	0.3	1000									5
C-22	Fuel Quentity Ind. and Switch Indicator - Mach AVU91/A or 60-6306*	10	128	13	X								0	P
C-23	constant used below line.												9	

								-	USE IN	_	_	-		-	-	F
	CHART A - BASIC WEI	IGHT CHECK L	IST			ERY DATE		-							Ĭ	-
PAGE 6 0	OF 22 AGES AIRPLANE MODEL P-106A		SERIAL NUMBER			A1730										1
				1	1/						CHEC	K				
NO NUMBER	Table we receive					-	1	2	3	1 4		5	6	7	8	
AND NUM	(Grouped by Compartment)		WEIGHT	ARM	MOMENT	ERY	F V B V		E E	IE BY	7 4	RY	1 × 1	W >0		N.
A AN N	(Grouped by Compartment)				1000	DEL IVERY EQUIPMENT	PLANE	1	LA CH	EN S	ENT	ENT	PLANE	3	I PPL ANE	ENTRY
COMP ARTMENT AND STEM NUMBER	WARDC EQUIPMENT OR LOCATION CHANGE D	OUE TO				EGU	2 0	IN AIRPLANE	IN AIRPLANE	CHART C ENTRY	HART C	CHART C ENTRY	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	HART C
	COMPAREMENT "C" COCKPIT			1	-	+	-		1	0	0	0	9	1		=
	STA. 102 - 217 (Cont/d.)				1	1		1	+	+	-		-	++		-
				-				++	++							
C-54	IndAttitude Director ARU-2/A or 6	0-6310#	8	128	1.0	X			1							
C-25	IndVertical Speed AAU-1A or 6		10	128	1.3	X								1		
C-26		0-6301#	2	128	0.3	X								1		1
C-27	IndPress. Ration AEG-2/A or 6		2	128	0.3	X		1						1		-
C-28	Centrol Box - Windshield Anti-Lee		7	130		X										
C-29	Light Shield - Radar Scope		3	130	0.9	X								1		
C-30	Control, Radar Set - AZ Sean & Horis	ZOR												1		
	Adjust b	64 <b>855</b> 64405	2	134	0.3	X								1		
C-31	Control - Taoan 4	64405	3	137	0.4	X										
C-32	Control Box - Windshield Anti-Ice (	or Item C-3)	7	137	1.0	X										
C-33 C-34	Stick Grip - Yoke 4	64083	4	138	0.6	X								1		
C-34	Stick Grip - Single Hand		3	138	0.4	0									1	
6-35	Refer Courteol - Automatic 4	64855			0.3	=										
C-36	Control - CCI 4	64605	3	144	0.4	X								5	D >	P
C-37	Switch - Armment Selector		2	145	0.3	X								ate:	10	26
C-38		-09633	2	145	0.3	X								to to	707	
C-39		64355	3	148	0.4	X								1	1	
0-40	Control - Communication 46	Sh 505	6	148	0.9	X								5	0	
C-41		2-6315#	4	150	0.6	X							1	1		1
C-45	Control Box - Cabin Temp. (or Item		16	152	0.6	X								Nov	72	0
C-43	Receiver - Broficen		3	158	0.5	0								0	KE	
C-life	Control, Power System 4	64905	3	159	0.5	X								0	14	
C-45	Control Box - Cabin Temp. (or Item C	(-42)		163	0.6	v					1000			10	2	

						-	-	-	-	-	AN OJ		and the latest designation of the latest des
					1	R	ECORE	OF	CHECK	ING (	Enter	date	)
	CHART A - BASIC WEIGHT CHECK L	IST			DATE								
	ATRPLANE MODEL	SERIAL NUMBER			IVERY								
PAGE 8 0	F22PAGES F-106A	SERIAL NUMBER			130								
			T	1/					СН	ECK	-	-	-
NRTMEN T					1	1	2	3	4	5	6	7	8
TME	ITEMS AND LOCATION	WEIGHT	ARM	MOMENT	VER MEN	ENTRY	FNTRY	N.E.	3 78	TRY TRY	ENTRY	PLANE	WE
A A Z	(Grouped by Compartment)			1000	DEL TVERY FOUTPMENT		AIRPLANE	Total Total	RPL	1 de	RPL	18PL	ATRPLANE
COMPARTMEN AND ITEM NUMBE	*ARDC EQUIPMENT OR LOCATION CHANGE DUE TO				0.0	AIR	AIR	IN AIRPLANE	IN AIRPLANE	IN APPLANE	IN AIRPLANE		IV .
0 -	ARDC INSTI.		-		1	CHART	IN A	- N	N- NAH	N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-	CHART	IN A	N N
	COMPARTMENT "D" NOSE WHERL WELL	-	+					1			1	1	1
	STA. 102 - 163							1					1
-		1											
D-1	Transformer-Rectifier-Elec. Camopy Actuator	8	107	0.9	X								
D-2	Battery - Electric Canopy Actuator	6	107	0.6	X								
D-3	Switch - Pressure Ratio	4	110	0.4	0				11				1
D-F	Panel, Self Test Aircraft and Weapon Control					1	1	1	1	11	++	1	11
	System R.H. 464004	5	110	0.6	0	1	1	11	11	1	11	1	11
D-5	Rack-Air Data Converter L.H. 464673	2	118	0.2	X		++	1	11	++	+	++	++
D-6	Comparter - Air Data (or Item D-7)L.H. 464823	35 36	118	4.2	0 X	+	++	+		11	+	++	+
D-7	Charles and come toward from the comment of the com	30	110	4.6	1 1	++	++	+	+	++	++	11	11
D-8	Buttery and T.R. Unit (See Below)	16	118	1.9	X	1	+	+	++	++	++	++	+
	Battery Transformer-Rectifier	15	124	1.9	X	1	+	-	+	+	+	1+	1
D-9	Rack-Air Data Computer R.H. 464773	- 5	121	0.6	X	1	1	1	1		+	11	+
	Competer - Air Data R.H. 464646	26	121	3.1	X	1	1						1
	Splash Curtains	4	133	0.5	X	1	1					1	1
	Attitude Rate 464320*	5	135	0.7	X							Date	S R
D-13	Amplifier - HIG Steer Control	3	138	0.4	X							te	Repo
D-14	Anniifier - Trim Servo	4	138	0.6	0								17:
D-15	Communator - Air Data (or Item D-16)IH 464921	8	140	1.1	0							5	E
D-16	Compensator Air Duta (or Item D-15) 4647210	10	140	1.4	X						1	1	0
D-17	Transmitter - Pressure Ratio 1K-2	6	158	0.9	X	1	-	1	-	1	11	OV.	'N
D-18	Oxygen - 5 Liters Liquid	13	162	2.1	X	11	11	-	-	-	1	4	SE
			-		-	11	11	1	-	-	1	OF	700
												10	F

A STATE OF THE PARTY OF THE PAR							FOR	USE I	NTO	0 1-11	9 40 B	AN 01	1B-40	
						F	RECOR	D OF	CHI	ECKIN	16 (1	Enter	date	)
	CHART A - BASIC WEIGHT CHECK L	IST			ERY DATE				-					
AGE 901	F22 PAGES AIRPLANE MODEL F-106A	SERIAL NUMBER			DELIVE									
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COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT .	ARM	1000	DEL IVERY EQUIPMENT	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	CHART C ENTRY	CHART C ENTRY	IN AIRPLANE ON CHART C ENTRY	IN AIRPLANE OF	IN AIRPLANE	AIR
	COMPARIMENT "D" NOSE WHEEL WELL				-	-	1	ů .	Ö	0	0	0	0	++
	STA. 102 - 163 (Cont'd.)			-			1			+1	+			11
	State of the state			1										1
D-19	Converter - Liquid Oxygen:													
	Converter - Liquid Oxygen: 8-09277-1 (21090) or (29007-0) or (29007-1-1) (or Item D-20 or D-21)													
	(or Item D-20 or D-21)	12	162	1.9	0		11				1	11		11
D-20	Converter - Liq. Oxy. 92-67001-001 (10800-3) (or Item D-19 or D-21) Converter-Liquid Oxy. (or Item D-19 or D-20)			-	+	1	+			+	-	1	+	11
	(or Item D-19 or D-21)	18	162	2.3	X	1	+	-	1		-			11
0-21	Comverser-Liquia City. (or 136m H-19 or H-20)	-	108	4.7	-	11		1				1		1
					-								11	1
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			-	+	+			-	H			++	11	-
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													0	
	constant used below line.							1					0	

					AND DESCRIPTION OF THE PERSON NAMED IN COLUMN				FOR	JSE IN	TOI	-18-40	W AN O	-1B-40	
								F	ECOR	D OF	CHECK	ING	Enter	date	2)
	CHART A -	BASIC W	EIGHT CHECK L	IST			ERY DATE								
PAGE 10 0	PAGES ATRPLANE MODEL	F-106A		SERIAL NUMBER			DELIV				1				
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AND NUMBER	ITEMS AND LO			WEIGHT	ÄRM	MOMENT	DEL IVERY EQUIPMENT	FNTRY	2	3 aw	ENTRY PLANE P	PPLANE G	I RPLANE 9	I RPLANE	ENTRY
COMPARTMENT AND ITEM NUMBER						1000	DEL 1 EQUI	The second second	8	1 4	CHART C ENTR	IN ATPPLANE	IN AIRPLANE		1 8 C
	COMPARCMENT "E" UPTER AFT	ELECTRO	ITCS												
	heart of Const														
E-1	Regulator - Voltage	L.H.	464491	11	179	2.0	X					1		1	11
E-2	Regulator - Voltage DC	R.H.	464892	10	179	1.8	X					1			11
E-3	Regulator - 400/1600 CPS	L.H.	464892	22	179	3.9	X					11	-	11	11
End	Interconnect Box #2	R.H.	464118	6	179	1.1	X	1	1	1		++	+	1	1
E-5	Pitch and Yaw Transducer			3	THE RESIDENCE OF THE PARTY OF T	0.5	0	-	++	1		+	-	++	++
E-6	Peter Control Unit - Gyro		46k008	12	185	2.2	X	1	1					++	++
E-7	Reseiver-Glideslope & Mari		m L.H. 464267		185	1.9	X	++	+					++	++
E-8	Receiver - Localiser	LaH	464367 464429	9	185	1.7	X	++		-			++	++	+
E-9	Bearing Transmitter - Toes		460029	15	185	2.8	X	1						11	
E-10	Interconnect Box #1	R.H.	46401B	7	185	1.3	X		1					++	+
E-11	Relay +/- Veltage	R.H.	h/Shoop	3	185	0.9	X	1						1	1
E-12	Filter - DC Veltage	R.H.	LCh Day	1	185	0.9	X	1						11	11
B-13	Filter - DC Voltage	R.H.	464062 464092 464093 464097 464496	8	191	1.5	X	1						1	-
E-14	Power Sumply #1	ReHe ReHe	hahhaa	2	191	1.0	X							TO CO	Reg
E-15	Post Set Relay	LaH.	464067	26	191	5.0	X							10 0	0 0
E-17	Receiver - Data Link Range Transmitter - Tacan		464329	D. AND DESCRIPTION OF THE PARTY	191	2.5	X								. 4
E-18	Rack - L.H.	ART 164.2	464074	13	194	7.8	X							5	jo.
E-19	Rack - R.H.		464174	53	194	9-9	X							2	1
E-80	Relay - Armament Centrol	R.H.	464264	8	197	1.6	X							1959 TOW	E
E-21	Relay - Node Select	R.H.	464464	6	197	1.2	X							TE	5 6
B-22	Tumer - Band - UHF	L.H.	464025	10	197	2.0								6	15
E-23	Modulator - Tagen Recorder		464229	16	197	3.2	X							50	6

	CHART A -	- BASIC W	EIGHT CHECK	LIST			RY DATE	R	-	-	TO I-	-	Enter		_
611 0	F22 PAGES AIRPLANE MODEL F.	-106A		SERIAL NUMBER			341730								
2		-				1/				-	CHI	ECK			
BER	ITEMS AND LO						1. +	1	2	3	4	5	6	7	8
AND	(Grouped by Con			WEIGHT	ARM	MOMENT	MEN	ENTRY	N. N. T. P. Y. T. P.	NE	NE	NE	NE TRY	ME	NE
COMPARTMENT AND TTEM NUMBER						1000	DELIVERY	IN AIRPLANE	10	IN AIRPLANE					
	COMPARIMENT "E" UPPER AFT	ELECTRON.	ICS						1		T				
	STA. 170 - 217 (Comt'd.)														
-ah	Samuel A 400 mar. A 5000	0 **	10/6/												
	Amplifier - ADF	Leo H.	464606	9	197	1.8	X			1					
-25 -26	Entr UHF Transcoiver - Tacon	L.H.	464099	23	203	4.7	X		-		-			1	11
-27		L.H.	46k129 46k0k3 46k266	25	203	5.1	X	-	+	-	++	-	-	1	1
	Amplifier - Missile Antenn	R.H.	464266	9	204	1.8	X		1	1			1	1	1
the state of the later of the l	Relay - Parameter Setting	R.H.	464364	11	204	2.2	X						1	1	1
-30	Regulator - DC Voltage	R.H.	464692	13	209	2.7	X					9			
-31	Amplifier - Missile Antenn	a Test R.	н. 464366	5	209	1.0	X								1
	Receiver - UEF		464167	26	210	5.5	X								
-33	Power Supply - Communicati	one L.H.	464392	12	810	2.5	X		1	11			11		11
		-		-	-		-		1	11	1	-		1	11
-				+	-	-	-	-	++	++	-	1		1	11
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	NAME OF THE OWNER OF THE OWNER.									1	+			Da Mo	: 127
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	CHART A - BASIC WEI	GHT CHECK L	IST			ERY DATE								
AGE 120	F22 PAGES ATRPLANE MODEL F-106A		SERIAL NUMBER			0EL I V								
					1/					СН	ECK			
COMPARTMENT AND TEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	1000	DEL IVERY EQUIPMENT	AIRPLANE	12/	2	IN AIRPLANE PHART C ENTRY	IN AIRPLANE OF	IN AIRPLANE OF	IN AIRPLANE L	IN AIRPLANE
55	*ARDC EQUIPMENT OR LOCATION CHANGE DI ARDC INSTL.	UE TO					CHART	A N Page	Z .	IN A	CHART	CHAR	IN A	2
	COMPARIMENT "F" LOWER AFF ELECTRONIC	CS												
	STA. 163 - 217													
									11					11
F-1	Dehydrator (or Item F-51)	463097 464045	4	169	0.7	0		1	1	1	1	-	1	11
P-2	Compressor - Air (or Item F-14)	464045	8	171	1.4	0		11	11	11	11	1		
F-3	Rack - Stable Element	464474	6	175	1.1	X		11	1	++	11	11	11	1
Fd	Stable Element	161289	56	175	9.8	X		1	++	1	++	++	-	1
F-5	Switch - RF Transmission	464263	6	176	1.1	X		-	++		++	++	1	1
7-6	Gyro - Vertical MD-1		7	177	1.2	0		++	11	++		-	1-	11
7-7	Gyro Control - Roll		7	177	1.2	0	1	1	+		1	1+	1+	1
F-8	Valve - Air Regulat, Press.	464107	3	177	0.5	X	1	11	1	++		1		1
1-9	Oyro Displacement	60-6316#		177	3.9	X	-	++	-	11	11	11	1	
F-10	Adaptor - Compass	60-6319*		178	1.8	X		-	-	-	++	-	1	1
7-11	Amplifier - Power Supply	60-6317*	9	178	1.6	X	1	1		-	1	1	1	
7-12	Servo Amplifier J-4 Compass 60-146	38 (02-			+	-		+			-	-		-
	-100m 7-37)	-11	11	178	2.0	0	-	+		-	1	++	H	2
7-13	Control Unit - Vari-Ramp (or Item	F-34)	6	178	1.1	X	-	1		+	-	++	Det	Rel
7-14	Compressor - Air (or Item F-2)	464045	8	178	1.4	X	++	++	-	-		+	0 0	10
-15	Steering Computer	562A-3B	14	178	2.5	0	1	+	-	1	+	+	1	4.
-16	Nount - Steering Computer	MT-35M-A1		178	0.5	0	++	+		1	1	11	5	No:
-17	Coder - AFX-19	464028	13	184	2.4	X	1	+1	-	1	11	-		1:
F-18	Rack - Coder - AFK-19	464502	2	184	0.4	X	-	1	-	-	1	-	Nov. 1959	12 1
F-19	Gyro Rate Switch MC-1		5	186	0.4	0	1	+		-	11	++	-	515
P-20	Cyro - Vertical	K-4B	13	186	2.4	0	1	11	-	1	1	+	100	Ni
F-21	Demodulator - Channel L. H.	464209	4	187	0.7	X	1	11	-	1	11	-	5	E
F-22	"J" Box and Lat. Counter L.H.	464409	8	187	1.5	X					11			

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	CHART A - BASIC WEIGHT CHECK I	LIST			DATE								
GE 130	F 22 PAGES APPLANE MODEL F-106A	SERIAL NUMBER			DELIVERY					-			
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BER .					1.	. 1	12	3	4	1 5	6	7	1 8
ND	(Grouped by Compartment)	WEIGHT	ARM	MOMENT	LEN X	NE VE	S Z	N.E.	NE NE	NE NE	NE NE	NE NE	W Z
AND I TEM NUMBER	*ARDC EQUIPMENT OR LOCATION CHANGE DUE TO			1000	DEC IVERY EQUIPMENT	IN AIRPLANE	IN AIRPLANE		IN AIRPLANE	0 2	IN AIRPLANE	ALA	IN AIRPLANE
	ARDC DUSTL.	-	1		-	2	1		5	3	8 3		IN
	COMPARTMENT "F" LONGR AFT BLECTRONICS	-		-			11	1		++	+	11	1
-	STA. 163 - 217 (Cont'd.)	+	-	-	-		++	++	+	++	++	11	
F-23	Gyro - Roll and Pitch Rate (or Item F-B)464127	7 4	190	0.8	X		+	1		+		1	H
r-24	Converter - Signal Data 464720		190	1.3	0		1	1				1	
F-25	Relay - Power Transfer(or Item J-8)L.H. 464162		191	4.8	0								
F-26	Antenna - Data Link	13	192	2.5	X								
F-27	Amplifier - Asimuth L.H. 464309	13	193	2,5	X								
F-28	Rack - Stable Platform L.H. 464374		196	3.5	X								
F-29	Recorder-Search & Attack 464149 & Rack 464702		196		X								
F-30	Pitch and Yaw Amplifier (or Item J-9)	20	197	3.9	0								
F-31	Amplifier - Nav. and Approach R.H. 464221		198	2.8	0								
F-32	Amplifier - Steer Converter R.H. 464421		198	2.4	0								
F-33	Amplifier - Integrator L.H. 464009	15_	199	3.0	X								
F-34	Control Unit - Vari-Rasp (or Item F-13)	6	199	1.2	0								Repo
F-35	Rack - Rice. Equip Cockpit Display 464602		200	0.6	X								po
F-36	Transceiver - AFK/19 L.H. 464265	29	201	5.8	X							D	5月
F-37	Serve Auglifier-J-4 Compass (or Them F-M) (0-148	38 11	201	2.2	0							et c	Dr Bill
F-38	Amplifier-Attitude Memory R.H. 464321	12	202	2.4	X								No:
r-39	Rack-AFCS 464873		202	3.8	X								
04-7	Amplifier-Control Surface R.H. 464121		202	2.4	X							5	NE
p-41	Computer-Flight Director 60-6309"		203	2.0	X							No	1 7
F-42	Converter-Signal Data 464520	CONTRACTOR OF STREET	205	3.9	X	-						4 8	300
F-43	Comverter - Signal Data 464620		205	3.9	X							- P	615-8-NZ
F-kk	Amplifier - Aero. R.H. 464021	6 8	206	1.2	X							958	0
F-45	Amplifier - Roll and Pitch L.H. 464109	8	206	1.6	X							10	

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AGE 14 01	F 22 PAGES ATRPLANE MODEL F-106A	SERIAL NUMBER			130									
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F & 3					-	1	2			4	5	6	7	8
COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION	WEIGHT	ARM	MOMENT	DEL IVERY EQUIPMENT	YE TRY	NE NE	NE NE	Y HY	TRY	TRY TRY	NE TRY	ME	NE
AND	(Grouped by Compartment)			1000	710	EN EN	PLA	PLANE	EN	3 3	EN EN	PLA	PLANE	AT RPL AND
JAMP TEM					30	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	7 0	10	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	
CO T-	"ARDC EQUIPMENT OR LOCATION CHANGE DUE TO					IN AIRPLANE	2	IN AIR	HAR	CHART C ENTRY	IN AIRPLANE	IN AIRPLANE	N - N	IN AIR
	ARDC INSTL.		-		-	0	1		0	0	0	0	-	
-	COMPARIMENT "F" LOWER AFT ELECTRONICS STA. 163 - 217 (Cont'd.)		+	-	-		1	-		++	-		+	++
	SIN. 103 - STI (COME. G.)		+	+	-		++	+		11		1	1	1
46	Test - Stable Element L.H. 464396	8	206	1.6	X									
1.27	Amplifier - Auto Attack R.H. 464621	12	206	2.5	0									
118	Dehydrator 463097	4	212	0.8	X									
49	Gyro-J- Compass L. H. 60-1485	8	212	1.7	0									
-90	Rate Switch - J-4 Compass	2	212	0.4	0		11		1	-	-	1	11	11
-51	Dehydrator (or Item F-1) 463097 Transmitter - Rate Turn Gyro 60-6311*	4	212	0.8	X	1	++	-	11	-		-	++	11
-52	Transmitter - Rate Turn Gyro 60-6311*	1	212	0.8	X	++	++	-	1		-	++	11,	+
-53	Gyro - Roll & Pitch Rate (or Item F-23) 464127	4	212	0.8	0	+	++	-	-		-	-	+	+
-54	Mach Trunsmitter	2	213	0.9	0	1	+	-		-			+	
-55	Transfermer - Power - Flight	-	GUY	0.4	1	1			++	+		1	+	
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GE 150	F 22 AGES ATRPLANE MODEL F-106A	SERIAL NUMBER			DELIVE								
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ENT	ITEMS AND LOCATION			MOMENT	- X X	1	2	1 1	1 4	5	6	1 2	8
COMP ARTMENT AND I TEM NUMBER	(Grouped by Compartment)	WEIGHT	ARM	1000	DELIVERY	IN AIRPLANE	- B						
	COMPARTMENT "G" FISELAGE FUEL TANK												
	COMPARIMENT "G" FUSELAGE FUEL TANK SFA. 217 - 253						1	1		11			H
		-	-				+		-	++	++	1	H
-													
			-			H	+		+		+	-	+
	COMPARTMENT "H" FMD. ARMAMENT BAY										11	11	
	STA. 217 - 316	-	-		-	+	+	-		++	++	++	+
1-1	Missile Displacing Gear (Retracted)	104	(254.8)	26.5	X	1						1	
-2	Relay Control Box - Armment Doors	4	260 268	26.5	X								
-3	Missile Launchers (2) 404054	45		11.3	X	11					1	11	6
-h	Displacing Cylinder - Armmont Cour	30	279	0.4	X	-		+		-	++	Da	SE.
		-			-	1		+		+	1	Date:	del
-													. 6
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	CHART A - BASIC WEIGHT CHECK L	IST			ERY DATE								
AGE 1601	F22 PAGES AIRPLANE MODEL F-106A	SERIAL NUMBER			DELIV								
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AND NUMBER					125	1	2	3	4	5	6	17	8
TME	ITEMS AND LOCATION	WEIGHT	ARM	MOMENT	DEL IVERY EQUIPMENT	FLANE	NE	NE	N. S. C.	3	PLANE	PLANE	3
AND	(Grouped by Compartment)			1000	110	PLA EN	PLA	PLA	PLA	PLA	F. F. P.	EN C	AI RPL AN
COMPARTMENT AND I TEM NUMBER					EO	IN AIRPLANE		AIR					
00 =	*ARDC EQUIPMENT OR LOCATION CHANGE DUE TO					Z   4 7	A NI	Z	IN AL	2	IN A CHART	CHART	Z
	ARDC INSTL.		-		1	0	1		3 10	1		10	++
	COMPARIMENT "J" AIR CONDITIONING AND DUCT AREA		-		-	-	11	+	++	++	++	++	++
	STA. 253 - 472	-	-	-	-	1	11	1	+	++	-	1	1
		-	050	1.6	X	11	+	+			1	11	1
J-1	Intervalemeter - Missile Refrigeration Unit 8-02459	6	259	24.8	X	1		11	1	++			1
J-2	The same of the sa	2	295 304	0.6	X	1	11	1	1	1		11	1
J-3 J-4	Redome Anti-Ising Tank and Filter Anti-Ising Fluid - 2 Cals.	19	304	5.8	X	1				1		11	1
J-5	Air Bottle - Vari-Ramp Emergency	7	320	1.3	X							101	
3-6	Air Bottle - Hi Press. Page. System (2)	94	343	32.2	X			1					
3-7	Air - Hi. Press. 5100 Cu. In.	43	343	14.7	X								
J-8	Relay-Power Transfer (or Item F-25) 464162 *	95	305	9.0	X								
J-9	Pitch and Yew Amplifier (or Item F-30)	25	396	7.9	X								
J-10	Oil Cooler	9	395 396 467	9.9 7.9 4.2	X								
J-11	Oil Cooler	10	467	4.7	X								
J-12	Ice Detector and Interpreter	3	469	1.4	X								
-												De	Re
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						R	ECORD	OF	CHECK	ING C	Enter	dat	e)
	CHART A - BASIC WEIGHT CHECK L	IST											
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707	AIRPLANE MODEL - 3064	SERIAL NUMBER		-	7130							1	1
AGE II	OF 22 PAGES T-106A				0			1_	1	ECK	1		1
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COMP ARTMENT AND AND TEM NUMBER	ITEMS AND LOCATION			MOMENT	EN T	w 12	Tw Z	1.1	N W	1 2	W Z	- 2	1
AND	(Grouped by Compartment)	WEIGHT	ARM	1.000	DELIVERY	AIRPLANE	AIRPLANE	1 1	PLANE	LAN	PLANE	AIRPLANE	AIRPLANE
A A M				1	DEL	I B	10	IRP	C RP	IRP	1 80	1 4	I RP
CON	*ARDC EQUIPMENT OR LOCATION CHANGE DUE TO					IN A	IN A	IN AIRPLANE	IN AIRPLANE	IN ATRPLANE	IN AIRPLANE	Z	N N
	ARDC INSTI.					15	I	-	5 3	1 8	3		5
	COMPARITURET "K" AFT ARMAMENT BAY					1	1	1		1	1	-	
	9TA. 316 - 412						11		-	1	1	1	1
			1			-	1	1	1	++	1	++	
K-1	Missile Displacing Gear - L.H. (Retracted		(341.2)	11.6	X		1	11	+	++	+	++	-
K-2	Missile Displacing Gear - R.H. (Retracted	34	(341.2)	11.6	X	-	++	1	++	+	-		+
K-3	Ejection Mechanism-MB/1 Titamium & Beam(or K-4)	55 59 42	357	19.6	X	++	++	+	++	++	+	-	-
K-A	Ejection Mechanism - MB/1 Steel & Beam (or K-3)	59	357	21.1	0	+	++	11	++	++	++	+	+
K-5	Missile Launchers (2) 464054	42	366	15.4	X	1	++	1	+	++	++	++	-
K-6	Displacing Cylinder - Armanent Gear L.H.	20	380	7.6		1	++		1	++	++	+	1
K-7	Displacing Cylinder - Armament Gear R.H.	20	380	7.6	X	11	++			1	++	++	-
K-8	Relay - AC Power Discomnect Panel - AC Generator Control 42-6103	3	401	2.0	X	++	11		-	1	++	1	+
K-9	Panel - AC Generator Control 42-6103	7	401	2.0	1								1
				-						-		Da	Henor's Model
	COMPARIMENT "L" HYDRAULIC AND R.A.T. AREA	-	-	-	-	++	++	-		+	+	ct	de
-	SEA. 412 - 431		-	-	-	1	+			1	-	-	17
9 9	Accumulator (2)	9	414	3.7	X	+	1					1	No
L-1		13	418	5.4	X	1	1			1	1	5	
1-2	Rem Air Turbine	ii.	420	6.6	X						1		चिष
L-3	Reservoir - Hydraulic Fluid - L.H.	12	420	5.0	X	1		1		1		0	F-106A
Per	Reserveir - Hydraulie Fluid - R.H.	13	421	5.5	X	1	1	1				-	SIX
I-5 I-6	Fluid - L.H. Reservoir 440 Cu. In.	12	421		X	1		1				10	TE.
	Fluid - R.H. Reservoir 400 Cu. In.		129	0.9	X	1	1					959	
1-7	Accelerometer (or Item 14-2) 464061*	2	1	0.9		1				1		-	
		1					1						

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	CHART A - BASIC V	VEIGHT CHECK	LISI			16		1						
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AGE 18	OF PAGES ATRPLANE MODEL F-106A		SERIAL NUMBER			730							1	
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AND	(Grouped by Compartment)		WEIGHT	ARM	1.000	3×1	3 L	I RPL ANE	3	3 2	N T X	1 1 1 Z	PLANE	LAN
COMP ARTMENT AND LITEM NUMBER			1			DELIVERY	AIRPLANE C ENTRY	AI RPL ANE	180	1 80	IRP	RP	IRP	
00				1	1		IN AIRPLANE	A N	IN AIRPLANE	IN AIR				
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	COMPAREMENT "M" MAIN WHEEL WELL													
	STA. 431 - 472													
	-1 6-8-2.			-				1	11		11	11		1
M-1	Fitch "G" Limiter	10.7	4	431	1.7	X		11	11					1
M-2	Accelerometer (Or Item 1-7)	464061	2	433	0.9	0		11	11	++		1	1	11
16-3	Accelerometer	464161	3	433	2.6	0		11	1	1	11	1	11	11
16-4	Gyro Transmitter	10-1	6			X		++	11	++	1	1	1	1
14-5	Test Panel	464596		hho	1.8	X		++	+	++	-	+-	+	11
M-6	Generator - AC Emergency		18	164	8.4	X		++	++	1	11	-	++	+
M-7 M-8	Hydraulic Drive Unit	10 (222	10	464	4.6	X		11	++	-	++	+	11	1
M-9	DC Regulator and Control	42-6102	6	465	2.8	X		+	++		1	++	1	
17-2	Voltage Regulator	42-0102	21	465	9.8	1		++	++	-	++	++	++	
			-		1	-		++	-	+	1		++	
			-	-	-			1		+	++	++	++	
				1				11	1	+	1	1	0 3	10
	COMPARIMENT "H" FWD. ENGINE AREA							1		1	++	11	Date:	100
	STA. 172 - 593							1		1	1		6	Report
	The state of the s										11			
[-]	Loader - Elevator Feel		11	475	5.2	X							Ġ	0:
1-2	011 - C.S.D. 3.7 Cal. @ 7.7 Ibs. pe	or Gal.			13.4	X								
1-3	Reactor - 400H (2)	464035	28 26	480 484	12.6	X							OV	ZW-8-519
11-4	Reactor - 100MH	464135	11	484	5.3	X							1. 3	200
N-5	Generator - 100 Aup.	42-6110	38	487	18.5	X							19	51
11-6	Alternator - Oil Cooled	42-6101	48	487	23.4								59	10
11-7	C.S.D. Remote Gear Box	48-558	105	492	51.7	X		11		1				

								FOR U	SEIN	TOI	1B-40 A	P AN 01	-1B-40	100
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	CHART A - BASIC WEI	GHT CHECK L	IST			DATE								
GE 190	OF22 PAGES AIRPLANE MODEL F-106A		SERIAL NUMBER			DELIVERY								
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AND NUMBER	ITEMS AND LOCATION		WEIGHT	ARM	MOMENT	DEL IVERY EQUIPMENT	E Y	E VE	3 1	E E	N A	VE Y	NE NE	I W
AND	(Grouped by Compartment)		WC 1 0011		1000	LI V	AIRPLANE		PLA	PLA	PLANE	PLA	AIRPLANE	PL ANE
COMP ARTMENT AND ITEM NUMBER						90	AIR	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	1 00 10	IN ATTREAME	AIR	IN AIRPLANE
55 -						1	IN A	IN AIR	z :	IN AIRPLANE	IN AL	IN AIRPLANE	IN AL	N A
	COMPARIMENT "N" FWD. ENGINE AREA			+		-	1	11	1	+	1	1	1	11
	STA. 472 - 593 (Cont'd.)			-				1	1	1	1	1	1	1
11-8	Alternator - Oil Cooled	42-6101	48	505	24.2	0			11		11	1	11	11
N-9	Generator -AC/DC	464089	69	505	34.8	X	11	11	11		11	11	11	1
N-10	Generator - DC (or Item H-11)	464189 464689	30	505	15.2	0	1	++	1	-	1+	1	1	1
W-11	Generator - DC (or Item Mal0)	464689	31	505	15.7	X	++	+	+		++	1	++	+
N-12	Drive Shaft and Cover - C.S.D.	204 33	ha	510	24.5	X	+	++	++		++	++	1	1
N-13 H-14	Starter - Combustion Starter - Prommtic	MA-11	48 24	510	12.2	0	1	++	11	1	11		1	+
W-15			THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	516	29.4	X	11	11			1	1	11	
N-16	Hydraulie Pump (2) Gear Box - Engine Hounted	48-571	57	520	8.3	X								1
N-17	Fuel Flow Equalizor	100	11	551	6.1	X								
N-18	Engine and Afterburner	J-75-P-17		%2 %2	3268.6	X								
N-19	Engine and Afterburner	J-75-P-9	5802	562	3260.7	0							11	
-						-	1	11			11	11	100	S D
	COMPARIMENT "P" TAIL COME AREA			-	-	-	11	11			+	++	te	Repor
	574. 653 - 711.			-	-	-	+	-	-			+	1	1
			99	705	10.0	X	1	+				1	11	No
Pel	Dregue Chute		22	705	15.5	-	1	1	-			1	5	
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						R	ECOR	O OF	CHECK	ING (	Enter	date	)
	CHART A - BASIC WEIGHT CHECK L	IST			ERY DATE								
AGE 200	F 22 PAGES ATRPLANE MODEL F-106A	SERIAL NUMBER	+		DELIV								
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AND NUMBER	Table will recall on		1		1 2	1	2	3	4	5	6	7	8
AND NUM	(Grouped by Compartment)	WEIGHT	ARM	MOMENT	VER	ENTRY	PLANE	N. W.	TRY TRY	PLANE	PLANE	PLANE	PL ANE
COMPARTMENT AND ITEM NUMBER				1000	DELIVERY	IN AIRPLANE	- C	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	2 0	IN AIRPLANE	4
	COMPARTMENT "Q" VERTICAL FIR												
							1			11	11		
Q-1	Amplifier - Synch. AM-1245A/APX-27 464333	7	588	4.1	X		11	+	+	1	-	-	
6-5	Rack, Elect. Equip Fud. AFK-27 464973  IFF XP - Tuned Cavity CAV FR-93 464332  IFF XP - Duplemer - CU-460/AFX-27 464232  IFF XP - SW. Waveguide 464232	3	588	1.2	X		++	+	++	-	-		
Q-3	IFF XP - Tuned Cavity CAV FR-93 464332 IFF XP - Duplemer - CU-460/APX-27 464232	1	622	2.5	X	-	+	1	1	11	1		H
Q-5	IFF XP - SW. Waveguide 464252 Isolator, Radio Freq. Reflex. APX 464079 Amplifier - Oscillator Cont. AM-1243 APX 464108 Amplifier, Freq. Conv. APX-27 464666	3	625	1.9	X		1		1	11	1		
9-6	Isolator, Radio Fred. Reflex. AFK 464079	2	631	1.3	X								
9-7	Amplifier - Oscillator Cont. AM-1243 APR 464108	5	633	3.2	X								
Q-7 Q-8	Amplifier, Freq. Conv. AFX-27 464666	6	637	3.8	X								
9-9	Rack. Elect. Equip Art ComptRight 4042/4	2	637	3.2	X	1	1				11	11	
9-10	Transmitter, Radio T-125A/APX-27 464159	9	639	5.8	X	-	11	1		11	1	1	
1			+		-	11	-	-		++	++	1	1
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	constant used below line.	1	1	-	1					11	-	1	1

						-				-	Name and Address of the Owner, where the Owner, which the	Ente	-	-	
	CHART A - BASIC WEIGHT CHECK	K LIST			ERY DATE										
AGE 210	F 22PAGES ATRPLANE MODEL F-106A	SERIAL NUMBER			DELIV										
				1/						СН	ECK				
EN T					1.	1	2		3	4	5	6	1	7	8
AND	(Grouped by Compartment)	WEIGHT	ARM	MOMENT	VER MEN	NE	PLANE	ENTRY PI AN F	TRY	NE YEL	30	ENTRY	ENTRY PLANE	TRY	LANE
COMPARTMENT AND ITEM NUMBER	(diviped by Compartment)			1000	DELIVERY	IN AIRPLANE	IN AIRPLANE	CHART C EN	CHART C ENTRY	IN AIRPLANE	IN ATRPLANE	IN AIRPLANE	CHART C EN	CHART C ENTRY	IN AIRPLANE
	COMPARIMENT "T" - AIRPLANS EXTERIOR														1
PS 9		20	10	-	0			1	1			11	1	1	1
7-1	Antenna - Broficon	15	65	1.0	X			+			1	+	+	+	-
T-2	Antenna - Marker Beacon Antenna - ADF 464117	2	68	0.1	X	-		-	+		1	+	+	+	
T-3 T-1	Antonna - Lar. Annalar Slot - IFF	2	170	0.3	X				-	1	1	-	+		-
	Bencon Light - Retractable - Upper	1	270	1.1	X					1	11	1	+	-	1
T-5 T-6	Bencom Light - Retractable - Lar.	1	422	1.7	X						1				
T-7	Tail Hook;														
T-7 T-8	Mise. Wire, Switch, Etc.	2	495	1.0	0										
T-9	Fitting - Hook Attachment	10	520	5.2	0										
T-10	Bulkhead Revision - Sta. 520	4	520	2.1	0										
T-11	Doubler, Bolts, Etc.	2	520	1.0	0										
T-12	Spring, Hook & Shoe Assy.	92	591	30.7	0										
T-13	Fairing-Ful. of Hook (Est.)	2	622	1.2	0				1	1					
T-14	Lateh	5	631	3.2	0		-		1	1			L	Mod	2
T-15	Fairing - Aft of Hook	3	647	1.9	0	1	-		-	11	1		-	+ 6	8
		-		-	-	11	-	1	+	1				上	1
			-	-	-	1	+	-	-	1		-	1	-	-
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	and the same of th	-	1	-	-	1	-	1	-	++	-	-	F	1	H

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					1 3	F	ECOR	D OF	CH	ECKIN	IG (1	Enter	dat	0)
	CHART A - BASIC WEIGHT CHECK	LIST			ERY DATE									
GE 22 OF 22P	GES ATRPLANE MODEL F-106A	SERIAL NUMBER			DELIVER									
	PAGE IS APPLICABLE WHEN INCREASED			1/						CHE	CK			
THE NUMBER	CITY FUEL SYSTEM IS INCORPORATED)				1 2 5	1	2		3	4	5	6	7	8
AND NUM	(Grouped by Compartment)	WEIGHT	ARM	MOMENT	VER	TRY TRY	WE	N. E.	TRY	TRY	TRY	TRY	LANE	LAME
AND REMUM MET I				1000	DEL IVERY EQUIPMENT	AIRPLANE	AIRPLANE	RPL	EN	RPE	RPL	RPL	RPL	
COM					0 3	IN AIRPLANE	IN A!	IN AIRPLANE	CHART C ENTRY	CHART C ENTRY	IN AIRPLANE CHARY	IN AIRPLANE	IN AIRPLANE	IN AIR
TRAPE	ED FUEL & OIL (INCREASED CAPACITY FUEL	+	-	-	1.		+	-	0	10	10	-	1	++
SYSTE								+					H	
1. Trapp	ed 011 (011 that remains after draining												1	
fro	m tank drains - Normal Ground Attitude)	26	505	13.1	X									
		-	(ene)	1/ 5			11			1		11		1
2. Drain	able - Umusable Fuel JP-4	92	(505)	46.5	X		+	-	+	+	-	1	++	1
3. Undra	inable-Unusable Fuel JP-4 (Fuel that re-	+		-	-		1	+	+		-	1	++	+
	ns after draining from eight wing drains,					11	1						1	1
tre	nafer line drains and two Fuselage drains-								П				1	11
Nor	mal Ground Attitude) Access to Tank "F"													
fus	plage drain at Sta. 250 and aft fuselage													
	in thru engine access door epproximately	1	11					1	1				1	
Sta	. 538.	151	(435)	65.6	X	1		+				11	11	13
m-A-2	Unusable Fuel-JP-4 MIL-F-9624B (1) at	-	-		-		+	+	+1		-	11	1	8
	rage Cruise Attitude	243	(461)	112.1	X	+			1		+	++	D	1
Ave	die Ctarpo verreme		1.041	The state of the		11		-				1	#	10
													11	
												1	5	1 19
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		-	-										Mox	7 60
		-	-	-	-	1	-	-	-			11	-	10
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	nt used below line.	1	1		1	11			11		1	11	10	1

						B	-	-	-	-	_		18-40 date	-
	CHART A - BASIC WEIGHT CHECK L	IST			ERY DATE									
GE 2250	F 22 PAGES AIRPLANE MODEL F-106A	SERIAL NUMBER			DELIV									
	(THIS PACE IS APPLICABLE PRIOR TO INCORPORATION			1/						CHEC	K			
ER ER	OF INCREASED FUEL SYSTEM ONLY)				. +	1	2	3		4	5	6	7	8
AND	(Grouped by Compartment)	WEIGHT	ARM	MOMENT	MEN	NE TRY	NE	NE	TRY	TRY	TRY	TRY	LANE	FNTRY
COMPARTMENT AND ITEM NUMBER	(Grouped by Compartment)			1000	DELIVERY	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	CHART C EN	CHART C ENTRY	CHART C ENTRY	IN AIRPLANE	IN AIRPLANE	I R
	TRAPPED FUEL AND OIL (PRIOR TO INCORPORATION						1							
	OF INCREASED CAPACITY FUEL SYSTEM, ECP 4144 -													
	NO FUEL IN TANK "T".)													
1.	Trapped Oil (Oil that remains after draining													
	from tank drains - Normal Ground Attitude)	26	505	13.1			+	+		+	+		H	1
2.	Drainable - Unusable Fuel JP-4	159	(445)	70.8									H	H
3.	Undrainable-Unusable Fuel JP-4 (Fuel that re-		1		1		1	+		-			-	
2.	mains after draining from eight wing drains,									+			1	11
	transfer line drains and two Fuselage drains-													
	Normal Ground Attitude) Access to Tank "F"													
	fuselage drain at Sta. 250 and aft fuselage													
	drain thru engine access door approximately	2000	11.075				1			1	-		03	i D
	Sta. 538.	173	(436)	75.4	-	11	+	-	-	+	+	-	to K	THE
	Total Umusable Fuel-JP-4 MIL-F-5624B (1) at		-		1	-	-	-	-	+	+	++		1
-	Average Cruise Attitude	332	(440)	146.2	1	H		+		+	+		15	1
-	Weigh of are Very days	4.5	1				1	-		+	+		2	1
-								1	H	1	-	+	OV.	121
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	constant used below line.		1	And the second							1			4

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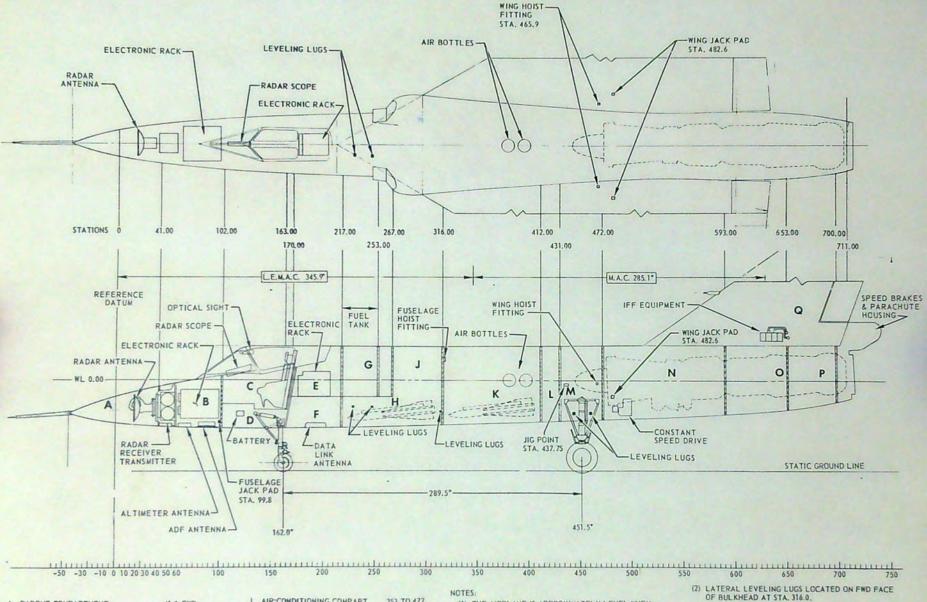
INDEX

MOMENT 1000

10018

Page:
Report No:
Model:
Date: 128 ZW-8-519 F-106A 15 Nov. 1959

AN 01-18-40



A.	RADOME COMPARTMENT	41 & FWD
B.	FWD ELECTRONICS COMPARTMENT	41 TO 102
C	COCKPIT	102 TO 217
D.	NOSE WHEEL WELL	102 TO 163
E.	AFT ELECTRONIC COMPART. UPPER	170 TO 217
F.	AFT ELECTRONIC COMPART. LOWER	163 TO 217
G.	FUSELAGE FUEL TANK	217 TO 253
H.	FWD ARMAMENT BAY	217 TO 316

AIR-CONDITIONING COMPART. 253 TO 472 316 TO 412 AFT ARMAMENT BAY HYDRAULIC COMPARTMENT 412 TO 431 431 TO 472 MAIN WHEEL WELL ENGINE ACCESS COMPARTMENT 472 TO 593 593 TO 700 AFTERBURNER COMPARTMENT P. TAILCONE Q. VERTICAL FIN 653 TO 711

- (1) THE AIRPLANE IS APPROXIMATELY LEVEL WHEN THE STRUTS ARE IN STATIC POSITION (REFER TO STRUT NAMEPLATE FOR STATIC LEVELING IN-STRUCTIONS). EXACT LEVEL MAY BE OBTAINED BY COMPRESSING OR EXTENDING THE NOSE STRUT. STRUTS ARE NORMAL TO CENTERLINE OF AIRPLANE, THEREFORE THE STRUT EXTENSION DOES NOT VARY THE HORIZONTAL DISTANCE BETWEEN WHEELS.
- (3) LONGITUDINAL LEVELING LUGS LOCATED LEFT HAND SIDE STA 227 AND 248, OR STA 442 AND 461.
- (4) MEASUREMENTS MAY BE TAKEN TO LOCATE THE RE-ACTIONS DURING WEIGHINGS BY DROPPING A PLUMB BOB FROM JIG POINT FITTING AT STATION 437.75 AND MEASURING TO CENTERLINE OF NOSE AND MAIN LANDING GEAR WHEELS.

Model:

Date: 15 Nov. 1959chart E
F-1064
SHEET 1 OF 16
DATE - 27 MAY 19 Report No: Model:

\*C.G. LIMITS SHOWN ARE FOR FLIGHT AND LANDING ONLY FOR TAKE-OFF C.G. LIMITS SEE SHEET 7 & 8

	-	-		C.G. LIMI	TS* SUBSO	NIC SPEE	D TO 30.8	% MAC								
									MOMEN	T/1000						
GROSS WEIGHT (LBS)	23.5% MAC ARM = 412.9	24.0% MAC ARM = 414.3		25.0% MAC ARM = 417.2				27.0% MAC ARM 422.9			28,5% MAC ARM=427,2	29.0% MAC ARM=428.6	29.5% MAC ARM-430		30,5% MAC ARM = 432,9	
21000	8671	8700														
100	8712	8742														
200	8753	8783														
300	8795	8825														
400	8836	8866	8896													
21500	8877	8907	8938													
600	8919	8949	8979					-								
700	8960	8990	9021													
800	9001	9032	9062	9095												
900	9043	9073	9104	9137												
22000	9084	9115	9145	9178												
100	9125	9156	9187	9220							12 - 17					
200	9166	9197	9229	9262							-					
300	9208	9239	9270	9304	9335											
400	9249	9280	9312	9345	9377											
22500	9290	9322	9353	9387	9419											
600	9332	9363	9395	9429	9460											
700	9373	9405	9436	9470	9502	9534										
800	9414	9446	9478	9512	9544	9576										
900	9455	9487	9520	9554	9586	9618		1-61		-119					13.00	-
23000	9497	9529	9561	9596	9628	9660										
100	9538	9570	9603	9637	9670	9702	9737									
200	9579	9612	9644	9679	9712	9744	9779					1				
300	9621	9653	9686	9721	9753	9786	9821					1				
400	9662	9695	9727	9762	9795	9828	9863	9896							-	
23500	9703	9736	9769	9804	9837	9870	9905	9938								
600	9744	9777	9811	9846	9879	9912	9947	9980						1		
700	9786	9819	9852	9888	9921	9954	9990	10023								
800	9827	9860	9894	9929	9963	9996	10032	10098	10098				1		1	
900	9868	9902	9935	9971	10005	10038	10074	10107	10141	1-16		1	-			
24000	9910	9943	9977	10013	10046	10080	10116	10150	10183							
100	9951	9985	10018	10055	10088	10122	10158	10192	10226	1						
200	9992	10026	10060	10096	10130	10164	10200	10234	10268				1		1	
300	10033	10067	10102	10138	10172	10206	10242	10276	10310	10345						
400	10075	10109	10143	10180	10214	10248	10285	10319	10353	10387		1				1
24500	10116	10150	10185	10221	10256	10290	10327	10361	10395	10430			1		1	
600	10157	10192	10226	10263	10298	10332	10369	10403	10438	10472	10509		1	1	1	1
700	10199	10233	10268	10305	10339	10374	10411	10446	10480	10515	10552	1			1	
800	10240	10275	10309	10347	10381	10416	10453	10488	10523	10557	10595			1	1	
900	10281	10316	10351	10388	10423	10458	10495	10530	10565	10600	10637		1		1	

Date:

Page: 130
Report No: ZW-8
Model: F-106A
15 Nov. 1959

CHART E F-106A SHEET 2 OF 16 DATE - SEE SHEET 1

## \*C.G. LIMITS SHOWN ARE FOR FLIGHT AND LANDING ONLY -FOR TAKEOFF C.G. LIMITS SEE SHEET 7 & 8

	_							-	C I INITE	SUPERSO	NIC SPEED	TO 25% I	MC-								
						IMITS* SI	BSONIC SP				MIC SPEED	10 35% N	1							1	
					C.O. L		MOMENT/10	-	7.078 MAC						MC	DMENT/10	00				
ROSS EIGHT (LBS)	The second secon	The state of the s	24.5% MAC ARM=415.7	25% MAC ARM=417.2	25.5% MAC ARM-418.6	26% MAC ARM-420.0	26.5% MAC ARM-421.5	27% MAC ARM=422.9	27.5% MAC ARM-424.3	28% MAC ARM=425.7	28.5% MAC ARM-427.2	29% MAC ARM-428.6	29.5% MAC ARM=430.0	30% MAC ARM-431.4	30.3% MAC ARM=432.3		30.8% MAC ARM=433.7		32% MAC ARM=437.1	33% MAC ARM = 440	34% MAC ARM=442.
5000	10323	10358	10393	10430	10465	10500	10538	10573	10608	10643	10680	10715									
100	10364	10399	10434	10472	10507	10542	10580	10615	10650	10685	10723	10758		16							
200	10405	10440	10476	10513	10549	10584	10622	10657	10692	10728	10765	10801		1							
300	10446	10482	10517	10555	10591	10626	10664	10699	10735	10770	10808	10844									
400	10488	10523	10559	10597	10632	10668	10706	10742	10777	10813	10851	10886	10922								
5500	10529	10565	10600	10639	10674	10710	10748	10784	10820	10855	10894	10929	10965						0		
600	10570	10606	10642	10680	10716	10752	10790	10826	10862	10898	10936	10972	11008		4	/ 3					
700	10612	10648	10683	10722	10758	10794	10833	10869	10905	10940	10979	11015	11051								
800	10653	10689	10725	10764	10800	10836	10875	10911	10947	10983	11022	11058	11094	11130					1		
900	10694	10730	10767	10805	10842	10878	10917	10953	10989	11026	11064	11101	11137	11173	Loans	8.0					
000	10735	10772	10808	10847	10684	10920	10959	10995	11032	11068	11107	11144	11180	11216	11240	11255	11276	11292	11365		
100	10777	10813	10850	10889	10925	10962	11001	11038	11074	11111	11150	11186	11223	11260	11283	11299	11320	11335	11408		
200	10818	10855	10891	10931	10967	11004	11043	11080	11117	11153	11193	11229	11266	11303	11326	11342	11363	11379	11452		
300	10859	10896	10933	10972	11009	11046	11085	11122	11159	11196	11235	11272	11309	11346	11369	11385	11406	11422	11496		
400	10901	10938	10974	11014	11051	11088	11128	11165	11202	11238	11278	11315	11352	11389	11413	11429	11450	11466	11539		
					11093	11130	11170	11207	11244	11281	11321	11358	11395	11432	11456	11472	11493	11509	11583		
500	10942	10979	11016	11056	11135	11172	11212	11249	11286	11324	11364	11401	11438	11475	11499	11515	11536	11552	11627	3	
600	10983	11020	11058	11139	11177	11214	11254	11291	11329	11366	11406	11444	11481	11518	11542	11558	11580	11596	11671		
700	11024	11062	11099		11218	11256	11296	11334	11371	11409	11449	11486	11524	11562	11586	11602	11623	11639	11714		
800	11066	11103	11141	11181	11260	11298	11338	11376	11414	11451	11492	11529	11567	11605	11629	11645	11667	11683	11758		
900	11107	11145	11182	11223					A Second		S. Carre	11570	11/10	11640	11672	11688	11710	11726	11802		
000	11148	11186	11224	11264	11302	11340	11381	11418	11456	11494	11534	11572	11610	11648	11715	11732	11753	11770	11845	11924	1
100	11190	11228	11265	11306	11344	11382	11423	11461	-11499	11536	11620	11615	11696	11734	11759	11775	11797	11813	11889	11968	
500	11231	11269	11307	11348	11386	11424	11465	11503	11541			11701	11739	11777	11802	11818	11840	11856	11933	12012	
300	11272	11310	11349	11390	11428	11466	11507	11545	11583	11622	11663	11744	11782	11820	11845	11861	11883	11900	11977	12056	1
00	11313	11352	11390	11431	11470	11508	11549	11587	11626	11664		The state of									
500	11355	11393	11432	11473	11512	11550	11591	11630	11668	11707	11748	11787	11825	11864	11888	11905	11927	11943	12020	12100	
500	11396	11435	11473	11515	11553	11592	11633	11672	11711	11749	11791	11829	11868			11948	12013	1	130000	1 200	
700	11437	11476	11515	11556	11595	11634	11676	11714	11753	11792	11833	11872	11911	11950	11975	11991	12013	12030	12108	12188	
300	11479	11518	11556	11598	11637	11676	11718	11757	11796	11834	11876	11915	11954		10000000	12035	2000	The state of			
200	11520	11559	11598	11640	11679	11718	11760	11799	11838	11877	11919	11958	11997	12036	12061	12078	12100	12117	12195	12276	
00	11561	11600	11640	11682	11721	11760	11802	11841	11880	11920	11962	12001	12040	12079	12104	12121	12144	12160	12239	12320	
00	11602	11642	11681	11723	11763	11802	11844	11883	11923	11962	12004	12044	12083	12122	12148	12164	12187	12204	12283	12364	1244
00	11644	11683	11723	11765	11805	11844	11886	11926	11965	12005	12047	12087	12126	12165	12191	12208	12230	12247	12326	12408	1248
300	11685	11725	11764	11807	11846	11886	11928	11968	12008	12047	12090	12129	12169	12209	12234	12251	12273	12291	12370	12452	1253
100	11726	11766	11806	11848	11888	11928	11971	12010	12050	12090	12132	12172	12212	12252	12277	12294	12317	12334	12414	12496	1257
				11890	11930	11970	12013	12053	12093	12132	12175	12215	12255	12295	12321	12338	12360	12378	12457	12540	1262
500	11768	11808	11847		11972	12012	12055	12095	12135	12175	12218	12258	12298	12338	12364	12381	12404	12421	12501	12584	1266
500	11809	11849	11889	11932	12014	12054	12097	12137	12177	12218	12261	12301	12341	12381	12407	12424	12447	12464	12545	12628	1270
700	11850	11890	11931	12015	12014	12096	12139	12180	12220	12260	12303	12344	12384	12424	12450	12468	12491	12508	12588	12672	1275
800	11892	11932	11972		12098	12138	12181	12222	12262	12303	12346	12387	12427	12467	12493	12511	12534	12551	12632	12716	1279
900	11933	11973	12014	12057	12070	12150	12101				12040				1.2475		1	16001	12002	12710	12/1

Page: Report Model: Date: t No: ZW-8-519 F-106A F-106A SHEET 3 OF 16 DATE - SEE SHEET

\*C.G. LIMITS SHOWN ARE FOR FLIGHT AND LANDING ONLY -FOR TAKE-OFF C.G. LIMITS SEE SHEET 7 & 8

	-									- CG III	UTS* SUIDE	RSONIC SP	EED TO 3	5% MAC								1
	-							G. LIMITS	* SUBSONI				EED 10 3.	JA MAC		-						
									MOMEN	NT/1000					-	715		M	OMENT/10	00		
ROSS IGHT LBS)		24.0% MAC ARM - 414.3	24.5% MAC ARM=415.7	25% MAC ARM=417.2	25.5% MAC ARM=418.6	26% MAC ARM=420.0	26.5% MAC ARM=421.5	27% MAC ARM=422.9	27.5% MAC ARM=424.3	28% MAC ARM=425.7	28.5% MAC ARM=427.2	29% MAC ARM=428.6	29.5% MAC ARM=430.0	30% MAC ARM=431.4	30.3% MAC ARM=432.3	30.5% MAC ARM=432.9	30.8% MAC ARM=433.7	31% MAC ARM=434,3	32% MAC ARM=437.1	33% MAC ARM=440	34% MAC ARM=442.8	35% M ARM=4
9000	11974	12015	12055	12099	12139	12180	12224	12264	12305	12345	12389	12429	12470	12511	12537	12554	12577	12595	12676	12760	12841	
100	12015	12056	12097	12141	12181	12222	12266	12306	12347	12388	12432	12472	12513	12554	12580	12597	12621	12638	12720	12804	12885	
200	12057	12098	12138	12182	12223	12264	12308	12349	12390	12430	12474	12515	12556	12597	12623	12641	12664	12682	12763	12848	12930	130
300	12098	12139	12180	12224	12265	12306	12350	12391	12432	12473	12517	12558	12599	12640	12666	12684	12707	12725	12807	12892	12974	130
400	12139	12180	12222	12266	12307	12348	12392	12433	12474	12516	12560	12601	12642	12683	12710	12727	12751	12768	12851	12936	13018	131
500	12181	12222	12263	12307	12349	12390	12434	12476	12517	12558	12602	12644	12685	12726	12753	12771	12794	12812	12894	12980	13063	131
600	12222	12263	12305	12349	12391	12432	12476	12518	12559	12601	12645	12687	12728	12769	12796	12814	12838	12855	12938	13024	13107	13
700	12263	12305	12346	12391	12432	12474	12519	12560	12602	12643	12688	12729	12771	12813	12839	12857	12881	12899	12982	13068	13151	139
800	12304	12346	12388	12433	12474	12516	12561	12602	12644	12686	12731	12772	12814	12856	12883	12900	12924	12942	13026	13112	13195	13:
900	12346	12388	12429	12474	12516	12558	12603	12645	12687	12728	12773	12815	12857	12899	12926	12944	12968	12986	13069	13156	13240	13
000	12387	12429	12471	12516	12558	12600	12645	12687	12729	12771	12816	12858	12900	12942	12969	12987	13011	13029	13113	13200	13284	13
100	12507	12470	12513	12558	12550	12642	12687	12729	12771	12814	12859	12901	12943	12985	13012	13030	13054	13072	13157	13244	13328	13
200		12512	12554	12599	12642	12684	12729	12772	12814	12856	12901	12944	12986	13028	13055	13074	13098	13116	13200	13288	13373	13
300		12553	12596	12641	12684	12726	12771	12814	12856	12899	12944	12987	13029	13071	13099	13117	13141	13159	13244	13332	13417	13
00		12595	12637	12683	12725	12768	12814	12856	12899	12941	12987	13029	13072	13115	13142	13160	13184	13203	13288	13376	13461	13
												13072	13115	13158	13185	13203	13228	13246	13332	13420	13505	13
00		12636	12679	12725	12767	12810	12856	12898 12941	12941	12984 13026	13030	13115	13115	13201	13228	13247	13228	13246	13375	13464	13550	13
00			12720	12766	12809	12852	12898 12940	12983	13026	13069	13115	13158	13201	13244	13272	13290	13315	13333	13419	13508	13594	13
00			12762	12808	12851	12894	12940	13025	13068	13112	13158	13201	13244	13287	13315	13333	13358	13376	13463	13552	13638	13
00			12804	12850	12893 12935	12936 12978	13024	13068	13111	13154	13200	13244	13287	13330	13358	13377	13401	13420	13506	13596	13683	13
00			12845	12891																		1
00			12887	12933	12977	13020	13067	13110	13153	13197	13243	13287	13330	13373	13401	13420	13445	13463	13550	13640	13727	1
00			12928	12975	13018	13062	13109	13152	13196	13239	13286	13329	13373	13417	13445	13463	13488	13507	13594	13684	13771	1
00			12970	13017	13060	13104	13151	13194	13238	13282	13329	13372	13416	13460	13488	13506	13531	13550	13638	13728	13815	1
10			13011	13058	13102	13146	13193	13237	13281	13324	13371	13415	13459	13503	13531	13550	13575	13594	13681	13772	13860	
00			13053	13100	13144	13188	13235	13279	13323	13367	13414	13458	13502	13546	13574	13593	13618	13637	13725	13816	13904	1
0			13095	13142	13186	13230	13277	13321	13365	13410	13457	13501	13545	13589	13617	13636	13662	13680	13769	13860	13948	
0		1	13136	13184	13228	13272	13319	13364	13408	13452	13500	13544	13588	13632	13661	13680	13705	13724	13812	13904	13992	
0			13178	13225	13270	13314	13362	13406	13450	13495	13542	13587	13631	13675	13704	13723	13748	13767	13856	13948	14037	
00			13219	13267	13311	13356	13404	13448	13493	13537	13585	13629	13674	13719	13747	13766	13792	13811	13900	13992	14081	
00			13261	13309	13353	13398	13446	13491	13535	13580	13628	13672	13717	13762	13790	13810	13835	13854	13943	14036	14125	1
00			13302	13350	13395	13440	13488	13533	13578	13622	13670	13715	13760	13805	13834	13853	13878	13898	13987	14080	14170	
0			13344	13392	13437	13482	13530	13575	13620	13665	13713	13758	13803	13848	13877	13896	13922	13941	14031	14124	14214	
10			13386	13434	13479	13524	13572	13617	13662	13708	13756	13801	13846	13891	13920	13939	13965	13984	14075	14168	14258	
00			13427	13476	13521	13566	13614	13660	13705	13750	13799	13844	13889	13934	13963	13983	14009	14028	14118	14212	14302	-
00			13469	13517	13563	13608	13657	13702	13747	13793	13841	13887	13932	13977	14007	14026	14052	14071	14162	14256	14347	1
00			13510	13559	13605	13650	13699	13744	13790	13835	13884	13930	13975	14021	14050	14069	14095	14115	14206	14300	14391	1
			13552	13601	13646	13692	13741	13787	13832	13878	13927	13972	14018	14064	14093	14113	14139	14158	14249	14344		
00			13593	13642	13688	13734	13783	13829	13875	13920	13969	14015	14061	14107	14136	14156	14182	14202	14249	14344	14435	
00	1			13684	13730	13776	13825	13871	13917	13963	14012	14058	14104	14150	14179	14199	14225	14245	14337	- BOSE		
00			13635		1772	13818	13867	13913	13959	14006	14054	14101	14147	14193	14223	14242	14223	14243	1	14432		
00			13677	13726	13772	13010	15007	10713	10757	14000	14034	14101	14.47	14175	17223	14242	14207	14200	14381	14476	14568	1

CONFIDENTIAL

rage: leport No: Model:

ZW-8-519 F-106A

CHART E E-106A SHEET 4 OF 16 DATE - SEE SHEET 1 27 MAY 1959

#### CENTER OF GRAVITY TABLE

\*C.G. LIMITS SHOWN ARE FOR FLIGHT AND LANDING ONLY -FOR TAKE-OFF C.G. LIMITS SEE SHEET 7 & 8

					- C.G. LIM	ITS* SUBS	ONIC SPEE			SUPERSO	NIC SPEE	O TO 35% M	мс —							
							МС	DMENT/100	00	-						N.	OMENT/10	00		
GROSS WEIGHT (LBS)	24.5% MAC ARM=415.7	25.0% MAC ARM= 417.2	25.5% MAC ARM= 418.6	26% MAC ARM=420.0	26.5% MAC ARM=421.5	27% MAC ARM-422.9	27.5% MAC ARM=424.3	28% MAC ARM = 425.7	28.5% MAC ARM=427.2	29% MAC ARM= 428.6	29.5% MAC ARM= 430.0		30.3% MAC ARM=432.3	30.5% MAC ARM=432.9	30.8% MAC ARM=433.7	31% MAC ARM=434.3	32% MAC ARM = 437.1	33% MAC ARM=440	34% MAC ARM=442.8	35% MAC ARM= 445.7
33000	13718	13768	13814	13860 -	13910	13956	14002	14048	14098	14144	14190	14236	14266	14286	14312	14332	14424	14520	14612	14708 14753
100	13760	13809	13856	13902	13952	13998	14044	14091	13140	14187	14233	14279	14309	14329	14355	14375	14468	14564	14657	14797
200		13851	13898	13944	13994	14040	14087	14133	14183	14230	14276	14322	14352	14372	14399	14419	14512	14608	14745	14842
300		13893	13939	13986	14036	14083	14129	14176	14226	14272	14319	14366	14396	14416	14442	14462	14599	14696	14790	14886
400		13934	13981	14028	14078	14125	14172	14218	14268	14315	14362	14409	14439	14459	14486	14506				
33500		13976	14023	14070	14120	14167	14214	14261	14311	14358	14405	14452	14482	14502	14529	14549	14643	14740	14834	14931
600			14065	14112	14162	14209	14256	14304	14354	14401	14448	14495	14525	14545	14572	14592	14687	14784	14922	15020
700			14107	14154	14205	14252	14299	14346	14397	14444	14491	14538	14569	14589	14616	14636	14730	14872	14967	15065
800			14149	14196	14247	14294	14341	14389	14439	14487	14534	14581	14612 14655	14632 14675	14702	14723	14818	14916	15011	15109
900			14191	14238	14289	14336	14384	14431	14482	14530	14577	14624								15154
34000			14232	14280	14331	14379	14426	14474	14525	14572	14620	14668	14698	14719	14746	14766	14861	14960 15004	15055	15198
100				14322	14373	14421	14469	14516	14568	14615	14663	14711	14741	14762 14805	14789	14853	14949	15048	15144	15243
200				14364	14415	14463	14511	14559	14610	14658	14706	14754	14785	14848	14876	14896	14993	15092	15188	15288
300				14406	14457	14505	14553	14602	14653	14701	14749	14840	14871	14892	14919	14940	15036	15136	15232	15332
400				14448	14500	14548	14596	14644	14696											
34500				14490	14542	1 4590	14638	14687	14738	14787	14835	14883	14914	14935	14963	14983	15080	15180	15277	15377
600					14584	14632	14681	14729	14781	14830	14878	14926	14958	14978	15006 15049	15027 15070	15124	15224 15268	15321	15466
700					14626	14675	14723	14772	14824	14872	14921	14970 15013	15001	15022 15065	15049	15114	15211	15312	15409	15510
800					14668	14717	14766	14814	14867 14909	14915	15007	15056	15044	15108	15136	15157	15255	15356	15454	15555
900						14/39	14808				200000		1000							1
35000						14802	14851	14900	14952	15001	15050	15099	15131	15152	15180 15223	15201	15299	15400 15444	15498	15600
100						14844	14893	14942	14995	15044	15093	15142	15174	15195	15266	15244 15287	15342	15488	15587	15689
200						14886	14935	14985	15037	15087 15130	15136 15179	15185 15228	15217	15238	15310	15331	15430	15532	15631	15733
300							14978	15027	15080 15123	15172	15222	15272	15303	15325	15353	15374	15473	15576	15675	15778
400							15020	15070	1		100									
5500							15063	15112	15166	15215	15265	15315	15347	15368	15396	15418	15517	15620	15719	15822
600							15105	15155	15208	15258	15308	15358	15390	15411	15440	15461	15561	15664	15764	15867
700							15148	15197	15251	15301	15351	15401	15433	15455 15498	15483 15526	15505	15604 15648	15708	15808	15911
800							15190	15240	15294 15336	15344 15387	15394 15437	15444	15520	15541	15570	15591	15692	15796	15897	16001
900							15232	15283								13371	13072	13770	13077	10001
36000							15275	15325	15379	15430	15480	15530	15563	15584	15613					
100							15317	15368	15422	15472	15523	15574	15606	15628	15657			1		
200							15360	15410	15465	15515	15566	15617	15649	15671	15700					
300							15402	15453	15507	15558	15609	15660	15692	15714	15743					
400							15445	15495	15550	15601	15652	15703	15736	15758	15787					
36500							15487	15538	15593	15644	15695	15746	15779	15801	15830			1		1
600							15529	15581	15636	15687	15738	15789	15822	15844	15873					
700					1		15572	15623	15678	15730	15781	15832	15865	15887	15917					
800			-				15614	15666	15721	15772	15824	15876	15909	15931	15960		1	1		1
900						. 9	15657.	15708	15764	15815	15867	15919	15952	15974	16004	1				

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Page:
Report No:
Model:
Date:

ZW-8-519 F-106A 15 Nov. 195

CHARTE F104 SHEET 5 OF 16 DATE - SEE SHEET 1

\*C.G. LIMITS SHOWN ARE FOR FLIGHT AND LANDING ONLY-FOR TAKE-OFF C.G. LIMITS SEE SHEET 7 & 8

	-		.G. LIMITS				SPEED TO	35% MAC
				MOMEN	IT/1000			
GROSS WEIGHT (LBS)	28% MAC ARM=425.7	28.5% MAC ARM-427.2	29% MAC ARM-428.6	29.5% MAC ARM=430.0	30.0% MAC ARM=431.4	30.3% MAC ARM=432.3	30.5% MAC ARM=432.9	30.8% MA( ARM= 433.
37000	15751	15806	15858	15910	15962	15995	16017	16047
100	15793	15849	15901	15953	16005	16038	16061	16090
200	15836	15892	15944	15996	16048	16082	16104	16134
300	15879	15935	15987	16039	16091	16125	16147	16177
400	15921	15977	16030	16082	16134	16168	16190	16220
37500	15964	16020	16073	16125	16178	16211	16234	16264
600	16006	16063	16115	16168	16221	16254	16277	16307
700	16049	16105	16158	16211	16264	16298	16320	16350
800	16091	16148	16201	16254	16307	16341	16364	16394
900	16134	16191	16244	16297	16350	16384	16407	16437
38000	16177	16234	16287	16340	16393	16427	16450	16481
100	16219	16276	16330	16383	16436	16471	16493	16524
200	16262	16319	16373	16426	16479	16514	16537	16567
300	16304	16362	16415	16469	16523	16557	16580	16611
400	16347	16404	16458	16512	16566	16600	16623	16654
38500	16389	16447	16501	16555	16609	16644	16667	16697
600	16432	16490	16544	16598	16652	16687	16710	16741
700	16475	16533	16587	16641	16695	16730	16753	16784
800	16517	16575	16630	16684	16738	16773	16797	16828
900	16560	16618	16673	16727	16781	16816	16840	16871
39000	16602	16661	16715	16770	16825	16860	16883	16914

OR
٠.,
G

GROSS	WEIGHT	LIMITATIONS	
HAV	HILL TA	VENEE	

LBS\*\* MAXIMUM LANDING\_\_\_\_\_LBS\*\*

\*\*SERVICE ACTIVITIES SHALL INSERT CURRENT FIGURES FROM LATEST APPLICABLE TECHNICAL ORDERS COVER-ING OPERATING INSTRUCTIONS.

	IN FLIGHT	AND LAN	DING C.G. LIM	TS TAPER	Acres Manager
GROSS	WEIGHT		LIMITS (EFFE		
		FR	OM	T	0
FROM	TO	% MAC	MOM. ARM	% MAC	MOM. ARM
21000	30000	23.5	412.9	23.5	412.9
30000	30500	23.5	412.9	24.0	414.3
30500	33119	24.0	414.3	24.5	415.7
33119	35327	24.5	415.7	27.0	422.9
35327	MAX GR WT	27.0	422.9	28.0	425.7
cnoc	MEIGHT		AFT C.G.	LIMITS	
GRUS	SWEIGHT	F	ROM		то
FROM	то	% MAC	MOM. ARM	% MAC	MOM. ARM
21000	26172	24.0	414.3	30.5	432.9
26172	29235	30.5	432.9	30.5	432.9
29235	31765	30.5	432.9	30.0	431.4
31765	33000	30.0	431.4	-30.3	432.3
33000	33300	30.3	432.3	30.8	433.7
33300	MAX GR WT	30.8	433.7	30.8	433.7

DUE TO THE USE OF INCREMENTS OF ONE HALF OF ONE PER-CENT MAC, THE CENTER OF GRAVITY TABLE DOES NOT **EXACTLY REFLECT** THE DESIGN LIMITS TAPER.

Page:
Report No:
Model:
Date:

134 ZW-8-519 F-106A 15 Nov. 1959

CHART E F-106A SHEET 6 OF 16 DATE - SEE SHEET 1



Page: 135
Report No: ZW-8-519
Model: F-106A

Date: 15 Nov. 1959

# TAKEOFF LIMITS INCREASED CAPACITY FUEL SYSTEM NORMAL FUEL CONDITION

(SEE SHEET 8 FOR OVERLOAD - NO EXTERNAL FUEL - TAKEOFF LIMITS)

CHART E MODEL F-106A SHEET 7 OF 16 DATE - SEE SHEET 1

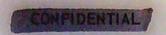
### FORWARD TAKEOFF LIMITS

WEIGHT	C.G. % MAC
31800 - 33500	25.0
33501 - 33700	25.2
33701 - 33800	25.3
33801 - 34000	25.5
34001 - 34200	25.7
34201 - 34400	25.9
34401 - 34500	26.1

### AFT TAKEOFF LIMITS

CONFIGURATION	WEI	GH	IT	C. G. % MAC
NO EXPENDABLE	31801		32300	28.2
ARMAMENT	32301	-	32800	28.1
	32801	-	33300	28.0
	33301	-	34500	27.9
1 MB-1 AND	33000		33700	26.9
4 FALCONS	33701	-	34200	26.8
	34201	-	34500	26.7
1 MB-1 AND	32900	-	33400	27.0
2 FORWARD FALCONS	33401	-	33900	26.9
	33901	-	34400	26.8
1 MB-1 AND	32900	-	33400	27.3
2 AFT FALCONS	33401	-	33900	27.2
	33901	-	34400	27.1
	32600	-	33100	27.5
1 MB-1	33101	-	33600	27.4
	33601	•	34100	27.3
	32300	-	32800	27.6
4 FALCONS	32801	•	33300	27.5
	33301	-	33800	27.4
	32100	-	32500	27.7
2 FWD FALCONS	32501	-	33000	27.6
	33001	-	33500	27.5
	32100	-	32500	28.0
2 AFT FALCONS	32501	-	33000	27.9
	33001		33500-	27.8

ENTIAL



Page: 136

Report No: ZW-8-519 Model: F-106A Date: 15 Nov. 1959 F-106A

## TAKEOFF LIMITS

("T" TANKS FULL) OVERLOAD CONDITION (NO EXTERNAL FUEL) CHART E MODEL F-106A SHEET 8 OF 16 DATE - SEE SHEET 1

(SEE SHEET 7 FOR NORMAL FUEL TAKEOFF LIMITS)

#### FORWARD TAKEOFF LIMITS

WEIGHT	C. G. % MAC
33200 - 35500	27.1
35501 - 35700	27.4
35701 - 36000	27.6

#### AFT TAKEOFF LIMITS

CONFIGURATION	WEIG	GHT	C. G. % MAC
NO EXPENDABLE	33200 -	34200	30.2
ARMAMENT	34201 -	34700	30.1
	34701 -	36000	30.0
	34400 -	35 100	29.0
1 MB-1 AND	35101 -	35600	28.9
4 FALCONS	35601 -	36000	28.8
	34300 -	34800	29.1
1 MB-1 AND	34801 -	35300	29.0
2 FORWARD FALCONS	35301 -	35800	28.9
	35801 -	36000	28.8
	34300 -	34800	29.4
1 MB-1 AND	34801 -	35300	29.3
2 AFT FALCONS	35301 -	35800	29.2
	35801 -	36000	29.1
	34000 -	34500	29.6
1 MB-1	34501 -	35000	29.5
	35001 -	35500	29.4
	35501 -	36000	29.3
	33700 -	34200	29.7
4 FALCONS	34201 -	34700	29.6
	34701 -		29.5
	35201 -	36000	29.4
	33500 -	33900	29.6
2 FWD FALCONS	33901 -	34400	29.7
	34401 -	34900	29.6
	34901 -	36000 ·	29.5
2 AFT FALCONS	33500	3-100	30.0
2 ALL PALCONS	34401 -	34900	29.9
	34901 -		29.8



Page: 137
Report No: ZW-8-519
Model: F-106A
Date: 15 Nov. 1959

TAKE-OFF C.G. LIMITS
(FULL INTERNAL AND EXTERNAL FUEL)
EXTENDED RANGE MISSION
AFT TAKE-OFF C.G. LIMITS (Continued)

CHART E MODEL F-106A SHEET 10 OF 16 DATE-SEE SHEET 1

CONFIGURATION	WEIGHT	C.G. %MAC
(4) GAR-3 OR -4	36800 - 36900	29.4
MISSILES	36901 - 37000	29.5
	37001 - 37100	29.6
	37101 - 37200	29.8
	37201 - 38000	30,0
	38001 - 38300	29.9
	38301 - 39500	29.8
(2) FWD. GAR-3 OR -4	36500 - 36600	29.6
MISSILES	36601 - 36700	29.7
	36701 - 36800	29.8
	36801 - 36900	29.9
	36901 - 37200	30.0
	37201 - 37700	30.1
	37701 - 39500	30.0
(2) AFT GAR-3 OR -4	36500 - 36600	29.9
MISSILES	36601 - 36700	30.0
	36701 - 36800	30.1
	36801 - 36900	30.2
	36901 - 37100	30.3
	37101 - 37200	30.4
	37201 - 37500	30,5
	37501 - 38300	30,4
	38301 - 39500	30.2



### TAKE-OFF C.G. LIMITS (FULL INTERNAL AND EXTERNAL FUEL) EXTENDED RANGE MISSION

FORWARD TAKE-OFF C.G. LIMITS

CHART E MODEL F106A SHEET 9 OF 16 DATE - SEE SHEET 1

138

Report No: ZW-8-519 Model: F-106A 15 Nov. 1959 Date:

## (SEE SHEET 7 AND 8 FOR INTERNAL FUEL CONDITION)

WEIGHT	C.G.% MAC
36500 - 38400	28.0
38401 - 38700	28.1
38701 - 39000	28.2
39001 - 39200	28.3
39201 - 39300	28.4
39301 - 39400	28.5
39401 - 39500	28.6

#### AFT TAKE-OFF C.G. LIMITS

CONFIGURATION	WEIGHT	C.G.% MAC
NO EXPENDABLE	36500 - 36700	30,4
ARMAMENT	36701 - 36800	30.5
	36801 - 36900	30.6
	36901 - 37400	30.7
	37401 - 37900	30.6
	37901 - 39000	30.5
	39001 - 39500	30.6
(1) MB-1	37700 - 37800	29.0
(4) GAR-3 OR -4	37801 - 37900	29.1
MISSILES	37901 - 39500	29.2
(1) MB-1	37400 - 37500	29.2
(2) FWD. GAR-3 OR -4	37501 - 37600	29.3
MISSILES	37601 - 38000	29.4
	38001 - 38100	29.5
	38101 - 38900	29.6
	38901 - 39500	29.5
(1) MB-1	37400 - 37600	29.4
(2) AFT GAR-3 OR -4	37601 - 37700	29.5
MISSILES	37701 - 37900	29.6
	37901 - 38300	29.7
	38301 - 39200	29.6
	39201 - 39500	29.5
(1) MB-1	37100 - 37300	29.4
	37301 - 37400	29.6
	37401 - 37600	29.7
	37601 - 38700	29.9
	38701 - 39500	29.8



139 Page: Report No: ZW-8-519

F-106A Model:

Date: 15 Nov. 1959

#### INTERNAL FUEL TABLE JP-4 (USABLE) NORMAL CONDITION - NO FUEL IN TANK "T"

CHART E MODEL F-106 A SHEET 11 OF 16 DATE - SEE SHEET 1

\*BASED UPON USE OF MIL-F-5624B (1) GRADE JP-4 FUEL AT 6.5 LB PER

SEE SHEETS 13 AND 14 FOR OVERLOAD CONDITION

U.S. GALLONS	WEIGHT*	ARM	MOMENT 1000
10	65	536.7	35
20	130	536.5	70
30	195	536.3	105
40	260	536.1	139
50	325	535.8	174
60	390	535.5	209
70	455	535.0	243
80	520	534.5	278
90	585	533.8	312
100	650	533.1	347
1 10	715	532.2	381
120	780	531.4	4 14
130	845	530.5	448
140	9 10	529.5	482
150	975	528.5	-515
160	1040	527.7	549
170	1105	526.4	582
180	1 170	525.0	614
190	1235	523.8	647
200	1300	522.4	679
210	1365	520.5	7 10
220	1430	514.3	735
230	1495	507.4	759
240	1560	507.6	792
250	1625	507.8	. 825
260	1690	508.0	8 59
270	1755	508.1	892
280	18 20	508.3	925
290	1885	508.5	959
300	1950	5,08.8	992
310	2015	509.1	1026
320	2080	509.2	1059
330	2145	509.3	1092
340	2210	509.2	1125
350	2275	509.1	1158
360	2340	508.9	1191
370	2405	508.7	1223
380	2470	508.4	1256

U.S. GALLONS	WEIGHT*	ARM	MOMENT 1000
390	2535	505.0	1280
400	2600	500.9	1302
410	2665	493.3	1315
420	2730	487.9	1332
430	2795	48 2.7	1349
440	2860	476.5	1363
450	2925	471.1	1378
460	2990	465.8	1393
470	3055	460.7	1407
480	3120	456.1	1423
490	3185	451.7	1439
500	3250	447.5	1454
510	3315	443.0	1469
520	3380	439.2	1484
530	3445	435.4	1500
540	3510	431.8	1516
550	357 5	428.8	1533
560	3640	425.0	1547
570	3705	423.2	1568
580	3770	423.3	1596
- 590	38 35	423.5	1624
600	3900	424.2	1654
610	3965	425.4	1687
620	4030	426.5	17 19
630	4095	427.7	1751
640	4160	429.1	1785
650	4225	430.4	18 18
660	4290	431.7	1852
670	4355	433.1	1886
680	4420	434.4	1920
690	4485	435.8	1955
700	4550	437.2	1989
7 10	4615	438.8	2025
720	4680	440.1	2060
730	4745	441.3	2094
740	48 10	442.6	2129
750	4875	443.8	2164
760	4940	445.0	2198

FUEL AT WEIGHING





Page: 140 Report No: ZW-8-519

Model: F-106A

Date: 15 Nov. 1959

## INTERNAL FUEL TABLE JP-4 (USABLE) NORMAL CONDITION - NO FUEL IN TANK "T"

CHART E MODEL F-106A SHEET 12 OF 16 DATE - SEE SHEET 1

\*BASED UPON USE OF MIL-F-5624B (1) GRADE JP-4 FUEL AT 6.5 LB PER U. S. GAL

#### SEE SHEETS 13 AND 14 FOR OVERLOAD CONDITION

U.S. GALLONS	WEIGHT*	ARM	MOMENT 1000
770	5005	446.3	2234
780	5070	447.1	2267
790	5135	448.0	2300
800	5200	449.1	2335
810	5265	450.0	2369
8 20	5330	450.8	2403
8 30	5395	451.7	2437
840	5460	452.4	2470
850	5525	453.1	2503
860	5590	453.8	2537
870	56 55	454.4	2570
880	57 20	455.0	2603
890	5785	455.6	2636
900	58 50	456.1	2668
910	59 15	456.5	2700
9 20	5980	457.0	2733
930	6045	457.5	2766
940	6110	457.9	2798
950	6175	458.3	2830
960	6240	458.6	2862
970	6305	458.6	2891
980	6370	458.5	2921
990	6435	458.2	29 49
1000	6500	457.8	2976
1010	6565	457.4	3003
1020	6630	456.9	30 29
1030	6695	456.4	3056
1040	6760	456.0	3083
1050	6825	455.5	3109
1060	6890	455.0	3135
1070	6955	454.5	3161
1080	7020	454.1	3 188
1090	7085	453.6	3214
1100	7150	453.1	3240
1110	7215	452.7	3266
1120	7280	452.2	3292
1130	7345	451.7	3318
1140	7410	451.3	3344

U.S. GALLONS	WEIGHT*	ARM	MOMENT 1000
1150	7475	450.8	3370
1160	7540	450.3	3395
1170	7605	449.8	3421
1 180	7670	449.4	3447
1190	7735	448.9	3472
1200	7800	448.4	3498
1210	7865	447.9	3523
1220	7930	447.2	3546
1230	7995	446.3	3568
1240	8060	444.1	3579
1250	8125	442.6	3596
1260	8 19 0	441.2	3613
1270	8255	439.2	3626
1280	8320	438.2	3646
1290	8 38 5	437.4	3668
1300	8450	436.9	3692
1310	8515	436.6	37 18
1320	8580	436.3	3743
1330	8645	436.3	3772

FUEL AT WEIGHING





#### INTERNAL FUEL TABLE JP-4 (USABLE) OVERLOAD CONDITION - FUEL IN TANK "T"

Page: 141
Report No: ZW-8-519
Model: F-106A
Date: 15 Nov. 1959

CHART E MODEL F-106A SHEET 13 OF 16 DATE - SEE SHEET 1

\*BASED UPON USE OF MIL-F-5624B. (1)
GRADE JP-4 FUEL AT 6.5 LB PER U.S. GAL

SEE SHEETS 11 AND 12 FOR NORMAL CONDITION

65 130 195 260 325 390 455 520 585 650 715 780 845 910 975 1040 1105 1170	553.5 547.0 543.5 541.8 540.7 542.7 544.8 544.7 541.8 539.5 538.2 537.0 536.0 534.6 531.6 529.3 527.7	36 71 106 141 176 212 248 283 317 351 385 419 453 486 518 550 583
130 195 260 325 390 455 520 585 650 715 780 845 910 975 1040 1105	543.5 541.8 540.7 542.7 544.8 544.7 541.8 539.5 538.2 537.0 536.0 534.6 529.3 527.7	71 106 141 176 212 248 283 317 351 385 419 453 486 518
195 260 325 390 455 520 585 650 715 780 845 910 975 1040 1105	543.5 541.8 540.7 542.7 544.8 544.7 541.8 539.5 538.2 537.0 536.0 534.6 529.3 527.7	106 141 176 212 248 283 317 351 385 419 453 486 518 550
260 325 390 455 520 585 650 715 780 845 910 975 1040 1105	541.8 540.7 542.7 544.8 544.7 541.8 539.5 538.2 537.0 536.0 534.6 529.3 527.7	176 212 248 283 317 351 385 419 453 486 518 550
325 390 455 520 585 650 715 780 845 910 975 1040 1105	542.7 544.8 544.7 541.8 539.5 538.2 537.0 536.0 534.6 531.6 529.3 527.7	176 212 248 283 317 351 385 419 453 486 518 550
390 455 520 585 650 715 780 845 910 975 1040 1105	542.7 544.8 544.7 541.8 539.5 538.2 537.0 536.0 534.6 531.6 529.3 527.7	212 248 283 317 351 385 419 453 486 518 550
455 520 585 650 715 780 845 910 975 1040 1105	544.8 544.7 541.8 539.5 538.2 537.0 536.0 534.6 531.6 529.3 527.7	283 317 351 385 419 453 486 518 550
520 585 650 715 780 845 910 975 1040 1105	544.7 541.8 539.5 538.2 537.0 536.0 534.6 531.6 529.3 527.7	317 351 385 419 453 486 518 550
585 650 715 780 845 910 975 1040 1105	539.5 538.2 537.0 536.0 534.6 531.6 529.3 527.7	351 385 419 453 486 518 550
650 715 780 845 910 975 1040 1105	539.5 538.2 537.0 536.0 534.6 531.6 529.3 527.7	385 419 453 486 518 550
715 780 845 910 975 1040 1105	537.0 536.0 534.6 531.6 529.3 527.7	419 453 486 518 550
780 845 910 975 1040 1105	537.0 536.0 534.6 531.6 529.3 527.7	453 486 518 550
910 975 1040 1105	536.0 534.6 531.6 529.3 527.7	486 518 550
910 975 1040 1105	534.6 531.6 529.3 527.7	5 18 550
975 1040 1105	529.3 527.7	550
1105	529.3 527.7	
1105	10000	583
	E24 4	
	526.4	616
1235	524.7	648
1300	523.1	680
1365	521.5	712
1430	520.0	744
1495	518.4	775
1560	517.1	807
1625	516.0	839
	515.5	871
	515.0	. 904
1820	514.7	937
1885	514.4	970
	514.1	1002
	513.9	1036
	513.7	1068
2145	513.6	1102
2210	513.9	1136
	514.3	1170
	514.6	1204
	514.8	1238
		1272
	10000	1306
1000	100000	1338
	1690 1755 1820 1885 1950 2015 2080 2145 2210 2275 2340 2405 2470 2535	1690 515.5 1755 515.0 1820 514.7 1885 514.4 1950 514.1 2015 513.9 2080 513.7 2145 513.6 2210 513.9 2275 514.3 2340 514.6 2405 514.8 2470 515.1

SEE SHEETS 11 AND 12 FOR NORMAL CONDITION				
U.S.			MOMENT	
GALLONS	WEIGHT*	ARM	1000	
410	2665	514.4	1371	
420	2730	512.4	1399	
430	2795	508.1	1420	
440	2860	503.5	1440	
450	2925	498.0	1457	
460	2990	492.5	1473	
470	3055	487.6	1490	
480	3120	482.0	1504	
490	3185	476.9	1519	
500	3250	471.0	1531	
510	3315	466.6	1547	
520	3380	462.0	1562	
530	3445	457.1	1575	
540	3510	452.2	1587	
550	3575	447.4	1599	
560	3640	442.8	1612	
570	3705	439.9	1630	
580	3770	436.8	1647	
590	3835	434.1	1665	
600	3900	432.8	1688	
610	3965	434.5	1723	
620	4030	435.6	1755	
630	4095	436.7	1788	
640	4160	437.8	1821	
650	4225	439.0	1855	
660	4290	440.1	1888	
670	4355	441.2	1921	
680	4420	442.4	1955	
690	4485	443.5	1989	
700	4550	444.6	2023	
710	4615	445.6	2056	
720	4680	446.7	2091	
730	4745	447.8	2125	
740 .	4810	448.9	2159	
750	4875	450.0	2194	
760	4940	451.1	2228	
770	5005	452.2	2263	
780	5070	453.4	2299	
790	5135	454.5	2334	
800	5200	455.5	2369	

FUEL AT WEIGHING





Page: 142 Report No: ZW-8-519

Model: F-106A Date: 15 Nov. 1959

CHART E

## INTERNAL FUEL TABLE JP-4 (USABLE) OVERLOAD CONDITION - FUEL IN TANK "T"

CHART E MODEL F-106A-SHEET 14 OF 16 DATE - SEE SHEET 1

\*BASED UPON USE OF MIL-F-5624B (1)
GRADE JP-4 FUEL AT 6.5 LB PER U.S. GAL

SEE SHEETS 11 AND 12 FOR NORMAL CONDITION

U.S. GALLONS	WEIGHT*	ARM	MOMENT 1000
8 10	5265	456.0	2401
820	5330	456.4	2433
830	5395	456.8	2464
840	5460	457.1	2496
850	5525	457.3	2527
860	5590	457.6	2558
870	5655	457.9	2589
880	5720	458.2	2621
890	5785	458.6	2653
900	5850	459.0	2685
910	5915	459.3	2717
920	5980	459.7	2749
930	6045	460.2	2782
940	6110	460.6	2814
950	6175	461.0	2847
960	6240	461.4	2879
970	6305	461.8	2912
980	6370	462.1	2944
990	6435	462.0	2973
1000	6500	461.7	3001
1010	6565	461.4	3029
1020	6630	461.0	3056
1030	6695	460.6	3084
1040	6760	460.2	3111
1050	6825	459.8	3 138
1060	6890	459.4	3165
1070	6955	458.9	3192
1080	7020	458.3	3217
1090	7085	457.8	3244
1100	7150	457.2	3269
1110	7215	456.7	3295
1120	7280	456.2	3321
1130	7345	455.7	3347
1140	7410	455.2	3373
1150	7475	454.8	3400
1160	7540	454.4	3426
1170	7605	453.9	3452
1180	7670	453.4	3478
1190	7735	452.9	3503
1200	7800	452.3	3528

U.S. GALLONS	WEIGHT*	ARM	MOMENT 1000
GALLONS	WEIGHT	AINM	1000
1210	7865	45 1.7	3553
1220	7930	451.0	3576
1230	7995	450.3	3600
1240	8060	449.3	3621
1250	8125	448.3	3642
1260	8190	447.0	3661
1270	8255	445.4	3677
1280	8320	442.5	3682
1290	8385	441.5	3702
1300	8450	441.1	3727
1310	8515	441.2	3757
1320	8580	442.1	3793
1330	8645	443.0	3830
1340	8710	443.9	3866
1350	8775	444.8	3903
1360	8840	445.7	3940
1370	8905	446.6	3977
1380	8970	447.5	40 14
1390	9035	448.4	4051
1400	9100	449.3	4089
14 10	9165	450.2	4126
1420	9230	451.1	4164
1430	9295	452.0	4201
1440	9360	452.9	4239
1450	9425	453.9	4278
1460	9490	454.9	4317
1470	9555	455.4	4351
1480	9620	455.8	4385
1490	9685	456.1	4417
1500	9750	455.7	4443
15 10	9815	455.2	4468
1520	9880	454.6	4491
1530	9945	454.1	4516
1540	100 10	453.6	4541
1550	10075	453.1	4565
1560	10140	452.5	4588
1570	10205	452.0	4613
1580	10270	451.5	4637
1590	10335	451.0	4661
1600	10400	450.5	4685

FUEL AT WEIGHING





Page: 143

1959

Report No: ZW-8-519

Model: F-106ACHARTE

Model: F-106A SHEET 15 OF 16

DATE - SEE SHEET 1

FUEL-USABLE (2) TANKS U.S. GALLONS	WEIGHT*	ARM	MOMENT 1000
400	2600	439	1141
410	2665	440	1173
420	2730	440	1201
430	2795	441	1233
440	2860	441	1261
450	29 25	442	1293
454**	2951	442	1304
460	2990	442	1322
470	3055	443	1353
ROPPABLE TANKS ND PYLONS (2)	330	451	149
INUSABLE FUEL 6 ALLONS-DROPS WITH TANKS	39	494	19

<sup>\*</sup>BASED UPON USE OF MIL-F-5624B (1) GRADE JP-4 FUEL AT 6.5 LBS. PER U.S. GALLON

<sup>\*\*</sup> STANDARD QUANTITY OF USABLE EXTERNAL FUEL PER T.O. IF-106A-2-5

TANK EMP	TYING SEQUENCE
TANK NO. APPROX. GALLON	
1 PART	48
FPART	60
1 REMAINDER	251
2 ALL	311
3 PART	63
FPART	176
3 PART	194
3 REMAINDER	167
F REMAINDER	4
LINES	30

TANK EMPTYING SEQUENCE		
TANK NO.	APPROX. GALLONS	
1 PART	48	
TPART	170	
F PART	60	
1 REMAINDER	251	
2 ALL	311	
3 PART	63	
FPART	176	
3 PART	194	
3 REMAINDER	167	
T REMAINDER	40	
F REMAINDER	4	
LINES	30	

EXTERNAL TANKS EMPTY PRIOR TO TANKS NO. 1





## UNCLASSIFIED

CREW CHART PILOT AND CHUTE NORMAL WEIGHT = 235 ARM = 149" MOMENT/1000 WEIGHT 180 27 30 200 33 220 35 235 36 240 39 260

Page: 144
Report No: ZW-8-519
Model: F-106A CHART E
MODEL F-106A
Date: 15 Nov. SHEET 16 OF 16
1959 DATE -SEE SHEET 1

OIL CHART  MAXIMUM = 4.5 GAL  ARM = 505"				
U.S. GAL	WEIGHT	MOMENT/1000		
2	15	8		
3	23	12		
4	30	15		
4.5 34 17				
UNIT WE	UNIT WEIGHT = 7.5 LB PER U.S. GAL			

			POSSIBLE	MISSILE	LOADINGS		
LOADING - NO.		TYPE	LOCATION	NO.	WEIGHT	ARM	MOMENT/1000
1		GAR-3 GAR-4	FWD AFT	2 2	282 264	27.5 37.1	78 98
1	TOTAL			4	546		176
2	TOTAL	GAR-3 GAR-3	FWD AFT	2 2	282 282	275 371	78 105
_				4	564		183
3	TOTAL	GAR-4 GAR-4	FWD AFT	2 2	264 264	275 371	73 98
J				4	528		171
1	TOTAL	GAR-3A GAR-4A	FWD AFT	2 2	296 298	275 371	81
4				4	594		192
5	TOTAL	GAR-3A GAR-3A	FWD AFT	2 2	296 296	275 371	81 110
J				4	592		191
6		GAR-4A GAR-4A	FWD AFT	2 2	298 298	275 371	82 111
U	TOTAL			4	596		193

	ROO	CKET LO	ADING		
TYPE		NO.	WEIGHT	ARM	MOMENT/1000
MB-1		1	828	348	288

NOTE: MISSILE LAUNCHER RAILS ARE A PART OF BASIC WEIGHT AND ARE SHOWN ON CHART "A".

UNCLASSIFIED



UNCLASSIFIED WEIGHT AND BALANCE CLEARANCE FORM F Model: F-106A T. O. 1-1B-40 & 959AN 01-18-40 Date: 15 Nov. Convair HOME STATION AIRPLANE TYPE DATE Palmdale, Californi F-106A PILOT MISSION/TRIP/FLIGHT/NO. SERIAL NO. 58-759 Flyaway MOM/ 1000 REMARKS WEIGHT For nromal fuel condi-REF ITEM tion use line #10 for 1001 23672 BASIC AIRPLANE (From Chart C) take-off weight. 3 Gal.) OIL ( 4.5 2 C.G. 27.7% \*Overload condition DISTRIBUTION OF LOAD 3 with E.C.P. 4144 (T CREW CARGO AND Tanks full): with take BAGGAGE COMPT WEIGHT NO. off C.G. within indi-235 Pilot C cated limits, landing C.G. will automatically fall within permissible limits. Horizontal arm for tank "T" fuel is 568 inches. COMPUTER PLATE NO. (If used) Chart "E" OPERATING WEIGHT 2 3 9 4 1007 Pertinent instructions to the pilot for shifting load and crew during takeoff and landing should be noted above. ROUNDS CALIBER COMPT. CORRECTIONS (Ref. 11) AMMUNITION CHANGES (+ or -) COMPT ITEM 1 200000000 WEIGHT MOM/1000 Wing Built in Transfer Tank (210 6 FORWARD gal.) 1365 775 BOMBS. ROCKETS, E AFT EXTERNAL ROCKETS 8 4 7 BUILT IN ( 1304 Gal.) 3 7 0 2 BOMB BAY ( Gal.) EXTERNAL ( Gal.) 8 WATER INJ. FLUID ( (Gal.) 9 JATO OR RATO TOTAL WEIGHT REMOVED 10 TAKEOFF CONDITION (Uncorrected) 11 CORRECTIONS (If required) 6 TOTAL WEIGHT ADDED +1365 12 TAKEOFF CONDITION (Corrected) 13 TAKEOFF C. G. IN % M. A. C. OR IN. NET DIFFERENCE (Ref. 11) 775 14 JATO OR RATO LIMITATIONS BOMBS 1 GROSS WT. TAKEOFF (Ib.) GROSS WT. LANDING (16.) EXPENDABLI AMMUNITION 38.575 35,327 1514 gal. 447 8 4 1 FROM PERMISSIBLE C. G. TAKEOFF TO (% M. A. C. 30.2% PERMISSIBLE C. G. LANDING TO (% M. A. C. % IN.) ESTIMATED LANDING CONDITION ESTIMATED LANDING C. G. IN % M. A. C. OR IN. 1 Enter constant used. COMPUTED BY (Signature) 1 Enter values from current applicable T. O. WEIGHT AND BALANCE AUTHORITY (Signature) 1 Applicable to gross weight (Ref. 12). Applicable to gross weight (Ref. 15). PILOT (Signature)

144

Page:

Report No: ZW-0-