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12-17-42

BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL XF4U-2 LAND.

(F)	FIGHTER	FIGHTER	FIGHTER	FIGHTER	BOMBER 2-100#	
GROSS WEIGHT LBS	11506	11506	13056	14091	13314	
WEIGHT EMPTY "			8859			
FUEL GALS.	178	178	363	523	363	
FX. GUNS/RDS. AMM.	6-.50/1200		6-.50/2350			
" " "						
WING LOADING	36.6	36.6	41.5	44.8	42.4	
POWER LOADING	7.5	7.5	8.4	9.1	8.6	
ENGINE	R-2800-8 (2:1)					
ENGINE RATING (BHP/RPM/ALT.)	NORMAL		MILITARY			
	1675/2550/S.L.-5500		2000/2700/S.L.-1000			
	1625/2550/6400-15000		1800/2700/4000-13500			
	1550/2550/16000-21500		1650/2700/15600-22500			
ENG. RATS FOR PERE.	Military	Normal	Normal	Normal	Normal	
VM-SEA LEVEL MPH	328	306	304	290	297	
- 5500' (Norm)	331/1000	323	321	306	313	
- 6400' " "	328/4000	324				
-15000' " "	358/13500	351	348	331	339	
-16000' " "	354/15600	345				
-21500' " "	375/22500	366	362	344	352	
-24000' " "	383/25200	373				
-26000' " "	379	365				
-30000' " "	349	337				
CLIMB-S.L. FT/MIN	3020	2410	2010	1790	1960	
-21500' " "	1980/22500	1910	1500	1300		
TIME-10000' MIN	3.8	4.3	5.2	5.9	5.4	
-20000' " "	8.4	9.1	11.2	12.8	11.5	
SERVICE CEIL. FT	33700	33000	31100	29800	30700	
VS-GR. WEIGHT MPH		82.2	87.6	91.0	88.4	
-LESS FUEL "		78.3	80.0	80.2	80.9	
END/60% VM	HR/MPH	3.2/220	6.0/217	8.1/206	5.9/211	
/75 " "	" "	2.4/274	4.6/271	6.5/258	4.6/268	
/90 " "	" "					
/VM	" "	.6/366	1.3/362	1.9/344	1.3/352	
MAX END/VAV*	HR/MPH					
" RANGE/VAV*	MI/MPH	760/179	1440/184	1860/182	1360/180	
TAKE-OFF CALM FT.		600	825	1025	880	
(LAND)-15 KN. "		365	528	656	563	
-25 KN. "		242	363	463	390	
TAKE-OFF (SEA) SEC.	---	---	---	---	---	

*AT 5500 FT.

REMARKS

IFF equipment and AIA in all loadings.

RE-ISSUED FROM ORIGINAL DATE - Range and Endurance figures recomputed
incorporating a suitable increase in S.F.C. to conform with past experience.

SHEET 1 OF 2

MODEL XF4U-2 LAND.

BU. OF AERO., NAVY DEPT.
GENERAL DATA

12-17-42

MODEL XF4U-2 LAND.

UNCLASSIFIED

GENERAL

GROSS WEIGHT _____ LBS. C.G. _____ % M.A.C. C.G. FROM T. L. _____ INS.
MAX. CENTER OF GRAVITY RANGE _____ TO _____ % M.A.C.

SPAN _____ 41'-0" HEIGHT, LEVEL _____ 15'-0"
" , FOLDED _____ 17'-1" " , ON WHEELS _____
LENGTH, LEVEL _____ 33'-4" " , " " , FOLDED _____ 16'-0"
" , ON WHEELS _____ " , HOIST. ATTITUDE _____ 11'-9"

WING AREA _____ 314 SQ. FT. M.A.C. _____ 94.0 INS.
WING SECTION _____ NACA 23018 to 23009

DISP, MAIN FLOAT _____ --- LBS. DISP, AUX. FLOAT _____ --- LBS.
BEAM, MN. FL., HULL _____ ---

PROPELLER

TYPE _____ Ham. Std. C.S. NO. OF BLADES _____ 3
DIAMETER _____ 13'-4" BLADE DEG. NO. _____ 6443

FUEL TANKAGE

FIXED TANKS (PROTECTED) _____ 237 GALS. TOTAL, FIXED TANKS _____ 363 GALS.
" " (UNPROTECT) _____ 126 GALS. " , " (PROT. REMOVED) _____ --- GALS.
AUX. TANKS, DROPPABLE _____ 1 @ 160 gals.

OIL TANKAGE

TOTAL (PROTECT., UNPROTECT.) _____ 26 GALS. TOTAL (PROT. REMOVED) _____ 26 GALS.

PROV. FOR BOMBS, ETC.

2-100#

REMARKS The first 623 F4U-1 airplanes (approximately) will not have the change incorporated which provides (1) for substituting a 26 gallon oil tank for the 20 gallon tank and (2) for the droppable fuel tank installation. The fuel and oil capacities for the F4U-2 conversion will therefor depend upon the F4U-1 airplane used.