

~~CONFIDENTIAL~~
25 10-12-42

BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL PB0-1 LAND.

(F) (A)	PATROL	PATROL (1)	A.S. PATROL 4 D.Bombs			
GROSS WEIGHT LBS	18837	19230	20203			
WEIGHT EMPTY "		12680				
FUEL GALS.	644	644	644			
Fx. GUNS/RDS. AMM.		2-.30/1000				
Flx. " " "	1-.30/1300	3-.30/3300	1-.30/1000			
WING LOADING	34.2	34.9	36.7			
POWER LOADING	10.5	10.7	11.3			
ENGINE	2 R-1820-40 (3:2)					
ENGINE RATING (BHP/RPM/ALT)	NORMAL		MILITARY			
	1000/2300/SL-4500		None			
	900/2300/14000					
	1200/2500/T.O.					
ENG. RAT'S FOR PERF.						
VM-SEA LEVEL MPH	237	232	236			
- 4500'	249	243	248			
- 7300'	246					
-14000'	263	257	262			
-15300'	267	261	266			
-20000'	256					
-25000'	226					
- "						
- "						
CLIMB-S.L. FT/MIN	1450	1320	1290			
" "						
TIME-10000' MIN	7.5	8.1	8.5			
-20000' "	17.8	19.1	20.7			
SERVICE CEIL. FT	26200	25500	24900			
VS-GR. WEIGHT MPH	69.4	70.2	71.8			
-LESS FUEL "	61.9	62.8	64.6			
END/60% VM	11.9	11.4	11.0			
75 " 1000'	8.4	8.2	7.9			
75 " 14000'	4.2	4.1	4.0			
VM " 14000'	2.8	2.8	2.8			
MAY END/VAV* HR/PM	14.6/119	14.0/118	13.3/123			
" RANGE/VAV* NI/PM	1890/129	1790/127	1750/131			
TAKE-OFF CALM FT	550	590	670			
(LAND) -15 KN. "	300	320	380			
-25 KN. "	170	190	220			
TAKE-OFF (SEA) SEC	-	-	-			

*AT 1500 FT.

REMARKS

IFF equipment and ASV in all loadings. Take-off runs with normal A. A. F. technique are approximately twice as long as those listed above. (1) Turret is only included in this loading.

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

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CLASSIFIED IN ACCORDANCE WITH E.O. 11652

MODEL PB0-1

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BU. OF AERO., NAVY DEPT.
GENERAL DATA

MODEL PB0-1 LAND.

GENERAL

GROSS WEIGHT _____ LBS. C.G. _____ % M.A.C. C.G. FROM T. L. _____ INS.
MAX. CENTER OF GRAVITY RANGE _____ E. 0. TO _____ % M.A.C.

SPAN _____ 65'-6" HEIGHT, LEVEL _____ 16'-10"
" , FOLDED _____ " , ON WHEELS _____
LENGTH, LEVEL _____ 44'-4" " , " " , FOLDED _____
" , ON WHEELS _____ " , HOIST. ATTITUDE _____

WING AREA _____ 551 SQ. FT. M.A.C. _____ 115.9 INS.
WING SECTION NACA 23018 to 2309

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

PROPELLER

TYPE _____ Ham. Std. C. S. NO. OF BLADES _____ 3
DIAMETER _____ 10'-7" BLADE DES. NO. _____ 6179

FUEL TANKAGE

FIXED TANKS (PROTECTED) _____ 644 GALS. TOTAL, FIXED TANKS _____ 644 GALS.
" " (UNPROTECT) _____ None GALS. " , " (PROT. REMOVED) _____ --- GALS.
AUX. TANKS, ~~INTERNAL~~ Fuselage - 134 Gals.
Bomb Bay - 250 Gals.

OIL TANKAGE

TOTAL (PROTECT., UNPROTECT.) _____ 36 GALS. TOTAL (PROT. REMOVED) _____ -- GALS.

PROV. FOR BOMBS, ETC.

4 - 325# D.B.

REMARKS

Ferry Weight Empty: Removable armor and miscellaneous equipment removed.