

~~CONFIDENTIAL~~

BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL XBTC-1 LAND

1 JUNE 1943

	← 1-500#	1-500#	BOMBER 1-1000#	1-1000#	1-1600# 2-500#	TORPEDO 1-MK13-2
GROSS WEIGHT LBS	13485	13485	15602	16708	17234	16729
WEIGHT EMPTY "			10726			
FUEL /OIL GALS.	200/13	200/13	360/23	510/33	360/23	360/23
FX GUNS/RDS. AMM.	2-20mm/400rds		4-20mm/800rds			
" " "						
WING LOADING	34.2	34.2	39.6	42.5	43.7	42.5
POWER LOADING	(MTL) 7.1	7.5	8.7	9.3	9.6	9.3
ENGINE	R-3350-8 (16:7)					
ENGINE RATING (BHP/RPM/ALT)	NORMAL			MILITARY		
	2100/2400/S.L.-2500			2250/2600/S.L.-2800		
	1800/2400/6800-13600			1900/2600/7200-14000		
	2300/2800/TO.					
ENG. RAT'S FOR PERF.	MIL	NORM	NORM	NORM	NORM	NORM
VM-SEA LEVEL MPH	338	331	329	303	306	307
- 2500 (NORM.) "	348/2800	339	337	311	314	315
- 6800 "	342/7200	333				
- 13600 "	367/14000	357	353	323	328	329
- 15500 "	374/16000	364	360	329	334	335
- 20000 "	364	353				
- 25000 "	345	332				
- " "						
- " "						
CLIMB-S.L. FT/MIN	2650	2430	1960	1730	1640	1720
- 13600 "	2030/14000	1890	1440	1210	1140	1210
TIME-10000' MIN	4.3	4.7	5.9	6.8	7.3	6.8
- 20000' "	9.9	10.8	14.1	16.8	18.2	16.8
SERVICE CEIL. FT		30900	28400	26600	26700	26200
VS-GR. WEIGHT MPH		78.0	83.9	86.8	88.1	86.9
- LESS FUEL "		74.4	77.9	78.4	82.4	81.0
END/60% VM		4.6/203	7.7/202	10.3/187	7.0/188	7.2/189
/75 " 2500'		2.9/254	4.9/253	6.7/233	4.6/235	4.7/236
/90 " "		1.1/305	2.0/303	2.8/280	2.0/282	2.0/283
/VM " "		0.8/339	1.5/337	2.1/311	1.5/314	1.5/315
MAX END/VAV* HR/MPH		6.2	9.6	11.9	8.0	8.2
" RANGE/VAV* MI/MPH		955/182	1580/188	1935/178	1320/182	1365/181
TAKE-OFF-CALM FT.		602	848	1039	1115	1038
(LAND)-15 KN. "		388	566	703	759	703
-25 KN. "		271	410	516	561	516
TAKE-OFF (SEA) SEC.						

*AT 2500 FT.

REMARKS IFF Equipment and provisions for ASH in all loadings.

ADD 140# to U.L. if ASH is installed.

Performance is based on manufacturers' estimates except range and endurance are Bureau Estimates.

Bureau estimate of Vs is 3 mph higher than above values.

DECLASSIFIED IN ACCORDANCE WITH E. O. 11652

~~CONFIDENTIAL~~

SHEET 1 OF 2

MODEL XBTC-1 LAND.

~~CONFIDENTIAL~~
1 JUNE 1943

BU. OF AERO., NAVY DEPT.
GENERAL DATA

MODEL XBTC-1 LAND.

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 _____ 48'-0" HEIGHT, LEVEL _____ 17'-0"
" , FOLDED _____ 22'-6" " , ON WHEELS _____ 13'-11"
LENGTH, LEVEL _____ 37'-0" " , " " , FOLDED _____ 16'-1"
" , ON WHEELS _____ 37'-2" " , HOIST. ATTITUDE _____

WING AREA _____ 395 SQ. FT. M.A.C. _____ 100.4 INS.
WING SECTION _____ NACA 23016-23009

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

PROPELLER

TYPE _____ Curtiss Const. Speed NO. OF BLADES _____ 4
DIAMETER _____ 13'-2" BLADE DES. NO. _____ 826

FUEL TANKAGE

FIXED TANKS (PROTECTED) _____ 360 GALS. TOTAL, FIXED TANKS _____ 360 GALS.
" " (UNPROTECT) _____ GALS. " " (PROT. REMOVED) _____ GALS.
AUX. TANKS, DROPPABLE Wings: 2 @ 75 gals. each
Bomb Bay: 1 @ 130 gals. (tentative)

OIL TANKAGE

TOTAL (PROT. REMOVED, UNPROTECT.) _____ 38 GALS. TOTAL (PROT. REMOVED) _____ GALS.

PROV. FOR BOMBS, ETC.

Bomb Bay: Bombs: 1-500#, 1-1000# or 1-1600#
D. Bombs: 1-325# or 1-650#
Mines: 1-MK13-1 or MK15
Under Fuselage: Torpedo: 1-MK13-1 or MK13-2
Wings: Bombs: 2-500#
D. Bombs: 2-325# or 2-650#

REMARKS

SHEET 2 OF 2

DECLASSIFIED IN ACCORDANCE WITH E. O. 11652