

CONFIDENTIAL  
1 MAY 1943

BU. OF AERO., NAVY DEPT.  
PERFORMANCE DATA

MODEL BD-2 LAND.

	BOMBER (1-1000)	TOW TARGET	TORPEDO (1 MK 13-1)			
GROSS WEIGHT LBS	20150	20500	21500			
WEIGHT EMPTY "	14647		14669			
FUEL GALS.	394	494	494			
FX GUNS/RDS. AMM.	2-.50/400	2-.30/2000				
FLX. " " "	1-.50/200	1-.30/500				
WING LOADING	43.3	44.1	46.2			
POWER LOADING	7.9	8.0	8.4			
ENGINE	2 R-2600-11 (16:9)					
ENGINE RATING (BHP/RPM/ALT.)	NORMAL		MILITARY			
	1350/2300/S.L.-5500					
	1275/2300/7200-12000					
ENG. RATS FOR PERF.	1600/2400/T.O.					
VM-SEA LEVEL MPH	292	292	283			
- 5500' (NORM.) "	308	308	300			
- 7200' "	308					
- 12000' "	322	322	312			
- 14000' "	328	328	318			
- 18000' "	317					
- 22000' "	300					
- " "						
- " "						
CLIMB-S.L. FT/MIN	1940	1890	1750			
- 12000' "	1740	1690	1540			
TIME-10000' MIN	5.4	5.5	6.0			
- 20000' "	12.9	13.3	14.8			
SERVICE CEIL. FT	26900	26700	25600			
VS-GR. WEIGHT MPH	93.4	94.2	96.4			
- LESS FUEL "	87.7	87.1	89.6			
END/60% VM	6.5/185	8.1/185	7.8/180			
/75 " 5500	4.3/231	5.4/231	5.2/225			
/90 " "	1.9/277	2.4/277	2.4/270			
/VM " "	1.2/308	1.5/308	1.5/300			
MAX END/NAV* NI/MPH	7.9/ -	9.9/ -	9.1/ -			
" RANGE/NAV* NI/MPH	1220/167	1530/167	1415/167			
TAKE-OFF-CALM FT.	1168	1217	1397			
(LAND) -15 KN. "	816	853	989			
-25 KN. "	616	649	757			
TAKE-OFF (SEA) SEC.						

\*AT 5500 FT.

REMARKS IFF equipment in all loadings. Estimated performance data, except take-off and stalling speeds are based on BD-1 tests.

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SHEET 1 OF 2

MODEL BD-2 LAND.

BU. OF AERO., NAVY DEPT.  
GENERAL DATA

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1 MAY 1943

MODEL BD-2 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 61'-4" HEIGHT, LEVEL 16'-2"  
" , FOLDED \_\_\_\_\_ " , ON WHEELS \_\_\_\_\_  
LENGTH, LEVEL 48'-0" " , " " , FOLDED \_\_\_\_\_  
" , ON WHEELS \_\_\_\_\_ " , HOIST. ATTITUDE \_\_\_\_\_

WING AREA 465 SQ. FT. M.A.C. 100.2 INS.  
WING SECTION NACA 23018 to 23010

DISP, MAIN FLOAT \_\_\_\_\_ LBS. DISP, AUX. FLOAT \_\_\_\_\_ LBS.  
BEAM, MN. FL., HULL \_\_\_\_\_

PROPELLER

TYPE Ham. Std. C.S. NO. OF BLADES 3  
DIAMETER 11'-4" BLADE DES. NO. 6393

FUEL TANKAGE

FIXED TANKS (PROTECTED) 394 GALS. TOTAL, FIXED TANKS 394 GALS.  
" " (UNPROTECT) \_\_\_\_\_ GALS. " , " (PROT. REMOVED) \_\_\_\_\_ GALS.  
AUX. TANKS, DROPPABLE 1 @ 100 gals. (protected) in bomb bay.  
1 @ 140 gals. (protected) in bomb bay.

OIL TANKAGE

TOTAL (PROTECT., ~~UNPROTECT~~) 44 GALS. TOTAL (PROT. REMOVED) \_\_\_\_\_ GALS.

PROV. FOR BOMBS, ETC.

Bomb Bay - Bombs: 10-100, 8-300, 3-500 or 1-1000# (A.A.F.)  
D. Bombs: 2-325#.  
Wings - Bombs: 4-100 or 2-500# (A.A.F.)  
D. Bombs: 2-325#  
Under Fuselage Torpedo: 1 MK. 13-1 or 13-2  
(2-.50 Fx. in nose of fuselage.  
(2-.30 Fx. in nacelles, firing aft.  
Maximum rounds of ammunition for .50 cal. flexible gun is 400.

REMARKS \_\_\_\_\_  
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