

AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		1	2	3	4
LOADING CONDITION		PATROL 8-325# DRPTH BOMBS	PATROL 8-325# DEPTH BOMBS	PATROL 4-650#D.B. + 2-325#D.B. + 2 DROP TANKS	TORPEDO 2 MARK 13-2 TORPEDOES
GROSS WEIGHT	LBS.	54527	54527	58000	56009
EMPTY WEIGHT - ESTIMATED -	LBS.	32651			
FUEL/OIL	GALS.	2350/130	2350/130	2727/151	2350/130
FIXED GUNS/AMMUNITION		NONE			
FLEXIBLE GUNS/AMMUNITION		6-.50 cal./2800 rds			
ENGINE POWER USED FOR PERFORMANCE		MILITARY	NORMAL	NORMAL	NORMAL
WING LOADING	LBS./SQ.FT.	54.5	54.5	58.0	56.0
POWER LOADING (1)	LBS./BHP.	14.4	15.2	16.1	15.6
V-MAX. SEA LEVEL.	KN	231	225	224	225
V-MAX./CRITICAL ALT.	KN/FT.	251/15600	245/15100	243/15100	244/15100
V-STALL GROSS WEIGHT (2)	KN	81.4	81.4	83.9	82.5
V-STALL WITHOUT FUEL (2)	KN	70.1	70.1	71.2	71.4
TIME-TO-CLIMB -10000FT-	MIN.	10.8	11.8	13.5	12.6
TIME-TO-CLIMB -20000FT-	MIN.	27.7	31.4	38.3	34.9
SERVICE CEILING	FT.	23200	22400	21100	21900
TAKE-OFF DISTANCE -CALM-	FT.		1760	2055	1900
TAKE-OFF DISTANCE -15 KN-	FT.		1235	1460	1340
TAKE-OFF DISTANCE -25 KN-	FT.		935	1115	1020
TAKE-OFF DISTANCE -50 FT. OBST.	FT.				
TAKE-OFF TIME	SECONDS				
RATE OF CLIMB -SL-	FT./MIN.	1120	1010	900	960
MAX. RANGE / V-AV. (3)	NMI./KN		2500/142	2830/145	2460/144
RANGE / V-AV. -60%NSP-(3)-	NMI./KN				
SEARCH RADIUS / V-AV.	NMI./KN		790/144	890/145	775/144
A.S.W. RADIUS / V-AV.	NMI./KN		660/144	740/145	
SCOUT RADIUS	N MI.				
COMBAT RADIUS	N MI.				
ENGINE / PROP. GEAR RATIO		W.A.C. R-3350-8 (16:7)			
ENGINE RATING BHP/RPM/ALT.	MILITARY	NORMAL		TAKE-OFF	
	2250/2600/8L-2800	2100/2400/SL-2300		2300/2800	
	1900/2600/7200-14000	1800/2400/6800-13600			
TANKAGE IN GALLONS		OIL	FUEL	OFFENSIVE ARMAMENT	
AUX. FIXED	PROTECTED	154	2350	Fuselage Bomb Bays: (4 bays)	
	UNPROTECTED			Bombs: 8-500#; 4-2000#; 4-1600# A.P.;	
	TOTAL - FIXED INTERNAL	154	2350	4-1600#G.P.	
	DROPPABLE			*Depth Bombs: 12-325#; 8-650#.	
	DROPPABLE - Protected - Bomb-bay, 4-250		1000	Mines : 8-1000#; 2-2000#.	
TOTAL	154	3350	Frag. Bombs: 12-100# Clusters		
				Torpedoes : 2-Mark 13-2; 2-Mark 13-1	
NOTE	① BHP AT MAX. CRIT. ALT.		*NOTE: 4-650# and 2-325# Depth Bombs may be carried in 2 bomb bays.		
	② STALL-WITH POWER				
	③ AT 1500' ALTITUDE		Columns 1 Thru 4: Bombardier and Bombardier's Compartment not included.		

Reissued 1 January 1947

DATE 1 JUNE 1944

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MODEL XP2V-1

FORM 15100 (Rev. 4-44)

AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		5	6		
	LOADING CONDITION	BOMBER 8-1000# BOMBS	FERRY 4 DROPTANKS		
	GROSS WEIGHT LBS.	58000	57033		
	EMPTY WEIGHT - ESTIMATED - LBS.	32884	32028		
	FUEL/OIL GALS.	2000/110	3350/154		
	FIXED GUNS/AMMUNITION	NONE			
	FLEXIBLE GUNS/AMMUNITION	6x50/2800	NONE		
	ENGINE POWER USED FOR PERFORMANCE	NORMAL	NORMAL		
	WING LOADING LBS./SQ.FT.	58.0	57.0		
	POWER LOADING ① LBS./BHP	16.1	15.9		
	V-MAX SEA LEVEL KY	222	226		
	V-MAX AIRPLANE CRIT. ALT. KY/PT	241/15100	244/15100		
	V-STALL GROSS WEIGHT ② KY	84.0	83.5		
	V-STALL WITHOUT FUEL ② KY	74.8	67.0		
	TIME-TO-CLIMB -10000FT- MIN.	13.5	13.0		
	TIME-TO-CLIMB -20000FT- MIN.	38.3	36.8		
	SERVICE CEILING FT.	21100	21500		
	TAKE-OFF DISTANCE -CALM- FT.	2065	1985		
	TAKE-OFF DISTANCE -15 K/L- FT.	1470	1405		
	TAKE-OFF DISTANCE -25KN- FT.	1120	1070		
	TAKE-OFF TIME SECONDS.				
	RATE OF CLIMB -SL- FT./MIN.	900	940		
	MAX. RANGE/V-AV. ③ NMI/KY	1995/145	3655/143		
	SEARCH RADIUS NMI/KR	630/145			
	SCOUT RADIUS NMI.				
	COMBAT RADIUS NMI.				

PERFORMANCE IS BASED ON- CALCULATIONS

RANGE & RADIUS ARE BASED ON ENGINE REQUIREMENTS

FUEL CONSUMPTION DATA INCREASED

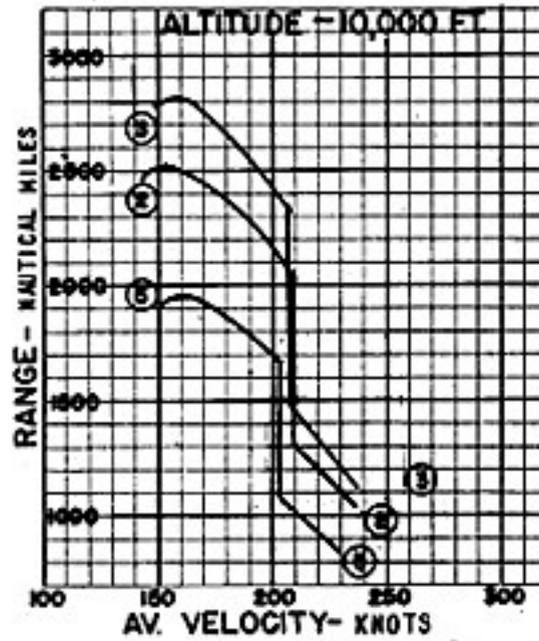
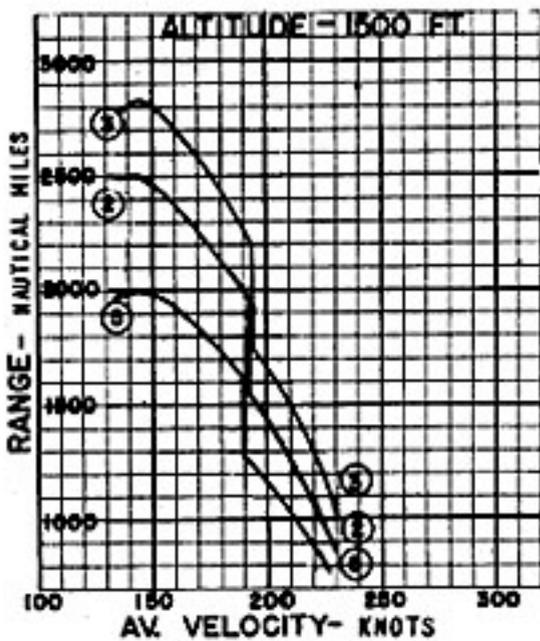
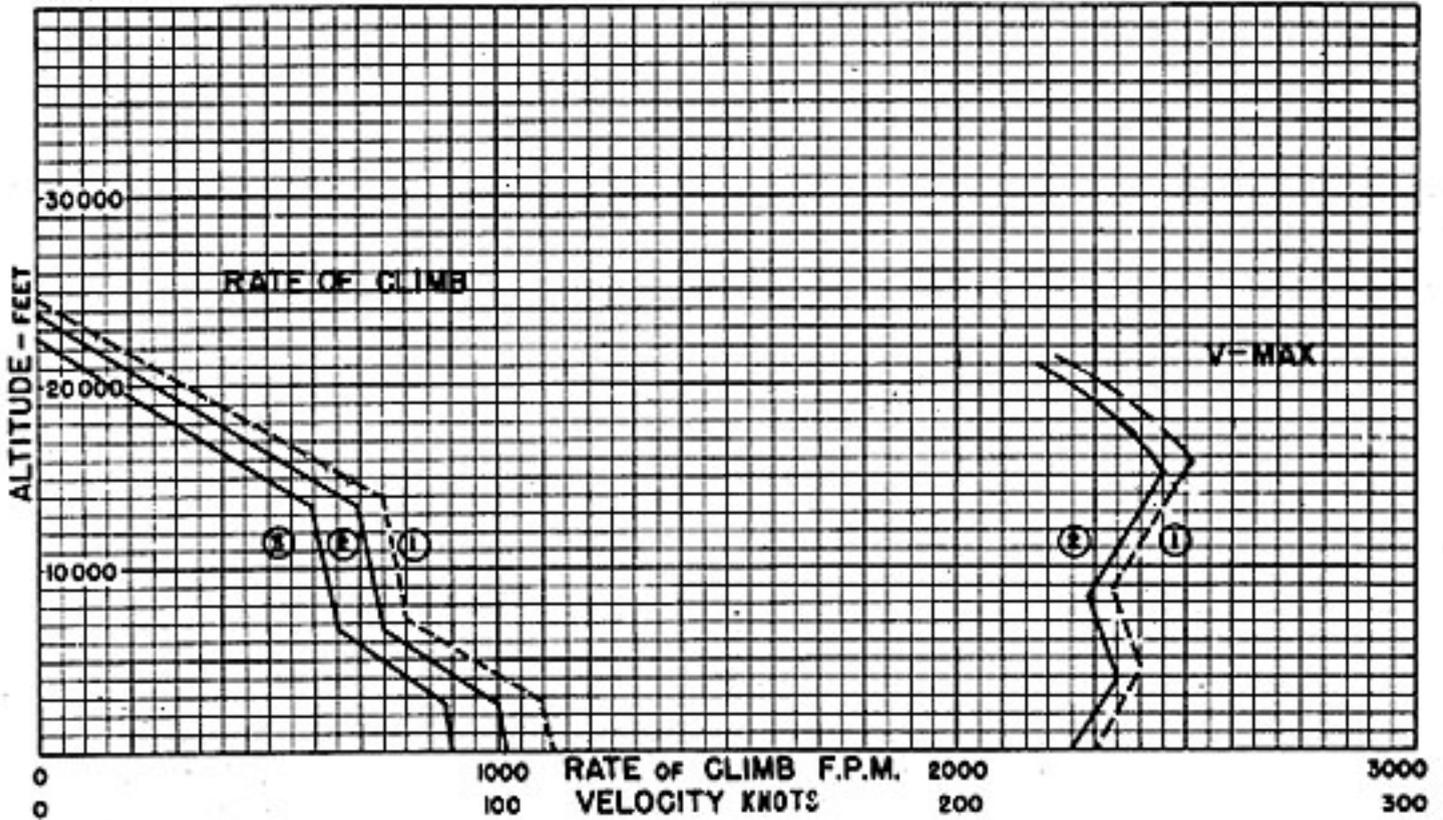
BY 15 PERCENT TO CONFORM WITH PAST EXPERIENCE.

NOTE: (Columns 5 and 6) Gross Weight includes Bombardier, Bombardier's Compartment and External Blister.

Installation of AN/APA-5 Radar Bomb Sight in lieu of Mark 15-5 Bomb Sight does not require Bombardier's External Blister and reduces Gross Weight for Bombing Condition by 118 lbs.

PRACTICAL SEARCH RADIUS: 40% Maximum range at V for maximum range at 1500 ft. with 20% of initial fuel load as allowance for warm-up, take-off, climb, and reserve. Bombs, torpedoes, radar, and all droppable tanks are carried the entire distance.

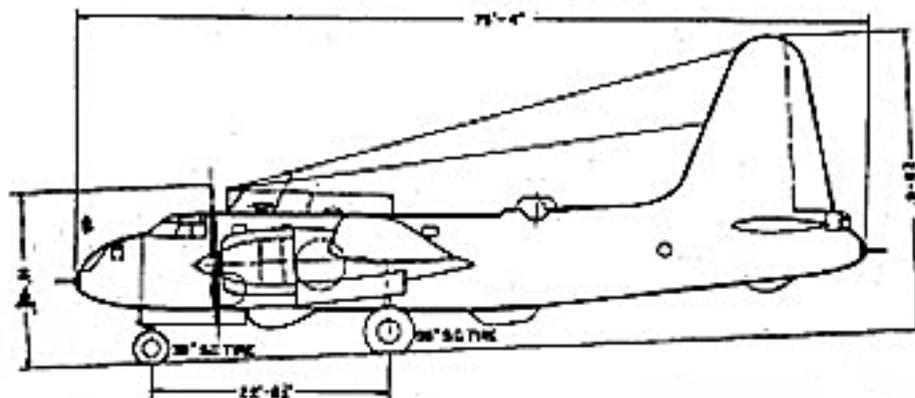
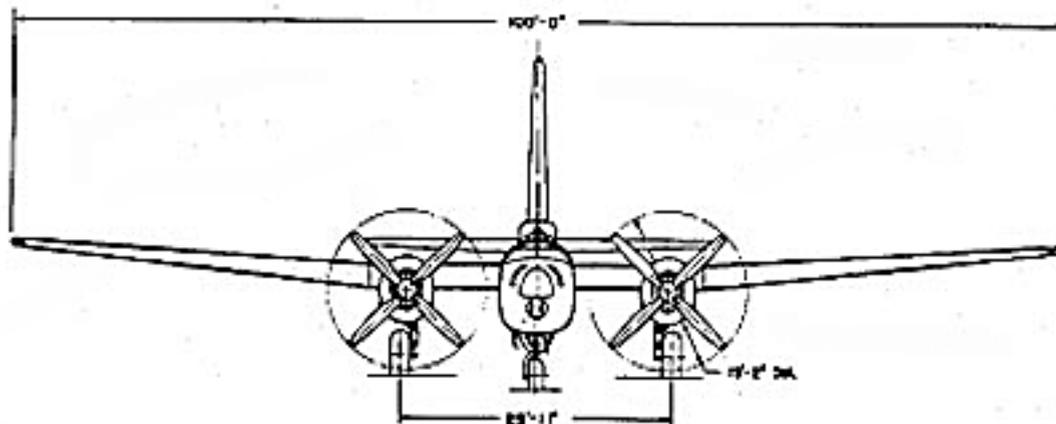
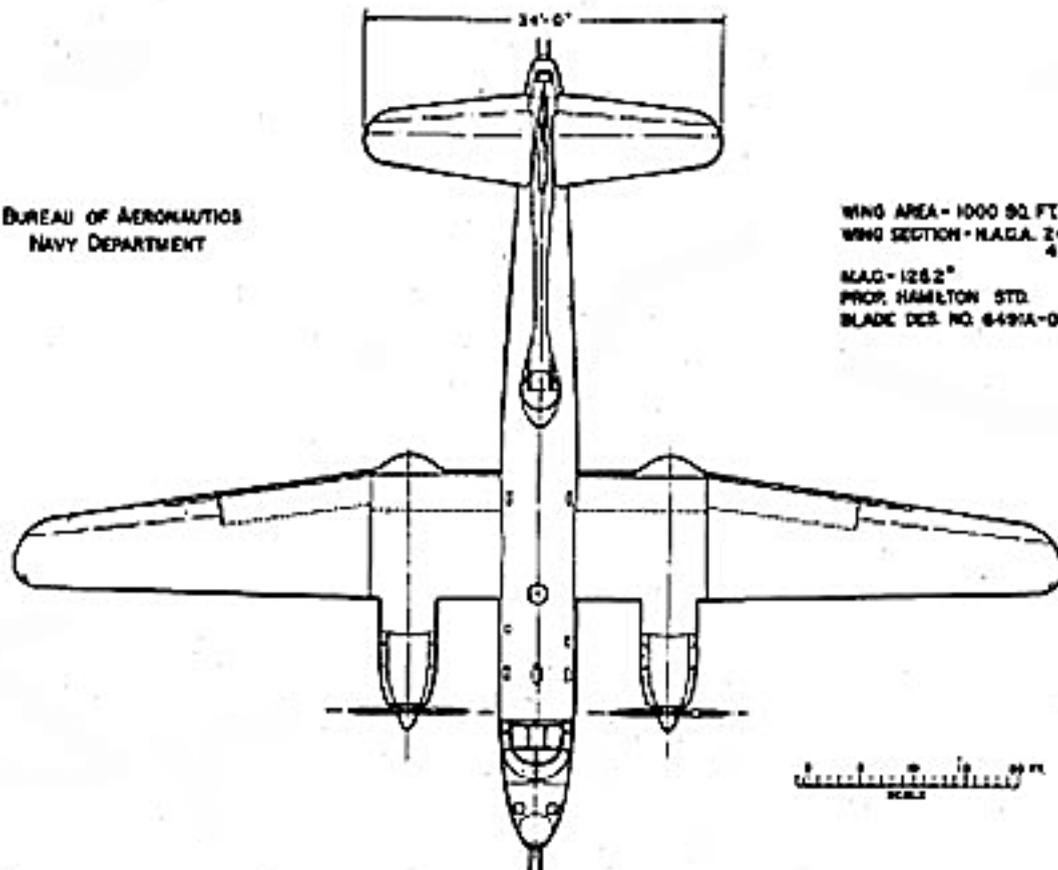
PRACTICAL A.S.W. RADIUS: 33.3% Maximum range at V for maximum range at 1500 ft. with 20% of initial fuel load as allowance for warm-up, take-off, climb, and reserve. Bombs, torpedoes, radar, and all droppable tanks are carried the entire distance.



○ LOADING CONDITION COLUMN NUMBER

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA - 1000 SQ. FT.
WING SECTION - NACA 2418
4410.5
MAC - 128.2"
PROP. HAMILTON STD.
BLADE DES. NO. 6-491A-0



MODEL XP2V-1

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

-  BULLET RESISTANT GLASS ARMOR PLATE
-  DEFLECTION PLATE
-  SELF-SEALING TANKS

PROTECTION

1	BOW GUNNER	145 LBS
2	PILOT & CO PILOT FWD	107 LBS
3	PILOT & CO PILOT AFT	206 LBS
4	RADIO OPERATOR	180 LBS
5	TURRET	100 LBS
6	BOMBARDIER	130 LBS
7	TAIL GUNNER	226 LBS
8	SELF-SEALING CELLS	1990 LBS

