

COLUMN NUMBER				2		3		4	
LOADING CONDITION		COMBAT *		COMBAT *		COMBAT *		BOMBER 1-1000# One 150 gal. Tank External	
GROSS WEIGHT	LBS.	12583		12583		12583		14775	
EMPTY WEIGHT - Actual -	LBS.	9239							
FUEL/OIL	GALS.	250/18		250/18		250/18		400/19	
FIXED GUNS/AMMUNITION		6-.50 cal./2400 rds.							
FLEXIBLE GUNS/AMMUNITION		None							
ENGINE POWER USED FOR PERFORMANCE		WAR EMERGENCY		MILITARY		NORMAL		NORMAL	
WING LOADING	LBS./SQ.FT.	37.6		37.6		37.6		44.2	
POWER LOADING ①	LBS./BHP.	6.4		7.6		8.1		9.5	
V-MAX. SEA LEVEL	MPH.	343		322		308		268	
V-MAX./CRITICAL ALT.	MPH./FT.	384/17400		379/23100		374/23500		321/23000	
V-STALL GROSS WEIGHT ②	MPH.	84.7		84.7		84.7		93.5	
V-STALL WITHOUT FUEL ②	MPH.	79.5		79.5		79.5		85.6	
TIME-TO-CLIMB -10000FT-	MIN.	3.4		4.2		4.7		6.2	
TIME-TO-CLIMB -20000FT-	MIN.	7.7		8.9		9.8		13.4	
SERVICE CEILING	FT.	37100		37100		36400		33500	
TAKE-OFF DISTANCE -CALM-	FT.	752		752		752		1342	
TAKE-OFF DISTANCE -15 KN-	FT.	500		500		500		947	
TAKE-OFF DISTANCE -25 KN-	FT.	359		359		359		716	
TAKE-OFF DISTANCE -50 FT. OBST.	FT.								
TAKE-OFF TIME	SECONDS								
RATE OF CLIMB -SL-	FT./MIN.	3210		2650		2300		1770	
MAX. RANGE / V-AV. ③	ST. MI. / MPH.					1110/163		1270/162	
RANGE / V-AV. -60%NSP-③-	ST. MI. / MPH.								
SEARCH RADIUS / V-AV. -20%R-	NMI. / KN.								
A.S.W. RADIUS / V-AV. -20%R-	NMI. / KN.								
SCOUT RADIUS	N MI.								
COMBAT RADIUS	N MI.					130		310	
ENGINE / PROP. GEAR RATIO		P & W R-2800-10W (2:1)							
ENGINE RATING BHP/RPM/ALT.	WAR EMERGENCY	MILITARY		NORMAL		TAKE-OFF			
	2250/2700/SL	2000/2700/SL-1700		1675/2550/SL-5500					
	2075/2700/1800	1755/2700/5400		1570/2550/7200		2000/2700			
	2135/2700/12400	1800/2700/15700		1625/2550/16750					
	1965/2700/14600	1640/2700/18100		1530/2550/18200					
	1975/2700/16900	1650/2700/21000		1550/2550/22000					
TANKAGE IN GALLONS		OIL	FUEL	OFFENSIVE ARMAMENT					
AUX. FIXED	PROTECTED	19	250	WINGS: (External) Bombs - 2-1000#, or 2-500# Rockets - 6-5" A.R.					
	UNPROTECTED								
	TOTAL - FIXED INTERNAL	19	250						
	DROPPABLE								
AUX.	DROPPABLE fuselage		150	FUSELAGE: (External) Torpedo - 1-MK13-1A, -2, or -3					
	TOTAL	19	400						
NOTE	STATUTE MILES USED-EXCEPT-RADIUS IS GIVEN IN NAUTICAL MILES & KNOTS			Note: Engine ratings are AEL ratings. These ratings do not conform to engine data obtained from P6F-5 flight test. The flight test data are used in performance calculations					
	① BHP AT MAX. CRIT. ALT.								
	② STALL - WITHOUT POWER								
③ AT 1500' ALTITUDE									

NAVAER-15108 (Rev. 9-44)

AIRPLANE CHARACTERISTICS & PERFORMANCE

BUREAU OF AERONAUTICS, NAVY DEPT.

COLUMN NUMBER		5	6	7
LOADING CONDITION		BOMBER 2-1000# One 150 gal. Tank External	TORPEDO 1-MK13-3	ROCKET 6-5"A.R. One 150 gal. Tank External
GROSS WEIGHT	LBS.	15783	14906	14281
EMPTY WEIGHT - Actual -	LBS.	9239		
FUEL/OIL	GALS.	400/19	250/18	400/19
FIXED GUNS/AMMUNITION		6-.50 cal./2400 rds.		
FLEXIBLE GUNS/AMMUNITION		None		
ENGINE POWER USED FOR PERFORMANCE		NORMAL	NORMAL	NORMAL
WING LOADING	LBS./SQ.FT.	47.2	44.6	42.7
POWER LOADING ①	LBS./BHP	10.2	9.6	9.2
V-MAX. SEA LEVEL	MPH.	253	272	273
V-MAX./ CRITICAL ALT.	MPH./ FT.	299/22700	328/23000	329/23000
V-STALL GROSS WEIGHT ②	MPH.	96.6	93.8	92.6
V-STALL WITHOUT FUEL ②	MPH.	88.9	89.0	84.4
TIME-TO-CLIMB -10000FT.-	MIN.	7.1	6.3	5.8
TIME-TO-CLIMB -20000FT.-	MIN.	15.6	13.7	12.5
SERVICE CEILING	FT.	31900	33500	34100
TAKE-OFF DISTANCE -CALM-	FT.	1642	1324	1279
TAKE-OFF DISTANCE -15 KN-	FT.	1171	936	906
TAKE-OFF DISTANCE -25KN-	FT.	898	703	684
TAKE-OFF DISTANCE -50 FT. OBST.	FT.			
TAKE-OFF DISTANCE	SECONDS			
RATE OF CLIMB -SL-	FT./MIN.	1570	1750	1880
MAX. RANGE / V-AV. ③	ST. MI. / MPH.	1100/163	780/168	1370/170
RANGE / V-AV. -60%NSP-③	ST. MI. / MPH.			
SEARCH RADIUS/V-AV. -20%R-	NMI./KN.			
A. S. W. RADIUS/V-AV. -20%R-	NMI./KN.			
SCOUT RADIUS	NMI.			
COMBAT RADIUS	NMI.	290	95	345

PERFORMANCE IS BASED ON - Flight Test

RANGE & RADIUS ARE BASED ON Engine Requirement

FUEL CONSUMPTION DATA INCREASED

BY 15 PERCENT TO CONFORM WITH PAST EXPERIENCE.

- * **COMBAT CONDITION:** Bomb, tank and radar racks aboard; rocket launchers not aboard. Installation of 6 MK5-1 rocket launchers reduces V max. at A.C.A. 5 mph. at War Emergency Power.
- CLEAN CONDITION:** Same as combat condition except bomb racks removed. V max. at S.L. = 347; V max./A.C.A. = 389/17500 at War Emergency Power.
- FERRY CONDITION:** Armor, Radar and Armament removed, Gross Weight = 12227 lb., 400 gals. fuel, Max. Range at 1500 ft. = 1840 st. mi. at 153 mph.
- ROCKET CONDITION:** Rockets suspended from MK5-1 launchers.
- A.D.I. fluid available for approximately 12 min. at War Emergency Power.
- AN/APS-4 Radar included in columns 5, 6 & 7. Addition of AN/APS-4 Radar to Combat Condition decreases V max. 17 mph. at A.C.A. at War Emergency Power.

AIRPLANE CHARACTERISTICS & PERFORMANCE

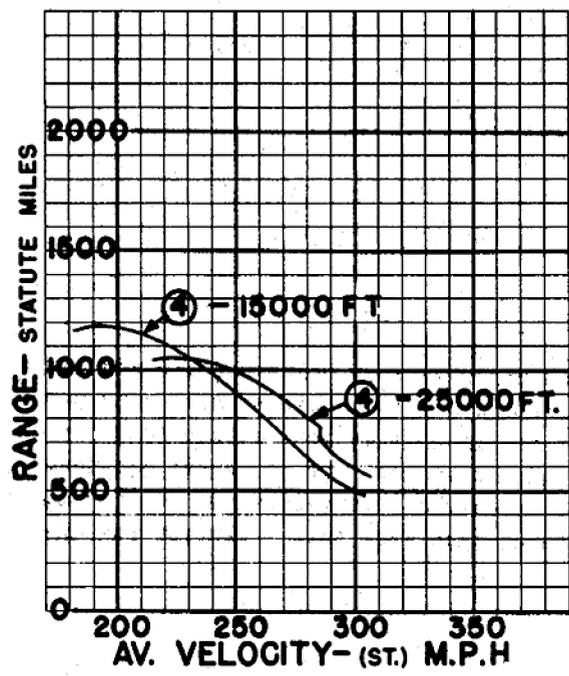
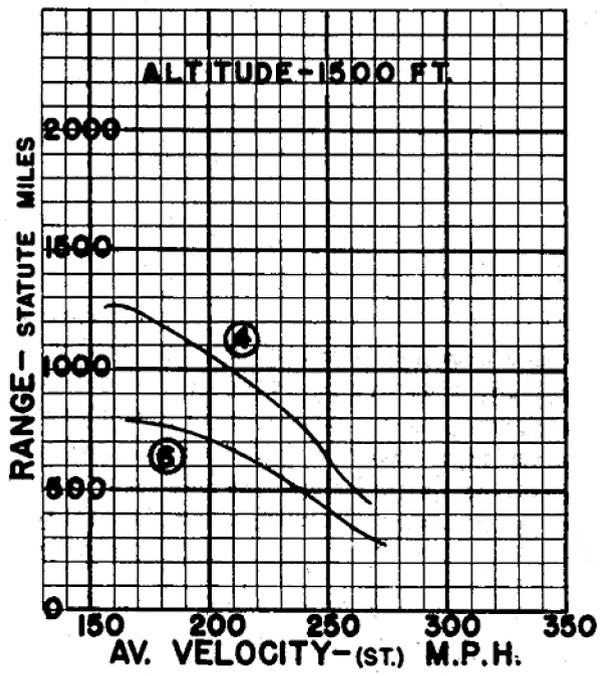
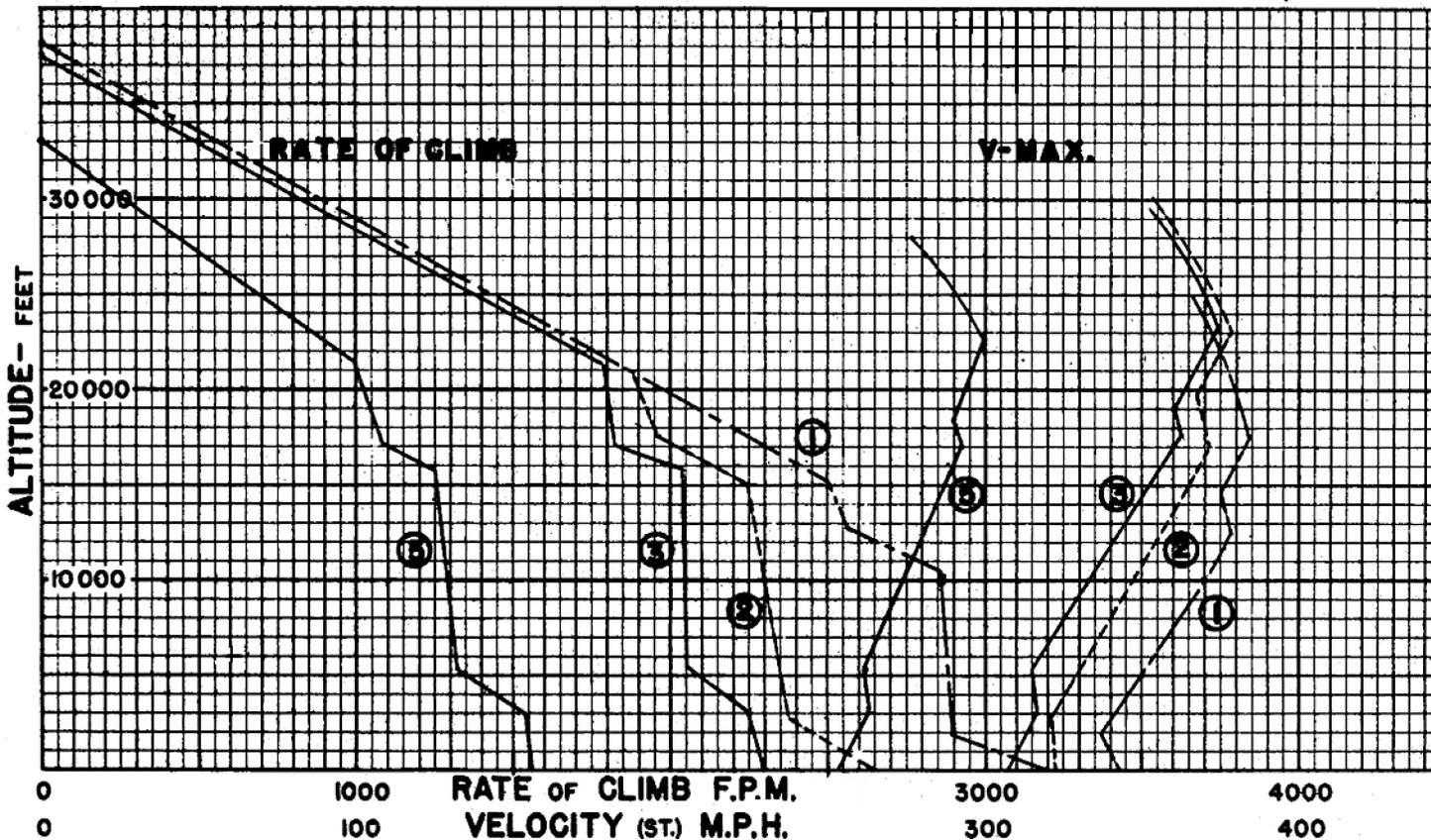
BUREAU OF AERONAUTICS, NAVY DEPT.

ALL CONDITIONS:

Practical Combat Radius is based on 20 min. warm-up and idling; 1 min. take-off; 20 min. rendezvous at 60% n.s.p. and auto-lean; climb to 15000 ft. at 60% n.s.p. and auto-lean; cruise-out at 15000 ft. at V for max. range and auto-lean; drop unprotected droppable tanks; 10 min. combat at 15000 ft. at war emergency power plus 10 min. at full military power; descend; cruise-back at 1500 ft. at 170 knots true air speed and auto-lean; 60 min. at V for max. range and auto-lean as allowance for rendezvous, landing and reserve. Radius includes distance covered in climb but not descent. Rockets fired during combat for condition 7.

DATE 1 NOVEMBER 1944

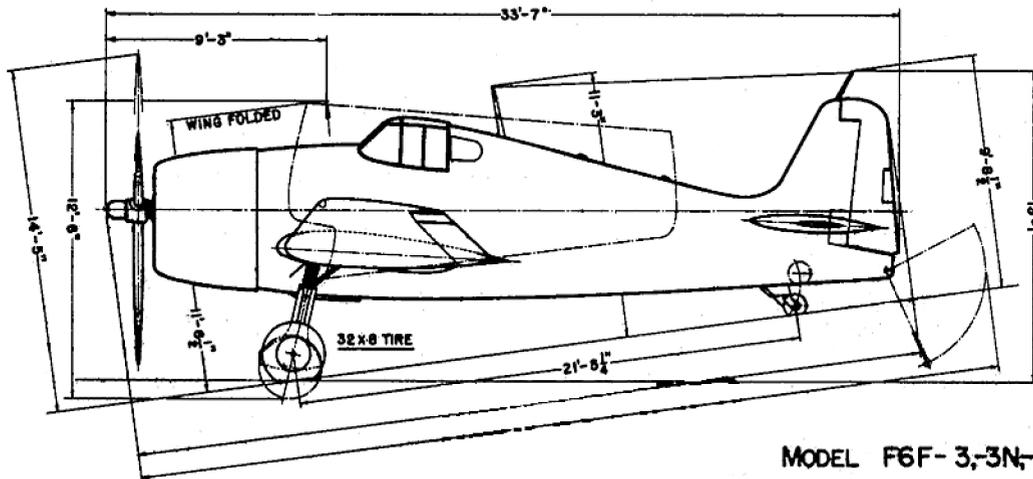
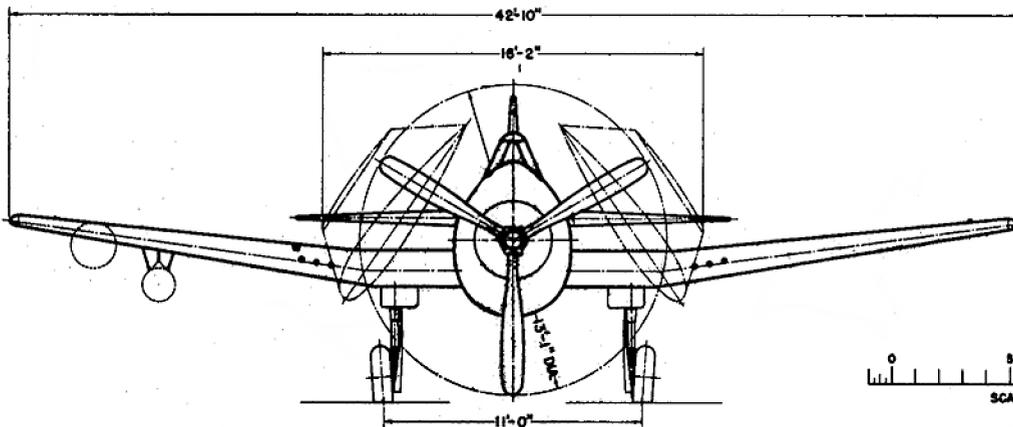
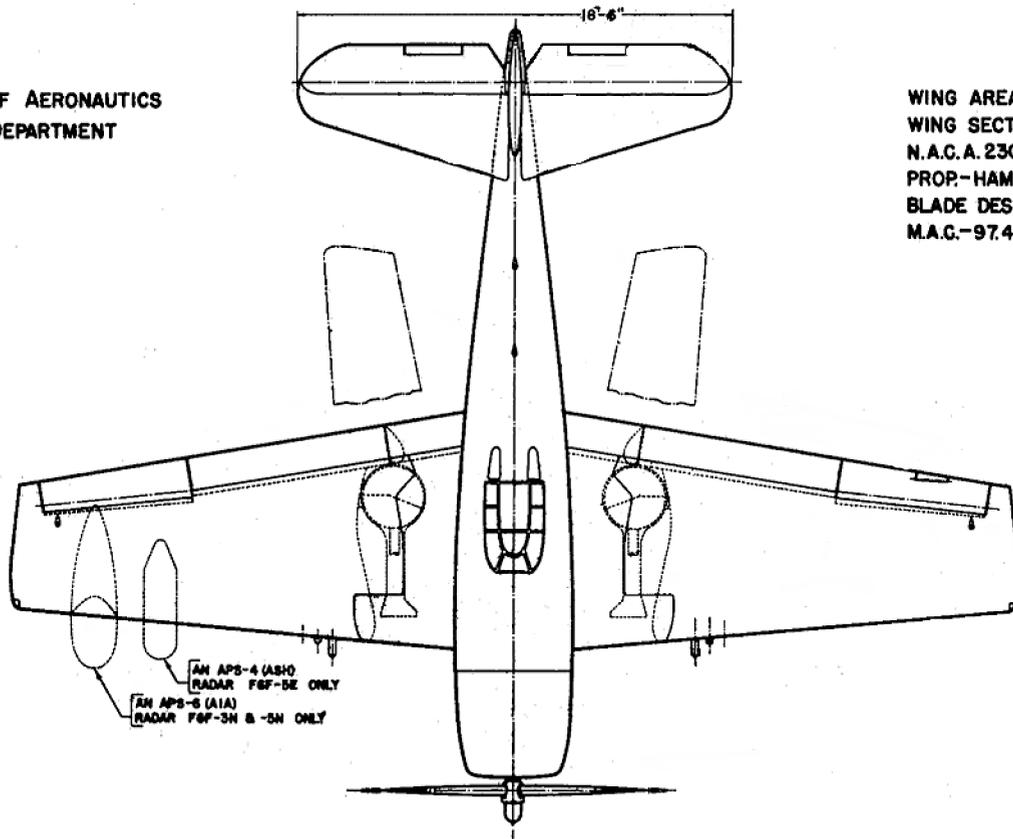
MODEL F6F-5E



○ LOADING CONDITION COLUMN NUMBER

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA - 334 SQ. FT.
WING SECTION -
N.A.C.A. 23015.6-23009
PROP - HAMILTON STD. C.S.
BLADE DESIGN NO. 6501A-0
M.A.C. - 97.4



MODEL F6F-3, 3N, 5, 5N & -5E

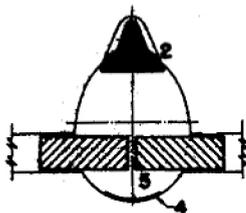
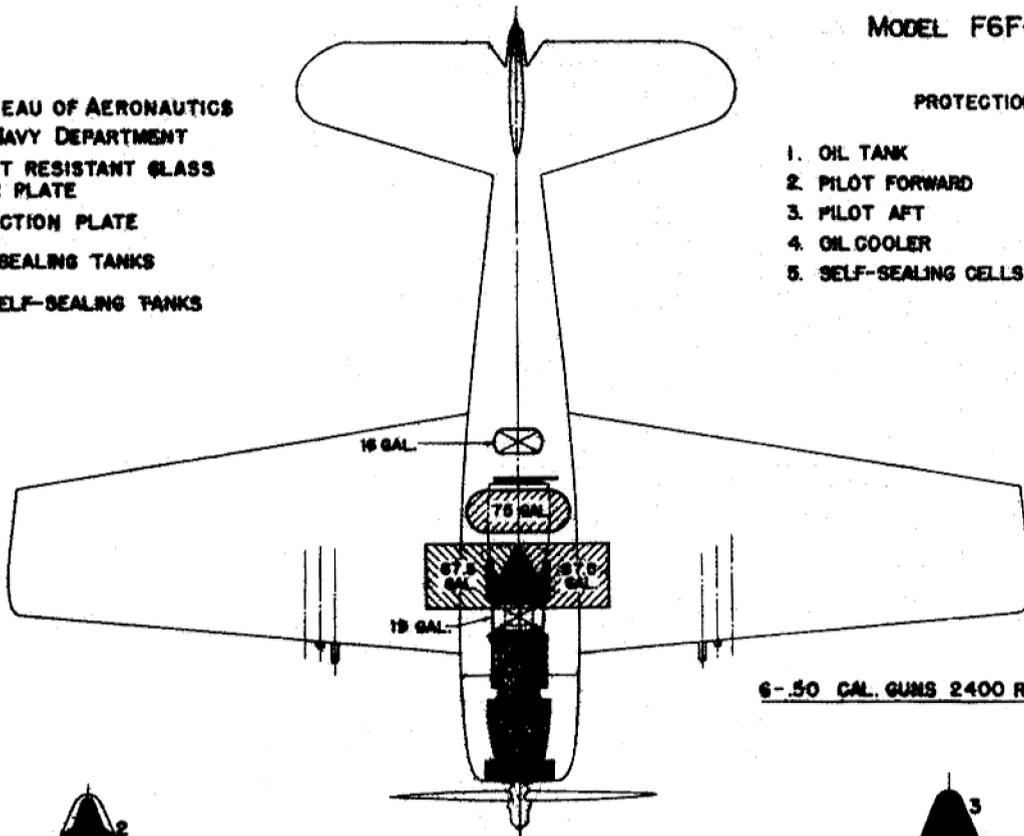
MODEL F6F-5, 5N & 5E

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

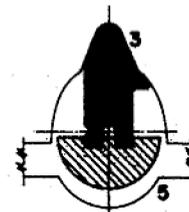
-  BULLET RESISTANT GLASS ARMOR PLATE
-  DEFLECTION PLATE
-  SELF-SEALING TANKS
-  NON SELF-SEALING TANKS

PROTECTION

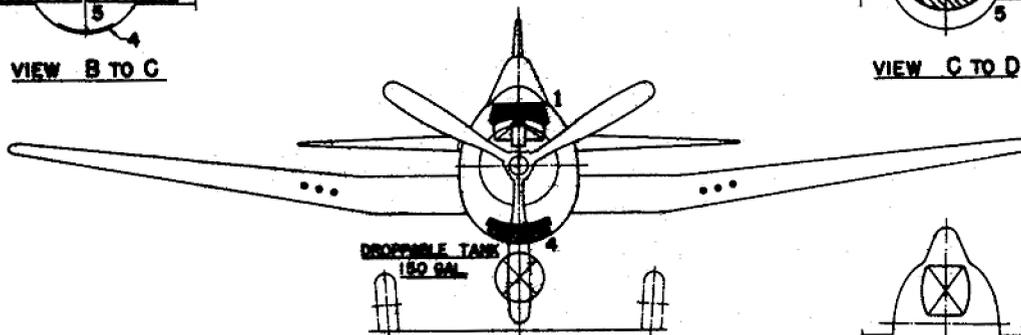
- | | |
|-----------------------|----------|
| 1. OIL TANK | 19 LBS. |
| 2. PILOT FORWARD | 605 LBS. |
| 3. PILOT AFT | 150 LBS. |
| 4. OIL COOLER | 28 LBS. |
| 5. SELF-SEALING CELLS | 244 LBS. |



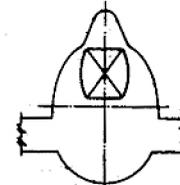
VIEW B TO C



VIEW C TO D



VIEW A TO B



VIEW D

