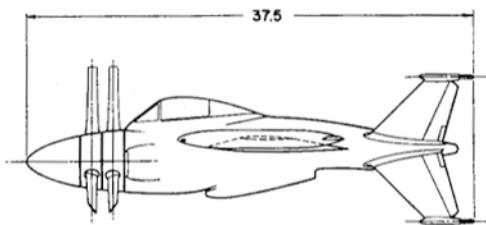
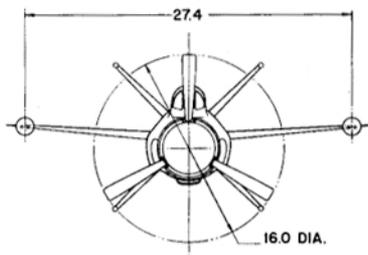
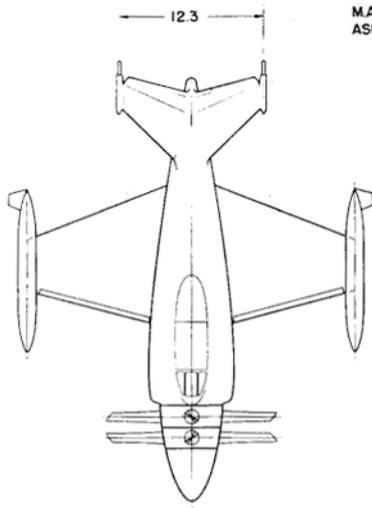


# STANDARD AIRCRAFT CHARACTERISTICS

## XFV - 1

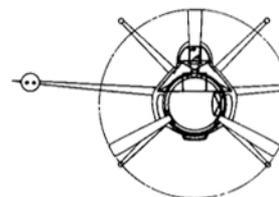
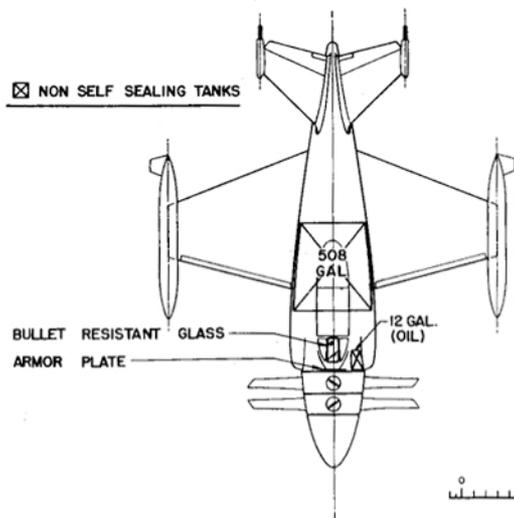
LOCKHEED

WING AREA 246 SQ. FT.  
 WING SECTION  
 NACA 64A206 (MOD.)  
 M.A.C. 116.5  
 ASPECT RATIO 3

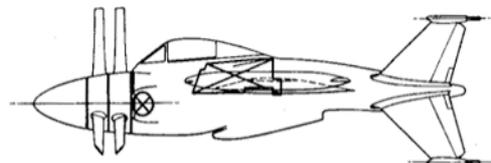


DESCRIPTIVE ARRANGEMENT

☒ NON SELF SEALING TANKS



ARMAMENT (PER AIRPLANE)  
 4-20 MM. AIRCRAFT GUNS  
 MK. 12 MOD. 0  
 600 ROUNDS 20 MM.  
 AMMO.  
 ALTERNATE:  
 48-2.75 IN. FFAR ROCKETS



ARMAMENT & TANKAGE

**POWER PLANT**

NO. & MODEL (1)Mod.XT40-A-16  
 MFR.....Allison  
 RED.GEAR RATIO.....13.8:1  
 PROP. MFR.....Curtis  
 PROP.DES.NO.....C(6L8)64S-A  
                                   /858/859  
 NO.BL./DIA.....6/16 ft.

**RATINGS**

	<u>Jet</u>		
	<u>Shp</u>	<u>Rpm</u>	<u>Thrust-lbs</u>
T.O.	6,825	15,700	1685
MIL	6,955	14,300	1363
NORMAL	5,775	14,300	1280

All ratings are static sea level.

SPEC. NO. 272-C

**ORDNANCE**

<u>GUNS</u>			
<u>No.</u>	<u>Size</u>	<u>Location</u>	<u>Rds.</u>
4	20mm	Tip pods, Fixed	600

**ROCKETS (ALTERNATE)**

<u>No.</u>	<u>Size</u>	<u>Location</u>
48	2.7mm	Tip pods, Fixed

**MISSION AND DESCRIPTION**

The principal mission of the airplane is to protect convoy vessels from air attack by enemy airc aft.

The airplane is a single seat fighter designed for vertical unassisted take-off from, and landings on, small platform areas of convoy vessels.

The pilot's compartment is pressurized and a Navy standard ejection seat is provided. The airplane has full span slats and cruciform tail.

The airplane features tail-first landing provisions on the empennage.

**DEVELOPMENT**

Estimated First Flight - - - - Aug. 1953

**DIMENSIONS**

<u>WING</u>	
AREA .....	246 sq. ft.
SPAN .....	27' -5"
M.A.C. ....	9' -8"
LENGTH.....	37' -6"

**WEIGHTS**

<u>Loadings</u>	<u>Lbs.</u>	<u>L.F.</u>
EMPTY.....	11,599	.....
BASIC.....	12,475	.....
DESIGN.....	15,002	7.5..
COMBAT.....	15,002	7.5..
MAX. T.O.....	16,221	.....
MAX. LAND....	14,088	.....

All weights are estimated.

**FUEL AND OIL**

<u>Gals.</u>	<u>No. Tanks</u>	<u>Location</u>
508	1	Fuselage
FUEL GRADE .....		100/130
FUEL SPEC.....		MIL-F-5572

**OIL**

CAPACITY (Gals).....	12
SPEC.....	MIL-L-7808

**ELECTRONICS**

VHF RADIO.....	AN/ARC-1
DIRECTION FINDER...	AN/ARA-25
RADIO ALTIMETER...	AN/APN-22
IFF TRANSPONDER....	AN/APX-6
RADAR.....	AN/APN-250 KW-A1

## PERFORMANCE SUMMARY

TAKE-OFF LOADING CONDITION		(1) FIGHTER			
TAKE-OFF WEIGHT	lb.	16,221			
Fuel	lb.	3,048			
Payload	lb.	408			
Wing loading	lb./sq.ft.	66.0			
Stall speed - power-off	kn.	- - -			
Take-off run at S.L. - calm	ft.	0			
Take-off run at S.L. kn. wind	ft.	0			
Take-off to clear 50 ft. - calm	ft.	0			
Max. speed/altitude (A)	kn./ft.	504/15,000			
Rate of climb at S.L. (A)	fpm	10,820			
Time: S.L. to 20,000 ft.(A) & (B)	min.	2.9			
Time: S.L. to 30,000 ft.(A) & (B)	min.	5.1			
Service ceiling (100 fpm)	ft.	43,300			
Combat range	n.mi.	- - -			
Average cruising speed	kn.	- - -			
Cruising altitude(s)	ft.	- - -			
Combat radius	n.mi.	- - -			
Average cruising speed	kn.	- - -			
Loiter time	hr./alt.	1.17/35,000			
COMBAT LOADING CONDITION		(2) COMBAT			
COMBAT WEIGHT	lb.	15,002			
Engine power		Military			
Fuel	lb.	1,829			
Combat speed/combat altitude	kn./ft.	486/35,000			
Rate of climb/combat altitude	fpm/ft.	3,100/35,000			
Combat ceiling (500 fpm)	ft.	43,600			
Rate of climb at S.L.	fpm	11,840			
Max. speed at S.L.	kn.	488			
Max. speed/altitude	kn./ft.	504/15,000			
LANDING WEIGHT	lb.	13,529			
Fuel	lb.	356			
Stall speed - power-off	kn.	- - -			
Stall speed - with approach power	kn.	- - -			

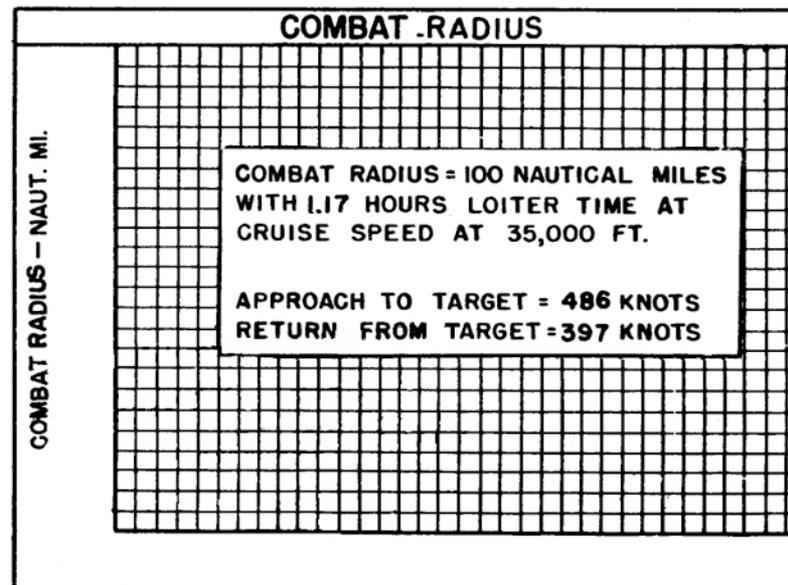
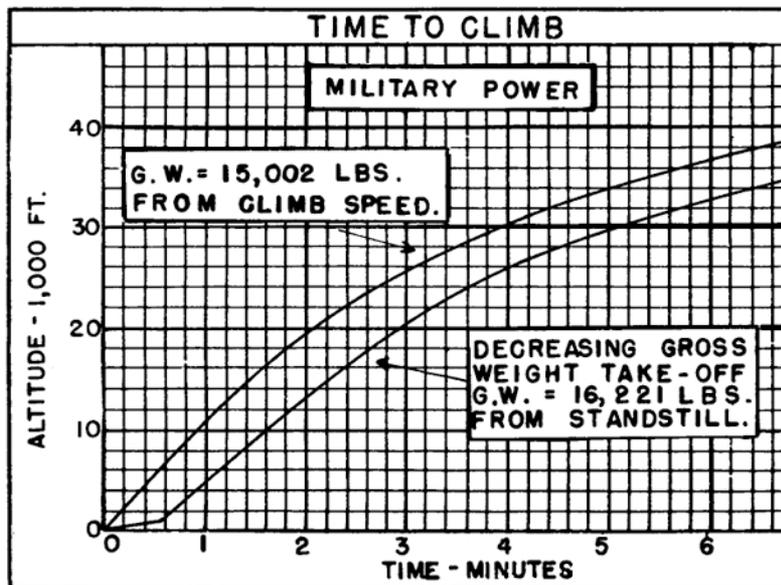
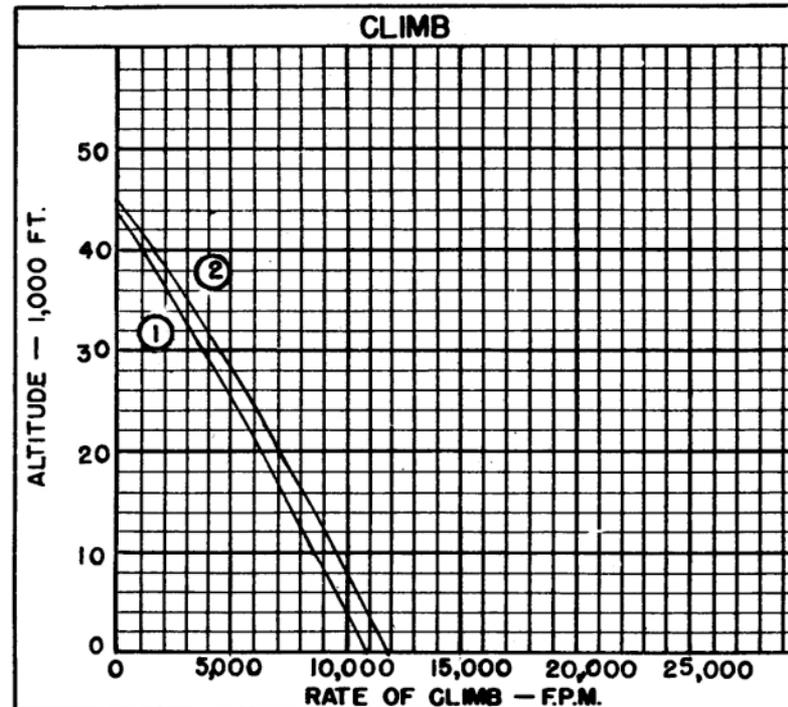
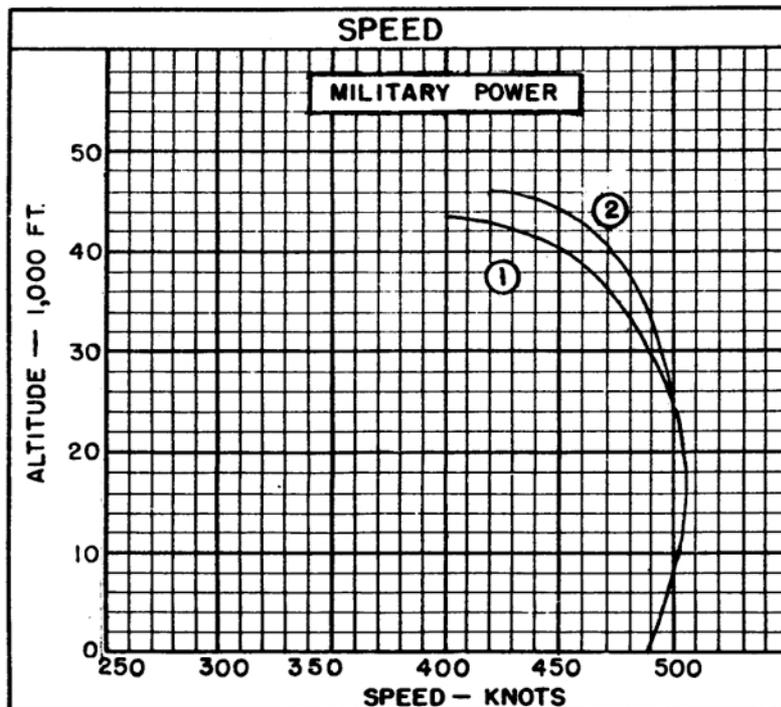
## NOTES

(A) Military Power.

(B) Time to climb from a standstill. Includes take-off and transition time.

Range and radius are based on engine manufacturer's fuel consumption data increased 5%.

Performance basis: Calculated data based on wind tunnel test.



Standard Aircraft Characteristics NAVAER 1335E (REV. 2-50)

# NOTES

## COMBAT MISSION

WARM-UP & TAKE-OFF: 5 minutes at military power.  
CLIMB: to 35,000 ft. at military power.  
LOITER: at 35,000 ft. at speed for max. endurance for 1.17 hours.  
FLY-OUT: 100 nautical miles at 35,000 ft. at military power.  
COMBAT: 3 minutes at 35,000 ft. at military power.  
CRUISE BACK: at 35,000 ft. at speed for long range.  
APPROACH & LANDING: 5 minutes at military power.