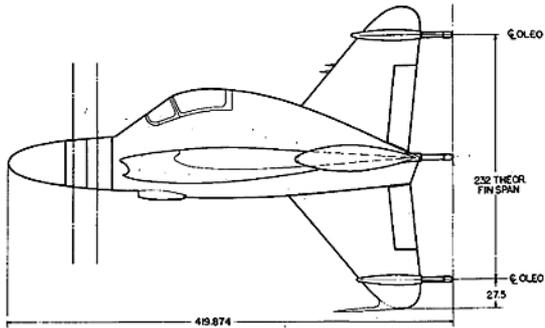
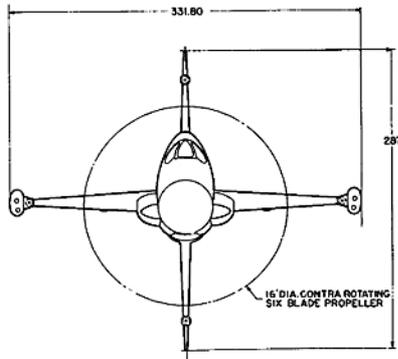
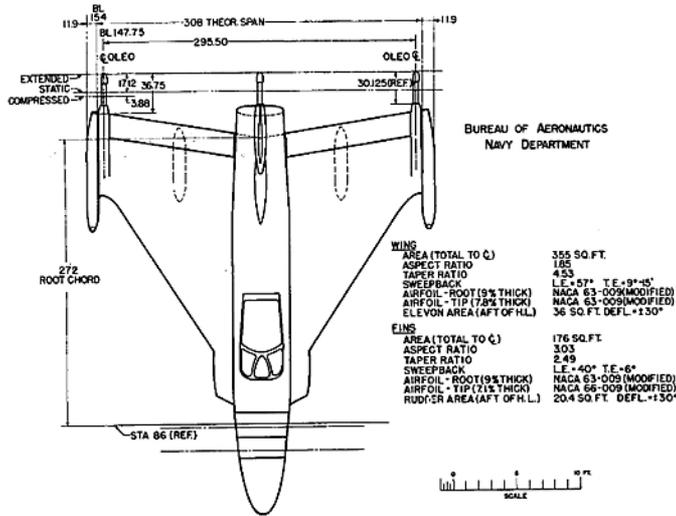


# STANDARD AIRCRAFT CHARACTERISTICS

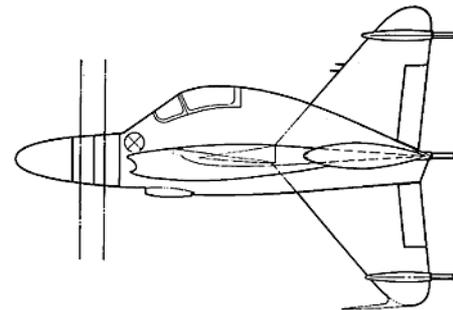
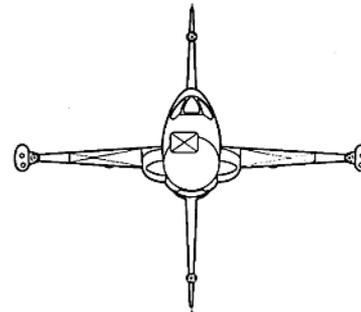
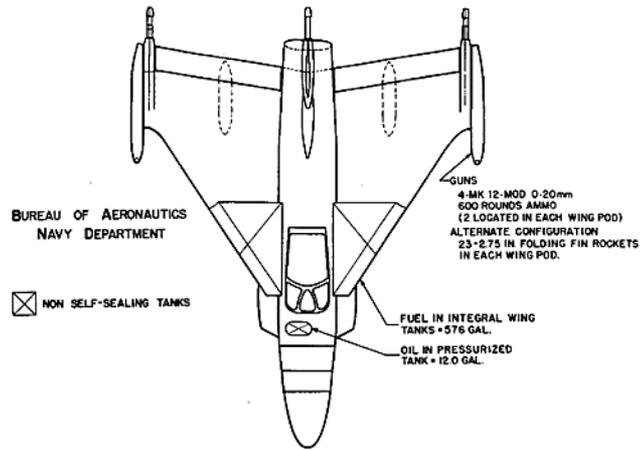
## XFY-1

CONVAIR

Standard Aircraft Characteristics NAVAER 1335A (REV. 1-49)



DESCRIPTIVE ARRANGEMENT



ARMAMENT & TANKAGE

**POWER PLANT**

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

**RATINGS**

	Jet
Shp @ Rpm	Thrust-lbs
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****GUNS**

No.	Size	Location	Rds
4	20 mm	Wing Pod	600

**\* ROCKETS**

No.	Size	
46	2.75	folding fin rockets.

\*Alternate to guns.

**FIRE CONTROL**

ACS AERO -11A

**MISSION AND DESCRIPTION**

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

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 pilot and seat may be rotated through 45 degrees for vision while in the vertical attitude.

The airplane has a modified delta wing and both an upper and lower vertical tail surface, of modified delta configuration. The control system is entirely power operated.

Alighting gear is provided on the tips of the wing and vertical tail.

**DEVELOPMENT**

First flight.....July 1953

**DIMENSIONS**

WING AREA	.....355 sq. ft.
SPAN	.....27' -8"
M.A.C.	.....15' -9"
SWEEP BACK (L.E.)	.....57°
LENGTH	.....35'

**WEIGHTS**

Loading	Lbs	L.F.
EMPTY	.....11,742	.....
BASIC	.....12,660	.....
DESIGN	.....15,020	.....7.5
COMBAT	.....14,012	.....7.5
MAX.T.O.	.....16,250	.....
MAX.LAND	.....14,845	.....

All weights are estimated.

**FUEL AND OIL**

Gals.	No. Tanks	Location
576	2	Wings
FUEL GRADE	.....100/130	
FUEL SPEC	.... MIL-F-5572	

**OIL**

CAPACITY (Gals.)	.....12.0
SPEC	.....MIL-L-7808

**ELECTRONICS**

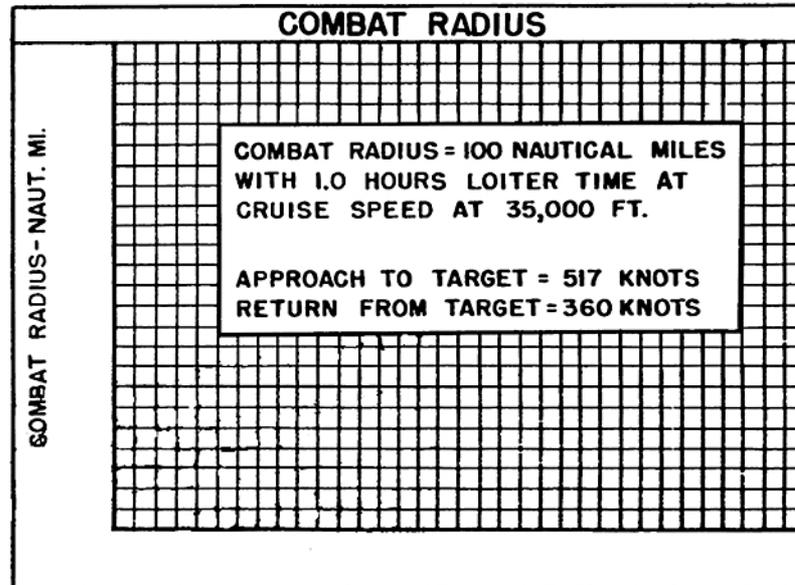
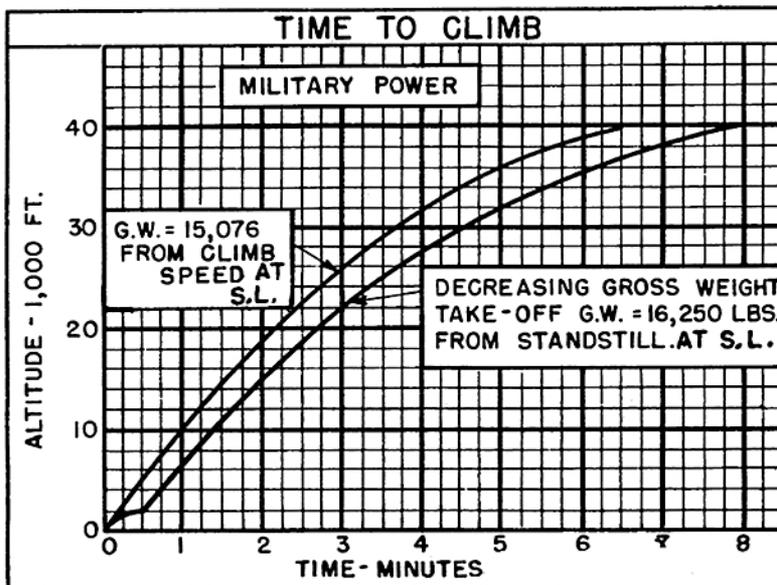
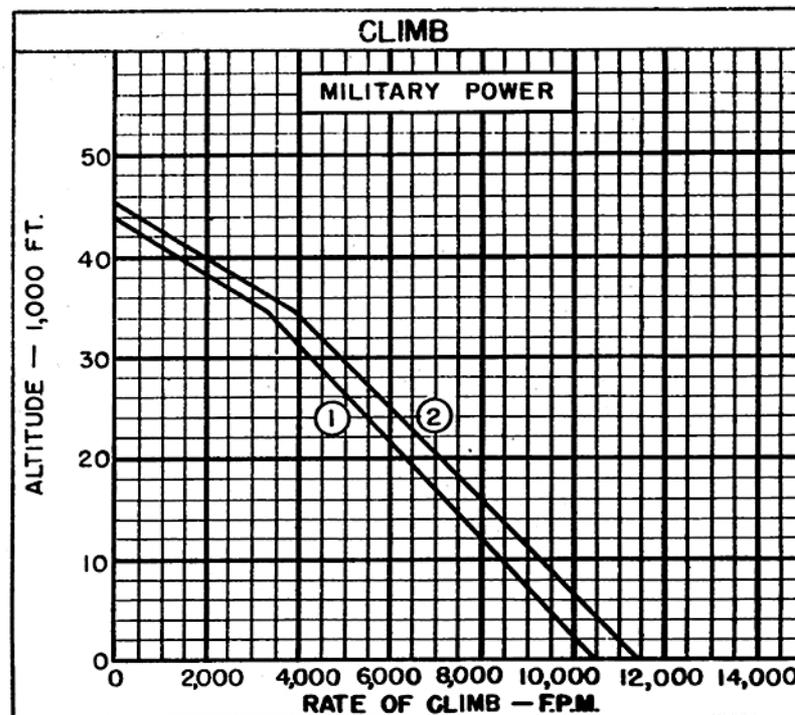
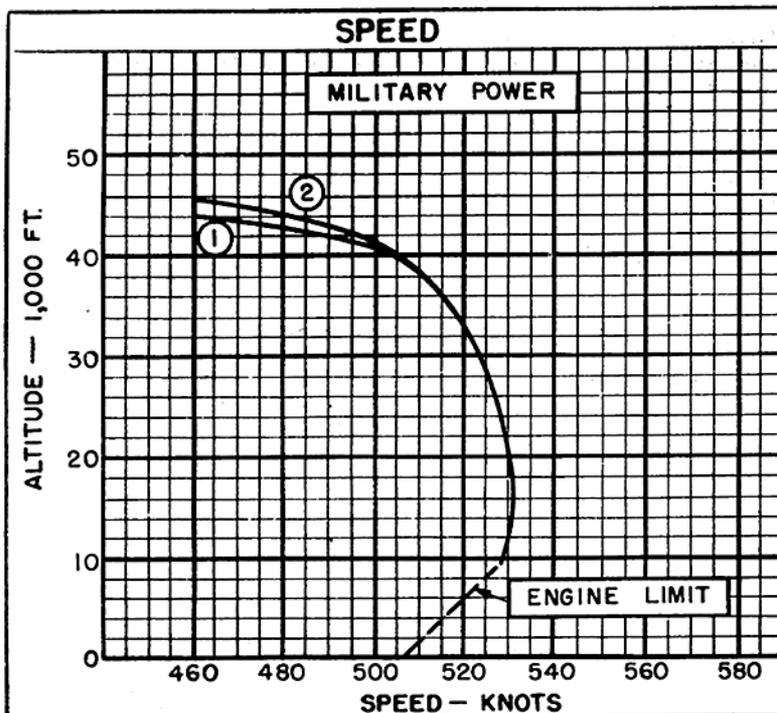
RADAR	..... N.A.A. 250-KW-A1
IFF	..... AN/APX-6
UHF	..... AN/ARC-27
HAY	..... AN/ARA-25
RADIO ALTIMETER	..... AN/APR-22

## PERFORMANCE SUMMARY

TAKE-OFF LOADING CONDITION		(1) Fighter				
TAKE-OFF WEIGHT	lb.	16,250				
Fuel	lb.	2,935				
Payload	lb.	408				
Wing loading	lb./sq.ft.	45.8				
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.	530/15,000				
Rate of climb at S.L.	(A) fpm	10,500				
Time: S.L. to 20,000 ft. (A) & (B) min.		2.7				
Time: S.L. to 30,000 ft. (A) & (B) min.		4.6				
Service ceiling (100 fpm)	(A) ft.	43,700				
Combat range	n.mi.	-----				
Average cruising speed	kn.	-----				
Cruising altitude(s)	ft.	-----				
Combat radius	n.mi.	-----				
Average cruising speed	kn.	-----				
Loiter Time	hr/alt.	1.0/35,000				
COMBAT LOADING CONDITION		(2) Clean				
COMBAT WEIGHT	lb.	15,076				
Engine power		Military				
Fuel	lb.	1,761				
Combat speed/combat altitude	kn./ft.	517/35,000				
Rate of climb/combat altitude	fpm/ft.	3850/35,000				
Combat ceiling (500 fpm)	ft.	44,000				
Rate of climb at S.L.	fpm	11,500				
Max. speed at S.L.	kn.	506				
Max. speed/altitude	kn./ft.	530/15,000				
LANDING WEIGHT	lb.	13,695				
Fuel	lb.	380				
Stall speed - power-off	kn.	-----				
Stall speed - with approach power	kn.	-----				

## NOTES

- (A) Military rated power  
 (B) Time to climb from a standstill  
 (C) Performance basis: calculated data based on wind tunnel test.  
 (D) Combat mission is based on engine specification fuel consumption increased by 5%.



○ LOADING CONDITION COLUMN NUMBER

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

# NOTES

## COMBAT MISSION

WARM-UP, TAKE-OFF, & ACCELERATION: 5 minutes at military power  
CLIMB: To 35,000 ft. at military power  
LOITER: At 35,000 ft. at velocity for maximum endurance  
FLY OUT: 100 nautical miles at 35,000 ft. at 517 military rated power.  
COMBAT: 3 minutes at 35,000 ft. at military power  
CRUISE BACK: At 360 knots at 35,000 ft. with one power unit inoperative  
APPROACH & LANDING: 5 minutes at military rated power