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### UNCLASSIFIED NAVAIR 00-110AF11-1

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SECTION VIII and NAVAIR 00-500A.

UNCLASSIFIED

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NAVAIR OO-110AF11-1





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## NAVAIR OO-110AF11-1



SERVICE

POWER PLANT	MISSION AND DESCRIPTION	WEIGHTS
NO. & MODEL(1) J65-W-18 MFRWright Aero TYPEAxial Flow LENGTH	The FlIF-l is a single-seat jet propelled day fighter designed for land and carrier operations. The primary mission is the destruction of enemy aircraft. The cockpit is pressurized for high altitude flight and a pilot ejection seat is provided. High lift devices are slotted flaps and leading edge slats. Speed brakes are located on the bottom of fuselage. Control about all three axes is achieved by irreversible hydraulically actuated surfaces. Two continuusly operating independent systems of equal power supply pressure to tandem cylinders. Longitudinal control is effected by an all-movable stabilizer in flaps-up configuration and	LOADING:   LES.   L.F.     EMPTY.   13,307.     BASIC.   13,810.     DESIGN.   18,375.     COMBAT.   18,375.     (Cat.)   23,459.     (Arrest)   15,715.     All Weights are Actual.   15,715.
<u>LBS.</u> <u>RPM</u> <u>ALT.</u> MAX. 10,500 8,300 S.S.L. T.O. & MIL. 7,450 8,300 S.S.L.	augmented by a geared elevator when flaps are down. Lateral control is provided by flaperons, while a conventional rudder is used for directional control. Wing folding is manual. The engine may be serviced	
NORMAL 6,470 8,030 max. S.S.L.	or removed by removal of tail section of fuselage.	FUEL AND OIL
	A short nose boom is provided for in-flight refueling.	No. Tanks Total Gals. Location
SPEC. NO. N-927-B	DEVELOPMENT	2   722   Fuselage     4   59   Fus.(Cheek)     1   50   Vert. Tail     2   192   Wings     Fuel Grade   JP-4     Fuel Specapplicable.MIL-F-5624
ORDNANCE     UHF COMMUN.   AN/ARC-27A     UHF.   AN/ARA-25     UHF.   AN/ARR-40     UHF NAV*.   AN/ARR-40     YHF NAV*.   AN/ARR-40     VIDEO CODER.   AN/APA-89     RANGING RADAR**.   AN/APG-30A	First Flight	OIL CAPACITY (Gals.)4.36 SPECapplicable.MIL-L-7808
*Provision for AN/ARN-21 as alternate. **Provision for AN/APS-67 as alternate	DIMENSIONS	ELECTRONICS
A/C #45 and subsequent.	WING AREA	GUNS   No. Size Location Rds.   4 20mm Fuselage 500   FIRE CONTROL RANGING RADARAN/APG-34   AFCSMk-16, MOD.: EXTERNAL STORES   Provisions: (1) Sidewinder (2) 150 gal. drop tank (CFE)   (3) Aero 7A. Rocket Package (4) Aero 6A. Rocket Package





#### NAVAIR OO-110AF11-1

		PERFORM	ANCE SUMMAI	RY		
TAKE-OFF LOADING CONDITION		(1) GENERAL PURPOSE FIGHTER GUNS + FULL INTERNAL FUEL	(3) GENERAL PURPOSE 2-SIDEWINDERS + GUNS 2-150 GAL. DROP TANKS	(5) GENERAL PURPOSE FIGHTER + 4 SIDEWINDERS + GUNS		
TAKE-OFF WEIGHT	1b.	21,035	23,899	21,915		
Fuel	16.	6,650	6,650/1,950	6,650		
Fayload	1b.	3:00	610	920		
Wing loading 1b	./sq.ft.	84.14	95.6	87.66		
Stall speeu - power-off	kn.	124.5	132.8	127.1		
Take-off run at S.L calm	ft.	4,260	5,750	4,700		
Take-off run at S.L. 25 kn. wind	ft.	3,100	3,980	3,300		
Take-off to clear 50 ft calm	ft.	5,600	7,200	6,180		
Max. speed/altitude (A)	kn./ft.	588/18,000	542/26,000	551/25,000	· · · · · · · · · · · · · · · · · · ·	
Rate of climb at S.L. (A)	fpm.	5,130	3,700	4,050		
Time: S.L. to 20,000 ft. (A)	min.	4.7	7.2	6.0		
Time: S.L. to 30,000 ft. (A)	min.	8.1	13.7	11.0		
Service ceiling (100 fpm) (A) (E)	ft.	41,900	35,000	37,700		
Combat range	n.mi.	1,108	1,146	784		
Average cruising speed	kn.	502	466	454		2 
Cruising altitude(s)	ft.	38,000/41,800	25,500/31,100	30,000/32,000		
Combat radius/Mission Time	.mi./hr.	310/1.57	420/2.11	250/1.41		
Average cruising speed	kn.	504	476	473		
CAP - Loiter Altitude/Loiter Time/Mission (B) Ft. (B) Ft. IFR - Radiua/Mission Time (C) n	fine /hr./hr. .mi./hr.		28,500/1.08/1.85 690/3.76	28,000/.40/1.39		
COMBAT LOADING CONDITION		(2) CLEAN	(4) CLEAN + 2-SIDEWINDERS + 2-PYLONS	(6) CLEAN + 4-SIDEWINDERS	(7) CLEAN + 4-SIDEWINDER PYLONS	
COMBAT WEIGHT	1b.	18,375	20,195	19,255	18,635	
Engine power		Maximum	Maximum	Maximum	Maximum	1. S.
Fuel	1b.	3,990	5,160	3,990	3,990	
Combat speed/combat altitude	kn./ft.	632/35,000	591/35,000	585/35,000	612/35,000	
Rate of climb/combat altitude	fpm/ft.		6,200/35,000	6,000/35,000	7,400/35,000	
Combat ceiling (500 fpm) (E)	ft.	49,000	47,300	47,500	49,000	
Rate of climb at S.L.	fpm.	16,300	11,200	10,800	13,600	·
Max. speed at S.L.	kn.	654	641	630	650	
Max. speed/altitude	kn./ft.	654/S.L.	641/S.L.	· 630/S.L.	650/S.L.	
LANDING WEIGHT	lb.	15.275	15.732	15,550		
Fuel	1b.		1,307	1,205		
Stall speed - power-off (D)	kn.	106	107.5	106.9		
Stall speed - with approach power (D)	kn.	103.3	104.9	104.3		

(A) MILITARY RATED THRUST

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SERVICE

# NOTES

(D) MINIMUM CONTROL SPEED.

(B) COMBAT AIR PATROL (CAP) - 150 n. mi. radius

- (C) INFLIGHT REFUELING (IFR' Outbound only. Transfer 4,800 lb at 455 nautical miles out. Radius is reduced 26 nautical miles and refuel allowance is increased 5 minutes for each additional aircraft up to a total of 3 aircraft.
- (E) No. Provisions for Pilot Pressure Suit.

PERFORMANCE BASIS: Calculations.

RANGE AND RADIUS are based on engine specification fuel consumption increased by 5%.

Aircraft weights for the above data are for Contract No. 53-1013. Aircraft for Contract 55-187 have increased 244 lb. in the clean configuration.



NAVAIR OO-110AF11-1



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DECLASSING

SERVICE



ft.

Drop

Tanks

 $\Delta$  MISSION TIME

+.154 hrs.

+.170 hrs.

+.158 hrs.

+.152 hrs.

+ 56 n. mi.







(3) General purpose fighter - inflight refueling; 2 sidewinders + 2 150 gal. tanks.

37,000 ft

S.L

 $(\mathbf{1})$ 

3

3

LOADING CONDITION COLUMN NUMBER

LACLASSIFIED

+ 396 1b.

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