

CONFIDENTIAL

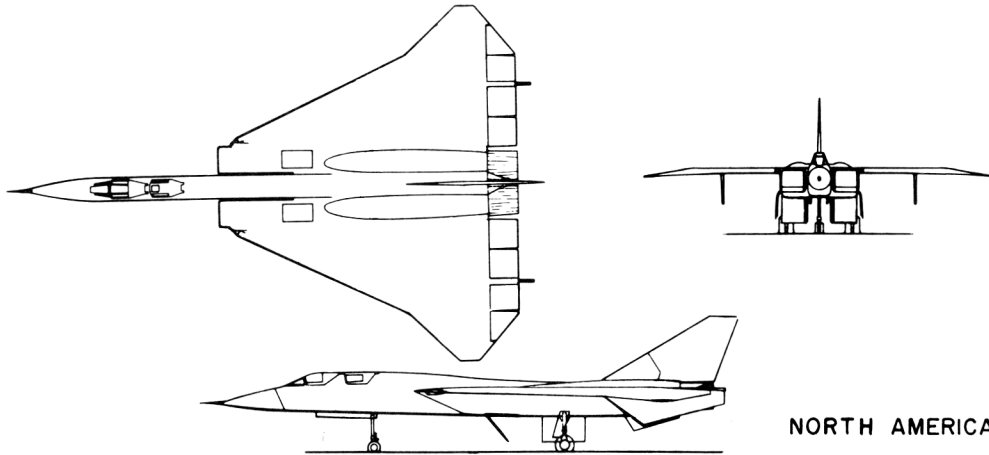
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Unclassified

*A-1
F-108A/char
MOCKUP*

Characteristics Summary

FIGHTER (INTERCEPTOR) F-108 A



NORTH AMERICAN

Wing Area 1865 sq ft Length 89.2 ft

Span 57.4 ft Height 22.1 ft

AVAILABILITY

PROCUREMENT

Number available

Number to be delivered in fiscal years

ACTIVE	RESERVE	TOTAL				

STATUS

1. Contract Date: Jun 57
2. Mock-Up Date: Jan 59 (est)
3. First Flight: Mar 61 (est)

Navy Equivalent: None

Mfr's Model: NA-257

POWER PLANT

(2) J93-GE-3R

General Electric

ENGINE RATINGS

S.L.S. LB - RPM - MIN

Max: 27,200 - 6825 - Cont

Mil: 18,500 - 6825 - Cont

Nor: 17,500 - 6825 - Cont

FEATURES

Crew 2
 Fire control system provides primary and auxiliary navigation, target search and detection and missile guidance.

Pressurized fuel system
 Nitrogen fuel system purging
 Liquid oxygen system
 Engine thrust reverser
 Encapsulated crew seats
 Variable geometry inlet ducts

Max fuel capacity: 7109 gal

ARMAMENT

Guns None

Bombs None

Rockets 3 x GAR-9

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

*30 Dec 70
C.R. Tomelton 3/2/67*

15 DEC 58

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F-108A

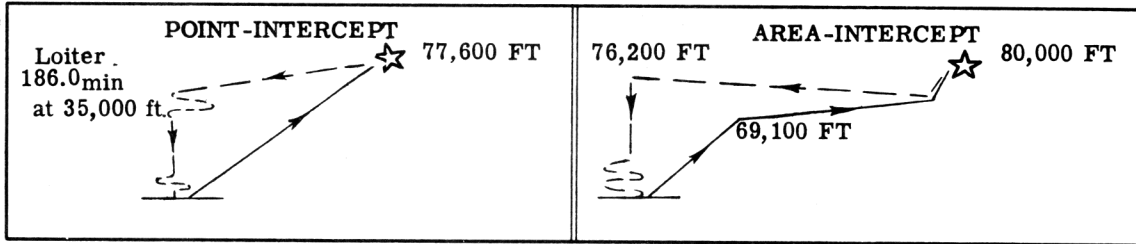
5th Ed Addendum Nr 10

DEC 15 1958

Black book

54WC-4983

Characteristics Summary Basic Mission F-108 A



P E R F O R M A N C E					
I N T E R C E P T		F E R R Y R A N G E		S P E E D	
POINT Total Mission Time for Interception at 77,600 ft. Equals 200.4 minutes		2184 naut. mi. with 7109 gal. fuel		POINT COMBAT 1721 knots at 77,600 ft. alt, max. power	
887 AREA Nautical Miles at 1721 Knots Average in 1.24 hours		at 550 knots avg. in 4.01 hours at 99,780 lb. T.O. wt.		MAX 1721 knots at 74,100 ft. alt, max. power	
BASIC 1526 knots at 50,000 ft. alt. max. power					
C L I M B		C E I L I N G		T A K E - O F F	
POINT 29,750 fpm. at S.L. Take-Off Weight, Max. Power		POINT 74,000 ft. at 100 fpm, Take-Off Weight, Max Power		ground run AREA 2800 ft. — ft. no assist assisted	
POINT 35,500 fpm. at S.L. Combat Wt., Max. Pow.		POINT 77,600 ft at 500 fpm, Combat Weight, Max. Power		over 50 ft. height AREA 4510 ft. — ft. no assist assisted	
L O A D		W E I G H T S		S T A L L I N G S P E E D	
Rockets 3 x GAR-9		Empty 50,544 lb. Combat 85,327 lb. Point 75,719 lb. Area		AREA 128.0 knots power-off, landing config- uration, take-off weight	
Fuel POINT AREA protected 0 % 0 % droppable 0 % 0 % external 0 % 0 %		Take-off 102,234 lb. limited by structure		T I M E T O C L I M B POINT 9.4 Min. ② S.L. to 77,600 Ft. Take-off Weight, Max. Power	

- N O T E S**
- Performance Basis:
(a) Estimated Data
 - From standing start: includes 1.2 minutes for take-off and acceleration to climb speed.
 - Revision Basis:
To reflect final configuration changes for January 1959 Mock-up.