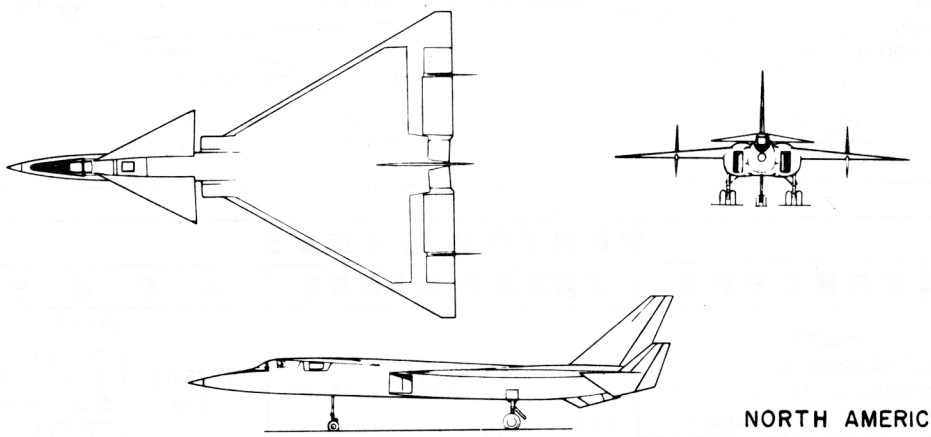
Black Book

CONFIDENTIAL SECRET

PRE-MOCKUP

Characteristics Summary

FIGHTER (INTERCEPTOR) . . . . . F-108 A



NORTH AMERICAN

Wing Area	1400 sq ft	Length	84.9 ft
Span	52.9 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-1

General Electric

ENGINE RATINGS

S.L.S. LB - RPM - MIN

Max: 24,800 - 6625 - *30

Mil: 16,900 - 6625 - Cont

Nor: 15,900 - 6625 = Cont

*Continuous afterburner power settings are available for supersonic cruise

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: 7100 gal

ARMAMENT

Guns . . . . . None

Bombs . . . . . None

Rockets . . . . 3 x GAR-9

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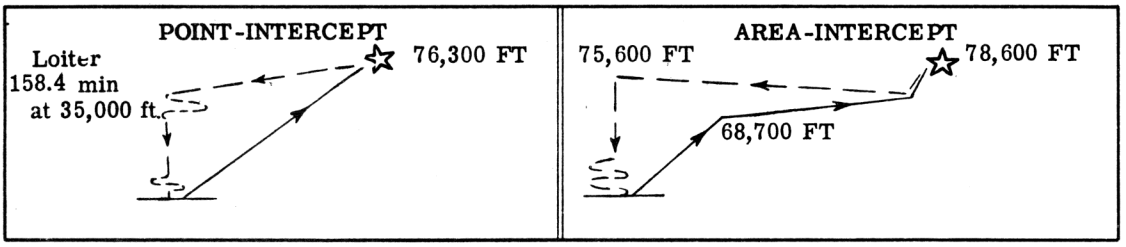
Characteristics Summary Basic Mission . . . . . F-108 A



PERFORMANCE

INTERCEPT

POINT
Total Mission Time for Interception at 76,300 ft.
Equals 174.6 minutes

AREA
877 Nautical Miles
at 1721 Knots Average
in 1.25 hours

FERRY RANGE

1984 naut. mi.
with 7100 gal. fuel
at 550 knots avg.
in 3.61 hours
at 97,240 lb. T.O. wt.

SPEED

POINT
COMBAT 1721 knots at 76,300 ft. alt, max. power
MAX 1721 knots at 72,800 ft. alt, max. power
BASIC 1525 knots at 50,000 ft. alt. max. power

CLIMB

POINT
24,100 fpm. at S.L.
Take-Off Weight, Max. Power

POINT
29,700 fpm. at S.L. Combat Wt., Max. Pow.

CEILING

POINT
72,550 ft. at 100 fpm,
Take-Off Weight, Max Power

POINT
76,300 ft at 500 fpm,
Combat Weight, Max. Power

TAKE-OFF

ground run
AREA
3100 ft. no assist | ——— ft. assisted

over 50 ft. height
AREA
5060 ft. no assist | ——— ft. assisted

LOAD

Rockets . . . . 3 x GAR-9

	POINT	AREA
Fuel	7100 gal.	7100 gal.
protected	0 %	0 %
droppable	0 %	0 %
external	0 %	0 %

WEIGHTS

Empty 48,193 lb.
Combat 81,765 lb. Point
73,369 lb. Area
Take-off 99,400 lb.
limited by structure

STALLING SPEED

AREA
131.5 knots
power-off, landing configuration, take-off weight

TIME TO CLIMB

POINT
11.2 Min.
S.L. to 76,300 Ft.
Take-off Weight, Max. Power

NOTES

1. Performance Basis:
   (a) Estimated data

2. Revision Basis:
   Initial Issue