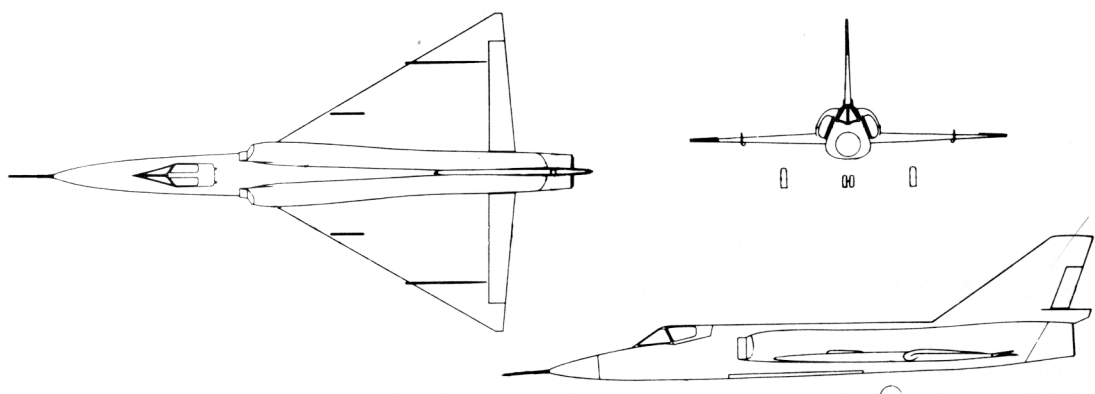


# Characteristics Summary

FIGHTER (INTERCEPTOR) . . . . . F-102B



CONSOLIDATED-VULTEE

Wing Area . . . . . 697.83 sq ft    Length (Including Nose Boom) . . . . . 70.7 ft  
 Span . . . . . 38.1 ft    Height . . . . . 20.3 ft

AVAILABILITY			PROCUREMENT			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

STATUS	
1. Similar to the F-102A except for the J75 engine in lieu of the J57, redesigned tail, addition of a fuselage fuel tank, armament changes, and a completely new electronic system.	2. First Flight(Prototype): Dec 56 (est)
Navy Equivalent: None <span style="float: right;">Mfr's Model: 8-23</span>	

POWER PLANT
(1) J75-P-9
Pratt & Whitney
ENGINE RATINGS
S.L.S. LB - † RPM - MIN
Max: *23,500-6940/8930-5
Mil: 15,500-6940/8930-30
Nor: 13,700-6470/8570-Cont
*With afterburner operating †First figure represents RPM of the low pressure spool while the second that of the high pressure spool.

FEATURES
Crew . . . . . 1
Delta Wing
Drag Chute
External Drop Tanks
Liquid Oxygen System
Interceptor System, Aircraft and Weapons Control, Type MA-1
Cambered Wing Leading Edge
Pressurized Fuel System
Max Fuel Capacity: 1700 gal

ARMAMENT
Guns . . . . . None
Bombs . . . . . None
Rockets .. 1 x MB-1 (A-T-A)
4 x YGAR-3
or
4 x YGAR-4
or
2 x YGAR-3
2 x YGAR-4

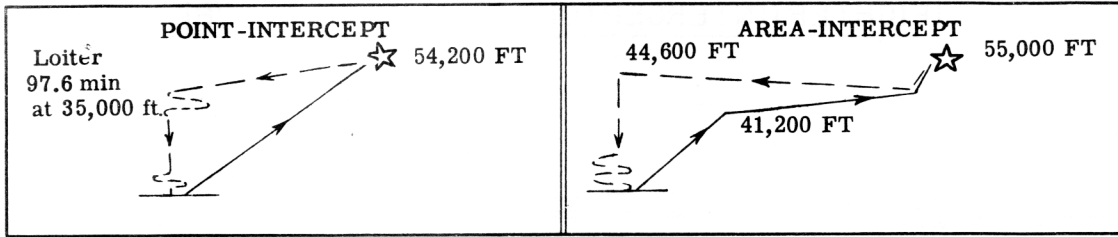
Classification cancelled ~~confidential~~ *unclassified*  
 or changed to ~~Secret~~  
 AUTH: AFSC AF-102B Sec. 1.5  
 By: A. R. Lombardi, Captain, USAF  
 Signature and Grade: 15 Dec 1966  
 16 10/16/64

Critical issue

Deleted; 4th Ed;  
 Add 1/20; 157 Nov 56

4th Ed addn #14

*Characteristics Summary Basic Mission . . . . . F-102B*



PERFORMANCE		
INTERCEPT	FERRY RANGE	S P E E D
POINT Total Mission Time for Interception at 54,200 ft. Equals 108 minutes (b)	1569 naut. mi. with 1700 gal. fuel at 532 knots avg. in 3.0 hours at 34,770 lb. T.O. wt.	POINT COMBAT 557 knots at 54,200 ft. alt. max. power MAX 1153 knots at 35,000 ft. alt. max. power BASIC 1020 knots at 50,000 ft. alt. max. power
375 AREA Nautical Miles at 532 Knots Average in 1.5 hours		
C L I M B	C E I L I N G	T A K E - O F F
POINT 37,200 fpm. at S.L. Take-Off Weight, Max. Power	POINT 55,000 ft. at 100 fpm, Take-Off Weight, Max Power	ground run AREA 2300 ft.   _____ ft. no assist   assisted
POINT 39,500 fpm. at S.L. Combat Wt., Max. Pow.	POINT 54,200 ft at 500 fpm, Combat Weight, Max. Power	over 50 ft. height AREA 3950 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 2 x MB-1 (A-T-A) 36 x 2.00" FFAR Fuel POINT AREA 1240 gal. 1240 gal. protected 0% 0% droppable 0% 0% external 0% 0%	Empty 22,310 lb. Combat 30,116 lb. Point 28,896 lb. Area Take-off 32,946 lb. limited by mission	AREA 141 knots power-off, landing config- uration, take-off weight <b>TIME TO CLIMB</b> POINT (b) 5.4 Min. S.L. to 54,200 Ft. Take-off Weight, Max. Power

**N O T E S**

1. Performance Basis:

- (a) Contractor's estimated data (Not substantiated by WADC)
- (b) Includes time for take-off and acceleration to climb speed.
- (c) Performance data are based on previous MB-1 and 2.00" FFAR armament configuration; performance based on armament configuration shown on front of page will be published as soon as available.

2. Revision Basis: Initial Issue