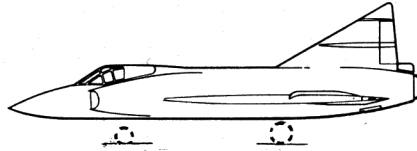
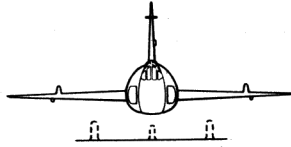
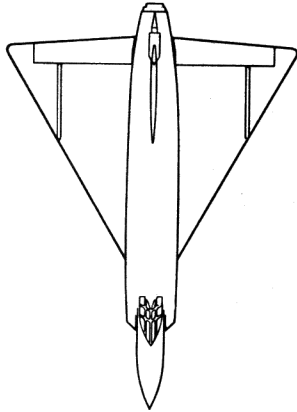


Issue

Characteristics Summary

FIGHTER (INTERCEPTOR) F-102B



CONSOLIDATED-VULTEE

Wing area 661.5 sq ft Length 52.5 ft
Span 37.0 ft Height 18.0 ft

AVAILABILITY

PROCUREMENT

Number available

Number to be delivered in fiscal years

ACTIVE	RESERVE	TOTAL				

STATUS

1. Design Initiated: Sep 50
2. Contract Date: Aug 51
3. First Flight: Aug 55 (est)

Navy Equivalent: None

Mfr's Model: 8

POWER PLANT

(1) YJ67 - W - 1
Wright

ENGINE RATINGS

S.L.S. LB - RPM - MIN
 Max: *21,500-†6175/8000-5
 Mil: 13,200-†6175/8000-30
 Nor: 11,700-†6175/8000-Cont

*With afterburner operating

†First figure represents RPM of low pressure spool while the second that of the high pressure spool.

FEATURES

- Crew 1
- Delta Wing
- Single Vertical Stabilizer
- Ejection Seat
- Cockpit Pressurization
- Drag Chute
- Power Operated Controls
- Hughes Fire Control System (MX-1179)
- Max Fuel Capacity: 1550 gal

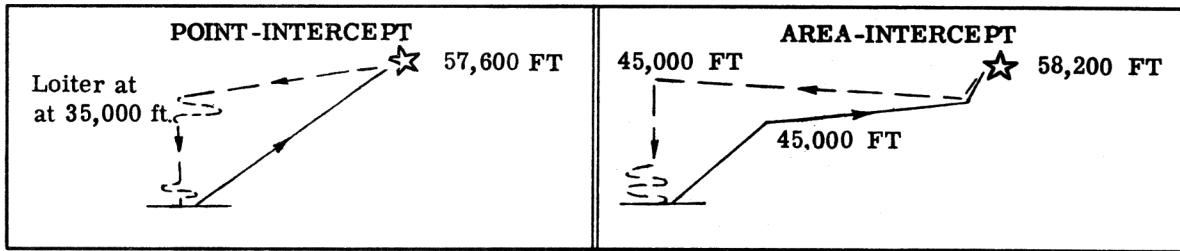
ARMAMENT

- Guns None
 - Bombs None
 - Missiles . . . 6 x XGAR-1A
 - Rockets. . . 24 x 2.75" FFAR
or
*96 x 2.75" FFAR
- *Alternate provisions:
additional rocket tubes
suspended in missile bay.

Classification cancelled
 or changed to ~~Confidential~~
 AUTH: 775G-AFBC
 By: A. R. Lowman
 Signature and Grade
 1 Apr 64
 15 Dec 1966
 30 March 67
 Deleted: #4 Ed
 Add No 20, 157056
 Doc Dir 5200.10

3rd Ed addn #6

Characteristics Summary Basic Mission F-102B



PERFORMANCE

INTERCEPT	FERRY RANGE	S P E E D															
POINT Total Mission Time for Interception at 57,600 ft. Equals 90 minutes 350 AREA Nautical Miles at 518 Knots Average in 1.4 hours	1110 naut. mi. with 1050 gal. fuel at 518 knots avg. in 2.1 hours at 25,862 lb. T.O. wt.	POINT COMBAT 570 knots at 57,600 ft. alt, max. power MAX 1173 knots at 35,000 ft. alt, max. power BASIC 1143 knots at 50,000 ft. alt. max. power															
CLIMB	CEILING	TAKE-OFF															
POINT 46,000 fpm. at S.L. Take-Off Weight, Max. Power	POINT 58,500 ft. at 100 fpm, Take-Off Weight, Max Power	ground run AREA 1370 ft. — ft. no assist assisted															
POINT 49,000 fpm. at S.L. Combat Wt., Max. Pc. 7.	POINT 57,600 ft at 500 fpm, Combat Weight, Max. Power	over 50 ft. height AREA 1980 ft. — ft. no assist assisted															
LOAD	WEIGHTS	STALLING SPEED															
Missiles: (6) XGAR-IA Rockets: (24) 2.75" FFAR <table border="0"> <tr> <td></td> <td>POINT</td> <td>AREA</td> </tr> <tr> <td>Fuel</td> <td>1050 gal.</td> <td>1050 gal.</td> </tr> <tr> <td>protected</td> <td>— %</td> <td>— %</td> </tr> <tr> <td>droppable</td> <td>0 %</td> <td>0 %</td> </tr> <tr> <td>external</td> <td>0 %</td> <td>0 %</td> </tr> </table>		POINT	AREA	Fuel	1050 gal.	1050 gal.	protected	— %	— %	droppable	0 %	0 %	external	0 %	0 %	Empty 18,654 lb. Combat 24,550 lb. Point 23,795 lb. Area Take-off 27,104 lb. Point 27,104 lb Area limited by mission	AREA 127 knots power-off, landing configuration, take-off weight TIME TO CLIMB POINT (b) 3.8 Min. S.L. to 50,000 Ft. Take-off Weight, Max. Power
	POINT	AREA															
Fuel	1050 gal.	1050 gal.															
protected	— %	— %															
droppable	0 %	0 %															
external	0 %	0 %															

NOTES

- Performance Basis:
 - Estimated data (not substantiated by WADC)
 - From standing start
- Revision Basis: Initial issue