

~~CONFIDENTIAL~~

Black Book

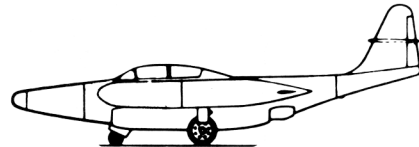
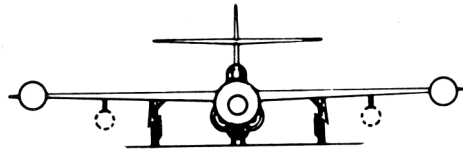
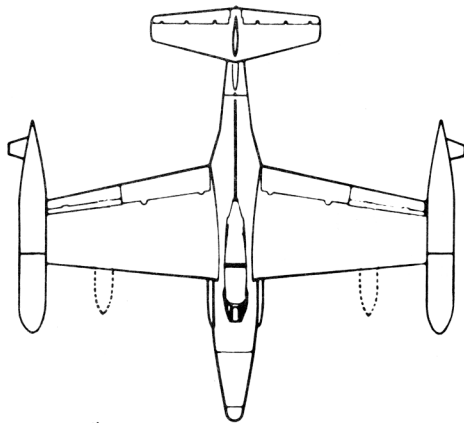
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A-1
F-89H/chan

SERVICE

Characteristics Summary

FIGHTER (INTERCEPTOR) F-89H



"SCORPION"

NORTHROP

Wing Area (includes tip pods) 650 sq ft Length 53.8 ft
Span 59.7 ft Height 17.5 ft

AVAILABILITY

PROCUREMENT

Number available

Number to be delivered in fiscal years

| ACTIVE | RESERVE | TOTAL |
|--------|---------|-------|
| | | |

STATUS

- | | |
|--|------------------------------------|
| 1. The F-89H is similar to the F-89D except for installation of E-9 Fire Control System in lieu of the E-6 system, redesign of the wing tip pods to incorporate missiles, rockets and auxiliary fuel, addition of a steerable nose wheel and a simplified fuel system. | 2. Contract Date: Mar 54 |
| | 3. First Flight(Prototype): Dec 54 |
| | 4. First Flight: Oct 55 |
| | 5. First Acceptance: Nov 55 |
| | 6. Production Completed: Oct 56 |

Navy Equivalent: None

Mfr's Model: N-138

POWER PLANT

(2) J35 -A-35

Allison

ENGINE RATINGS

S.L.S. LB - RPM - MIN

Max: *7200 - 8000 - 5

Mil: 5450 - 8000 - 30

Nor: 4855 - 7680 - Cont

* With afterburner operating

Note: Values are with inlet screens retracted.

FEATURES

- Crew (normal) 2
- Pilot
- Radar Operator
- All-Weather Interception Radar
- Instrument Landing System
- Sideslip Stability Augmentor
- E-11 Auto-Pilot
- E-9 Fire Control System
- Ejection Seats
- Split-Aileron Speed Brakes
- A-2 Flight Computer System
- Missile/Rocket/Fuel Wing Tip Pods
- Steerable Nose Wheel
- Single-Point Refueling System
- Full Power Flight Control System
- Low Pressure Oxygen System
- Max Fuel Capacity: 2369 gal

ARMAMENT

- Guns None
- Rockets . . . 42 x 2.75" FFAR plus 6 x GAR-1
- Bombs None

57WC 4983

Classification cancelled or changed to *Unclassified Guide*
 AUTH: *AFSC AF10C Dec class 1 Jan 64*
 By *C. R. Lovelace 3 Apr 64*
 Signature and Grade

CLASSIFICATION CANCELLED
 BY AUTHORITY OF *DD Form 5400.10*
 (INDIVIDUAL OR WRITTEN AUTHORITY)
 BY *C. R. Lovelace 13 Feb 69*
 (NAME & GRADE OF INDIVIDUAL MAKING CHANGE) (DATE)

7 OCT 57

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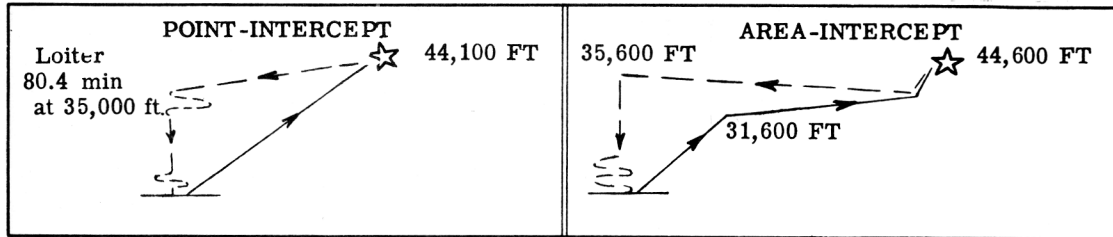
F-89H

5th Ed.
Black Book-1
addendum m. 2

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Characteristics Summary Basic Mission F-89H



| PERFORMANCE | | |
|---|---|--|
| INTERCEPT | FERRY RANGE | SPEED |
| POINT Total Mission Time for Interception at 44,100 ft. Equals 102.6 minutes | 1096 naut. mi. with 2369 gal. fuel | POINT COMBAT 460 knots at 44,100 ft. alt, max. power MAX 542 knots at 9750 ft. alt, max. power BASIC 480 knots at 40,000 ft. alt. max. power |
| AREA 305 Nautical Miles at 410 Knots Average in 1.58 hours | at 398 knots avg. in 2.78 hours at 45,833 lb. T.O. wt. | |
| CLIMB | CEILING | TAKE-OFF |
| POINT 6300 fpm. at S.L. Take-Off Weight, Max. Power | POINT 46,500 ft. at 100 fpm, Take-Off Weight, Max Power | ground run AREA 3500 ft. no assist _____ ft. assisted |
| POINT 7050 fpm. at S.L. Combat Wt., Max. Pow. | POINT 44,100 ft at 500 fpm, Combat Weight, Max. Power | over 50 ft. height AREA 5100 ft. no assist _____ ft. assisted |
| LOAD | WEIGHTS | STALLING SPEED |
| Rockets 42 x 2.75' FFAR plus 6 x GAR-1 | Empty 25,753 lb. Combat 38,009 lb. Point 37,060 lb. Area | AREA 118 knots power-off, landing configuration, take-off weight |
| Fuel POINT 1769 gal. AREA 1769 gal. protected 25.8 % 25.8 % droppable 0 % 0 % external 0 % 0 % | Take-off 43,175 lb. limited by mission | TIME TO CLIMB POINT 17.2 Min. S.L. to 44,100 Ft. Take-off Weight, Max. Power |

N O T E S

- Performance Basis:
 - Phase IV flight test data (Not substantiated by WADC)
 - From standing start
- Below 20,000 ft, limit IAS-470 kn or 0.9 Mach, whichever is less.
- Revision Basis: To reflect Phase IV flight test data.