Characteristics Summary

FIGHTER (INTERCEPTOR) F-94 B

LOCKHEED

Wing area .................................. 234.8 sq ft
Length ........................................ 40.1 ft
Span (minus tanks) ........................... 37.5 ft
Height ......................................... 12.7 ft

AVAILABILITY

<table>
<thead>
<tr>
<th>ACTIVE</th>
<th>RESERVE</th>
<th>TOTAL</th>
</tr>
</thead>
</table>

PROCUREMENT

Number to be delivered in fiscal years

STATUS

1. First Flight: Dec 50
2. First Acceptance: Dec 50
3. Production Completed: Jan 52
4. The F-94B's differ from the F-94A's by the incorporation of the following: high pressure oxygen system, 1500 psi hydraulic system, windshield de-icing, zero reader, glide path receiver, localizer receiver, 5 psi cockpit pressurization and temperature regulator.
Navy Equivalent: None

POWER PLANT

(1) J33-A-33†

Allison

ENGINE RATINGS

S.L.S.  LB - RPM - MIN
Max:  *6000 -11,750 - 5
Mil:  4600 -11,750 - 30
Nor:  3900 -11,250 - Cont
*With afterburner operating
†Being modified to incorporate provisions for thermal de-icing. To be redesignated J33-A-33A.

ATO
No & Model.(2) 12AS-1000D4
Mfr. ................. Aerojet
Thrust (ea) ............ 1000 lb
Duration (sec) ......... 12

FEATURES

Crew: 2
Pressurization (5 psi)
Instrument Landing System
Zero Reader
Hi Press. Oxygen System
1500 psi Hydraulic System
E-1 Fire Control System
Automatic Pneumatic Gun Chargers
Max Fuel Capacity: 783 gal

ARMAMENT

Turrets: None
Guns: 4 x .50 cal
Ammunition (tot.): 1200 rds
Max Bomb Load: *2 x 1000 lb
Max Bomb Size: *1000 lb
*Provisions

Mfr's Model: 780-76-08

24 MARCH 1952

F-94 B
Characteristics Summary Basic Mission F-94 B

Point-Intercept
Loiter at 35,000 FT

Area-Intercept

Performance

Intercept

POINT
Total Mission Time for Interception at 45,000 ft.
= 84.2 minutes

288 AREA Nautical Miles at 393 Knots Average in 1.62 hours

Ferry Range

786 naut. mi. with 783 gal fuel
at 391 knots avg. in 2.06 hours
at 16,534 lb T.O. wt.

Speed

POINT
COMBAT 426 knots at 45,700 ft alt, max power
MAX 511 knots at Zero ft alt, max power
BASIC 444 knots at 40,000 ft alt, max power

Climb Ceiling Take-Off

Point

6850 fpm. at S.L. Take-Off Wt., Max. Pow.

48,000 ft. at 100 fpm, Take-Off Weight, Max. Power

2880 ft 2220 ft
ground run no assist assisted

Point

7800 fpm. at S.L. Combat Weight, Max. Power

45,700 ft at 500 fpm, Combat Weight, Max. Power

3780 ft 2810 ft
over 50 ft height no assist assisted

Load Weights

Ammunition: 1200 rds/50 cal

Point Area
Fuel 783 gal 783 gal
protected 8% 8%
droppable 59% 59%
external 59% 59%

Stalling Speed

Point
AREAPower-off, landing configuration, take-off weight

111 knots

Time to Climb

Point
16.5 Min
S.L. to 45,700 Ft
Take-off Weight, Max. Power

Notes

1. Performance Basis:
   (a) Contractor's flight tests of F-94B.

2. Revision Basis:
   To correct format.