Characteristics Summary

FIGHTER (INTERCEPTOR) .......... F-86K

"SABRE"  
NORTH AMERICAN

Wing Area .................. 287.9 sq ft  Length .................. 40.9 ft
Span .................. *37.1 ft  Height .................. 15.0 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. The F-86K is basically an F-86D modified to carry cannon in lieu of rocket armament.
2. Contract Approved: Dec 53

3. First Flight (YF-86K): Jul 54
4. First Acceptance: May 55
5. Production Status: Completed

Navy Equivalent: None  Mfr's Model: NA-207, NA-213, NA-221

POWER PLANT

(1) J47-GE-17B

General Electric

ENGINE RATINGS

S.L.S.  LB - TEMP - MIN
Max: *7500 - 685°C - 15
Mil:  5425 - 685°C - 30
Nor:  4990 - 685°C - Cont

*With afterburner operating

7950 RPM remains constant for Normal power and higher.

FEATURES

Crew .................. 1
F-5 Automatic Pilot
Anti-G Suit Provisions
All-Movable Horizontal Tail
Irreversible Flight Controls
Modified A-4 Gunsight
MG-4 Fire Control System
Wing Leading Edge Slats
Braking Parachute

Black Book
Max Fuel Capacity: 850 gal

ARMAMENT

Guns 4 x 20 mm (M24A1)
Ammunition (tot): 528 rds.
Rockets ........ None
Bombs ........ None

22 SEP 58  
5th Ed Addendum Nr

UNCLASSIFIED

F-86K

26 SEP 58

UNCLASSIFIED  

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### Characteristics Summary Basic Mission

**Loiter**
- **19.7 min**
- **35,000 ft**

**Point-Intercept**
- **47,700 FT**

**Area-Intercept**
- **35,300 FT**
- **38,300 FT**
- **47,000 FT**

### Performance

<table>
<thead>
<tr>
<th>POINT</th>
<th>Intercept</th>
<th>Ferry Range</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Mission Time for Interception at 47,700 ft. Equals 37.2 minutes</td>
<td>646 naut. mi. with 850 gal. fuel at 478 knots avg. in 1.44 hours at 20,001 lb. T.O. wt.</td>
<td>COMBAT 504 knots at 47,700 ft. alt., max. power</td>
</tr>
<tr>
<td></td>
<td>236 Nautical Miles at 478 Knots Average in 1.15 hours</td>
<td></td>
<td>MAX 601 knots at zero ft. alt., max. power</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>BASIC 532 knots at 40,000 ft. alt., max. power</td>
</tr>
</tbody>
</table>

### Climb

**Point**
- **10,950 fps** at S.L. Take-Off Weight, Max. Power

**Climb**
- **49,600 ft** at 100 fps, Take-Off Weight, Max Power

**Take-off**
- **2460 ft** ground run, no assist assisted
- **3680 ft** over 50 ft. height, no assist assisted

### Load Weights

<table>
<thead>
<tr>
<th>Ammunition: 528 rds/20mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty 13,367 lb.</td>
</tr>
<tr>
<td>Combat 16,252 lb. Point</td>
</tr>
<tr>
<td>17,990 lb. Area</td>
</tr>
<tr>
<td>Take-off 18,379 lb. Point</td>
</tr>
<tr>
<td>20,171 lb. Area</td>
</tr>
</tbody>
</table>

### Stalling Speed

**Area** 118.5 knots power-off, landing configuration, take-off weight

### Time to Climb

**Point**
- **12.5 Min.**
- S.L. to 47,700 Ft. Take-off Weight, Max. Power

### Notes

1. Performance Basis:
   - (a) Flight test
   - (b) From standing start
   - (c) Aircraft No. 56-4116 thru 4160 have a 12 inch extension added to each wing tip - span = 39.1 ft

2. Revision Basis: To reflect minor changes.