Characteristics Summary

RECONNAISSANCE ............ (RANGE EXT.) RB-47E

"STRAITOJET" BOEING

Wing Area .................... 1428 sq ft
Length ...................... 109.8 ft
Span ......................... 116.0 ft
Height ....................... 28.0 ft

AVAILABILITY

<table>
<thead>
<tr>
<th>Number available</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
</tbody>
</table>

STATUS

1. The RB-47E (Range Extension) airplane differs from the Standard RB-47E by the strengthening of the landing gear to permit heavier take-off weights.

Navy Equivalent: None

POWER PLANT

(6)J47-GE-25
General Electric
ENGINE RATINGS
S.L.S.  LB  -  RPM  -  MIN
Max(wet): 6970 - 7950 - 5
9970 - 7950 - 5
MIL: 5870 - 7800 - 30
Nor: 5320 - 7630 - Cont
ATO
No. & Model: *(33)14DS1000
Thrust (lb) .... 33,000
Duration (sec) .... 14

or
No. & Model: **(33)15KS1000
Thrust (lb) .... 33,000
Duration (sec) .... 15

* Manufactured by Allegheny
** Manufactured by Aerojet

FEATURES

Crew .................... 3
Thermal Anti-icing
AN/APQ-31A Bombing-
Navigation Radar
A-5 Fire Control System
Anti-Skid Brakes
Approach Chute
Braking Chute
Ejection Seats
Internal Fuel Tank Purging
Single-Point and Air Re-Fueling
External Droppable ATO
Rack
Max Fuel Cap: *18,474 gal
*Includes wing drop tanks & large ATO tank

ARMAMENT

Turrets: ............ 1
Guns: .... 2x20mm(M24A1)
Ammunition (tot): .... 700 rds

PHOTO. EQUIP.

Vertical Camera Station
(1) K-38; *(1) K-37; *(1) T-11
Tri-Camera Station
(3) KA-3
Forward Oblique Station
(1) K-38
Split Vertical Station
(2) K-38; *(K-37)
Flash Bombs: .... 10/M-120
plus
Photoflash Cart. 200/M-112
*Alternate Installations

18 DEC '53

CONFIDENTIAL

(1953 Abbreviation #9)

RB-47E
(RANGE EXTENSION)

53 WC 12000
## Characteristics Summary Basic Mission

**RB-47E**
(RANGE EXTENSION)

**Performance**

<table>
<thead>
<tr>
<th>Combat Radius</th>
<th>Ferry Range</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1915 naut. mi with 720 lb chaff</td>
<td>3935 naut. mi with 15,989 gal fuel</td>
<td>COMBAT 469 knots at 39,200 ft alt, max power</td>
</tr>
<tr>
<td>at 433 knots avg.</td>
<td>at 433 knots avg. in 9.15 hours at 200,000 lb T.O. wt.</td>
<td>MAX 497 knots at 20,000 ft alt, max power</td>
</tr>
<tr>
<td>in 8.92 hours.</td>
<td></td>
<td>BASIC 469 knots at 35,000 ft alt, max power</td>
</tr>
</tbody>
</table>

**Climb**

<table>
<thead>
<tr>
<th>Ceiling</th>
<th>Take-off</th>
</tr>
</thead>
<tbody>
<tr>
<td>2110 (d) fpm sea level, take-off weight normal power</td>
<td>31,500 (d) ft 100 fpm, take-off weight normal power</td>
</tr>
<tr>
<td>4470 fpm sea level, combat weight maximum power</td>
<td>39,800 ft 500 fpm, combat weight maximum power</td>
</tr>
</tbody>
</table>

**Load Weights**

<table>
<thead>
<tr>
<th>Chaff:</th>
<th>Ammunition: 700 rds/20mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel:</td>
<td>Empty..... 81,100 lb</td>
</tr>
<tr>
<td>Chaff protected 63 %</td>
<td>Combat... 130,180 lb</td>
</tr>
<tr>
<td>Chaff droppable 8 %</td>
<td>Take-off 200,000 lb (2)</td>
</tr>
<tr>
<td>Chaff external 8 %</td>
<td>Limited by structure</td>
</tr>
</tbody>
</table>

**Stalling Speed**

| 140 knots power-off, landing configuration, take-off weight |

**Time to Climb**

### Notes

1. Performance Basis:
   - (a) Flight test data
   - (b) All approved weight reduction items incorporated
   - (c) Structural limit
   - (d) Values quoted are for T.O. weight less ATO, water and alcohol

2. Includes 4610 lb ATO and 5300 lb water and alcohol

3. Revision Basis: Initial Issue