Characteristics Summary

RECONNAISSANCE ........ RB-52B

"STRATOFORTRESS"

BOEING

Wing Area .................. 4000 sq ft
Length .................... 156.6 ft
Span ........................ 185.0 ft
Height (overall) .......... 48.3 ft
Height (fin folded) ...... 20.8 ft

AVAILABILITY

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

PROCUREMENT

<table>
<thead>
<tr>
<th>Number to be delivered in fiscal years</th>
</tr>
</thead>
</table>

STATUS

1. Design Initiated: Apr 52
2. First Flight: Aug 55 (est)
3. First Acceptance: Aug 55 (est)
4. The RB-52B (Reconnaissance Version) becomes an RB-52B (Bomber Version) when the capsule containing photographic, weather and electronic equipment is removed from the bomb bay.

Navy Equivalent: None

Mfr's Model: 464-201-1

POWER PLANT

(8) J57-P-1W
Pratt & Whitney

ENGINE RATINGS

S.L.S LB - **RPM - MIN
Max: *11,400-6450/9900 - 5
Mid: 9500-6030/9800 - 30
Nor: 8250-5770/9550 - Cont

* Wet
** First figure represents low pressure spool, second figure represents high pressure spool.

FEATURES

Crew ..................... 8
Cabin Pressurization
Heating & Cooling
Folding Fin
Deceleration Chute
Quadricycle Landing Gear
Interchangeable
Reconnaissance Capsule
Vertical Camera Station
Steerable Landing Gear
K-3A Bombing - Nav. System
A-3A Fire Control System
Thermal Anti-icing
Max Fuel Capacity: 37,385 gal

ARMAMENT

Turret ............ 4 x .50 cal [1]
Ammunition (tot) ... 2400 rds
BOMBS
No. ............ Class (lb)
24 (M-120 Flash bombs) 165

CAMERAS

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tri Camera Station</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Multi Camera Station</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>K-38, K-37(Vertical)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>T-11</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>K-37</td>
<td></td>
</tr>
</tbody>
</table>

* No fixed station
* Type not determined

1 MAR 55
### Characteristics Summary Basic Mission

**RB-52B**

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**Performance**

<table>
<thead>
<tr>
<th><strong>Combat Radius</strong></th>
<th><strong>Ferry Range</strong></th>
<th><strong>Speed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>3165 naut. mi</td>
<td>6360 naut. mi</td>
<td>COMBAT 489 knots at 46,000 ft alt., max power (b)</td>
</tr>
<tr>
<td>with 4100 lb payload</td>
<td>with 34,569 gal fuel</td>
<td>MAX 542 knots at 19,500 ft alt., max power</td>
</tr>
<tr>
<td>at 457 knots avg.</td>
<td>at 457 knots avg. in 13.98 hours</td>
<td>BASIC 517 knots at 35,000 ft alt., max power</td>
</tr>
<tr>
<td>in 13.92 hours.</td>
<td>at 405,000 lb T.O. wt.</td>
<td></td>
</tr>
</tbody>
</table>

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**Climb Ceiling Take-off**

<table>
<thead>
<tr>
<th><strong>Climb</strong></th>
<th><strong>Ceiling</strong></th>
<th><strong>Take-off</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>2190 fpm sea level, take-off weight, normal power</td>
<td>39,700 ft 100 fpm, take-off weight, normal power</td>
<td>ground run 7170 ft no assist assisted</td>
</tr>
<tr>
<td>4560 fpm sea level, combat weight, maximum power</td>
<td>46,650 ft 500 fpm, combat weight, maximum power</td>
<td>over 50 ft height 9280 ft no assist assisted</td>
</tr>
</tbody>
</table>

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**Load Weights**

- Flash bombs: 3700 lb
- Chaff: 400 lb
- Ammo: 2400 rds./.50 cal
- Fuel: 34,419 gal
  - protected 64%
  - droppable 6%
  - external 6%
- Empty... 170,164 lb
- Combat... 272,350 lb
- Take-off 495,000 lb

Limited by strength (Does not include up to 1000 lb of water.)

**Stalling Speed**

128 knots power-off, landing configuration, take-off weight

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**Time to Climb**

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**Notes**

1. Performance Basis:
   - (a) Preliminary flight test and estimated engine data.
   - (b) Limited by structure.
   - (c) Tanks carried all the way.

2. Revision Basis: To reflect changes in take-off and empty weight.

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35445-Patterson Air Force Base
Ohio 45433

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RB-52B SECRET

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1 Mar 55