Characteristics Summary

RECONNAISSANCE · · · · · · · · · · RB-36E

Wing area ........................................ 4712 sq ft Length ..................................... 162.1 ft
Span .................................................. 230 ft Height ....................................... 46.8 ft

**AVAILABILITY**

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

**STATUS**

1. All B-36A's are currently being modified and redesignated RB-36E's
2. First flight: Jul 1950
3. First acceptance: 24 Jul 1950
4. First delivery: 27 Jul 1950

**POWER PLANT**

(6) R-4360-41 Pratt-Whitney
ENGINE RATINGS
EHP - RPM: - LT
T.O: 3500 - 2700 - S.L. 3250 - 2700 - S.L.
Mil: 3500 - 2700 - 500
Nor: 2650 - 2550 - 5500
*Wet plus

(4) J47-GE-19 General Electric
ENGINE RATINGS
S.L. Static L3 - RPM:
Max: 5500 - 7950
Mil: 5200 - 7950
Nor: 4730 - 7630

**FEATURES**

- Crew: 18
- Cameras: 14
- Cabin Pressurization
- Thermal Anti-icing
- Bombing-Navigation Radar
- Gun Laying Radar
- Defensive & Ferret ECM
- Fuel Tank Purging
- Max Fuel Cap: 33,060 gal

**ARMAMENT**

- Turrets: 8
- Guns: 16 x 20mm
- Ammunition (tot.): 9200 rds
- Max Flash Bombs: (80)7-86

8 SEPT. 1950
### Characteristics Summary Basic Mission

**RB-36E**

![Graph showing flight path](image)

**Combat Radius**: 3252 Nautical Miles

**Combat Range**: 6410 Nautical Miles

**Combat Speed**: 368 knots at 25,000 ft alt, max power

**Maximum Speed**: 377 knots at 32,100 ft alt, max power

### Performance

<table>
<thead>
<tr>
<th>Computed Radius</th>
<th>Combat Range</th>
<th>Combat Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3252 (d) naut. mi</td>
<td>6410 (d) naut. mi</td>
<td>368 (e) knots at 25,000 ft alt, max power</td>
</tr>
</tbody>
</table>

- **Fuel**
  - 10,000 FT.
  - 25,000 FT.
  - COMBAT RADIUS: 3252 Nautical Miles

### Climb Ceiling Take-Off

<table>
<thead>
<tr>
<th>Climb</th>
<th>Ceiling</th>
<th>Take-Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>1050 (e) fpm</td>
<td>33,150 (e) ft</td>
<td>4440 ft</td>
</tr>
</tbody>
</table>

- **Sea level, take-off weight**
  - 2256 lb
  - 3283 lb

- **Ammunition**: 9200 rds/20mm

- **Flash Bombs**: 2256 lb

### Load Weights

<table>
<thead>
<tr>
<th>Load</th>
<th>Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Bombs: 2256 lb</td>
<td></td>
</tr>
<tr>
<td>Cameras: 3283 lb</td>
<td></td>
</tr>
<tr>
<td>Ammunition: 9200 rounds/20mm</td>
<td></td>
</tr>
</tbody>
</table>

- **Fuel**: 28,806 gal
- **Protected**: 51%
- **Droppable**: 0%
- **External**: 0%

### Stalling Speed

- **105 knots** flaps down, take-off weight

### Time to Climb

- **4440 ft** ground run
  - no assist
  - assisted

- **5550 ft** over 50 ft height
  - no assist
  - assisted

### Notes

1. **Performance Basis**:
   - Estimated data based on preliminary flight test of No. 54 B-36B jet pod prototype.
   - Fuel density: 6.0 lb/gal.
   - In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.
   - For Combat Radius and Range J47 engines are used for take-off, all climbs, bomb run and escape from target area but are inoperative for all normal cruising.

2. **Revision Basis**:
   - To reflect correct jet engine designation, security classification, "Status" and type flash bombs.

3. Performance data for the RB-36E with jet pods removed are shown in MCRE Report No. 2 "USAF Standard Aircraft Characteristics" *Flash Bombs dropped at target

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Patterson Air Force Base
RB-36E
8 Sept. 1950