Characteristics Summary

BOMBER ................. B-47E IV

"STRATOJET"

Wing Area ................. 1428 sq ft
Length .................... 107.1 ft
Span ....................... 116.0 ft
Height ..................... 28.0 ft

AVAILABILITY

Number available

ACTIVE RESERVE TOTAL

PROCUREMENT

Number to be delivered in fiscal years

STATUS

1. The B-47E-IV airplane differs from the Basic B-47E-II by the strengthening of the landing gear to permit heavier take-off weights.
2. Data is shown for the test articles (862nd B-47E). The modification is effective on the 862nd and subsequent aircraft.
3. Delivery date for first B-47E-IV: Feb 55

Navy Equivalent: None

Mfr's Model: 450-157-35

POWER PLANT

(6) J47-GE-25, - 25A
General Electric
ENGINE RATINGS

S.L.S. LB - RPM - MIN
Max(wet): 7200 - 7950 - 5
5970 - 7950 - 5
Mil: 5970 - 7800 - 30
Nor: 5320 - 7630 - Cont

*With water flow of 650 lb/min

ATO
Nr & Model: 14AS1000
Thrust (lb) .............. 33,000
Duration (sec) ........... 14

or

Nr & Model: 15KS1000
Thrust (lb) .............. 19,000
Duration (sec) ........... 15

†Manufactured by Aérojet
*See note (e), Notes block

FEATURES

Crew ...................... 3
Thermal anti-icing
MA-7A bombing-navigation
system
A-3 fire control system
Anti-skid brakes
Approach chute
Braking chute
Ejection seats
Internal fuel tank purging
(1) K-38 or alternate vertical
camera
Single-point and air re-
fueling
External droppable ATO
rack
Max fuel cap: *18,000 gal
*Includes wing drop tanks
and large ATO tank

ARMAMENT

Turrets: .............. 1
Guns: 2 x 20mm (M24A1)

BOMBS: (Max)
Class (lb) Load

SHORT BOMB BAY
Interim: 3x2000 14x 500
(M-128)
†3x2000 3x2000

New
 Series: 7x750 7x750

LONG BOMB BAY
Interim: 6x2000/18x1000
New
Series: *1x12,000/21x750
Special
Stores: 1x10,000/1x10,000
*Hi-Density Kit/Lo-Density

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## Characteristics Summary: Basic Mission

**B-47E IV**

![Diagram](image)

### Performance

<table>
<thead>
<tr>
<th>Performance</th>
<th>Ferry Range</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Combat Radius</strong></td>
<td>2050 naut. mi</td>
<td><strong>Combat</strong> 483 knots at 37,350 ft alt., max power</td>
</tr>
<tr>
<td>- with 10,845 lb payload</td>
<td>4340 naut. mi</td>
<td><strong>Max</strong> 528 knots at 16,300 ft alt., max power</td>
</tr>
<tr>
<td>- at 435 knots avg.</td>
<td>- in 10.02 hours</td>
<td><strong>Basic</strong> 490 knots at 35,000 ft alt., max power</td>
</tr>
<tr>
<td>- in 9.42 hours.</td>
<td>4340 naut. mi</td>
<td></td>
</tr>
</tbody>
</table>

### Climb

<table>
<thead>
<tr>
<th>Climb</th>
<th>Ceiling</th>
<th>Take-Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>1850 fpm</td>
<td>29,500 ft</td>
<td><strong>Ground Run</strong> 11,300 ft no assist</td>
</tr>
<tr>
<td>seg level, take-off weight</td>
<td>100 fpm, take-off weight</td>
<td><strong>Over 50 ft height</strong> 12,000 ft no assist</td>
</tr>
<tr>
<td>normal power</td>
<td>normal power assisted</td>
<td>8800 ft (c) assisted</td>
</tr>
<tr>
<td>850 fpm</td>
<td>39,300 ft</td>
<td></td>
</tr>
<tr>
<td>sea level, combat weight</td>
<td>500 fpm, combat weight</td>
<td></td>
</tr>
<tr>
<td>maximum power</td>
<td>maximum power</td>
<td></td>
</tr>
</tbody>
</table>

### Load Weights

<table>
<thead>
<tr>
<th>Load</th>
<th>Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bombs:</td>
<td>10,000 lb</td>
</tr>
<tr>
<td>Chaff:</td>
<td>845 lb</td>
</tr>
<tr>
<td>Ammunition:</td>
<td>700 rds/20mm</td>
</tr>
<tr>
<td>Fuel:</td>
<td>18,000 gal</td>
</tr>
<tr>
<td>protected</td>
<td>56.5 %</td>
</tr>
<tr>
<td>droppable</td>
<td>18.8 %</td>
</tr>
<tr>
<td>external</td>
<td>18.8 %</td>
</tr>
<tr>
<td>Empty...</td>
<td>79,074 lb</td>
</tr>
<tr>
<td>Combat...</td>
<td>133,030 lb</td>
</tr>
<tr>
<td>Take-off</td>
<td>225,958 lb</td>
</tr>
<tr>
<td>limited by space</td>
<td></td>
</tr>
</tbody>
</table>

### Stalling Speed

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

### Time to Climb

**Notes**

1. Performance Basis:
   - (a) Flight test data.
   - (b) Value quoted for take-off weight less 7109 lb ATO and 5300 lb water-alcohol.
   - (c) With 33 x 1000 lb thrust ATO bottles.
   - (d) Placard limit
   - (e) (33)14AS1000 ATO bottles can be utilized with or without the displacement rack, however the displacement rack must be utilized in carrying max compliment of (19) 15KS1000. Rack is also utilized in carrying (30) 16NS1000 M-15 ATO. (Manufactured by Philips Petroleum).

2. Revision Basis: Data co-ordinated by OCAMA 25 Aug 59