Characteristics Summary

BOMBER · · · · · · · · · · · · B-47C

Wing area .................. 1428 sq ft
Length ........................ 106.7 ft
Span .......................... 116 ft
Height ........................ 27.9 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. Modification of B-47B with (4) J35 engines in lieu of (6) J47's
2. Design initiated: Jan 50
3. First flight (YB-47C prototype): Jul 51 (est.)
4. First acceptance: May 53 (est.)
5. One B-47B bailed to Boeing for engine and related changes and tests.
6. Formerly designated B-55A

POWER PLANT

(4)J35-A-23 Allison

ENGINE RATINGS

S.L. Static LB - RPM
Max: 9700 - 6100
MIL: 9700 - 6100
Nor: 8200 - 6100

JATO

(1) Aerojet "YLR-45-AJ-1" or
(1) M.W. Kellogg "YLR-47-K-1"

4 chambers (5000 lb thr ea)
Total thrust (lb) 20,000
Duration (sec) 60

FEATURES

Crew: 3
Cabin Pressurization
Thermal Anti-icing
Bombing Navigation Radar
Gun Laying Radar
Anti-Skid Brakes
Bail-out Spoiler Door
Int & Ext Fuel Tank Purging
Camera Provisions
Braking Parachute
Single Point Refueling
Air Refueling Provisions
Max Fuel Cap: 16,716 gal

ARMAMENT

Turrets: 1
Guns: 2x50 cal
Ammunition (tot.): 1200 rds
Max Bomb Load: 1x25,000 lb
Max Bomb Size: 25,000 lb
**Characteristics Summary Basic Mission**  

**B-47C**

![Diagram showing flight path and combat radius](image)

**Combat Radius**

- 2190 naut. mi with 10,000 lb payload
- at 426 knots avg.
- in 10.46 hours
- **COMBAT RADIUS = 2190 Nautical Miles**

**Performance**

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>COMBAT RANGE</th>
<th>COMBAT SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>2190 naut. mi</td>
<td>4255 naut. mi</td>
<td>486 knots at 35,000 ft alt, max power</td>
</tr>
<tr>
<td>with 10,000 lb payload</td>
<td>with 10,000 lb payload</td>
<td>(c) knots at ft alt, max power</td>
</tr>
<tr>
<td>at 426 knots avg.</td>
<td>at 426 knots avg.</td>
<td></td>
</tr>
<tr>
<td>in 10.46 hours</td>
<td>in 10.07 hours</td>
<td></td>
</tr>
</tbody>
</table>

**Climb**

- 3575 fpm sea level, take-off weight
- 7600 fpm sea level, combat weight

**Ceiling**

- 36,800 ft 100 fpm, take-off weight
- 42,900 ft 500 fpm, combat weight

**Take-off**

- Ground run
- Over 50 ft height

**Load Weights**

| Bombs: 10,000 lb Ammunition: 1200 rds./.50 cal |
|---|---|
| Fuel: 13,081 gal protected | 13,081 gal droppable |
| | 13,081 gal external |

**Stalling Speed**

- 138 knots flaps down, take-off weight

**Time to Climb**

- (c)

**Notes**

1. **PERFORMANCE BASIS:**
   - (a) Contractor's estimated data. (Not substantiated by AMC)
   - (b) Fuel density: 6.5 lb/gal(JP-1)
   - (c) Performance not available
   - (d) In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.
2. **REVISION BASIS:** To reflect change in max fuel capacity