**Characteristics Summary**

**BOMBER B-52D**

"STROFTOFRONT" BOEING

- **Wing Area**: 4000 sq ft
- **Length**: 156.6 ft
- **Height (overall)**: 48.3 ft
- **Height (fin folded)**: 20.8 ft

**AVAILABILITY**

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

**PROCUREMENT**

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

**STATUS**

1. The B-52D airplane is same as RB-52C except that it does not have the bomb bay (Capsule) convertibility to a reconnaissance characteristic.

2. Delivery: Five B-52D airplanes are scheduled for delivery... Dec 56 (est)

Navy Equivalent: None

Mfr's Model: 464-201-6

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**POWER PLANT**

(8) J57-P-19W Pratt & Whitney ENGINE RATINGS

- **S.I.S. LB - **RPM -**MIN**
  - Max: *12,100 - 6450/9900-5
  - Mil: 10,500 - 6150/9900-30
  - Nor: 9000 - 5900/6650-Cont

* Wet

** First figure represents low pressure spool; second figure represents high pressure spool.

Note: At present there are no requirements for ATO

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**FEATURES**

- Crew: 6
- Cabin Pressurization
- Heating and Cooling
- Thermal Anti-Icing
- Braking parachute
- Quadricle Landing Gear
- Aerodynamic Spoilers (Air-brake)
- Vertical Camera Station
- Steerable Landing Gear
- MA-6 Bombing - Nav. System
- A-3A Fire Control System
- Folding Fin

Max Fuel Cap: 42,110 gal

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**ARMAMENT**

- **Turret**: 1
- Guns: 4 x .50 cal (M-3)
- Ammunition (tot): 2400 rds
- BOMBS: No.
- Class: New Series
- 27 (Family of Clusters) 1000
- Special Weapons: 1
  - 30,000 lb
  - 6500 lb

Max Bomb Load: 1 x 43,000 lb

Note: Structural provisions for 50,000 lb bomb; space and structural provisions for XB-63

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5 OCT 54

SECRET

55 WP 1658
**PERFORMANCE**

- **COMBAT RADIUS**
  - 3625 naut. mi
  - with 10,000 lb payload
  - at 457 knots avg.
  - in 15.93 hours.

- **FERRY RANGE**
  - 7260 (c) naut. mi
  - with 42,110 gal fuel
  - at 457 knots avg.
  - in 15.93 hours
  - at 447,500 lb T.O. wt.

- **SPEED**
  - **COMBAT** 489 knots at 46,150 ft alt, max power
  - **MAX** 546 knots at 20,000 ft alt, max power
  - **BASIC** 518 knots at 35,000 ft alt, max power

**CLIMB**

- **CEILING**
  - 2240 fpm sea level, take-off weight normal power
  - 38,050 ft 100 fpm, take-off weight normal power
  - 5430 fpm sea level, combat weight maximum power
  - 47,350 ft 500 fpm, combat weight maximum power

**WEIGHTS**

- **LOAD**
  - Bombs .............. 10,000 lb
  - Ammunition: 2400 rds./.50 cal
  - Fuel: 40,956 gal
  - protected 63%
  - droppable 15%
  - external 15%

- **STALLING SPEED**
  - Empty..... 165,110 lb
  - Combat... 279,900 lb
  - Take-off 450,000 lb

**NOTES**

1. Performance Basis:
   - Preliminary flight test of XB-52 and YB-52.
   - Limited by structure
   - Tank carried all the way
   - Per design criteria the minimum take-off distances are: 7800 ft ground run and 10,000 ft over 50 ft obstacle.

Revision Basis: To reflect latest performance and characteristics data.