# Characteristics Summary

## Bomber: XB-64

- **Wing Area**: 425 sq ft
- **Length (Missile)**: 67.8 ft
  - **Booster**: 76.4 ft
  - **Combination**: 83.8 ft
- **Span**: 28.2 ft
- **Height**: 16.3 ft

### Availability

<table>
<thead>
<tr>
<th>Number available</th>
<th>Procurement</th>
<th>Number to be delivered in fiscal years</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
<td>TOTAL</td>
</tr>
</tbody>
</table>

### Status

1. **Lock-Up**: Jul 52
2. **First Flight**: Dec 55
3. **Completion of Development**: Sep 58

**Navy Equivalent**: None

### Power Plant

- **(2) XRJ47-W-5**
- **Wright Aero. Corp.**
- **ENGINE RATINGS**
  - **ALT**: 37,000 ft
  - **LB**: 22,500 lbs
  - **NACH**: 2.75

**Booster**

- **No. & Model**: (1) XLR71-NA-1
- **Mfr**: North American
- **Thrust (lb)**: 240,000
- **Duration (sec)**: 65

### Features

- **Low Delta Wing**
- **Completely Movable Forward Surfaces**
- **Parallel Mounted Liquid Rocket Propelled Booster**
- **Air Conditioned Guidance Compartment**
- **Recoverable thru Glide Brakes, Drag Chute and Tricycle Gear**
- **Max Fuel Cap**: 6360 gal

### Guidance

- **SYSTEM**
  - *Inertial*
  - **AN/ARW-55 and AN/ARW-56 Command Guidance for Recovery**

**CONTROL**

- **System**: Auto-navigator & Auto-Pilot

- **For advanced versions**
- **For early-flight tests**

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**1 SEP 54**

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**SECRET**

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**XB-64**

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**SURFACE - SURFACE**

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**54MC273801**

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### PERFORMANCE

<table>
<thead>
<tr>
<th>Endurance</th>
<th>Radius</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td>515 naut mi.</td>
<td>Cruise 1580 kn (2.75 Mach) at cruise power</td>
</tr>
<tr>
<td></td>
<td>with 1060 lb payload</td>
<td></td>
</tr>
<tr>
<td></td>
<td>at 1580 knots avg.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>in 0.747 hours</td>
<td></td>
</tr>
</tbody>
</table>

### LAUNCHING

Launched vertically from ground, using booster providing 240,000 lb of thrust; booster separates at 47,900 ft.

### CLIMB

Begin Cruise 58,100 ft.

### ALTITUDE

End Cruise 74,500 ft.

### LOAD WEIGHTS

<table>
<thead>
<tr>
<th>Load</th>
<th>Weights</th>
<th>Target Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel</td>
<td></td>
<td>50% hits within 4000 ft radius of target.</td>
</tr>
<tr>
<td>Alcohol</td>
<td>4076 gal</td>
<td></td>
</tr>
<tr>
<td>Oxidizer</td>
<td>3977 gal</td>
<td></td>
</tr>
<tr>
<td>JP-5</td>
<td>5024 gal</td>
<td></td>
</tr>
<tr>
<td>Instruments</td>
<td>1060 lb</td>
<td></td>
</tr>
<tr>
<td>Empty (XB-64)</td>
<td>23,490 lb</td>
<td></td>
</tr>
<tr>
<td>Booster</td>
<td>7920 lb</td>
<td></td>
</tr>
<tr>
<td>End Cruise</td>
<td>24,000 lb</td>
<td></td>
</tr>
<tr>
<td>Launch (XB-64)</td>
<td>60,000 lb</td>
<td></td>
</tr>
<tr>
<td>Booster</td>
<td>75,320 lb</td>
<td></td>
</tr>
<tr>
<td>Combination</td>
<td>135,320 lb</td>
<td></td>
</tr>
</tbody>
</table>

### NOTES

1. Performance Basis:
   (a) Contractor's estimates not substantiated by WADC.
2. Revision Basis: To reflect latest characteristics data and performance.
3. Future plans provide for advanced non-recoverable experimental versions which will be capable of flights to a range of 2325 nautical miles.