Characteristics Summary

**DIRECTOR DB-47E**

"STRATOJET"

BOEING

**WING AREA**
1428 sq ft
**LENGTH**
107.1 ft
**SPAN**
116.0 ft
**HEIGHT**
28.0 ft

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

**STATUS**

1. Mockup Inspection: (DB-47) Mar 55
2. Deliver 1st Operation Suitability Test Airplane: (est) Apr 56
3. Deliver 2nd Operational Suitability Test Airplane: (est) May 56

**NAVY EQUIVALENT**: None

**Mfr's Model**: 450-172-52

**POWER PLANT**

(6) J47-GE-25
**ENGINE RATINGS**

<table>
<thead>
<tr>
<th>S.L.S.</th>
<th>LB</th>
<th>RPM</th>
<th>MIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max.</td>
<td>7200</td>
<td>7950</td>
<td>5</td>
</tr>
<tr>
<td>Mil.</td>
<td>5970</td>
<td>7950</td>
<td>5</td>
</tr>
<tr>
<td>Nor.</td>
<td>5670</td>
<td>7800</td>
<td>30</td>
</tr>
</tbody>
</table>

*Wet; water flow of 650 lb/min

**No. & Model** *(33)14A81000
Thrust (lb) 35,000
Duration (sec) 14

**No. & Model** *(19)15K31000
Thrust (lb) 19,000
Duration (sec) 15

In both cases, ATO units are manufactured by Aerojet.

**FEATURES**

- Crew: 3
- Cabin Pressurization
- Thermal Anti-icing
- Ejection Seats
- MA-8 Bomb-Navigational System
- A-5 Fire Control
- Anti-Skid Brakes
- Drag Chute
- Bailout Spoiler Door
- Provisions for Vertical Camera
- Single-Point Ground and Air Refueling Provisions
- Bicycle Landing Gear
- AN/ALE-1 Chaff Dispenser
- Max Fuel Cap: 18,107 gal
- Includes (2x1700) gal Drop Tanks

**ARMAMENT**

- Turrets: 1
- Guns: 2x20mm (M24A1)
- Ammunition (tot): 700 rds
- GAM-63 "Rascal" & Guidance Control Equipment
- Same bomb capabilities as the B-47E.

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CONFIDENTIAL
### Characteristics Summary Basic Mission

**DB-47E**

- **Launch Missile**
  - At 33,600 ft
  - Drop Tanks
  - High Altitude Director Carrier

### Performance

<table>
<thead>
<tr>
<th><strong>Performance</strong></th>
<th><strong>Ferry Range</strong></th>
<th><strong>Speed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Combat Radius</strong></td>
<td>1715 naut. mi</td>
<td>COMBAT 485 knots at 33,600 ft alt, mil power</td>
</tr>
<tr>
<td>with 18,200 lb payload</td>
<td>4095 naut. mi</td>
<td>MAX 513 knots at 14,600 ft alt, mil power</td>
</tr>
<tr>
<td>at 428 knots avg.</td>
<td>with 17,949 gal fuel</td>
<td>BASIC 482 knots at 35,000 ft alt, mil power</td>
</tr>
<tr>
<td>in 8.1 hours.</td>
<td>at 431 knots avg.</td>
<td>in 9.5 hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Climb Ceiling Take-Off</strong></th>
<th><strong>Ground Run</strong></th>
<th><strong>Over 50 ft Height</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Climb</strong></td>
<td><strong>Ceiling</strong></td>
<td><strong>Take-Off</strong></td>
</tr>
<tr>
<td>1595 fpm sea level, take-off weight</td>
<td>24,800 ft 100 fpm, take-off weight</td>
<td>11,250 ft no assist 7830 ft assisted</td>
</tr>
<tr>
<td>normal power</td>
<td>normal power</td>
<td>over 50 ft height</td>
</tr>
<tr>
<td>3465 fpm sea level, combat weight</td>
<td>38,100 ft 500 fpm, combat weight</td>
<td>12,850 ft no assist 9250 ft assisted</td>
</tr>
<tr>
<td>military power</td>
<td>military power</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Load Weights</strong></th>
<th><strong>Stalling Speed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>GAM-63A Missile: 18,200 lb</td>
<td>167 knots power off, landing configuration,</td>
</tr>
<tr>
<td>Ammo: 700 rds, 20mm</td>
<td>take-off weight less 7109 lb ATO</td>
</tr>
<tr>
<td>Chaff: 845 lb</td>
<td>and 5300 lb water</td>
</tr>
<tr>
<td>Fuel: 16,910 gal</td>
<td></td>
</tr>
</tbody>
</table>
| protected 53.6 | *
| droppable 19.8 | Includes 5300 lb water and |
| external 19.8 | 7109 lb ATO |

**Notes**

1. Performance Basis:
   (a) B-47B and YDB-47E Flight Test Data (YDB-47E reference, WD-13355)
   "Phase I Flight Testing of the YDB-47E Airplane"
2. Revision Basis:
   Initial Issue

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Patterson Air Force Base
Ohio 45433

DB-47E C O N F I D E N T I A L

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