Characteristics Summary

**RECONNAISSANCE...GRB-36D(III)/RF-84F**

<table>
<thead>
<tr>
<th>Wing Area (GRB-36D)</th>
<th>4772 sq ft</th>
<th>Length (GRB-36D)</th>
<th>162.1 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>(RF-84F)</td>
<td>325 sq ft</td>
<td>(RF-84F)</td>
<td>47.5 ft</td>
</tr>
<tr>
<td>Span (GRB-36D)</td>
<td>230.0 ft</td>
<td>Height (GRB-36D)</td>
<td>46.8 ft</td>
</tr>
<tr>
<td>(RF-84F)</td>
<td>33.6 ft</td>
<td>(RF-84F)</td>
<td>15.0 ft</td>
</tr>
</tbody>
</table>

**CONSOLIDATED/REPUBLIC**

**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>
</thead>
</table>

**STATUS**

1. First Flight Prototype (Composite): Jan 52
2. First Flight Test (Production) (Composite): Aug 55
3. First Delivery (GRB-36D (III) Carrier): Feb 55
   (RF-84F Parasite): Jul 55

Mfr's Model: 36 (GRB-36D (III))
AP-23T (RF-84F)

Navy Equivalent: None

**POWER PLANT**

- GRB-36D (III)
  - (6) R-4360-41
  - Pratt & Whitney plus
  - (4) J47-GE-19
  - General Electric
  - RF-84F
    - (1) J65-5-B-3
      - Buick
    - or
    - (1) J65-W-3
      - Wright

For engine ratings refer to the respective summaries of the standard airplanes.

**FEATURES**

- GRB-36D (III)
  - Crew: 22
  - Cameras: 14
  - Thermal Anti-Icing
  - AN/APQ-24 Nav, Radar
  - AN/APG-32 Gun Laying Radar
  - AN/PX-29 Rendezvous Equip
  - Defensive & Ferret ECM
  - Release & Retrieve Mech.
  - Max Fuel Cap.: 30,630 gal
  - Tank for 1,200 gal of bomb bay
d  for the servicing of RF-84F
  - Crew: RF-84F
  - Cameras: 5
  - Hook-on Probe & Latches
  - Max Fuel Cap.: *1935 gal
  - *Max capability is possible only when aerial serviced prior to release.

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**ARMAMENT**

- GRB-36D (III)
  - Turrets: 1
  - Guns: (2) 6x20mm(M24A1)
  - Ammunition (tot): .1200 rds
  - No prov. for bombs.
  - RF-84F
    - Turrets: None
    - Guns: 4x50 cal(M-3)
    - Ammunition (tot): *400 rds

**BOMBS:**

- No. Class(lb)
  - 1 Special Store: 3575
  - 40 M-123 Photo Flash Cart: 7
  - *Space provisions for 200 rds /gun

GRB-36D(III)/RF-84F
### PERFORMANCE

<table>
<thead>
<tr>
<th>COMBAT RANGE</th>
<th>FERRY RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>3465 naut. mi</td>
<td>6450 naut. mi</td>
<td>COMBAT 516 (b) knots at 35,000 ft alt, max power</td>
</tr>
<tr>
<td>with 29,503* lb payload</td>
<td>with 29,489 gal fuel</td>
<td>(b)</td>
</tr>
<tr>
<td>at 173 knots avg.</td>
<td>at 169 knots avg.</td>
<td>MAX 565 knots at S.L. ft alt, max power</td>
</tr>
<tr>
<td>in 33.0 hours</td>
<td>in 38.2 hours</td>
<td>516 (b) knots at BASIC 35,000 ft alt, max power</td>
</tr>
<tr>
<td>Launch at 2440 n. mi.</td>
<td>at 370,000 lb T.O. wt.</td>
<td></td>
</tr>
</tbody>
</table>

### CLIMB

<table>
<thead>
<tr>
<th>C F I L I N G</th>
</tr>
</thead>
<tbody>
<tr>
<td>910 fpm</td>
</tr>
<tr>
<td>sea level, take-off weight</td>
</tr>
<tr>
<td>normal power</td>
</tr>
</tbody>
</table>

| 4700 (b) fpm | 37,100 (b) ft |
| sea level, combat weight | 500 fpm, combat weight |
| maximum power | maximum power |

### LOAD WEIGHTS

<table>
<thead>
<tr>
<th>STALLING SPEED</th>
</tr>
</thead>
</table>
| 107 knots power-off, landing config-
| uration, take-off weight |

<table>
<thead>
<tr>
<th>TIME TO CLIMB</th>
</tr>
</thead>
</table>

### NOTES

1. Performance Basis:
   (a) Calculated data based on USAF Phase IV, flight tests of B-36D & B-36F (III) aircraft plus preliminary drag estimates.
   (b) RF-84F data
2. Performance Reference: Convair Report FZA-36-308-1, dtd 1 July 1955
3. Revision Basis: To reflect configuration (III) data.