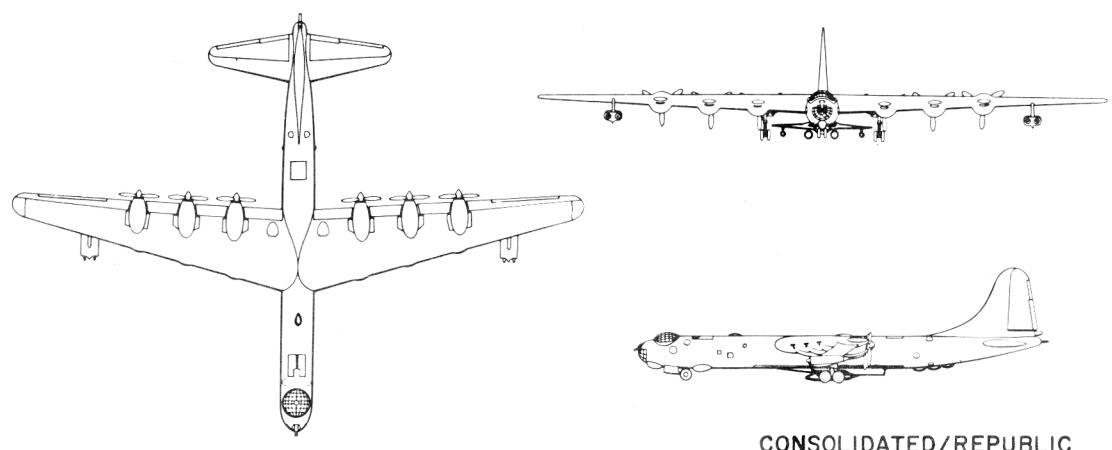


~~Unclassified~~  
~~Confidential~~  
**S E C R E T**

A-1  
GRB-36D/char  
SERVICE

# Characteristics Summary

**RECONNAISSANCE . . . . . GRB-36D/RF-84F**



CONSOLIDATED/REPUBLIC

Wing Area (GRB-36D) . . . . . 4772 sq ft	Length (GRB-36D) . . . . . 162.1 ft
(RF-84F) . . . . . 325 sq ft	(RF-84F) . . . . . 47.5 ft
Span (GRB-36D) . . . . . 230.0 ft	Height (GRB-36D) . . . . . 46.8 ft
(RF-84F) . . . . . 33.6 ft	(RF-84F) . . . . . 15.0 ft

A V A I L A B I L I T Y			P R O C U R E M E N T			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

## S T A T U S

1. First Flight Prototype (Composite): Jan 52
  2. First Flight Test (Production)(Composite): Nov 54 (est)
  3. First Delivery (GRB-36D Carrier): Sep 54 (est)  
(RF-84F Parasite): Nov 54 (est)
- Mfr's Model: 36 (GRB-36D)  
AP-23T (RF-84F)
- Navy Equivalent: None

P O W E R P L A N T
<u>GRB-36D</u>
(6) R-4360-41 Pratt & Whitney plus (4) J47-GE-19 General Electric
<u>RF-84F</u>
(1) J65-B-3 Buick or (1) J65-W-3 Wright
For engine ratings refer to the respective summaries of the standard airplanes.

F E A T U R E S
<u>GRB-36D</u>
Crew . . . . . 22
Cameras . . . . . 14
Thermal Anti-Icing
AN/APQ-24 Nav. Radar
AN/APG-32 Gun Laying Radar
AN/APX-29 Rendezvous Equip
Defensive & Ferret ECM
Release & Retrieve Mech.
Max Fuel Cap: . . 30,730 gal
Prov. for 1200 gal bomb bay tank for aerial servicing of RF-84F
<u>RF-84F</u>
Crew . . . . . 1
Cameras . . . . . 5
Hook-on Probe & Latches
Max Fuel Cap: . . . *1935 gal
*Max capability is possible only when aerial serviced prior to release.

A R M A M E N T
<u>GRB-36D</u>
Turrets . . . . . 8
Guns . . . 16x20mm(M24A1)
Ammunition (tot) . . 9200 rds
No prov. for bombs.
<u>RF-84F</u>
Turrets . . . . . None
Guns . . . . . 4x.50 cal(M-3)
Ammunition (tot) . . *400 rds
<b>BOMBS:</b>
No. . . . . Class(lb)
1 Special Store . . . . 3575
40 M-123 Photo Flash Cart: 7
*Space provisions for 200 rds /gun

Deleted; Hth Ed; Add N-10  
Dec 55

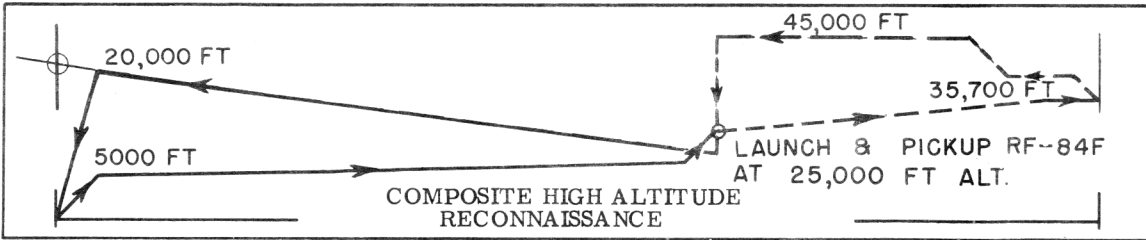
This is a plus  
on this date.

Unclassified  
Classification cancelled  
or changed to ~~Confidential~~  
AUTH: AFSC AF 10 Security Classification Guide, Apr 64  
By A.R. Somelov 31 Jul 64  
Signature and Grade FTR-7966 8 March 67

3rd Ed addn #13

53WC12000

*Characteristics Summary Basic Mission* . . . . . GRB-36D /RF-84F



<b>P E R F O R M A N C E</b>		
<b>C O M B A T R A D I U S</b>	<b>F E R R Y R A N G E</b>	<b>S P E E D</b>
3100 naut. mi with 29,233* lb payload 1389** at 223 knots avg. in 28.8 hours. Launch at 2035 n.mi.	5815 naut. mi with 26,107 gal fuel at 166 knots avg. in 34.9 hours at 370,000 lb T.O. wt.	COMBAT 513(b) knots at 35,700 ft alt, max power MAX 565(b) knots at S.L. ft alt, max power BASIC 516(b) knots at 35,000 ft alt, max power
<b>C L I M B</b>	<b>C E I L I N G</b>	<b>T A K E - O F F</b>
920 fpm sea level, take-off weight normal power	31,200 ft 100 fpm, take-off weight normal power	ground run 4430 ft   _____ ft no assist   assisted
4820(b) fpm sea level, combat weight maximum power	37,600(b) ft 500 fpm, combat weight maximum power	over 50 ft height 5735 ft   _____ ft no assist   assisted
<b>L O A D</b>	<b>W E I G H T S</b>	<b>S T A L L I N G S P E E D</b>
Parasite: *29,233 lb Cameras: ** 1389 lb  Fuel: 25,247 gal 1935 gal (b) protected (part) 50%, 30% (b) droppable 0%, 70% (b) external 0%, 70% (b)	Empty..... 164,798 lb 14,161(b) lb Combat... 22,100(b) lb  Take - off *370,000 lb Launch ** 29,233(b) lb limited by *strength **mission	107 knots power-off, landing config- uration, take-off weight
		<b>T I M E T O C L I M B</b>
		_____

**N O T E S**

- Performance Basis:
  - Contractor's estimated data.
  - RF-84F data
- Performance Reference: Convair Report FZA 36-308, dated 1 Jan 54.
- Revision Basis: To conform with MIL-C-5011A

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