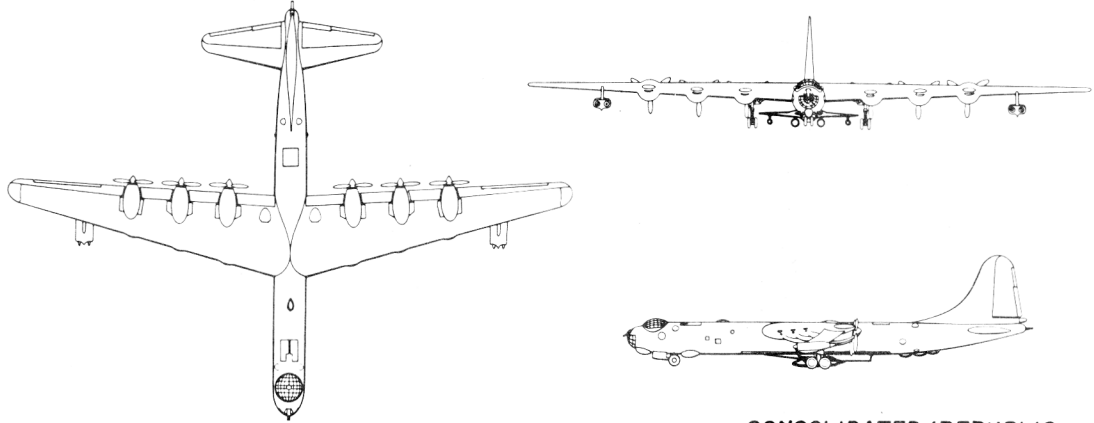


*Unclassified*  
~~Confidential~~  
**S E C R E T**

A-1  
GR) B-360/chr  
**SERVICE**

# Characteristics Summary

**RECONNAISSANCE . . . GRB-36D (III) /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): Aug 55 3. First Delivery (GRB-36D (III) Carrier): Feb. 55 (RF-84F Parasite): Jul 55	
Navy Equivalent: None	Mir's Model: 36 (GRB-36D (III) AP-23T (RF-84F)

P O W E R P L A N T
GRB-36D (III)
(6) R-4360-41 Pratt & Whitney plus (4) J47-GE-19 General Electric
RF-84F
(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
GRB-36D (III)
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: . . 30,630 gal
Prov. for 1200 gal bomb bay tank for aerial servicing of RF-84F
RF-84F
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
GRB-36D (III)
Turrets . . . . . 1
Guns . (2) 6x20mm(M24A1)
Ammunition (tot) . .1200 rds
No prov. for bombs.
RF-84F
Turrets . . . . . None
Guns . . . . . 4x.50 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

*Deleted from H. H. Ed  
Add No 24  
24 Apr 57*

*Classification cancelled  
or changed to ~~Confidential~~  
AUTH: AFSC AFK Security Class Guide 1 Jan 64  
By O. R. Somerton JH nearby  
Signature and Grade 21 Dec 1966 E Jan 68*

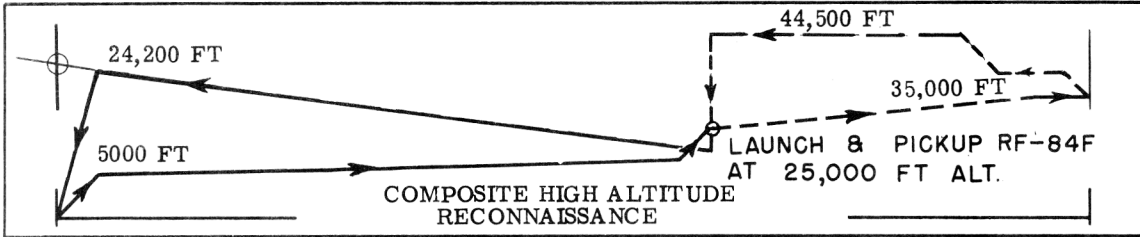
24 OCT 55

**S E C R E T**

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

*4th ed addn #10 / Dec 1955*

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



P E R F O R M A N C E		
COMBAT RADIUS	FERRY RANGE	S P E E D
3465 naut. mi with 29,503*lb payload 518** at 173 knots avg. 474(b) in 33.0 hours. Launch at 2440 n. mi.	6450 naut. mi with 29,489 gal fuel at 169 knots avg. in 38.2 hours at 370,000 lb T.O. wt.	COMBAT 516 <sup>(b)</sup> knots at 35,000 ft alt, max power MAX 565 <sup>(b)</sup> knots at S.L. ft alt, max power BASIC 516 <sup>(b)</sup> knots at 35,000 ft alt, max power
C L I M B	C F I L I N G	T A K E - O F F
910 fpm sea level, take-off weight normal power	31,500 ft 100 fpm, take-off weight normal power	ground run 4430 ft   _____ ft no assist   assisted
4700 <sup>(b)</sup> fpm sea level, combat weight maximum power	37,100 <sup>(b)</sup> ft 500 fpm, combat weight maximum power	over 50 ft height 5735 ft   _____ ft no assist   assisted
L O A D	W E I G H T S	S T A L L I N G S P E E D
Parasite: *29,503 lb Cameras: **518 lb  Fuel: 27,491 gal 1913 gal(b) protected(partial) 50% 29% (b) droppable 0% 71% (b) external 0% 71% (b)	166,207 lb Empty..... 14,462 (b) lb Combat... 22,470 (b) lb  Take - off *370,000 lb Launch **29,503 (b) lb limited by *strength **space	107 knots power-off, landing config- uration, take-off weight
		T I M E T O C L I M B
		_____

**N O T E S**

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

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