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27 Sep 56*

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B-36J/char*

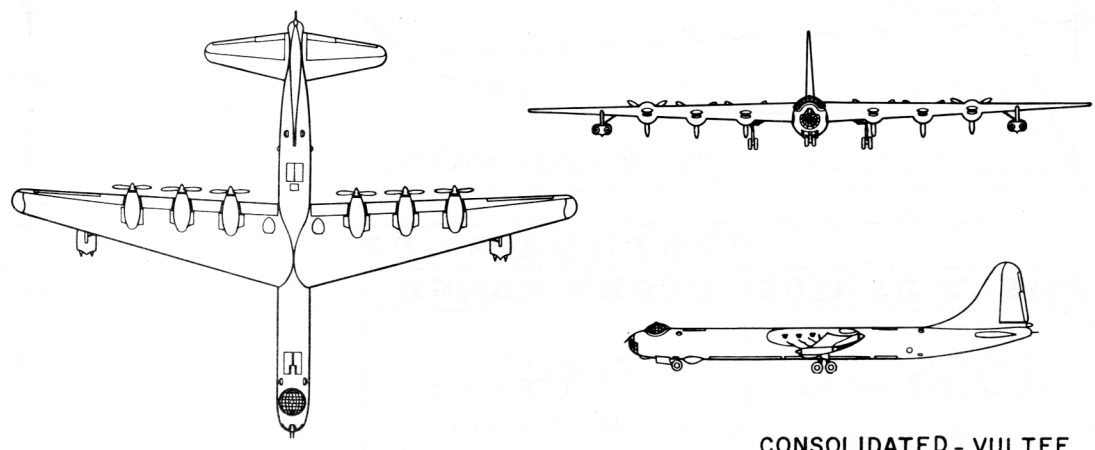
UNCLASSIFIED

Black Book

SERVICE

Characteristics Summary

BOMBER B-36J



CONSOLIDATED - VULTEE

Wing Area 4772 sq ft Length 162.1 ft
Span 230.0 ft Height 46.8 ft

AVAILABILITY

PROCUREMENT

Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

STATUS

1. First Flight Prototype: Jul 53
 2. First Delivery: Oct 53
 3. Production Completion Date: Jun 54 (est)
 4. Major differences of the B-36J from the B-36H are the addition of outboard wing panel fuel tanks and strengthened landing gear to allow take-off gross weight of 410,000 lb.
- Navy Equivalent: None Mfr's Model: 36

POWER PLANT

(6) R-4360-53
Pratt & Whitney
ENGINE RATINGS

BHP - RPM - ALT - MIN
T.O.*3800 - 2800 - S.L. - 5
Mil: *3800 - 2800 - Turbo - 30
3500 - 2800 - Turbo - 30
Nor: 2800 - 2600 - Turbo - Cont

* Wet
plus
(4) J47-GE-19
General Electric

S.L.S. LB - RPM - MIN
Max: 5200 - 7950 - 5
Mil: 5200 - 7950 - 30
Nor: 4730 - 7630 - Cont

FEATURES

Crew 15

Cabin Pressurization
Thermal Anti-icing
K-3A Bomb.-Nav. System
Chaff Dispenser
Loran
Defensive ECM
Fuel Tank Purging
AN/APG-41A Gun-Laying
Radar
Single Point Fueling

Max Fuel Cap: . . *36,396 gal

*Includes bomb bay tank and outer wing panel tanks.

ARMAMENT

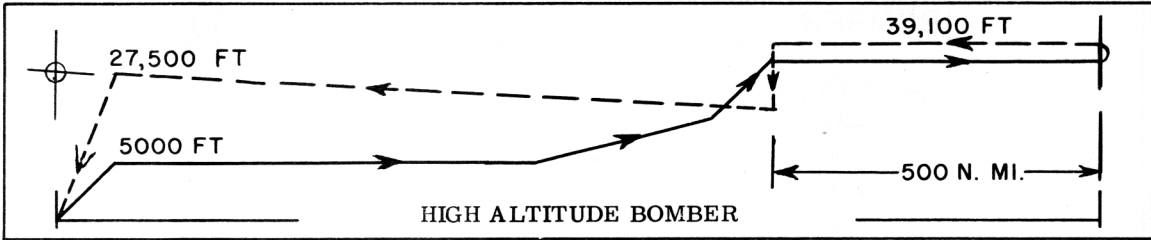
Turrets 8
Guns . . . 16x20mm(M24A1)
Ammunition(tot) . . 9200 rds

Bombs: (Max) Class Load
WW II (lb)
(Box Fin) . 12x4000/72x1000

Interim:
(Conical Fin)
. 22x2000/129x500
New Series:
. *2x43,000/*2x43,000

Note:
*(2x43,000 lb) may be carried only when gross weight does not exceed 357,500 lb. For gross weights above 357,500 lb Max Bomb Load is (72x1000lb)

Characteristics Summary Basic Mission B-36J



P E R F O R M A N C E		
COMBAT RADIUS	FERRY RANGE	S P E E D
2955 naut. mi with 11,408 lb payload at 198 knots avg. in 29.4 hours.	7144 naut. mi with 36,396 gal fuel at 188 knots avg. in 38.0 hours at 408,642 lb T.O. wt.	COMBAT 356 knots at 39,100 ft alt, max power MAX 357 knots at 36,400ft alt, max power BASIC 340 knots at 25,000 ft alt, max power
C L I M B	C E I L I N G	T A K E - O F F
720 fpm sea level, take-off weight normal power	27,400 ft 100 fpm, take-off weight normal power	ground run 5290 ft — ft no assist assisted
1920 fpm sea level, combat weight maximum power	39,900 ft 500 fpm, combat weight maximum power	over 50 ft height 6820 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
Bombs 10,000 lb Chaff 1408 lb Ammunition 9200 rds/20mm Fuel: 34,721 gal protected (part) 36.4% croppable 0% external 0%	Empty..... 171,035 lb Combat... 266,100 lb Take - off 410,000 lb limited by structure	113 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

1. Performance Basis:
 (a) Flight test
 (b) Limited by capacity without removing equipment

2. Revision Basis: To reflect revised performance.

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