

*unclassified*  
~~SECRET~~

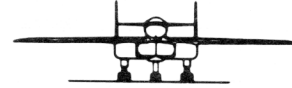
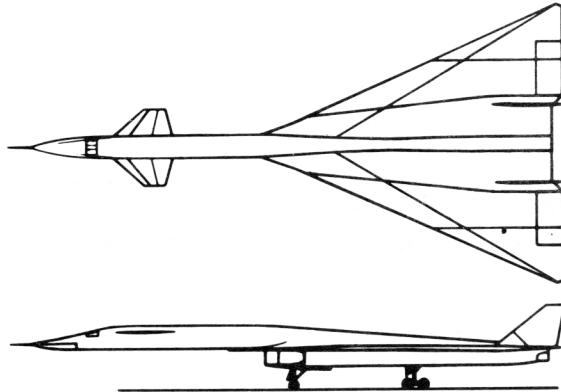
A-1  
(X)B-70B/char

~~SECRET~~

EXPERIMENTAL

# Characteristics Summary

BOMBER (SUPERSONIC) . . . . . XB-70B Air Vehicle Nr 3



**VALKYRIE**

**NORTH AMERICAN**

Wing Area . . . . . 6298 sq ft. Length . . . . . 185.8 ft.  
Span . . . . . 105.0 ft. Height . . . . . 30.7 ft.

## AVAILABILITY

## PROCUREMENT

Number available

Number to be delivered in fiscal years

TEST	INVENTORY	TOTAL	FY 65			
			1			

## STATUS

- Design Initiated: . . . . . Nov 55
- Mock-up: . . . . . Mar 59
- First Flight . . . . . Dec 64 (est)
- Prototype air vehicles are to be used to obtain test data in the B-70 flight spectrum.

Navy Equivalent: None

Mfr's Model: NA-278

## POWER PLANT

(6) YJ93-GE-3  
General Electric

S.L.S. LB -RPM - MIN

Max: \*28,000 - 6825 - Cont

Mil: 19,900 - 6825 - Cont

Nor: 17,700 - 6825 - Cont

\*With afterburner

## FEATURES

Crew . . . . . 4

Canard

Airframe constructed from steel and titanium

Variable area inlet

Convergent-divergent exhaust nozzle

Folding wing tips

ILS . . . . . AN/ARN-58

IFF radar . . . . . AN/APX-46

UHF command . . . . . AN/ARC-50

Interphone . . . . . AN/AIC-18

TACAN . . . . . AN/ARN-65

Max fuel capacity: 46,745 gal  
Grade . . . . . JP-6

## GUIDANCE

Bomb-Nav Sys . . . AN/ASQ-28

Frequency Diversity Radar with high resolution attachment

Stellar Inertial Platform

Doppler Radar

Main & Emergency Digital Computers

Operator's Console

## SPECIAL STORES

BOMBS:

Nr.

1 . . . . . Class A

2 . . . . . Class B

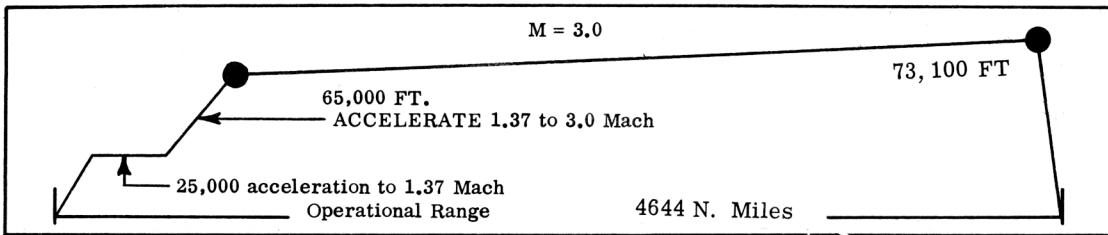
2 . . . . . Class C

6-8 . . . . . Class D

DOWNGRADED AT 3 YEAR INTERVALS;  
 DECLASSIFIED AFTER 12 YEARS  
 DOD DIR 5200.10  
 A.R. *Amphibious 29 Mar 67*  
 277 20/1/68

57WC 4983

*Characteristics Summary Basic Mission.* XB-70B Air Vehicle Nr 3



PERFORMANCE <sup>(1)</sup>		
COMBAT RADIUS	OPER. RANGE	S P E E D
NOT APPLICABLE	4644 naut. mi with 10,000 lb payload in 3.54 hours	CRUISE at max speed 1721 knots at 65,000-73,100 ft alt. min A/B
C L I M B	C E I L I N G	T A K E - O F F
7260 fpm sea level, take-off weight military power	79,250 ft 100 fpm, 291,036 lb (3) maximum power	ground run 7900 ft no assist   ft assisted
33,100 fpm sea level, 291,036 lb (3) maximum power	79,000 ft 500 fpm, 291,036 lb (3) maximum power	over 50 ft height 11,290 ft no assist   ft assisted
L O A D	W E I G H T S	MIN. SAFE SPEED
10,000 lb Store  Fuel: 45,869 gal protected 0 % droppable 0 % external 0 %	Empty..... 206,100 lb Combat .. 291,036 lb (3) Take - off 542,029 lb	163 knots T.O. wt. 109 knots Landing wt.  with canard flaps down

- N O T E S**
1. Performance Basis: Estimated data
  2. Revision Basis: Reordinated. XB-70A (Veh #3) changed to XB-70B.
  3. 291,036 lb is the weight 1200 N. Mi. prior to mission completion.