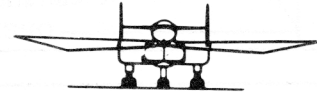
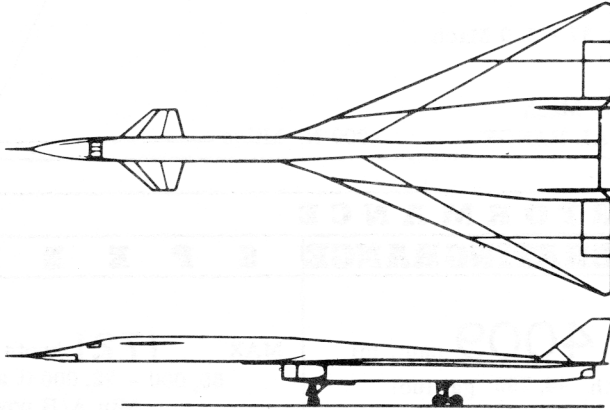


*unclassified*  
~~CONFIDENTIAL~~

*A1*  
*(XB-70A/char)*  
EXPERIMENTAL

# Characteristics Summary

BOMBER (SUPERSONIC) . . . . . XB-70A Air Vehicle Nr 2



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, Air Vehicle Nr 2 . May 65(est)
- Primary purpose of the vehicles is to demonstrate airworthiness in a sustained Mach 3 high altitude environment.

## 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 . . . . . 2
- 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: 47,470 gal  
Grade . . . . . JP-6

## SPECIAL STORES

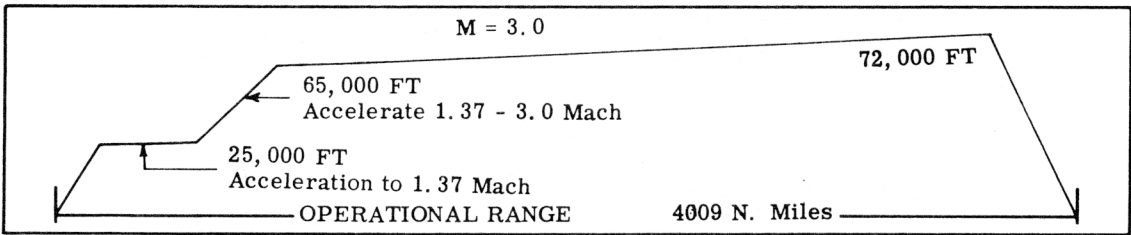
NOT APPLICABLE

DOWNGRADED AT 3 YEAR INTERVALS;  
DECLASSIFIED AFTER 12 YEARS  
DOD DIR 5200.10

Classification cancelled  
or changed to *unclassified*  
AUTHORITY *AW 49507WJSP Dated 25 Aug 71*  
BY *William M. White, GS-9, 319777*  
Specialist SAC Charts  
Signature and Grade

~~CONFIDENTIAL~~

*Characteristics Summary Basic Mission* . XB-70A Air Vehicle Nr 2



<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>O P E R A T I N G R A N G E</b>	<b>S P E E D</b>
NOT APPLICABLE	4009 naut. mi with 44,795 gal fuel at knots avg. in 3.04 hours at 542,029 lb T.O. wt.	MAX 1721 knots at 65,000 - 72,000 ft alt, Min A/B power
<b>C L I M B</b>	<b>C R U I Z I N G</b>	<b>T A K E - O F F</b>
6830 fpm sea level, take-off weight military power	77,100 ft 100 fpm, combat weight max. power	ground run 8100 ft   _____ ft no assist   assisted
30,600 fpm sea level, combat weight maximum power	76,850 ft 500 fpm, combat weight maximum power	over 50 ft height 11,500 ft   _____ ft no assist   assisted
<b>L O A D</b>	<b>W E I G H T S</b>	<b>M I N . S A F E S P E E D</b>
Fuel: 44,795 gal protected % droppable % external % Density: JP-6 lb/gal (6.55)	Empty..... 228,965 lb	163.4 Knots - T. O. Wt 112.4 knots - Landing Wt
	Combat... 310,505 lb	<b>T I M E T O C L I M B</b>
	Take - off 542,029 lb	

**N O T E S**

1. Performance Basis:  
 (a) Based on current estimated weight of air vehicle. Flight test instrumentation & instrumentation package not included.  
 (b) 310,505 lbs is the weight 1200 n. miles prior to mission completion.  
 Revision Basis: To reflect latest characteristics and performance based on increased vehicle weight.