

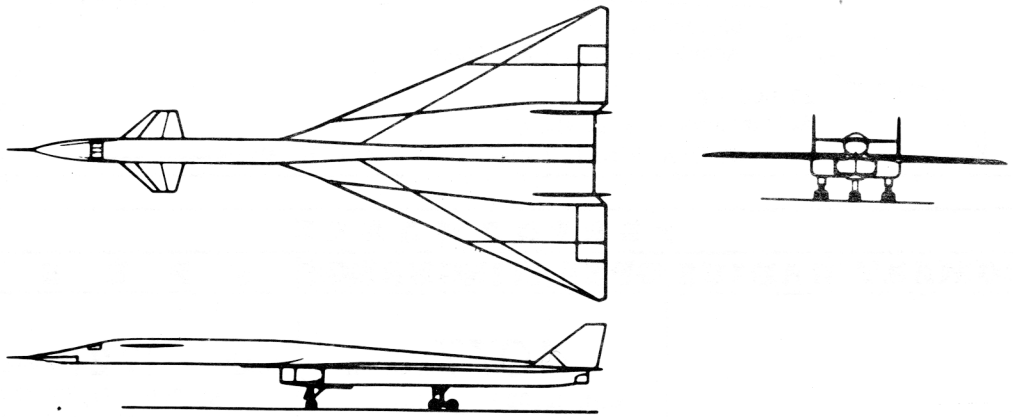
~~CONFIDENTIAL~~  
unclassified

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 1 . . . . Aug 64(est)
- First Flight, Air Vehicle Nr 2.. Nov 64(est)
- Experimental 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 . . . . . 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: 42,326 gal  
 Grade . . . . . JP-6

### SPECIAL STORES

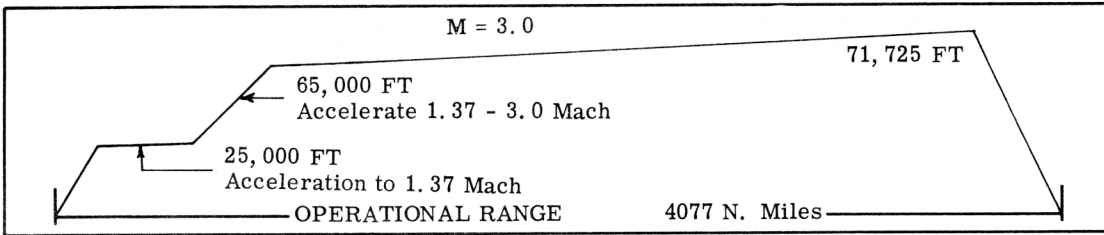
NOT APPLICABLE

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

J. M. White 3/4/77

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



<b>P E R F O R M A N C E</b>		
<b>COMBAT RADIUS</b>	<b>OPERATING RANGE</b>	<b>S P E E D</b>
NOT APPLICABLE	4077 naut. mi with 42,326 gal fuel at _____ knots avg. in 3.19 hours at 542,029 lb T.O. wt.	MAX 1721 knots at 65,000 - 71,725 ft alt, Min A/B power
<b>C L I M B</b>	<b>C R O I L I N G</b>	<b>T A K E - O F F</b>
7279 fpm sea level, take-off weight military power	77,100 ft 100 fpm, combat weight max. power	ground run 7900 ft   _____ ft no assist   assisted
30,017 fpm sea level, combat weight maximum power	76,850 ft 500 fpm, combat weight maximum power	over 50 ft height 11290 ft   _____ ft no assist   assisted
<b>L O A D</b>	<b>W E I G H T S</b>	<b>MIN. SAFE SPEED</b>
Fuel: 42,326 gal protected _____ % droppable _____ % external _____ % Density: JP-6 lb/gal ( 6.7)	Empty..... 248,600 lb Combat... 319,486 lb Take - off 542,029 lb	163 Knots - T. O. Wt 114.7 knots - Landing Wt
		<b>T I M E T O C L I M B</b>

**N O T E S**

1. Performance Basis:  
 (a) Based on current estimated weight of air vehicle including ballast, flight test instrumentation & instrumentation package.  
 (b) 319,486 lbs is the weight 1200 n. miles prior to mission completion.  
 Revision Basis: XB-70A Air Vehicle Nr 1 & 2 now shown on separate summaries  
 XB-70B Air Vehicle Nr 3 terminated.