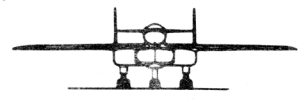
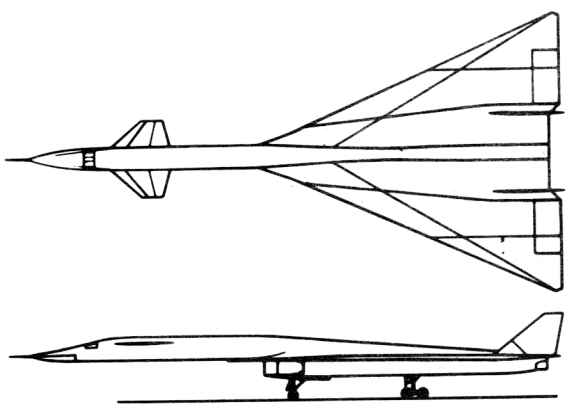


*unclassified*  
~~CONFIDENTIAL~~

*A1*  
*(X)B-70A/char*  
EXPERIMENTAL

# Characteristics Summary

**BOMBER (SUPERSONIC) . . . . . XB-70A Air Vehicle Nr 1**



**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.
  - Roll out at contractor's plant. . 11 May 64
- 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: 40,108 gal  
Grade . . . . . JP-6

### SPECIAL STORES

NOT APPLICABLE

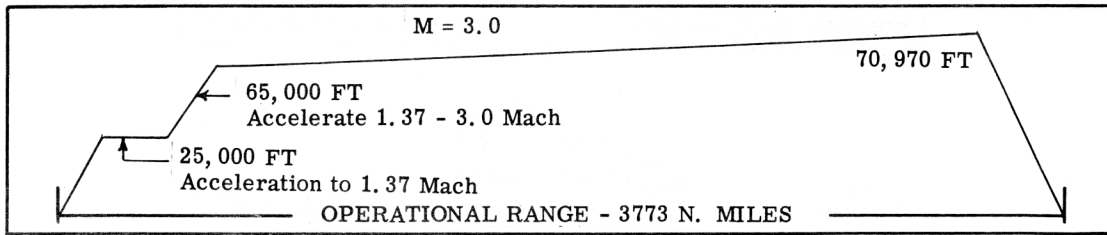
v.l.m. White 3/4/77  
DOWNGRADED AT 3 YEAR INTERVALS;  
DECLASSIFIED AFTER 12 YEARS  
DOD DIR 5200.10

11 May 64  
(AFG 1, Addn 63)

~~CONFIDENTIAL~~

XB-70A Air Vehicle Nr 1  
System 110A

*Characteristics Summary Basic Mission* . . . XB-70A Air Vehicle Nr 1



<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	<b>3773</b> naut. mi with 40,108 gal fuel at ——— knots avg. in 3.01 hours at 533,105 lb T.O. wt.	MAX <b>1721</b> knots at 65,000-70,920 ft alt, min A/B power
<b>C L I M B</b>	<b>C F I L I N G</b>	<b>T A K E - O F F</b>
<b>7400</b> fpm sea level, take-off weight mil power	<b>76,900</b> ft 100 fpm, combat weight max power	ground run <b>7600</b> ft   ——— ft no assist   assisted
<b>29,372</b> fpm sea level, combat weight maximum power	<b>76,600</b> ft 500 fpm, combat weight maximum power	over 50 ft height <b>10900</b> 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: 40,108 gal protected ——— % droppable ——— % external ——— % Density: JP-6 lb/gal ( 6.7 )	Empty..... 254,539 lb Combat... 326,502 lb Take - off 533,105 lb	<b>162</b> knots - T. O. Wt. <b>116</b> 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) Performance is based on current estimated weight of air vehicle including ballast, flight test instrumentation and instrumentation package.
- (b) 326,502 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