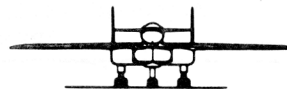
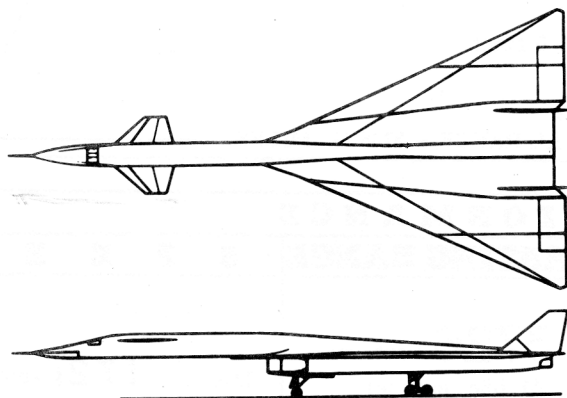


Unclassified
~~CONFIDENTIAL~~

EXPERIMENTAL

Characteristics Summary

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



VALKYRIE

NORTH AMERICAN

Wing Area 6297 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 Sep 64
- Experimental air vehicle is to be used to obtain test data in the B-70 flight spectrum.
- Roll out at contractor's plant11 May 64
- Vehicle Nr 2 was destroyed8 Jun 66
- Project transferred to NASA Mar 67

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

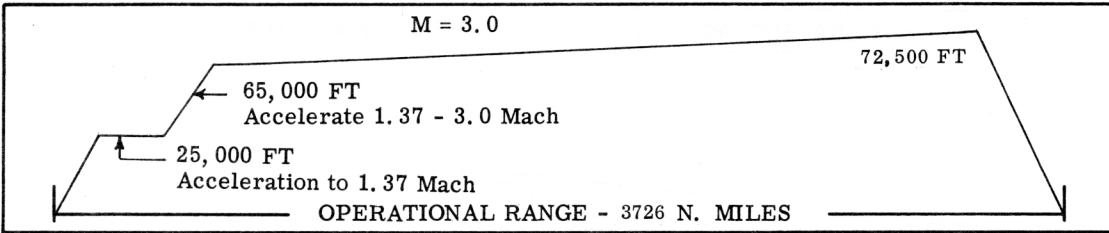
Max fuel capacity: 43,646 gal
Grade JP-6

SPECIAL STORES

NOT APPLICABLE

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

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



P E R F O R M A N C E		
C O M B A T R A D I U S	O P E R A T I N G R A N G E	S P E E D
NOT APPLICABLE	3726 naut. mi with 41,688 gal fuel at _____ knots avg. in 3.00 hours at 521,056 lb T.O. wt.	MAX 1721 knots at 65,000-72,500 ft alt, min A/B power
C L I M B	C F I L I N G	T A K E - O F F
7170 fpm sea level, take-off weight mil power	77,350 ft 100 fpm, combat weight max power	ground run 7400 ft _____ ft no assist assisted
30,380 fpm sea level, combat weight maximum power	77,100 ft 500 fpm, combat weight maximum power	over 50 ft height 10,550 ft _____ ft no assist assisted
L O A D	W E I G H T S	M I N . S A F E S P E E D
Fuel: 41,688 gal protected _____ % droppable _____ % external _____ % Density: JP-6 lb/gal (6.55)	Empty..... 231,215 lb	160.5 knots - T. O. Wt.
	Combat... 309,590 lb	112.3 knots-Landing Wt
	Take - off 521,056 lb	T I M E T O C L I M B

N O T E S

1. Performance Basis:

- (a) Performance is based on actual empty weight of air vehicle.
Flight test instrumentation and instrumentation package not included.
- (b) 309,590 lbs is the weight 1200 N Miles prior to mission completion
- (c) Aircraft uses either JP-5 or JP-6 fuels

Revision Basis: To reflect latest characteristics and performance.