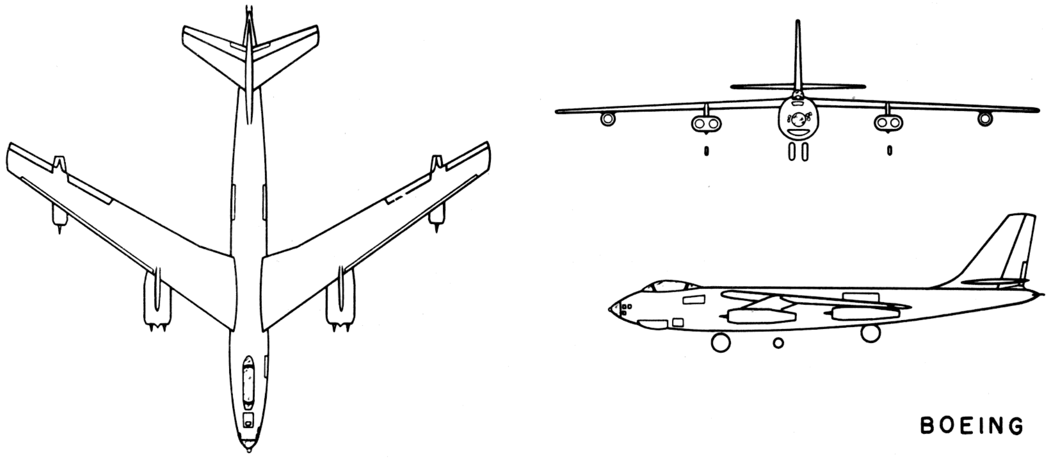
A-1
(X)B-47/char

~~CONFIDENTIAL~~ EXPERIMENTAL

Initial Issue

Characteristics Summary

BOMBER XB-47



BOEING

Deleted; listed; 1st Ed; dated 1 Dec 49
omitted; 2nd Ed; 1 May 51

Wing area	1427 sq ft	Length	107.5 ft
Span	116.0 ft	Height	27.7 ft

AVAILABILITY			PROCUREMENT			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

STATUS

EXPERIMENTAL

1. Design initiated: December 1945
2. Mock-up date: April 1946
3. First flight (with J35's) 17 December 1947
4. First flight (with J47's): 8 October 1949
5. Two experimental articles completed; No. 1 and No. 2 airplanes accepted 29 November 1948 and 18 December 1948 respectively
6. Data here shown are based on airplane model specification (see Note 2).

POWER PLANT

(4) J35-GE-7 and (2) -9
General Electric

ENGINE RATINGS

S.L.Static	LB - RPM
Max:	3750 - 7700
Mil:	3750 - 7700
Nor:	3270 - 7400

ATO

No.Units:	18
Thrust lb (ea):	1000
Duration (sec.):	14

FEATURES

Crew: 3
*Vertical Camera Installation
Cabin Pressurization, Heating and Cooling
Thermal Anti-icing
*Bombing-Navigation Radar
Max Fuel Capacity Provisions 11,549 gal.

*XB-47 airplanes are accepted did not include these items in their entirety.

ARMAMENT

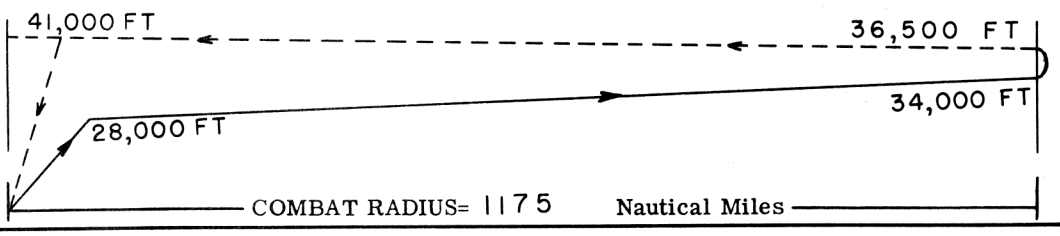
Turrets:	1*
Guns:	(2) .50 cal*
Ammunition (tot.):	1200 rds*
Max Bomb Load:	22,000 lb
Max Bomb Size:	22,000 lb

*XB-47 airplanes as accepted did not include these items in their entirety.

Classification cancelled
or changed to Unclassified
AUTH: AFSC AF ... DOD Dir 5200.10
By G.R. ... Signature and Grade 13 Dec 1966

1 Dec 1949 addn

Characteristics Summary Basic Mission ····· XB-47



PERFORMANCE

COMBAT RADIUS	COMBAT RANGE	COMBAT SPEED
1175 naut. mi with 10,000 lb payload at 405 knots avg. in 5.8 hours.	2300 naut. mi with 10,000 lb payload at 405 knots avg. in 5.7 hours.	462 knots at 35,000 ft alt, max power
		MAXIMUM SPEED
		502 knots at 15,000 ft alt, max power
C L I M B	**C E I L I N G**	**T A K E - O F F**
1550 fpm sea level, take-off weight normal power	27,000 ft 100 fpm, take-off weight normal power	ground run 11,900 ft no assist 4800 ft (d) assisted
3650 fpm sea level, combat weight maximum power	37,500 ft 500 fpm, combat weight maximum power	over 50 ft height 13,350 ft no assist 5120 ft (d) assisted
L O A D	**W E I G H T S**	**STALLING SPEED**
Bombs: 10,000 lb Ammunition: 1200 rds/.50 cal Fuel: 9957 gal protected 100 % droppable 5 % external 0 %	Empty..... 74,623 lb Combat... 109,000 lb Take - off 162,500 lb limited by performance	129 knots flaps down, take-off weight
		TIME TO CLIMB
		———

N O T E S

1. PERFORMANCE BASIS:
   (a) Flight test and estimated data
   (b) Fuel density: 6.7 lb/gal
   (c) In computing radius and range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.
   (d) Based on 20x1000 lb thrust rockets
2. The XB-47 covered in this analysis is the original prototype airplane described in model specification dated 21 May 1948 and Boeing document D-9194 dated 28 July 1949. No. 1 airplane presently utilizes J47 engines and will have an acid aniline ATO system installed in Spring 1950 No. 2 airplane presently utilizes J35 engines. Future ATO system on both airplanes will be 20x1000 lb thrust solid rockets (60 seconds duration).
3. REVISION BASIS: Initial issue