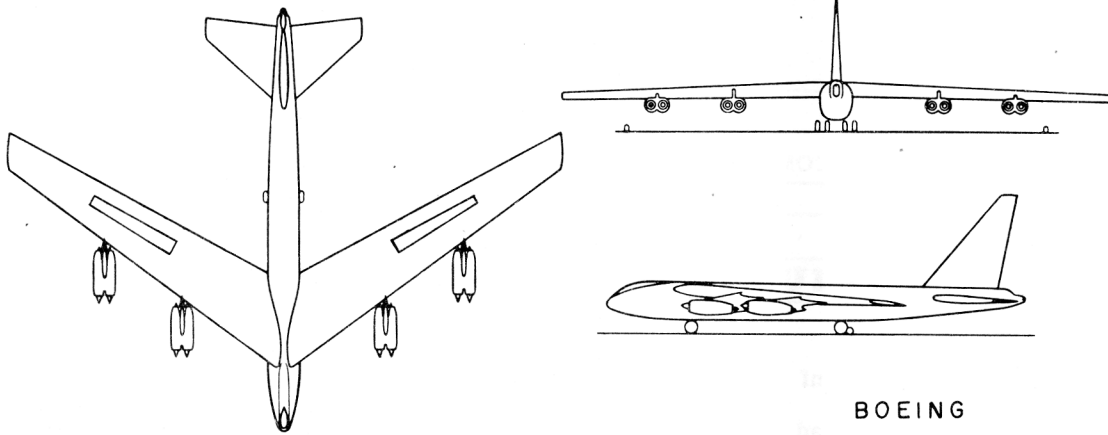


# Characteristics Summary

BOMBER-----XB-52



BOEING

Wing area ..... 4000 sq ft      Length ..... 143.1 ft

Span ..... 185.0 ft      Height ..... 46.2 ft

### AVAILABILITY

### PROCUREMENT

Number available

Number to be delivered in fiscal years

ACTIVE	RESERVE	TOTAL				

### STATUS

- Design initiated: 27 October 1948
- Mock-up inspection: 26 April 1949
- Engineering acceptance inspection: April 1951 (estimated)
- First flight: 1st article (with J40 engines), June 1951 (estimated); 2nd article, December 1951 (estimated)
- Construction has been initiated.
- First article (stripped) will utilize J40-WE-6 for preliminary flight tests. YJ57-P-3 will be installed in second article. However, tentative plans call for reworking this engine into a future model of higher rating as shown below.

PRELIMINARY

### POWER PLANT

(8) XJ57-P-( )  
Pratt-Whitney  
ENGINE RATINGS  
S.L.Static      LB - RPM  
Max:            9250 -  
Mil:            9250 -  
Nor:            8600 -

Note: All performance based on above ratings

### FEATURES

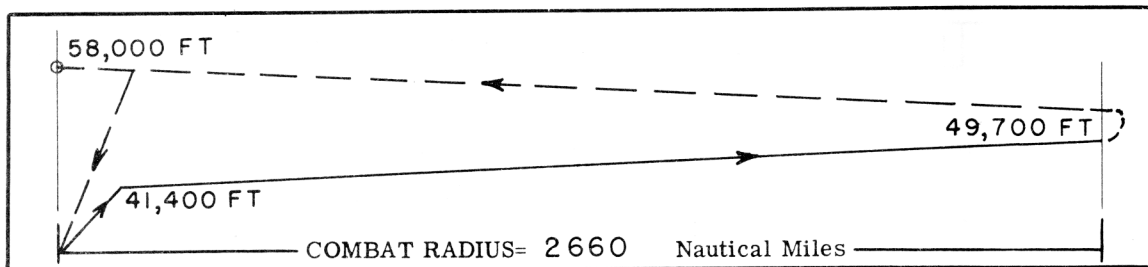
Crew: 5  
Cabin Pressurization  
Bombing-Navig. Radar  
Gun-Laying Radar  
K-1 Bombing System  
Quadricycle Landing Gear  
Vertical Camera Station  
Braking Parachute  
ATO: 4x4 to 5000 lb (60 seconds)  
Max Fuel Capacity: 28,670 gal

### ARMAMENT

Turrets: 1  
Guns: (2) .50 cal  
Ammunition (tot): 1200 rds  
Max Bomb Load: 25,000 lb  
Max Bomb Size: 25,000 lb

THIS DOCUMENT IS UNCLASSIFIED  
 DATE 03-28-2001 BY 60322 UCBAW/STP/STP  
 AUTHORITY: 48 CFR 1.101(a)(4)

*Characteristics Summary Basic Mission* .....XB-52



PERFORMANCE		
COMBAT RADIUS	COMBAT RANGE	COMBAT SPEED
<b>2660</b> naut. mi with 10,000 lb payload at 453 knots avg. in 11.9 hours.	<b>5270</b> naut. mi with 10,000 lb payload at 456 knots avg. in 11.7 hours.	<b>526</b> knots at 35,000 ft alt, max power
		<b>MAXIMUM SPEED</b>
		<b>538</b> knots at 20,000 ft alt, max power
CLIMB	CEILING	TAKE-OFF
<b>3000</b> fpm sea level, take-off weight normal power	<b>43,500</b> ft 100 fpm, take-off weight normal power	ground run <b>5300</b> ft no assist   — ft assisted
<b>5300</b> fpm sea level, combat weight maximum power	<b>49,400</b> ft 500 fpm, combat weight maximum power	over 50 ft height <b>5630</b> ft no assist   — ft assisted
LOAD	WEIGHTS	STALLING SPEED
Bombs: 10,000 lb Ammunition: 1200 rds/.50 cal  Fuel: 27,417 gal protected 73 % droppable 0 % external 0 %	Empty..... 152,300 lb Combat... 228,900 lb Take - off 330,000 lb  limited by strength	<b>117</b> knots flaps down, take-off weight
		<b>TIME TO CLIMB</b>
		_____

**N O T E S**

1. PERFORMANCE BASIS:  
 (a) Estimated data  
 (b) Fuel density: 6.0 lb/gal  
 (c) In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variations of fuel flow in service aircraft.  
 (d) Variable exit tail pipe version of Pratt-Whitney XJ57-P-1 engine specification No. A-1620, dated 26 May 1949

2. REVISION BASIS: To reflect change in max fuel capacity, length of fuselage and clarification of development status.