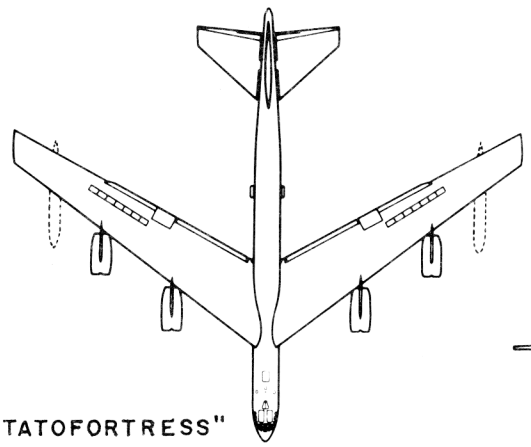
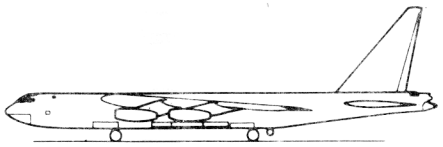
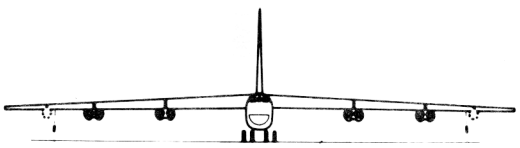
Characteristics Summary

BOMBER B-52E







"STATOFORTRESS" BOEING

Wing Area . . . . . 4000 sq ft
Span . . . . . 185.0 ft
Length . . . . . 156.5 ft
Height (overall) . . . . . 48.3 ft
Height (fin folded) . . . . . 21.5 ft

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

STATUS

1. Design initiated: May 53
2. First flight: Nov 57
3. First delivery to SAC: Dec 57
4. The B-52E airplane is similar to the B-52D except for change in bombing-navigational system. The B-52E utilizes the ASB-4 system which is effective on the 259th production B-52

Navy Equivalent: None

Mfr's Model: 464-259

POWER PLANT

(8) J57-P-19W or 29WA
Pratt & Whitney
ENGINE RATINGS

S.L.S	LB -	**RPM	-MIN
Max:	*12,100	-6450/9900	-5
Mil:	10,500	-6150/9900	-30
Nor:	9000	-5900/9650	-Cont

* Wet
** First figure represents low pressure spool; second figure represents high pressure spool.

FEATURES

Crew 6
Cabin pressurization, heating and cooling
Braking parachute
Quadricycle landing gear
Aerodynamic spoilers (air-brake)
Strike camera station
AN/ASB-4 bombing-navig system
MD-9 fire control system
Folding fin
Engine-driven alternators & hydraulic packs
Liquid oxygen system
Crosswind landing gear

Max fuel cap: 41,550 gal

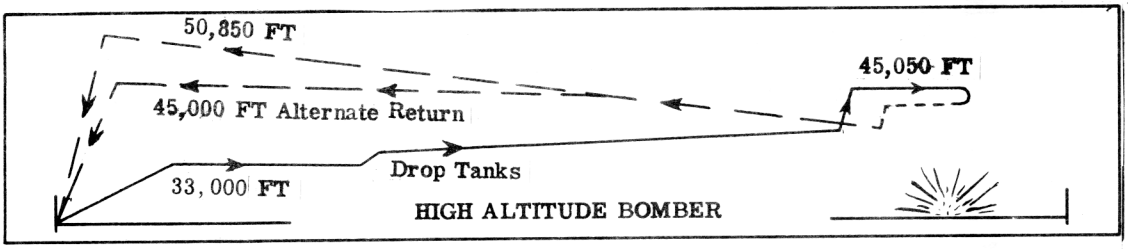
ARMAMENT

Turret 1
Guns . . . . 4 x .50 cal (M-3)
Ammunition (tot) . . 2400 rds
BOMBS:

Nr	Class (lb)
New Series	
27(Family of Clusters)	1000
Special Weapons	
2	MK21
2	MK15

Note: Structural provisions for 50,000 lb bomb; airplane will carry 4 ADM-20 and 2 AGM-28 missiles

Characteristics Summary Basic Mission B-52E



PERFORMANCE

COMBAT RADIUS	FERRY RANGE	SPEED
3320 naut. mi with 10,000 lb payload at 453 knots avg. in 14.73 hours.	6842 naut. mi with 41,550 gal fuel. at 453 knots avg. in 15.14 hours (c) at 442,165 lb T.O. wt.	COMBAT 495 knots at 45,050 ft alt, max power MAX 551 (d) knots at 20,200 ft alt, max power BASIC 520 knots at 35,000 ft alt, max power

CLIMB	CEILING	TAKE-OFF
2225 fpm sea level, take-off weight normal power	37,550 ft 100 fpm, take-off weight normal power	ground run 8000 ft no assist
5310 fpm sea level, combat weight military power	46,350 ft 500 fpm, combat weight military power	over 50 ft height 10,300 ft no assist

LOAD	WEIGHTS	STALLING SPEED
Bombs: 10,000 lb Ammunition: 2400 rds/.50 cal Fuel: 41,217 gal protected 61.6 % droppable 14.4 % external 14.4 %	Empty..... 163,752 lb Combat... 282,600 lb (b) Take-off 450,000 lb limited by structure	147 knots, initial buffet power-off, landing configuration, take-off weight **TIME TO CLIMB** 21.5 min to cruise altitude of 33,000 ft

NOTES

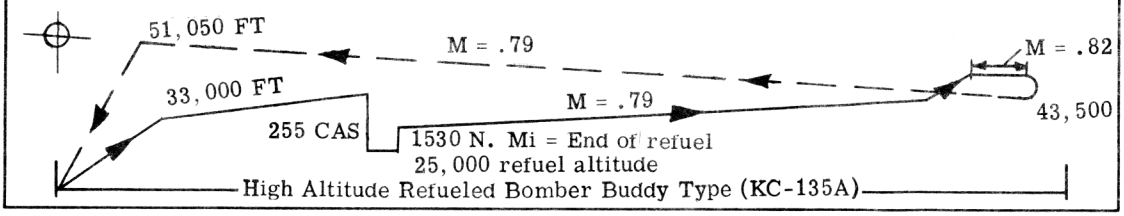
1. Performance Basis:
   - (a) Data Source: Flight tests
   - (b) Excludes 2500 lb water
   - (c) Limited by fuel capacity
   - (d) Limited by structure
   - (e) O.W.E. increases approximately 2000 lb on B-52 airplanes utilizing the J57-P-29WA engines resulting in a minor range decrease for a given T.O. weight.
2. Performance Reference: Boeing Document D-15134B "Substantiating Data Report - Models B-52B (-19W engines), B-52C and B-52D Standard Aircraft Characteristics Charts", 14 May 1957.
3. Revision Basis: To include "Buddy Type" refueling mission.

SERVICE

Characteristics Summary Basic Mission

B-52E

SUPPLEMENTAL



High Altitude Refueled Bomber Buddy Type (KC-135A)

PERFORMANCE

COMBAT RADIUS	FERRY RANGE	S P E E D
4218 naut. mi with 10,000 lb payload at 460 knots avg. in 21.2 hours.	——— naut. mi with ——— gal fuel at ——— knots avg. in ——— hours at ——— lb T.O. wt.	COMBAT 43,500 **486** knots at ft alt, mil power MAX 20,200 **551** (C) knots at ft alt, mil power BASIC 35,000 **518** knots at ft alt, mil power
C L I M B	**C E I L I N G**	**T A K E - O F F**
2100 fpm sea level, take-off weight normal power	**38,800** ft 100 fpm, take-off weight normal power	ground run **8000** ft no assist
4600 fpm sea level, combat weight military power	**43,900** ft 500 fpm, combat weight military power	over 50 ft height **10,300** ft no assist
L O A D	**W E I G H T S**	**STALLING SPEED**
Bombs: 10,000 lb Ammunition: 2400 rds/.50 cal Fuel: 41,217 gal protected 61.6 % droppable 14.4 % external 14.4 % Density: JP-4 lb/gal (6.5)	Empty..... 163,752 lb Combat... 320,000 lb Take - off (b) 450,000 lb limited by structure	**147** Knots, initial buffet power-off, landing configuration, take-off weight **TIME TO CLIMB** 21.5 min to cruise altitude of 33,000 ft.

NOTES

1. Performance Basis:
   (a) Data Source: Flight Tests
   (b) Excludes 2500 lb water
   (c) Limited by structure
   (d) O.W.E. increases approximately 2000 lb on B-52 airplanes utilizing the J57-P-29WA engines resulting in a minor range decrease for a given T.O. weight.

2. Revision Basis: To include "Buddy Type" refuel mission.