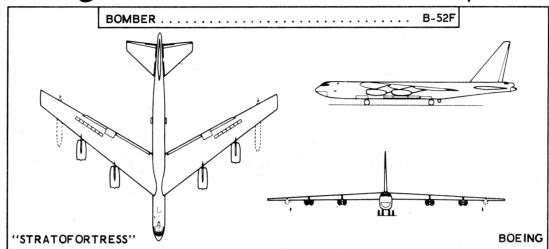
# Characteristics Summary



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

	AVAILABILITY			PI	ROCUI	REME	T
	Nu	mber available (As of 1 Sep 63	e 3)	Numb	per to be delive	ered in fiscal	years
ſ	TEST	INVENTORY	TOTAL	FY 63			
Γ	1	85	86	0			

#### STATUS

- 1. The B-52F airplane differs from the B-52C, D, E by the installation of the J57-P-43WA engines in place of the J57-P-19W, 29W, and installation of engine driven alternators.
- stallation of engine driven alternators.

  2. Modification of the wing structure, addition of new pods; improvement to water injection sys-Navy Equivalent: None
- tem are items necessary for incorporation of the J57-P-43WA engines.
- the 537-F-50WA engines.

  3. Program Initiated: . . . . Nov 54

  4. First Flight: . . . . Mar 58

  5. First Acceptance: . . . . May 58
- 6. Out of production: . . . . Dec 58

  Mfr's Model: 464-260

### POWER PLANT (8) J57-P-43WA\*\*\*

Pratt & Whitney
ENGINE RATINGS

SLS LB - \*\*RPM - MIN
Max:\*13,750-6900/9650- 5
Mil: 11,200-6400/9650- 30
Nor: 9,500-6100/9350-Cont
\* Wet

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

\*\*\*Equipped with sound suppressors.

NOTE: At present there are no requirements for ATO.

#### FEATURES

Crew . . . . . . . . . 6
Cabin pressurization, heating and cooling
Braking parachute

Quadricycle landing gear Aerodynamic spoilers (airbrake)

Strike camera station

ASB-4A high speed bombing radar

MD-9 fire control system Folding fin Crosswind steering Engine driven alternators Pneumatic driven hyd. packs Anti-Skid Brakes

A/A42G-11 Auto. Flt. Control Max fuel cap: 41,553 gal

### ARMAMENT

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

No.

New Series 27 (Family of Clusters) (1000 lb ea)

. Special Weapons

MK-15 MK-36

MK-39 MK-41

MK-43 MK-28

NOTE: Airplane will carry 4 ADM-20A & 2 AGM-28A

Missiles

Max Bomb Load: (2)17, 700 11

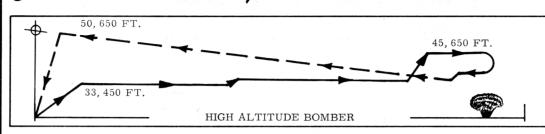
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UNCLASSIFIED

B-52F (System 101A) (pg 1 of 3)

### Characteristics Summary Basic Mission ..... B-52F



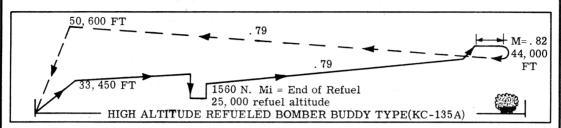
	PERFORMANCI	2
COMBAT RADIUS	FERRY RANGE	SPEED
3345 naut. mi with 10,000/400 lb payload at 454 knots avg. in 14.81 hours.	(c) with 41,553 gal fuel (b) at 454 knots avg. in 15.28 hours at 443,393 lb T.O. wt.	COMBAT 495 knots at 45,650 ft alt, mil power  MAX 553 knots at 20,500 ft alt, mil power  BASIC 521 knots at 35,000 ft alt, mil power
CLIMB	CFILING	TAKE-OFF
2300 fpm sea level, take-off weight normal power	37,800 ft 100 fpm, take-off weight normal power	ground run 7000 ft Max Power
5680 fpm sea level, combat weight military power	46,600 ft 500 fpm, combat weight military power	over 50 ft height  9100 ft Max Power
LOAD	WEIGHTS	STALLING SPEED
Bombs/Chaff: 10,000/400 lb Ammunition 2400 rds/.50 cal	Empty 164,936 lb	147 knots initial buffet power-off, landing configuration, take-off weight.
Fuel: 40,970 gal protected 0 % droppable 14.4 % external 14.4 % Density:(JP-4) lb/gal (6.5)	(b) Take - off 450,000 lb  limited by structure (inflight)	TIME TO CLIMB  19.8 min to cruise altitude of 33, 450 ft

#### S N 0 T E

- 1. Performance Basis:

  - (a) Data Source: Flight Test(b) Does not include 10,000 lb water
  - (c) Limited fuel capacity
  - (d) Limited by structure
- 2. Revision Basis: Data recoordinated by OCAMA July 64.

## Characteristics Summary Basic Mission ..... B-52F



PERFORMANCE								
COMBAT RADIUS	FERRY RANGE	S P E E D						
(e) 4160 naut. mi 10,000/400 lb payload at 460 knots avg. in 20.5 hours.	naut. mi (c) with 41,553 gal fuel at knots avg. in hours at 443,393 lb T.O. wt.	COMBAT 49 0 knots at ft alt, max power (d)  MAX 553 knots at ft alt, max power  BASIC 52 knots at ft alt, max power  BASIC 35,000 ft alt, max power						
CLIMB	CEILING	TAKE-OFF						
2300 fpm sea level, take-off weight normal power	37,800 ft 100 fpm, take-off weight normal power	ground run  7000 ft no assist max power						
4850 fpm sea level, combat weight military power	45,600 ft 500 fpm, combat weight military power	over 50 ft height  9100 ft no assist max power						
LOAD	WEIGHTS	STALLING SPEED						
Bombo/Chaff: 10, 000/400 lb Ammunition 2400 rds/. 50 cal	Empty 164, 936 lb Combat 320, 000 lb	147 knots power-off,landing configuration,take-off weight						
Fuel: 40,970 gal protected 0 %	r v	TIME TO CLIMB						
protected 0 % droppable 14.4 % external 14.4 % Density: JP-4 lb/gal (6.5)	(b) Take - off 450,000 lb limited by structure (inflight)	20.0 min to cruise altitude of 33, 450 ft.						

#### NOTES

- 1. Performance Basis:
  - (a) Data Source: Flight Test
  - (b) Does not include 10,000 lb water
  - (c) Limited fuel capacity
  - (d) Limited by structure
  - (e) Surge valves closed; 3000 gal tanks on for refuel. Increase range by 2. 4% when tanks are dropped after refuel.
- 2. Revision Basis: Data recoordinated by OCAMA July 64.