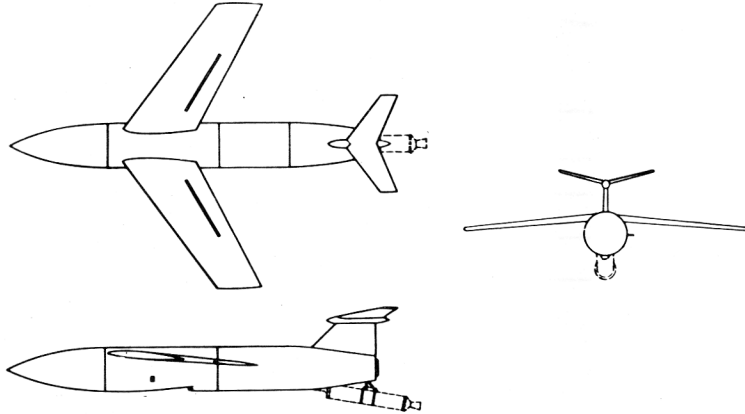


~~CONFIDENTIAL~~

SURFACE-SURFACE

Characteristics Summary

BOMBER B-61A



"MATADOR"

MARTIN

Wing Area 180.0 sq ft Length 39.6 ft
Span 28.7 ft Height 9.7 ft

AVAILABILITY

PROCUREMENT

Number available

Number to be delivered in fiscal years

ACTIVE	RESERVE	TOTAL				

STATUS

1. Project Initiated: Aug 45
2. First Flight (prod. article): Nov 52
3. First Flight (XSSM-A-1): 19 Jan 49
4. First Flight (YB-61): 22 Dec 50

POWER PLANT

(1) J33-A-37
Allison

THRUST RATINGS

S.L.S. LB - RPM - MIN
Max: 4600 - 11,750 - 5
Mil: _____
Nor: 4600 - 11,750 - Cont

BOOSTER

No. & Model (1) T-50 Modified
Mfr Picatinny Arsenal and
 Goodyear
Thrust (lb) 57,000
Duration (sec) 2.4

FEATURES

Movable Horizontal Stab-
ilizer
Spoiler Type Ailerons
Honeycomb Wing Construction

Max Fuel Cap: 400 gal

GUIDANCE

SYSTEM

- (a) INITIAL:
Programmed air speed control
- (b) MID-COURSE:
MARC (AN/APW-11 used with AN/MSQ-1)
- (c) TERMINAL:
Zero lift(ballistic dive)

CONTROL

Electro-hydraulic auto-pilot

CG/Matador B-61A/char

Deleted; 4/11/51; Add Nr 6;
13 Jun 55

See 5M 61A
9 Dec 55

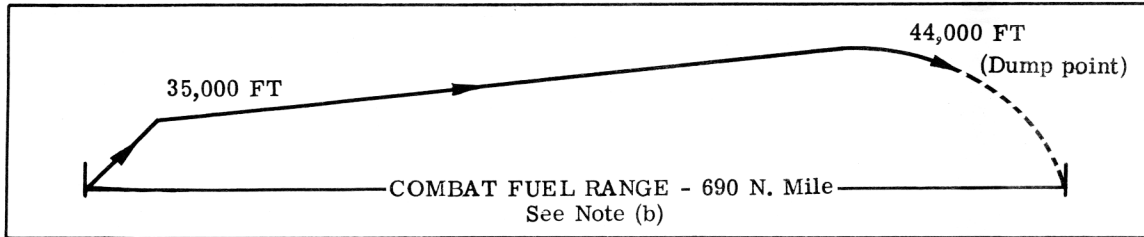
Classification cancelled
or changed to ~~Unclassified~~

AUTH: AFSC AF6C Sec 1000000000 1 Jan 64
By G. R. Lonneman 19 Jun 64 DOD Dir 5200.10
Signature and Grade 13 Dec 1966

3rd Ed addn # 9

5371c 12000

Characteristics Summary Basic Mission B-61A



P E R F O R M A N C E		
ENDURANCE	RANGE	S P E E D
1.33 hours	690 naut mi. with 3050 lb payload at 518 knots avg. in 1.33 hours	MAX 518 knots at 44,000 ft alt, normal power
LAUNCHING	CLIMB	ALTITUDE
Ground-launched from a zero length launcher with additional boost provided by a T-50 rocket. PREPARATION & LAUNCH TIME Approximately 1 1/2 hours	NOT AVAILABLE fpm sea level, launching wt., max power NOT AVAILABLE fpm ft alt, begin cruise wt., max power	Begin Cruise 35,000 ft. End Cruise 44,000 ft.
L O A D	W E I G H T S	T A R G E T A C C U R A C Y
Warhead: 3050 lb Fuel: 400 gal protected 0 % droppable 0 % external 0 %	Empty 5410 lb Begin Cruise 11,030 lb End Cruise 8460 lb Launch 12,660 lb	Design criteria requires 95% of the pilotless aircraft launched to arrive in the target area where 50% will strike within 500 ft of target. Present accuracy is approximately 1800 ft.

N O T E S

1. PERFORMANCE BASIS:
 (a) Estimated data (Not substantiated by WADC)
 (b) Line-of-sight limitations to microwave propagation restricts the MATADOR with present guidance to 220 nautical miles.

2. REVISION BASIS: To reflect latest characteristics data.