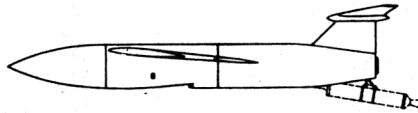
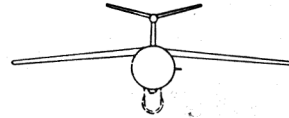
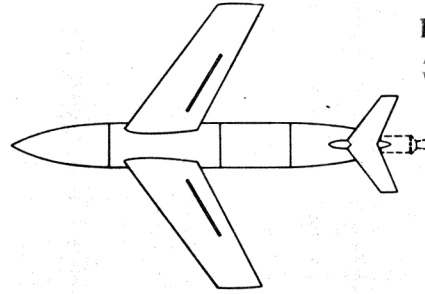


# Characteristics Summary

BOMBER . . . . . B-61A

PROPERTY OF  
AIR FORCE MUSEUM  
Wright-Patterson Air Force Base, O.



"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				

**S T A T U S**

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

**F E A T U R E S**

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

*Related: 4th Ed, Add Nr 6;  
13 Jun 55*

*CG/Matador  
B-61A/char*

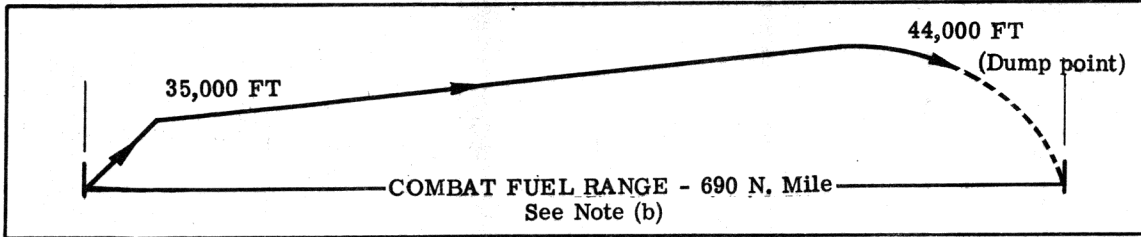
*Classification cancelled  
or changed to: Unclassified*

*AU: AFSS - AFBC Sec. trans. Guide Jan 64  
By A.R. Johnson 1 Apr 64    DOD Dir 5200.10  
Signature and Grade    13 Dec 1966*

*3rd Ed addn #9*

537c 12000

*Characteristics Summary Basic Mission* ..... B-61A



<b>PERFORMANCE</b>		
<b>ENDURANCE</b>	<b>RANGE</b>	<b>S P E E D</b>
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
<b>LAUNCHING</b>	<b>CLIMB</b>	<b>ALTITUDE</b>
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.
<b>L O A D</b>	<b>W E I G H T S</b>	<b>TARGET ACCURACY</b>
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.

<b>N O T E S</b>
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.