

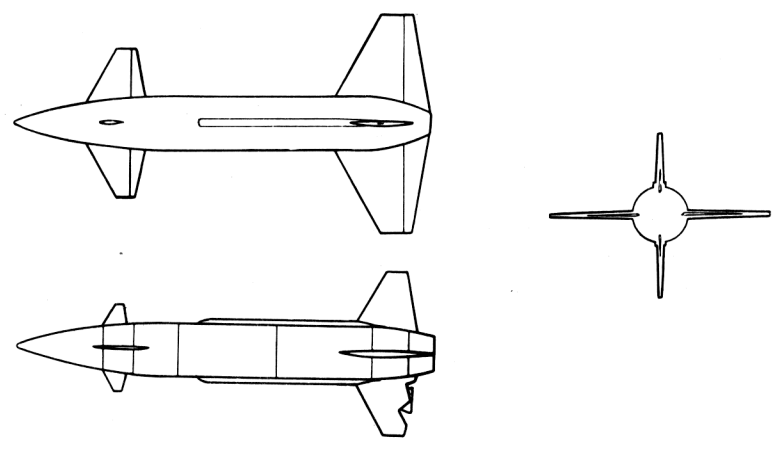
~~Black Book~~  
~~Confidential~~  
SECRET

CA  
RASCAL  
(X) GAM-63

CLASSIFICATION CANCELLED  
(OR CHANGED TO *Unclassified*)  
BY AUTHORITY OF *DoD Dir Spro 10*  
(INDIVIDUAL OR WRITTEN AUTHORITY)  
*a.R. Lambert* 8 Oct 68  
NAME IN GRADE OF INDIVIDUAL MAKING CHANGE: *BELCH*

# Characteristics Summary

## GUIDED AIRCRAFT MISSILE ... XGAM - 63



" RASCAL "

BELL

Wing Area ..... 114.65 sq ft      Length ..... 32.0 ft  
Span (Fin) ..... 16.7 ft      Height ..... 12.5 ft

### AVAILABILITY

### PROCUREMENT

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

### STATUS

- Project Approved: 29 Apr 46
- Launching 1st Powered Article: Sep 52
- Launching 1st Guided Article: Oct 53
- Thirty-eight powered GAM-63 test vehicles launched to date.
- Completion of suitability tests is scheduled for Feb 58

Navy Equivalent: None

Mfr's Model: 56F

### POWER PLANT

SUSTAINER  
(1) YLR 67-BA-9  
Bell Aircraft Co.

THRUST RATINGS

S.L.S.	LB	Duration (sec)
Max:	3480(ea)	145
Max:	*4000(ea)	135

NOTE: Three thrust chambers operate during 2 minute boost period.

### FEATURES

Canard Cruciform Arrangement  
Launched from DB-47  
  
Wings are of Multiple-rib  
Tapered Skin Construction

Max Fuel Cap: . . . . 293 gal  
Max Oxidizer: . . . . 600 gal

### GUIDANCE

- SYSTEMS
- (a) INITIAL: Standard navigation procedures using modified K series equipment up to launching point.
  - (b) MID-COURSE: Single-axis inertial
  - (c) TERMINAL: Radar Relay-Command Link

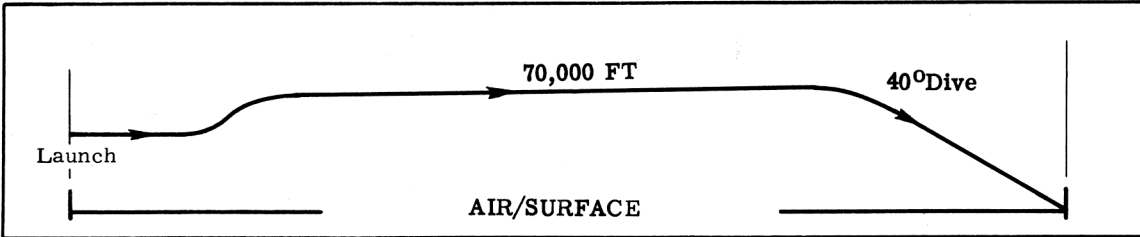
### CONTROL

Servo Pilot

**RESTRICTED DATA**  
**ATOMIC ENERGY ACT 1954**

Classification cancelled *Confidential*  
or changed to *Unclassified*  
DoD Dir Spro 10  
AUTH: *A.F. H. de Groot*  
By *a.R. Lambert* 6 Sept 67  
Signature and Grade *23 Feb 67*

**Characteristics Summary Basic Mission . . . XGAM-63**



<b>P E R F O R M A N C E</b>		
<b>ENDURANCE</b>	<b>RANGE</b>	<b>S P E E D</b>
289 Seconds	90 naut mi. with 3000 lb payload at 1123 knots avg. in 289 seconds	Max 3.3 Mach at 70,000 ft alt,
<b>LAUNCHING</b>	<b>CLIMB</b>	<b>ALTITUDE</b>
Dropped externally from DB-47	NOT APPLICABLE	Launch 40,000 ft.  Cruise 70,000 ft.
<b>L O A D</b>	<b>W E I G H T S</b>	<b>TARGET ACCURACY</b>
Nuclear Warhead: 3000 - 5000 lb  Fuel: 293 gal Oxidizer: 600 gal protected 0 % droppable 0 % external 0 %	Empty 5900 lb  Launch 18,200 lb	(a) Surface target: *CEP = 1500 ft (b) Air burst: *CEP = 1500 ft Vertical standard deviation = 500 ft  *Circular error probable

**RESTRICTED DATA**  
**ATOMIC ENERGY ACT 1954**

<b>N O T E S</b>
<p>1. PERFORMANCE BASIS: (a) Estimated data</p> <p>2. Revision Basis: To revise characteristics.</p>