

Unclassified

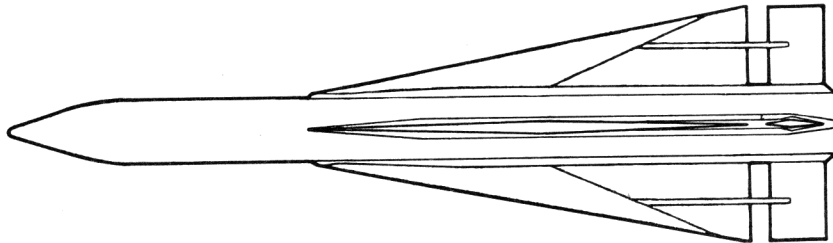
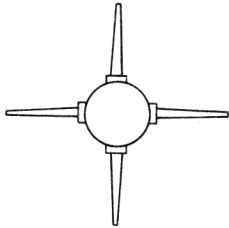
Black Book  
~~SECRET~~

C3/XGAR-1A/char

EXPERIMENTAL

# Characteristics Summary

GUIDED AIRCRAFT ROCKET . . . . . XGAR-1A



"FALCON"

HUGHES

Wing Area . . . . . Not Applicable      Length . . . . . 86.5 in.  
Span . . . . . 24.0 in.      Height . . . . . 24.0 in.

## AVAILABILITY

## PROCUREMENT

Number available

Number to be delivered in fiscal years

ACTIVE	RESERVE	TOTAL				

## STATUS

1. Extension of the GAR-1 development with redesigned nose, improved performance characteristics and improved electronic equipment.
2. Development to follow GAR-1 development by approximately three years.

Navy Equivalent: None

Mfr's Model: E

## POWER PLANT

(1) Solid Rocket Motor

Hughes Aircraft Co.

### THRUST RATINGS

S.L.S.	LB	Duration (sec)
Nominal: ①	4700	- 0.8
②	500 to 0	- 4.0

- ① Boost Phase
- ② Sustaining Phase

## FEATURES

Supersonic Guided Aircraft Rocket for destruction of subsonic and supersonic bombers.

Blast Type Warhead

Max Fuel Cap: . . . . . 24.7 lb

## GUIDANCE

- (a) INITIAL  
None during boost phase
- (b) MID-COURSE AND TERMINAL  
Semi-Active X-Band Pulse Radar, Proportional Navigation

### CONTROL

Hydraulic: Initiated by the Error Signal from Target Seeker

*Deleted as Guided Rocket and listed as Guided Missile  
4th Ed; Add Nrs 5  
13 May 55*

*Revised to reflect latest characteristics and performance data.  
2 May 55*

*11 Apr 67 a. R. Lombard*

DOWNGRADED AT 3 YEAR INTERVAL  
DECLASSIFIED AFTER 12 YEARS  
DOD DIR 5200.10

15 NOV 54

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XGAR-1A  
(AIR-AIR)

*4th Ed addn #1*

*Characteristics Summary Basic Mission . . . . . XGAR-IA*

NOT APPLICABLE

<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>
NOT APPLICABLE	5000 ft to 25,000 ft	Launching speed of aircraft plus 1200 ft/sec
<b>LAUNCHING</b>	<b>CLIMB</b>	<b>ALTITUDE</b>
Short Length Rail: Rocket launched in 20 seconds from time target is sighted.	NOT APPLICABLE	Effective up to 60,000 ft
<b>L O A D</b>	<b>W E I G H T S</b>	<b>TARGET ACCURACY</b>
Warhead: . . . . . 12 lb Fuel: (Thiokol Base) .24.7 lb	Burnout . . . . . 110.3 lb  Launch . . . . . 135.0 lb	$P_k$ - .50 to .95 for salvo of 6 rockets against sub- sonic and supersonic bombers.

**N O T E S**

1. Performance Basis:  
(a) Estimated data (Not substantiated by WADC)
2. Revision Basis: To reflect latest characteristics and performance data.