

Initial Issue

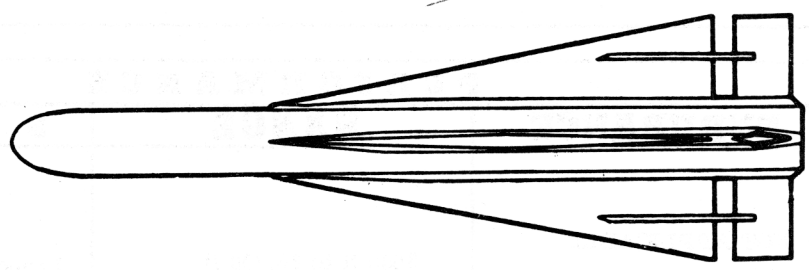
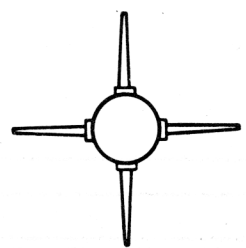
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Black Book
~~SECRET~~

C3/XGAR-1C/char

Characteristics Summary

GUIDED AIRCRAFT ROCKET XGAR-1C



"FALCON"

HUGHES

Wing AreaNot Applicable Length 83.4 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. Similar to the GAR-1A except that a passive infra-red seeker system is installed in lieu of the semi-active radar system.
2. Design Initiated: 27 Jan 54
3. Test firing of GAR-1C from F-102A type aircraft is scheduled for: Late 1955

Navy Equivalent: None Mfr's Model: G

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 or Fighters

Blast Type Warhead

Infra-Red Target Seeker

Max Fuel Cap:24.7 lb

GUIDANCE

- (a) INITIAL
None during boost phase
- (b) MID-COURSE AND TERMINAL
Passive Infra-Red Seeker

CONTROL

Hydraulic: Initiated by the Error Signal from Target Seeker

*Deleted 7/14/56
Add Nrs 12; 7 Mar 56*

CONFIDENTIAL
DECLASSIFIED AT 3 YEAR INTERVAL
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10
BY: *G.R. Somerville*
11 Jan 68
11 Apr 67

4th Ed addn #6

Characteristics Summary Basic Mission XGAR-IC

NOT APPLICABLE

P E R F O R M A N C E

ENDURANCE	RANGE	S P E E D
NOT APPLICABLE	3500 ft to 35,000 ft	Launching speed of aircraft plus 1200 ft/sec

LAUNCHING	CLIMB	ALTITUDE
Short Length Rail: Launched from missile bays of F-102B. Approximately 20 seconds required from time target is sighted to time rocket is launched	NOT APPLICABLE	Effective up to 60,000 ft plus.

L O A D	W E I G H T S	TARGET ACCURACY
Warhead: 12 lb Fuel:(Thiokol) 24.7 lb	Burnout 110.3 lb Launch 135.0 lb	P_k - 0.95 for salvo of 3 rockets against subsonic and supersonic bombers.

N O T E S

1. PERFORMANCE BASIS :
 (a) Estimated data (Not substantiated by WADC)
2. REVISION BASIS: Initial Issue