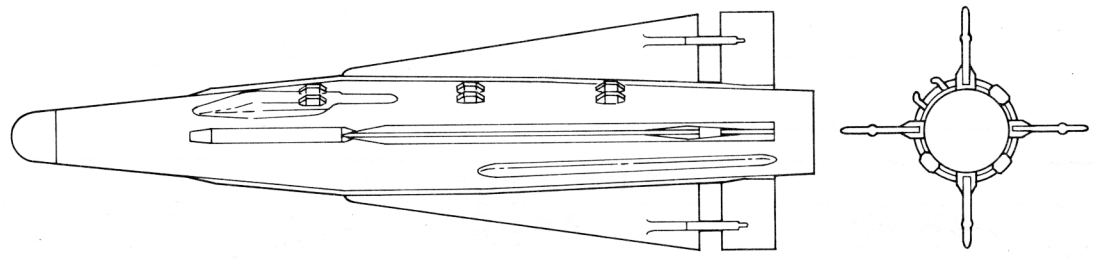


~~CONFIDENTIAL~~
unclassified

C3/Falcon/char
AIM-26B

Characteristics Summary

AIR INTERCEPT MISSILE AIM-26B (GAR-11A)



FALCON

HUGHES

Wing Area Not Applicable Length 85 in.
Span 24.5 in. Body Diameter 11.4 in.

AVAILABILITY			PROCUREMENT			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL	FY 63	FY 64	FY 65	
0	792	792	427			

J. M. White 3/16/77

STATUS

1. Continuous rod-high explosive warhead intercept missile for the F-102A interceptor.
2. Same as the AIM-26A except for the warhead.
3. Modification initiated: Feb 62
4. First flight: Oct 62
5. In service: Sep 62
6. In production

Navy Equivalent: None

Mfr's Model: 52a

POWER PLANT

(1) Single-level Thrust Solid Rocket M60

Thiokol Chemical Corp

THRUST RATINGS
S. L. at 70°F
(Nominal)

Thrust (Avg) 5620 lb
Burn Time 2.09 sec
Total Impulse 12,880 lb-sec
Specific Impulse 215 lb-sec/lb

FEATURES

Interchangeable with other F-102A armament after mod.
Semi-active radar seeker
Spherical-nose ceramic radome
Cruciform surface arrangement
"Roll-rate-limiting" aileron control
CR-HE warhead
Radar Active FMCW fuze
Batteries and compressed gas-hydraulic supply
Miniaturized precision components and circuitry
Snap-up capability
Humidity sealing
Improved ECM capability

GUIDANCE

INITIAL (BOOST PHASE)-
None; Tracking only
MID-COURSE AND
TERMINAL -
Homing, semi-active X-band Pulse Radar Target Seeker, Proportional Navigation

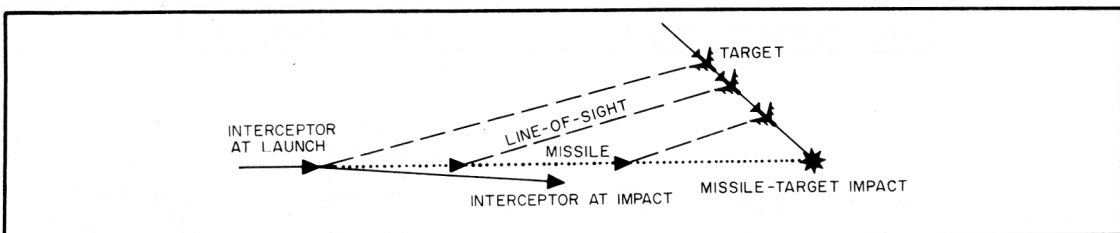
CONTROL

Hydraulically actuated rear control surfaces provide necessary steering and damping
Steering signals generated by target seeker tracking motion

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

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Characteristics Summary Basic Mission AIM-26B (GAR-11A)



PERFORMANCE		
TARGETS	RANGE	S P E E D
Altitude Feet Mach Nr. S. L. 0.9 60,000 1.0 Subsonic propeller-driven or jet bombers	Usable missile launch range 3000 ft to 60,000 ft	Maximum: Launch aircraft speed plus 1700 fps
LAUNCHING	FLIGHT TIME	ALTITUDE
Rail launch from extension gear in interceptor fuselage F-102A may carry two AIM-26B's for two pass capability Minimum launching time for AI radar detection . . 15 sec	Usable missile flight time: 4-30 seconds	Approximately 1000 ft above terrain to 60,000 ft
L O A D	W E I G H T S	TARGET ACCURACY
Continuous Rod - High Explosive warhead - 60 ft Maximum Expansion Diameter Warhead 48.5 lb Rocket motor (loaded) 84.2 lb Useful propellant . . 60.0 lb	Prelaunch 258.62 lb Burnout 197.46 lb	Probability of Carrier Kill - Single shot P_k approx. 0.80 (B-47 type target) P_k essentially unaffected by target maneuver

N O T E S

- PERFORMANCE BASIS:
 - Performance based on NACA standard atmosphere
 - Interceptor launch conditions: max launch velocity, $M= 1.7$
 - Probability of kill based on 0.90 missile reliability
- Revision Basis: Initial issue