



# FMU-139 D/B

## Bomb Fuse System

### OVERVIEW

The FMU-139D/B is “Tomorrow’s Fuze, Today”. This advanced, all electronic fuze design will replace legacy fuzes (FMU-139C/B, FMU-152A/B, and FMU-143) as remaining inventories are expended. The optimized design eliminates all moving parts common with older fuze systems and improves safety, power management, and survivability across the target spectrum. The FMU-139D/B provides improved operational capability by utilizing in cockpit programmability or manual arm/delay settings (face plate).

The FMU-139D/B is the current Program of Record for the U.S. Navy and U.S. Air Force for MK-80 series and BLU-100 series bombs.

### BENEFITS

- Cockpit programmability, allowing “real-time” operational flexibility
  - Reduces sorties due to ability to flex to new targets while airborne
- Next Generation All-Electronic Safe/Arm Fuze System (ESAF)
  - Relies on electronics to safe and arm the device
  - Increased safety, performance and operational flexibility
  - Advanced technology / no internal moving parts
  - In-line explosive train
  - Advanced power management
- Impact survivable for select penetrating bomb applications
- Low speed release functionality
- Passed safety requirements and environmental tests (MIL-STD-1316; MIL-STD-331; MIL-STD-810)

### APPLICATIONS

Northrop Grumman has designed the FMU-139D/B to be compatible with:

- U.S. Air Force, Navy, and Marine Corps aircraft
- F/A-18A/C/D/E/F, AV-8B, A-10C, F-15E, F-16C/D, F-35A/B/C, and MQ-9
- Joint Direct Attack Munition (GBU-31/32/38/54), Paveway
- Laser Guided Bombs – GBU-10/12/16/24/B/B/24EB/B
- MK-80 and BLU-100 Series Warheads Proximity Height of Burst, High/Low Drag systems



**TECHNICAL DATA**

Weight: 3.36 lb (1.5 kg)  
 Length: 7.81 in (198.4 mm) max  
 Diameter: 2.89 in (73.4 mm) max  
 Power Supply: FZU-48A/B air driven turbine  
 Mission Duration: Minimum of 5 minutes  
 Storage Life: 20 Years

**FMU-139D/B**

NSN 1325-01-66-1559

SYSTEM PART NUMBER (P/N) 28090644

**PACKAGE CONTENTS P/N (individual)**

6 X Fuzes 28090717  
 6 X Locking Rings 28092368  
 6 X FZU-48A/B Initiators 28091066  
 6 X Power Cables 28092829  
 Desiccant  
 Humidity Card

**FMU-139 (D-5) CUT-AWAY TRAINER FUZE**

SYSTEM PART NUMBER (P/N) 28096287

**PACKAGE CONTENTS P/N (individual)**

Cut-away Trainer 28096286  
 Fuze

**PRODUCT PACKAGING & LOGISTICS**

Fuze and FZU Pack-Out:

- FMU-139D/B fuze; closure ring; FZU-48A/B bomb fuze initiator; power cable; power cord
- Packaged together in sets of six (6) in an M548 Container (19" L x 9" W x 15" H and 51 lbs)

**FMU-139(D-1)D/B INERT TEST FUZE**

SYSTEM PART NUMBER (P/N) 28096281

**PACKAGE CONTENTS P/N (individual)**

FMU-139(D-1) Inert Test Fuze 28096280  
 Locking Ring 28092368  
 FZU-48A/B Test Initiator 28091066  
 Power Cable 28092829

**FMU-139(D-2)D/B INERT TRAINER FUZE**

SYSTEM PART NUMBER (P/N) 28096283

**PACKAGE CONTENTS P/N (individual)**

FMU-139(D-1) Trainer Fuze 28096282  
 Locking Ring 28092368  
 FZU-48 (D-2)A/B Trainer Initiator 28096975  
 Power Cable 28092829

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