

Fuzing & Ordnance Systems

FMU-143 B/B BOMB FUZE

ELECTRO-MECHANICAL IMPACT DELAY FUZING SYSTEM

L-3 Fuzing & Ordnance Systems possesses an outstanding capability in the design, development, and manufacture of precision mechanical and electromechanical Safety & Arming (S&A) mechanisms and timing devices. This capability is a direct result of our experience with fuzes and safety & arming devices for missiles, projectiles, and bombs employed by the U.S. Armed Forces and its Allies.



FMU-143 B/B Bomb Fuze is an electro-mechanical impact delay fuzing system developed for use by the Air Force in the BLU-109 and as BLU-113 penetration guided or unguided high-explosive bombs.

The fuzing system meets all U.S. & NATO Navy and Air Force requirements, including the safety criteria of MIL-STD-1316. The FMU-143 B/B fuze is compatible with most U.S. Air Force and NATO Aircraft. All arming functions and fuzing modes are contained in a single fuze.

L-3 Fuzing & Ordnance Systems is under contract to produce an initial order in excess of 8,000 FMU-143 B/B Fuze Systems, including the FZU-32 B/B wind turbine generator for the U.S. Air Force. L-3 Fuzing & Ordnance Systems also received an additional effort to improve the rotor assembly.

The fuzing system consists of a cylindrical fuze and an additional charging well generator (FZU-32 B/B), cable assembly, and lanyards are provided. Key features of the FMU-143 B/B design include ease of installation and preparation for flight and the ability to manually set the arming times prior to take-off.

The FMU-143 B/B has passed the appropriate environmental tests of MIL-STD-331 and MIL-STD-810.



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FMU-143 B/B CHARACTERISTICS

Safe separation times	5.5 or 12 seconds, ground settable
Detonation delay times (Pyrotechnic)	60ms
Arming required air speed	More than 270 (KCAS)
Power Supply	FZU-32 B/B air stream generator
Weight	(1.63kg) – (3.6lb)
Length (Includes arming wire housing and connector shipping plug)	(25.3cm) – (9.96 in. max)
Fits all standard bomb fuze wells	
Diameter	(7.3cm) – (2.87 in. max)
Shelf life	10 years
Service life (Out of shipping container)	180 days



L-3 FUZING & ORDNANCE SYSTEMS

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L-3. Headquartered in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.

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