

PYROTECHNIC DUAL-CARRIAGE: BRU-55

Pyrotechnic actuated dual carriage system for fighter platforms

The L3Harris BRU-55 is a pyrotechnic dual-carriage bomb release units (BRU), qualified for flight on the F/A-18 Hornet. The BRU-55 is compatible with 250-pound Small Diameter Bomb (SDB), and 500-pound and 1000-pound Joint Direct Attack Munitions (JDAM). This dual carriage system offers the ability to carry multiple store types, increasing aircraft stores capacity and reducing the number of missions required.

The BRU-55 is comprised of two DAC-4010 pyrotechnic BRU. The DAC-4010 offers an In-Flight Operable Bomb Release Lock, and independent and automatic latching hooks for safe and rapid loading and unloading of the store.

The BRU-55 interfaces with the aircraft over a MIL-STD-1760 Class II interface, where the logical interface automatically adapts to either a legacy protocol or Universal Armament Interface Type II protocol, depending on the first message type transmitted by the aircraft. Once initialized, the BRU-55 will automatically adapt the store interface to either MIL-STD-1760 Class II interface or MMSI class II interface based on the store loadout. The BRU-55 and 1760 stores are set up as MIL-STD-1553 remote terminals to the aircraft. The MMSI stores function as remote terminals to the BRU-55, which serves as the bus controller for communication with the stores over EBR-1553.

The BRU-55 is qualified to MIL-STD-7743, MIL-STD-810 and MIL-STD-461/462.

SPECIFICATIONS

Weight	230 lbs
Dimensions	70 L x 8 H x 29 W in
Ejection Method	Pyrotechnic
Piston Stroke	6.4 in
Store Class (MIL-STD-8591)	250, 500, 1,000 lbs
Store Diameter Range	10 to 16 in
End-of-Stroke Velocity for 500 lbs Store	>18.5 ft/sec
End-of-Stroke Velocity for 1000 lbs Store	>13.5 ft/sec
Pitch Control	Interchangeable orifice in each ejector piston



BRU-55



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BENEFITS

- > Carries multiple store types providing greater mission flexibility
- > Pilot and aircraft exposure minimized by a reduction in missions due to increased store capacity
- > Compatible with MIL-STD-1760 and MMSI stores
- > Safety Interlock: In-Flight Operable Bomb Release Lock (IFOBRL)
- > Safe and rapid store loading using independent and automatic latching hooks
- > Reliable pyrotechnic ejection

FEATURES

- > MIL-STD-1760 Class II interface to aircraft and MIL-STD-1760 stores
- > SAE AS5725B Class II interface to MMSI stores
- > Bus controller to MMSI stores using Extended Bit Rate (EBR) 1553
- > UAI type II logical interface
- > Two mounting lugs with 30-inch spacing
- > Electronic bomb fusing
- > Nose and tail arming units

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