
DILLON AERO

Gun Control Unit & Spade Grips



DILLON AERO, INC.



LAND



AIR



SEA

Gun Control Unit and Spade Grips



Earlier generation gun control units or fire control units came in a variety of shapes and sizes, though they typically shared certain characteristics. These systems tended to be large, heavy, and overly complex. Some GCUs, consisting of multiple 'black boxes', could weigh more than 20 pounds. Designed with sensitive electronics, they could easily burn-up, leaving a gun unable to fire.

Complexity was another serious shortcoming. In the event of a failure, it was unlikely that the unit could be returned to service with a trip to depot level maintenance. Typically, unit replacement cost was always high, and the sensitive nature of these early systems meant a large number of spares were necessary.

Dillon Aero's Gun Control Unit is a simple, yet highly robust system. The GCU controls all of the weapon's functions. When either of the twin triggers are depressed the GCU performs a number of functions:

1. Power is delivered to the Gun Drive Motor.
2. Power is delivered to the Clutch, which in turn engages the Feeder/Delinker system.
3. Power is delivered to the ammunition Booster Motor.
4. The 'Time Delay Circuit' is energized.

Gun Control Unit

Standard, P/N: DMG0100A

NSN: 1005-01-494-8770

W/ Pilot Authorize, P/N: DMG0175

Spade Grips

P/N: DMG0200A

NSN: 1090-01-495-3304

Universal, P/N: DMG250

Pictured, Right

1 Piece Cast, P/N: DMG0265

Pictured, Above

NSNs pending for those not listed

The Time Delay Circuit

When the GCU trigger is released, power is removed from the weapon. The DAC3000 Clutch disengages and the flow of ammunition to the gun is interrupted. After the Clutch disengages the Time Delay Circuit continues to supply power to the gun motor long enough to ensure that all remaining live rounds have been fired. There are no live rounds left in the gun.

Dillon Spade Grips are specifically designed for the Dillon GCU. The Spade Grips bolt directly to the gun housing providing a stable gun interface.

Dillon's Cable Harness is simple, strong, and damage resistant. Three connectors carry power from the 24 Volt power source and distribute it to the Booster Assembly and the Gun Control Unit.

- Currently in Service with US and foreign military.
- Dual Firing Triggers provide redundancy.
- Guarded Master Power Switch.
- Night Vision Compatible.
- Optional Integrated 'Intercom System' switch available.

Dillon's GCU is an integral part of the gun, housed in the Spade Grips.



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