
DILLON AERO

Gun Bolt Set



DILLON AERO, INC.



LAND



AIR



SEA

DA1000 Bolt Assembly



P/N: DA1000

NSN: 1005-01-490-9688

Included in the SLE kit are six Dillon DA1000 Gun Bolts. Together with six Dillon improved bolt tracks, the DA1000s form a complete Gun Bolt set.

It is necessary to replace the General Electric bolts for a couple of reasons. Firing pins found in GE bolts have blunt tips. Blunt tips can puncture the primer of a cartridge during the firing sequence. When this happens a portion of the hot gas is vented passed the firing pin and through the bolt. This has two effects. The first is to cause the firing pin to compress the firing pin spring rearward against the firing pin retention pin. If this happens enough times the firing pin spring will lose temper, which leads to light firing pin strikes on primers. These 'light strikes' may contain insufficient energy to fire the cartridge.

The second effect of gas venting is to 'etch' the tip of the firing pin. The more the firing pin tip is damaged the more likely it is to puncture larger holes in the primer. At a certain point enough gas is vented into the bolt body that the bolt head retention pin may actually be sheared into three pieces, leading to catastrophic bolt failure.

To solve these and other problems, Dillon patented an entirely redesigned gun bolt for use in the Dillon M134D. This bolt, the DA1000, is completely compatible with the General Electric GAU-2B/M134.

Dillon Aero's Bolts are amazingly strong and reliable. The firing pin tip is rounded, not blunt, to avoid primer puncture. In firing tests totaling well over one million rounds, Dillon Bolts did not puncture a single primer. Because of this, Dillon springs last fifteen times as long as GE springs.

Other improvements include dual, opposed guidance tangs that drive the bolt head into and out of the locked position. This is compared to the single tang GE bolt head which was susceptible to cracking.

Also, bolt searing is simpler and more reliable. GE bolts have a boss on the rear end of the firing pin that engages a track in the gun rotor. With Dillon Bolts the sear is contained within the Bolt Head and is triggered by Bolt compression. This feature makes rotor design less complex and less expensive.

Bolts are sold as complete units and have no need for individual maintenance beyond normal cleaning and inspection. In fact, a single set of Dillon Bolts has been fired to 375,000 rounds without replacing any parts, including springs.

- Currently in Service with US and foreign military.
- Service life of 200,000 rounds.
- Dillon bolts require no maintenance aside from normal lubrication and inspection.
- Dillon Firing Pins are internally seared so there is no interface between the firing pin and rotor.
- Dillon Bolts are designed to prevent "off-center" firing pin strikes.
- Dillon Firing Pins have spherical ends which eliminate punctured primers.
- Dillon springs are engineered to last beyond 200,000 rounds.



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