

Chapter 2

(This chapter supersedes that issued with A.L.16)

CANOPY JETTISON GUN (VENOM/VAMPIRE AIRCRAFT)

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Loading

WARNING ...

Before any work is commenced on the canopy jettison gun, the gun lock handle (fig. 1) must be pulled to the locked position and the safety pin inserted at the forward end of the connecting rod. In addition, the seat firing handle must be secured in the safe position with the safety pin and disc.

1. (1) Ensure that the replacement cartridge is undamaged and that it has sufficient life for a further period of service.
- (2) Ensure that the firing unit is correctly cocked and that the firing lever is secured with 20 S.W.G. non-corrodible steel wire.
- (3) Ensure that the firing pin does not protrude beyond the inner face of the barrel.
- (4) Screw in the cartridge unit complete with cap, then lock the cap to the barrel with 22 S.W.G. non-corrodible steel wire and seal with a lead seal, using the special pliers.
- (5) Fit the access panel, taking care that the rubber seal and safety bursting disc are not damaged.

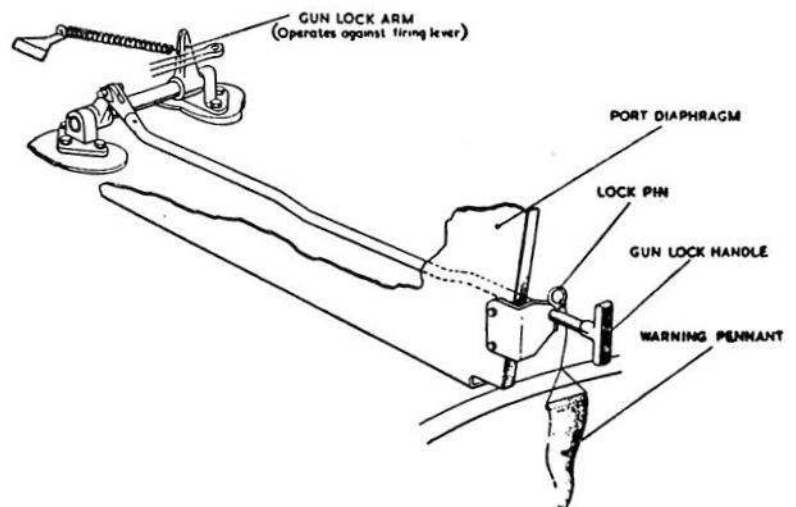


Fig. 1. Details of locking arrangements

Unloading

2. (1) Remove the gun access panel (fig. 2).
- (2) Withdraw the locking wire and seal from the cartridge head.
- (3) Unscrew the head and lift out the cartridge.

Lubrication

3. All moving parts of the jettison gun should be lubricated at the prescribed servicing periods with oil OM-13 (Stores Ref. 34D/100570).

Cable load test

4. Check the load required to operate the jettison handle as follows:—

- (1) Remove the cartridge.
- (2) Undo the safety strap on the jettison handle.
- (3) Test with a spring balance. The load required should be 35 lb. \pm 5 lb.
- (4) Refasten the safety strap and refit the cartridge.

Removing the gun

5. (1) Ensure that the locking pin is correctly fitted.
- (2) Remove the large rectangular access panel in the aft portion of the canopy.
- (3) Remove the cartridge unit firing head also the safety and exhaust pipes from the gun.

- (4) Disconnect and remove the canopy de-misting pipes behind No. 2 bulkhead.
- (5) Disconnect the cable from the gun trigger.
- (6) Withdraw the bolts from the trunnion mountings and remove the gun assembly.

Assembling the gun

6. Reverse the operations given in para. 5 for refitting the gun in the aircraft.

Test adapter

7. Details of a locally manufactured air pressure test adapter are given in fig. 3, and the appropriate test will be found in Vol. 5, Sect. 7, Chap. 2. To fit the adapter, screw it into the cartridge assembly housing, attach the air line and secure by means of a Jubilee clip.

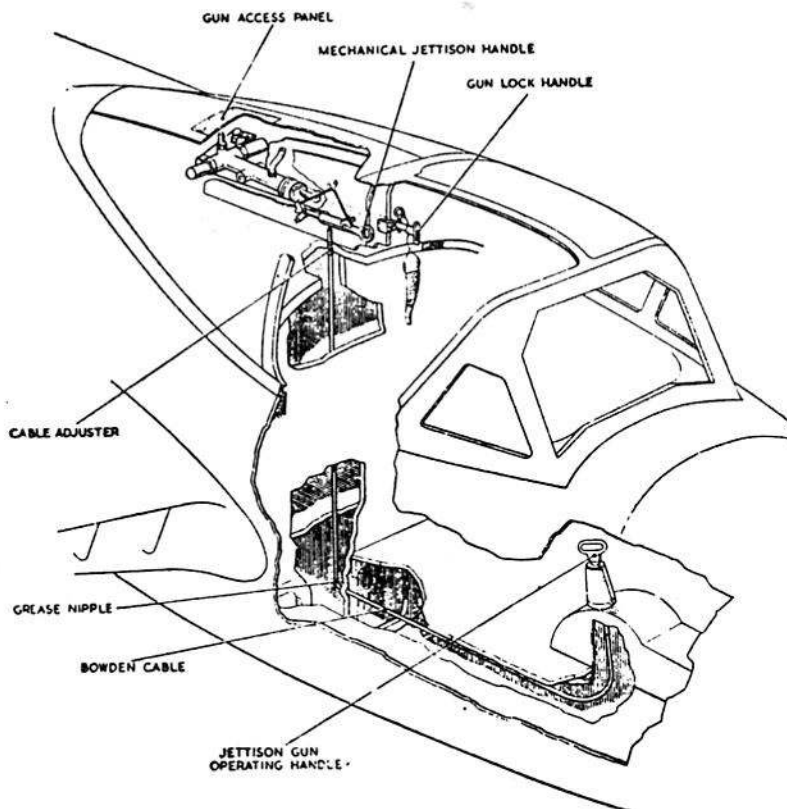
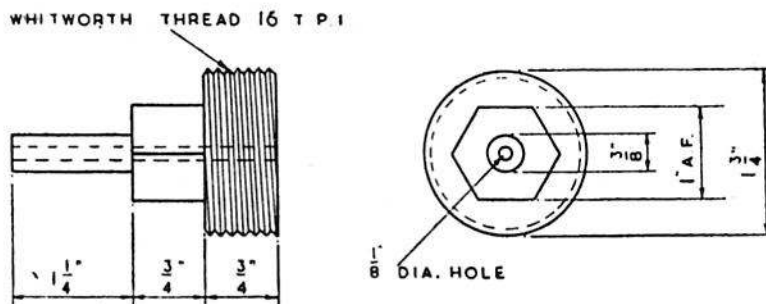


Fig. 2. Details of canopy jettison system



MATERIAL - MILD STEEL

Fig. 3. Test adapter (local manufacture)

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