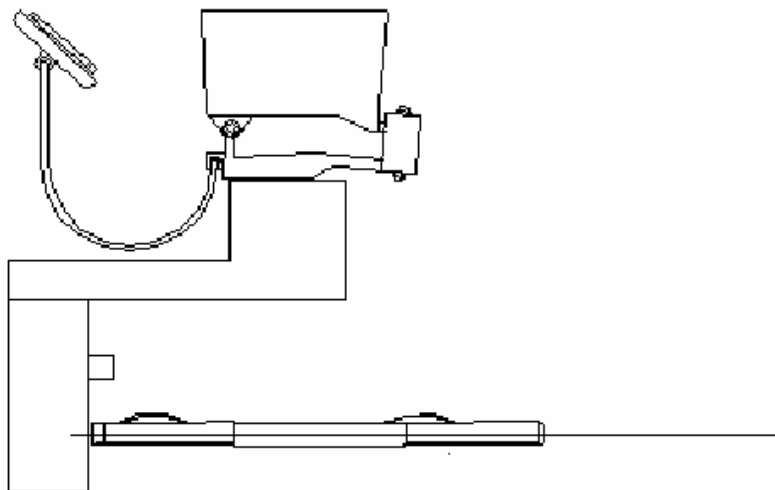


OPERATORS MANUAL

Instructions for Installing and Using Ring Sight
Dry Zeroing Devices Model No. DZD-M60D-01

NSN



Amendment No	Date	Signature

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SUMMARY

1. This manual contains information to install and use Ring Sight Dry Zeroing Devices Model No's DZD-M60D-01 on the M60D 7.62 machine gun.
2. The Ring Sight Dry Zeroing Devices are for use with the Ring Sight LC-40-100-NVG-GSO on the M60D 7.62 machine guns.
3. The DZD's consist of a standard LC-31-85 solid glass reflex collimator sight with a removable cap added to the front preventing the view of the target scene.
4. The optic is fitted with a special graticule with a ring and cross hair. These can be used to assist in the zeroing and alignment check (see Para's 9-14). See figure 1 for Graticule layout.



Fig 1 DZD Graticule Pattern 88

5. The sight is mounted on an alignment mechanism between the optic casing and the post interface. There are two self locking alignment screws on the sight which are turned with a spanner, one moves the sight horizontally, the other vertically. Its use is described in Para 16. The alignment screw heads on the DZD are painted red and are not to be moved.
6. The post interface fits onto a post which is special to the gun, so that the Ring Sight LC-40-100-NVG-GSO can see the graticule, it has a locating recess to locate over the foresight of the M60D machine gun
7. The post carries a spigot which is entered into the barrel to define the barrel axis at the muzzle.
8. The DZD-M60D -01 with assembly part numbers are illustrated at Fig 2

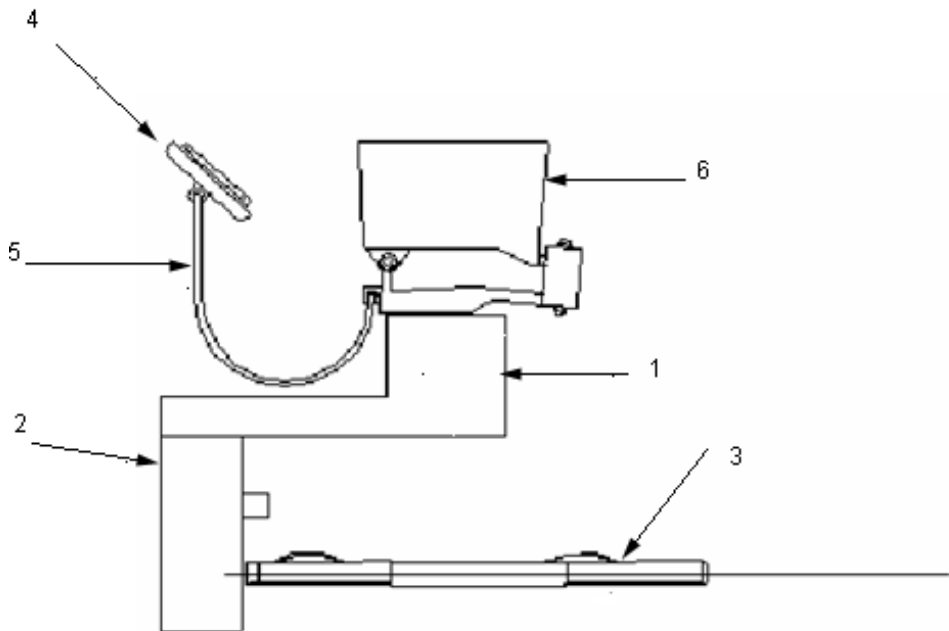


Fig 2 Parts list for DZD-M60D-01

DZD-M60D-01

1.	Locating Recess	N/A
2.	Post Assembly	#30400
3.	Spigot Assembly	#30401
4.	Cap Assembly	#A2084908
5.	Cord	#A2084921
6.	Sight	# 30202

ZEROING LC-40-100-NVG-GSO

9. Fit the Ring Sight to the gun ensuring that the dovetail is fully engaged and that the clamping screw is secure.
10. Fit the clamp assembly to the muzzle of the gun clamping it there with the captive screw so that the slots are at 9,12 and 3 o clock.
11. Fit the DZD vertically to the gun entering the spigot into the muzzle and engaging the pin on the post on the clamp assembly. If necessary fit the cap to the DZD aperture at the bottom.
13. Observe the DZD graticule Fig 1 through the ring sight with the eye central to the rear aperture and adjust the ring sight zeroing until the bore sight mark on the ring sight graticule (the small horizontal line above the central horizontal line) is in the circle, preferably near the centre. As the graticule is focussed at infinity, to get the alignment in the circle will be greater accuracy than the diameter of the ammunition.
14. For zeroing at night. Light the DZD graticule with a tritium light source, hand torch etc as available from the front. Switch on the night illumination on the ring sight and adjust to a suitable brightness. Proceed as before

CHECKING AND ADJUSTING DZD ALIGNMENT

Note:

Only to be done by an armourer.

15. When properly aligned, the sight line through the centre of the DZD graticule is parallel to the spigot axis. The DZD design permits this to be checked and adjusted if necessary.

16. To check DZD alignment, set up the gun so that a distant object can be seen (over 100 metres away) Remove the cap and insert the spigot of the DZD in the barrel without engaging the locating recess so that it is approximately 90° to the vertical. Move the gun until the centre of the graticule of the DZD is aimed at the distant object. Keeping the gun still, rotate the DZD 180°. Check that the centre of the graticule is still on the distant object. If it is not adjust the alignment screws and repeat the process until rotation does not alter alignment. When satisfied repaint the heads of the alignment screws red.

USER MAINTENANCE

17. The DZD optic only requires that the front and back glass surfaces are kept clean using water and a detergent.

18. The alignment screws should only be moved when a DZD alignment check is done. Alignment checks should be done weekly in action, before each range day in training and whenever a spigot, post or optic is changed.

19. The spigot should be kept greased.

CAUTION

Always remove the Dry Zeroing Device before loading the gun.

Never let the sun shine directly into the eyepiece of the Dry Zeroing Device, as the sunlight may burn out the reticle.

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