

Inspection and Maintenance of DMM Auto-Lock Carabiner Gate Mechanisms

Inspection and Assessment of Gate Mechanism

Start

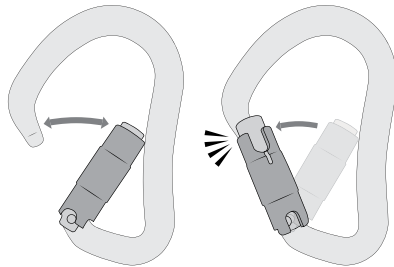
- If the carabiner requires disinfection or cleaning for effective visual inspection, clean* the carabiner prior to assessing the gate function.
- Inspect locking mechanism for abrasion, deformity, cuts, and sharp edges.
- Inspect hinge rivet for good condition.
- Inspect nose for contact marks, correct alignment of the nose with the slot.

Gate Action (function tests)

When performing the following tests, ensure that the gate of the carabiner is always released without bias i.e. the operator should **not** influence any action of the gate mechanism.

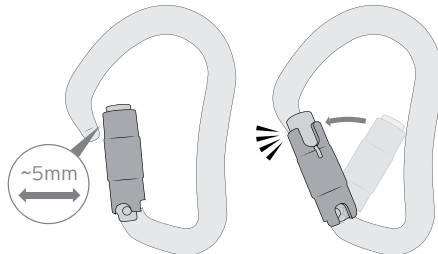
Test 1 (fully open):

Open the gate fully.
Release the gate *without bias*.
Check that the locking mechanism closes fully and reliably.



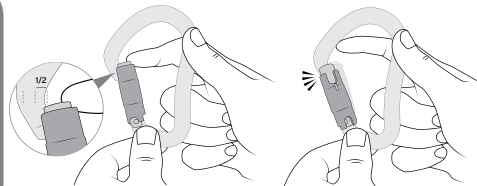
Test 2 (close to nose):

Open the gate to ~5mm clearance from the nose.
Release the gate *without bias*.
Check that the locking mechanism closes fully and reliably.



Test 3 (over the nose):

Open the gate to half-way across the nose.
Release the gate *without bias*.
Check that the locking mechanism closes fully and reliably.



Reject

Accept

Quarantine

Hold in isolation so that items cannot be inadvertently introduced into service.

Further information required.

Consult user instructions or contact DMM.

Lubrication

- Apply approved lubricant selectively to the mechanism and contact areas.
- Remove excess lubricant.

We recommend the use of [Duck Oil](#).

Do **not** use graphite powder.

*Clean

- Thoroughly clean in warm water of domestic quality (maximum temperature 25°C) with mild detergent at appropriate dilution (pH range 5.5 - 8.5).
- Manipulate the locking mechanism whilst lightly brushing the hinge area, the nose, nose slot, and as much of the rest of the mechanism as possible, removing any stubborn residues.
- Thoroughly rinse in clean warm water.
- Carefully flush the mechanism and contact points with a fine compressed air stream.
- Dry naturally in a warm ventilated and clean space away from direct heat.
- If disinfection is required please refer to user instructions