



In addition to routine checks for each use, PPE should regularly undergo a thorough inspection by a competent person.

Petzl recommends an inspection every 12 months and after any exceptional event in the life of the product.

- **PPE inspection should be done with the manufacturer's instructions available for reference.**

Download the instructions at [PETZL.COM](https://www.petzl.com)

This document describes the steps for a thorough PPE inspection.

Record the result of each step in the inspection record.



ZIG ZAG

D22

1. Known product history

Any PPE showing unexpected degradation should be quarantined, pending a thorough inspection.

The user should:

- Provide precise information on the usage conditions.
- Report any exceptional event regarding his PPE.

(Examples: fall or fall arrest, use or storage at extreme temperatures, modification outside manufacturer's facilities, etc.).

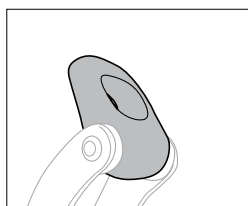
2. Preliminary observations

Verify the presence and legibility of the serial number and the CE mark.

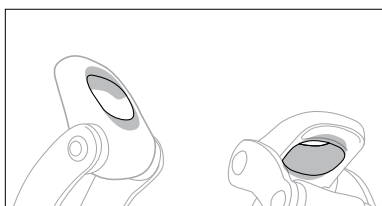
Verify that the product lifetime has not been exceeded.

Compare with a new device to verify there are no modifications or missing elements.

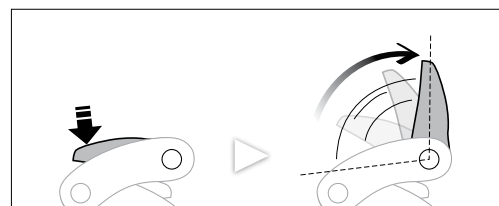
3. Checking the release lever



- Check the condition of the release lever (marks, deformation, cracks, etc.).



- Check for wear from the rope passing through the device.
- If there is significant wear, do the rope-grabbing test detailed in step 7.

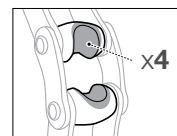
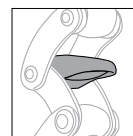
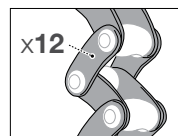
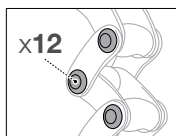


- Check the effectiveness of the return spring.

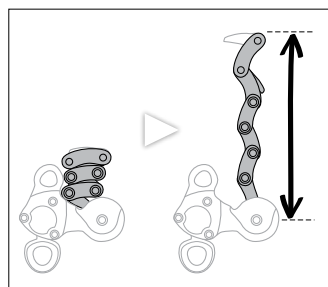
4. Inspecting the friction chain



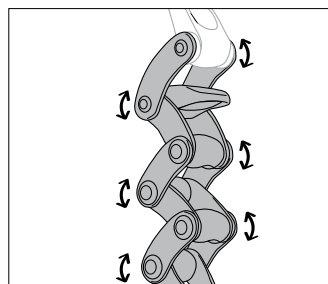
- Check the condition of the friction chain elements:
 - Rivets (cracks, deformation, corrosion, etc.)
 - Links (cracks, deformation, corrosion, fouling, etc.)
 - Release lever (wear, deformation, corrosion, fouling, etc.)
 - Bars (wear, deformation, corrosion, fouling, etc.)



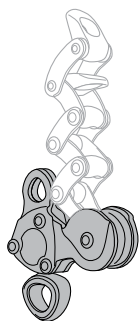
- Verify that the friction chain extends and compresses freely. If necessary, clean with soap and water and lubricate lightly (ex. graphite powder).



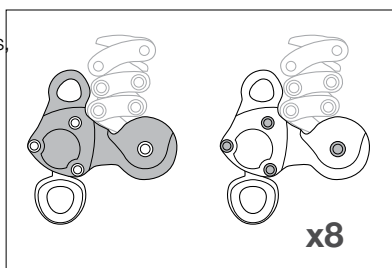
- Inspect each link individually to verify there are no rough spots in their rotation.



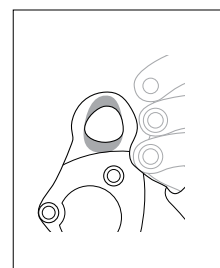
5. Inspecting the frame, sheave and swivel



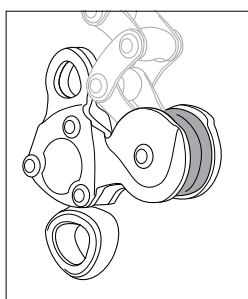
- Check the condition of the frame and rivets (marks, deformation, cracks, corrosion, absence of play, etc.).



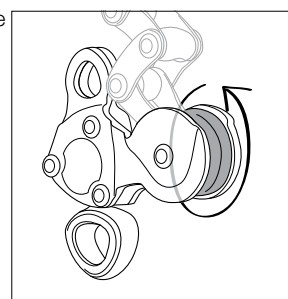
- Check the edges of the attachment hole for wear caused by connectors.



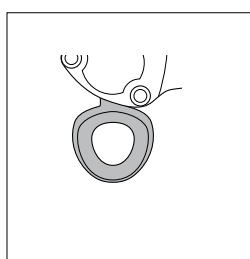
- Check the condition of the sheave (marks, deformation, corrosion, absence of foreign bodies, etc.).



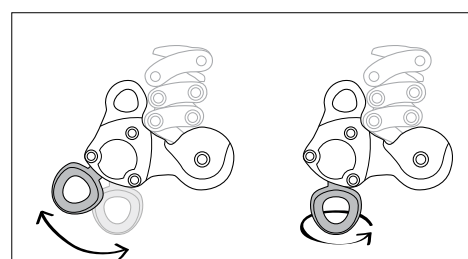
- Verify that the sheave turns freely.



- Check the condition of the swivel (cracks, deformation, etc.).

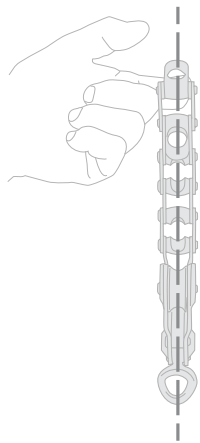


- Verify that the swivel turns freely and that there is no play between the swivel and the frame (if necessary lubricate with graphite powder).



6. Inspecting the alignment of the elements

- Hold the ZIGZAG out in front of you, by the release lever, with the chain extended. Note the alignment of the elements and of the frame.

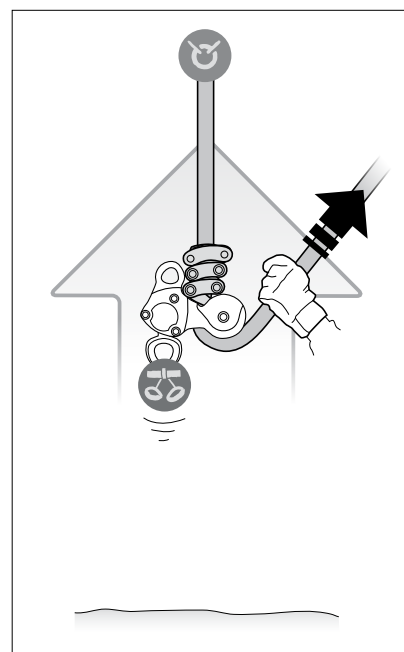
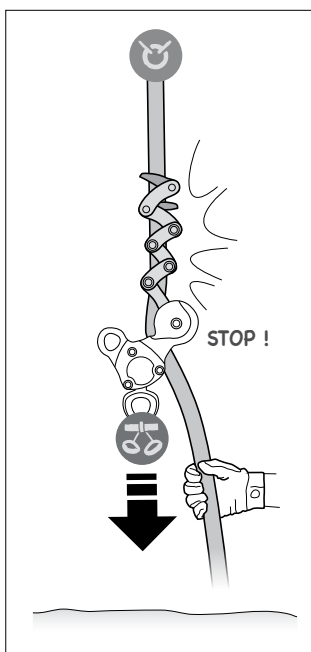


7. Function test: grabbing the rope

Use the different rope diameters recommended by the manufacturer (11.5 to 13 mm). Install the ZIGZAG in single mode on an anchor at very low height (see the chapter on Compatibility / Rope compatibility test in the product instructions).

- When hanging from the ZIGZAG in simple mode, there should be no slippage.

- Verify that the ZIGZAG slides upward when the rope below the device is pulled.



8. Function test: release under load

Install the ZIGZAG in normal work configuration (double mode), and hang from it at a very low height.

- Verify that pressure on the release lever allows smooth sliding and control of the rope.

