

- In addition to routine checks for each use, PPE should regularly undergo a detailed 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)



ZIGZAG

1. Known product history

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

The user should:

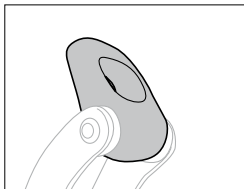
- Provide precise information on the usage conditions.
- Report any exceptional event regarding his PPE.

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

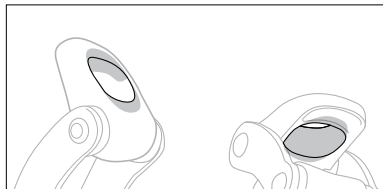
2. Preliminary observations

- 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.

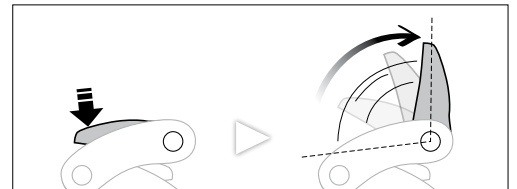
3. Checking the release lever



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



- Check for wear caused by rope running through the device. If there is significant wear, do the rope grabbing test detailed in step 8.

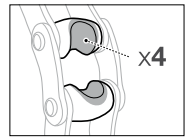
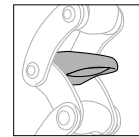
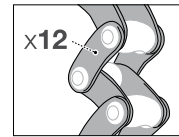
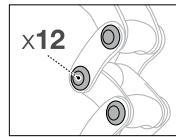


- Check the effectiveness of the return spring.

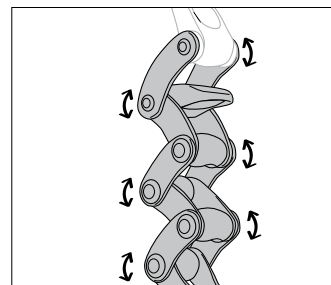
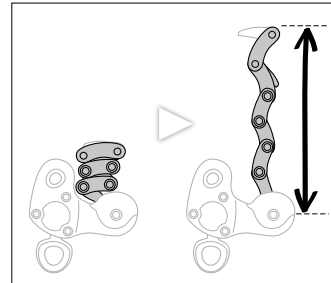
4. Inspecting the friction chain



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

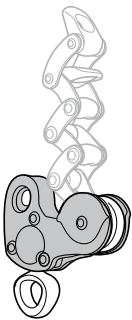


- Verify that the friction chain extends and compresses freely. If necessary, clean with soap and water and lubricate lightly (ex. graphite powder).

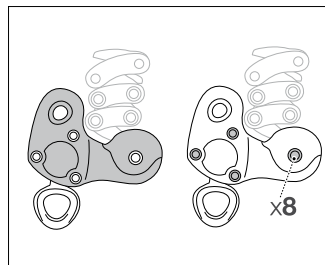


- Inspect each link individually to verify that they turn smoothly without catching.

5. Inspecting the frame



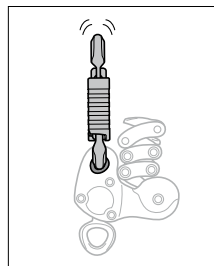
- Check the condition of the frame and rivets (marks, deformation, cracks, corrosion, lack of play...).



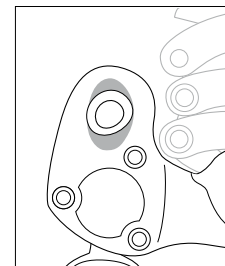
- Check for wear at the points where the friction chain stops against the frame. Look for sharp edges that could damage your rope. If necessary, round any sharp edges with fine-grain sandpaper.



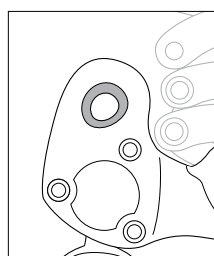
- Before removing the connector, verify that it is still properly held by the positioning ring.



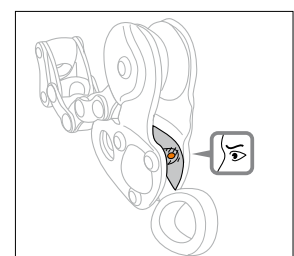
- Check the edges of the attachment hole for wear caused by connectors.



- Check the condition of the positioning ring (deformation, cracks, cuts...). Take care to avoid lubricating this area; it must stay dry to position the carabiner.



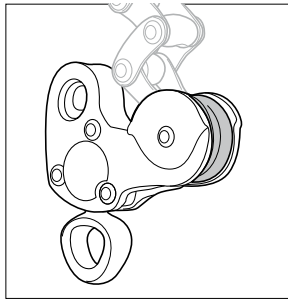
- Check the condition of the plastic piece, especially in the rope passage. Wear of the plastic part will eventually make the metallic rivet visible. Retire your ZIGZAG if this rivet also becomes worn.



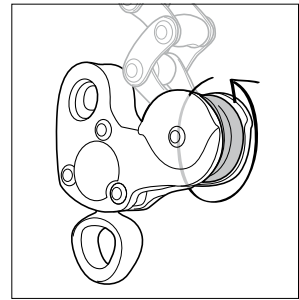
6. Inspecting the sheave and swivel



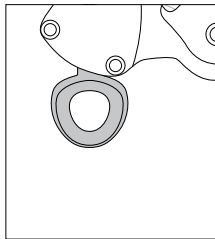
- Check the condition of the sheave (marks, deformation, corrosion, absence of foreign bodies...).



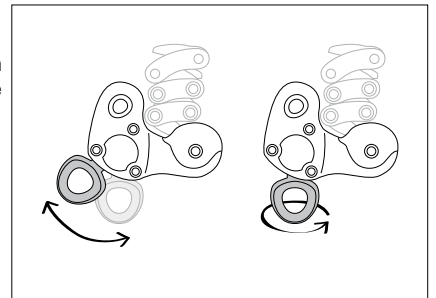
- Verify that the sheave turns freely.



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

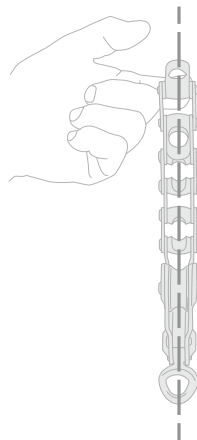


- Verify that the swivel turns freely and that there is no play between the swivel and the frame (if necessary lubricate with graphite powder).



7. Checking alignment of the parts

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



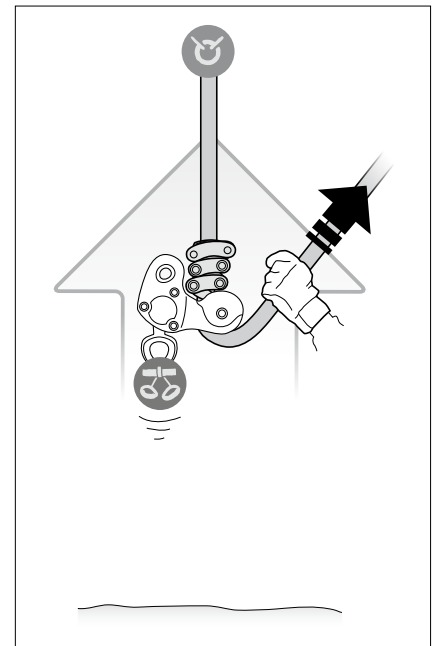
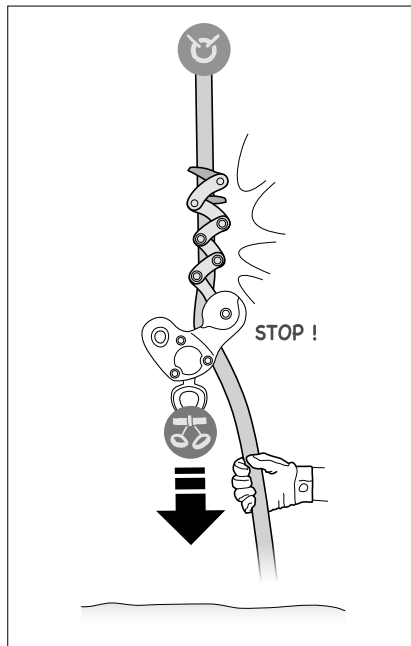
8. Function test: rope grabbing

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 Instructions for Use).

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

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



9. 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.

