

- 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](http://PETZL.COM)

## ZIGZAG / ZIGZAG PLUS / CHICANE



### 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...).

### 2. Preliminary observations

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

**Note:** the serial number code on our products is evolving. Two types of code will coexist. See below for details on each serial number code.

Code A:

**00 000 AA 0000**

Year of manufacture	.....	.....	.....	.....
Day of manufacture	.....	.....	.....	.....
Name of Inspector	.....	.....	.....	.....
Incrementation	.....	.....	.....	.....

Code B:

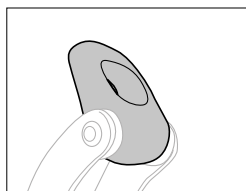
**00 A 0000000 000**

Year of manufacture	.....	.....	.....	.....
Month of manufacture	.....	.....	.....	.....
Batch number	.....	.....	.....	.....
Incrementation	.....	.....	.....	.....

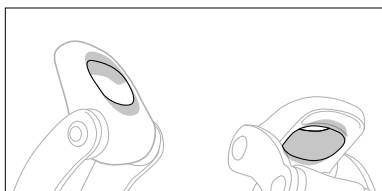
Verify that the product lifetime has not been exceeded.

Compare with a new product to verify there are no modifications or missing parts.

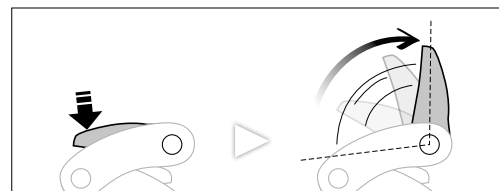
### 3. Checking the release lever



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



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

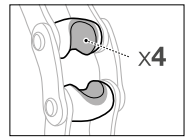
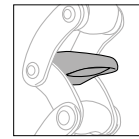
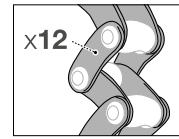
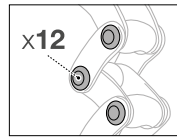


- Check the effectiveness of the return spring. Repeat the test at least ten times.

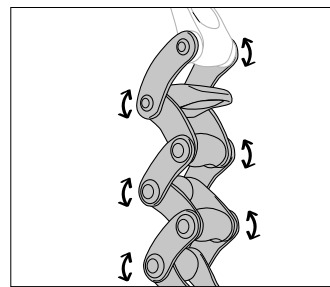
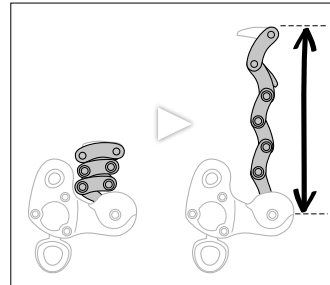
#### 4. Inspecting the friction chain



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



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

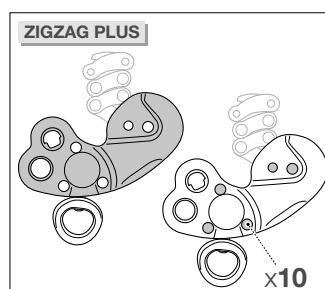
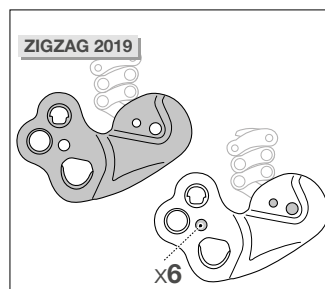
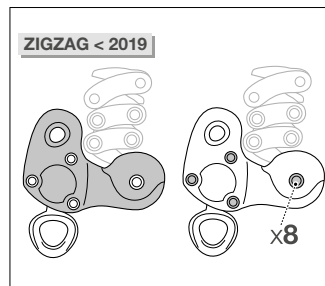


- Inspect each link individually to verify that they turn smoothly without catching.

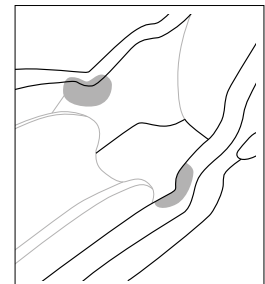
#### 5. Inspecting the frame



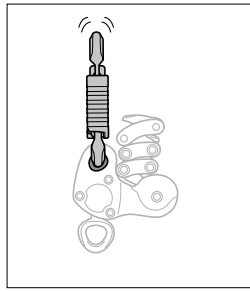
- Check the condition of the frame and rivets (marks, deformation, cracks, corrosion, lack of play...).



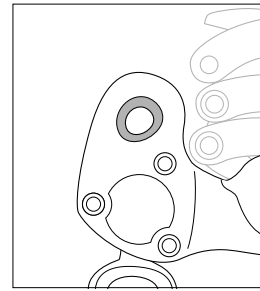
- On pre-2019 ZIGZAG, check for wear at the points where the friction chain stops against the frame. Look for sharp edges that could damage your rope. If necessary, round any sharp edges with fine-grain sandpaper.



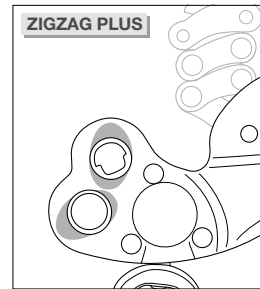
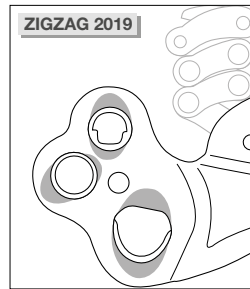
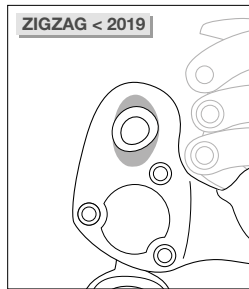
- Before removing the connector, verify that it is still properly held by the positioning ring in the rope termination attachment hole.



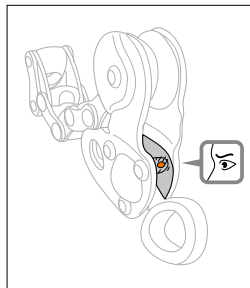
- Check the condition of the positioning ring (deformation, cracks, cuts...). Take care to avoid lubricating this area; it must stay dry to position the carabiner.



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



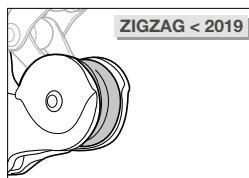
- Check the condition of the plastic part, especially in the rope path. Wear of the plastic part will eventually make the metal rivet visible. Retire your ZIGZAG if this rivet also starts to become worn.



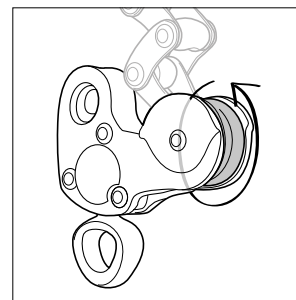
## 6. Inspecting the sheave and swivel



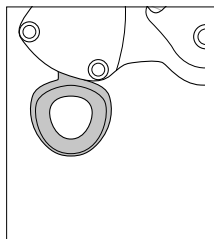
- Check the condition of the sheave (marks, deformation, corrosion, absence of foreign bodies...).



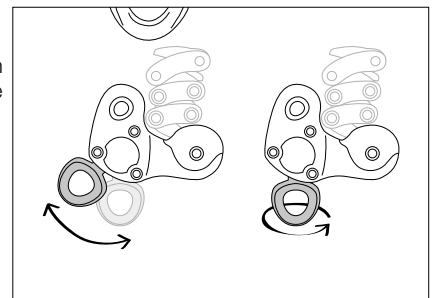
- Verify that the sheave turns freely.



- On pre-2019 ZIGZAG and on the ZIGZAG PLUS, check the condition of the swivel (cracks, deformation...).

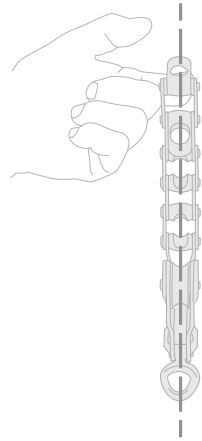


- Verify that the swivel turns freely and that there is no play between the swivel and the frame (if necessary lubricate with graphite powder).



## 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 of the chain parts and of the frame.



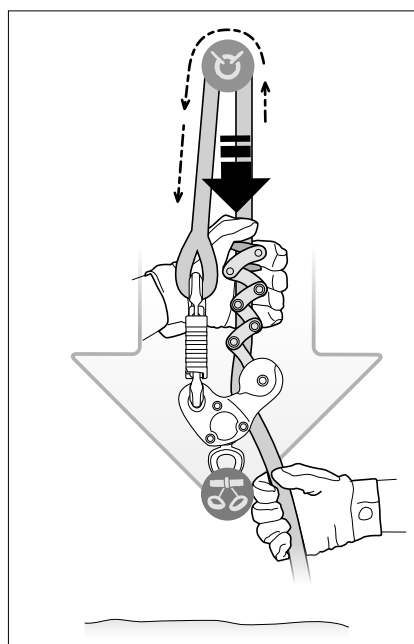
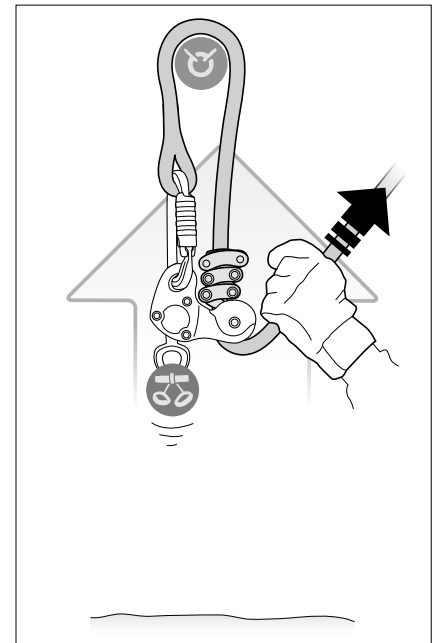
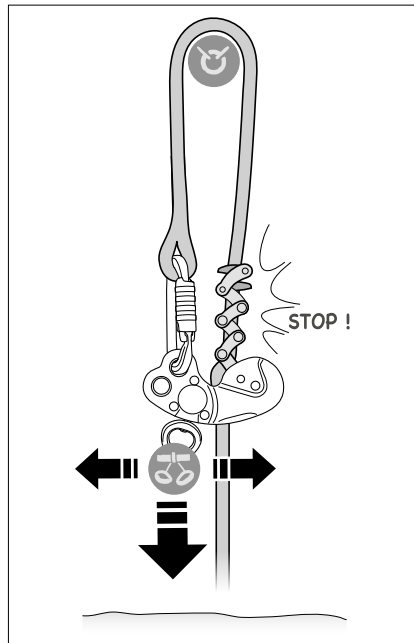
## 8. Function test: locking on rope and unlocking under load

Use the different rope diameters recommended by the manufacturer (11.5 to 13 mm). Install the ZIGZAG in work configuration (double mode), and hang from it at a very low height.

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

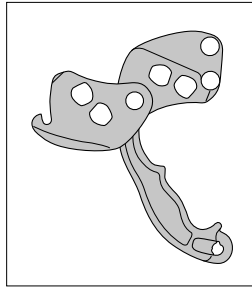
- Verify that the ZIGZAG slides upward when the rope below the device is pulled.

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

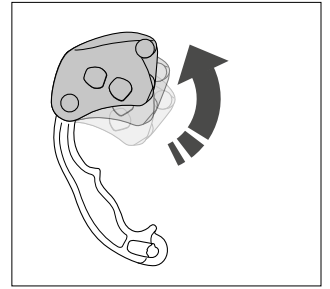


## 9. Inspecting the CHICANE

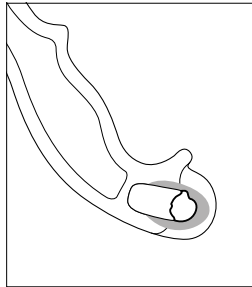
- Check the condition of the handle, frame and moving side plate (marks, deformation, cracks, corrosion...).



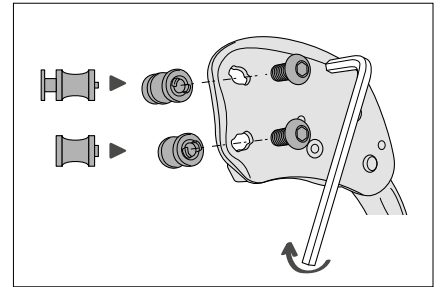
- Check the articulation between the handle and the frame, and the effectiveness of the return spring.



- Check the condition of the ZIGZAG attachment hole (wear, marks, cracks), and the presence and condition of the connector positioning piece.



- Check the tightness and condition of the friction pins (wear, deformation, corrosion). Rotate or replace the pins if necessary.



- Check the condition of the opening buttons (marks, wear, dirt), and verify that the moving side plate closes properly.

