



# Latchways Personal Rescue Device®

Periodic Examination  
Instructions Guide

R20

# Guidance notes in the use of this periodic examination instructions manual

## Periodic examination instructions

These are the detailed descent device and harness checks that should be carried out by a competent person at least once every twelve months; however, local, state, governmental and jurisdictional agencies may require more frequent or mandatory periodic examinations of which the user is required to comply. Additionally, environmental conditions may be such that more frequent periodic examinations may also be necessary. The periodic examination should be recorded in the periodic examination log.

**WARNING: No repairs, modifications or alterations are to be carried out on the Latchways Personal Rescue Device™ (PRD).**

## Competency

The PRD has been specifically designed as a user-friendly device, incorporating a range of features to aid pre-use checks and on-site periodic examination. Therefore, no disassembly or servicing is required. However, if during the examination defects or concerns are found, the unit shall be removed from service and returned to Latchways or authorised agent.

Periodic examination should be carried out by an authorised Latchways technician only. An authorised Latchways technician means a person who is trained and approved by Latchways in identifying hazards or dangerous conditions of the PRD. This manual is intended to serve as a reminder of the processes required for a full examination, and not a comprehensive set of instructions.

## Periodic examination log

Dates and Details of examinations must be recorded in the 'Periodic Examination Log' and the label located on the device drum ('Examination Date' label—Latchways part number 68200-42) must be updated accordingly.

## Safety equipment

Ensure that you carry out any service procedures in conjunction with local safety rules.

In addition, ensure that you are wearing **gloves**.

## Note

This service guide must be reproduced or printed in colour to ensure correct guidance is followed.

## Examination procedure

1

### Tools needed

To carry out this periodic examination of the PRD you will require the following basic tool set.

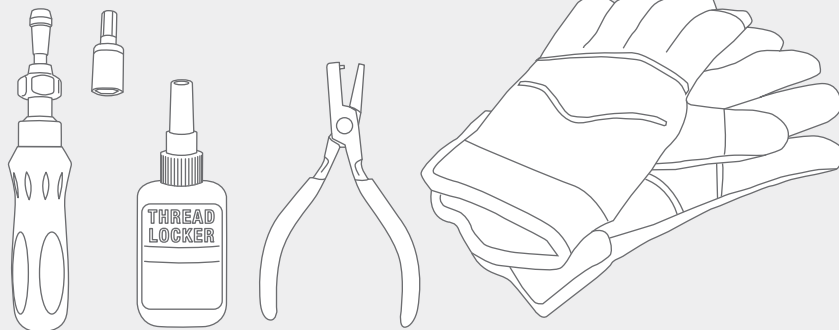
#### Safety Gloves

1 x 3 mm Hexagonal Bit

1 x Torque Wrench capable of 1 – 3 Nm

Loctite 2701 Thread Locker

1 x Hole Punch



**WARNING**

Never attempt to modify or disassemble any components within the PRD other than those stated in this guide.

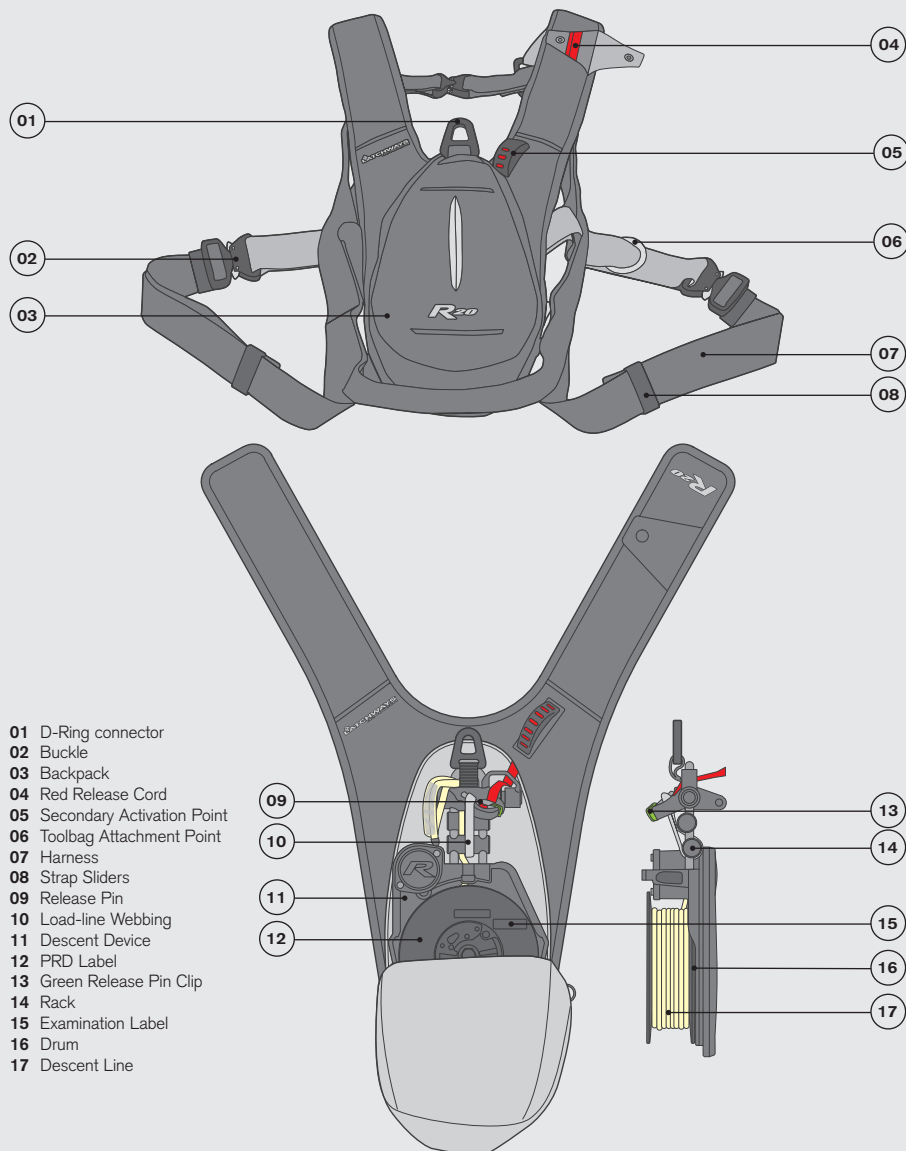


# X WARNING

Never attempt to modify or disassemble any components within the PRD other than those stated in this guide.



## Part names and terminology



## Replacement kits

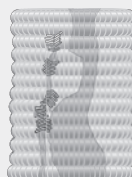
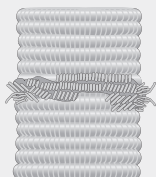
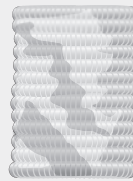
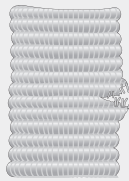
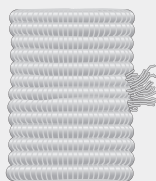
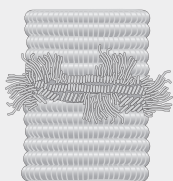
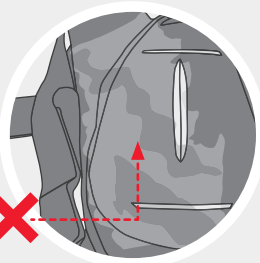
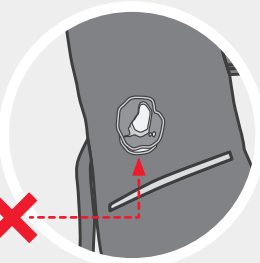
	'Examination Date' labels	Back cover gasket
Latchways part number	68200-42	68200-22

2

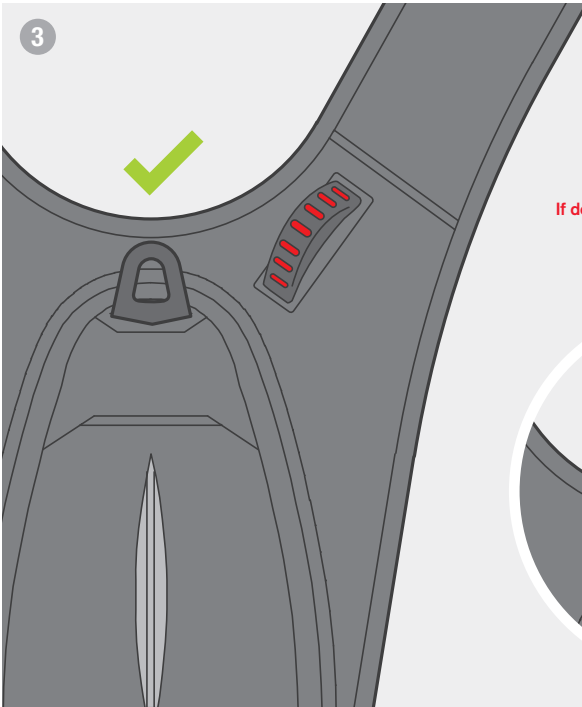
## General inspection

Inspect the general condition of the PRD harness and backpack for signs of damage, contamination, abrasion, fraying, tears, burns, mould discolouration or chemical attack.

**If excessive signs of the above are found, remove the PRD from service and refer to Latchways or authorised agent.**



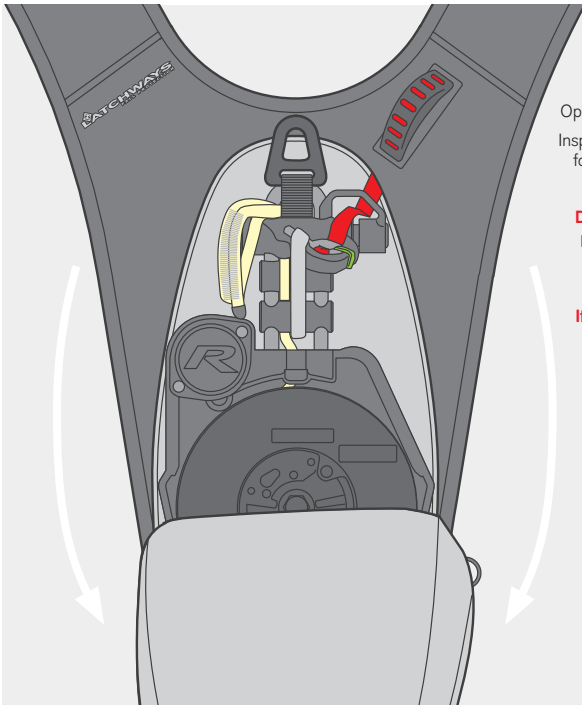
3



## DESCENT DEVICE PRD D-ring

Inspect the D-ring connector for signs of damage, excessive wear, distortion, corrosion or cracking. Ensure that the descent line is not paid out of the device, this would indicate that a descent has occurred.

If descent line is paid out remove the PRD from service and refer to Latchways or authorised agent. ❌



4

## Open backpack

Open the backpack containing the descent device.

Inspect the general condition of the descent device for signs of damage or corrosion. Ensure that the drum label is present and legible.

Damage to the drum label may indicate potential misuse, in which case further investigation would be necessary by Latchways or authorised agent. ❌

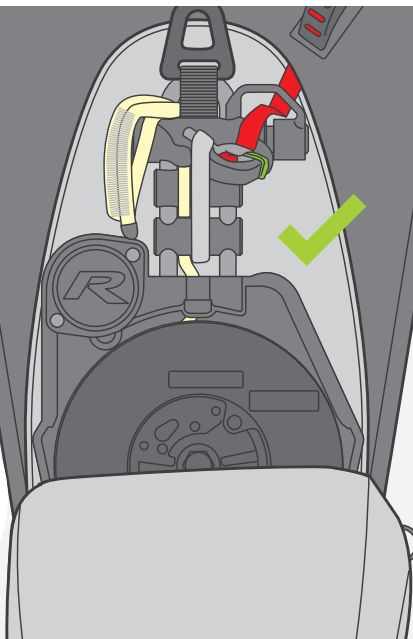
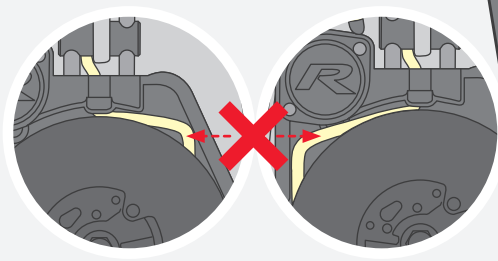
If damage is apparent, remove the PRD from service and refer to Latchways or authorised agent. ❌

5

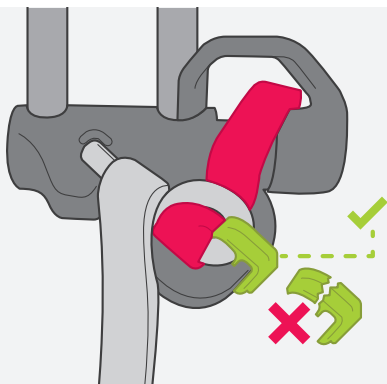
## Rope slack

Inspect descent line for any 'slack' between the drum and rack.

**✗ If line shows any sign of slack, remove the PRD from service and refer to Latchways or authorised agent.**



6



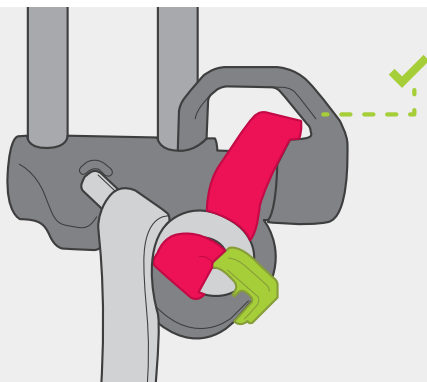
## Release pin

Inspect the release pin for signs of damage, distortion, corrosion or cracking. Ensure that it has not been disengaged. Ensure that the red release cord is positioned under the release pin and that the load-line webbing is looped around the release pin.

Ensure that the green release pin clip is present and undamaged—check for signs of damage, distortion or cracking.

**If damage is apparent remove the PRD from service and refer to Latchways or authorised agent. ✗**

7



## Release cord

Ensure that the release cord guide is undamaged.

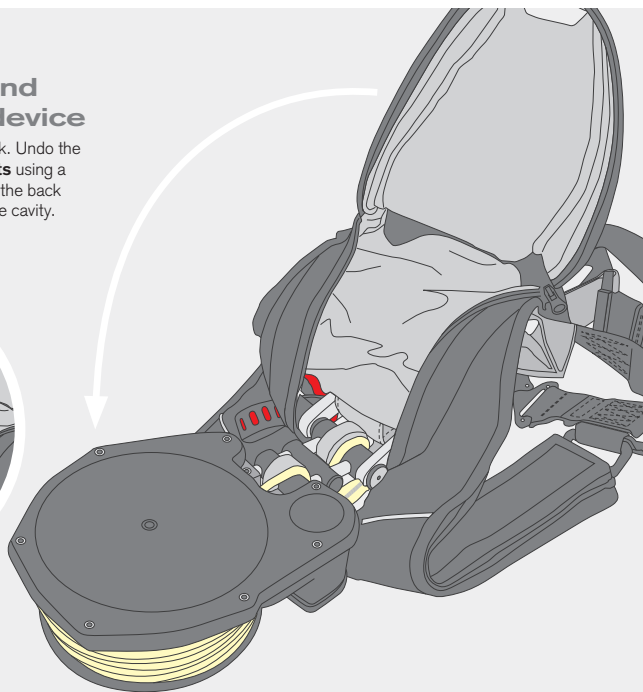
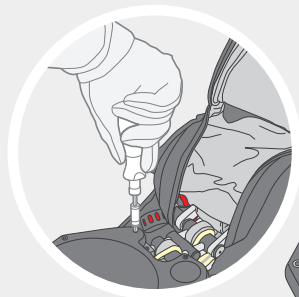
Inspect the descent line, load-line and release cord for signs of cuts, abrasion, fraying, tears, mould, discolouration, chemical attack or excessive build-up of dirt. Check the stitching for signs of loosening, pulling or cut thread. Excessive build-up of dirt may prevent the descent line from pulling through the device.

**If damage is apparent remove the PRD from service and refer to Latchways or authorised agent. ✗**

8

## Open backpack and remove descent device

Remove descent device from backpack. Undo the seven **M4 × 12 socket caphead bolts** using a 3 mm hexagonal bit. Carefully remove the back cover, retaining the silicon gasket in the cavity.

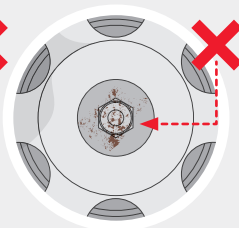
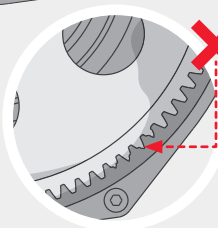
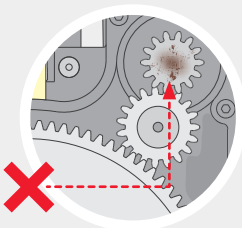
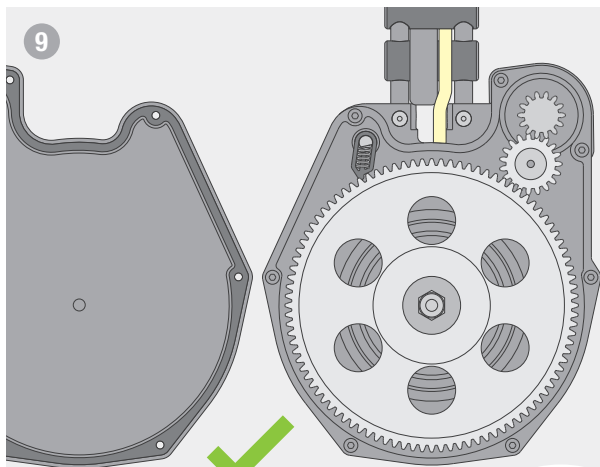


9

## Remove back case

Once the back cover is removed, inspect the general conditions for signs of water ingress, corrosion, contamination or damage.

If any damage is found, remove the PRD from service and refer to Latchways or authorised agent. ❌

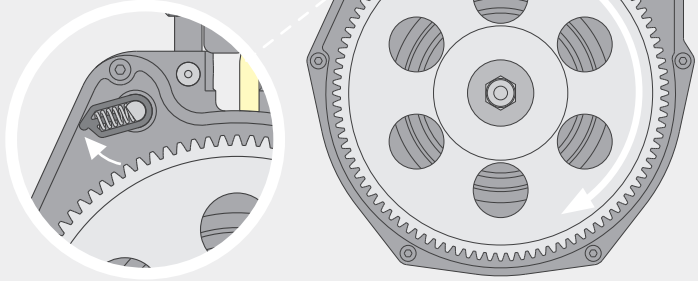


10

## Check main gear and ratchet

Rotate the ratchet clockwise. Turn the main gear by hand in both directions to ensure that it is still free to rotate.

**✗ If the gear is not free to rotate, remove the PRD from service and refer to Latchways or authorised agent.**



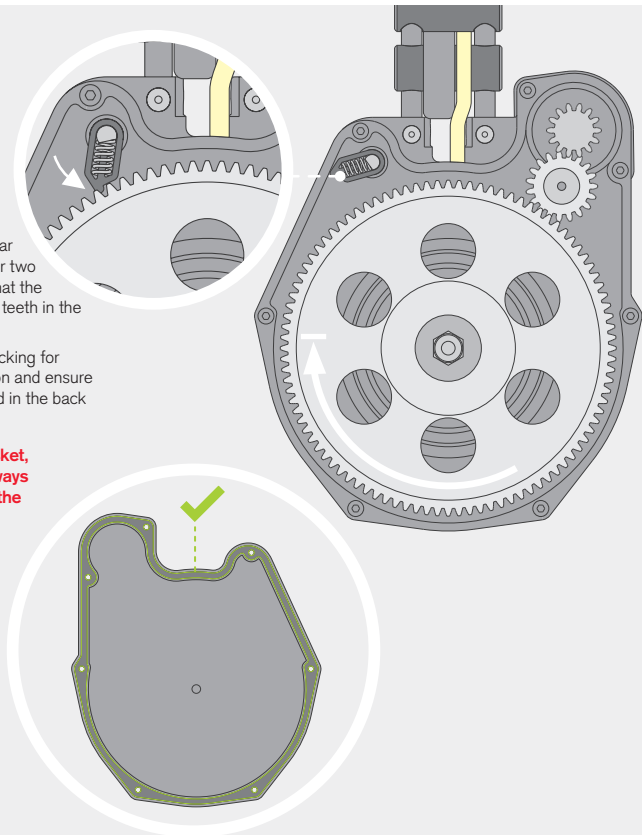
11

## Replace ratchet and main gear

Ensuring no slack line on the drum, rotate the gear clockwise as far as it will go. Whilst holding the gear, rotate the ratchet anti-clockwise, back into place, then release the main gear. The gear may rotate anti-clockwise for one or two clicks—this is acceptable. Check that the ratchet tip is fully engaged with the teeth in the main gear.

Inspect the back cover gasket, checking for damage, contamination, degradation and ensure that it is fully seated and not twisted in the back cover cavity.

**✗ If damage is apparent to the gasket, it must be replaced (Latchways part number 68200-22), or the PRD removed from service and referred to Latchways or authorised agent.**

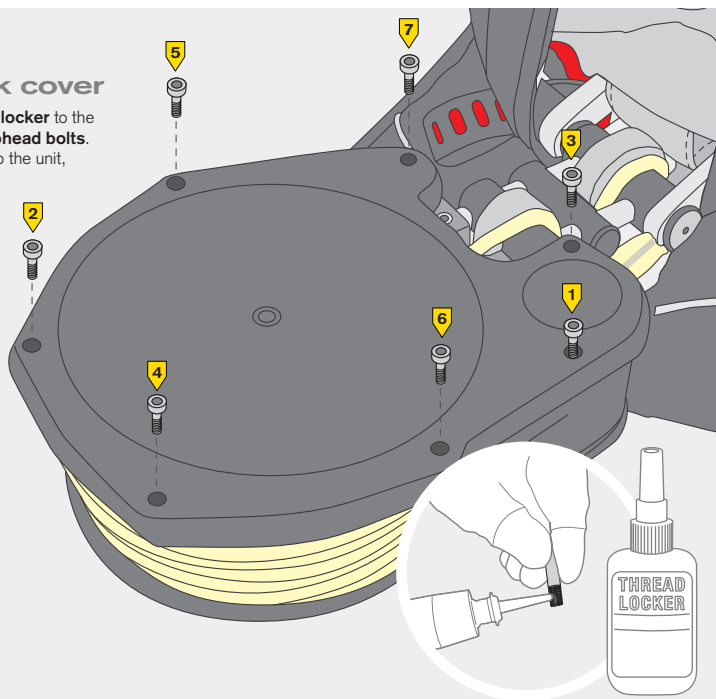




12

## Replace back cover

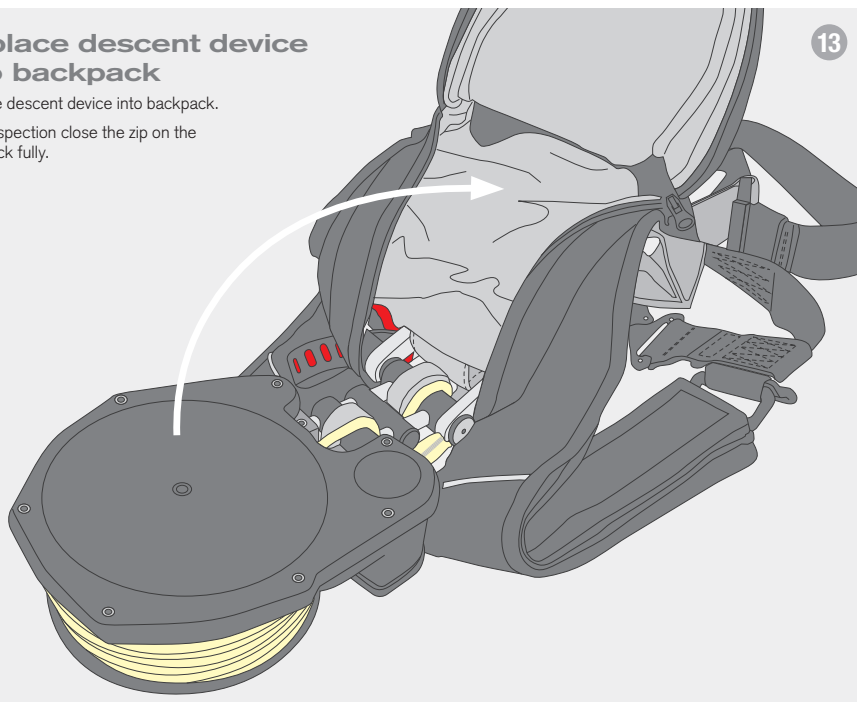
Apply **Loctite 2701 threadlocker** to the seven **M4 × 12 socket caphead bolts**. Replace the back cover onto the unit, and secure using the bolts, torquing to 1.5 Nm each. It is good practice to tighten bolts at opposite ends of the back cover.



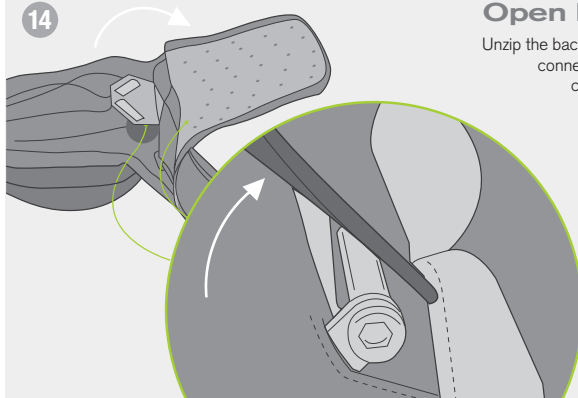
## Replace descent device into backpack

Replace descent device into backpack.  
After inspection close the zip on the backpack fully.

13



14



## Open back side of backpack

Unzip the back panel of the backpack and inspect the harness connector for signs of damage, distortion, corrosion or cracking. Ensure that the fastening bolt is secure.

If damage is apparent remove the PRD from service and refer to Latchways or authorised agent. **X**

## HARNESS

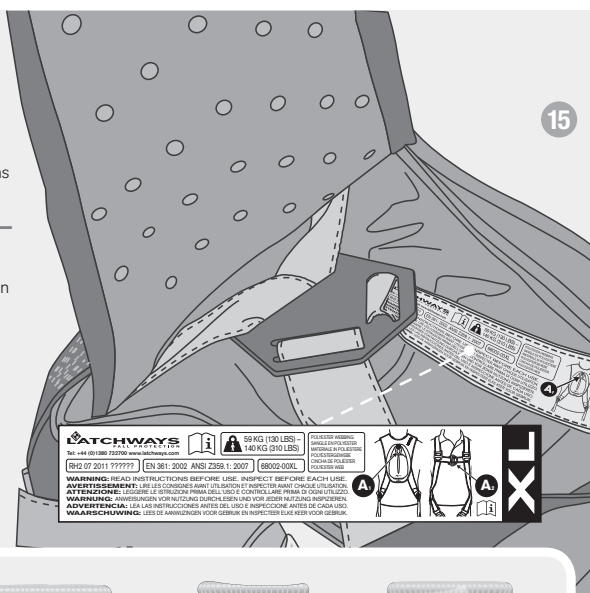
**NOTE:** If PRD is used with a harness not supplied by Latchways, inspect the harness in accordance with the instructions provided with the harness **in addition to** the following instructions. Note that in such cases, labels and/or metalwork may be in different locations to those pictured.

### Webbing inspection — part 1

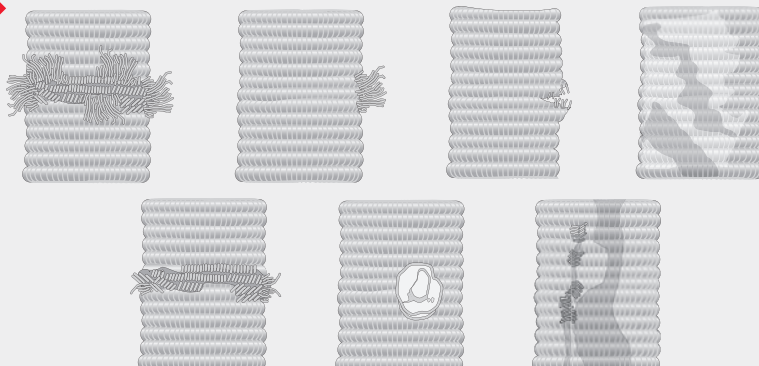
Check the legibility of the product markings on the harness.

Check all webbing for signs of cuts, abrasion, fraying, tears, burns, mould, discolouration or chemical attack.

**X** If any sections of webbing show damage, remove the PRD from service and refer to Latchways or authorised agent.



15



## Webbing inspection — part 2

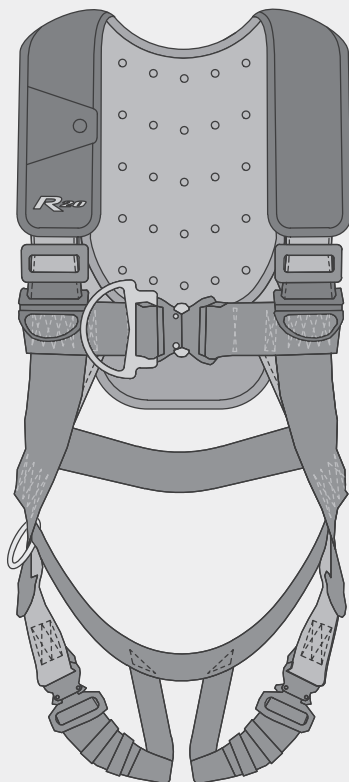
Run webbing through the hands whilst twisting lightly to check for surface defects or changes in the flexibility of the material. Localised hardening of the webbing may indicate damage or excessive wear. Rough areas present on the surface of the webbing may indicate abrasion of the webbing.

- ✗ If any sections of webbing show damage, remove the PRD from service and refer to Latchways or authorised agent.
- ✗ If the harness has been subjected to paint overspray, it must not be used and should be referred to Latchways or authorised agent.

16



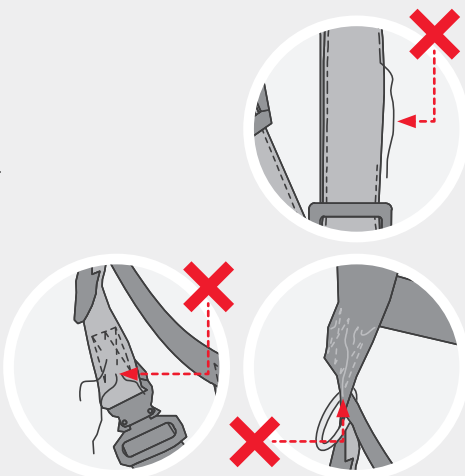
17



## Stitching inspection

Check all stitching for signs of loosening, pulling or cut thread. There must be no evidence of damaged stitching on either side of the stitch pattern.

- ✗ If any sections of stitching show damage, remove the PRD from service and refer to Latchways or authorised agent.

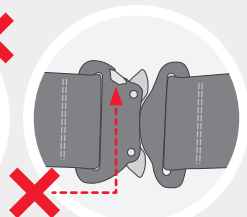
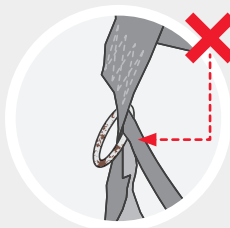
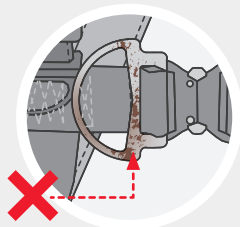
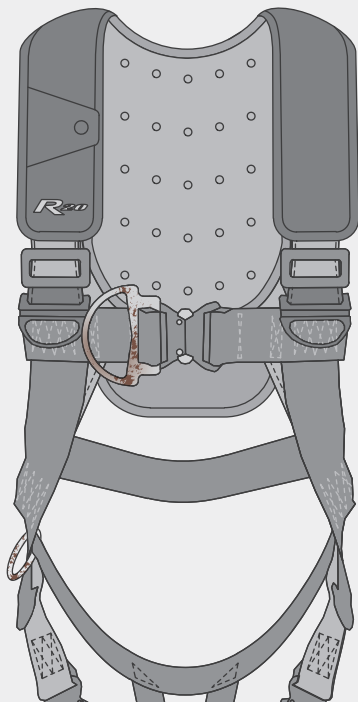


18

## Metalwork inspection

Check metal fittings for damage, corrosion, deformation or cracking. Check edges of buckles and D-rings for burring or sharp edges. If any coatings on metallic components have worn, ensure that the underlying metal surface does not show any corrosion.

**If there are any signs of corrosion, remove the PRD from service and refer to Latchways or authorised agent.**

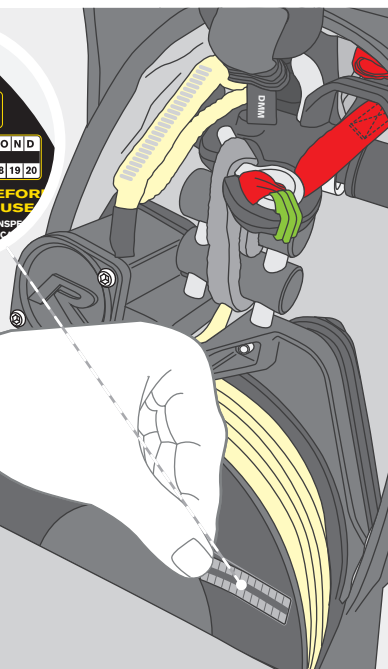
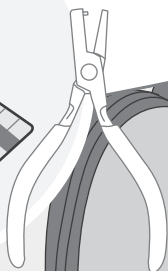
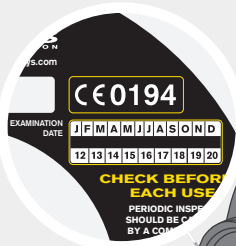


19

## Replace examination label

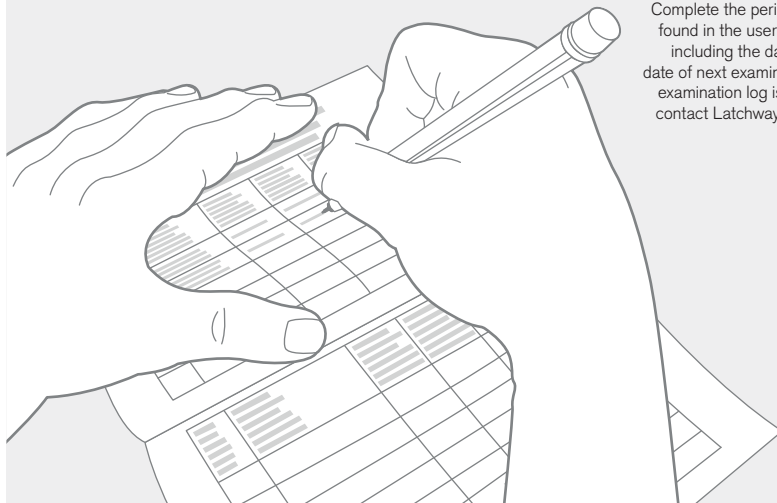
Remove examination date label from device drum as shown.

Mark the new examination date label with the date of the next due certification with the aid of a hole punch, and place into the window in the main label as shown.



## Complete periodic examination log

Complete the periodic examination log found in the user manual of the PRD, including the date of inspection and date of next examination. If the periodic examination log is missing or illegible, contact Latchways for a replacement.

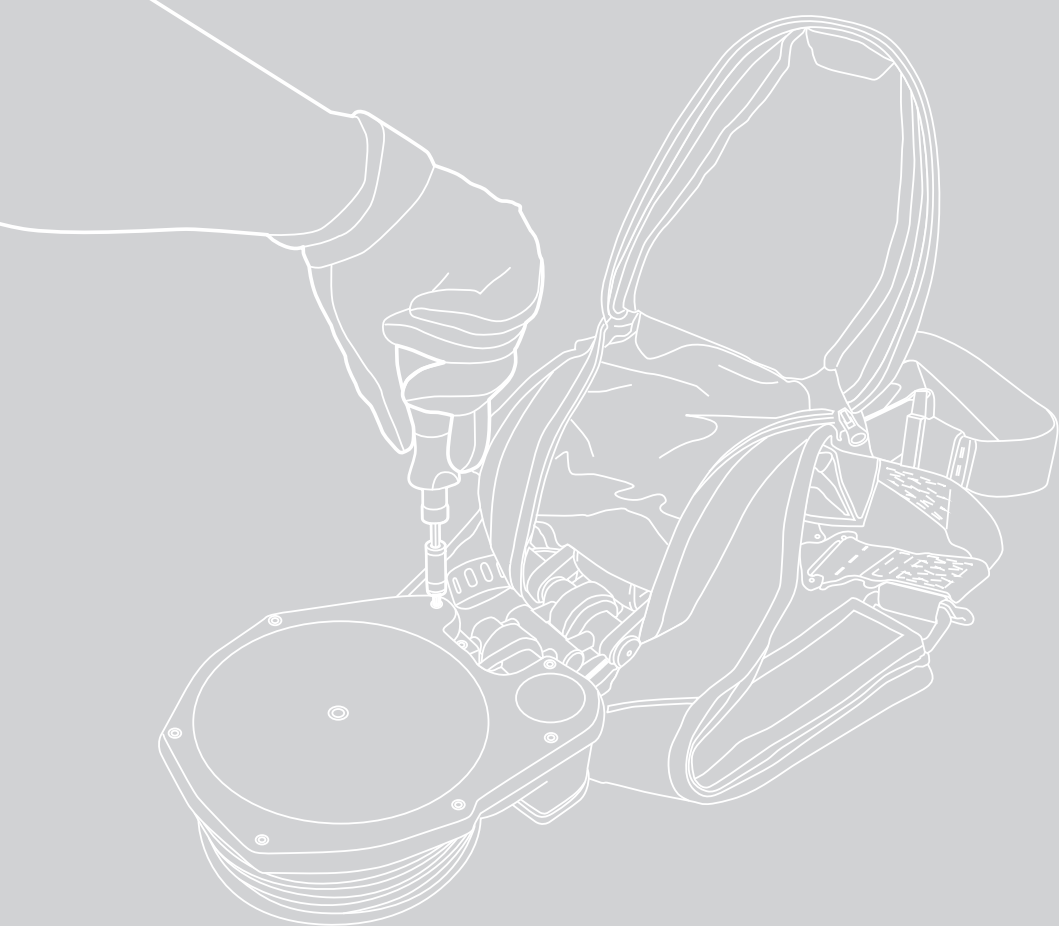


Providing every section of this service guide has been completed, the PRD is now fully examined and can be returned to service.



## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Latchways Personal Rescue Device® is a registered trademark of Latchways plc



Latchways plc, Hopton Park, Devizes, Wiltshire, SN10 2JP, England

Tel: +44 (0)1380 732700 Fax: +44 (0)1380 732701

Email: [info@latchways.com](mailto:info@latchways.com) Website: [www.latchways.com](http://www.latchways.com)

62801-97UK\_Issue 1