Trutrack Loggers—Mk4 HR Series Battery Replacement

Mk4 HR Series Battery Replacement

The Mk4 version of the HR series of loggers has a user replaceable battery. No soldering or sealant is required. Earlier versions of the HR logger had a factory or technician replaceable battery. This required soldering and using sealant.



How do I know if my HR logger is a Mk4 version?

- Battery voltage is 7.2 volts (not 3.6 volts).
- There is a small "4" in a triangle shape on the loggers label.
- The battery enclosure at the back of the logger is 77mm long (not 55mm).

The replacement battery kit for the HR Mk4 logger includes:

- · Replacement battery.
- Replacement label.
- Instruction sheet.

Extra Parts for HR Mk4 logger

- If needed (any coloured wires), the Stainless steel Mk4 tube (battery enclosure).
- 2 16x1mm O rings (battery enclosure).
- 1 014EPR O ring (communications socket).

Instructions for changing a HR series MK4 Battery

- · Remove the label.
- Gently unscrew the battery pack from the logger. Only one and a half turns are required (see fig 1).
- Look at the wires inside the logger. If they are all grey you do not need to replace the stainless steel battery enclosure. If they are red, black, orange and yellow the battery enclosure will need to be replaced with the Stainless Mk4 tube (battery enclosure) (see fig 2).
- Disconnect the 2pin white plug connected to the battery wires from the logger printed circuit board. Squeeze and withdraw (see fig 3).
- Withdraw the battery from the battery enclosure (see fig 4).
- If you need to replace the battery enclosure, disconnect the 3pin white plug connected to the battery enclosure and connect the new battery enclosure (with grey wires).
- Note that both the 2pin and 3pin connectors have a small keyway on one side so that they can only be connected the correct way around (see fig 5 and 6).
- Check that the two O rings on the battery enclosure thread for damage and replace if necessary.
- Slide the new battery into the battery enclosure being very careful not to damage or squash the thin grey communications wires.
- Connect the plug from the new battery to the logger printed circuit board.
 It will only connect the correct way around.



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- Rotate the battery enclosure in an anti-clockwise (counter clockwise) direction to pre-twist the wires before screwing on (see fig 7).
- Ensure that no wires are going to be captured or damaged by screwing on the battery enclosure.
- Bring the thread of the battery enclosure into contact with the thread of the logger.
- Make sure the battery enclosure and the logger body are exactly aligned.
- With small positive pressure, screw the battery enclosure into the logger body (see fig 8).
- If the battery enclosure rotates more than one revolution without the threads engaging, stop and repeat the process.
- Check that the O ring on the communication socket for damage, and replace if necessary (see fig 9).
- Connect the logger to a computer and check the battery voltage on the real-time screen.
- If everything is OK, replace the label with the new label provided (see fig 10).

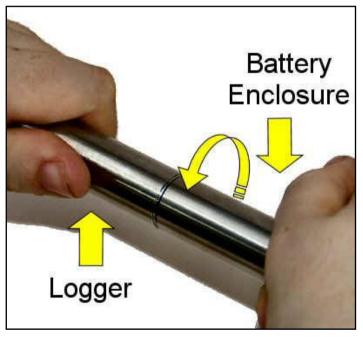


Fig 1: Unscrew battery enclosure Anti-clockwise.



Fig 2: Identify the Battery and
Communications wires.
Note: If any of the wires are red, black,
orange and yellow the battery enclosure will
need to be replaced with the Stainless Mk4
tube (battery enclosure).



Fig 3: Unplug the connections.



Fig 4: Withdraw the old battery.

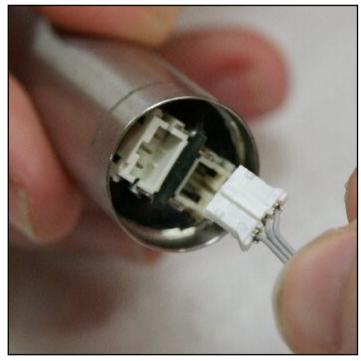


Fig 5: Plug in connections observing the 'key' on the plug.

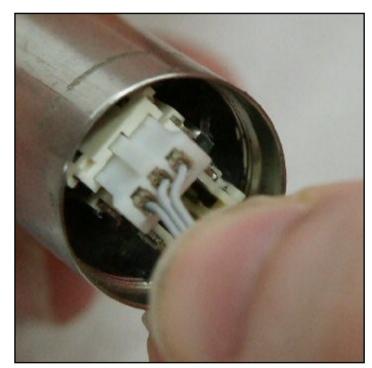


Fig 6: Connect both of the plugs.

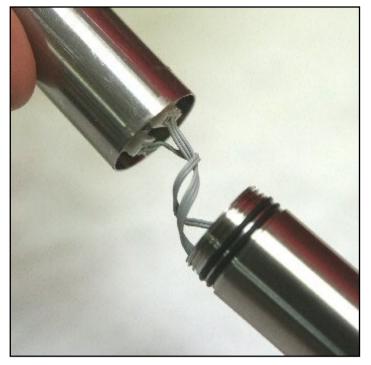


Fig 7: Pre-twist the wires Anti-clockwise.



Fig 8: Screw together.



Fig 9: Check Communications Socket O-ring and replace if damaged.



Fig 10: Replace label.



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