

Digital Cellular Level Monitor

Battery Pack Replacement Guide

Provided Equipment:

Replacement Guide
Battery Pack Assembly
O-ring grease pack

Tools Required:

#2 Phillips Screwdriver
Wire Cutters
Original Magnet Assembly

Tie Wrap



WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD. DO NOT RUB MONITOR HOUSING WITH A DRY CLOTH. SEE INSTRUCTIONS.

Moisture entrapment may cause Monitor reduced life. Do not perform this procedure in the rain or in a damp environment. Use only manufacturer supplied 086662 Series Battery Replacement Kit for Digital Cellular Monitors. To guard against static discharge, ground yourself by touching a grounded metal object before performing this procedure.

Step 1. Remove Upper Housing

Securely mount the Monitor in a clamp or vise in an upright position (or leave Monitor installed on the tank if safe access is possible). Carefully remove the (3) screws securing the upper housing with a #2 Phillips Screwdriver (Save screws for re-installation). (Fig. 1).



Fig. 1

Important note: The sealing O-ring may create a strong suction and provide resistance to removal.

Gently rock the upper housing back and forth to loosen the O-ring seal and allow the pressure to equalize. Next, lift off the upper housing making sure to clear the internal circuit board.

Step 2. Disconnect the Old Battery Pack

Squeeze the release tab on the battery pack power connector and pull back until the connector is free of the circuit board (Fig. 2).

Important note: Be careful not to grab, bump, or squeeze the glass reed switch at the top notch of the circuit board. Breaking this glass reed switch will cause the Monitor to have reduced battery life and not respond to magnet strikes.

Next, cut the tie wrap that is holding the top of the battery pack to the Printed Circuit Assembly (PCA) with the wire cutters. Remove the old battery pack by leaning the pack away from the PCA and lifting out to clear the lower housing (Fig. 3).

Glass Reed Switch

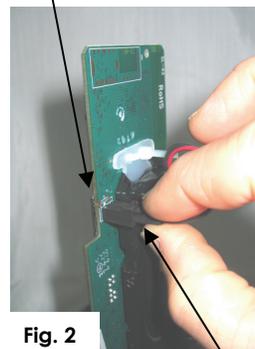


Fig. 2

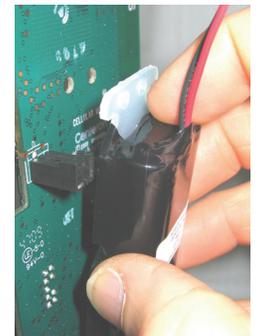


Fig. 3

Release tab

Step 3. Connect the New Battery Pack.

Reverse the removal procedure to install the new battery pack. With the assembly at an angle, insert the battery board legs into the cavities of the lower housing making sure that the legs are positioned near the center of the housing (Fig 4) and that the battery pack sits flat against the PCA.

Next, align the two battery pack board-mounting holes with the holes on the PCA. Feed the tie wrap through the holes in both the PCA and battery assembly, pull tie wrap secure (Fig. 5), and trim off the excess leaving at least 1/4" (Fig. 6). Squeeze the release tab and insert the power connector into the circuit board receptacle until it latches.

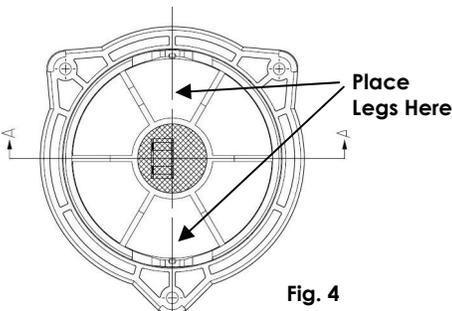


Fig. 4

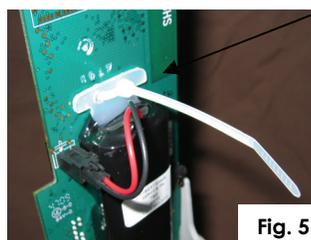


Fig. 5

Tie Wrap
battery pack
to PCA

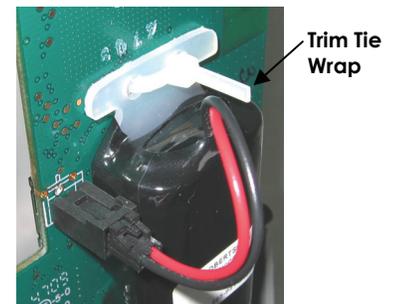


Fig. 6

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Step 4. Re-install the Upper Housing.

Position the O-ring along the sealing ledge of the lower housing (if equipped with a second O-ring make sure this O-ring sits directly on top of the first O-ring without overlapping). Use the supplied O-ring grease and apply a thin coat all the way around the outside of the O-ring(s) (Fig. 7).

Place O-ring on ledge and lubricate

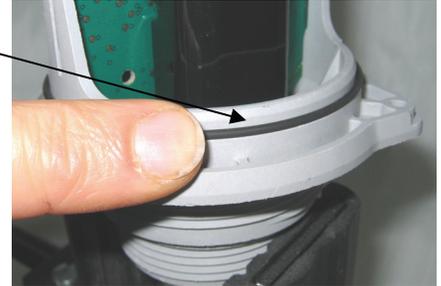


Fig. 7

Important note: Proper positioning and lubrication of the sealing O-ring(s) is necessary to ensure a watertight seal of the Monitor enclosure.

Next, lift the upper housing over the circuit board and internal antenna at a slight angle making sure the slot in the housing aligns with the notch in the circuit board (Fig. 8).

Lastly, push down the upper housing flange so that the O-ring(s) engage and the ears align with the lower housing flange. Install the (3) housing screws making sure to align the screws with the existing threads of the lower housing (Do not cross-thread!). Tighten all screws until snug.

Important note: Be careful not to over tighten the screws and strip the threads in the plastic lower housing.

Step 5. Monitor Magnet Strike.

Once the Monitor has been re-assembled and mounted into the tank, a magnet strike will force the device to immediately transmit and resume its last saved schedule. To perform a magnet strike, insert and remove the original shipping magnet in the slot of the upper housing (Fig. 9).

Note: If a magnet strike is not performed, the Monitor may take up to 2 hrs before resuming its last saved schedule.

Tip: Do not discard the magnet completely—keep it accessible for future use if needed. Do not store the magnet in the Monitor upper housing slot since this will de-activate the Monitor.



Fig. 8

Step 6. Battery Disposal.

Contact your local government for disposal or recycling practices for Lithium batteries in your area.

See Instruction Manual for additional operational information not included in this guide.



Fig. 9