

Handling a flooded grey VR2 receiver



The rated static external pressure for the VR2 receiver in a PVC case is 145 psi (100 meters depth). Physical shocks to the receiver when it is at any depth can result in considerably higher pressures on the casing than just the depth pressure.

If you suspect that water has entered the casing under pressure (a sloshing sound can be heard when the receiver is moved), handle the receiver with great care to avoid personal injury. A damaged casing may still contain compressed air when it is brought to the surface and therefore poses a safety risk. The steps listed on the following page **must be completed** before disposing of the damaged casing.

Two holes should be drilled in the PVC case to allow any compressed air to exit the VR2's PVC case. The mounting bars must be left on the VR2 during this procedure. Follow the steps listed on the following page to mark and drill the necessary holes.

Flooding may also cause the internal battery to rupture and become a chemical hazard. If you come in contact with the chemicals expelled from a ruptured battery, or if clean-up is required, read the [Lithium Batteries MSDS](#) for proper First Aid and handling instructions.

Leave the mounting bars on the VR2 during this procedure.

This procedure only applies to the VR2 receivers in the **grey** PVC case and not to the black VR2 case.

Materials Needed:

- Drill Press
- 3/16" drill bit
- Measuring ruler
- Fine tipped marker, or tape

If you have a VR2 in a black case, or a VR2W, that's flooded, then follow the instructions at http://www.vemco.com/pdf/vr2w_flooded.pdf.

VEMCO Division, AMIRIX Systems Inc.

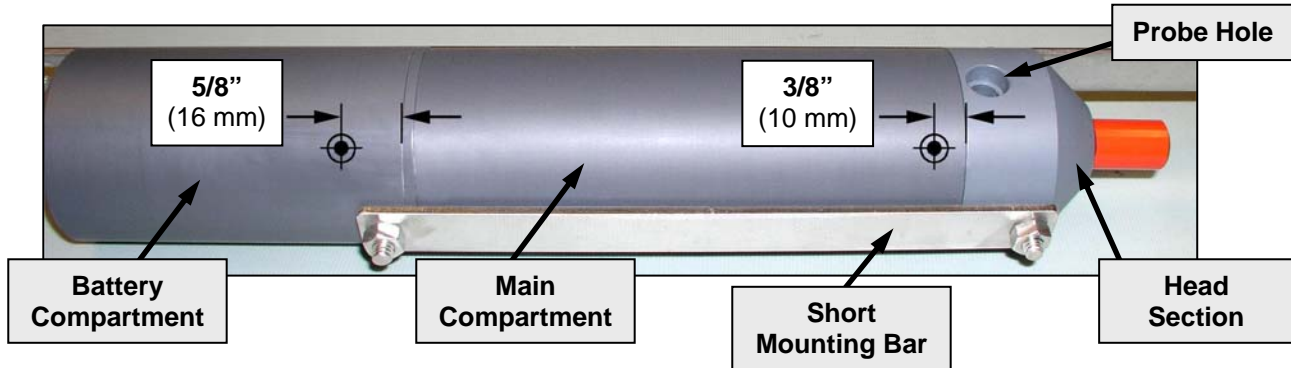
221 Horseshoe Lake Drive, Halifax, Nova Scotia, Canada B3S 0B9 Tel: (902) 450-1700 Fax: (902) 450-1704

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1. Mark Hole Locations:

- Locate the probe hole in the VR2 case, which is identified in the picture below. This hole runs through the case and one end of the hole is larger than the other. It's the larger end of the hole that we need.
- Use the marker and ruler to place a mark on the Main Compartment of the case that is approximately in the middle between the probe hole and the short mounting bar (see photo) and $\frac{3}{8}$ " (10 mm) from the seam between the Main Compartment and the Head Section. This location is shown in the picture below.

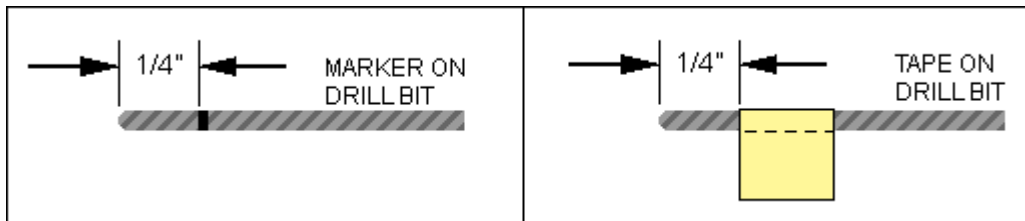
Leave mounting bars on VR2.



- Use the marker to place a second mark $\frac{5}{8}$ " (16 mm) from the Battery Compartment seam and approximately in line with the first hole, as shown in the picture below. This hole is on the Battery Compartment.

2. Prepare Drill:

- Measure $\frac{1}{4}$ " (6 mm) from the tip of the $\frac{3}{16}$ " drill bit and either use a marker to draw a line around the drill bit at that point or wrap a piece of tape around the drill bit so the tape lies above the mark and one edge of the tape is on the $\frac{1}{4}$ " mark. Both of these methods are illustrated in the sketches below.
- Install the marked drill bit in the drill press.



3. Drill Release Holes:

- Secure the VR2 receiver so it won't move during the drilling processes.
- Carefully drill a hole at one of the marked locations on the VR2 case (see Step 1) to the $\frac{1}{4}$ " depth marked on the drill bit (see Step 2). Black rubber material may come to the surface while drilling. This is the O-ring and indicates the desired depth has been reached.
- Repeat step 3.b for the other marked location.

4. After Drilling:

- Leave the VR2 in a physically stable and safe location to allow any compressed air to escape from the case.
- Dispose of the VR2W in accordance with local environmental laws.

If you come in contact with the chemicals expelled from a ruptured battery, or if clean-up is required, read the [Lithium Batteries MSDS](#) for proper First Aid and handling instructions.