VR2Tx Quick Guide

This VR2Tx Quick Guide provides information on key VR2Tx procedures. Full details for ***all*** VR2Tx procedures are found in the VR2Tx User manual and at www.vemco.com. We strongly recommend you study the full user manual before using this quick guide.

Do not bump the VR2Tx hydrophone or expose it to extreme temperature variations.

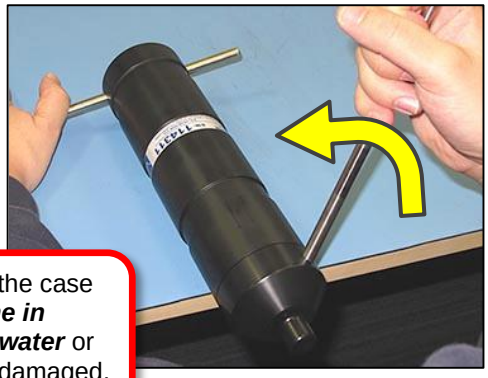
Doing so may damage the receiver and render it unable to detect transmitters.

Open Case

Place VR2Tx on clean, stable surface so hydrophone hangs off edge. We recommend working in a controlled environment.

Insert one steel rod into the Attachment hole and other one in the Bluetooth Activator Hole on the end-cap and hold on to the rods.

Apply pressure to the rod in the Bluetooth Activator Hole to turn end-cap counter-clockwise when you are facing the hydrophone. Remove rod when end-cap turns easily and continue turning by hand.

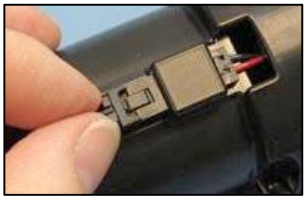


Slide end-cap and cylinder apart until the battery compartment has cleared the cylinder. Be very careful not to damage the threads on the end-cap or the VR2Tx won't close and seal properly.

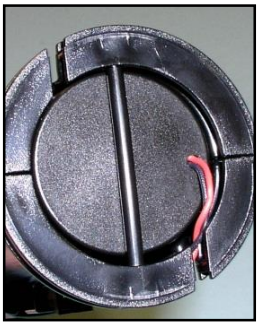
Electronics inside the case must ***NEVER come in contact with any water*** or the VR2Tx will be damaged.

Battery

The battery is held in the battery compartment by a plastic pin spanning the opening. Remove the thin O-ring before removing the pin (O-ring holds pin in place). Downward force on battery may be needed to allow pin to move.



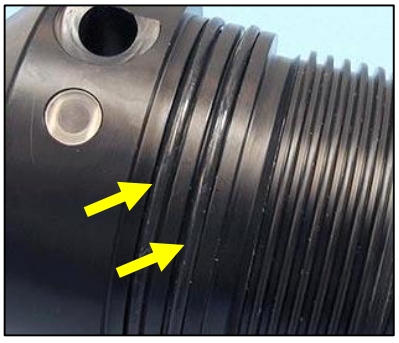
The battery is connected to VR2Tx on the side of the case. When installing the battery, listen for a "click" and watch that light flashes four times and then twice quickly every 5 seconds. When disconnecting battery, press the release tab on the battery connector and then pull connector halves apart.



TIP: Write the date on the battery.

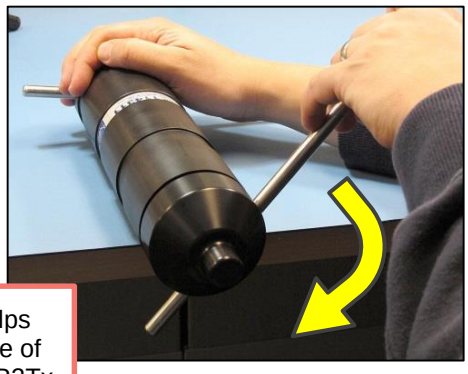
O-rings

Make sure the two O-rings in the end-cap, and the corresponding O-ring surface inside the Outer Cylinder, are clean and debris-free. If the VR2Tx has previously been deployed, replace the O-rings.



Close Case

Close the VR2Tx case by doing the reverse of opening it, but first **put a new desiccant pack in the bottom of the tube**. Slide the battery end into the Outer Cylinder. Rotate the end-cap clockwise, using the steel bars when needed.



Stop turning when the gap between the two halves is closed. Over tightening could damage the case.

A desiccant pack helps reduce the occurrence of condensation in the VR2Tx

Activate

Slide the smaller end of the Bluetooth Activator in the Bluetooth Activator Hole on the VR2Tx, near the hydrophone.

Wait until the VR2Tx's LED begins flashing a bright, long, steady flash once a second. The wait time is less than five seconds.

Remove the Bluetooth Activator.

One bright red flash every second

Bluetooth Communication

Open VUE and wait while software scans for the activated VR2Tx. If it doesn't scan, then click the "Device Scan" button.

After VR2Tx is located, double-click on the receiver icon with the correct serial number to open communication and display receiver information.

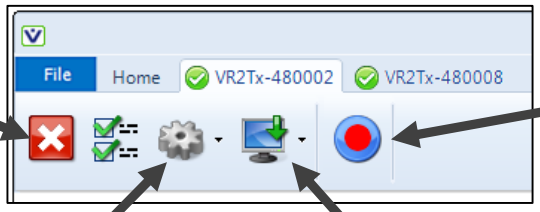
VR2Tx Status Light is continuously on during communication.

Bluetooth only works through air.

VUE Software

Actions such as starting a study, offloading data, and ending communication are performed from the Receiver tab and are started by selecting the correct icon in the tab's ribbon. Details are found in the VR2Tx user manual.

Close View – ends communication with VR2Tx and closes Receiver tab. Receiver resumes recording (does not initialize).



Start Recording – setup and begin a study; also erases VR2Tx memory

Device Options – change Transmit Profile, logging options, or setup a Watch Table

Offload data – choose to offload all data or just new data.

Attachment

Suggested minimum: 3/8" diameter nylon rope

The common method used to attach a VR2Tx receiver to a mooring line is to use five cable ties (zip tie or tie-wrap) with the following characteristics:

- 388 mm (15.25") long
- 7.5 mm (0.3") wide
- UV protected
- 120 lb tensile strength

Open the "wrap in the rope" to pass the cable tie through the rope.

Avoid shadowing or blocking the receiver with your mooring equipment. Line of sight is a must!

Status Light

No flashes = no power
2 quick red flashes every 5 sec = in Recording Mode
2 quick red flashes every 10 sec = memory is full
1 quick red flash = acoustic ping received
1 bright, long red flash = detection written to memory
1 long red flash/sec = ready for *Bluetooth* communication
On (solid red) = communicating with VUE
One short green flash = acoustic ping was transmitted
One long green flash = transmitted pings written to memory

Basic instructions for communicating acoustically with a VR2Tx while deployed are found in the receiver Field Communication Quick Guide.

Operating temperature: -5 °C to 40 °C; Water in which the VR2Tx is deployed *must not freeze*.

Static depth rating: 500 meters (730 psi)

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