



## Waterproofing Electronics

The first line of defence against moisture reaching the electronics is to make the boat completely watertight. However there are plenty of ways that water will eventually find its way into the hull (like forgetting to put the bung in) so waterproofing the electronics is a basic step in keeping the boat functioning reliably.

The product to use is CorrosionX which comes in an aerosol spay can. It is both a moisture barrier and lubricant and is effective enough that protected components will still operate completely submerged.



CorrossionX

An interesting Youtube [video](#), put up by the team at FliteTest, demonstrates the effectiveness of CorrossionX.

### ***Remove the Servo Tray***

The easiest way to start this job by removing the servo tray with the electronic components attached. See the instructions for removing the servo tray elsewhere on this site.

### ***Sail Winch & Steering Servo***

With the servo tray free of the boat, turn it over and undo the four screws securing the winch servo base plate. Lift the plate free and squirt a liberal quantity of CorrosionX into the winch. Replace the base plate taking care of the protective grommet where the ribbon cable enters the winch. Wipe up any excess CorrosionX with a paper towel and isopropyl alcohol.

Exactly the same process can be used to waterproof the steering servo.

## ***Receiver***

For the receiver, squirt CorrosionX into the case via one of the unused servo cable sockets.

## ***Power Switch***

The power switch is not easily disassembled. From the top side of the tray, squirt CorrosionX into the switch via the gap around the switch toggle. On V6 boats, the switch may be delivered without a case and the connectors on the rear of the switch sealed with hot glue. The glue doesn't always seal the connections, so give this area a liberal spray of CorrosionX.

## ***Battery Cassette***

Battery cassettes are prime candidates for corrosion with each cassette having eight electrical terminals exposed to the moist atmosphere inside the hull. Remove the batteries and spray all terminals inside the cassette. Also spray the electrical connections in the battery cable connectors.

## ***Connectors***

Finally, each connector at the receiver should be disconnected and a squirt of CorrosionX applied up each of the three pin entry holes.

## ***Bench Test***

With the servo tray still out on the bench, it's time to test that everything still works. Replace batteries in the cassette, connect the battery, switch on the transmitter and power up the boat electronics. Sail winch and steering servo should operate as normal.

## ***Replace the Servo Tray***

Follow the instruction to replace the servo tray. All done.