

VI. Troubleshooting the CTD

Trouble	Solution
Sensor readings are inaccurate	<ol style="list-style-type: none">1. Check the connections to the underwater unit.2. If the CTD package is being cast through ice, make sure the hole is clear of any ice or slush on the way out, on the way in, and that no ice is in the ductwork or tubing on the sensors.3. Make sure fresh water has been removed from conductivity sensors.
If sensors go through brash ice	Clean off with compressed air, and let warm up to melt any ice that may have gotten into the sensors, or clean out ductwork and tubing manually. NEVER stick any object into the long tubing attached to the conductivity cell. If it is clogged, remove the obstruction by blowing in the tube.
O-Ring fell off/broke	To replace, disconnect bottom lanyard and slide both lanyards through the O-ring. Bring O-ring over the top bottle stop and seat the O-ring by pressing your thumbs on one point of the O-ring, and working around. This ensures that the ring doesn't get twisted. Please see picture in Appendix I under O-Ring. The process is similar for the bottom bottle stop.
Bottles don't fire	<ol style="list-style-type: none">1. Check the triggers for salt build-up; clean with fresh water and compressed air.2. Do test fire on deck by having one person pull on the trigger (to simulate a cocked bottle) while another fires that position. Never fire a cocked bottle in the air; it can damage the bottle.3. If it still won't fire, replace the trigger.
.DAT files are empty	Have a computer technician try to recover. The file may exist somewhere.

