**Dry**

o   Unspool tether and put on a holder

o   Weight ROV on front threaded rod  **NOTE**: You need around 5 ounces (140 grams) of evenly spaced lead weights on the front

o   Plungers inserted into ROV  **NOTE:** They should be to begin with but double check they are there or your tube will flood.

o   Insert batteries (flat side of batteries goes into tube first)

o   Pull O-rings up from under electronics tube and attach them to the hooks above it to hold it in place

o   Test Connections to ROV with a PC   **NOTE:** Plug the topside Ethernet in to the PC, set the PCs Ethernet adapter IP to 192. 168. 254. 2, ROV will be at http://192.168.254.1 with ssh port 22, login rov/OpenROV

o   If connection fails, verify all PCBs are pushed together tightly

o   Use keyboard and cockpit to test motors  **NOTE:** They should sound smooth, no contact with anything (arrow keys, shift, control)

o   Test lights (I [toggle], P [increase], O [decrease], key is in cockpit)

o   Test lasers(L[toggle], key is in cockpit)

o   Test camera servo (Q [up], A [center], Z [down])

**NOTE:** Stop if you notice interference, push the PCB with one hand on each side to squish the wires more if there is a small interference.

o   Verify camera video stream  **NOTE:**  Zero depth in diagnostic panel to reset camera if no feed.

o   Check electronics tube and battery end-cap O-ring seals  **NOTE:**  Fronts of batteries tubes, both sides of electronics rube


**Wet**

o   Verify neutral buoyancy  **NOTE**: Goal is to have slight positive buoyancy

o   Drive ROV forwards and backwards   **NOTE**: Check diagnostic panel in cockpit and reverse motors one at a time as needed

o   Turn to port (left) and starboard (right)

o   Test Vertical motor

o   Turn lasers on and off

o   Turn lights on and off

o   Turn camera servo up and down, verifying on PC video stream

o   Dive to 1m and hold depth  **NOTE**: Spend the time and adjust your weighting…you will get a much better operation

o   Leak check after 1 minute in the water


**Post-dive**

o   Remove motor bells/props

o   Remove debris and anything wrapped around the motors (seaweed, etc.)

o   Rinse motors and bells/props

o   Unplug tether from topside adapter (the surface side ends of the wires will break off if they wiggle a lot in the topside adapter)


**SIGNATURE(S):** _____  **DATE:** _____  **TIME:** _____