

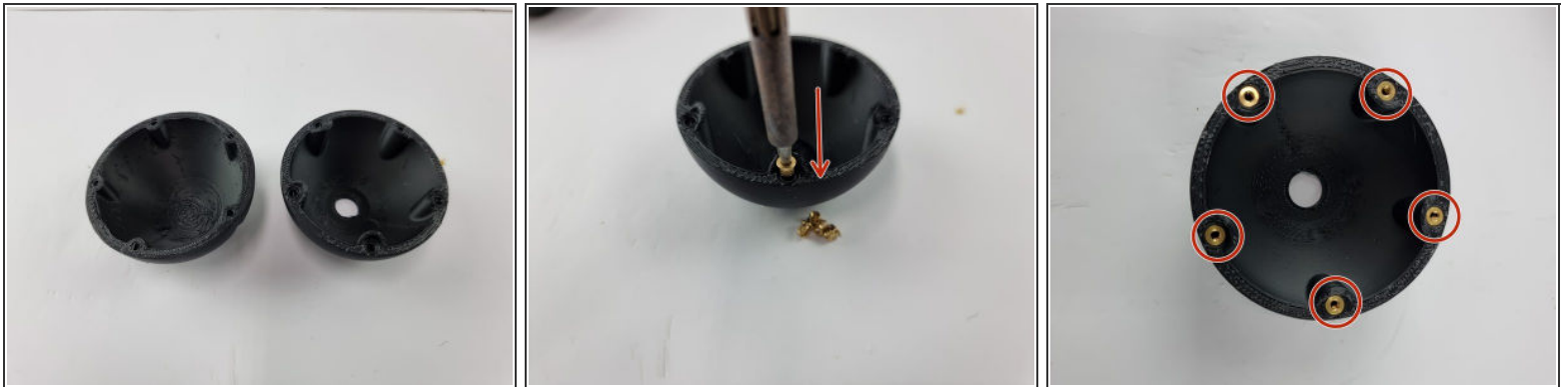


3. Buoy Installation

Written By: REA

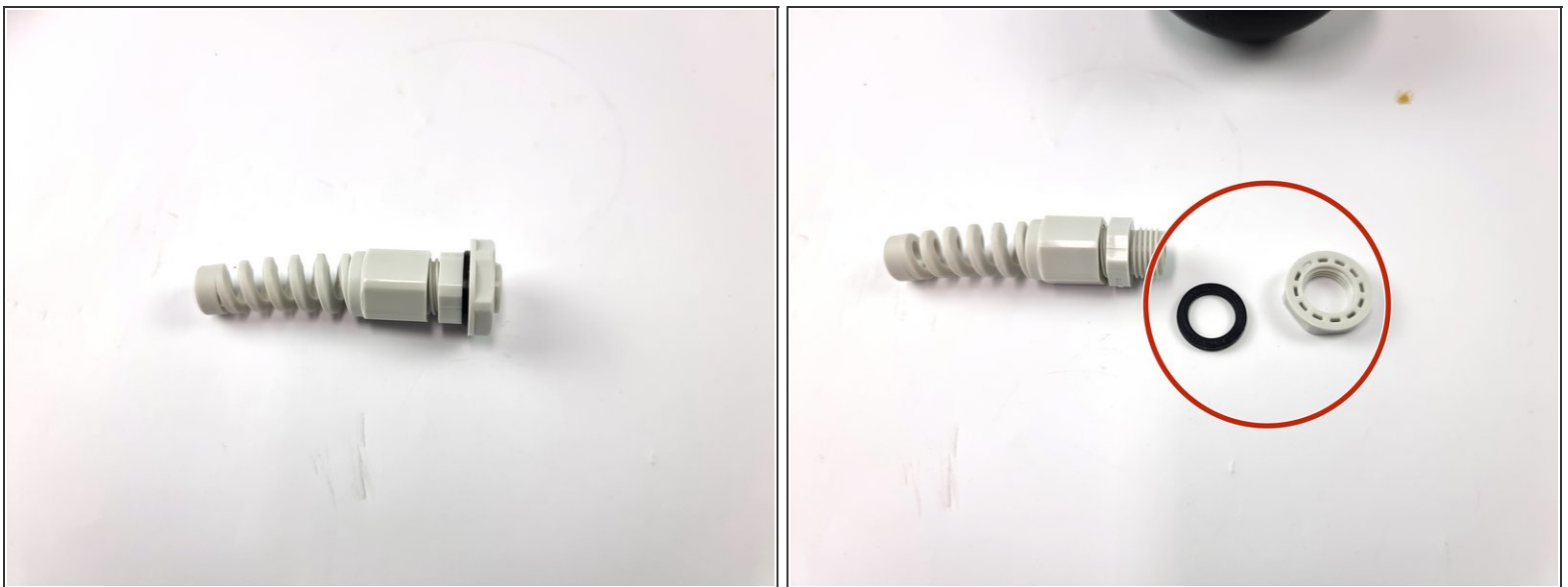


Step 1 — 3. Buoy Installation



- Grab the 2 halves of the buoy you have 3D Printed.
- Install the threaded inserts into the bottom half of the buoy.

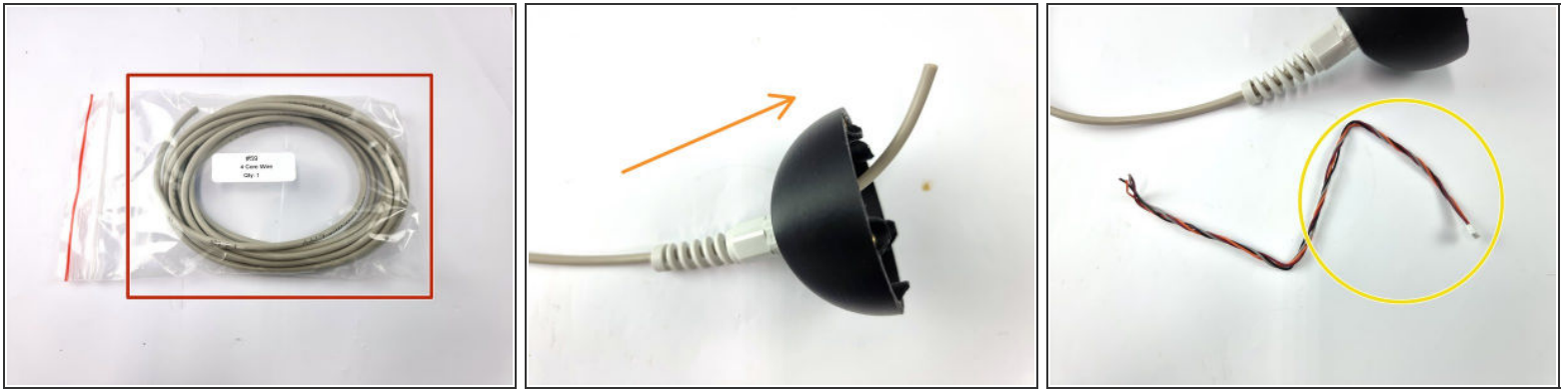
Step 2



- Unpack the supplied cable gland.
- Unscrew the nut and remove the seal.
- ⓘ Insert the cable gland into the hole of the bottom buoy. Screw the nut on to secure it.

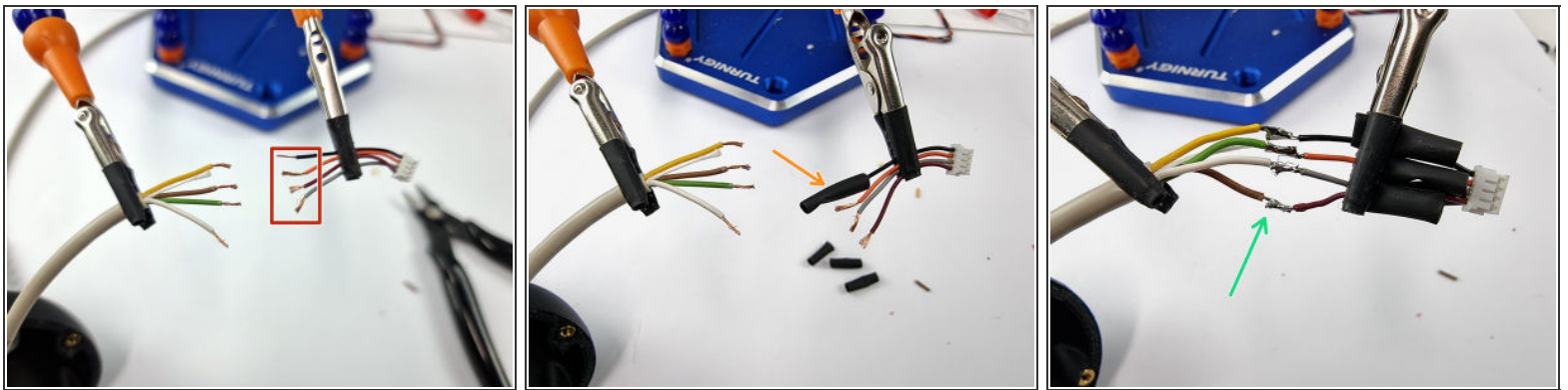
⚠ To ensure a water tight seal it is best to use silicone to seal around cable gland.

Step 3



- Find the 4 core wire supplied in the kit.
- Feed the 4 core wire through the cable gland and tighten the nut on the cable gland to seal around the wire.
- Find the left over wire from the Satellite receiver.

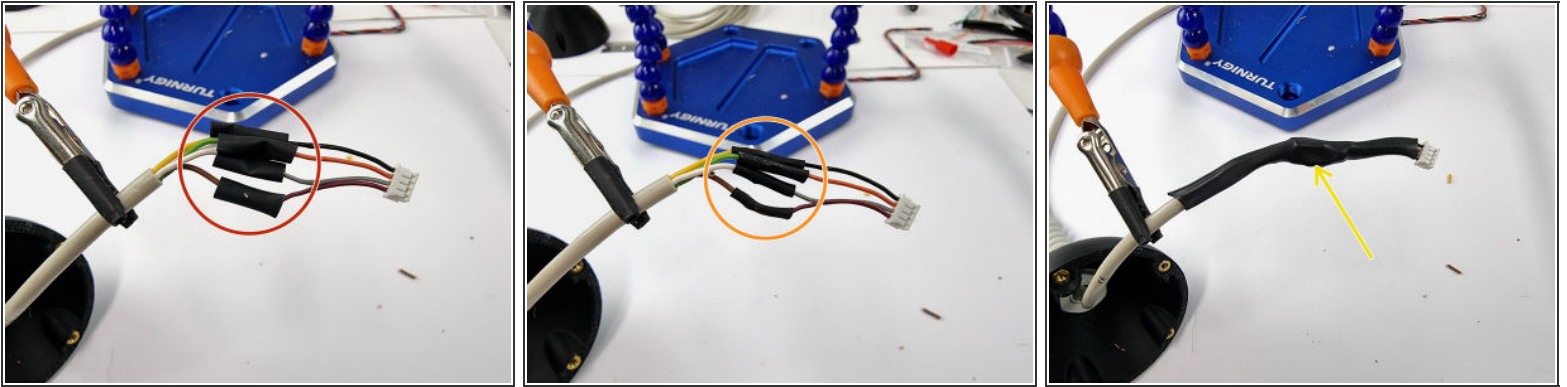
Step 4



⚠ On the end of the 4 core wire that is in the buoy, strip the outer insulation as well as the insulation from the end of each wire.

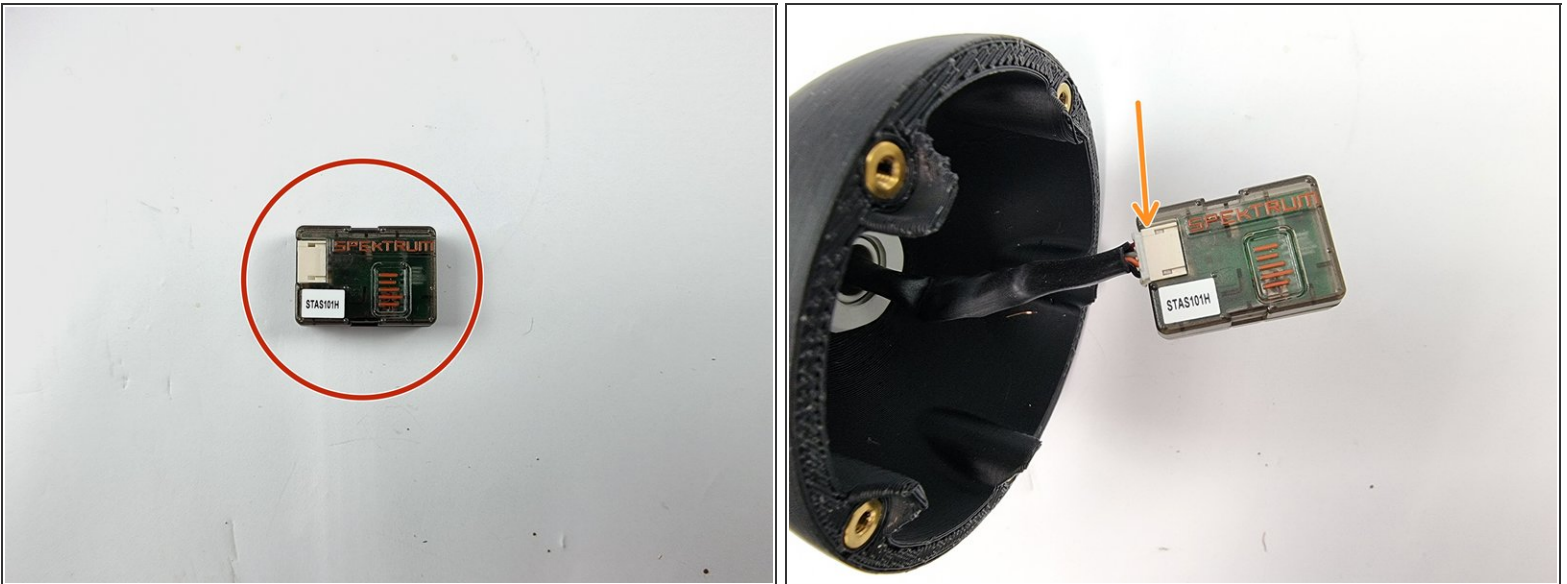
- Trim the cable that connects to the satellite receiver and strip the insulation from the end of the wires.
- Before soldering the wires together slide a strip of heat shrink onto each of the wires.
- Solder the black wire to the yellow wire, Orange wire to the green wire, grey wire to the white wire and the maroon wire to brown wire.

Step 5



- Slide the heat shrink over the soldered joints.
- Apply heat to shrink it into place protecting the joints to ensure they don't short out with each other.
- If you like you can apply a piece of heat shrink over all of the wires.

Step 6

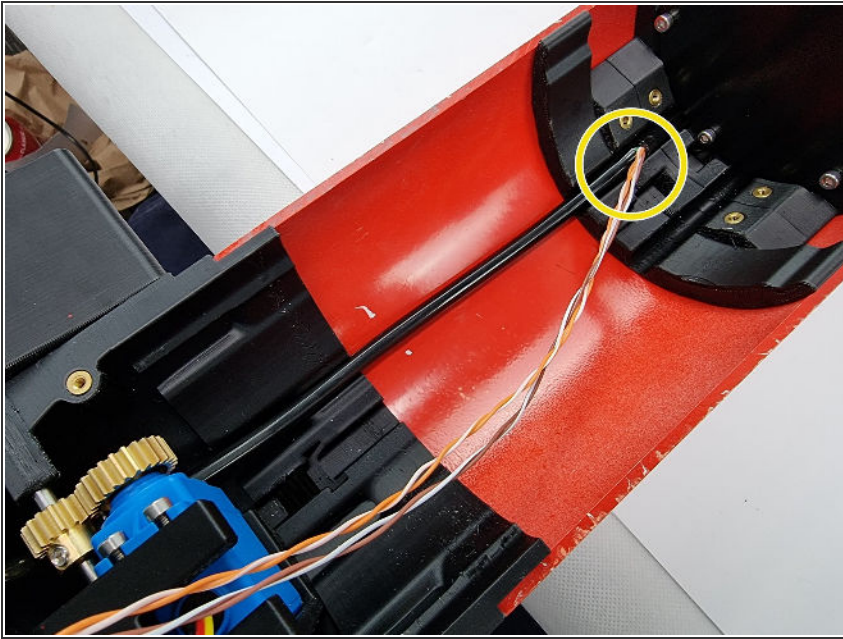


- Grab the satellite receiver to install into the buoy.
- Plug the connector into the satellite receiver.

Step 7

- Place the top of the buoy on aligning the holes with the threaded inserts in the bottom of the buoy.
- ⚠ To seal the buoy to make it waterproof you could manufacture a gasket or use silicone to seal the 2 halves together. This allows you to separate the halves if needed.
- Using the M3x12mm Socket Head Cap screws screw the 2 halves together.

Step 8



i Now to wire the 4 core wire from the satellite receiver to the remaining 4 wires from the 8 pin connector.

! Before soldering the wires together make sure you feed the 4 core wire through the hole in the sail on the top hull of the Submarine.

- Trim the wires to length and prepare them to be soldered together.
- Before soldering them together slide heat shrink over the wires as well as a section of heat shrink over all the wires.

! Solder the wires together in the following pairs. Orange to Green wire, Orange/White to White wire, Brown to Brown Wire, Brown/White to Yellow.

- Slide the heat shrink over the soldered joints and apply heat to shrink them into place.