Company Safety Review
Sequoia Marine Solutions
California State University, Fresno
Fresno, California

As seen in Figure 1 the SBS50 Anderson powerpole is within 30 cm of the fuse as required from MATE. Ruler shows that the 30 amp fuse being used for our 48 volt DC power supply is 10 cm away from the Anderson powerpole.

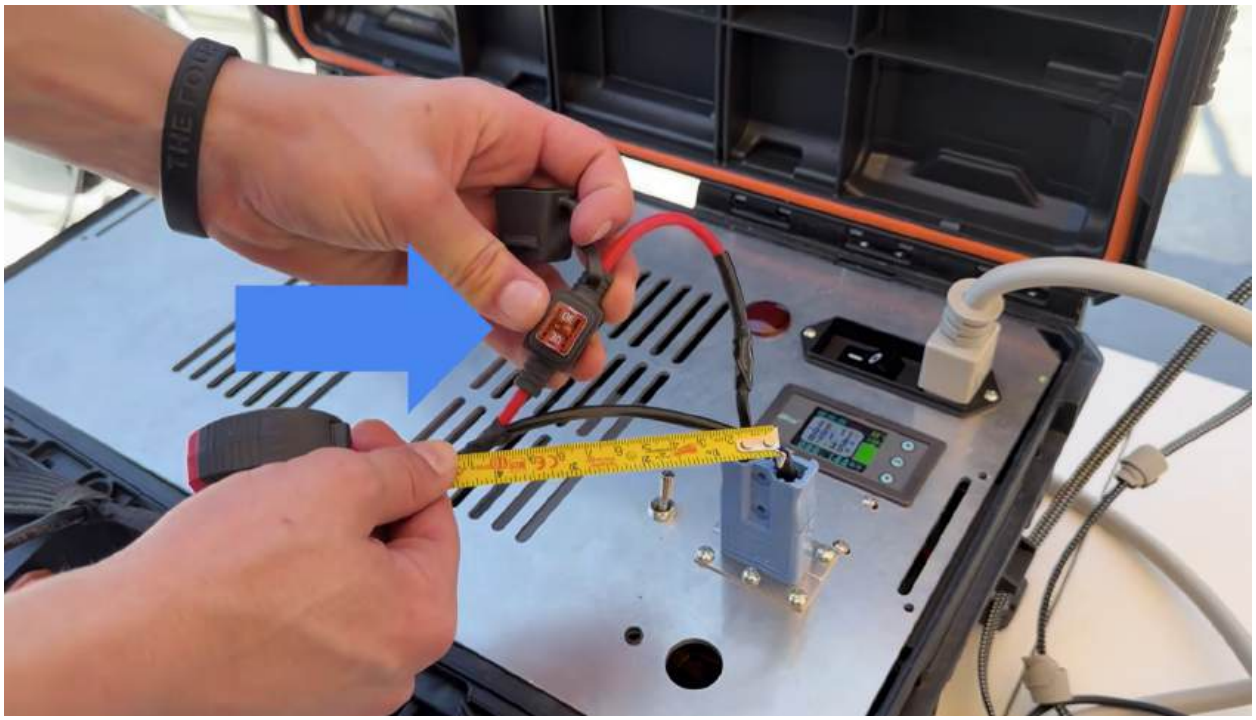


Figure 1: SBS50 Anderson powerpole within 30 cm of the fuse

The control box consists of two Thrustmaster flight sticks, an Xbox controller, and laptop for communications. An image of the control box is shown in Figure 2 verifying all components used in the control box.



Figure 2: Inside of the control box

As shown in Figure 3 strain relief from the tether connects to the control box table to prevent undue stress on the tether and connection points.



Figure 3: Strain relief where the tether connects to the system

As shown in Figure 4 strain relief is shown from the tether on the ROV. The strain relief consists of a polyethylene strap that is double layered and rated for 136 kilograms with an addition of a u-bolt for security. An adjustment has since been made on the strain relief and has shifted from the polyethylene strap to galvanized steel that will be rigidly mounted onto the frame.

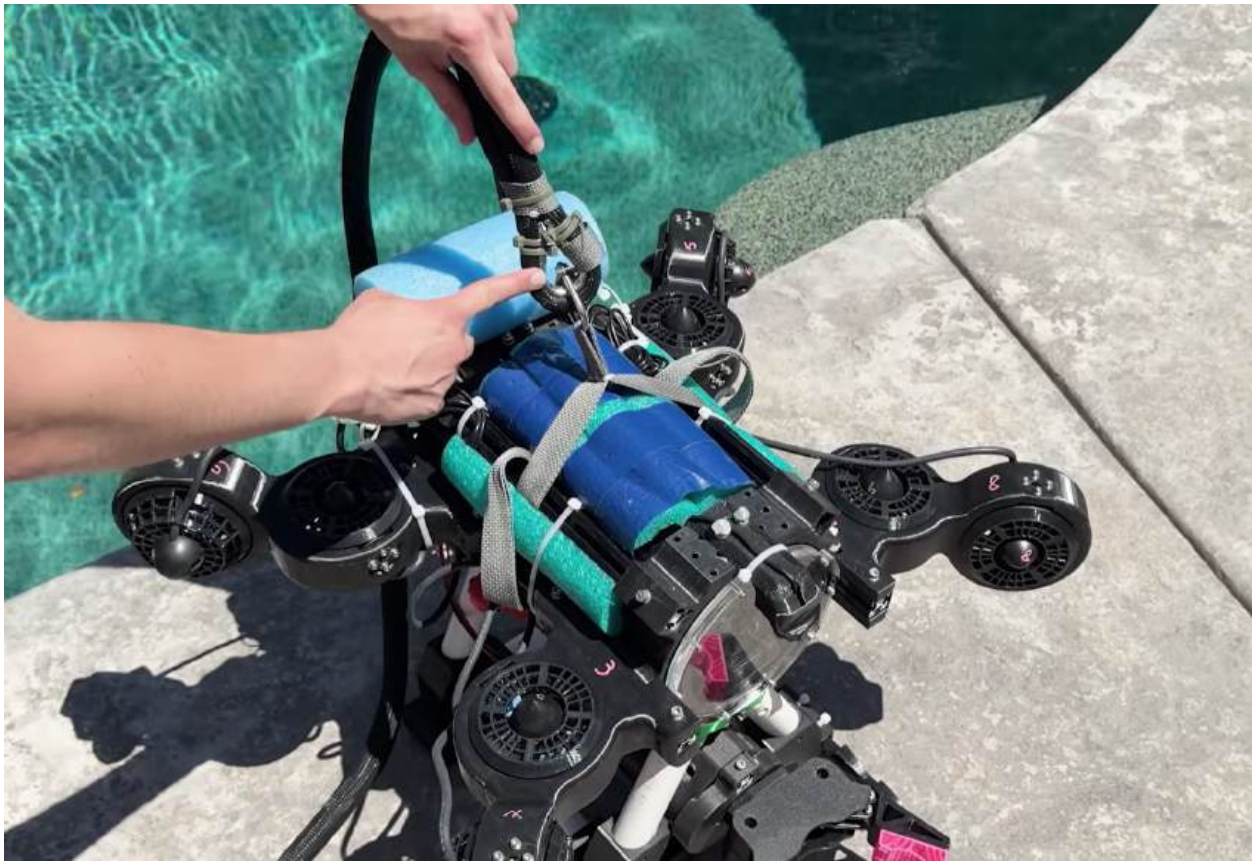


Figure 4: Strain relief where the tether connects to ROV

The image shown in Figure 5 and Figure 6 show 3D-printed propeller guards on the front and back side of the propellers. The images shown in these figures show a topside and side view of the guards.



Figure 5: Propeller guards from top side



Figure 6: Propeller guards from side

As shown in Figure 7 the ROV is completely shown to demonstrate safety compliance on propellers, strain relief on ROV, and no sharp edges being exposed.



Figure 7: The entire vehicle