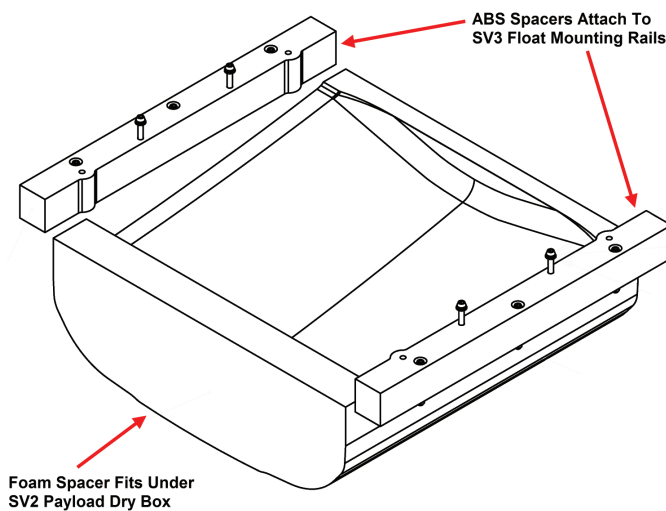


Figure 9.9. SV2 Short Aft Payload Dry Box - SV3 Mounting Kit (Liquid Robotics Part Number 05224)



Electrical Considerations

Wave Glider SV2 payloads can be adapted for use with the Wave Glider SV3.

Wave Glider SV2 payloads that run on a 13.4 volt power supply and communicate directly with the SV2 C&C can be connected to the S1, S2, and S3 Sensor ports on the SV3 CCU (the S4 connector is dedicated for use with the Weather Station). The SV3 Sensor ports support the same electrical connectors and the same payload communications protocol that is used on the SV2 Payload ports, but the Wave Glider SV3 Sensor ports are NOT identical to the SV2 Payload ports:

- There are no AUX lines on the SV3 Sensor ports, instead pins 5 and 6 in the SV3 Sensor port connectors support the multi-protocol signal capabilities that are provided by the SMC - specifically: RS-232, RS-422, and RS-485. See “[S1, S2, S3, S4 - Sensor Connectors](#)” (page 47) for more information. If you are considering adapting an SV2 payload that uses the SV2 C&C Payload connector AUX lines (pins 5 and 6), consult with the Liquid Robotics Support Organization to determine how your payload might be adapted to an SV3 electrical environment.
- The GPS baud rate on SV2 vehicles is 4800 baud. On SV3 vehicles the GPS baud rate is 9600 baud.
- The GPS report on SV2 vehicles is different than the GPS report on SV3 vehicles:
 - The order of the sentences is different.

The sentence order for SV2 is: ZDA, GGA, VTG, GST, RMC.

The the sentence order for SV3 is: RMC, VTG, GGA, GLL, GST, ZDA.
 - The SV2 GPS reports 5 sentences - the SV3 GPS reports 6 sentences.
 - The SV3 GPS does not report some of the fields in the GLL, GST, and VTG sentences that are included in the SV2 GPS report.

Sample SV2 GPS Report.