RELEASED TO PRODUCTION - DATE ***Oct 29, 2020***

Rev	Date	ECN	Description
-	09/16/2019	-	Initial Release
A	10/28/2020	14441	Added: OZ-II Configuration Pictures, Schematic, Ref. List

"The Standard of the Industry"

CUES

Document Number:

SF950-INST

Description:

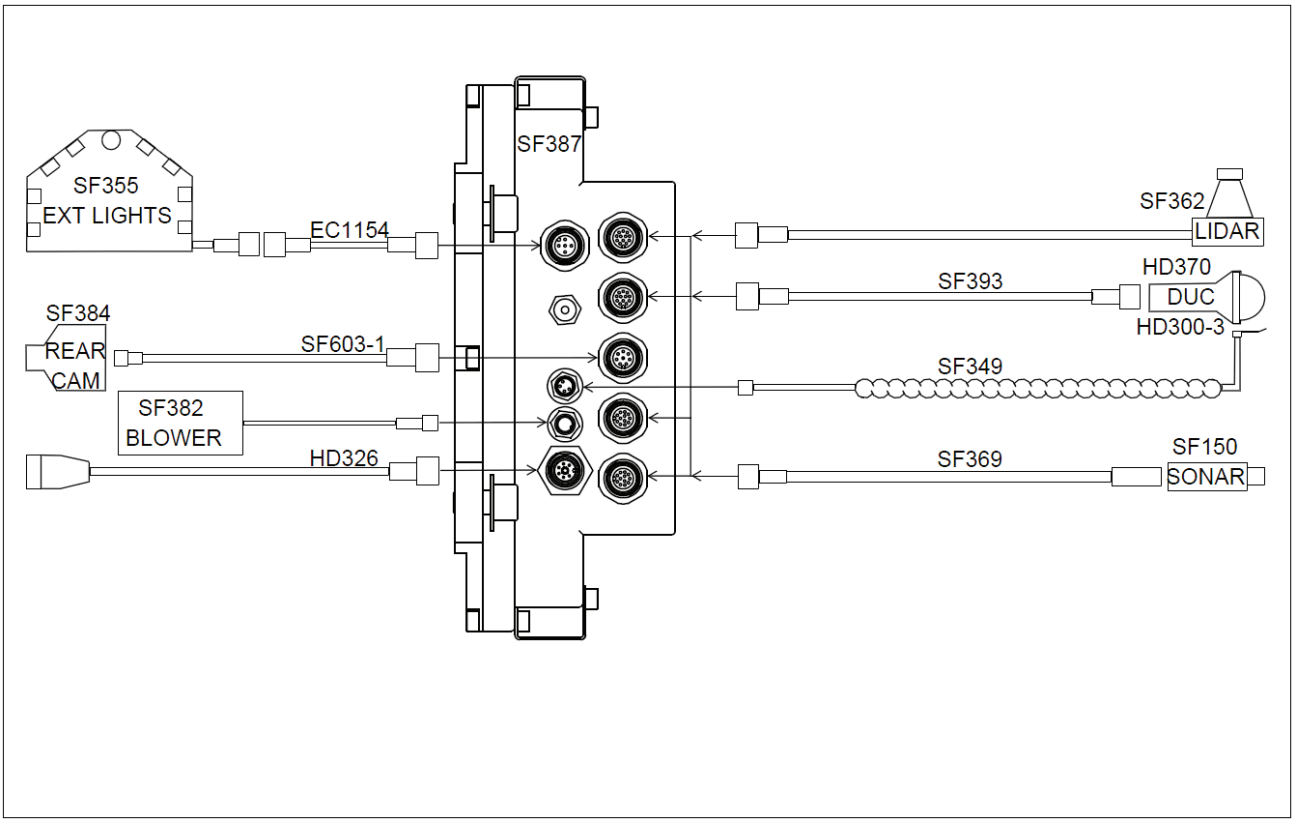
SolidFX HDPE Float

Sensor Installation Instructions

Signature CHKR: Karla Caraballo

Signature ENGR: Tony Winiewicz

Signature MFG: Kevin Johnson



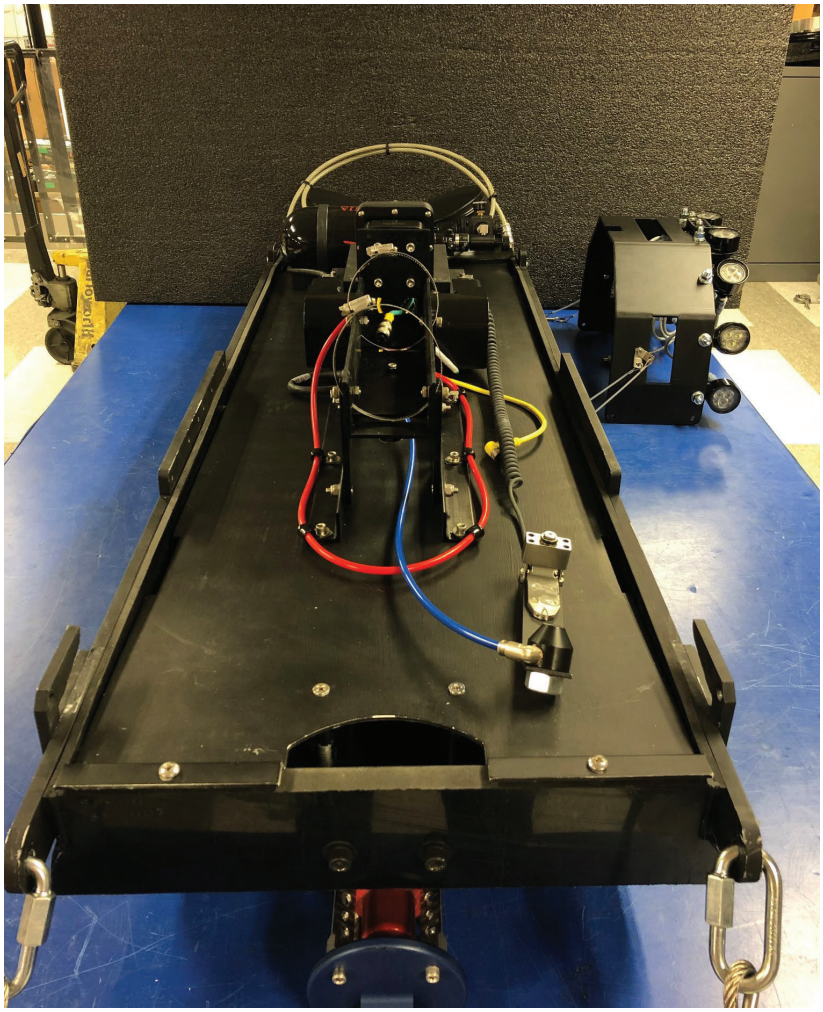
Reference List:
Frequently Lost and/or Damaged Part Numbers

Cables:

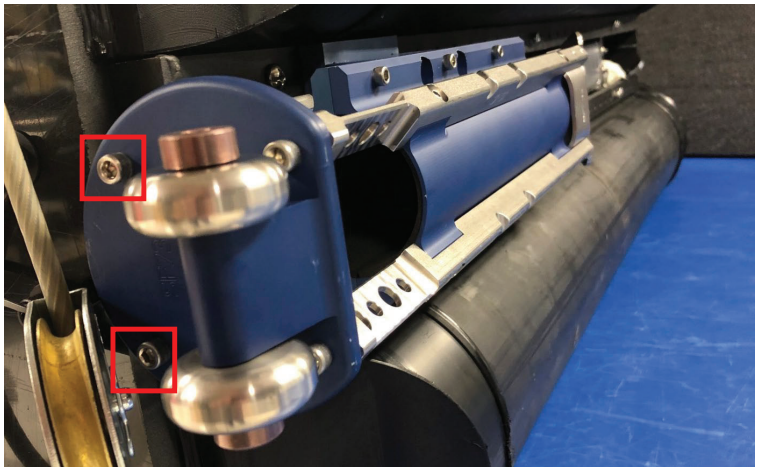
OZ-II – SF615
DUC Strobe – SF349
RVC – SF603-1
DUC – SF393
Sonar – SF369
HD Adapter Cable - HD326
External Light Extension – EC1154
External Light Daisy Chain Cable – EC2360

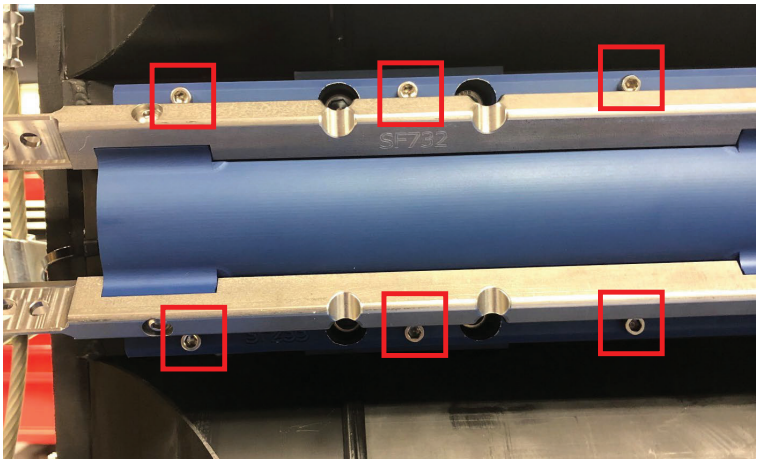
Replacement Parts:

Stem Plug – HW4436
90° PTC Fitting – HW4124
4 Pin Dust Cap (Male) – EC2624
4 Pin Dust Cap (Female) – EC2625
7 Pin Dust Cap (Female) – EC2626
12 Pin Dust Cap (Male) – EC431
Black Tubing – CS633
Blue Tubing – CS634
Red Tubing – CS635
External LED Light – SF184

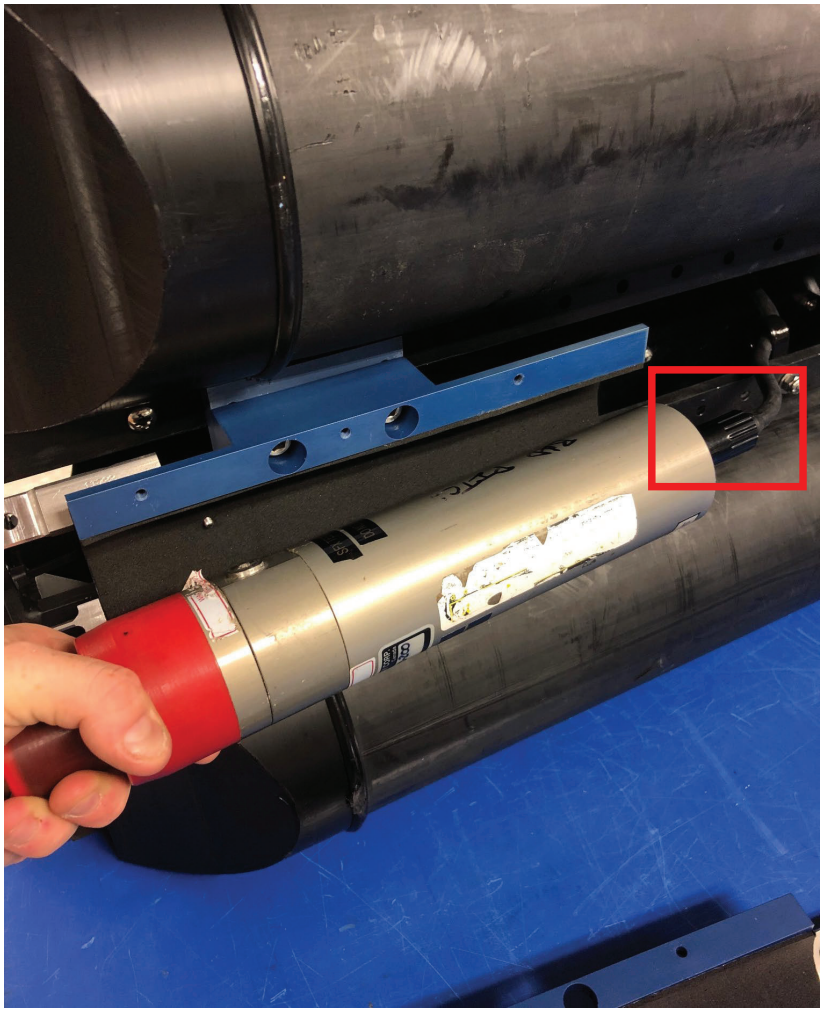


- Unplug the light array.
- Remove the light array and the outriggers from the float.

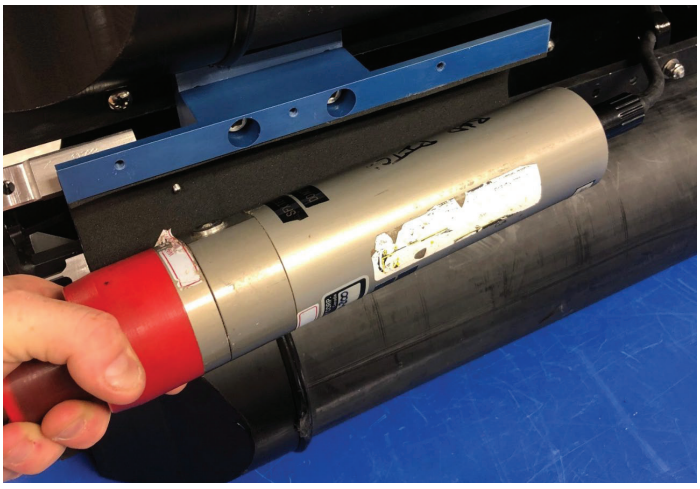




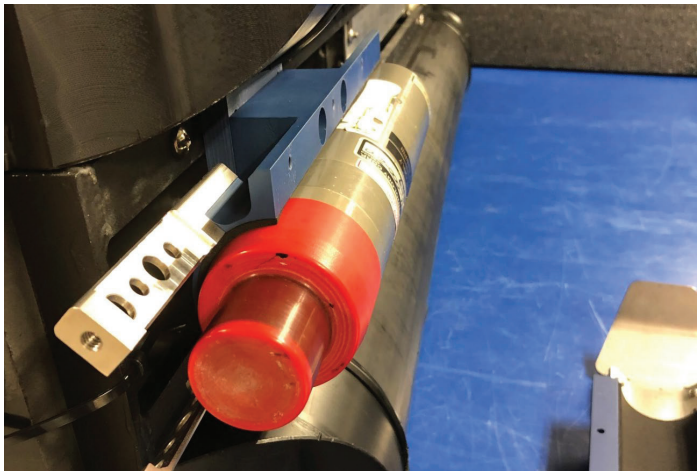
- Carefully flip float over on one side.
- Remove the 8 screws shown.

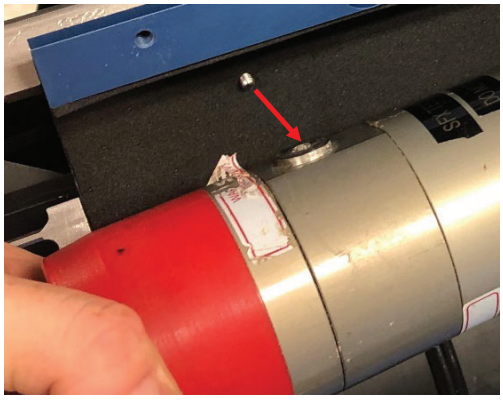


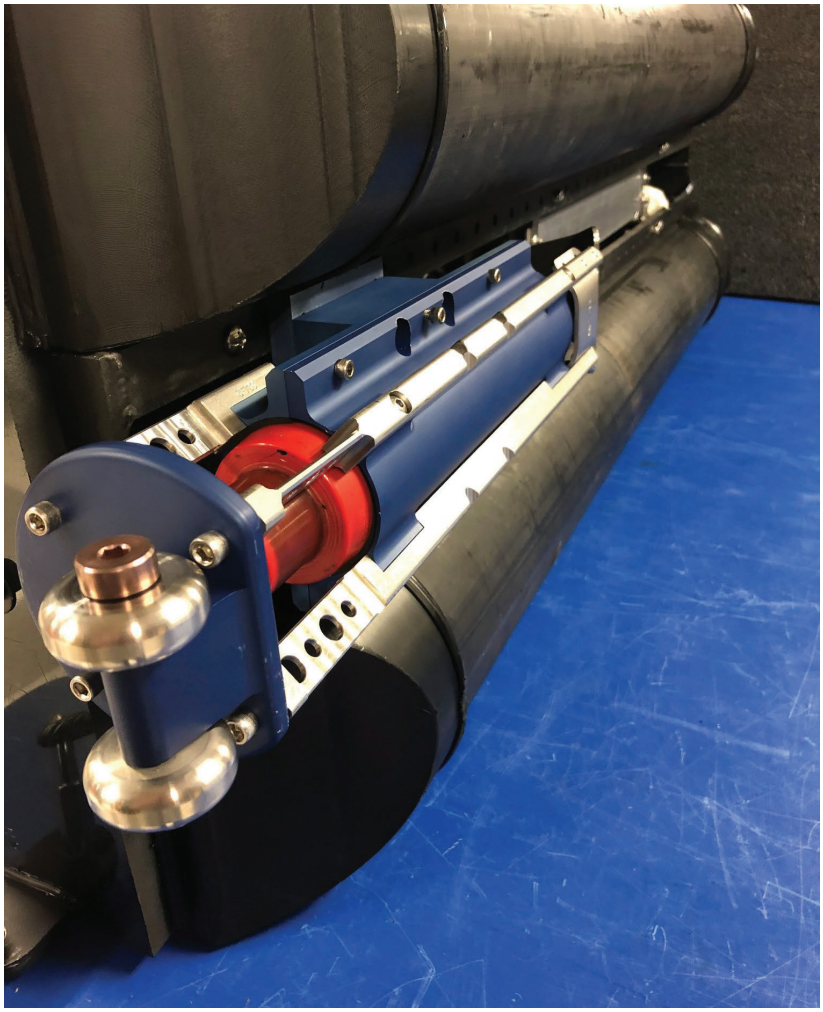
- Note: When plugging in sensors, match the pin positions of the mating connectors.
- Plug the sonar into the SF369 cable.
- Once plugged in, slide cable sleeve up to the mated connector on the back end of the sonar and thread until tight.



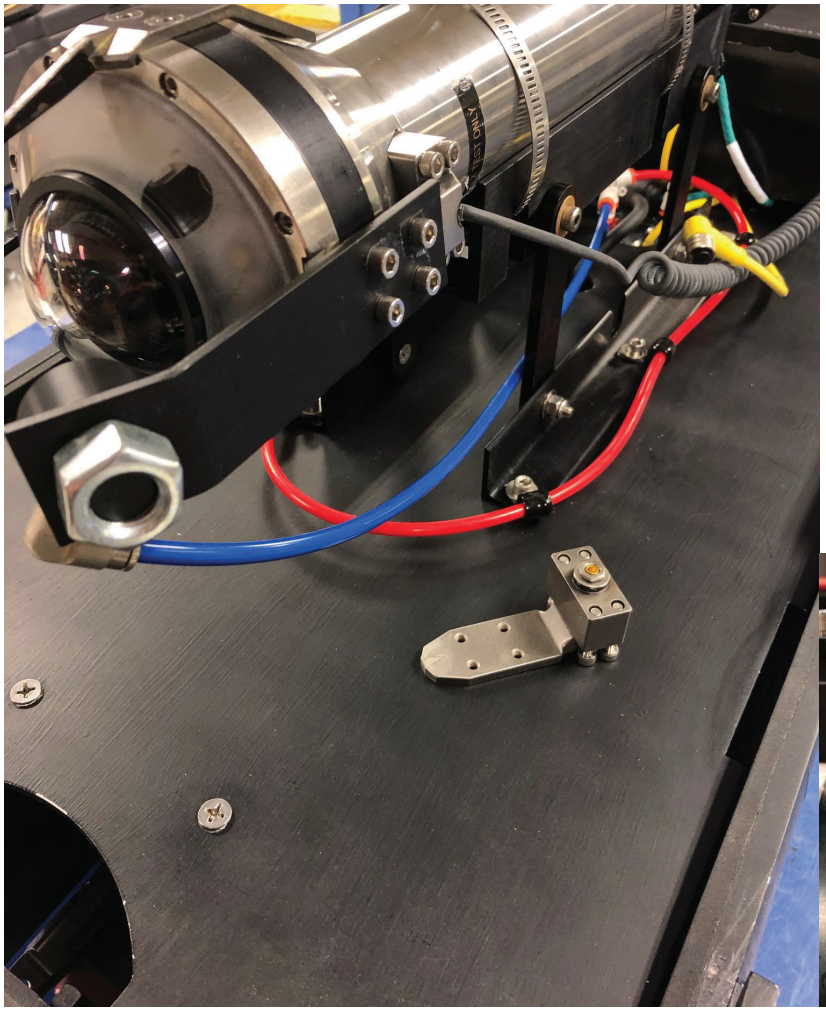
- Align pin with alignment hole on the sonar as shown (below).
- Note: the sonar should not be able to slide forward or backward.



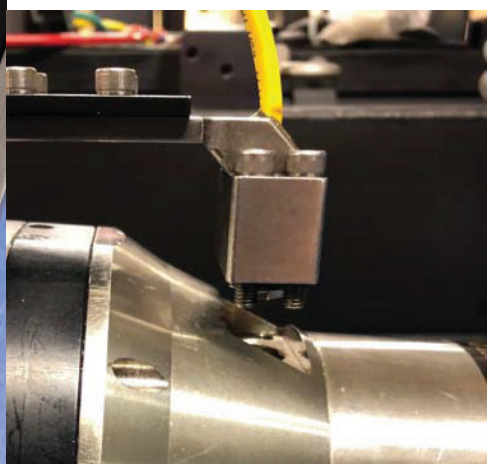




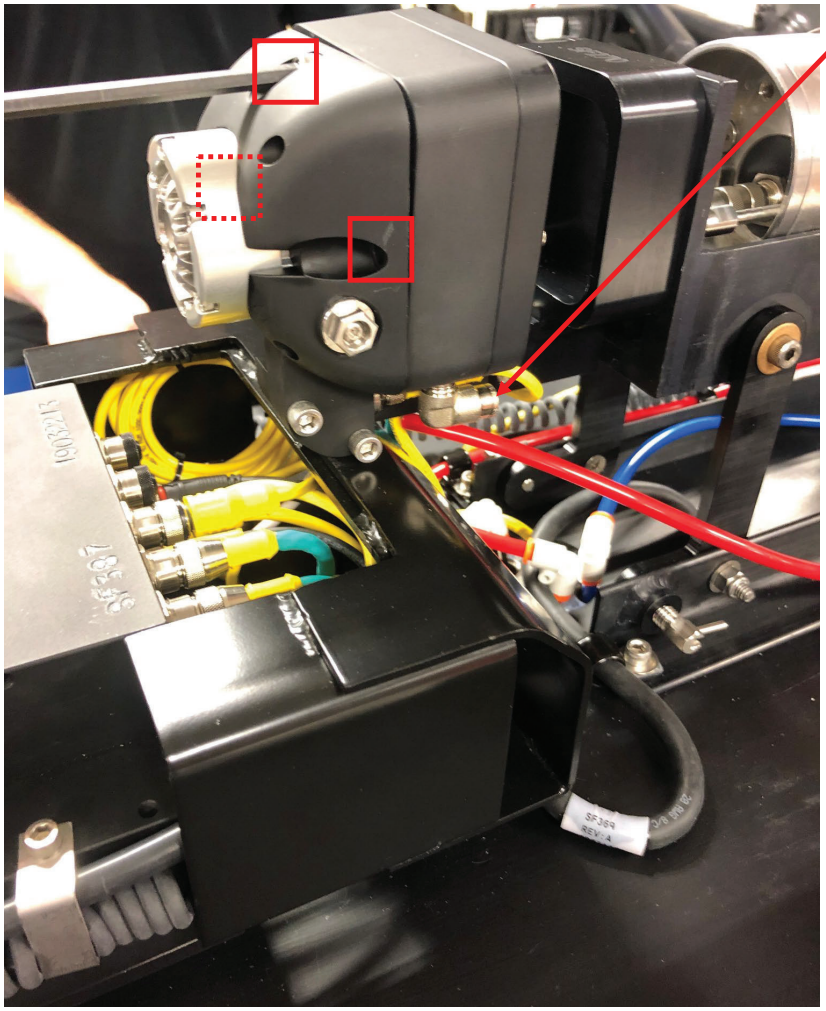
- Put the sonar guard back together using the 8 screws that were previously removed.
- Return the float to the operating position.



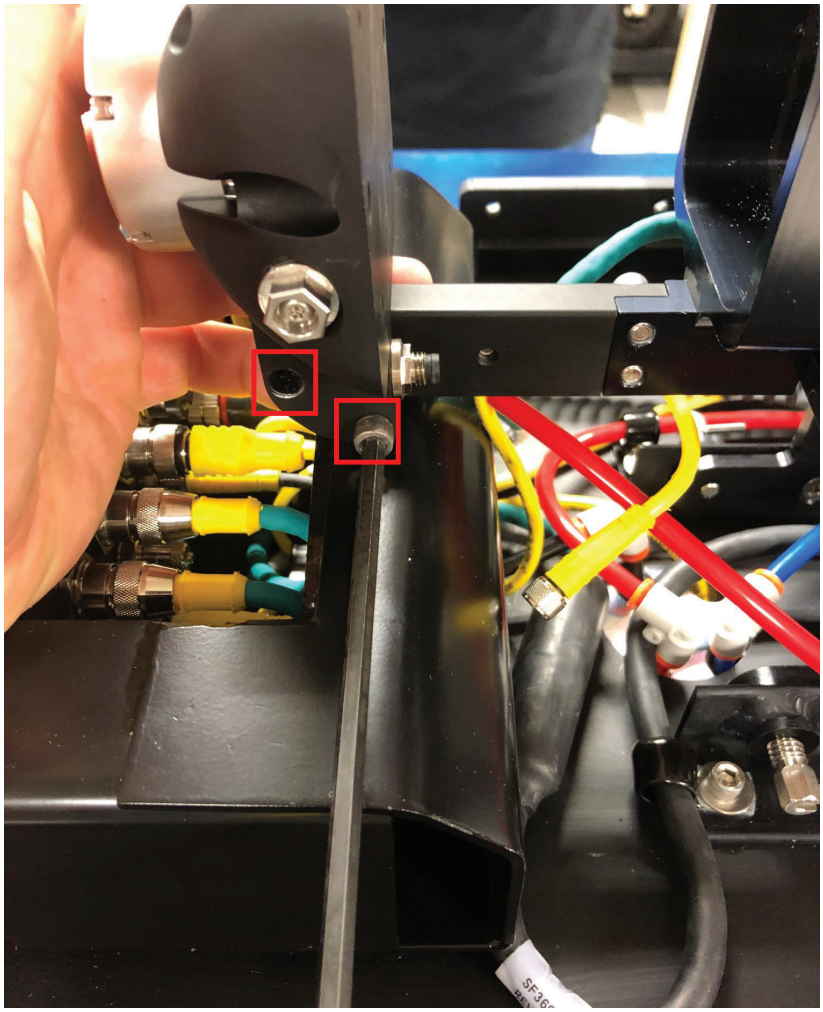
- Slide the DUC camera through the clamps on the lift.
- Remove the bottom skid plate/fork from the DUC, attach SF396 to SF349, and attach the assembly to the DUC.



- Note: When plugging in sensors, match the notch positions of the mating connectors.
- Plug the 8 pin connector end of SF393 into the DUC.
- Tighten camera clamps to maintain mounting position.
- Retain the skid plate/fork that was removed for when pneumatics are not used.

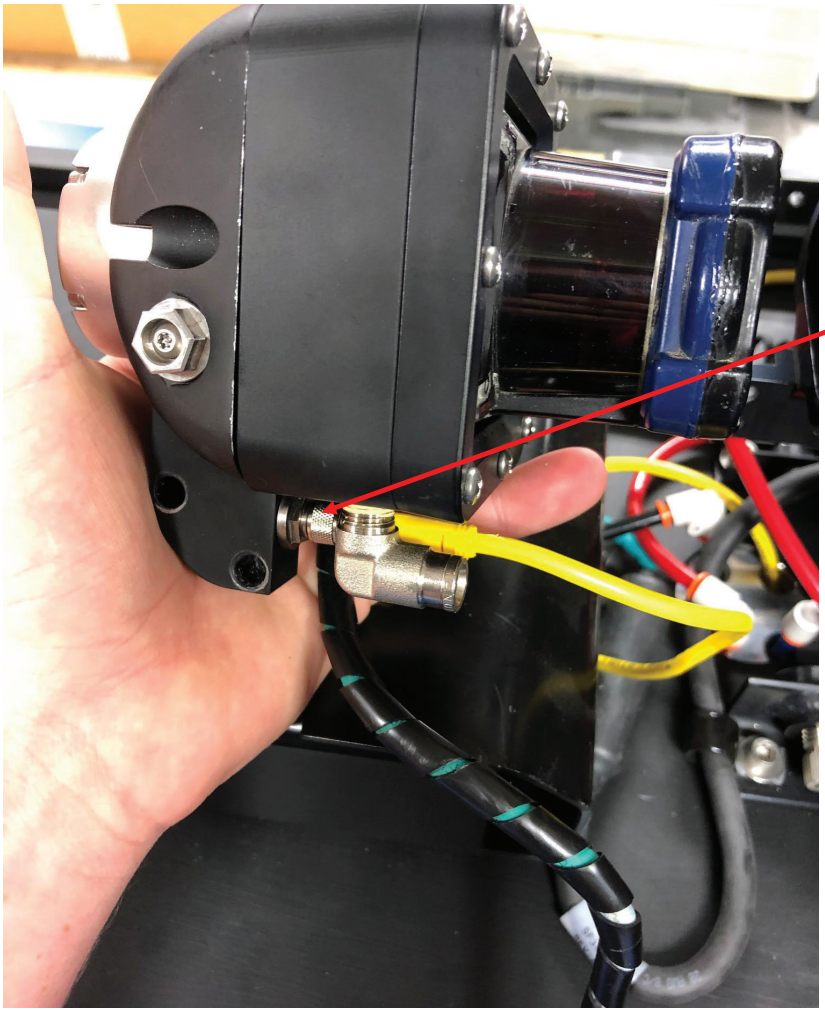


- Unplug the red tubing from the PTC fitting on the LiDAR blow off assembly.
- Remove and retain the 3 screws shown to remove the blow off assembly.

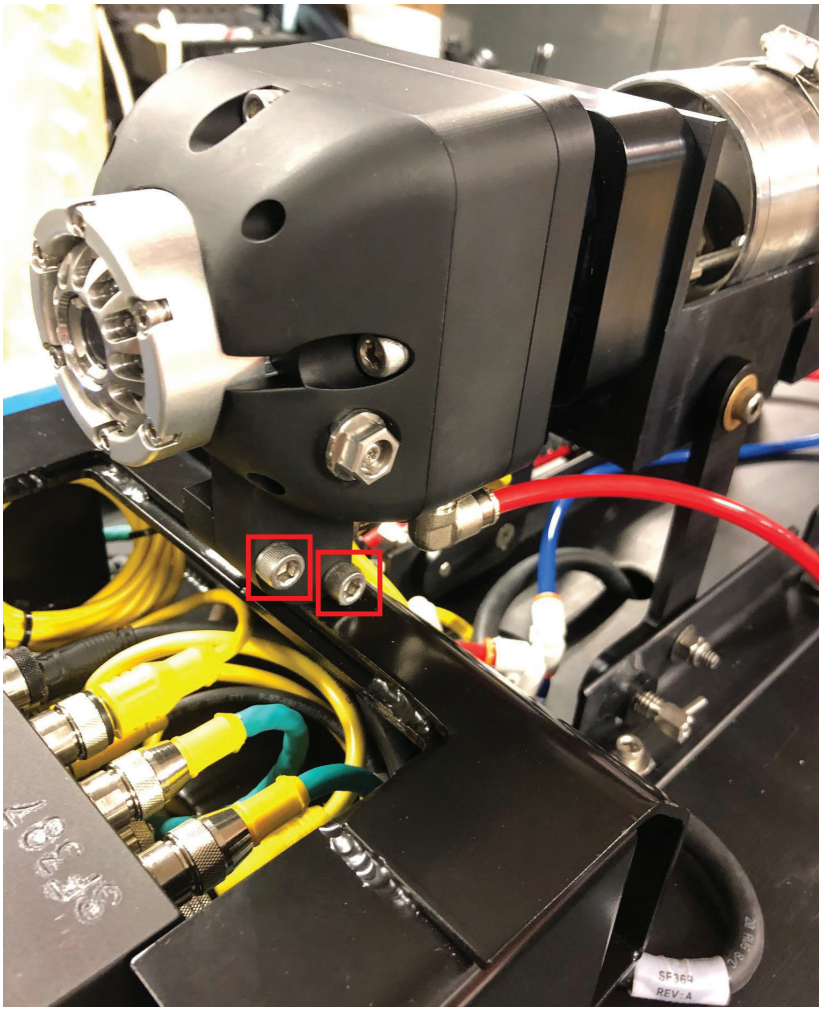


- Unplug the 4 pin end of SF603-1 from the Rear View Camera.
- Remove and retain the 2 screws shown to remove the RVC.

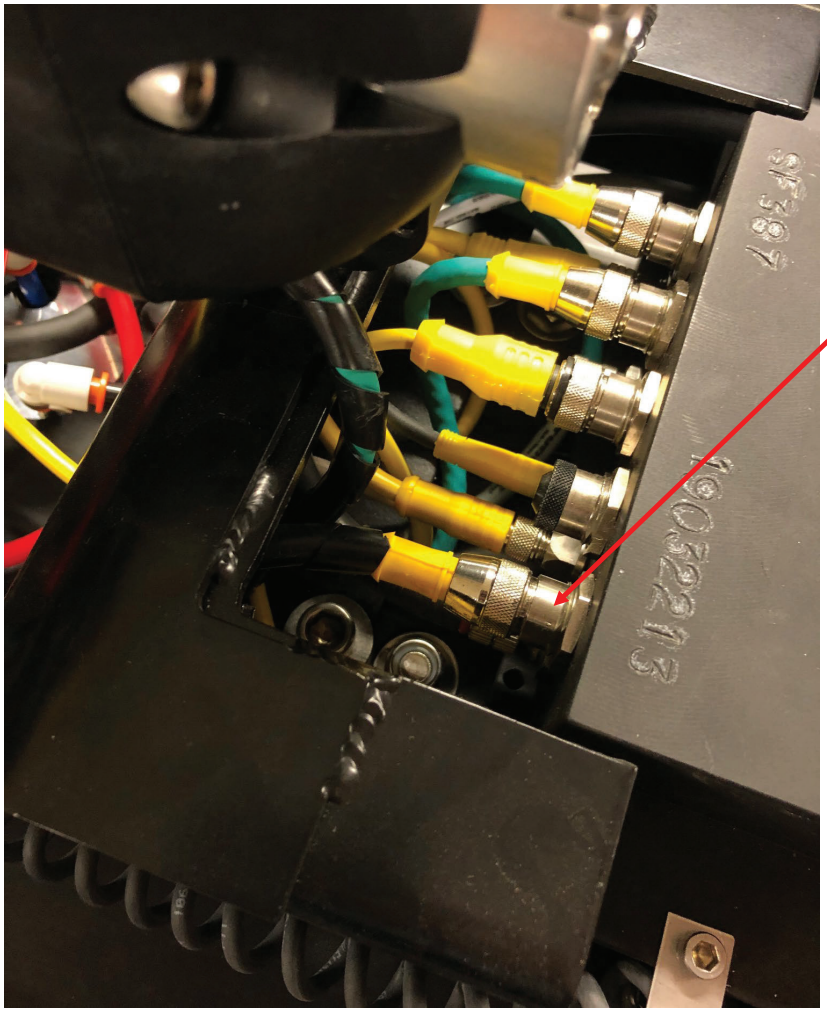
- Install the LiDAR onto the back of the RVC with the four M3 screws that are bagged and tagged with the assembly.



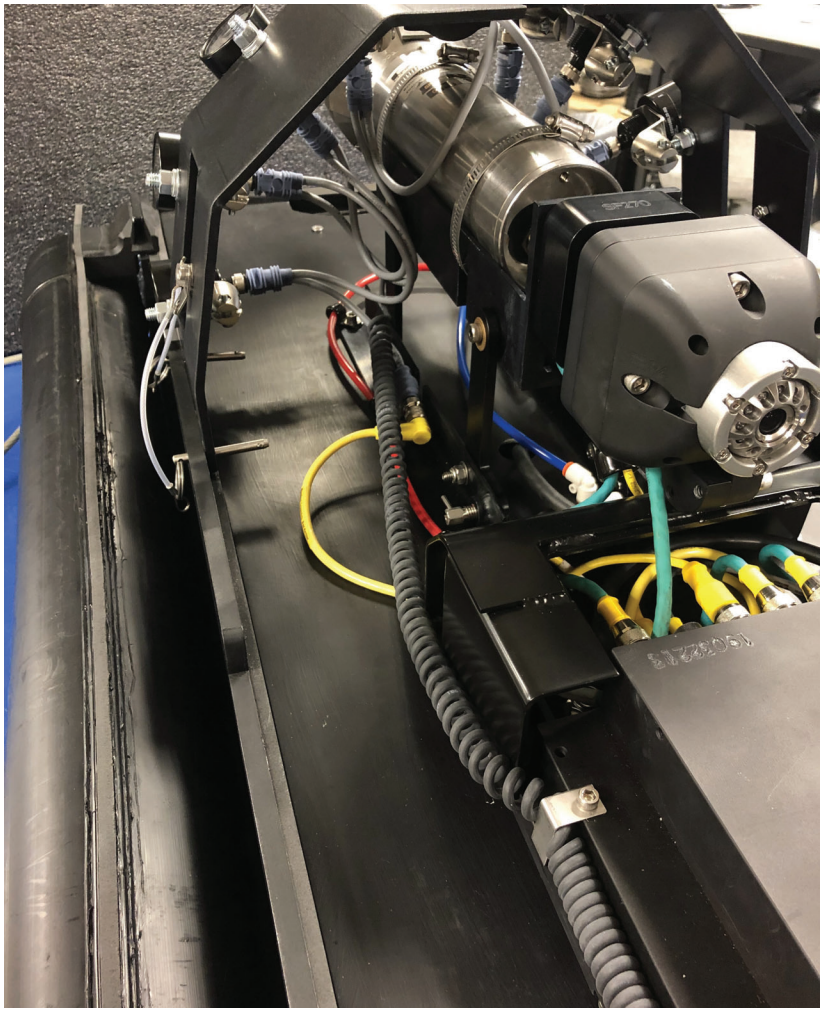
- Note: When plugging in sensors, match the notch positions of the mating connectors.
- Reinstall the 4-pin connector
- Reinstall the LiDAR blow off assembly with the 3 screws that were used to remove it.



- Reinstall the RVC/LiDAR assembly using the 2 screws that were used to remove the RVC.
- Insert the red tubing back into the PTC fitting on the LiDAR blow off.

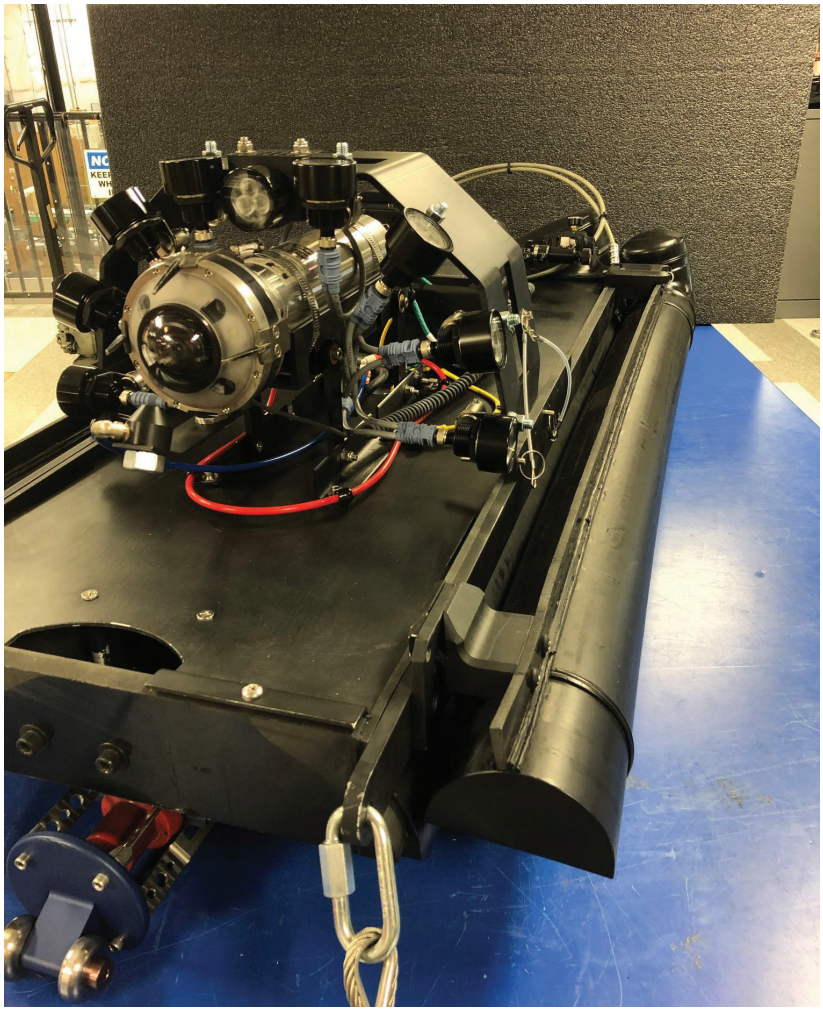


- Note: When plugging in sensors, match the notch positions of the mating connectors.
- Remove the dust cap from a 12 pin receptacle and retain for shipping/when port is not in use.
- Feed the LiDAR cable into the guard and plug in the LiDAR.



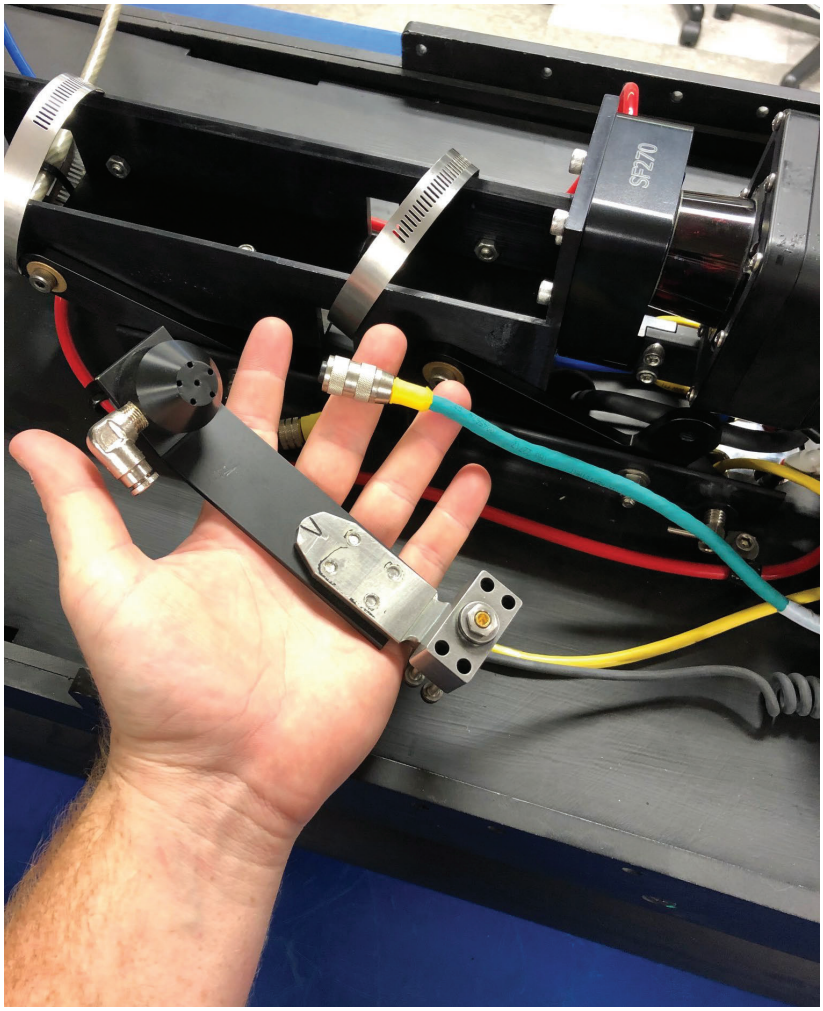
- Note: When plugging in sensors, match the notch positions of the mating connectors.
- Reinstall the light array.
- Plug the light array cable (EC2360) into the 5-pin extension cable (EC1154).
- Reattach the outriggers.

- *View of complete sensor installation.*



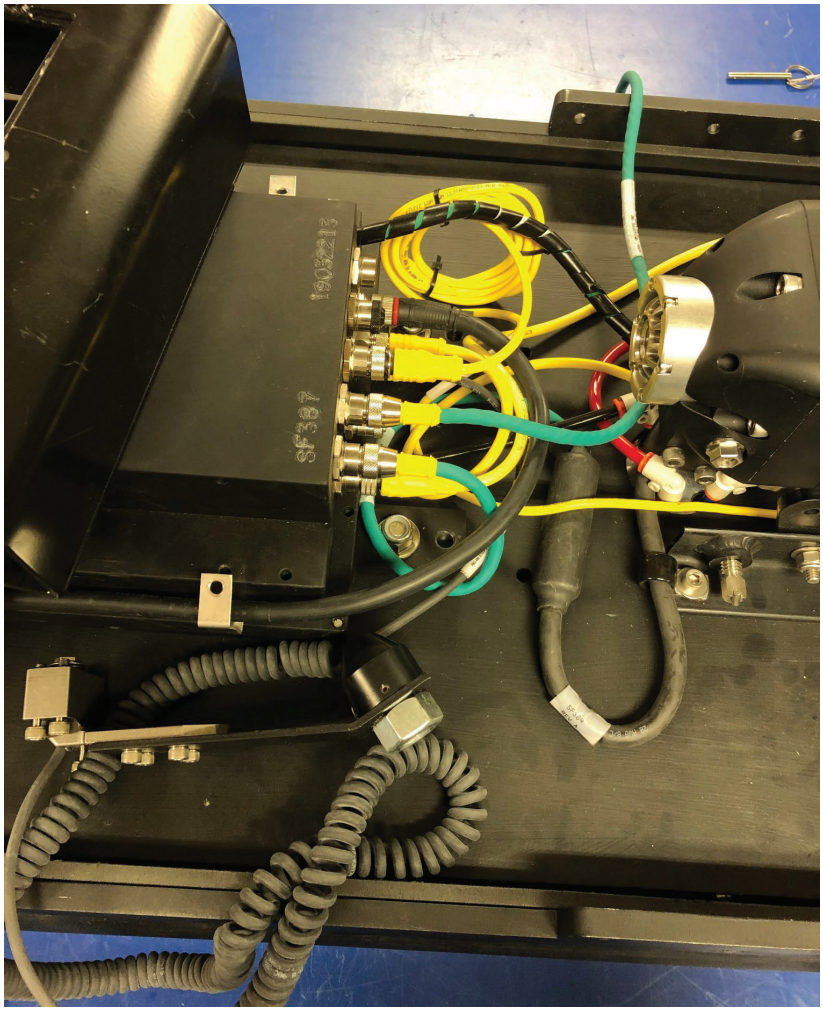
- *View of complete sensor installation.*

OZ-II Configuration

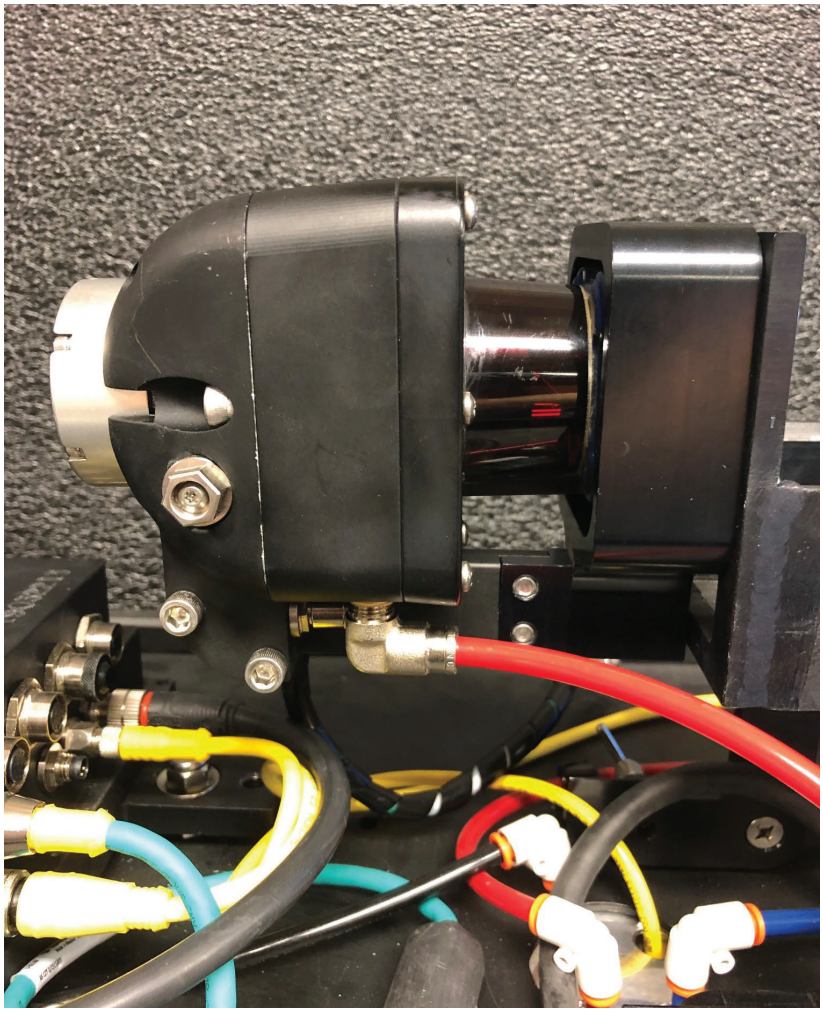


- For the OZ-II configuration, the DUC camera should be removed and all cables that were plugged into the DUC should be removed.

- Remove the cable guard from the electronics box.
- Unplug the LiDAR.
- Remove the top 4 screws from the cable retaining clips and loosen the bottom 4.
- Remove the SF349 (coiled cable) from the cable retaining clips.

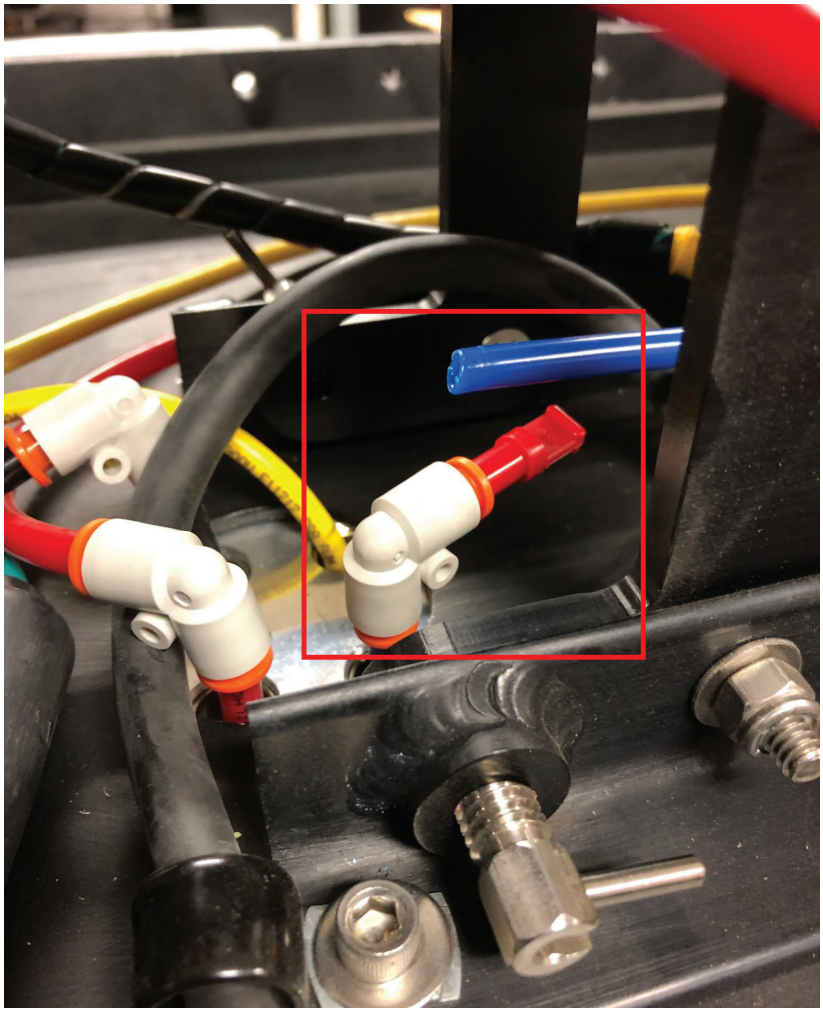


- Unplug the strobe sync, rear view camera, and DUC cables from the electronics box. Save these for standard DUC configuration.

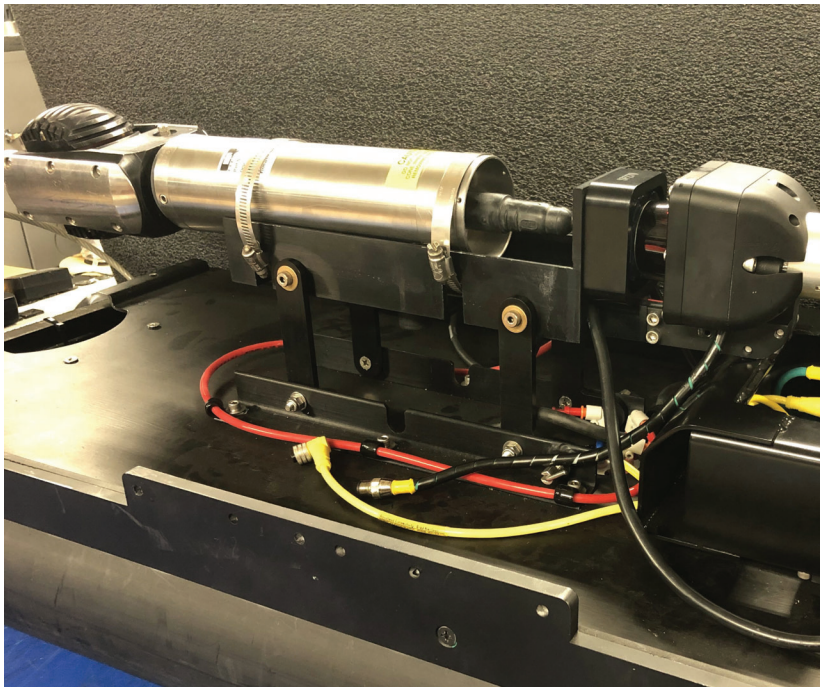


- Remove the red tubing from the push-to-connect fitting on the LiDAR guard.
- Disassemble the LiDAR guard to remove the other end of the rear view camera cable.
- Apply the dust cap to the receptacle.
- Reassemble and install the LiDAR guard and reinstall the red tubing.

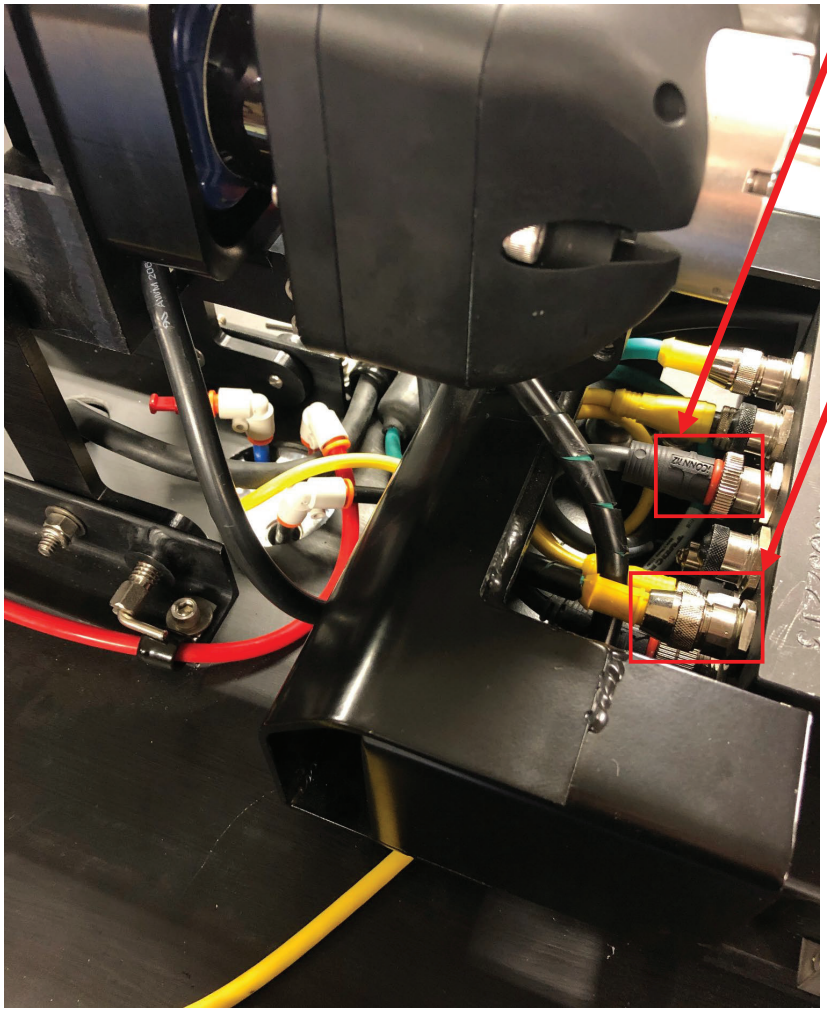
- Apply dust caps to the receptacles that the strobe sync and DUC camera cable were plugged into.



- Unplug the blue pneumatic tubing from the PTC fitting and replace it with a stem plug (HW4436).
- Retain blue tubing for standard DUC configuration.

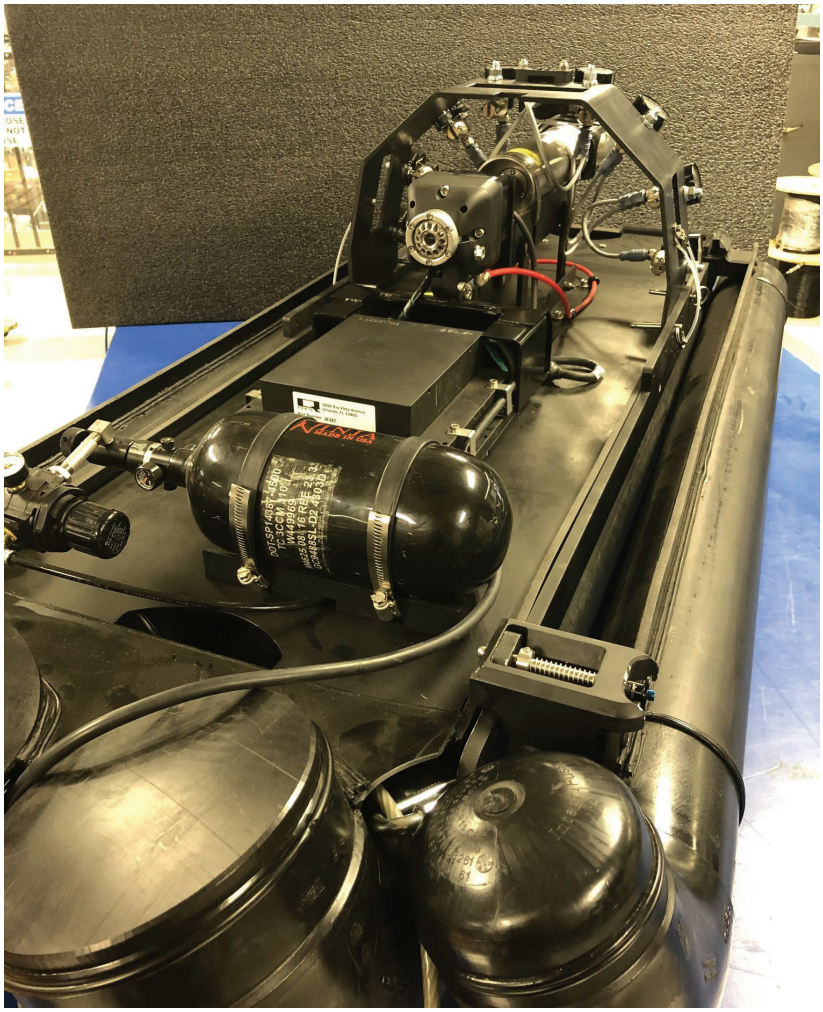


- Plug the 5-pin end of the OZ-II cable (SF615) into the back of the OZ-II.
- While routing the cable and camera through the two hose clamps, route the other end of the OZ-II cable through the cutout near the back of the lift.
- Tighten the hose clamps to secure the camera.
- Get the SF387 electronics box guard back in place but <u>do not tighten it down yet.</u>

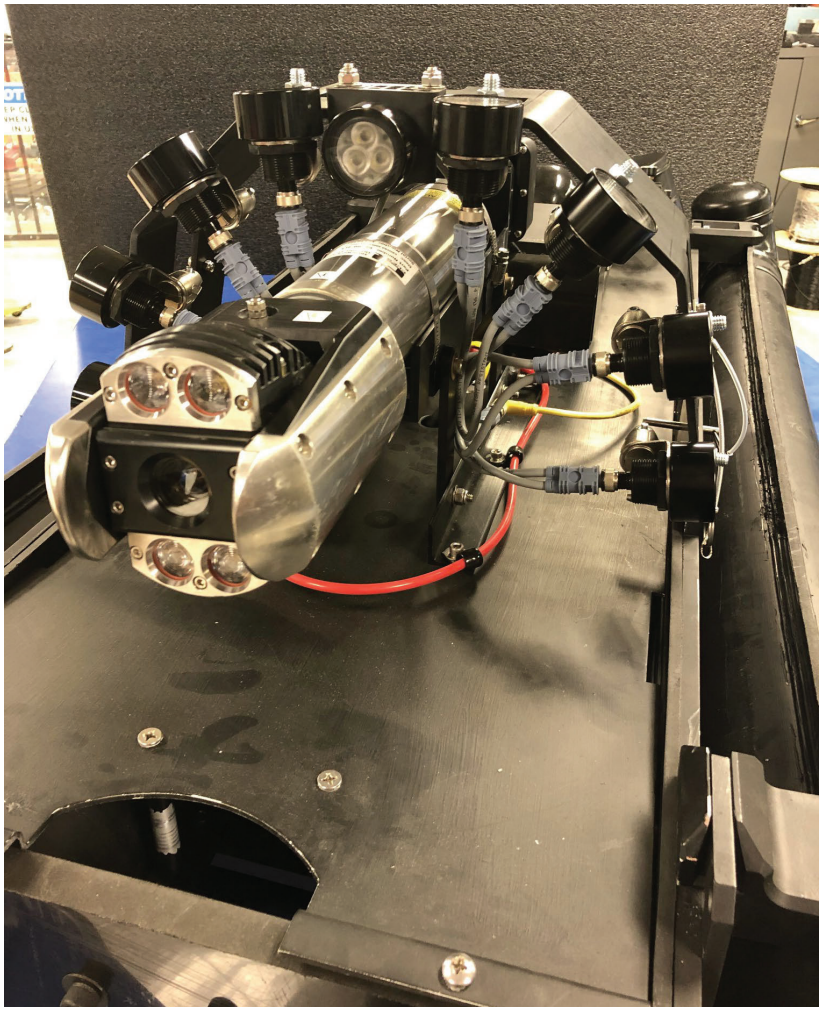


- Route the 8-pin end of the OZ-II cable under the cable guard and plug it into the 8-pin receptacle.
- Route the LiDAR cable over the cable guard and plug it into the remaining 12-pin receptacle.

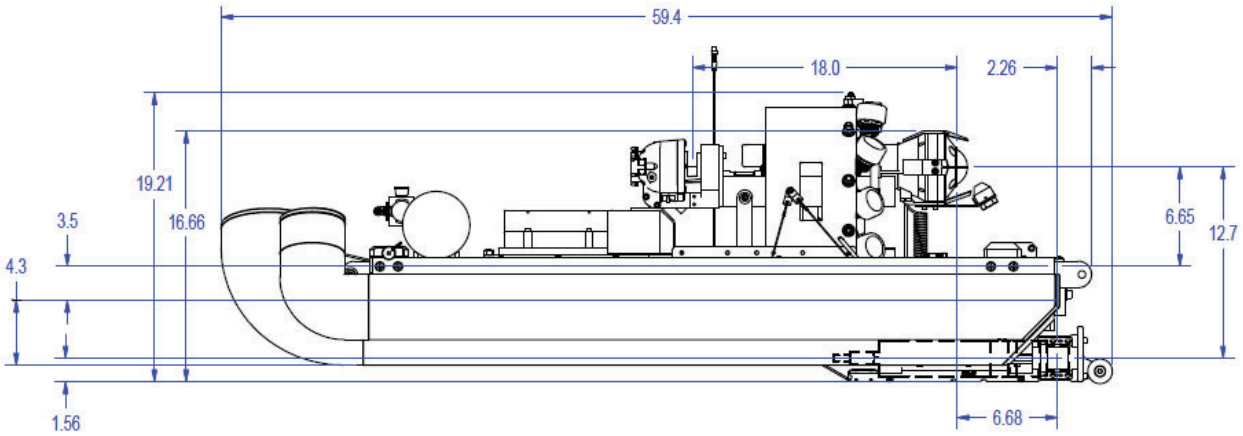
- Tighten down the cable guard with the previously removed hardware.
- Reinstall the top set of 4 screws for the cable retaining clips on the sides of the electronics box and tighten the bottom set.



- *View of complete OZ-II configuration.*



- *View of complete OZ-II configuration.*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18.0
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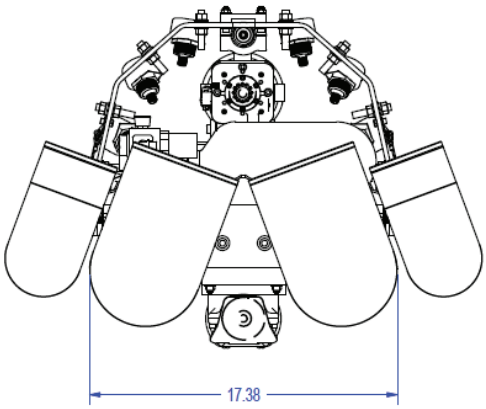
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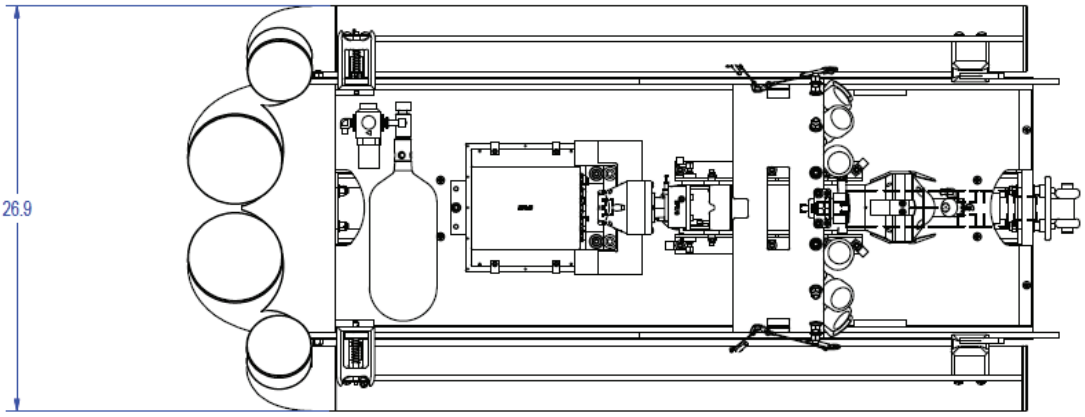
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