

# Replacing the Up Trunk

The Up Trunk is a wiring bundle that connects the BCM to numerous sensors, cameras and indicators throughout the robot.

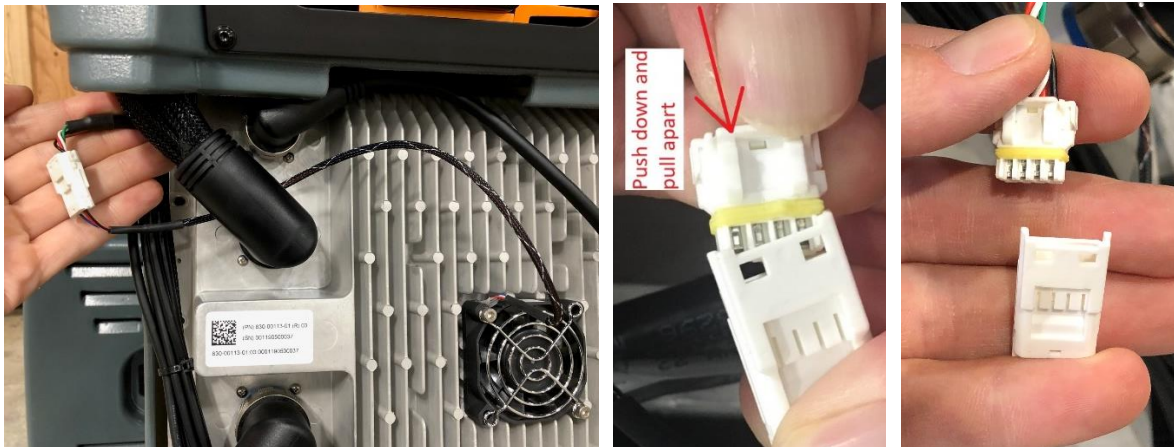


To replace this component, begin by removing the front plastic shield (5 mm) and the screws that hold the control panel (2 mm) in place.





Disconnect the BCM fan power connector



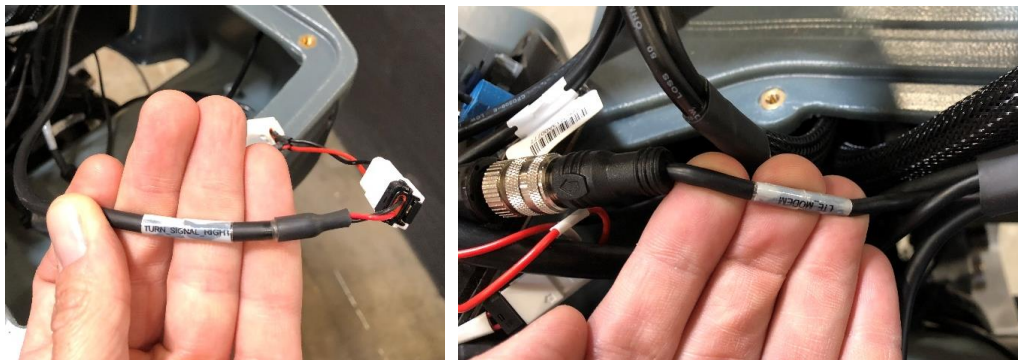
The cables are grouped into three bundles. We will trace each bundle and where the cables connect.



Unscrew the BCM interface cable and bring it up and out of the top, where the control panel resides.



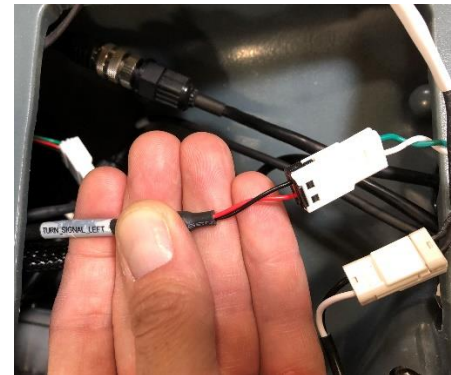
Turn Signal Right, LTE Modem



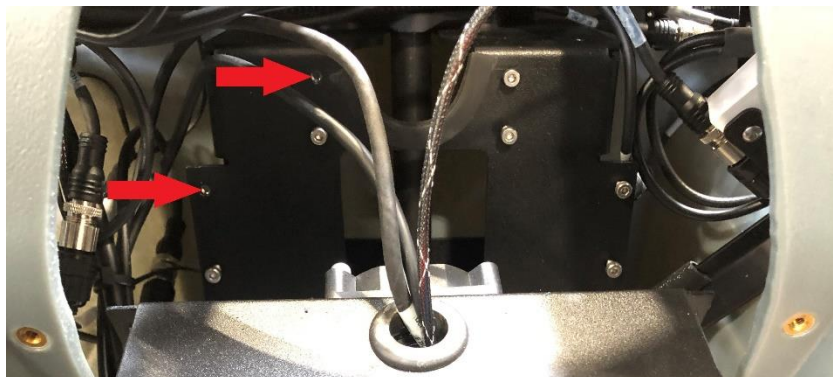
CAM RIGHT USB, Side Right 2D Camera



Depth Left ETH, Side Left 2D Camera, Turn Signal Left



The last bundle has connections for the Slanted LIDAR, Front 2D camera and Front IFM. The slanted LIDAR and Front IFM are both held in place by four screws at the corners. Only the **upper left** screw must be removed, while the rest only are required to be loosened.





Remove the slanted LIDAR, but be VERY careful not to damage or scratch the lens. Disconnect the Front USB Cam coupling.

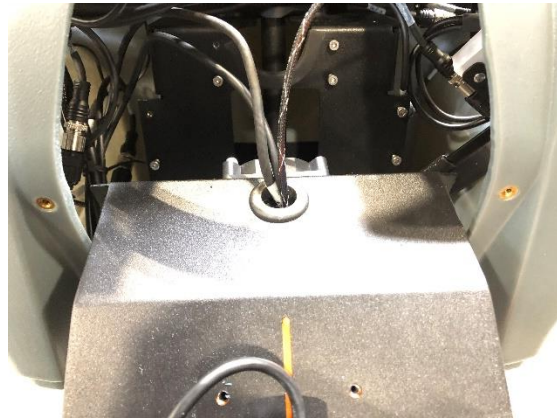
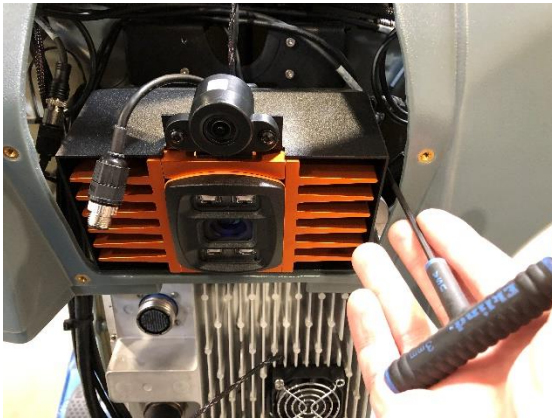


Remove the screws that hold the modem antennae. Move the antennae bracket to the right and tuck it temporarily up and out of the way.



Remove the Front IFM. It will need to be removed from the scrubber, the bottom screw loosened and then the camera slid out of its shield. The cables may then be accessed.

Take great care not to drop, scratch or damage the front IFM camera.



Reverse the steps outlined in this document to reassemble the scrubber after replacing the Uptrunk. Make sure the Front IFM and Slanted LIDAR are screwed in level and secure.