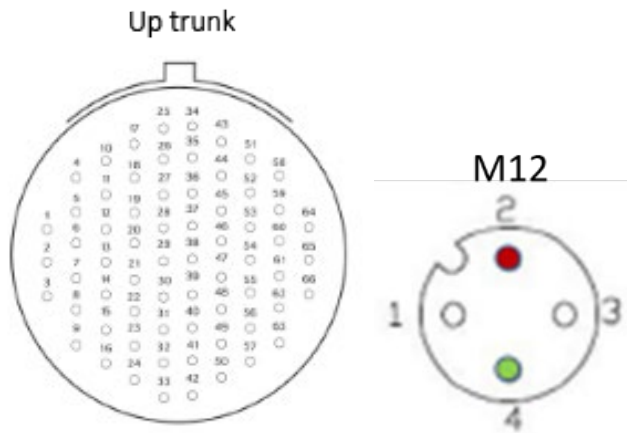


2D CAMERA VOLTAGE CHECKS

- Disconnect 2D camera that is not working properly
- Check the voltage on Pin 2 and 4 on the M12 connector. It should be 5V.
- If voltage is present, swap it with one of the other 2D cameras. If the issue follows the camera replace the 2D camera.

If voltage is NOT present, test for continuity for the suspect camera.

- Turn off the scrubber and disconnect batteries
- Locate the M12 connector and Up trunk cable
- Use the table below to test for continuity



CABLE PAIRS TO CHECK

Camera	M12 connector	Description	Up trunk
Right 2D	1	USB1P	5
	2	P5V	4
	3	USB1N	6
	4	GND	12
Front 2D	1	USB1P	2
	2	P5V	1
	3	USB1N	3
	4	GND	7
Left 2D	1	USB1P	8
	2	P5V	15
	3	USB1N	9
	4	GND	21

- If continuity **fails** replace the Up trunk
- If continuity **passes** take a photo of the BCM serial number and BCM LED lights and contact your coordinator for further assistance.