SOP for Connecting LED Strip Controller with Speedometer

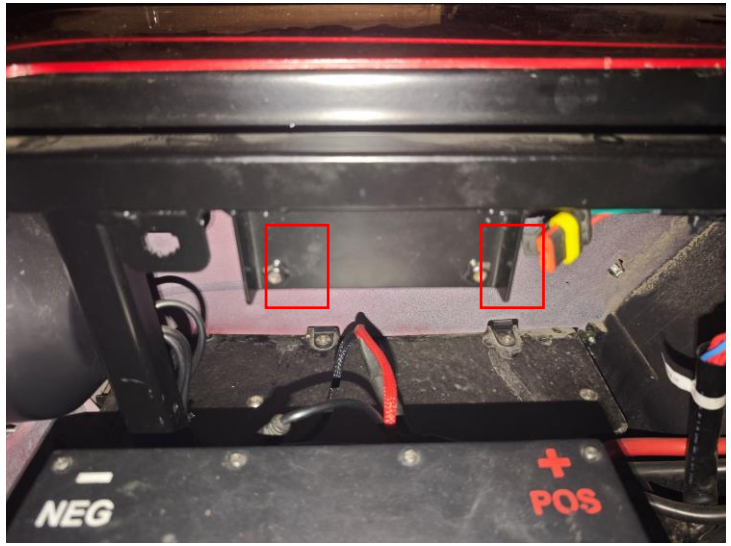
Step 1: Material Preparations

NO	Part Number	Part Name	Specification	Unit	QTY	Ref	Remark
1	3207019522	Speedometer	48V, standard functions + multimedia functions + AUX audio interface and microphone interface + wireless CarPlay	PCS	1		FX
	3207019543	Speedometer	48V, standard functions + multimedia functions + AUX audio interface and microphone interface + wireless CarPlay, startup logo is "ICON"	PCS	1		ICONX
2	3203029826	Controller	12V, ambient light controller assembly, processing the 3203029798 controller into DJ7031-1.5-11 and DJ7021-1.5-11 connectors.	PCS	1		

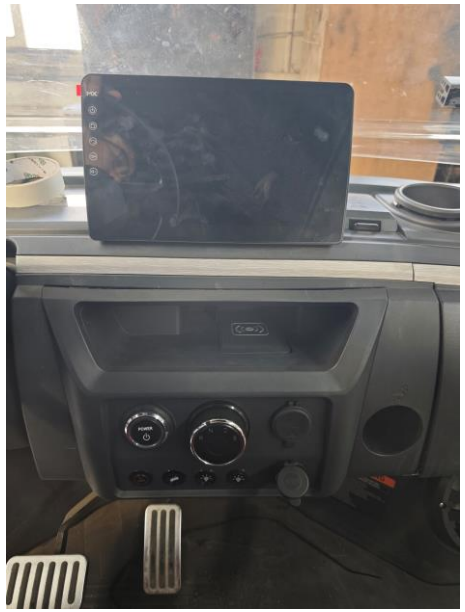
Step 2： Tools

1. Phillips screwdriver

Step3: Replace the LED strip controller with one that supports CAN communication. (FX)

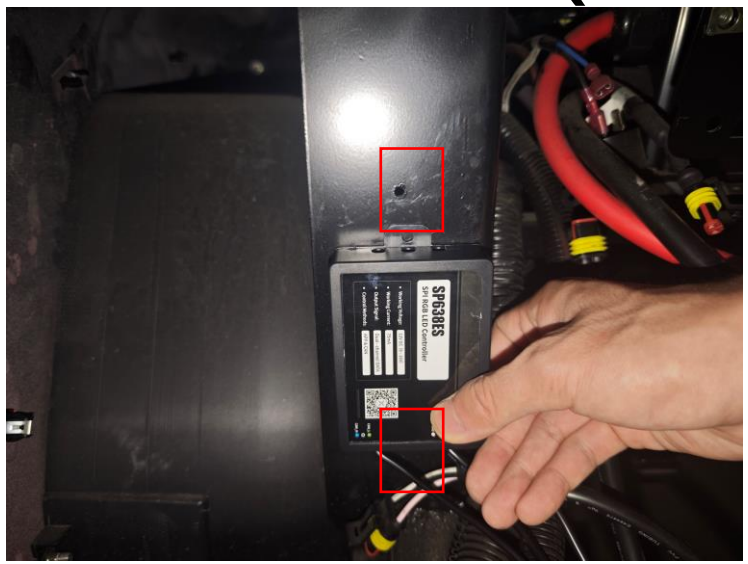


1. Disconnect the original light strip controller connector and remove the fixing bolts on both sides
2. Install and fix the new light strip controller, connecting the corresponding connectors.

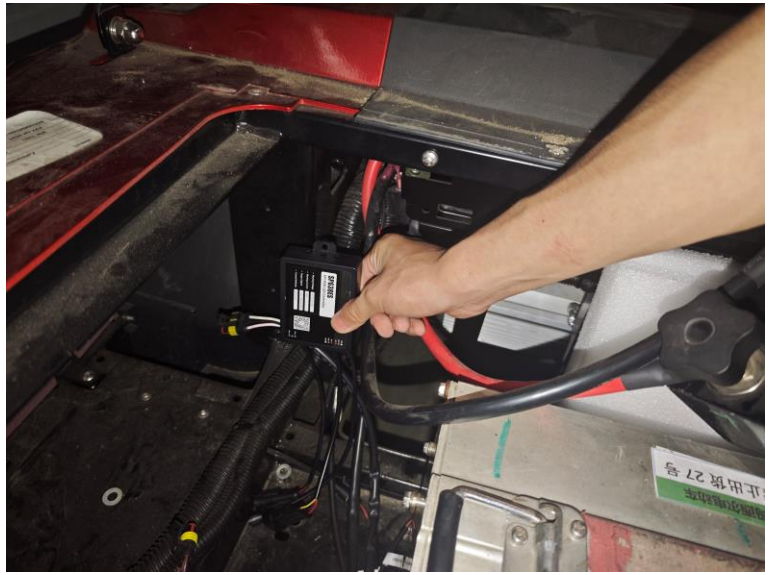


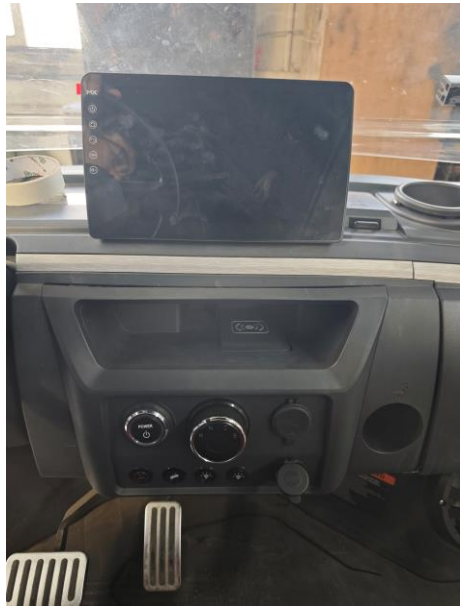
1. Replace the wireless Carplay speedometer and the matching camera extension cable and camera (if the original vehicle has a wired one, reassembly is not required).
2. Check the canopy light strip connector and side skirt light strip connector to ensure they are properly connected (The connector for the FX40 roof light strip is located above the left rear post. The connector for the FX20/60 light strip is located on either side of the front post.).

Step3: Replace the LED strip controller with one that supports CAN communication. (ICONX)



1. ICONX does not come standard with a light strip controller; no disassembly is required.
2. Install and secure the new light strip controller (mounting holes are pre-drilled on the frame), and connect the corresponding connectors.





1. Replace the wireless CP speedometer and its matching camera extension cable and camera (if the original vehicle has a wired one, reassembly is not necessary).
2. Check the canopy light strip connectors and side skirt light strip connectors to ensure they are properly connected (for the ICONX, these are located on both sides of the front posts).

Step 4: Use the speedometer to control the light strip

1. When the speedometer controller is successfully connected, the Ambient Lighting option will be highlighted; otherwise, it will be dimmed.

2. In the Ambient Lighting interface, CHL One controls the roof and side skirt lighting strips; CHL Two controls the speaker ambient lighting; All CHL controls both channels One and Two simultaneously; and Speaker controls the optional long speaker. The options below the control channels are mode options: Dynamic, Static, Rhythm, and Custom

3. The speedometer controls the light strip modes, color lights, and other functions, which are the same for FX and ICONX.

Step 5: Precautions

1. If the Ambient Lighting indicator on the speedometer remains dark gray after replacing new speedometer and light strip controller, please check the following:
    1. Ensure the wiring is secure.
    2. Check if the speedometer’s CAN bus is connected to the vehicle.
    3. Check if the light strip controller's CAN bus is connected to the vehicle.
    4. Check if the light strip controller's 3-pin connector is securely connected.
    5. Check if the light strip connector is securely connected.

2. If the original speedometer lacks a wireless CP function, it needs to be replaced with a wireless CP speedometer, a matching camera extension cable, and a camera. Failure to do so will result in the reversing camera function malfunctioning. If the original speedometer has a wired CP function, no additional replacement of the extension cable and camera is required.

3. Another connector for the light strip control is the Control Channel 2 connector. To control the speaker color, connect the speaker ambient light extension cable to all four speakers and then to the light strip controller. (ICONX have a pre-installed wiring harness; FX require rewiring and bundling.)

Remark

Channel 2: Connect to the vehicle's speakers and ambient lighting.

Connect the power cables for Channel 1 and the LED strip controller to the original LED strip controller connector.

CAN interface.