

iBot® by APS

PART#: PB-A159

READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. REMOVE CONTENTS FROM BOX AND VERIFY ALL PARTS ARE PRESENT. ASSISTANCE IS RECOMMENDED.

*ROCKER PANEL MOUNT

*TRIMMING/ DRILLING MAY BE REQUIRED FOR WIRING

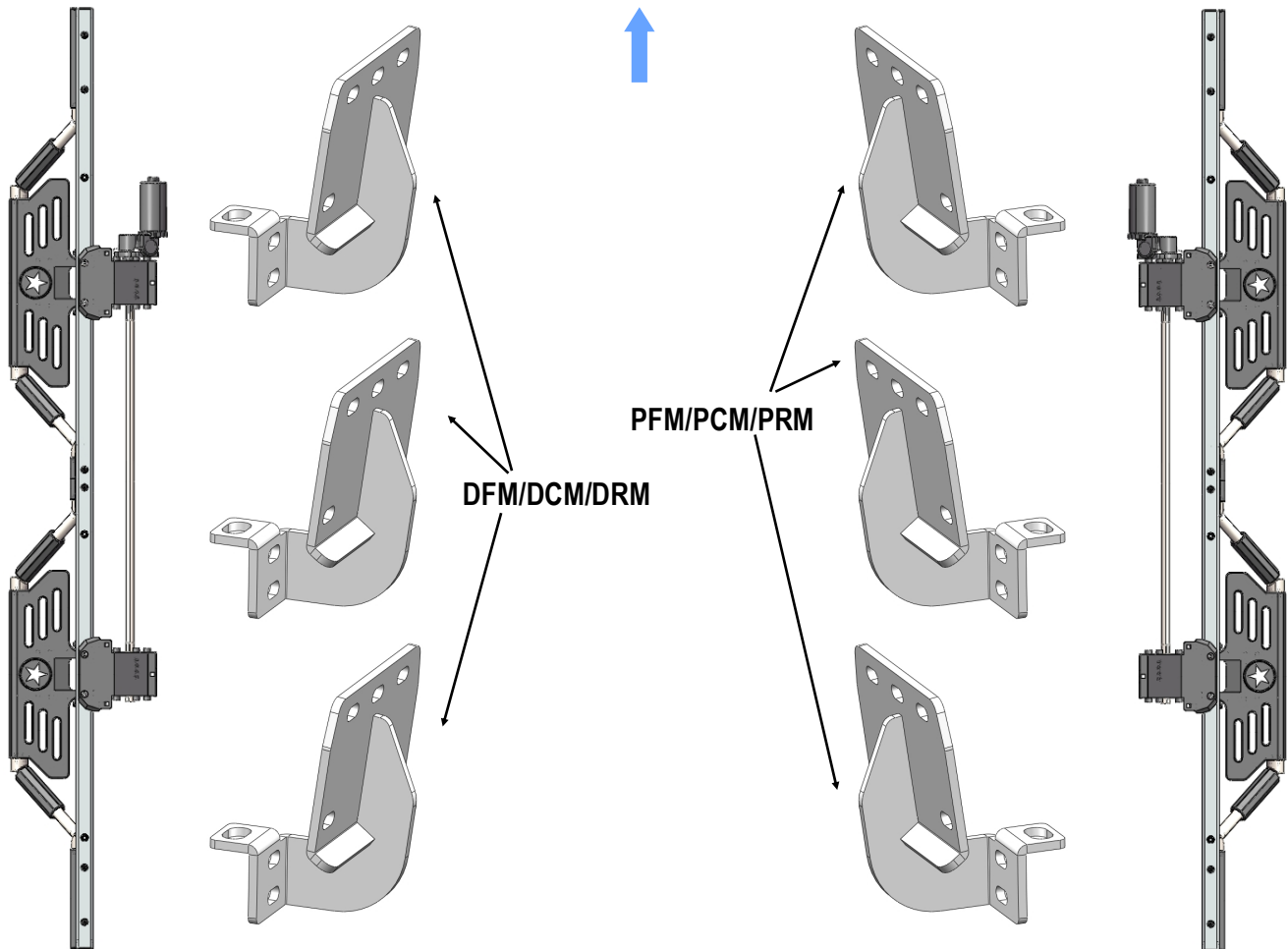
Fastener Size	Tightening Torque (ft-lbs)	Required
6mm	6-7	X
8mm	16-18	√
10mm	31-32	X
12mm	56-58	X
14mm	92-94	X

PART LIST



Driver Side Step Bar

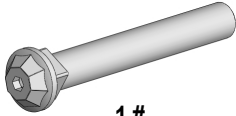
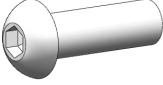


Front




Passenger Side Step Bar



Mounting Bracket List					
Item	QTY	Description	Item	QTY	Description
1#	3	Driver Side Mounting Brackets (DFM/DCM/DRM)	3#	3	Passenger Side Mounting Brackets (PFM/PCM/PRM)

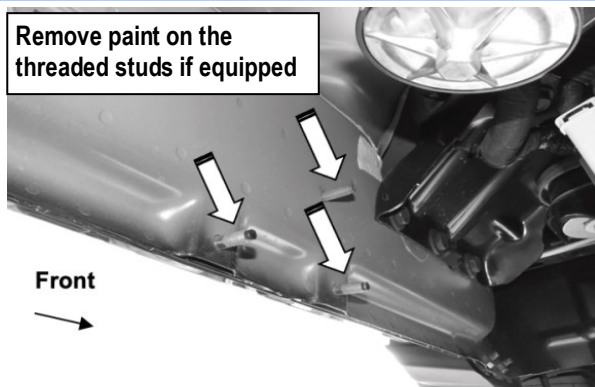
Hardware Package A (For Brackets Installation)					
Item	QTY	Description	Item	QTY	Description
1#	18	M8 Large Flat Washers	2#	18	M8 Lock Washers
					
		1#			2#

Hardware Package B (For Step Bars Installation)					
Item	QTY	Description	Item	QTY	Description
1#	12	M8X60 Decorative Bolts	3#	18	M8 Large Flat Washers
2#	6	M8X25 Inner Hex Bolts	4#	12	M8 Nylon Flange Lock Nuts
					
		1#			2#
					
					3#
					
					4#

Electrical Accessories					
Item	QTY	Description	Item	QTY	Description
1#	1	Main harness with wire taps	2#	1	ECU (Electronic Control Unit)
3#	15	Zip Ties			
					
		1#			2#
					
					3#

STEP 1

Start the installation from the Driver side front of the vehicle. Locate the front (3) factory studs along the inner side of the body panel. **(Fig 1)**. Use a wire brush to remove paint on the threaded studs if equipped.

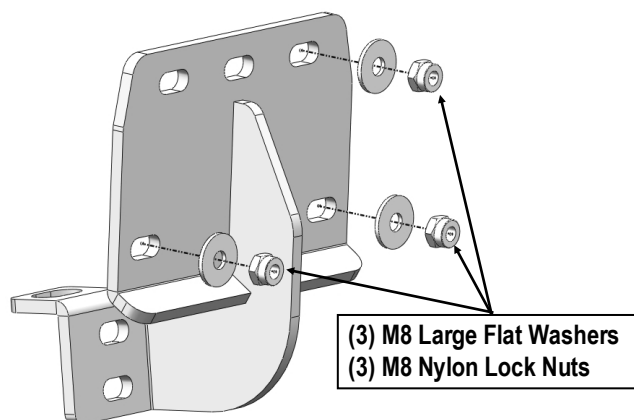


(Fig 1) Driver Side Front Mounting Location

STEP 2

Select (1) Driver Front Mounting Bracket (**DFM/DCM/DRM**). Attach the mounting bracket to the (3) factory studs with (3) M8 Large Flat Washers and (3) M8X1.25 Nylon Lock Nuts, **(Fig 2)**. Do not fully tighten hardware at this time. **(Fig 2)**.

Note: All (3) Driver Side Mounting Brackets are Universal.

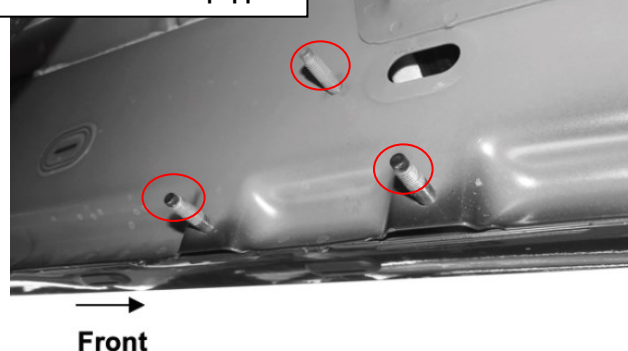


(Fig 2) Driver Front Mounting Bracket Installation

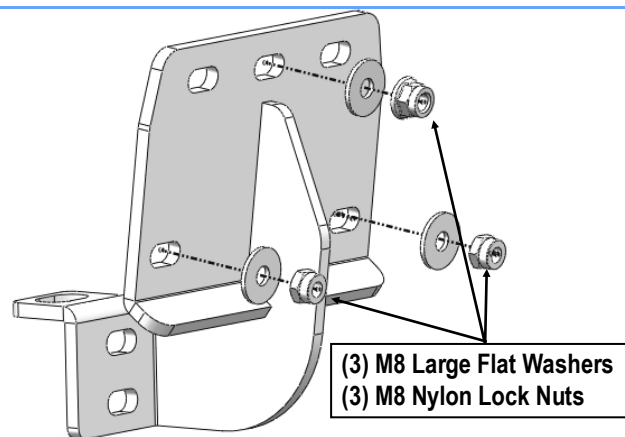
STEP 3

Repeat **Steps 1-2** to install Driver Center Mounting bracket and Driver Rear Mounting bracket, **(Figs 3-5)**. Do not fully tighten hardware at this time.

Remove paint on the threaded studs if equipped

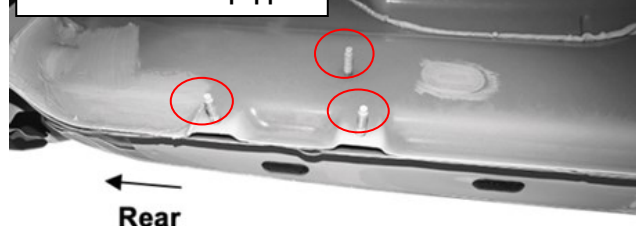


(Fig 3) Driver Side Center Mounting Location



(Fig 4) Driver Center Mounting Bracket Installation

Remove paint on the threaded studs if equipped



(Fig 5) Driver Side Rear Mounting Location

STEP 4

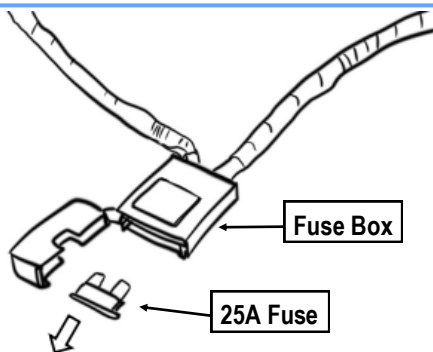
Move to the Passenger Side, repeat Steps 1-3 to install Passenger Side Mounting Brackets (PFM/PCM/PRM).

Note: All (3) Passenger Side Mounting Brackets are universal.

STEP 5

Start from the engine compartment by opening the front hood of the vehicle. Locate the Battery and its terminals (positive/negative). Remove the 25A fuse from the fuse box that comes with the main harness. (Fig 5)

***WARNING:** Keeping the fuse connected to the fuse box may result in electrical sparks and risk of shorting when working with the battery.

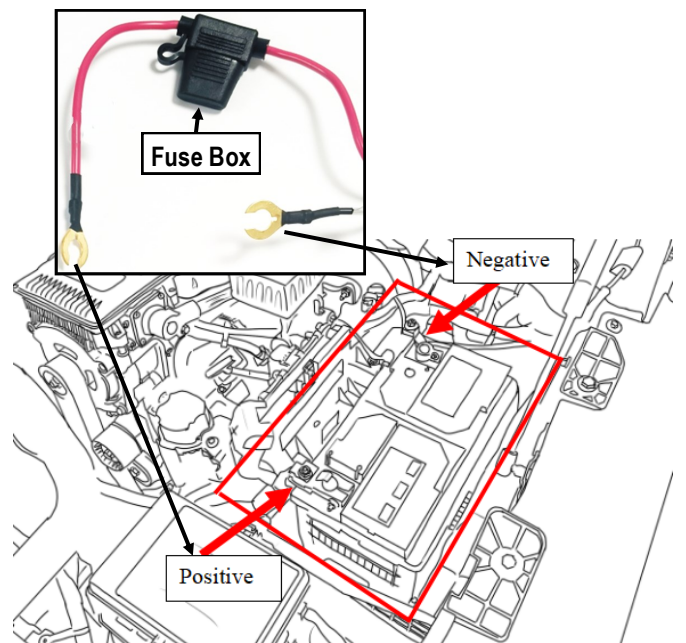


(Fig 5) 25A Fuse and Fuse Box

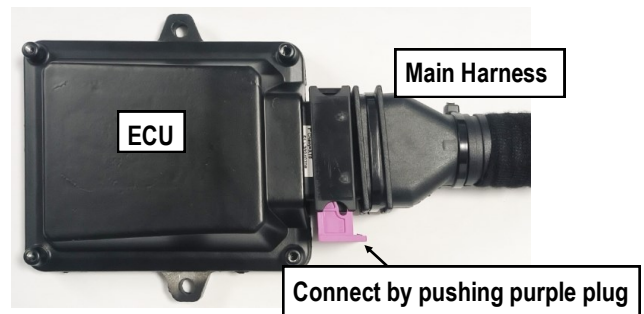
STEP 6

Connect the positive power lead on main harness to the positive battery terminal. Connect the negative lead to the negative battery terminal. (Fig 6). Make sure both power leads are fully secured. **Connect the ECU to the main harness. (Fig 7)**

Note: Battery is on Driver Side of engine compartment.



(Fig 6) Positive and Negative Battery Terminals



(Fig 7) ECU AND Main harness Connection

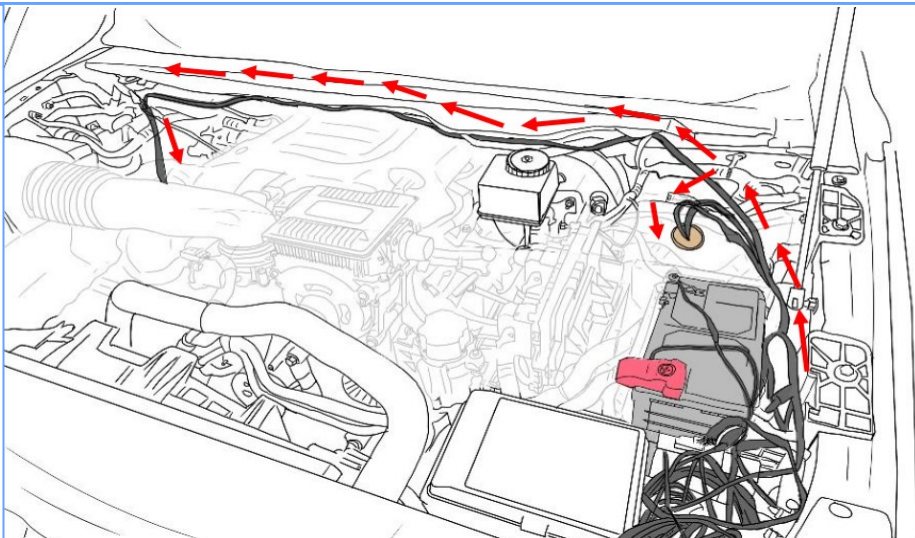
STEP 7

Route the main harness around the battery, up along the rear of the engine compartment. The Driver-side branch ((marked "L") of the main harness must route down the backside, against the fire wall, and down past the steering column towards the vehicle frame. Be sure to avoid contact with the steering column. (Fig 8) Route the passenger (marked "R") leg of the harness down the Passenger-side wheel well. Be sure to avoid contact with any moving or hot engine components. Attach and secure the main harness with the supplied zip ties. (Fig 8)

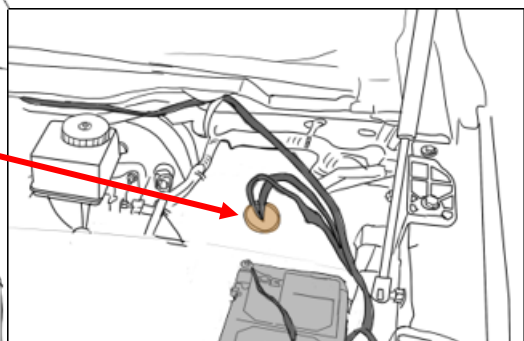
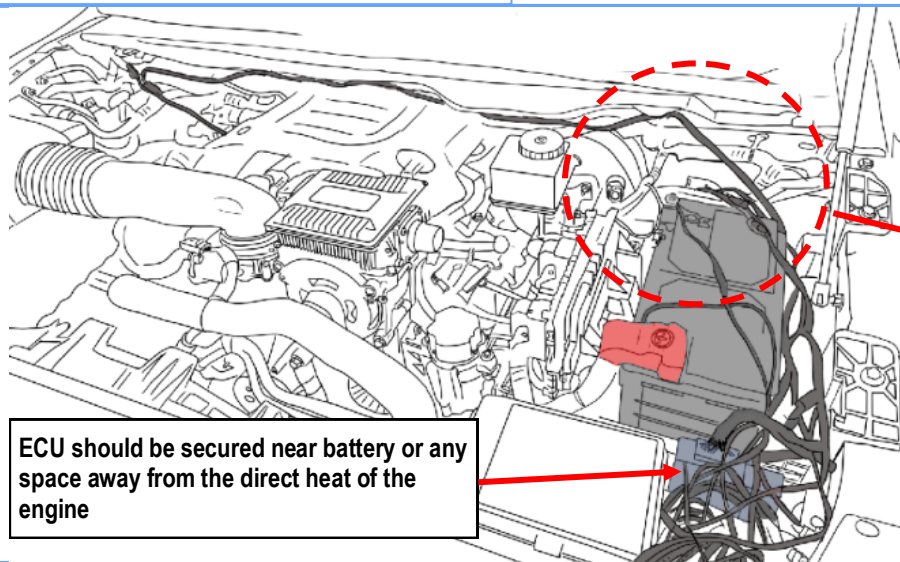
Route the CAN signal (has 2 wires with labels "CAN+" & "CAN-") branch of the main harness through the double-sided rubber boot against the backside of the engine bay. The boot can be clearly seen from the inside of the cabin. **Be sure to avoid contact with the steering column.** (Fig 9)

ECU should be secured near battery or any space away from the direct heat of the engine. (Fig 9)

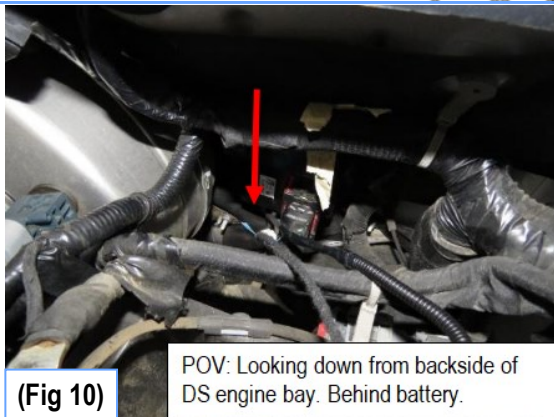
Inside the cabin, the rubber boot access is located under the steering wheel, behind the brake pedal. A pry-tool is recommended when peeling back the boot flap from the inside of the cabin. (Fig 10-11)



(Fig 8) Front Engine of the Vehicle

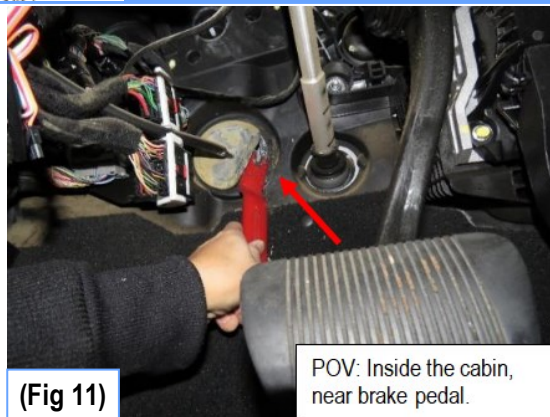


(Fig 9)



(Fig 10)

POV: Looking down from backside of DS engine bay. Behind battery.

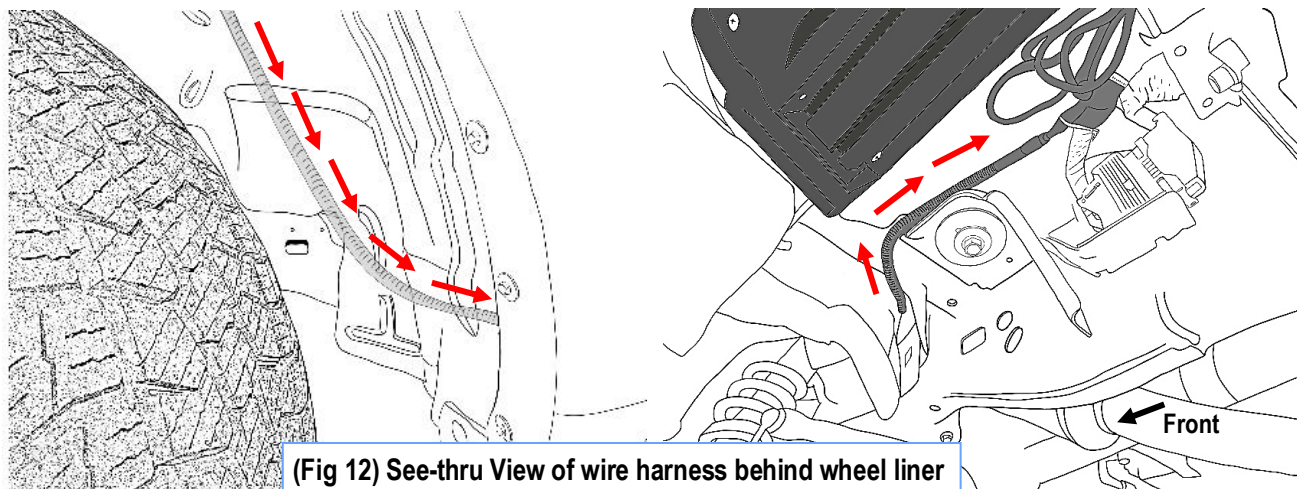


(Fig 11)

POV: Inside the cabin, near brake pedal.

STEP 8

Route the main harness through the engine bay and behind the Driver-Side wheel well liner, then to the Drive-side frame. (Fig 12)



STEP 9

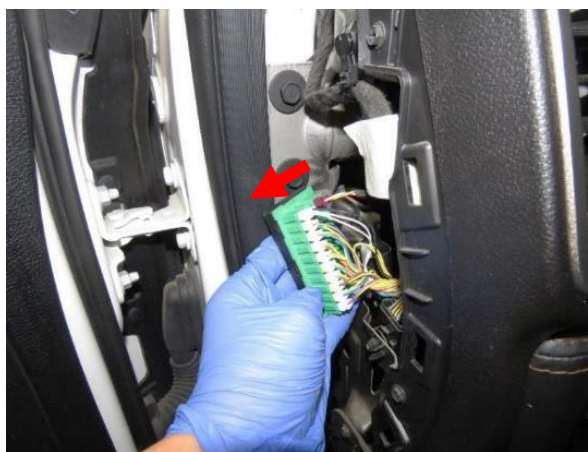
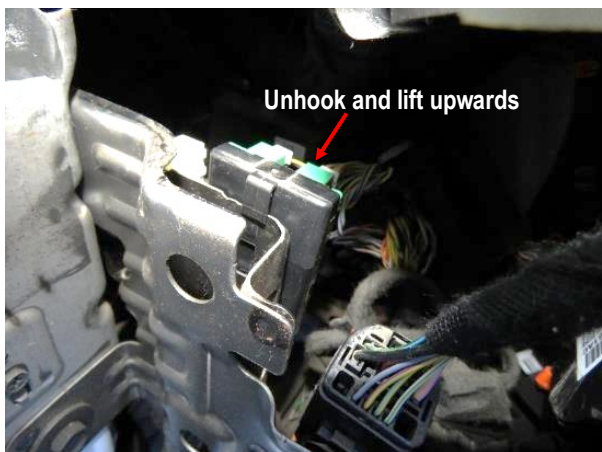
After routing all branches of the Main Harness, check to make sure the wires are secure with cable zip ties. Be sure to avoid contact with any moving or hot engine components. When routing wires through the wheel well area, it is important to avoid the vehicle suspension.

STEP 10

Locate the side of the dash panel on with the front driver side door open. Carefully peel the weather strip from the door seams and use a pry tool to remove to the side dash panel.



Locate the green CAN wiring hub on the backside of the metal framework. Carefully remove the entire black plastic casing (with the green wiring hub attached) by pulling it up. On some models a plastic detent may need to be pressed to unhook the plastic casing from the metal bracket. Carefully pull the plastic hub out of the side cavity for ease of reach.

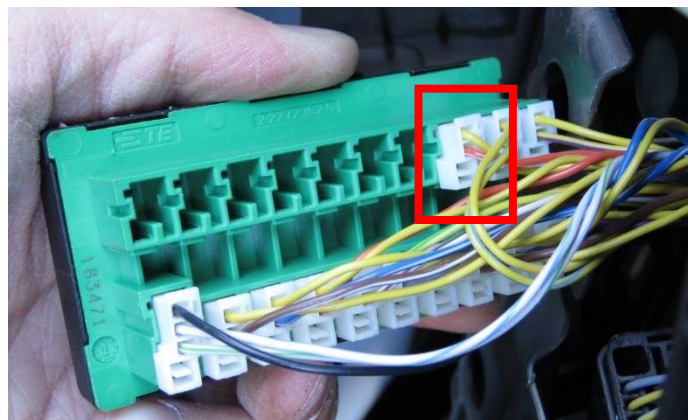


STEP 11

Identify the configuration of the plugs on the CAN Bus hub. On the row with empty slots, select the closest plug with two wires extending from it. The wire closer to the center of the hub is the CAN High wire. The wire further towards the outer edges is the CAN Low wire.

Confirm that the truck is powered off. Connect the High and Low wires from the main harness using the wire taps. After successfully connecting the wires, return the module back into its place and check that it is secure on the bracket.

NOTE: Some colors may differ from vehicle to vehicle. It is recommended to always use the OE plug as a reference point when identifying the CAN High and CAN Low wires.

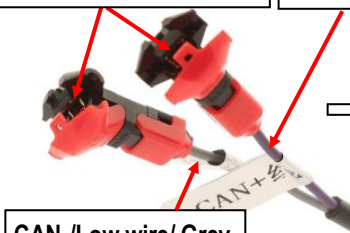


Factory CAN Wire	Main harness wire color
Yellow (CAN-L)	Grey (Low)
Orange w/ White Stripe (CAN-H)	Purple (High)

NOTE: Some colors may differ from vehicle to vehicle. It is recommended to always use the OE plug as a reference point when identifying the CAN High and CAN Low wires.

Insert Vehicle Data Lines Here and Tighten

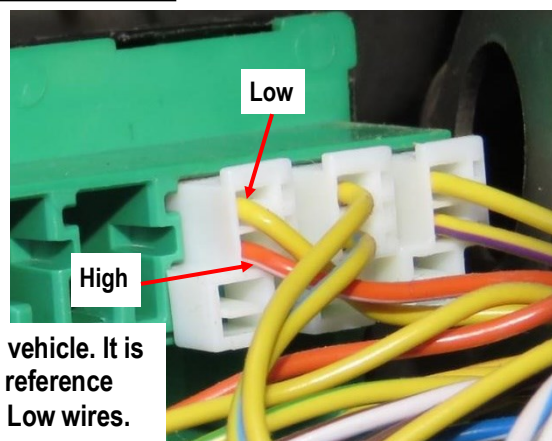
CAN+/High wire/ Purple



CAN-/Low wire/ Grey



Example only



Low

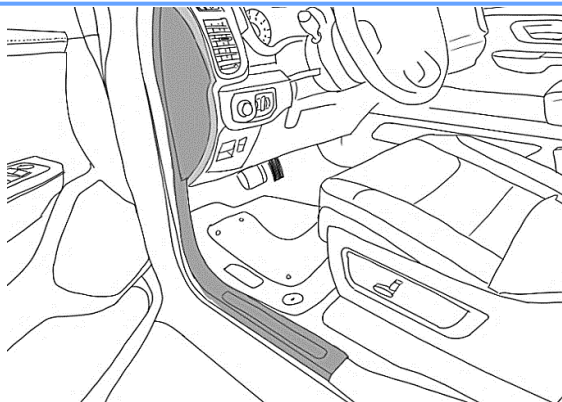
High

STEP 12

Seal the rubber boot with RTV Silicone Sealant if needed.

Hide wires and reattach the interior panels with the carpet fully unfurled in its original position. Reattach the door sill weather strip.

Check to make sure there are no obstructions or potential snag points around the brake pedal area.



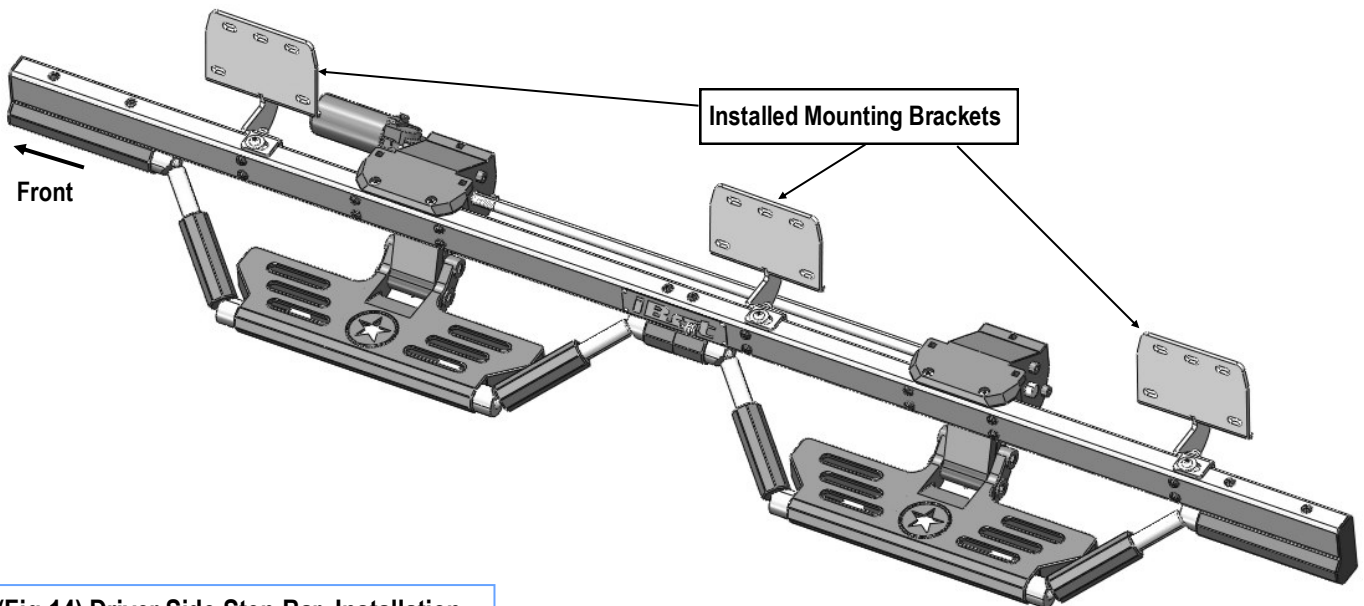
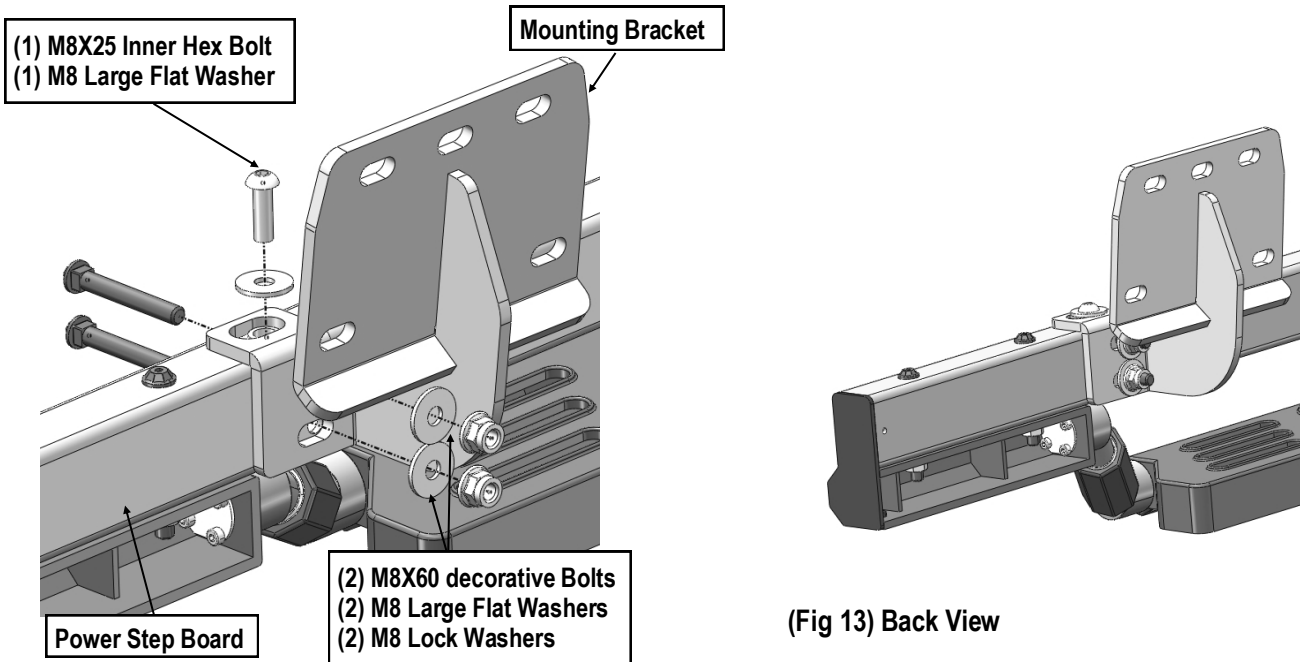
STEP 13

Move to the installation of Step Bars. select and attach the Driver Side Power Step Board onto the Mounting Brackets with (3) M8 Inner Hex Bolts, (9) M8 Large Flat Washers, (6) M8 Nylon Lock Nuts and (6) M8 Decorative Bolts, (**Fig 22**). Properly level and adjust the Step Bar and fully tighten all hardware.

Repeat for Passenger side Power Step Installation.

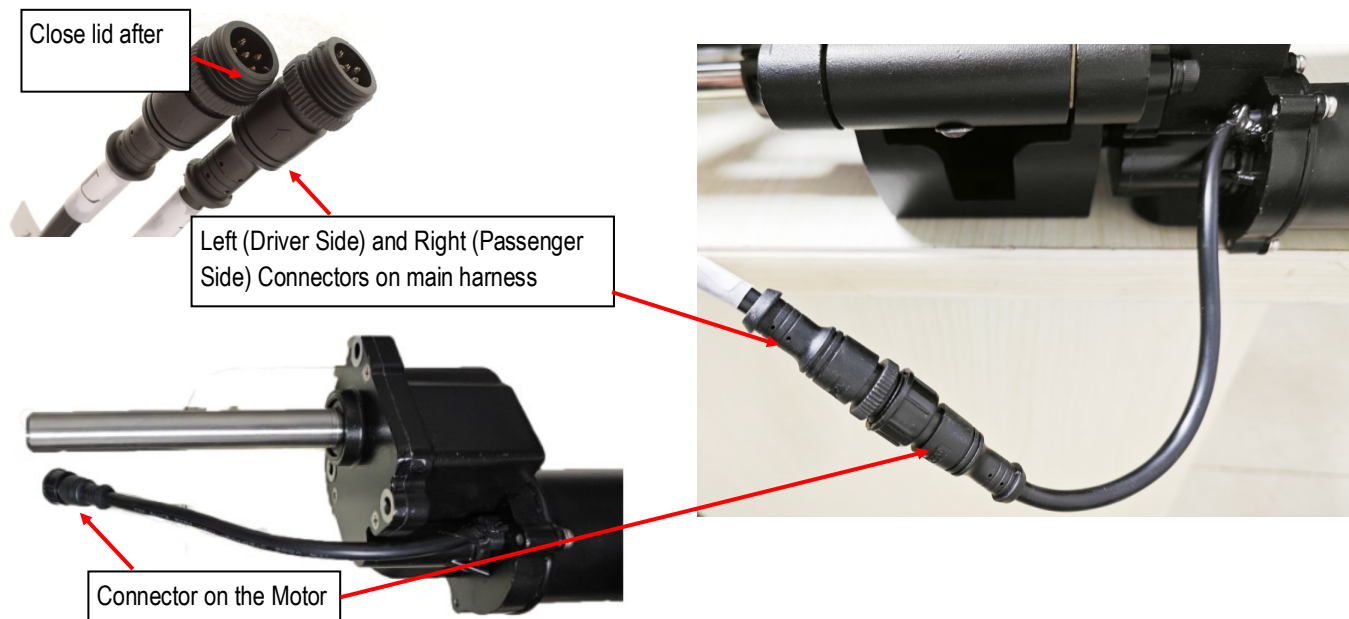
STEP 14

Move to the installation of Step Bars. select and attach the Driver Side Power Step Board onto the Mounting Brackets with (4) M8 Inner Hex Bolts, (12) M8 Large Flat Washers, (8) M8 Nylon Lock Nuts and (8) M8 Decorative Bolts, **(Figs 13-14)**. Properly level and adjust the Step Bar and fully tighten all hardware. Repeat for Passenger side Power Step Installation.



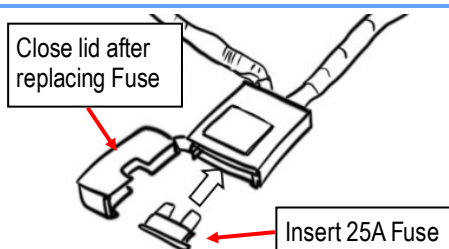
STEP 15

Connect the harnesses on the Driver Power Step Board and Passenger Power Step Board to the main harness.



STEP 16

Re-place Fuse into Fuse Box.



STEP 17

Once all is installed, perform a function check by closing the driver side front door and opening it again. Check and make sure all hardware is fully tightened. Perform a final system check. Installation complete.

Note: If board does not move during troubleshooting, flip the CAN Signal High and Low wires.

Attention

Do periodic inspections to the installation to make sure that all hardware is secure and tight.
In order to protect your bars/boards, please use mild soap/non-abrasive products for cleaning only.