

iBot® by APS

PART#: PB-A175

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

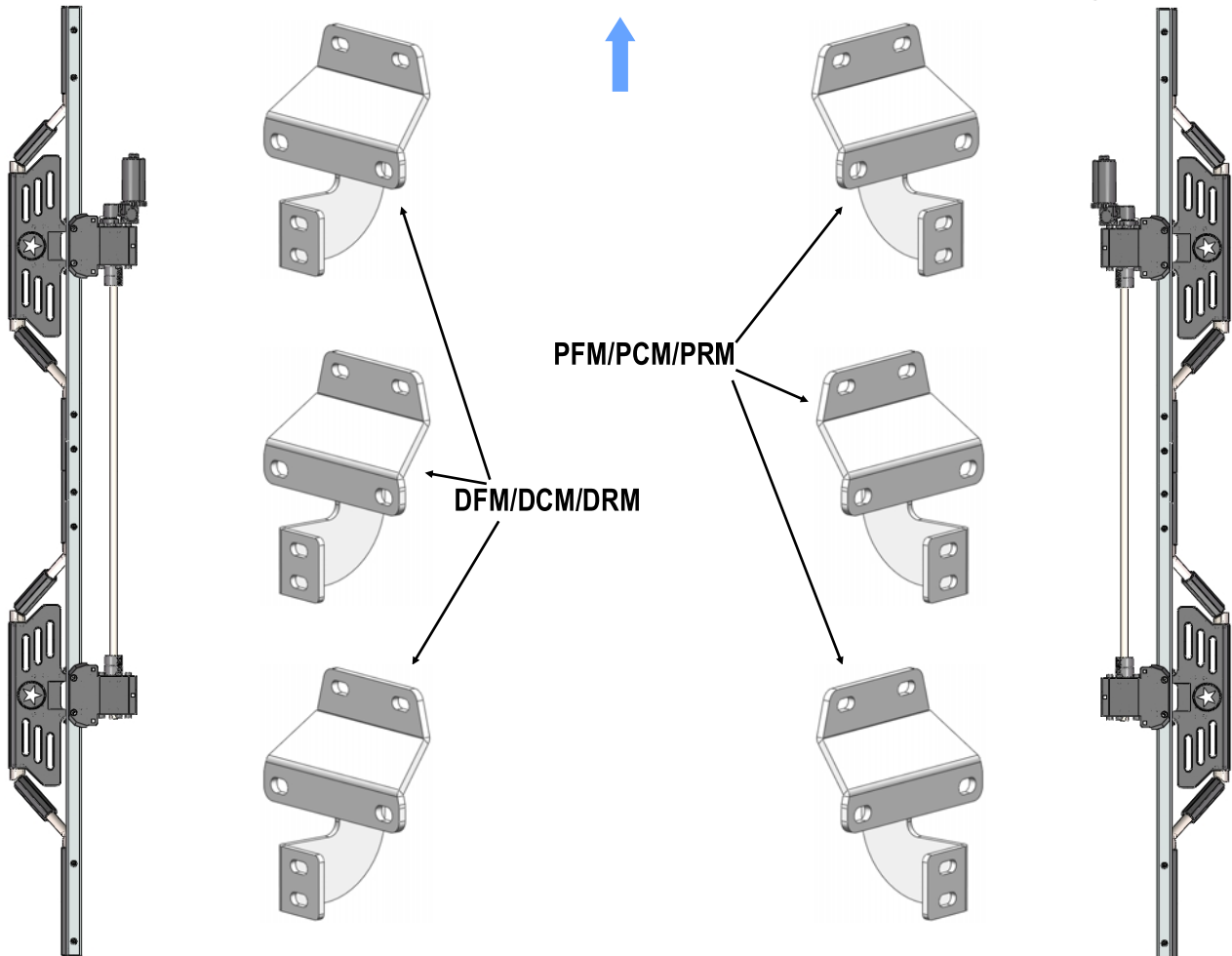
Fastener Size	Tightening Torque (ft-lbs)	Required
6mm	6-7	X
8mm	16-18	√
10mm	31-32	X
12mm	56-58	X
14mm	92-94	X

PART LIST




Driver Side Step Bar

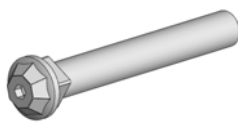


Front




Passenger Side Step Bar



Mounting Bracket List					
Item	QTY	Description	Item	QTY	Description
1#	3	Driver Side Mounting Brackets (DFM/DCM/DRM)	2#	3	Passenger Side Mounting Brackets (PFM/PCM/PRM)

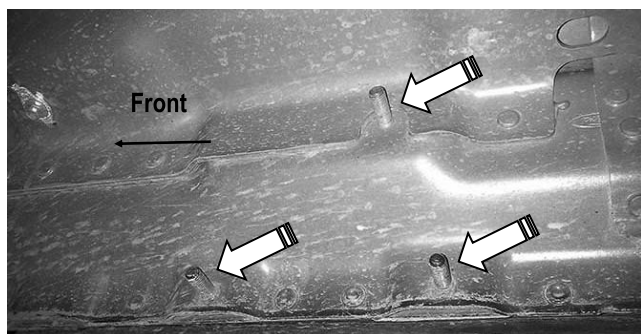
Hardware Package A (For Brackets Installation)					
Item	QTY	Description	Item	QTY	Description
1#	18	M8 Plastic Washers	3#	18	M8 Nylon Lock Nuts
2#	18	M8 Large Flat Washers			
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>1#</p> </div> <div style="text-align: center;">  <p>2#</p> </div> <div style="text-align: center;">  <p>3#</p> </div> </div>					

Hardware Package B (For Step Bars Installation)					
Item	QTY	Description	Item	QTY	Description
1#	12	M8X60 Decorative Bolts	3#	12	M8 Nylon Flange Lock Nuts
2#	12	M8 Large Flat Washers			
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>1 #</p> </div> <div style="text-align: center;">  <p>2 #</p> </div> <div style="text-align: center;">  <p>3 #</p> </div> </div>					

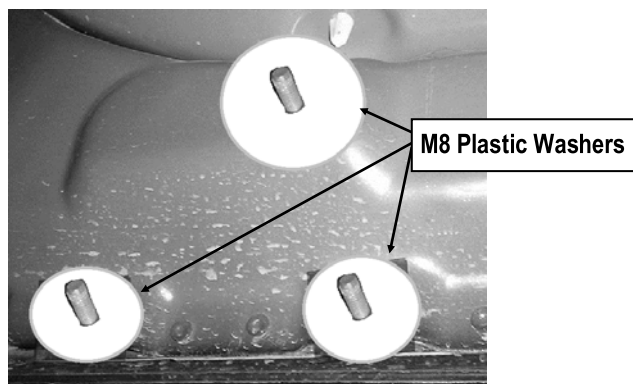
Electrical Accessories					
Item	QTY	Description	Item	QTY	Description
1#	1	Main harness with wire taps	2#	1	ECU (Electronic Control Unit)
3#	15	Zip Ties			
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>1 #</p> </div> <div style="text-align: center;">  <p>2 #</p> </div> <div style="text-align: center;">  <p>3#</p> </div> </div>					

STEP 1

Start the installation under the driver side of the vehicle. Locate the (3) factory studs along the inner side of the body panel, (**Fig 1**). Thread (3) M8 Plastic Washers over the (3) factory mounting studs on the body panel, (**Fig 2**).



(Fig 1) Driver Side Front Mounting Location

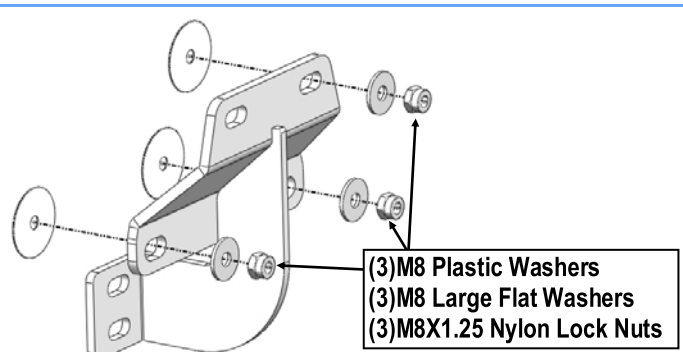


(Fig 2) Thread M8 Plastic Washers onto the mounting studs

STEP 2

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

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



(Fig 3) Driver Front Mounting Bracket Installation

STEP 3

Repeat **Step 2** to install the Driver center Mounting Bracket and Driver Rear Mounting Bracket (**DFM/DCM/DRM**). Do not fully tighten hardware at this time.

STEP 4

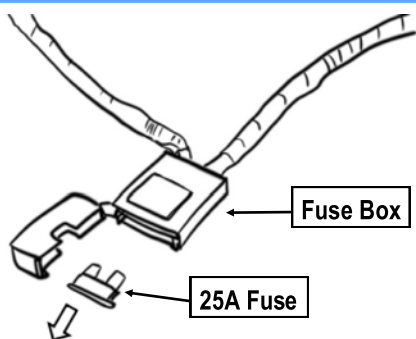
Move to the Passenger Side, repeat Step 1-3 to install Passenger Side Mounting Brackets (**PFM/PCM/PRM**).

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 4**).

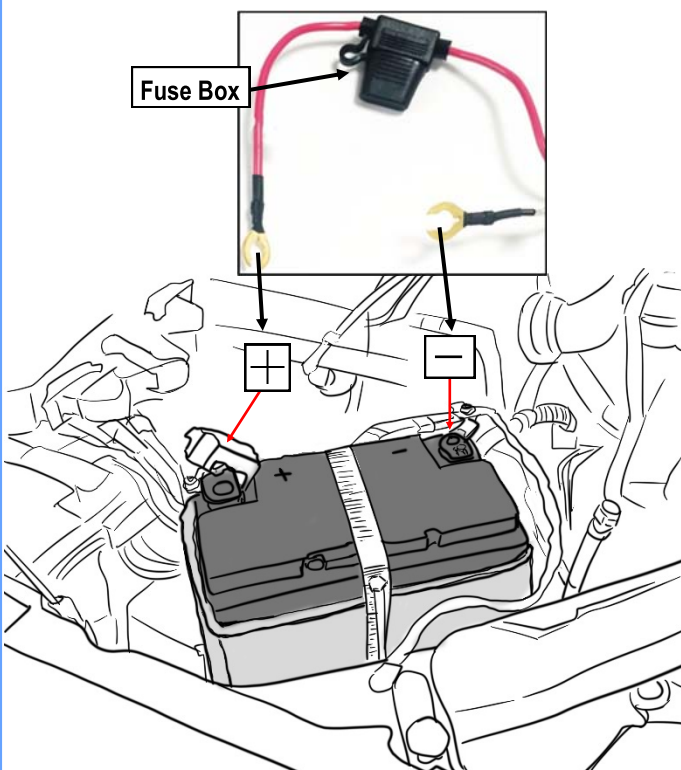
***WARNING:** Keeping the fuse connected to the fuse box may result in electrical sparks and risk of shorting when working with the battery.



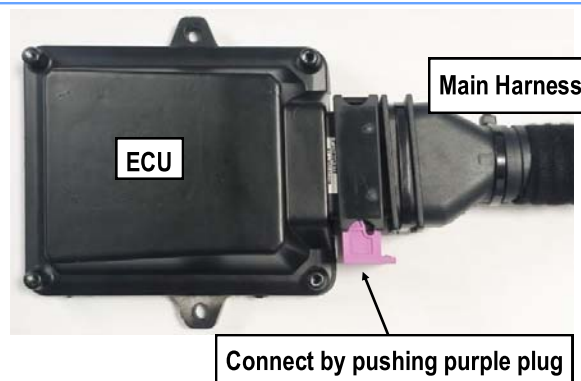
(Fig 4) 25A Fuse and Fuse Box

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 5)**. Make sure both power leads are fully secured. **Connect the ECU to the main harness. (Fig 6)**



(Fig 5) Positive and Negative Battery Terminals



(Fig 6) ECU AND Main harness Connection

STEP 7

Route the main harness around the battery, up along the rear of the engine compartment, and down the Driver-side wheel well. Route the shorter 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 Zip Ties **(Fig 7)**.

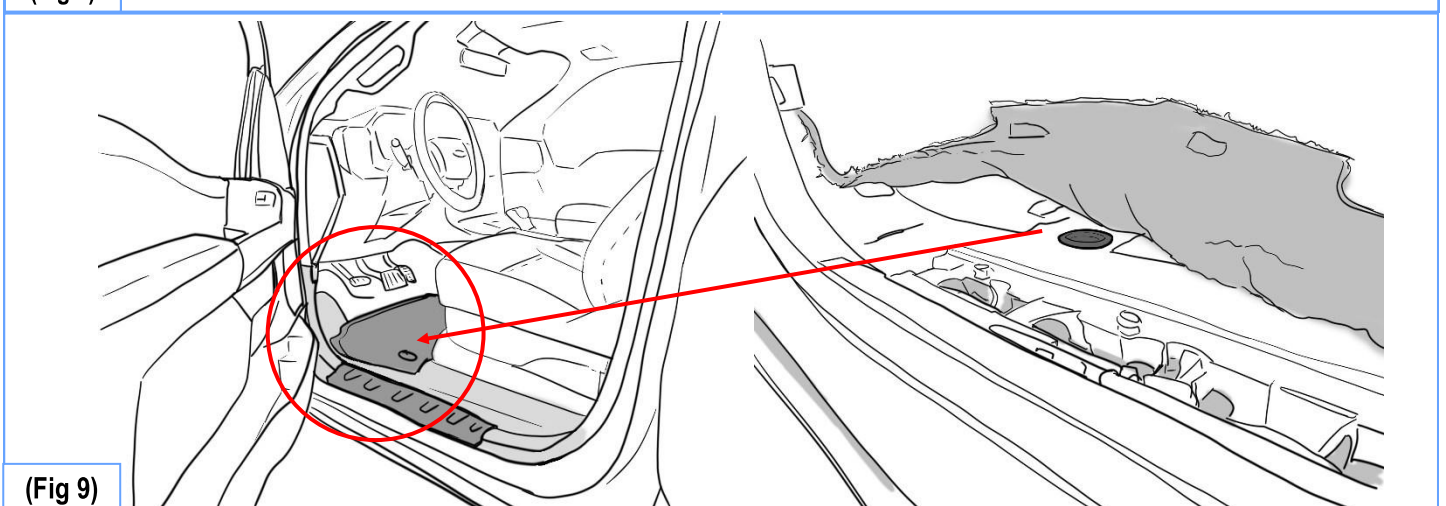
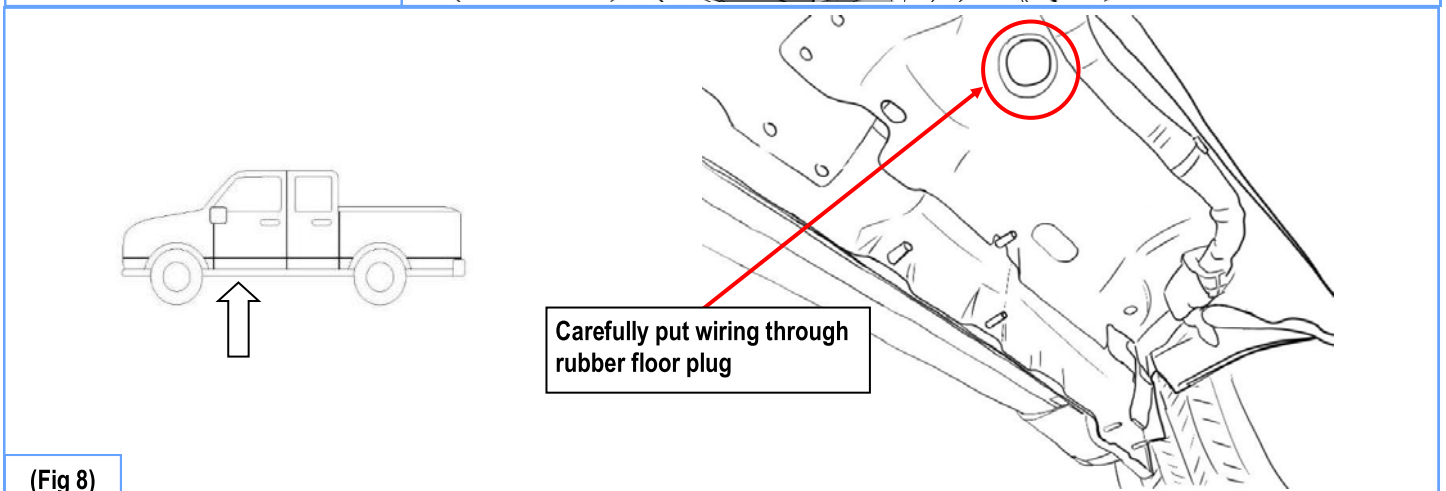
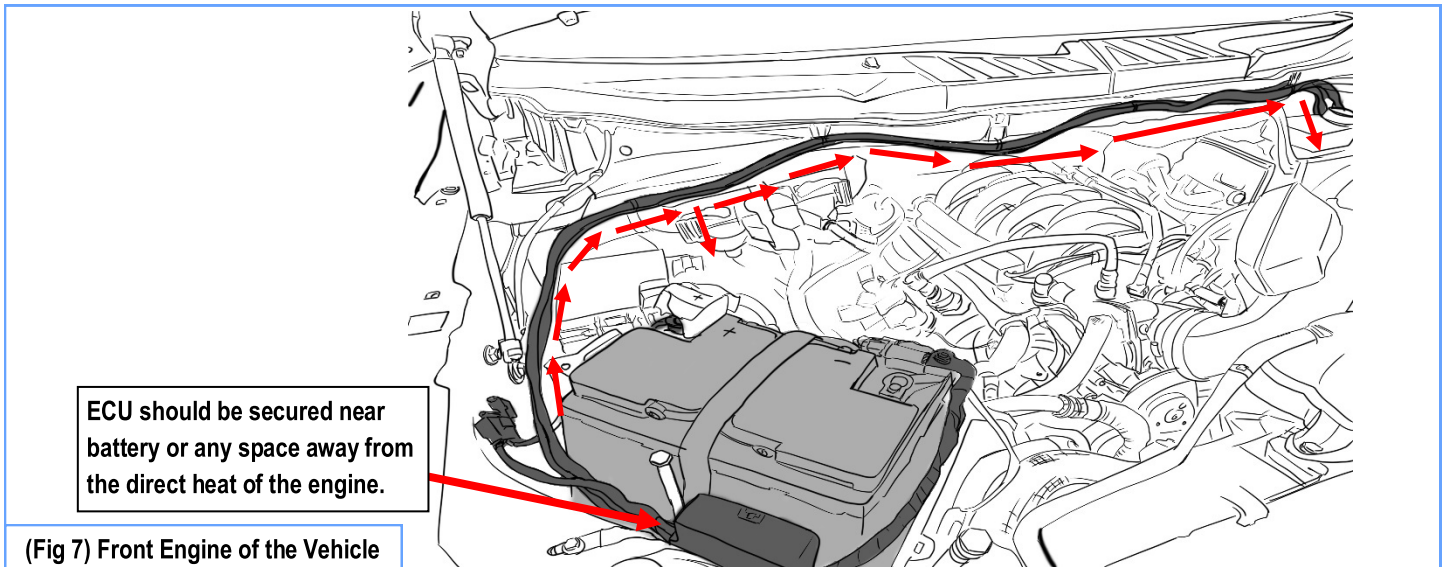
ECU should be secured near battery or any space away from the direct heat of the engine.

STEP 8

On the underside of the driver side, locate and remove the floor grommet in the floor panel behind the front wheel well. The grommet will be close to the front linkage arm. Poke a hole through the grommet and thread the two signal wires through and up into the vehicle cabin. **(Fig 8)**.

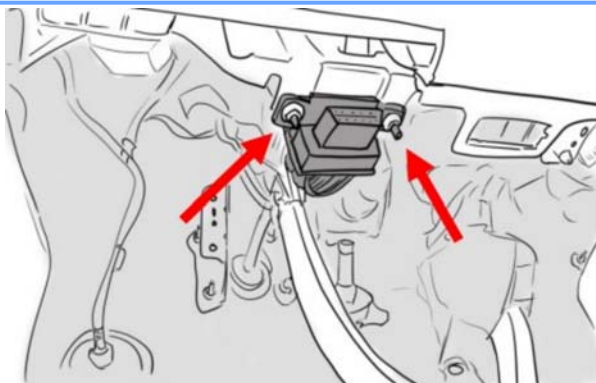
STEP 9

Inside the vehicle cabin, remove the driver-side front kick panel and bottom door sill plate. Peel back the carpet to across the hole where the grommet was removed. Feed the wires through. **(Fig 9)**.

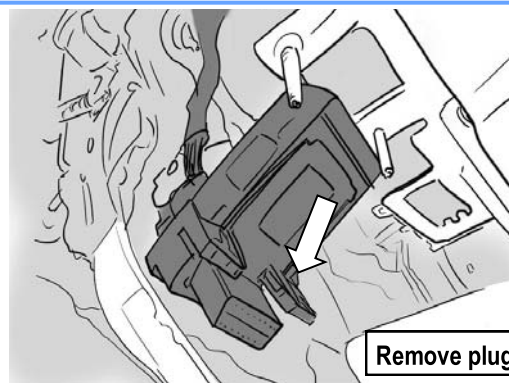


STEP 10

Locate the OBD-II Port under the steering wheel, near the front hood release lever. Unbolt the two flanged nuts using a socket for easier access to the rear side of the plug. **(Fig 10)**.



(Fig 10)



Remove plug

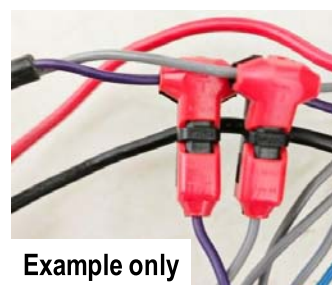
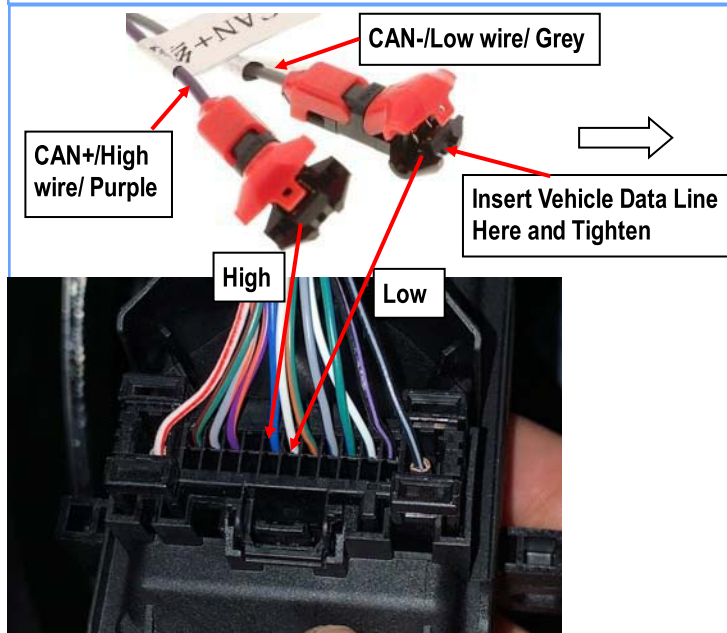
STEP 11

Identify wire configurations from back of the OBD-II Connector and continue with the appropriate steps base on type of connector.

*** If wires are connected in a single row (Smart Data Link Module), follow Step 11A.**

*** If wires are connected to both rows (Standard OBD-II Connector), follow Step 11B instead.**

Part A: Confirm wires are connected to only single row behind OBD-II Connector (Smart Data Link Module). Connect the High and Low wires from the main harness using the supplied wire taps. After successfully connecting the wires, return the module back into its place, tighten the previously removed nuts, and check that it is secure on the bracket. **(Fig 11)**



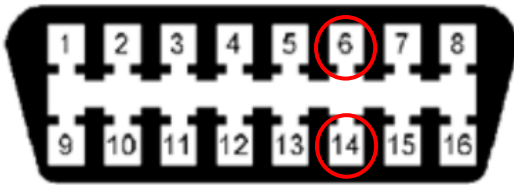
Factory CAN Wire	Main harness wire color
6th from right, White (CAN-L)	Grey (Low)
7th from right, Blue (CAN-H)	Purple (High)

***NOTE:** On some vehicles, the Blue Wire may be White with Blue Stripe.

(Fig 11)

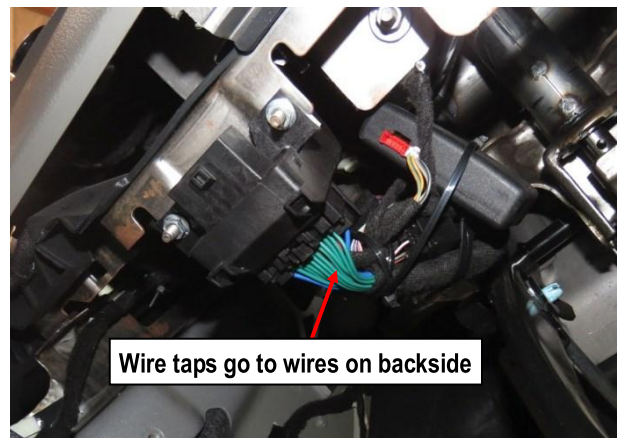
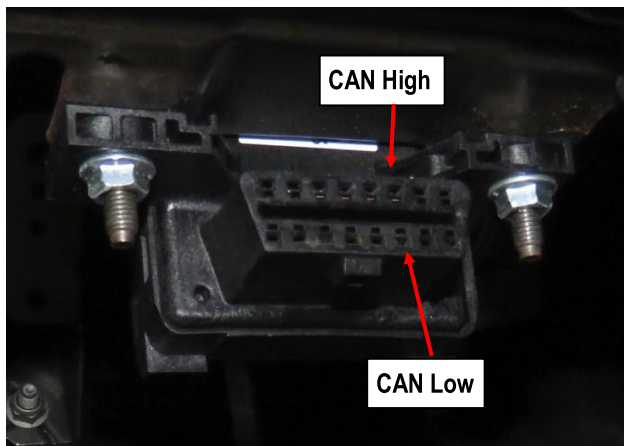
Part B: Confirm wires are connected in two rows (Standard OBD-II Connector). Identify the appropriate wires on back of the plug which correspond to the indicated positions on the front of the plug. Connect the Yellow (Low) and White (High) wires from the main harness using the supplied wire taps. After successfully connecting the wires, return the module back into its place, tighten the previously removed nuts, and check that it is secure on the bracket. **(Fig 12)**

OBD-II Connector Pin Layout



Factory CAN Wire	Main harness wire color
3rd from right (upper), Pin 6	Purple (High)
3rd from right (lower), Pin 14	Grey (Low)

Find and use wire taps on corresponding wires for Pin 6 and 14 on backside of OBD. Pin 6=CAN-H Pin 14=CAN-L

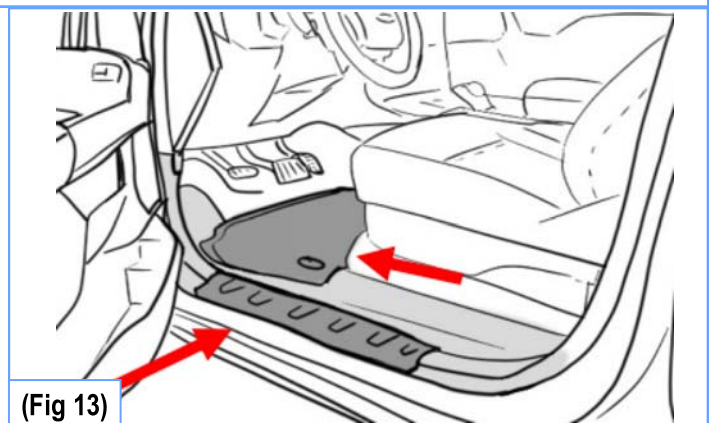


(Fig 12)

STEP 12

Seal the grommet with RTV Silicone Sealant.

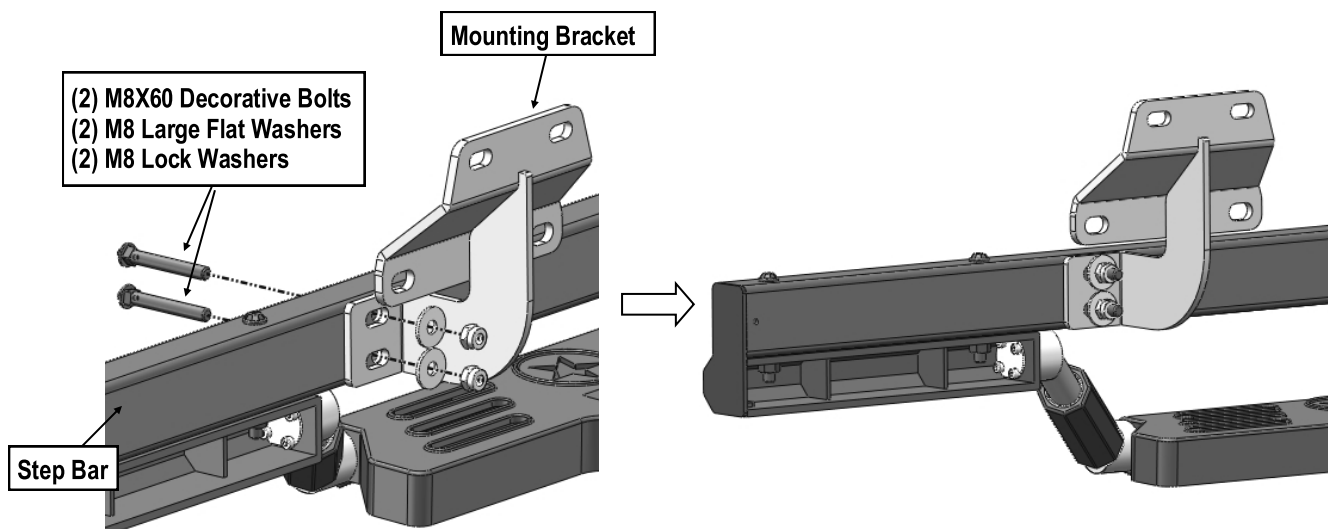
Hide wires and reattach the kick panel with the carpet fully unfurled in its original position. Reattach the door sill panel and check to make sure there are no obstructions or potential snag points around the brake pedal area. **(Fig 13)**



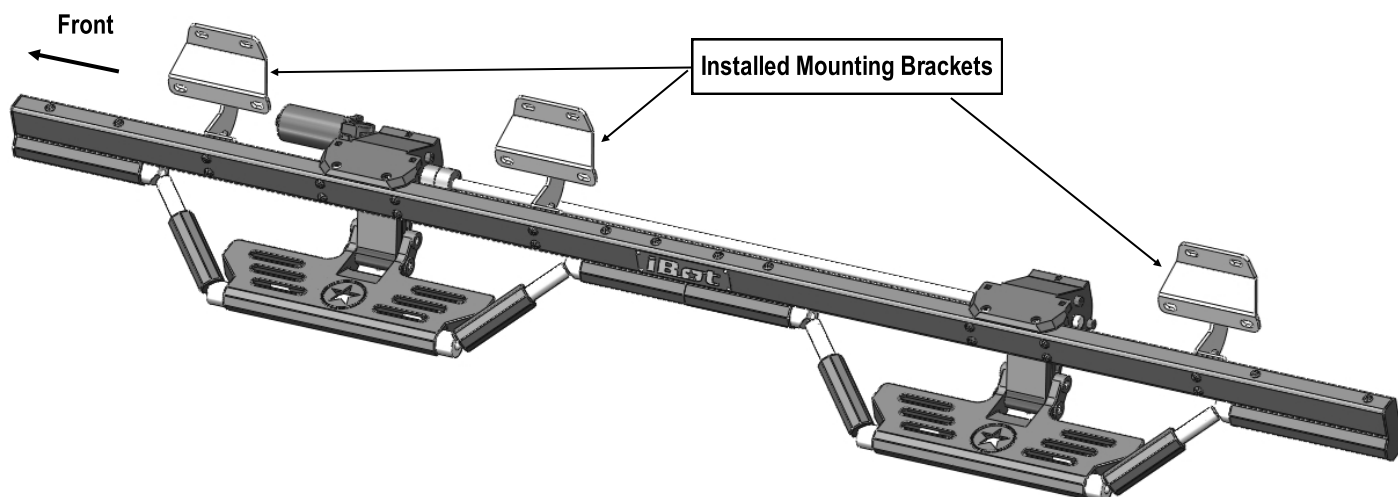
(Fig 13)

STEP 13

Move to the installation of Step Bars. select and attach the Driver Side Power Step Board onto the Mounting Brackets with (12) M8 Large Flat Washers, (12) M8 Nylon Lock Nuts and (12) M8 Decorative Bolts, **(Figs 14&15)**. Properly level and adjust the Step Bar and fully tighten all hardware.
Repeat for Passenger side Power Step Installation.



(Fig 14) Back View



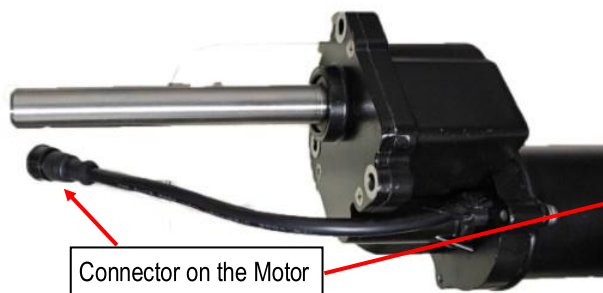
(Fig 15) Driver Side Step Bar Installation

STEP 14

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



Left (Driver Side) and Right (Passenger Side) Connectors on main harness



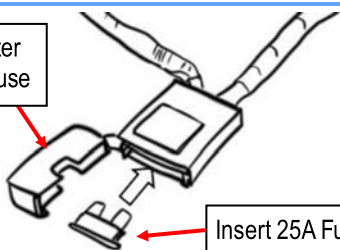
Connector on the Motor



STEP 15

Re-place Fuse into Fuse Box.

Close lid after replacing Fuse



Insert 25A Fuse

STEP 16

Once the Step Bars are Installed, perform a function check by opening and closing doors several times, make sure the pedals deploy and retract normally. After cycling the step, tighten all hardware on the board and brackets.

Installation complete.

Note: If pedal does not move, try to 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.