

## iBot® by APS

PART#: PB-A171/A172

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

\*ROCKER PANEL MOUNT

\*TRIMMING/ DRILLING REQUIRED FOR WIRING

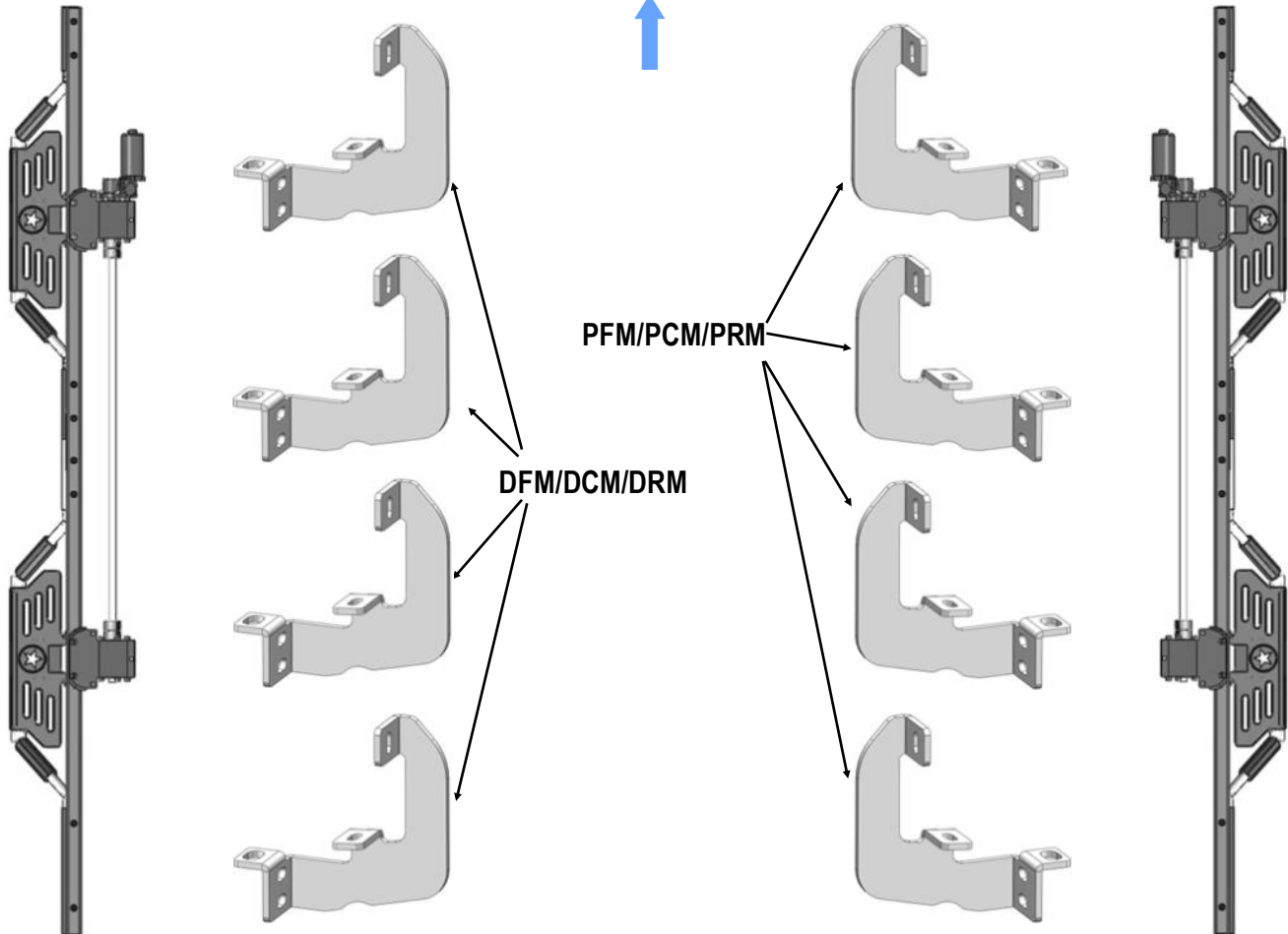
Fastener Size	Tightening Torque (ft-lbs)	Required
6mm	6-7	X
8mm	16-18	√
10mm	31-32	X
12mm	56-58	X
14mm	92-94	X

### PART LIST




Driver Side Step Bar





Front



Passenger Side Step Bar



Mounting Bracket List					
Item	QTY	Description	Item	QTY	Description
1#	4	Driver Side Mounting Brackets (DFM/DCM/DRM)	2#	4	Passenger Side Mounting Brackets (PFM/PCM/PRM)

Hardware Package A (For Brackets Installation)					
Item	QTY	Description	Item	QTY	Description
1#	16	M8X1.25-30mm Hex Bolts	3#	16	M8 Lock Washers
2#	16	M8 Large Flat Washers			
  					
<div>1#</div> <div>2#</div> <div>3#</div>					

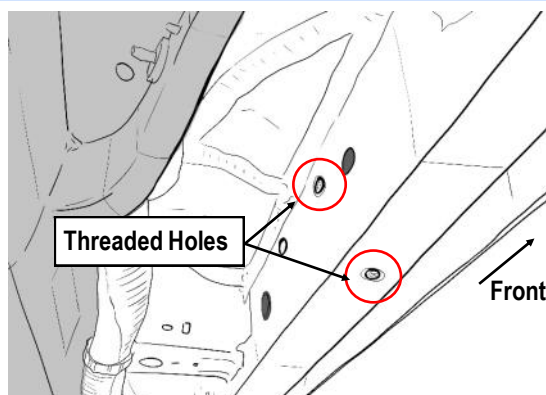
Hardware Package B (For Step Bars Installation)					
Item	QTY	Description	Item	QTY	Description
1#	16	M8X60 Decorative Bolts	3#	24	M8 Large Flat Washers
2#	8	M8X25 Inner Hex Bolts	4#	16	M8 Nylon Flange Lock Nuts
   					
<div>1 #</div> <div>2 #</div> <div>3 #</div> <div>4 #</div>					

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>1 #</div> <div>2 #</div> <div>3#</div>					

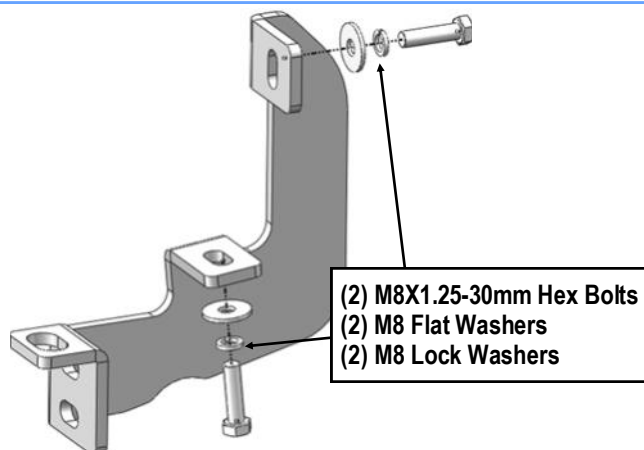
## STEP 1

Start the installation under the driver side of the vehicle. Locate (2) threaded holes on the rocker panel and attach (1) Driver Side Mounting Bracket (**DFM/DCM/DRM**) to threaded holes with (2) M8 Hex Bolts, (2) M8 Lock Washers and (2) M8 Flat Washers. Do not tighten all the way yet. (**Figs 1-2**)

**Note:** All (4) Driver Side Mounting Brackets are universal.



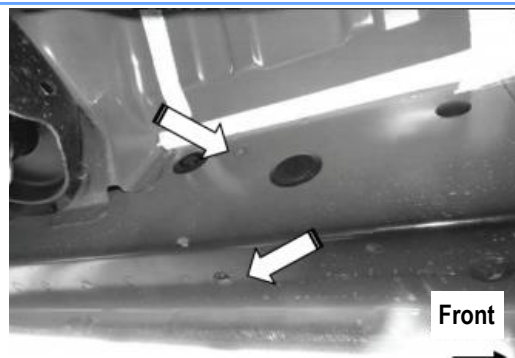
(Fig 1) Driver Side Front Mounting Locations



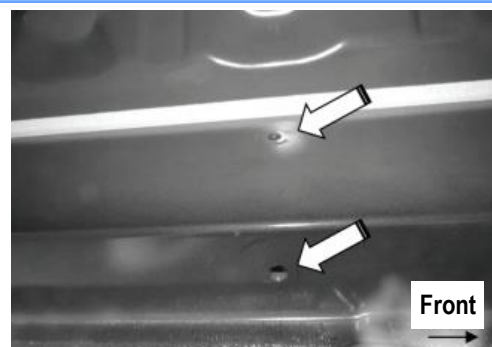
(Fig 2) Driver Front Mounting Bracket Installation

## STEP 2

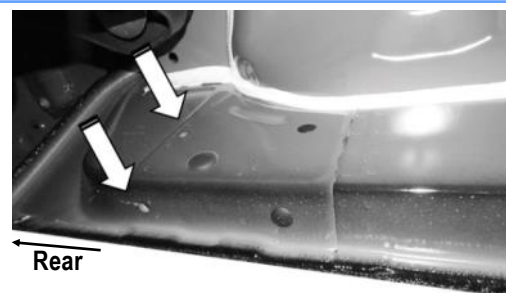
Move to Driver Side 2nd, 3rd and rear Mounting Locations, (**Figs 3-5**). Repeat **Step 1** to install the remaining Driver side Mounting Brackets. Do not fully tighten hardware at this time.



(Fig 3) Driver Side 2nd Mounting Location



(Fig 4) Driver Side 3rd Mounting Location



(Fig 5) Driver Side 4th Mounting Location

## STEP 3

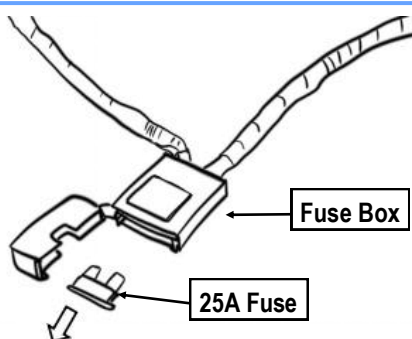
Move to the Passenger Side, repeat Step 1-2 to install Passenger Side Mounting Brackets (**PFM/PCM/PRM**). **Note:** All (4) Passenger Side Mounting Brackets are universal.

On some vehicles, the Passenger Side has large wire conduits running the length of the vehicle frame. These wire harnesses are bendable and can be simply pushed aside when installing the Passenger Side Brackets.

## STEP 4

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 6)

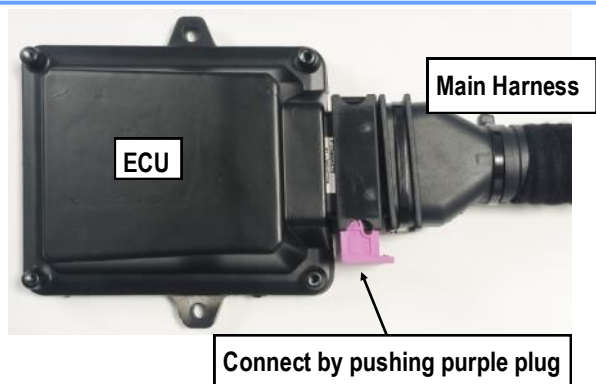
**\*WARNING:** Keeping the fuse connected to the fuse box may result in electrical sparks and risk of shorting when working with the battery.



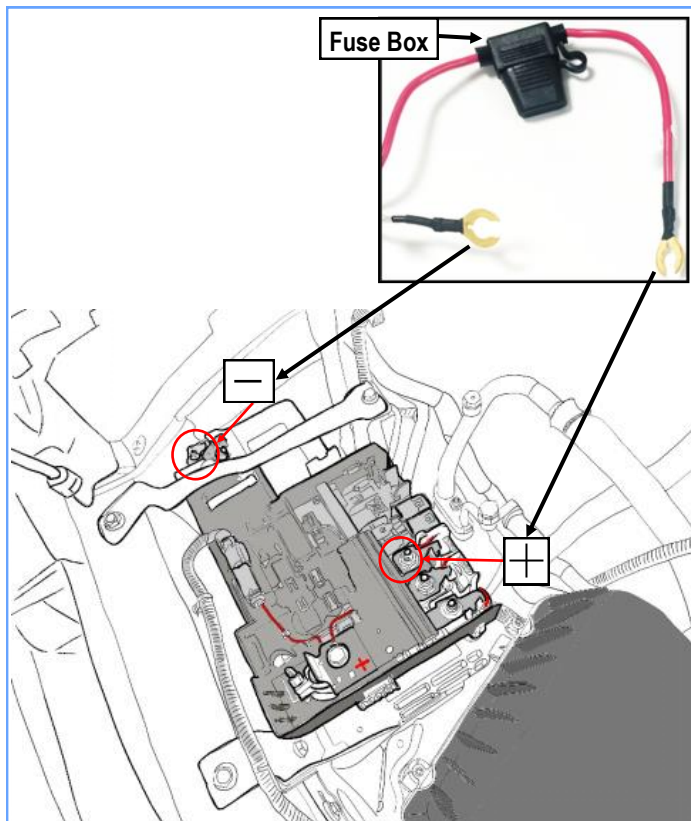
(Fig 6) 25A Fuse and Fuse Box

## STEP 5

Connect the positive power lead on main harness to the positive battery terminal. Connect the negative lead to the negative battery terminal. (Fig 7). Make sure both power leads are fully secured. **Connect the ECU to the main harness. (Fig 8)**



(Fig 8) ECU AND Main harness Connection



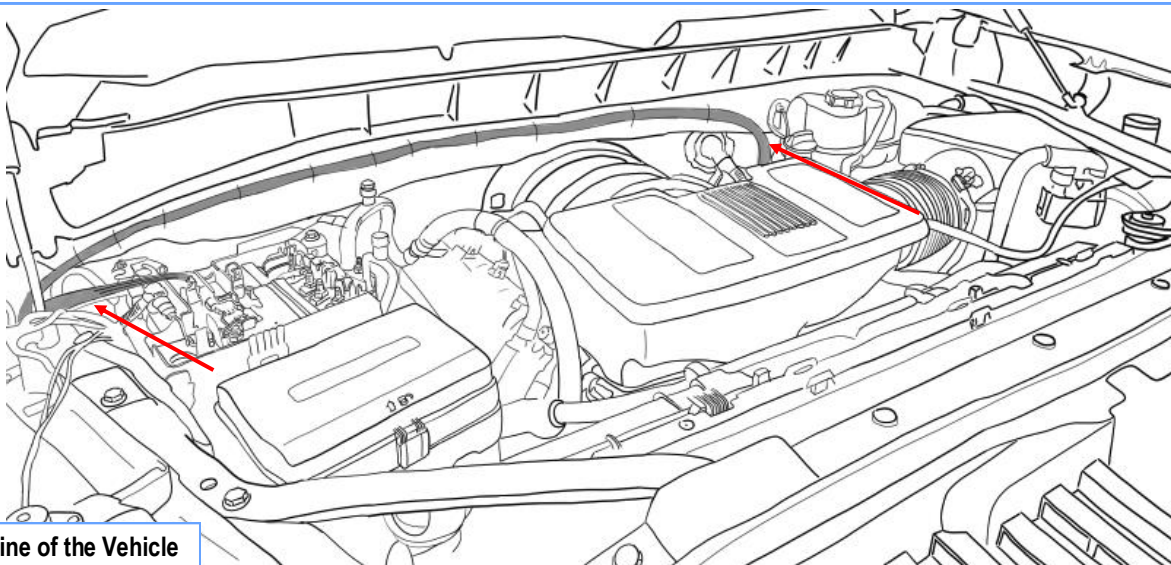
(Fig 7) Positive and Negative Battery Terminals

## STEP 6

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 9).

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





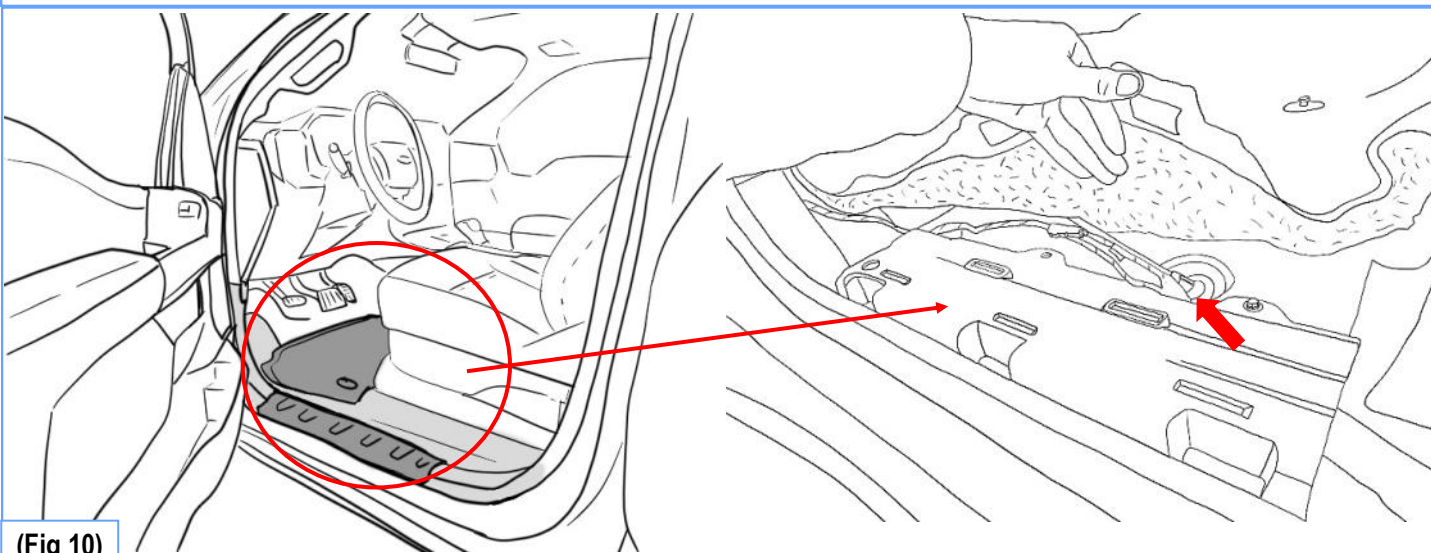
(Fig 9) Front Engine of the Vehicle

## STEP 7

Inside the vehicle cabin, remove the driver-side front kick panel and bottom door sill plate. Peel back the carpet to access the hole where the grommet was removed. Feed the wires through. **(Fig 10).**

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.

If the vehicle is a Silverado 1500 from 2022 onwards or a Silverado 2500 from 2024 onwards, route the signal branch of the main harness through the Passenger side instead of the Driver Side. Poke a hole using a drill or punch through the plastic cap on the underside to feed the wires into the cabin. **(Fig 11).**



(Fig 10)



(Fig 11)

## STEP 8

Determine which technology system the vehicle is normally equipped with using the abridged guide below:

19-21 Silverado/Sierra 1500 & 20-23 Silverado/Sierra 2500-3500 HD = **pre-refresh technology system**

22 Silverado 1500 LTD & 22 Sierra 1500 Limited = **pre-refresh technology system**

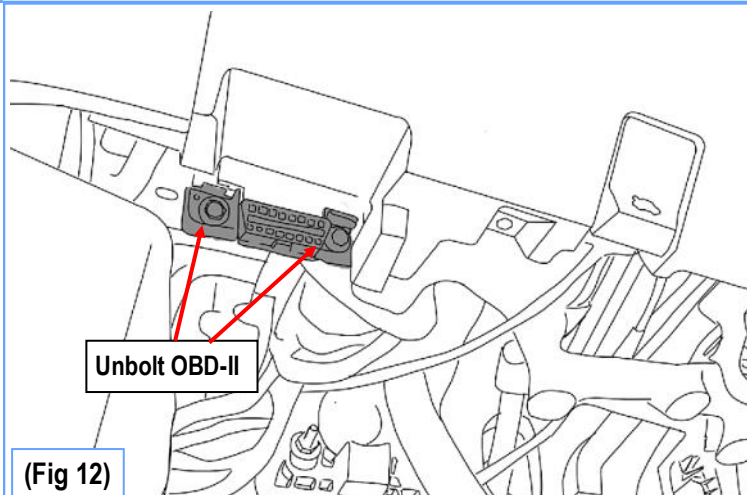
22+ Silverado/Sierra 1500 & 24+ Silverado/Sierra 2500-3500 HD = **post-refresh technology system**

**If the vehicle is equipped with a pre-refresh tech system, follow Part A. If the vehicle is equipped with a post-refresh tech system follow Part B instead.**

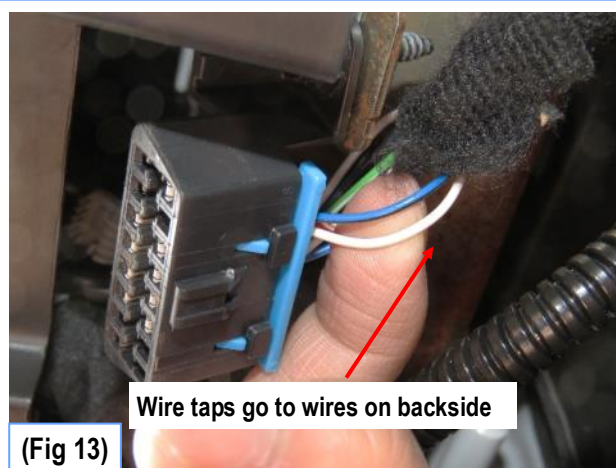
**Part A:** Confirm the technology system of the vehicle. Locate the OBD-II Port under the steering wheel, near the front hood release lever. Unbolt the two bolts using a socket for easier access to the rear side of the plug. (Fig 12)

Connect the High and Low wires from the main harness using wire taps. Identify wires from back of the OBD-II Connector. (Figs 13-15)

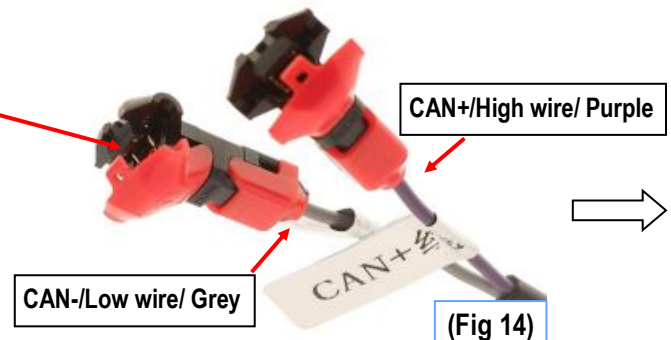
After successfully connecting the wires, return the module back into its place, tighten the previously removed nuts, and check that it is secure on the bracket.



(Fig 12)



(Fig 13)

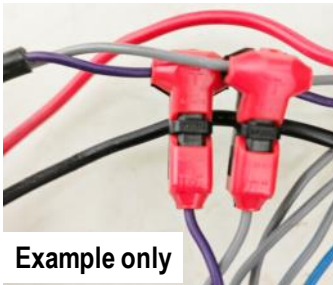


**Insert Vehicle Data Line Here and Tighten**

**CAN-/Low wire/ Grey**

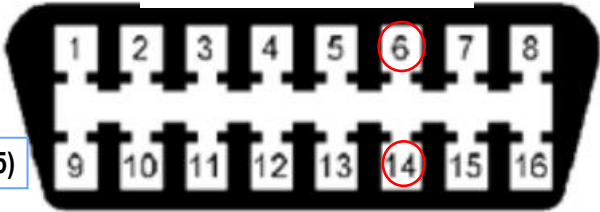
**CAN+/High wire/ Purple**

**(Fig 14)**



**Example only**

**OBD-II Connector Pin Layout**



**(Fig 15)**

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

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

**Part B:** Confirm the technology system of the vehicle. Under the glove compartment on the Passenger Side, locate the radio module. On some models, the underside shield may have to be removed to access the components below the glove compartment. **(Fig 16-19)**.

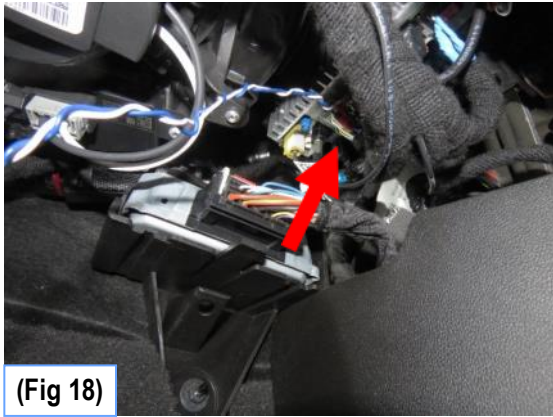
Determine the kind of radio that is installed by looking at the color of the two main connectors that are plugged in.

If your radio has a GREEN and GREY plug, then follow step B-1.

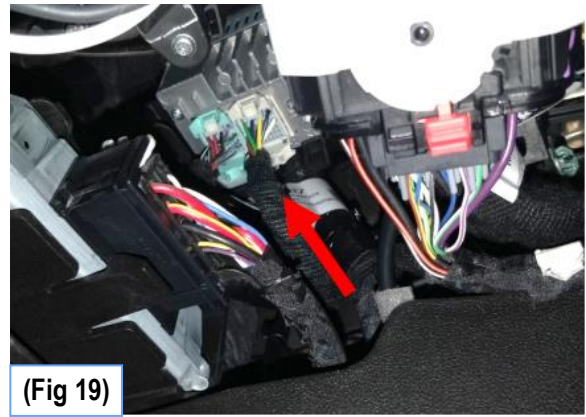
If your radio has a BLACK and GREY plug, follow step B-2.







(Fig 18)



(Fig 19)

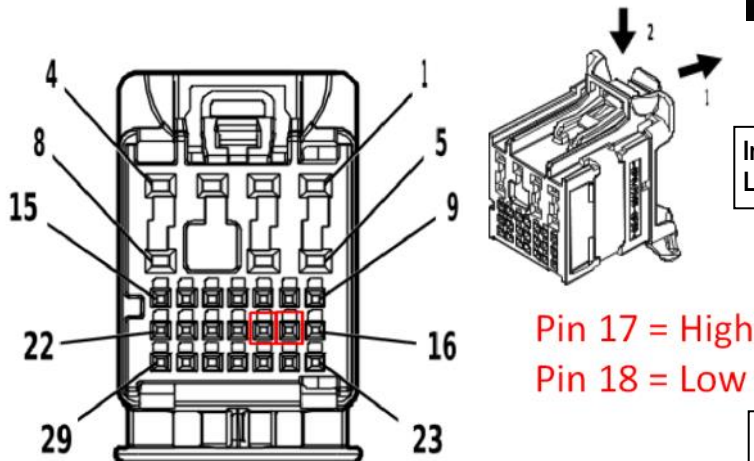
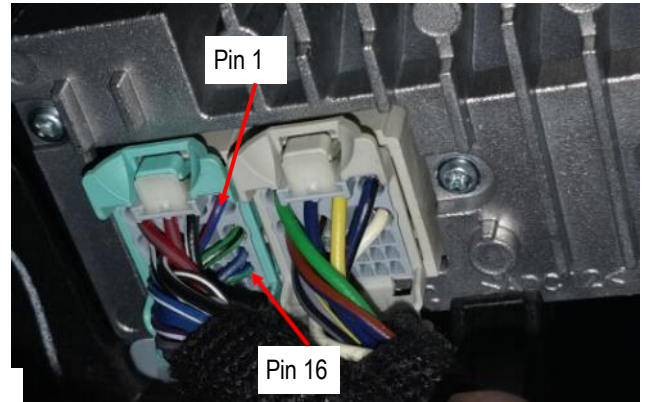
## Part B-1:

Connect the High and Low wires from the main harness using 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.

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.

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

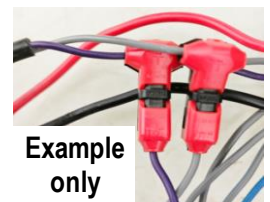
**NOTE:** On some vehicles, the positions of the Green and Grey plugs may be reversed.



Insert Vehicle Data Lines Here and Tighten

CAN+/High wire/ Purple

CAN-/Low wire/ Grey

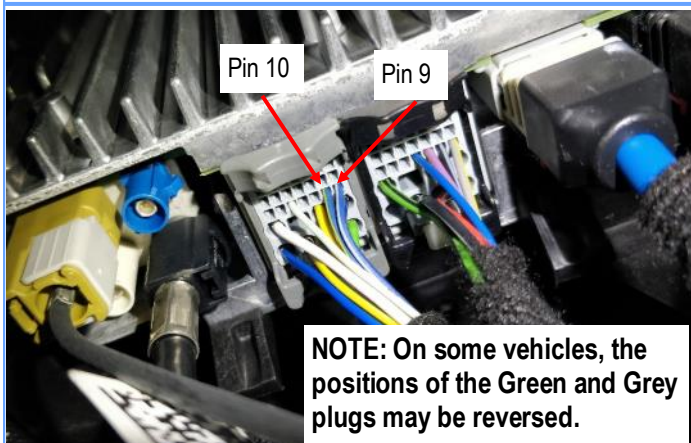




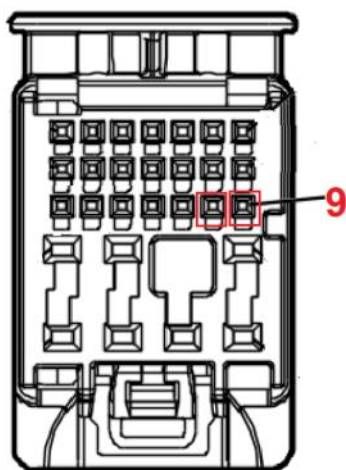
## Part B-2:

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, tighten the previously removed nuts, and check that it is secure on the bracket.

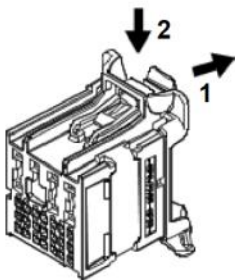
After successfully connecting the wires, return the module back into its place, tighten the previously removed nuts, and check that it is secure on the bracket.



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



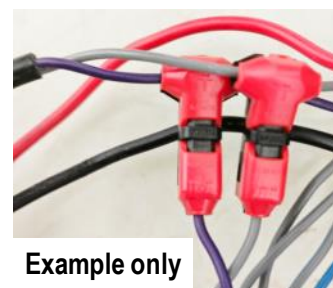
Pin 9 = High  
Pin 10 = Low



Insert Vehicle Data Lines Here and Tighten

CAN+/High wire/ Purple

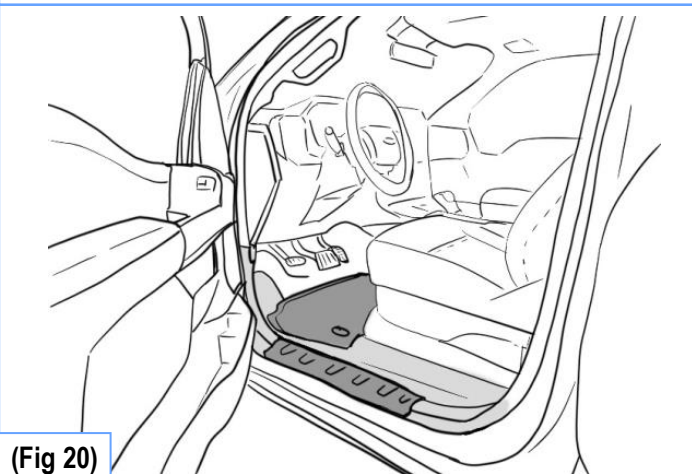
CAN-/Low wire/ Grey



## STEP 9

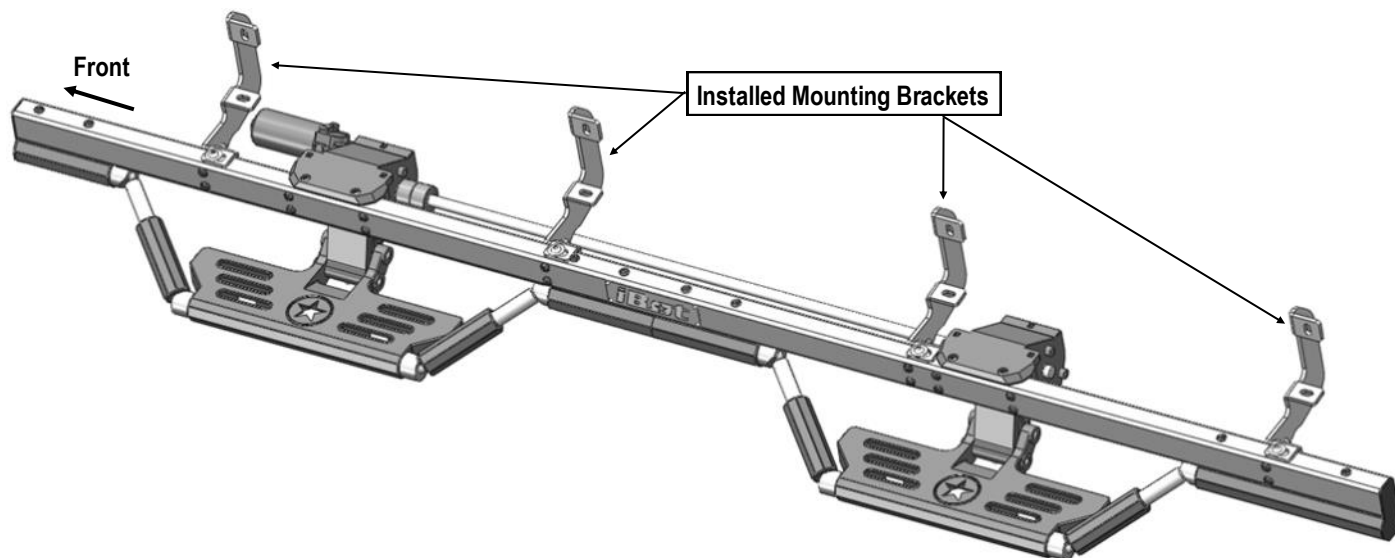
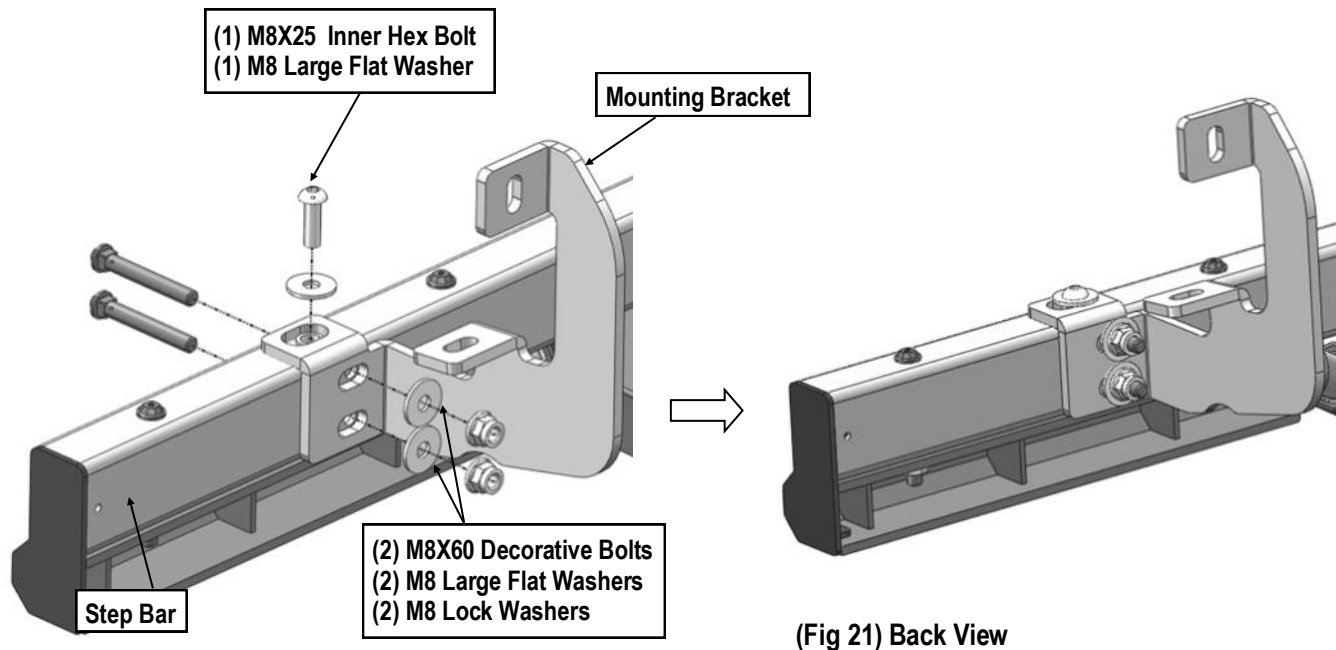
Seal the grommet with RTV Silicone Sealant.

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 20)**



## STEP 10

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, **(Fig 21)**. Properly level and adjust the Step Bar and fully tighten all hardware. Repeat for Passenger side Power Step Installation.



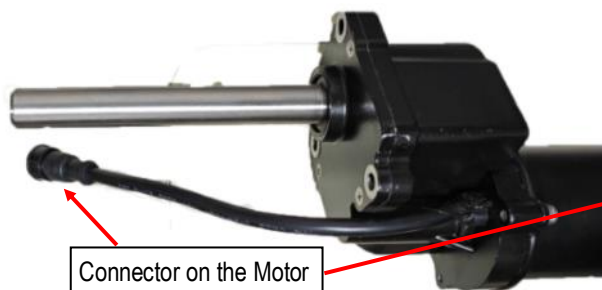
(Fig 22) Driver Side Step Bar Installation

## STEP 11

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



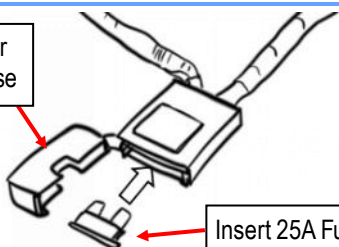
Left (Driver Side) and Right (Passenger Side) Connectors on main harness



## STEP 12

Re-place Fuse into Fuse Box.

Close lid after replacing Fuse



Insert 25A Fuse

## STEP 13

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.