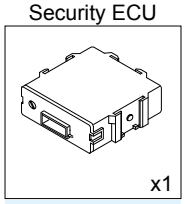
Part #: PT398-52121

Conflicts: Do not install into Vehicles with Factory Alarm System.

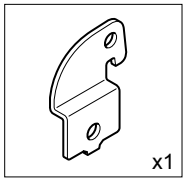
Kit Contents

Security ECU

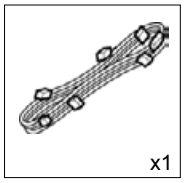


PT398-21100

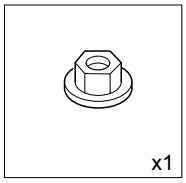
Security ECU Bracket



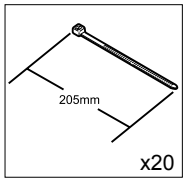
V5 Harness



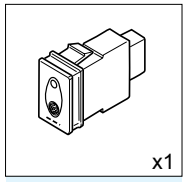
M6 Nut



Wire Tie



Status Monitor



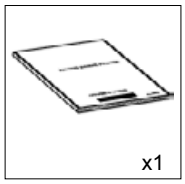
PT398-00070-CM

V5 Window Label



00107-VIPWS

V5 Owner's Guide



Service Part #'s

Additional Items

(may be required)

Item#	Description

Recommended Sequence of Application

Item#	Description

Recommended Tools

Personal & Vehicle Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
Special Tools	
Striker Tool	CAD-E IADS P/N ALL 02-016-01
Installation Tools	
Pick Tool	
Screwdriver	#2 Phillips, Flat Blade Jeweler's
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST# 00002-06001-01
Side Cutters	
Torque Wrench	Battery: 48 in•lbf (5.4 N•m), Driver's Knee Airbag: 88.5 in•lbf (10 N•m) Ground Bolt: 74 in•lbf (8.4 N•m)
Tape	Clear, Electrical
Ratcheting Wrench	
Socket	10mm, Extension
Special Chemicals	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

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6. Complete the Installation. 20
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3. Vehicle Function Checks 23

Legend

- Do not proceed until process has been completed.
- Follow steps carefully to avoid damaging the Vehicle or Accessory
- Use caution to avoid injury.
- Used in Figures to call attention to specific tools recommended for the process.
- Highlights a change in installation with respect to previous issue.
- Indicates that torque is related to safety.
- Video available; click to play.
- Wire Tie location and number.

Accessory Installation Practice (read before installation)

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the “Accessory Installation Practices” document.

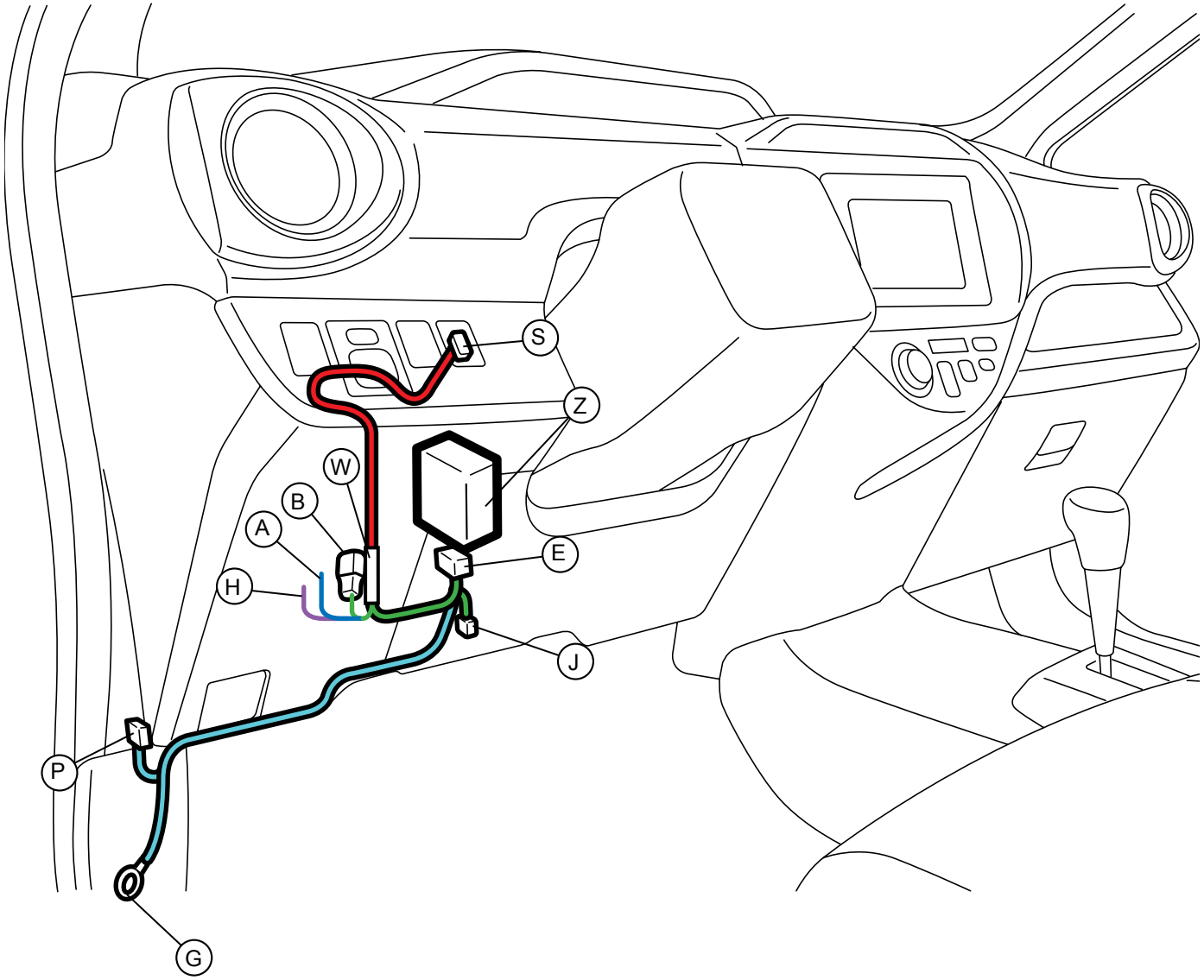
This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.)
- Safety (eye protection, checking torque procedure, etc.)
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.)
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)

Please see your TOYOTA dealer for a copy of this document.

TOYOTA Prius C with Smart Key RS3200 Plus

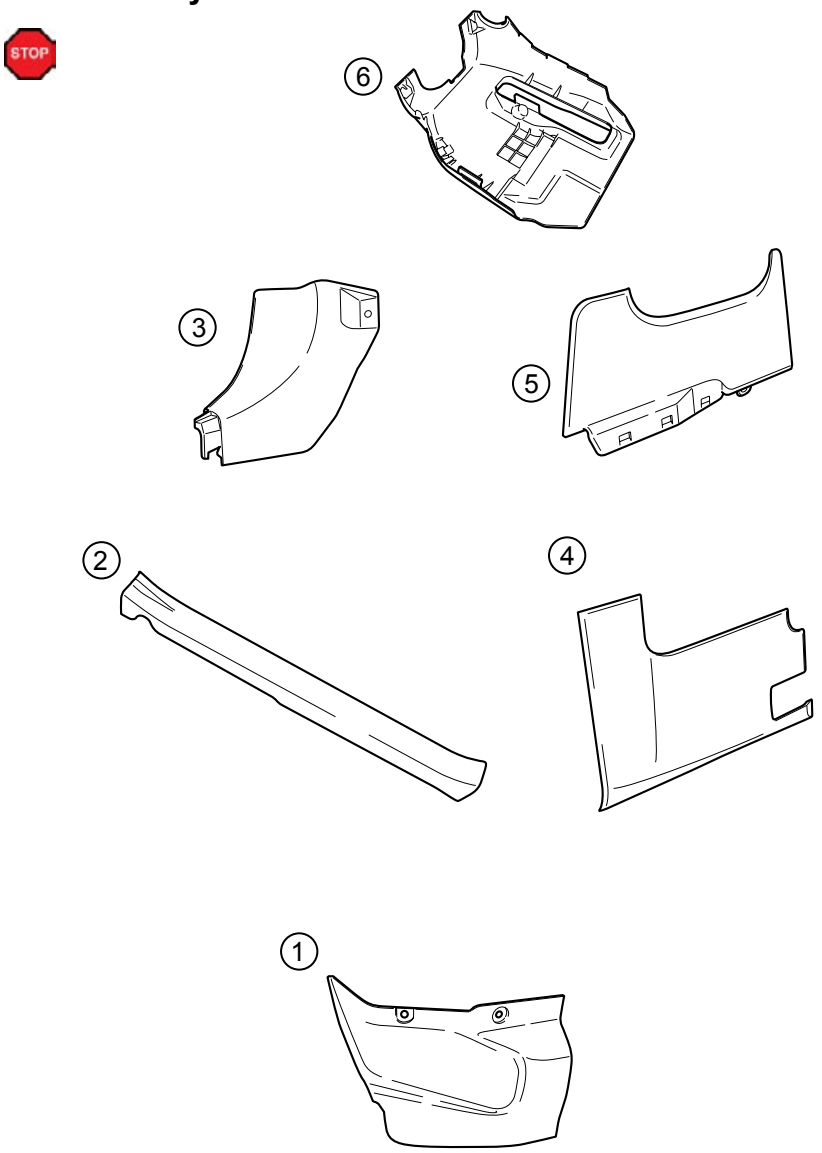
Wire Harness Outline*



TVIP	Vehicle	Description
A	3C	Blue Wire Terminal
B	–	5P White
E	–	24P White *(for Security ECU)*
G	G2	Ground Terminal
H	3C	Purple Wire Terminal
J	–	1P White
P	G70	5P White
S	–	4P Black
W	–	White Tape Marker
Z	–	Security ECU

***Color of Harness on Overview corresponds with Colored Tape near Connectors on Harness.**

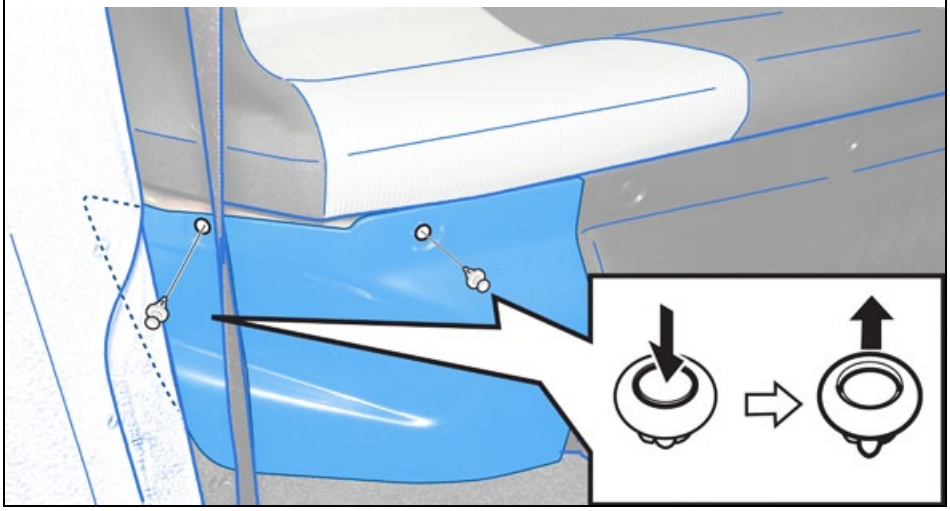
Disassembly Overview



1	PS Rear Seat Under Cover
2	DS Step Cover
3	DS Cowl Cover
4	Lower Dash Cover
5	DS Knee Airbag (Do not disconnect Airbag connectors)
6	Lower Steering Column Cover

STOP Disconnect all Corresponding Connectors.

Nylon Panel Removal Tool Fig. 1-1



1. Vehicle Disassembly.

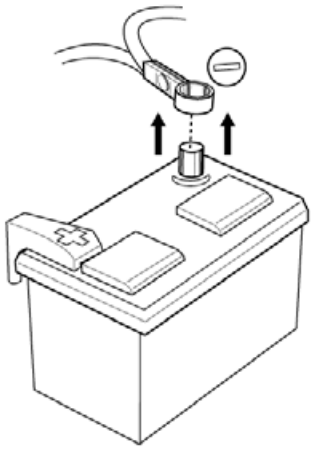
a. Place the Vehicle in Park with the Parking Brake set.

b. Make sure that the Short Pin is not installed.

c. Remove the Passenger's Side Rear Seat Under Cover.

- Remove 2 Clips.

10mm Socket, Ratcheting Wrench Fig. 1-2

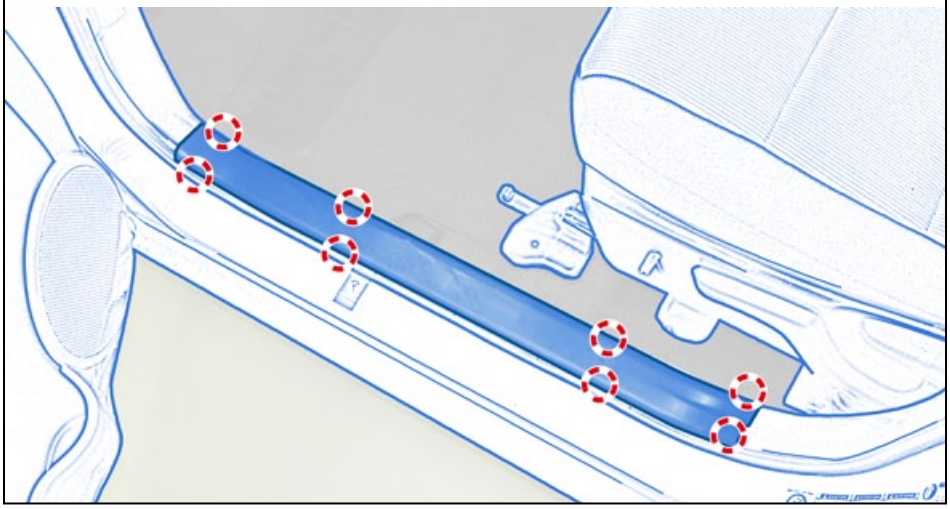


d. Disconnect the Negative Battery Terminal.

- Note the Battery Cable Position as it will be re-installed in the same position.

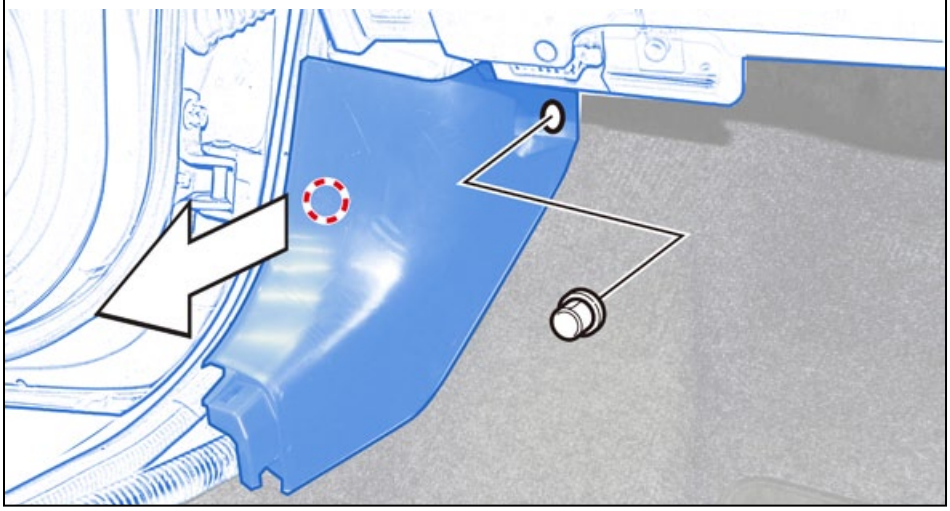
CAUTION: Do not touch the Positive Terminal.

Nylon Panel Removal Tool Fig. 1-3



e. Remove the Driver's Side Step Cover.

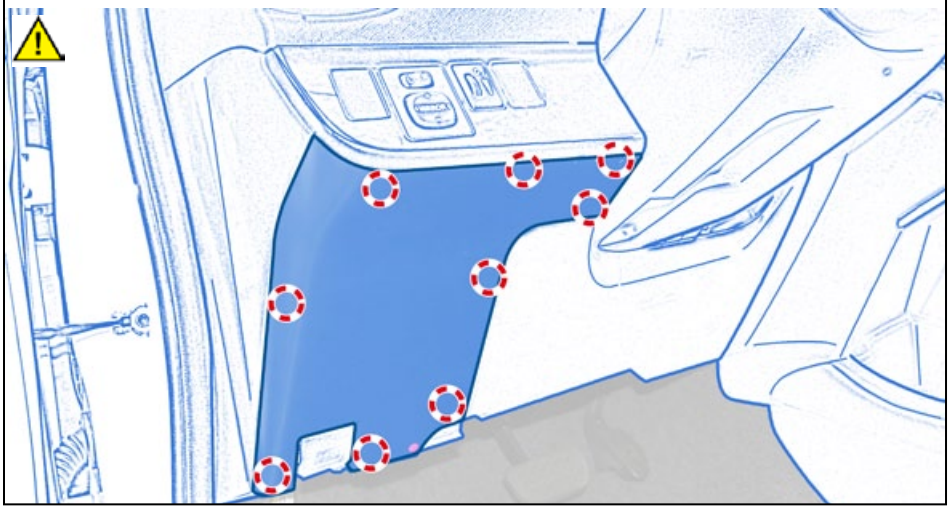
Nylon Panel Removal Tool Fig. 1-4



f. Remove the Driver's Side Cowl Cover.

- Remove 1 Nut.

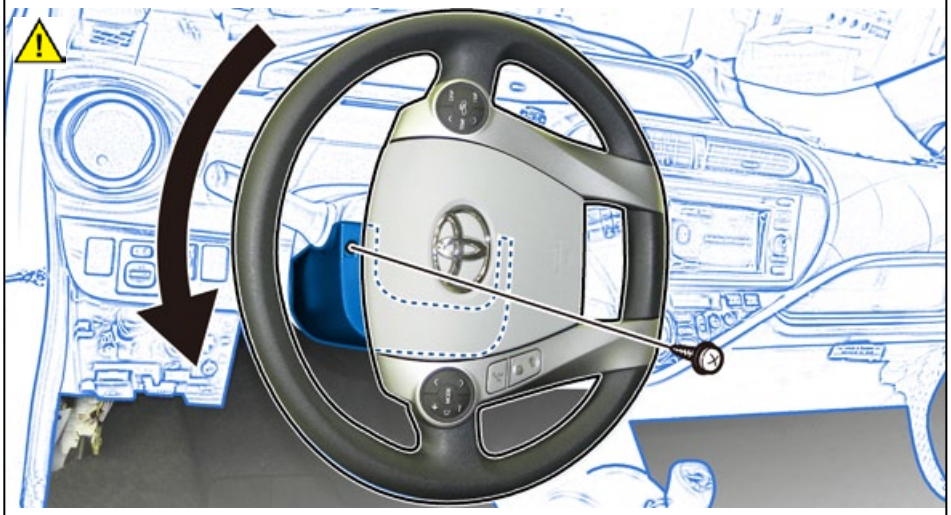
Nylon Panel Removal Tool Fig. 1-5

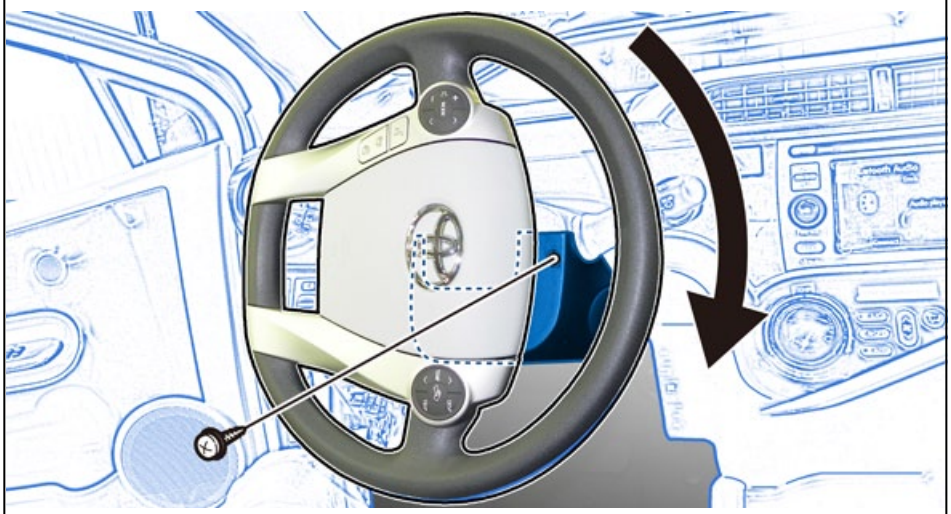


g. Remove the Lower Dash Cover.

CAUTION: To avoid damage, disengage clips from the bottom first and work upwards.

Phillips Screwdriver Fig. 1-6

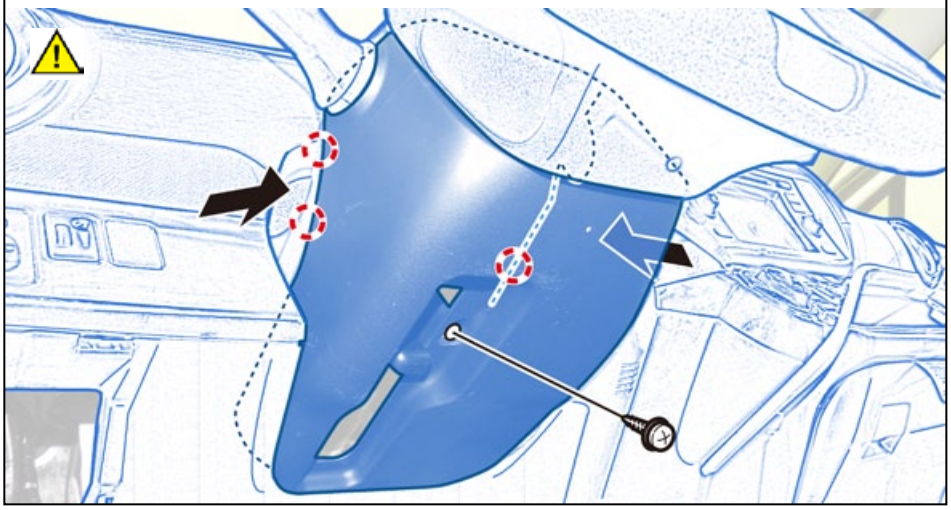




h. Remove 2 screws securing the Lower Steering Column Cover.
   - Turn the steering wheel left and right to gain access to 2 screws.

CAUTION: Use tape to protect the Steering Wheel.

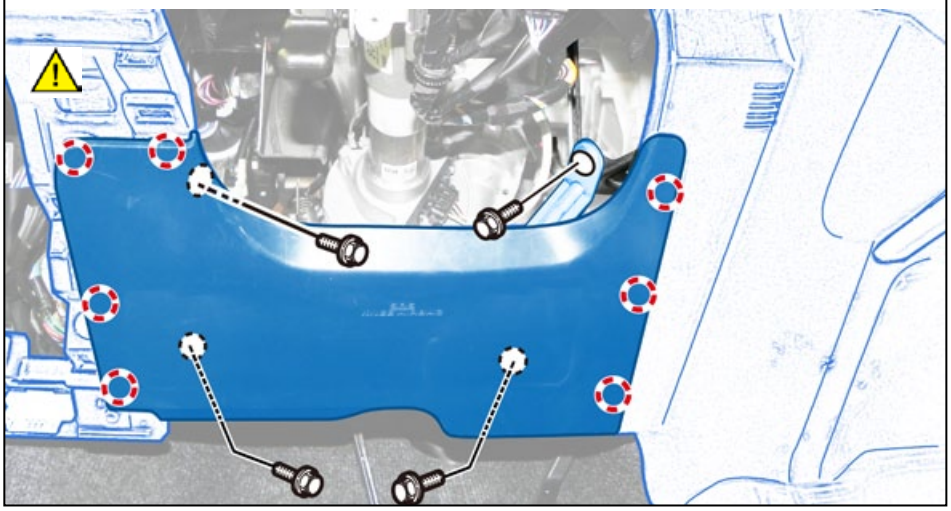
Phillips Screwdriver, Nylon Panel Removal Tool Fig. 1-7



i. Remove the Lower Steering Column Cover.
   - Remove 1 Screw.

CAUTION: Apply pressure between the clip locations, on both sides, of the lower steering cover to disengage clips.

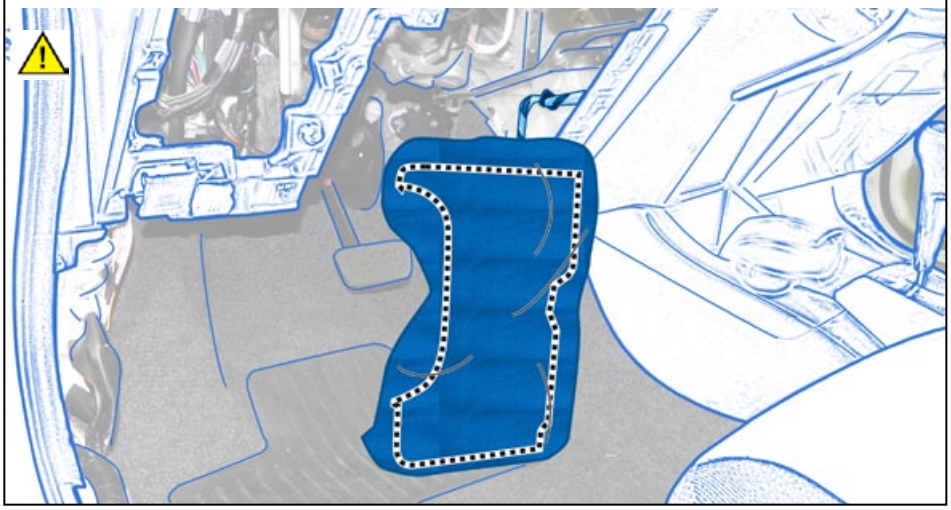
10mm Socket, Extension Fig. 1-8



j. Dislodge the Driver's Knee Airbag carefully.
   - Remove 4 Bolts.

CAUTION: Do not disconnect the Vehicle's Connector.

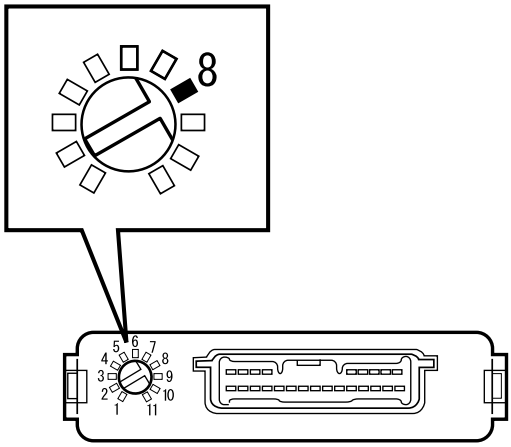
Fig. 1-9



k. Wrap the Airbag in a Blanket or the like as shown.

CAUTION: Prevent stress on the Airbag Wire.

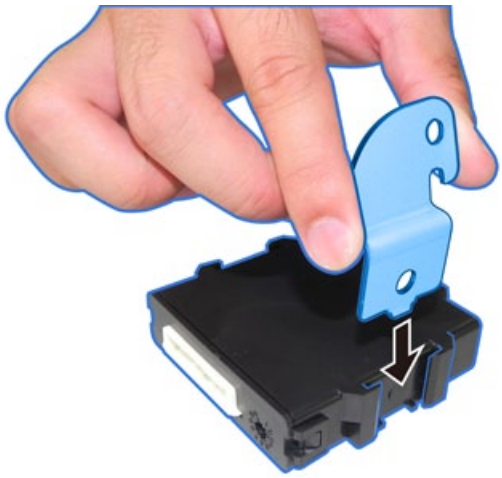
Flat blade Jeweler's Screwdriver Fig. 2-1



2. V5 ECU Preparation and Installation.

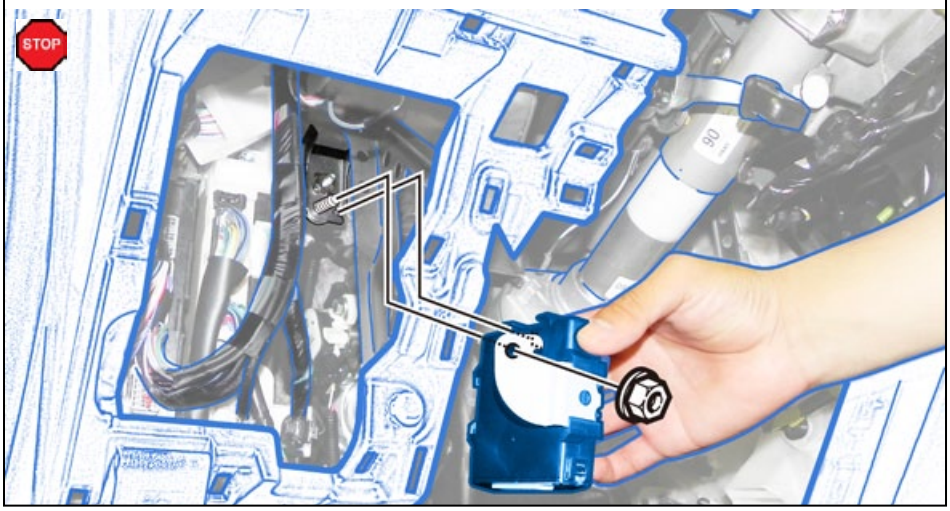
a. Set the GBS Sensitivity Value to "8."

Fig. 2-2



b. Attach the Security ECU Bracket to the Security ECU.

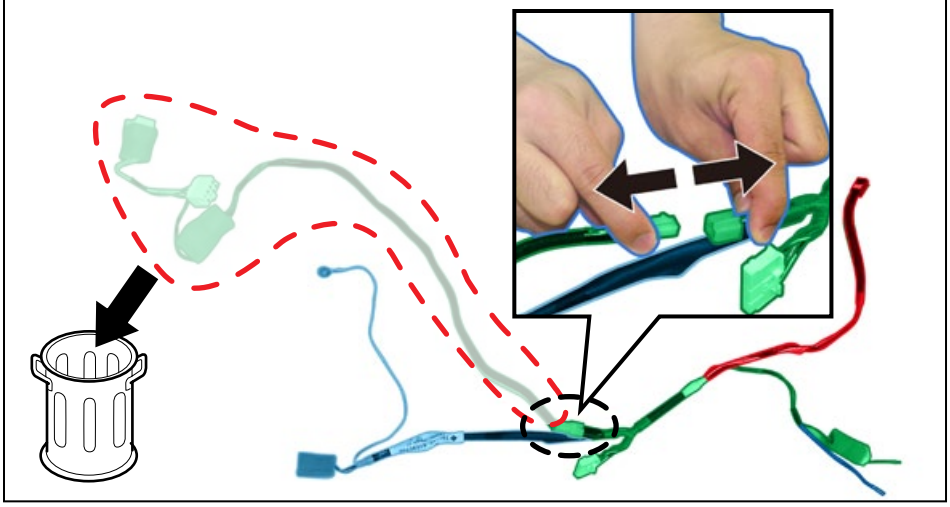
10mm Socket, Extension Fig. 2-3



c. Install the Security ECU using the supplied Nut.

STOP **NOTE:** Make sure the Guide Pin is seated correctly and verify that the Nut is tightened securely.

Fig. 3-1

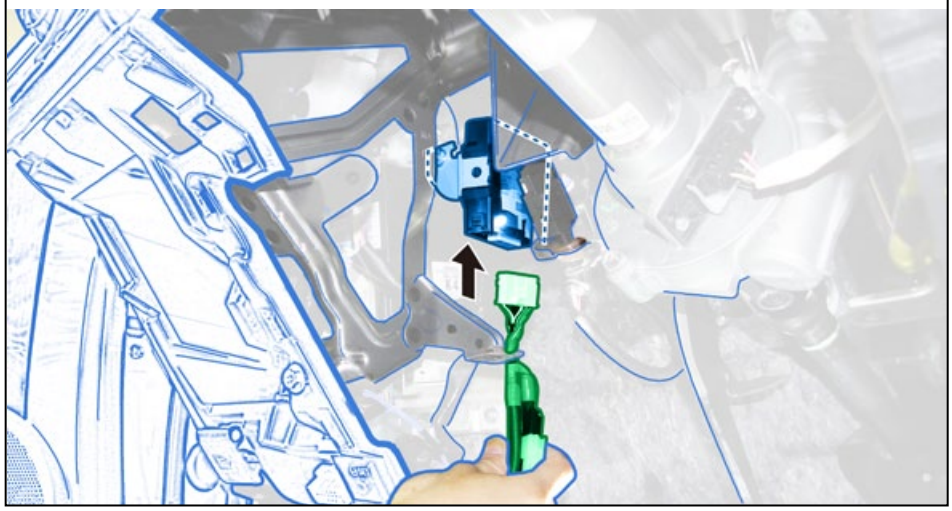


3. V5 Harness Installation.

a. Locate and disconnect the White 1P Connectors on the V5 Harness.

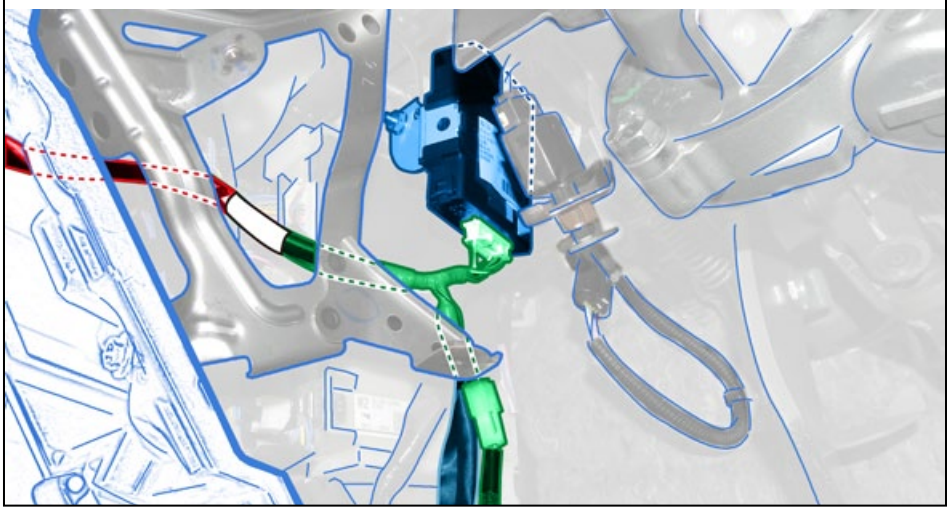
- Discard the White 1P Female Connector's Harness.

Fig. 3-2



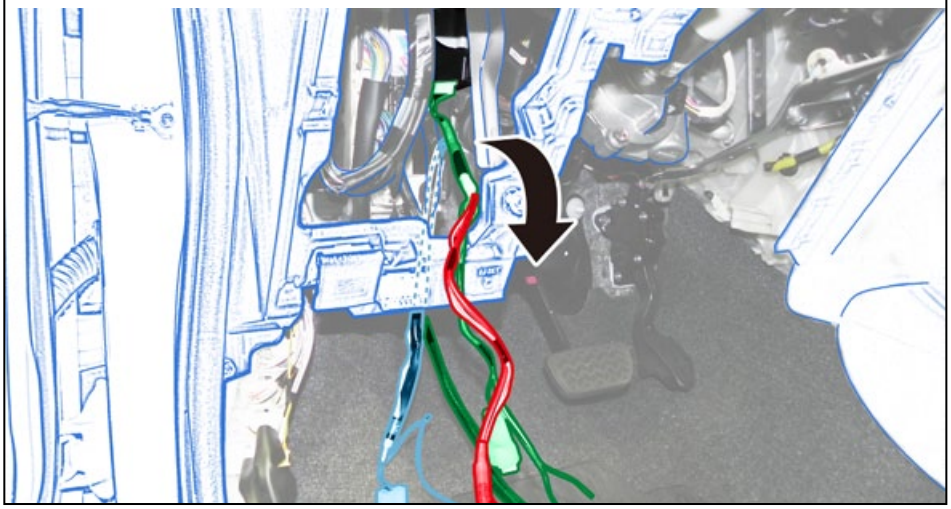
b. Connect the V5 Harness's White 24P Connector to the Security ECU.

Fig. 3-3



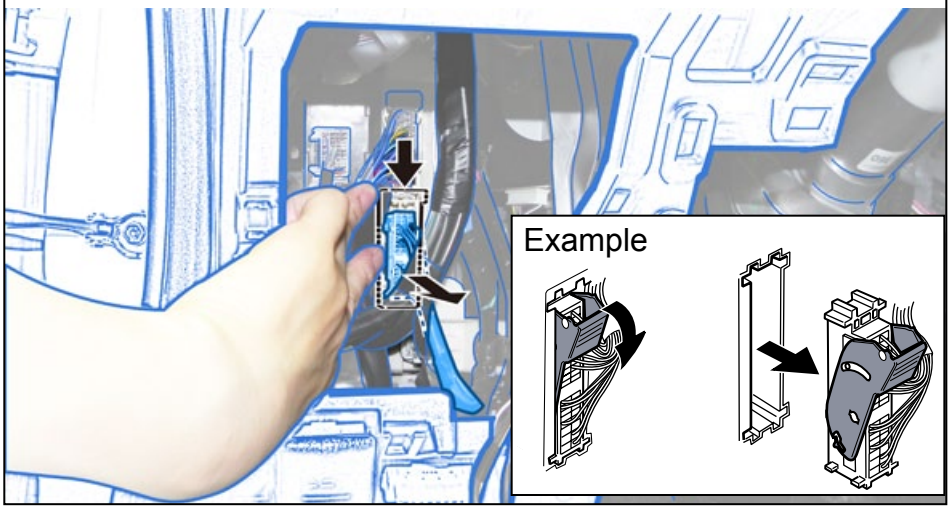
c. Route the V5 Harness's White Tape Marker toward the Lower Dash Cover area.

Fig. 3-4



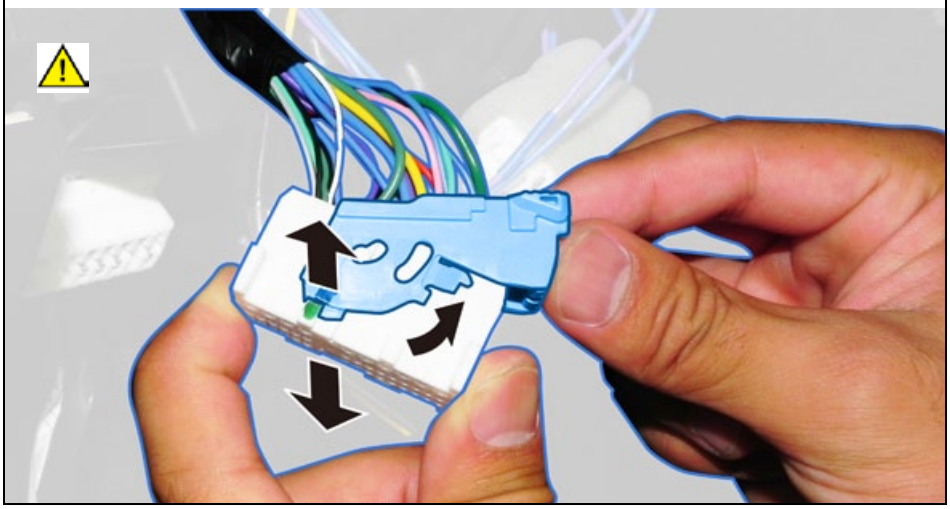
d. Route the V5 Harness's White Tape Marker toward the Lower Dash Cover area.

Fig. 3-5



e. Disconnect the Vehicle's White 40P Connector from the Connector Block.
   - Release the Connector's Gray Lever.

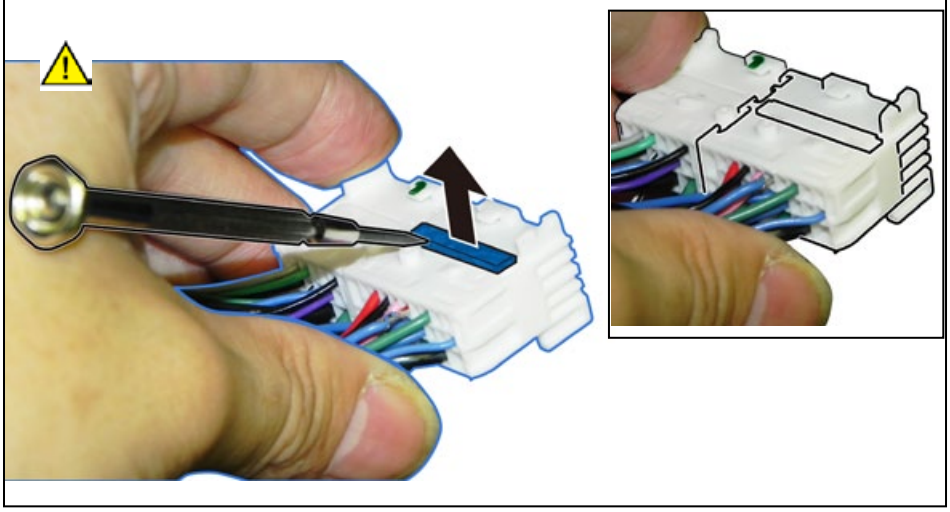
Flat blade Jeweler's Screwdriver Fig. 3-6



f. Remove the Connector's Gray Lever.
   - Release the lock on both sides of 40P Connector.

CAUTION: Do not force the Lever.

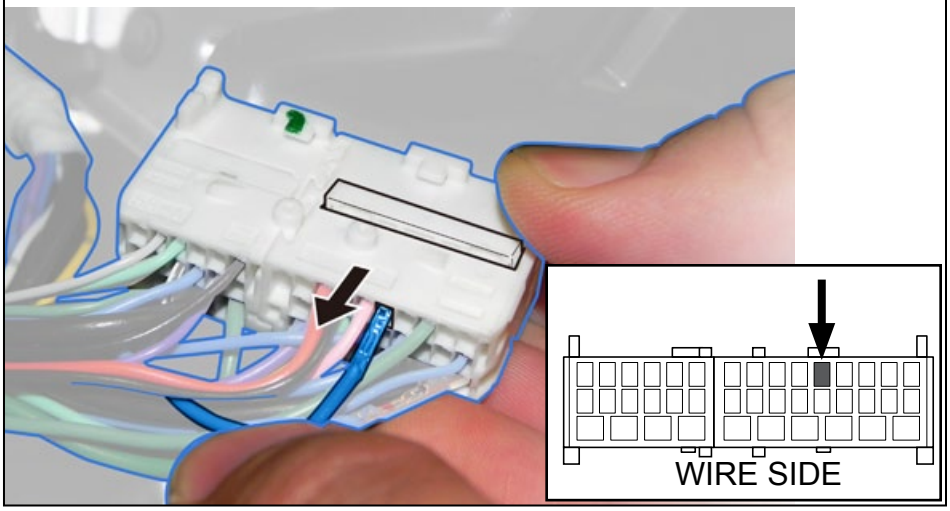
Flat blade Jeweler's Screwdriver, Pick Tool Fig. 3-7



g. Lift the Terminal Retainer Clip of the 40P Connector.

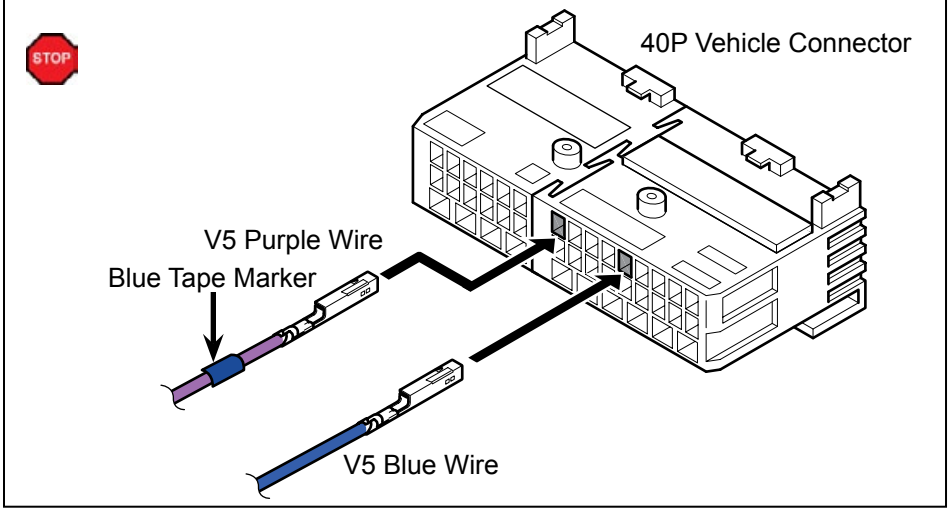
CAUTION: Do not pull out the Retainer Clip.

Pick Tool Fig. 3-8



h. Pull out the Vehicle's Blue Wire Terminal from the indicated location on the 40P Vehicle Connector.

Fig. 3-9



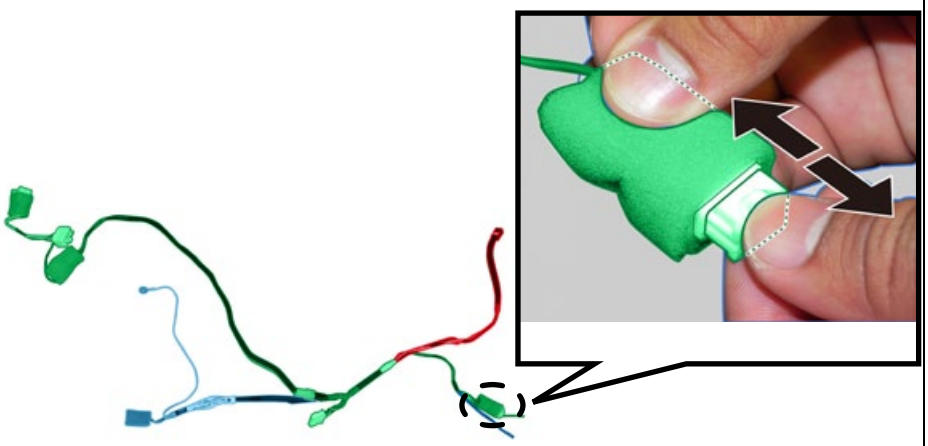
i. Insert the V5 Blue Wire Terminal into the indicated location on the 40P Vehicle Connector.

j. Insert the V5 Purple Wire Terminal into the indicated location on the 40P Vehicle Connector.

VERIFY: That Terminal Pins are properly inserted and do not come out.

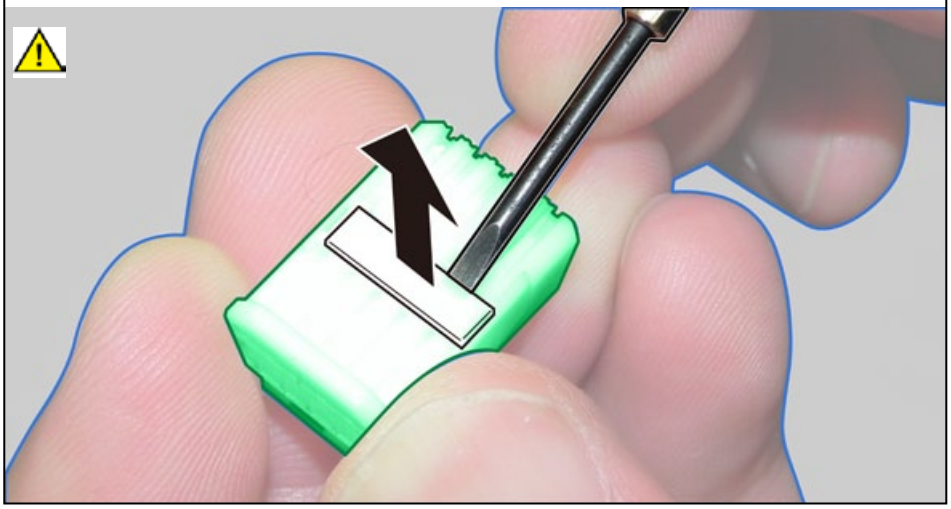
k. Close the Terminal Retainer Clip.

Fig. 3-10



l. Disconnect the Empty V5 White 5P Connector from the V5 Harness.

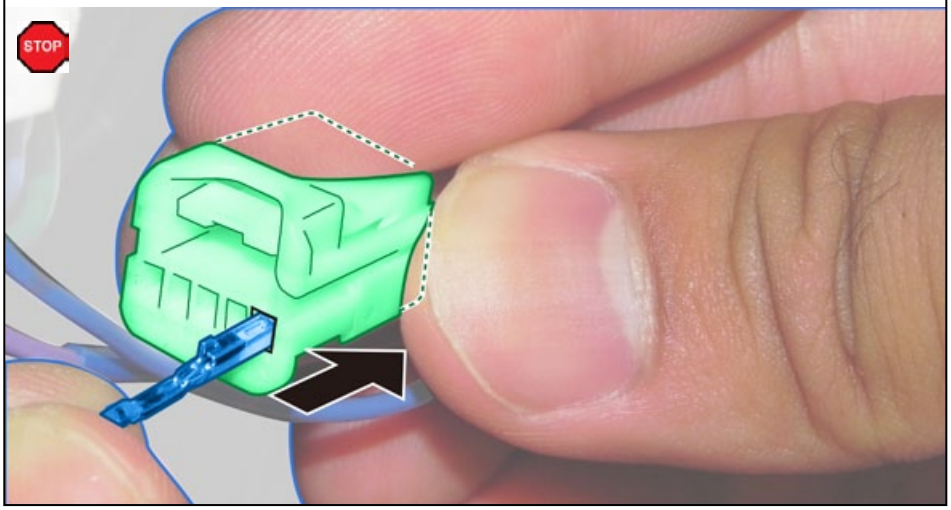
Flat blade Jeweler's Screwdriver, Pick Tool Fig. 3-11



m. Lift the Terminal Retainer Clip.

CAUTION: Do not pull out the Retainer Clip.

Fig. 3-12

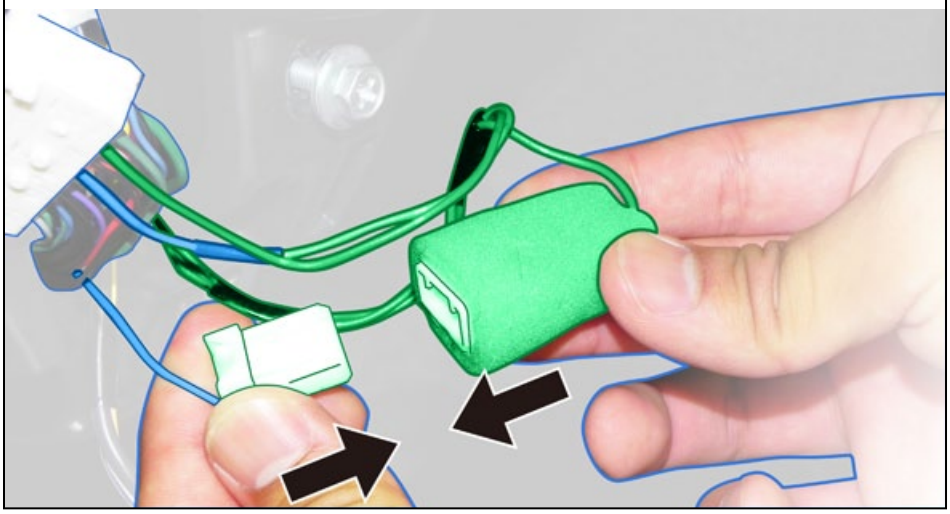


n. Insert the Vehicle's Blue Wire Terminal that was pulled out from the 40P Vehicle Connector into the indicated location on the Empty White V5 5P Connector.

VERIFY: Terminal Pin is properly inserted and do not come out.

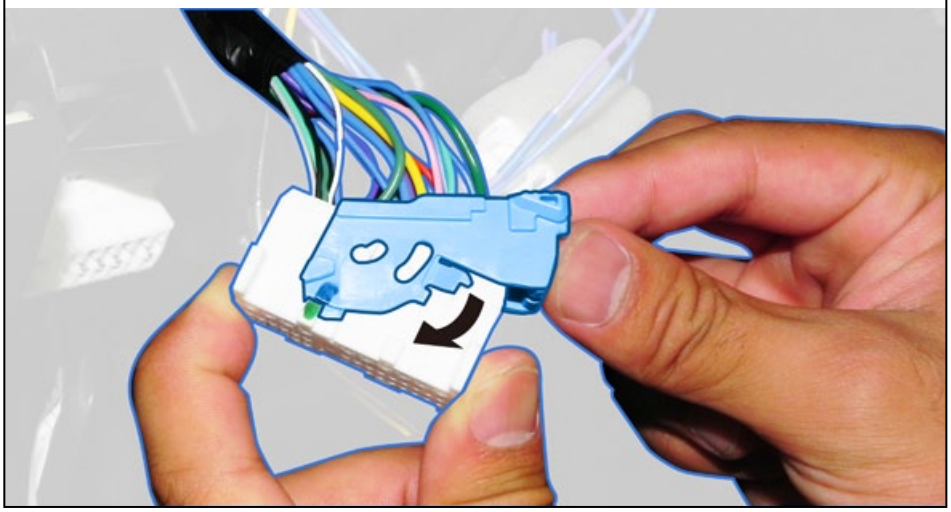
o. Close the Terminal Retainer Clip.

Fig. 3-13



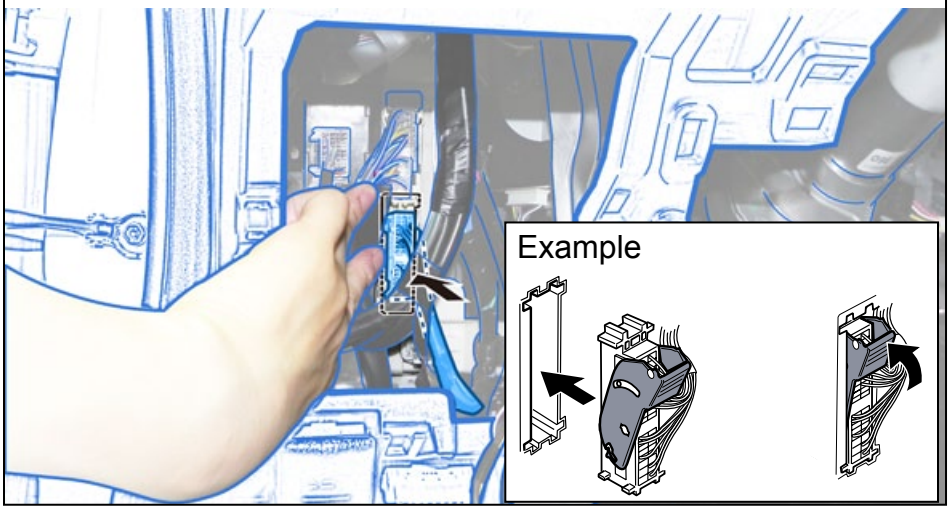
p. Reconnect the V5 White 5P Connector to the V5 Harness's 5P Connector.

Fig. 3-14



q. Re-attach the Vehicle Connector's Lever.

Fig. 3-15



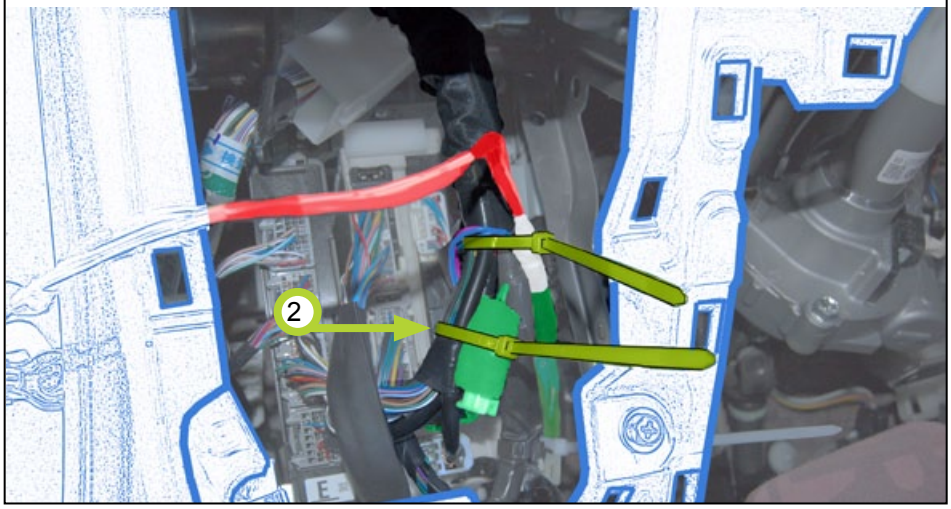
r. Reconnect the Vehicle's White 40P Connector to the Connector Block.

Side Cutters Fig. 3-16



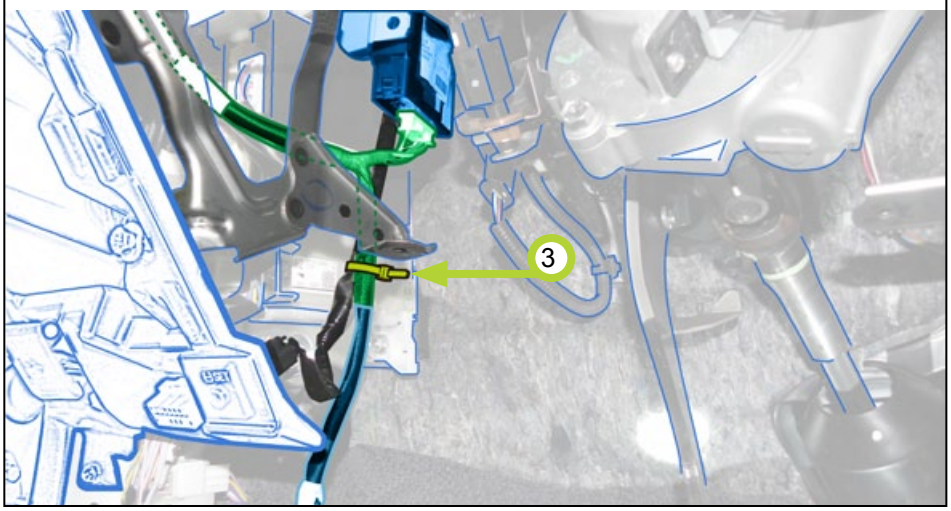
s. Secure the V5 Harness's White Tape Marker to the Vehicle Harness using 1 Wire Tie.

Side Cutters Fig. 3-17



t. Secure the 5P Connectors and the bundled up Blue and Purple Wires to the Vehicle Harness using 1 Wire Tie.

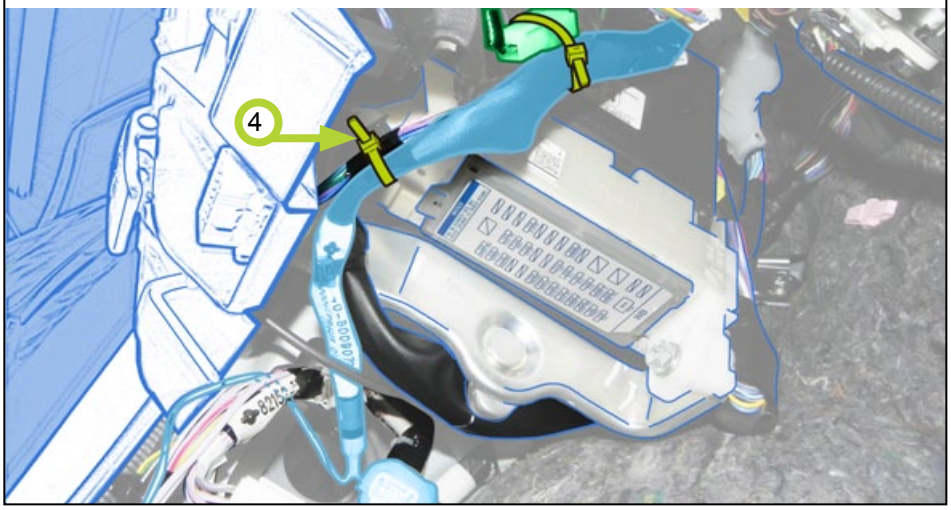
Side Cutters Fig. 3-18



u. Secure the V5 Harness with the V5 1P Connector to the Vehicle Harness using 1 Wire Tie.

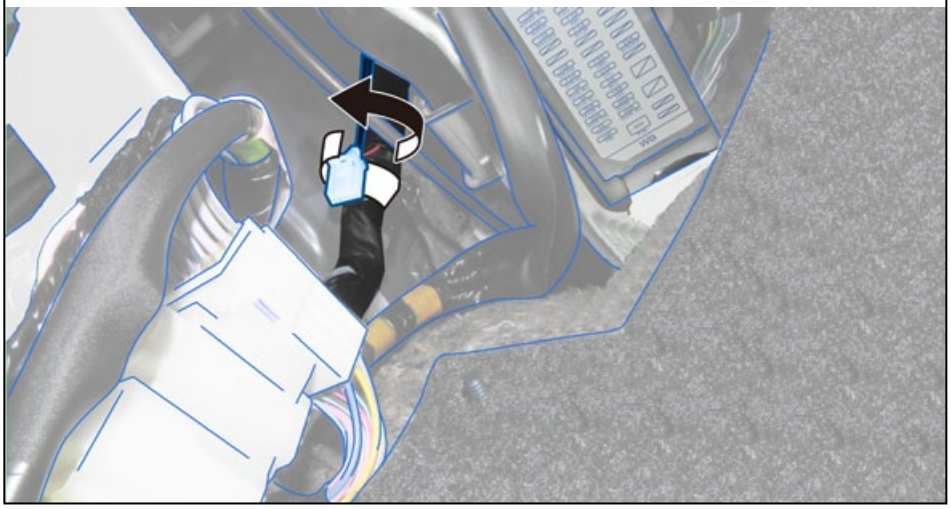
Side Cutters

Fig. 3-19



v. Secure the V5 Harness to the Vehicle Harness using 1 Wire Tie.

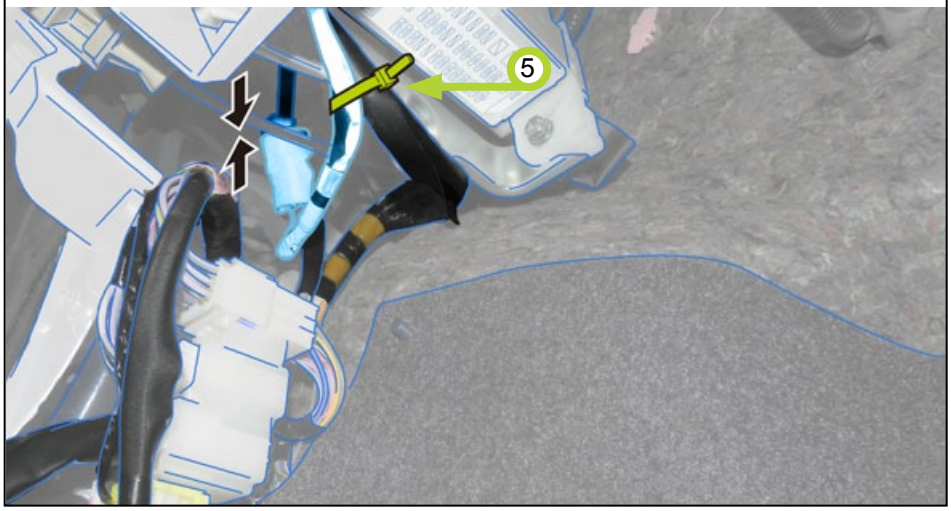
Fig. 3-20



w. Locate and remove the tape securing the Vehicle's White 5P Pre-Connector.

Side Cutters

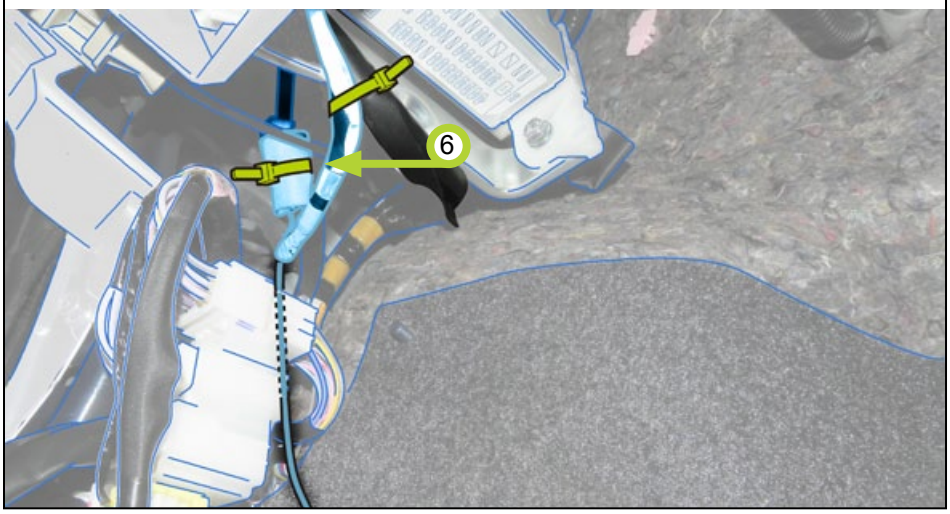
Fig. 3-21



x. Connect the V5 White 5P Connector to the Vehicle's White 5P Pre-Connector.

y. Secure the V5 Harness to the Vehicle's Harness with 1 Wire Tie.

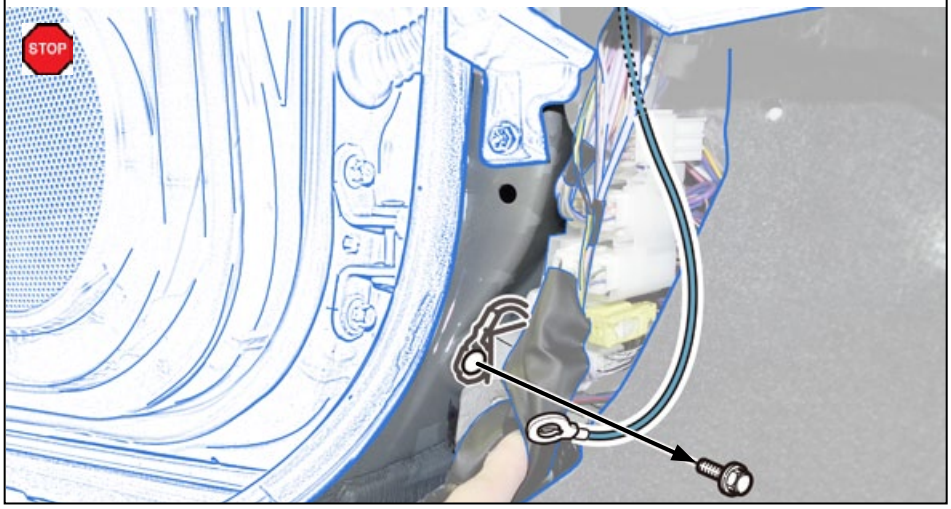
Side Cutters Fig. 3-22



z. Secure the 5P Connectors to the Vehicle Harness using 1 Wire Tie.

aa. Route the V5 ground terminal toward the Driver's Side Cowl area as shown.

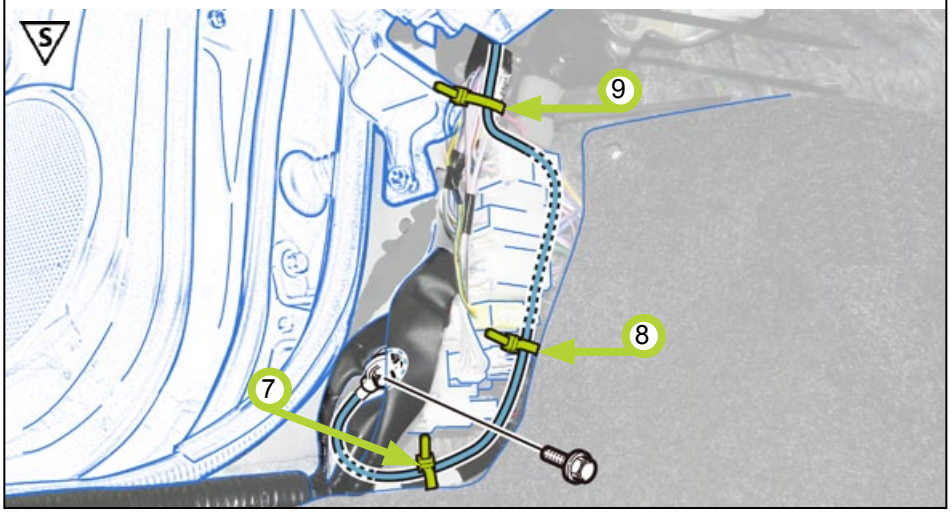
10mm Socket Fig. 3-23



ab. Remove the Bolt from the Vehicle's Ground Terminal.

NOTE: Do not remove the Vehicle's Ground Terminal.

Side Cutters, Torque Wrench Fig. 3-24



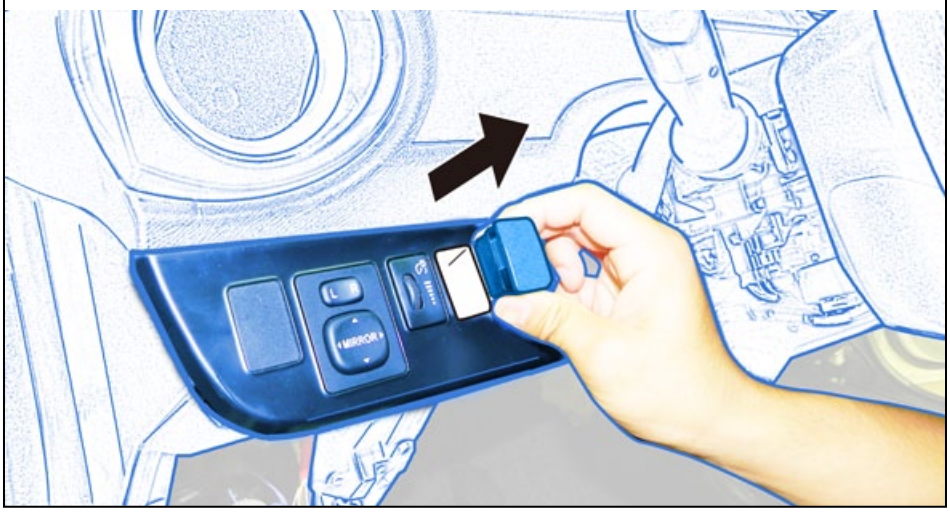
ac. Secure the V5 Ground Terminal to the Vehicle's Ground Terminal using the same Bolt.

Torque: 74 in•lbf (8.4 N•m)

ad. Secure the V5 Harness to the Vehicle Harness using 3 Wire Ties as shown.

Nylon Panel Removal Tool

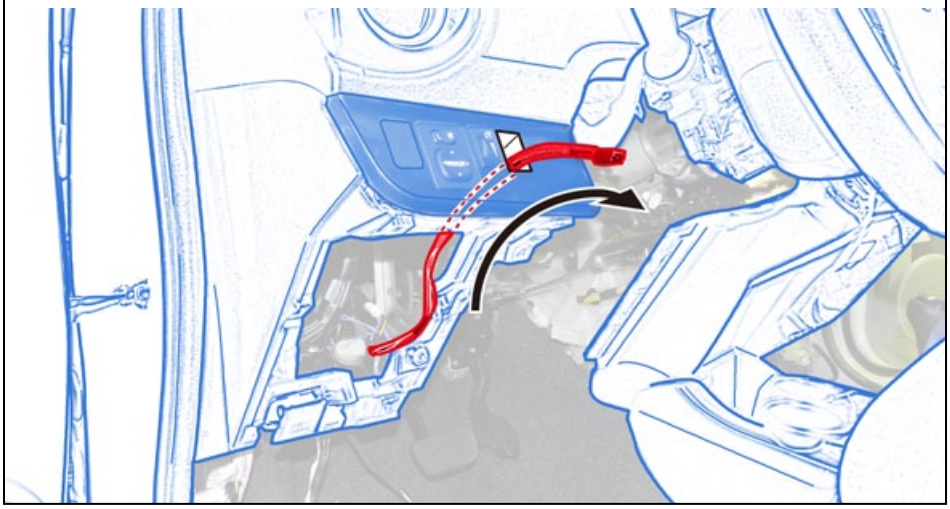
Fig. 4-1



4. Status Monitor Installation.

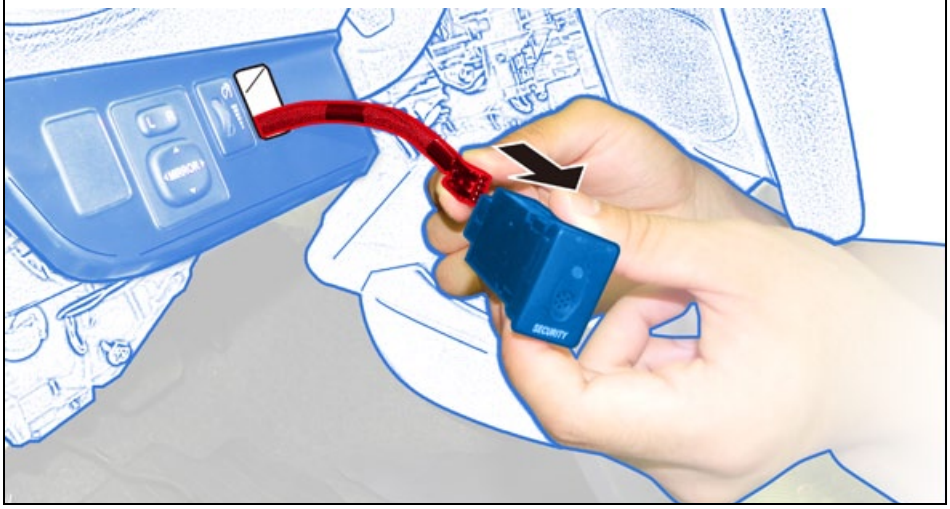
a. Remove the Knockout Cover.

Fig. 4-2



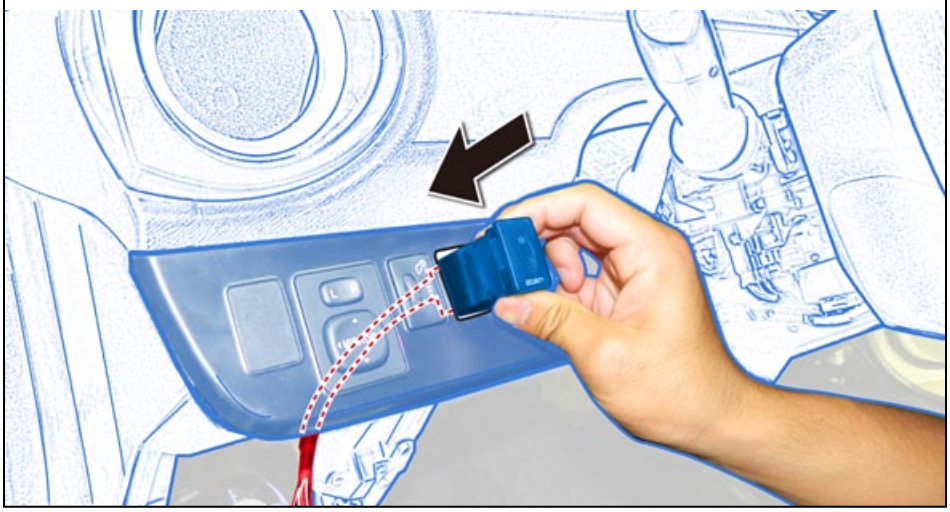
b. Route the V5 Harness Black 4P Connector through the Open Knockout Location.

Fig. 4-3



c. Connect the V5 Black 4P Connector to the Status Monitor.

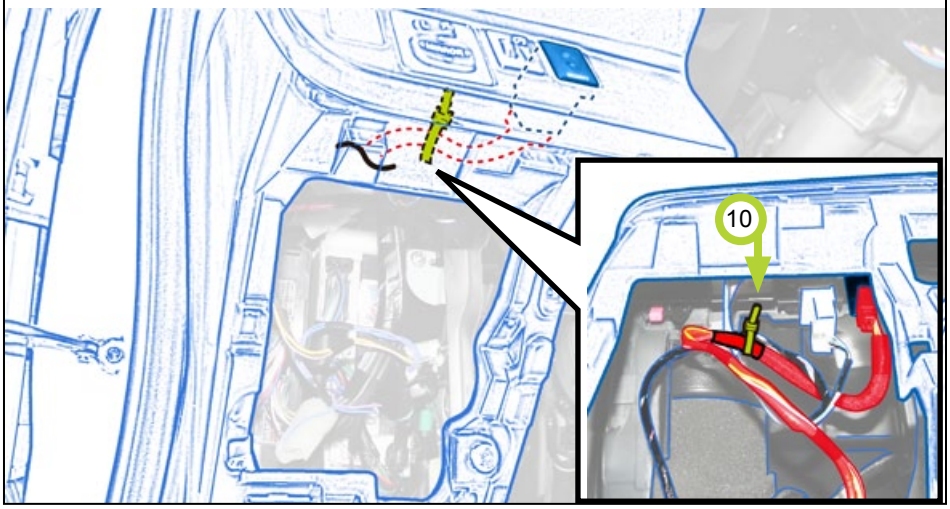
Fig. 4-4



d. Install the Status Monitor in the panel until it snaps in place.

Side Cutters

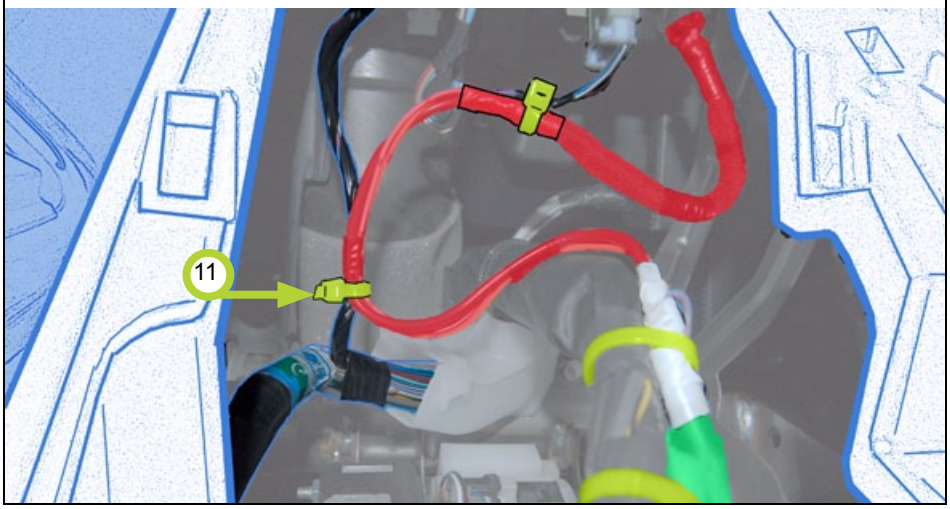
Fig. 4-5



e. Secure the V5 Harness's Red Tape Marker to the Vehicle Harness using 1 Wire Tie.

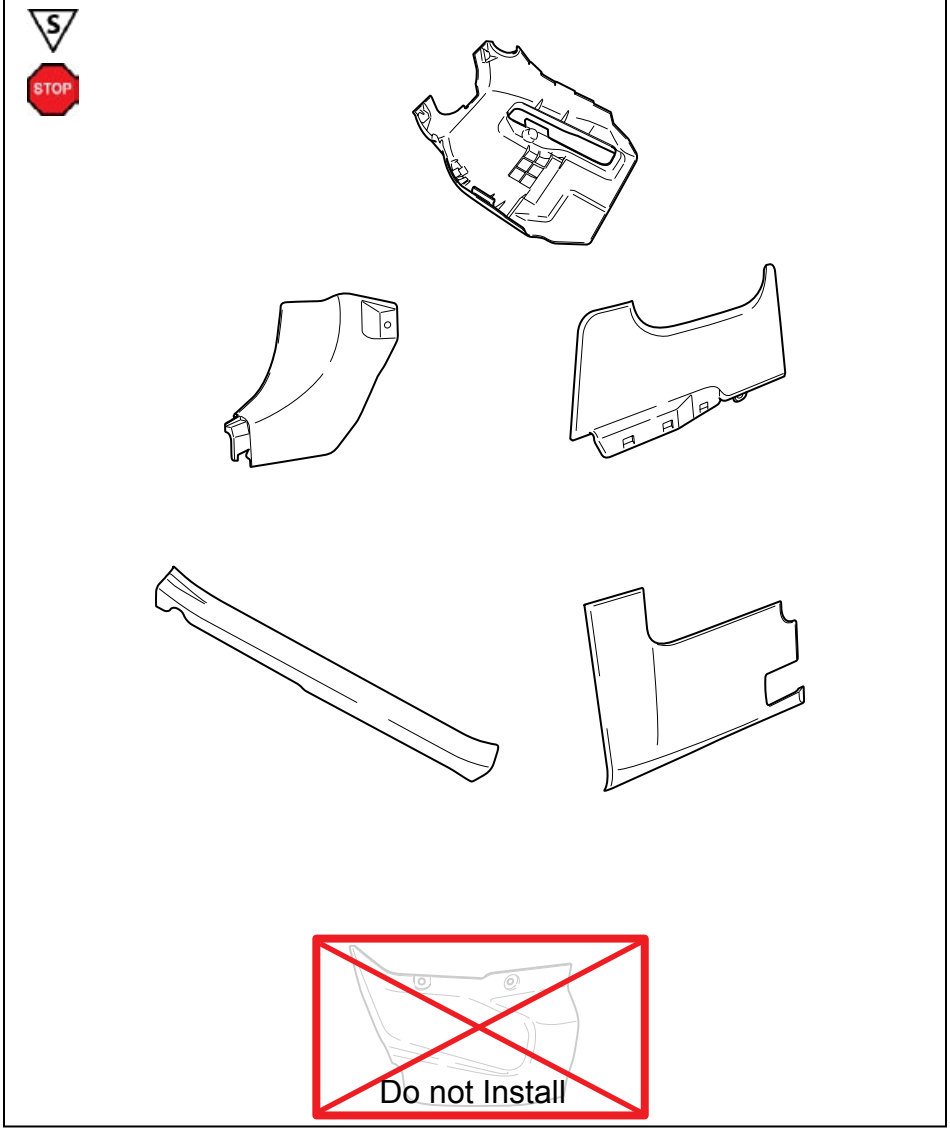
Side Cutters

Fig. 4-6



f. Secure the V5 Harness to the Vehicle Harness using 1 Wire Tie.

10mm Socket, Torque Wrench, Phillips Screwdriver, Extension Fig. 5-1



5. Reassembly.

a. Reassemble the Vehicle except for the Passenger's Side Rear Seat Under Cover.

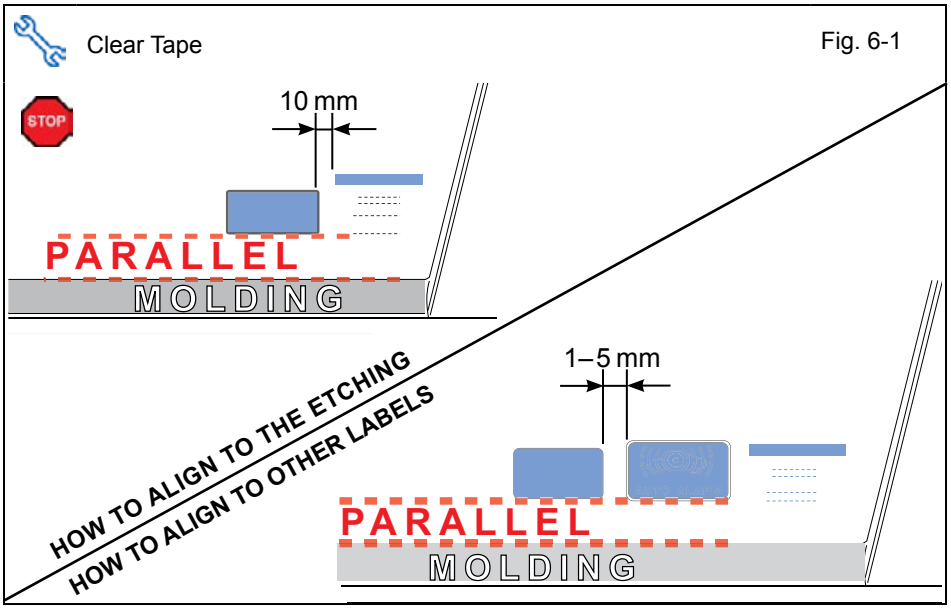
b. When reinstalling the Knee Airbag, make sure to torque the Bolts

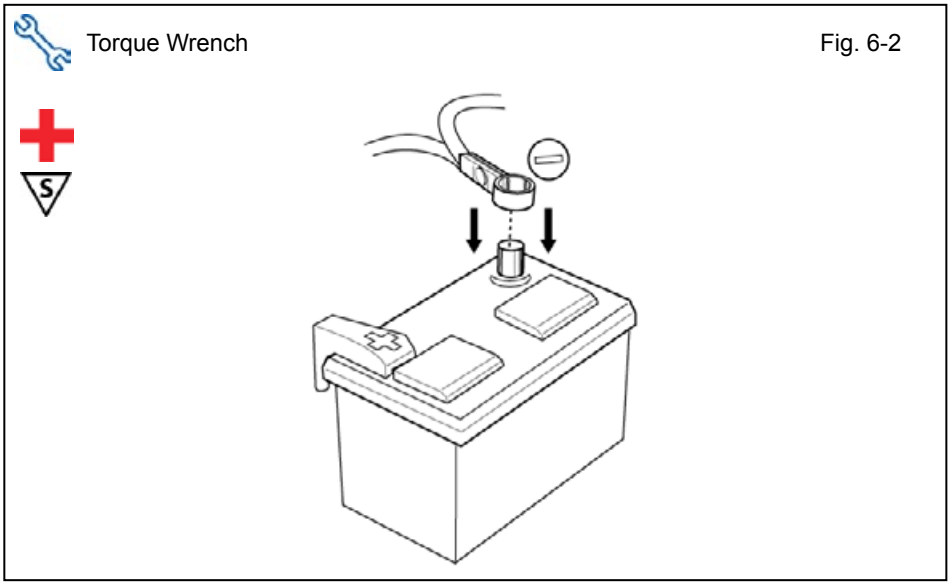
Torque: 88.5 in·lbf (10 N·m)

VERIFY: That all Connectors are plugged in.

VERIFY: That panels fit together properly, with no uneven gaps.

VERIFY: That the Guide Pins and Clips Align properly.





6. Complete the Installation.

a. Use Household Glass Cleaner to clean the inside of the Front Door Windows.

b. Use a piece of Clear Tape to lift the Label off its protective backing.

CAUTION: Do not touch the adhesive surface.

c. Attach the Label as shown.

NOTE: Make sure to Align the Label according to Etching or Other Label.

REPEAT: steps a-c with the other Window.

d. Position the Negative Battery Cable at the original factory position.

Torque: 5.4 N•m (48 in•lbf)

CAUTION: Do not touch the Positive Terminal.

e. Reinstall the Passenger's Side Rear Seat Under Cover.

VERIFY: That the Under Cover Guide Pins and Clips Align properly.

f. Clean up and Remove trash.

g. Sealed in its protective bag, place the Owner's Manual in the Glove Box.

Accessory Function Checks

Roll up all windows, and exit the vehicle with the remote.

Take out the Smart Key and the Smart Card Key from the Vehicle. Place them 7 ft. (2 meters) or more away from the Vehicle.

	Perform	Look For
1	Press and release the remote control lock button to start the system's arming process.	The turn signal lights flash once. All doors lock. The security LED lights up.
2	Wait 30 seconds.	Security LED starts flashing; the system is now armed.
3	Press and release the remote control's unlock button to disarm the system.	The turn signal lights flash twice. The driver's door unlocks. The Security LED stops flashing.

Open the driver's door, with the smart key in your possession, press the power button to "ON." Roll down all the windows, remove the key and exit the vehicle.

4	Arm and disarm the system with the remote again, then wait 30 seconds.	The doors automatically relock. The system automatically starts the arming process.
5	Press and release the remote control's unlock button again to stop the arming process.	Refer to step 3
6	Press the lock button on the driver's exterior door handle to start the arming process.	All doors lock. The Security LED lights up.
7	Wait 30 seconds.	Security LED starts flashing; the system is now armed.
8	Reach inside and manually unlock the driver's door to trigger an alarm.	The driver's door automatically relocks. The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
9	Manually unlock the driver's door again and hold it unlocked, open the door, then sit in the driver's seat.	The driver's door lock attempts to lock repeatedly. The horn continues to sound repeatedly. The headlights and turn signal lights continue flashing. The Security LED remains on.
10	The smart key in your possession, press the power button twice to "START" to stop the alarm.	The horn stops sounding. All the lights stop flashing and/or turn off. The Security LED turns off. The starter cranks and the engine starts.

Press the power button to turn the vehicle off, and then exit the vehicle.

11	With the door open, press the lock switch on the door to lock the doors, then close the door to start the system's arming process.	All doors lock. The Security LED lights up.
12	Wait 30 seconds.	Security LED starts flashing; the system is now armed.

13	Reach inside and manually unlock the front passenger's door to trigger an alarm.	The front passenger's door automatically relocks. The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The SECURITY LED lights up.
14	Press and release the remote control's unlock button to stop the alarm.	The horn stops sounding. All the lights stop flashing. The Security LED stops flashing.
15	Press and release the remote control's lock button to start the system's arming process, then wait 30 seconds until the system is armed.	Refer to steps 1 and 2.
16	Unlock and open one of the rear passenger doors to trigger an alarm. (if available).	Refer to step 13.
17	Press and release the remote control's unlock button to stop the alarm.	Refer to Step 14
18	Repeat the above steps with the other rear passenger door. (if available).	Refer to steps 1, 2, and 13.

Roll up all windows, remove the key and exit the vehicle.

19	Press and release the remote control's lock button to start the arming process.	Refer to step 1.
20	Wait 30 seconds.	After 30 seconds, the Security LED starts flashing; the system is now armed.

Perform the following check in a temperature-controlled environment. (50°- 90° F)

21	With the tip of a key, or Striker Tool pulled all the way out (PPO only), tap the center of the driver's door window to trigger the alarm.	The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
22	Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.	Refer to Step 14

NOTE: If the alarm does not trigger during functional verifications the Smart Key and Smart Card Key might be too close. Move them farther from the vehicle and test the system again.

NOTE: If the alarm does not trigger during the Glass Breakage Test, increase the GBS sensitivity to the next setting and test again.

NOTE: If you do not disarm the system, the alarm will last 20 seconds. It is not necessary to check the alarm duration.

Vehicle Appearance Check

	Perform	Look For
☐	After accessory installation and removal of protective cover(s), perform a visual inspection of the vehicle.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)

Vehicle Function Checks

	Function		Function
Enter the Vehicle			
☐	Dome/Courtesy Lights	☐	Steering Wheel Column Adjusts Without Interference
☐	Horn		
Start the Vehicle			
☐	Starter	☐	Gauges
☐	Panel/Switch Illumination	☐	ABS Light (if equipped) *If the warning light remains on, it may indicate a system malfunction.*
☐	Lamp Failure Sensor *If the warning light remains on, it may indicate a system malfunction.*	☐	Track/Skid Control Light (if equipped) *If the warning light remains on, it may indicate a system malfunction.*
☐	Seat Belt Warning Light *If the warning light remains on, it may indicate a system malfunction.*	☐	Tire Pressure Monitoring System (TPMS) *Prior to TPMS activation and Pre-delivery Service (PDS) of the Vehicle the TPMS light will blink when IG is turned on.* *After TPMS activation and PDS of the Vehicle the TPMS light will illuminate for a few seconds and go off when IG is turned on.*
☐	Air Bag Warning Light *If the warning light remains on, it may indicate a system malfunction.*		
☐	Cruise Control Light (if equipped)		
Using a Mirror or Assistant check the following.			
☐	Trunk/Tailgate/Bed Lights (if equipped)	☐	Tail Lights
☐	Brake Lights	☐	Daytime Running Lights (if equipped)
☐	Backup Lights	☐	Marker Lights
☐	Clearance Sonar (if equipped)		
Stop the Engine, Place the Vehicle's IG in the ON position.			
☐	Hazard Lights	☐	Turn Signal Lights
☐	Head Light	☐	Fog Lights (if equipped)
☐	High Beams	☐	Accessory Controls/Illumination (if equipped)
☐	Power Side Mirrors (if equipped)	☐	Convenience Memory Settings (if equipped)
☐	Power Sliding Door (if equipped)	☐	Rear Sunshade (if equipped)

	Function		Function
☐	Front Wiper/Washer	☐	Rear Wiper/Washer (if equipped)
☐	Power Sun/Moon Roof (if equipped)	☐	Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)
☐	Clock (if equipped)	☐	Navigation System (if equipped)
☐	Audio/Video (if equipped)	☐	USB Connections (if equipped)
☐	Steering Wheel Audio Control (if equipped)	☐	HVAC
☐	Front Windshield Defogger (if equipped)	☐	Rear Window Defogger (if equipped)
☐	Side Mirror Defogger (if equipped)	☐	Accessory Power Socket (if equipped)
☐	Massage Seats (if equipped)	☐	Heated/Vented Seats (if equipped)

☐	Glovebox Light (if equipped)	☐	Passenger Air Bag Switch (if equipped)

☐	Power Locks (if equipped)	☐	Power Windows (if equipped)
☐	Power Seats (if equipped)	☐	Key Sensor Buzzer