

**Part Number: PT398-34150**

**Conflicts**

Do not install into Vehicles without RKE system.

**Recommended Sequence of Application**

Item #	Accessory	
1	TVIP/RES	Any TVIP or RES system
2	XM Radio	

**Kit Contents**

Item #	Quantity	Description
1	1	Wire Harness
2	1	RES ECU Mounting Bracket
3	1	RES ECU Mounting Plate
4	1	Gateway ECU Bracket

**Hardware Bag Contents**

Item #	Quantity	Description
1	1	RES ECU
2	1	Gateway ECU
3	3	Small Foam Tape Strips (1 per)
4	1	Large Foam Tape Strips (2 per)
5	25	Wire Ties
6	2	M6 Flange Nut
7	4	Window Warning Labels (2 English/2 Spanish)
8	4	Key Tags (2 English/2 Spanish)
9	2	Engine Room Warning Labels (1 English/1 Spanish)
10	1	Owner's Manual

**Additional Items Required For Installation**

Item #	Quantity	Description
1	1	Hood Switch Kit (PT398-34141) <b>NOTE:</b> Required for all vehicles without Factory Alarm (See Page 5)
2	1	Black Electrical Tape

**Recommended Tools**

Personal & Vehicle Protection	Notes
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes, etc.
Special Tools	Notes
Tape Cutting Tool	
¼' Drive Torque Screwdriver (Req'd for Hood Switch)	Included in the TPMS Tool Kit#00002-TTPWS Toyota SST#00002-TTPWS-03, #0 Phillips Hood Switch: 3.1 in•lbf (0.35 N•m)
Installation Tools	Notes
Screwdriver	#2 Phillips, Flat blade
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), Hood Latch - 71 in•lbf (8 N•m), Airbag - 88.5 in•lbf (10 N•m)
Utility Knife	
Tape	Clear, Electrical
Socket	10mm, Extension
Special Chemicals	Notes
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

**Legend**

 **STOP:** Damage to the vehicle may occur. Do not proceed until process has been completed with.

 **OPERATOR SAFETY:** Use caution to avoid risk of injury.

 **CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

 **TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.

 **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.

 **SAFETY TORQUE:** This mark indicates that torque is related to safety.

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.

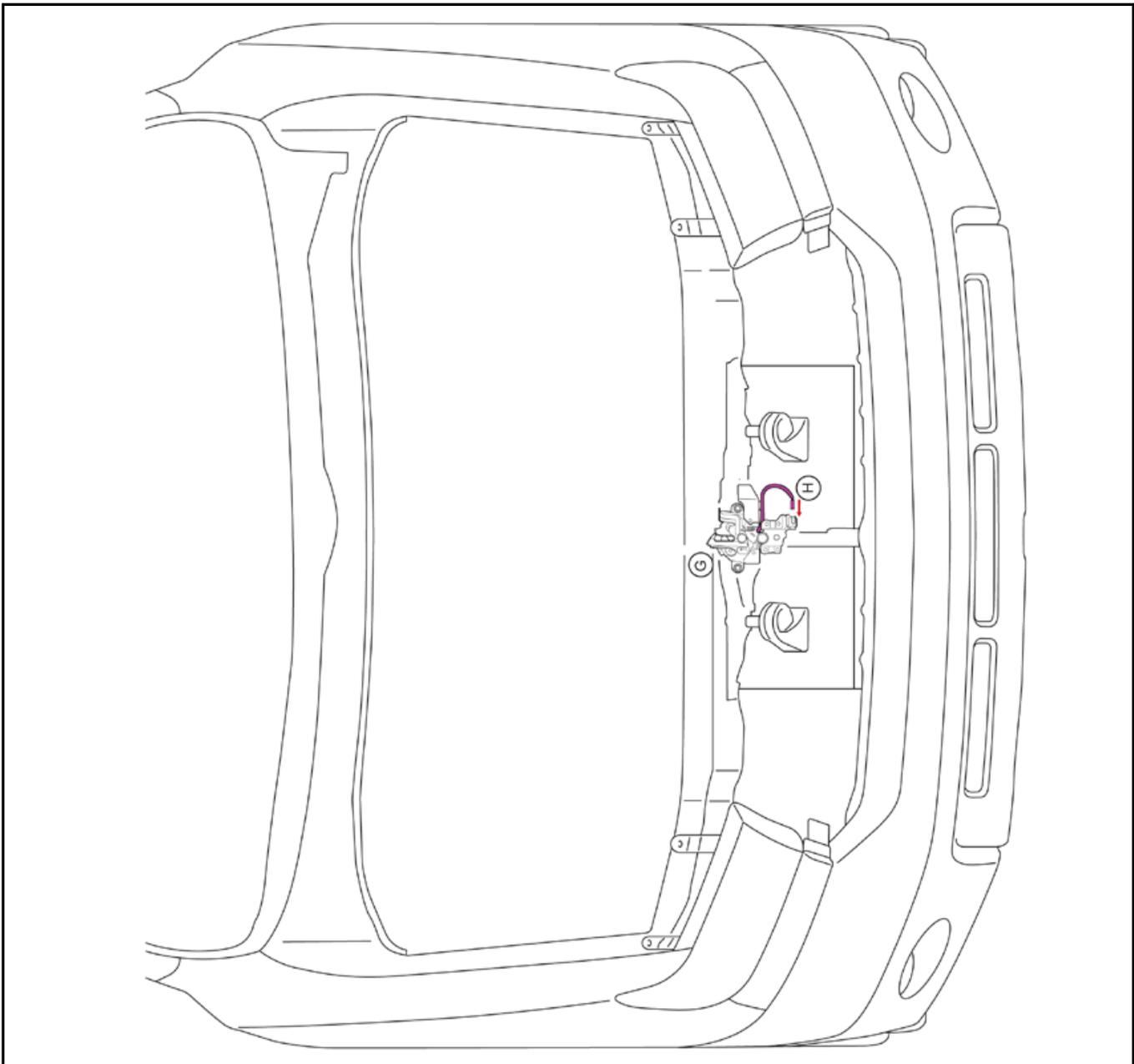
This document covers such items as:

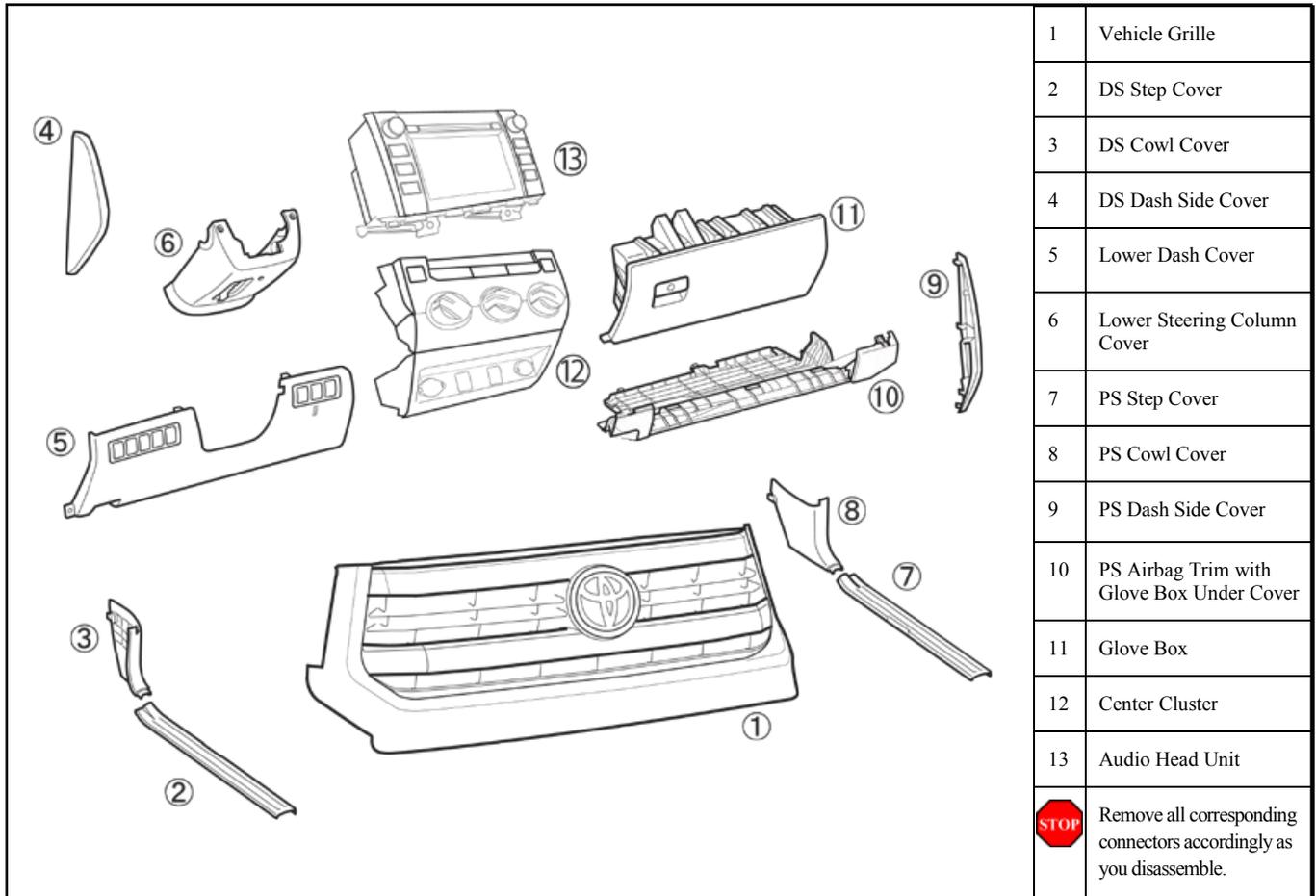
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.)
- Safety (eye protection, rechecking torque procedure, etc.)
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.)
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)

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



TVIP	Vehicle	Description											
<b>G</b>		Hood Switch <i>for Vehicles without Factory Security Systems</i>											
<b>H</b>		2P Connector											



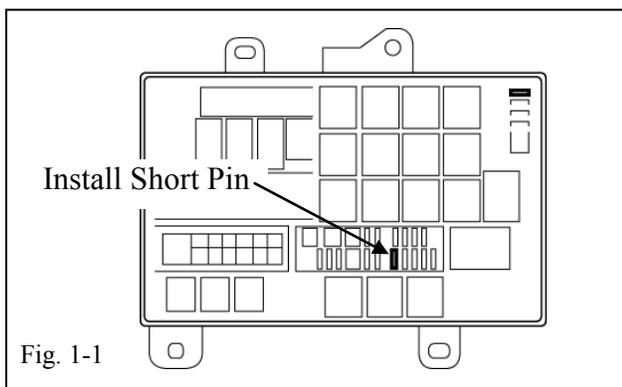


**1. Hood Switch Confirmation.**

(a) Verify that the Short Pin is installed.

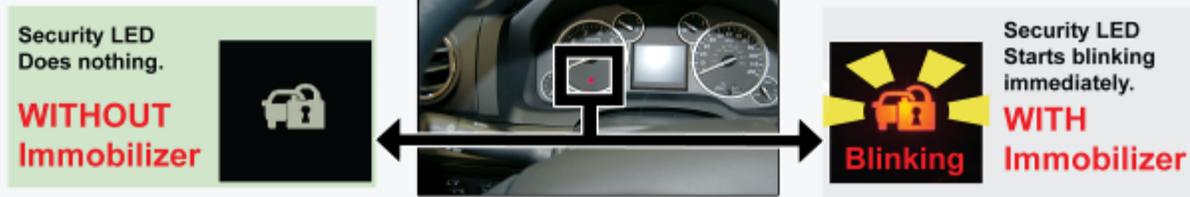
(Fig. 1-1)

(1) If not, install now.

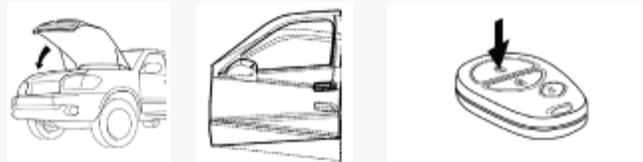


**Confirm the following:**

Insert the Key into the ignition, then Remove the Key from the ignition. Observe the Security LED.



Before beginning, close the Hood and the Doors. Press the remote control's lock button.

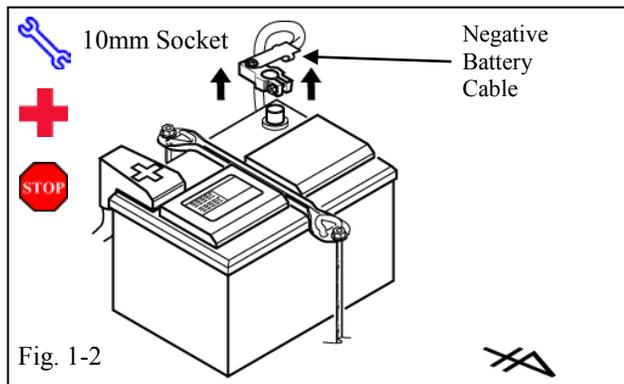


Observe the Security LED



**ELECTRONIC TILT ADJUST ONLY:** Fully extend the Steering Wheel's Tilt and Telescope positions.

(b) Remove the Negative Battery Cable.  
(Fig. 1-2)



- (1) Place the Vehicle in Park and set the Parking Brake before disconnecting the Battery.
- (2) Protect the Fender before starting.
- (3) Note the Battery Cable position, as it will be re-installed in the same position.

**CAUTION:** Do not touch the positive terminal.

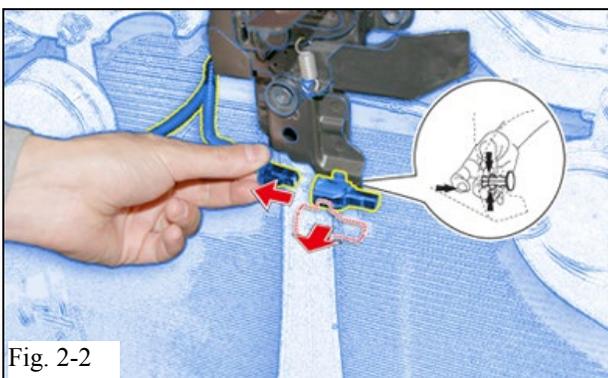
**VEHICLES WITHOUT FACTORY ALARM**

**2. Hood Switch Installation**

(a) Remove Vehicle's Grille. (Fig 2-1)

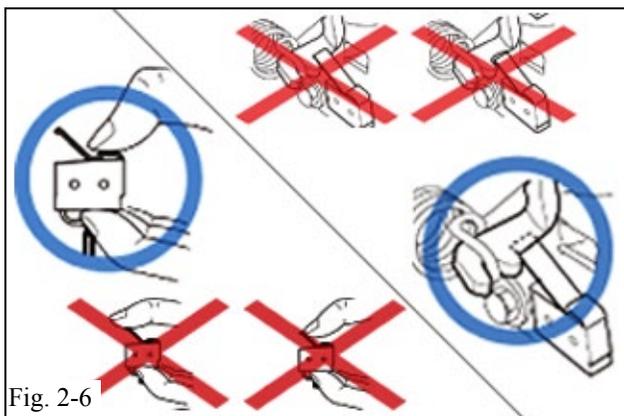
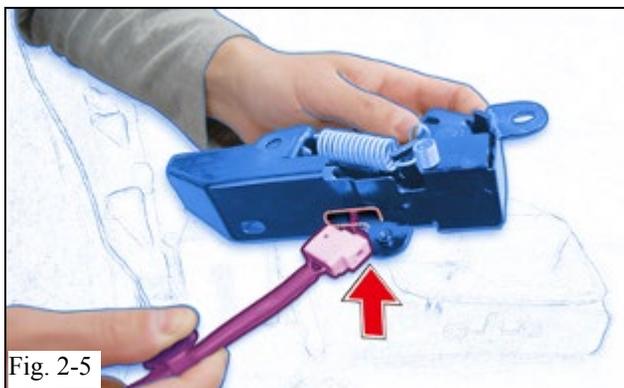
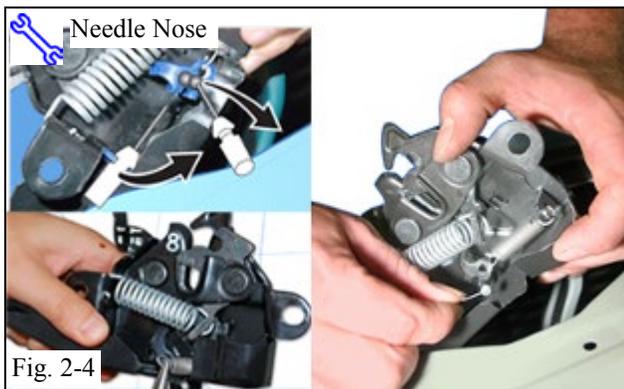
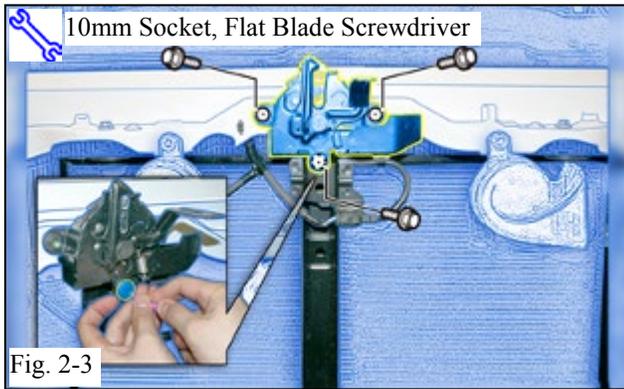
- (1) Add Protection Tape on the surrounding area.
- (2) Remove 4 Bolts.
- (3) Remove 2 Clips.

 (4) Pull the bottom of the Vehicle's Grille in order as shown. Unhook top side of Grille from Bolt Anchors.



(b) Disconnect the Vehicle's Pre-Connector from the Dummy Connector. (Fig. 2-2)

(c) Remove and discard the Dummy Connector. (Fig. 2-2)



(d) Remove 1 Bolt Cover. (Fig 2-3)

(1) Discard the Bolt Cover.

(e) Remove the 3 Bolts from the Hood Latch.  
(Fig 2-3)

(1) Dislodge the Vehicle's Hood Latch Assembly.

(f) Remove the Hood Latch Cable. (Fig. 2-4)

(g) Release the spring from the Hood Latch.  
(Fig. 2-4)

(h) Insert the Hood Switch to the Hood Latch  
Assembly. (Fig 2-5)

⚠ Make sure to hold the Hood Switch by its sides.  
(Fig. 2-6)

⚠ Make sure the Hood Switch Lever is positioned  
properly. (Fig. 2-6)

⚠ If the Hood Switch is Broken, RES will not  
function. (Fig. 2-6)

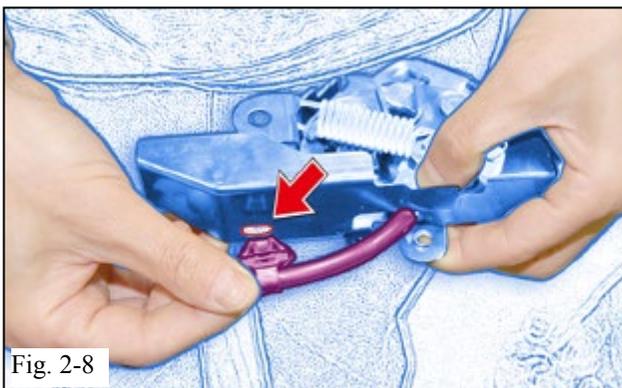


(i) Install the Hood Switch with the Switch Lever underneath the Hood Lock Trigger Lever. (Fig. 2-7)

 (1) Tighten the Screw to 3.1 in•lbf (0.35 N•m).



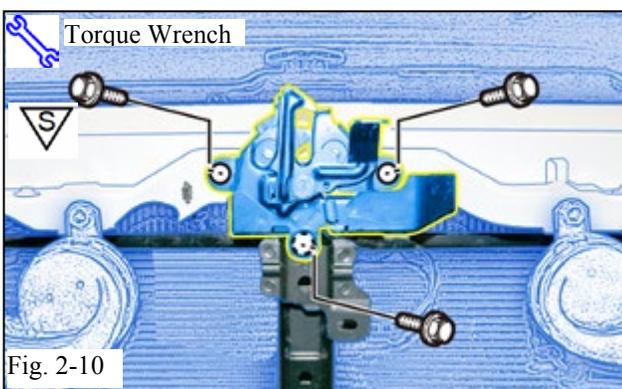
**NOTE:** Do not reuse the Screw once it is already installed. The effect of the adhesive becomes weak if used again.



(j) Attach the Hood Switch Clip to the Hood Latch Assembly. (Fig. 2-8)

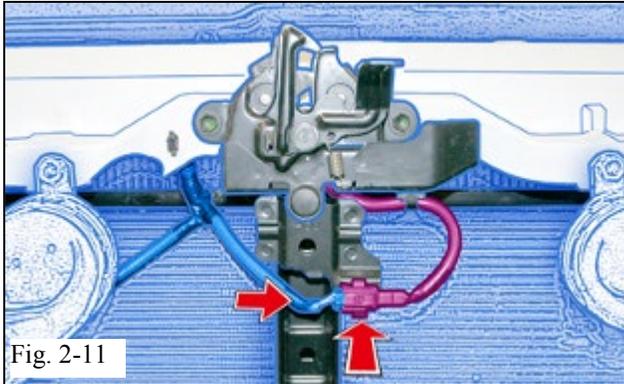


(k) Reinstall the Hood Latch Cable to the Hood Latch Assembly. (Fig. 2-9)



(l) Reinstall 3 Bolts. (Fig. 2-10)

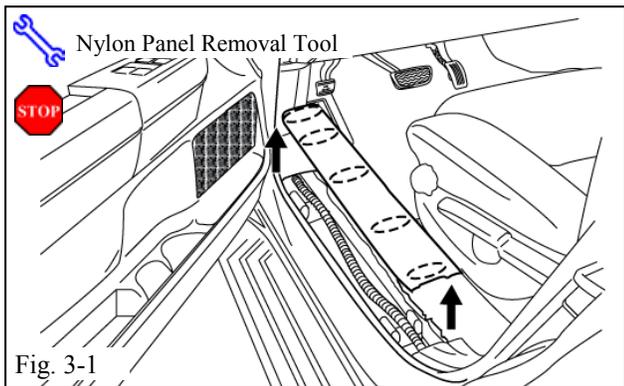
 (1) Torque Bolts (71 in•lbf) (8 N•m)  
(2) Install the Bolt Cover supplied in the kit.



(m) Connect the Hood Switch Connector to the Vehicle's Pre-Connector and attach to Vehicle. (Fig. 2-11)

(n) Reinstall the Front Grille.

- (1) Reinstall top edges of the Vehicle Grille.
- (2) Snap Vehicle Grille's bottom Clips in place.

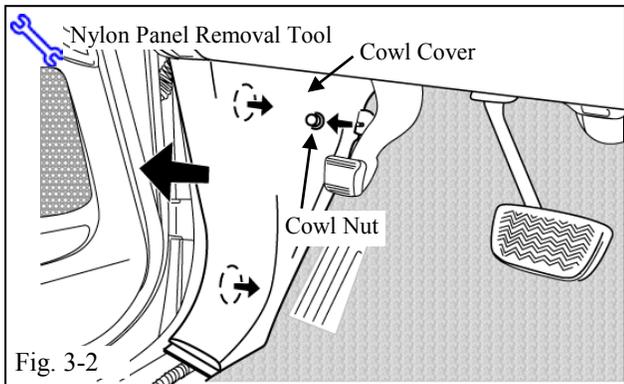


**3. Vehicle Disassembly.**

(a) Remove the Driver's Side Step Cover. (Fig. 3-1)



- (1) Begin by protecting the Vehicle Interior with Blankets.



(b) Remove the Driver's Side Cowl Cover. (Fig. 3-2)

- (1) Remove 1 nut.



(c) Remove the Driver's Dash Side Cover. (Fig. 3-3)

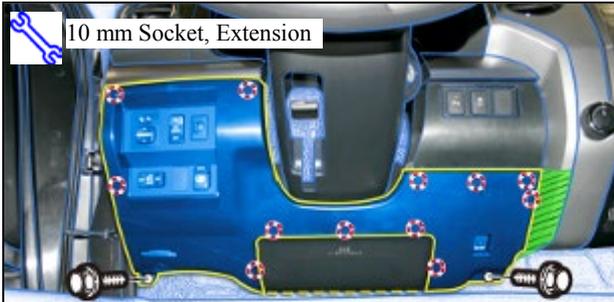


Fig. 3-4

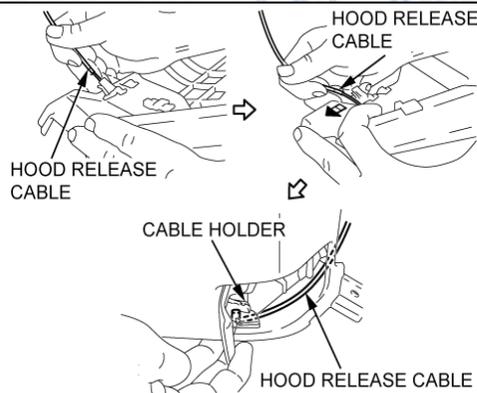


Fig. 3-5

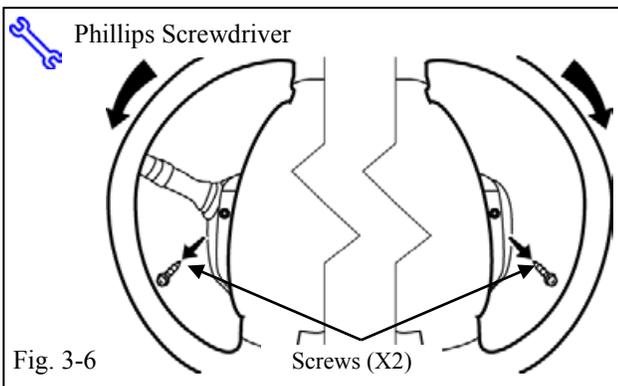


Fig. 3-6

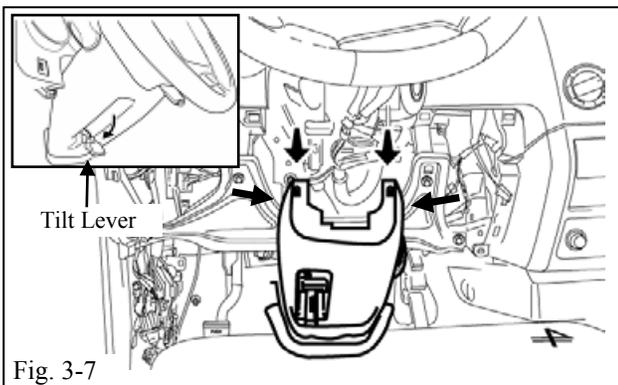


Fig. 3-7

(d) Remove Lower Dash Cover. (Fig. 3-4)

- (1) Add Protection Tape on the corner of the Center Cluster.
- (2) Remove 2 bolts and disconnect all connectors.

(e) Remove hood release cable from release lever. (Fig. 3-5)

- (1) Move cable out from hood release lever assembly.
- (2) Move cable to the slot side of the hood release lever assembly.
- (3) When the cable is clear of the hood release lever retaining area, move the cable towards the lever and disconnect the inner cable end from the lever.

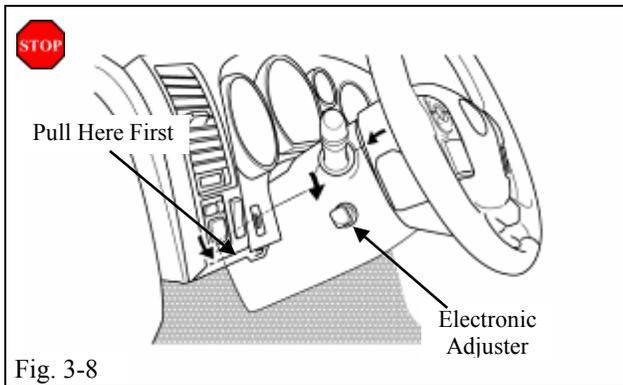
(f) Remove the 2 Screws that secure the Lower Steering Column Cover. (Fig. 3-6)

- (1) Insert the key into the Ignition and turn it to "ON."
- (2) Turn the Steering Wheel left then right to gain access to the 2 screws securing the Cover.

FOR USE ON VEHICLES WITH MANUAL TILT ADJUST (steps g-h)

(g) Release the Tilt Lever. (Fig. 3-7)

- (h) Press inwards on each side of the Steering Column Cover while pulling downward to remove the cover. (Fig. 3-7)

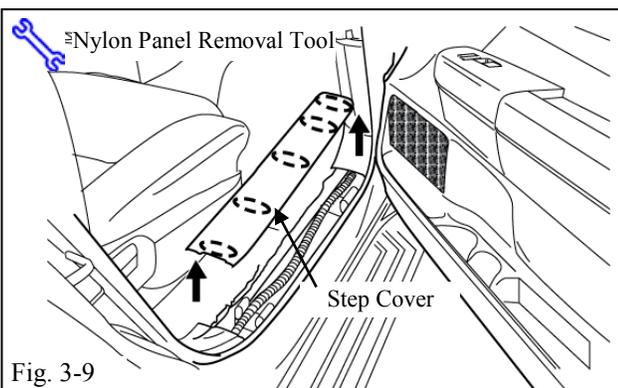


FOR USE ON VEHICLES WITH  
ELECTRONIC TILT ADJUST (steps i-j)

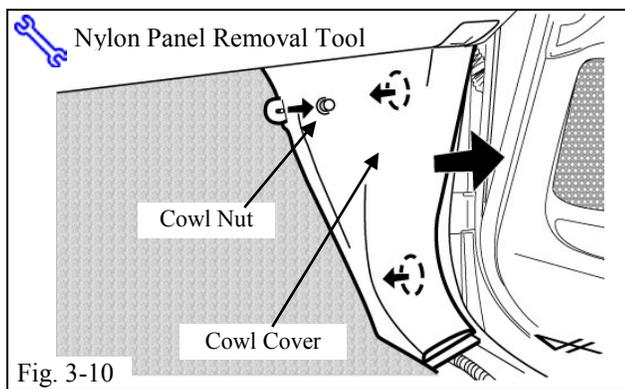
- (i) Press in on each side and pull down on the lower section of the Lower Steering Column Cover to release it from the Top Section. (Fig. 3-8)
- (j) Pull out on the Top Left Corner of the Steering Column Cover to clear the Electronic Steering Column Adjuster Knob. (Fig. 3-8)



**CAUTION:** Avoid scratching the vehicle.

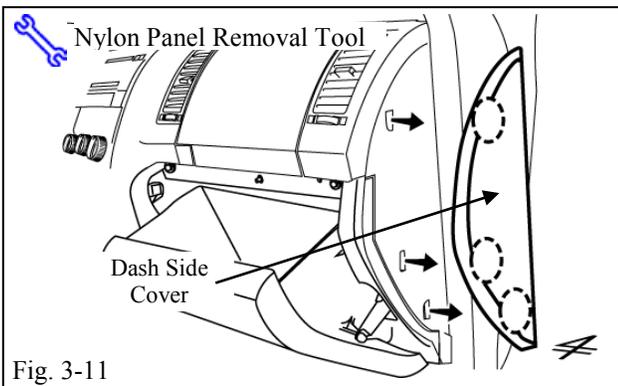


- (k) Remove the Passenger's Step Cover. (Fig. 3-9)



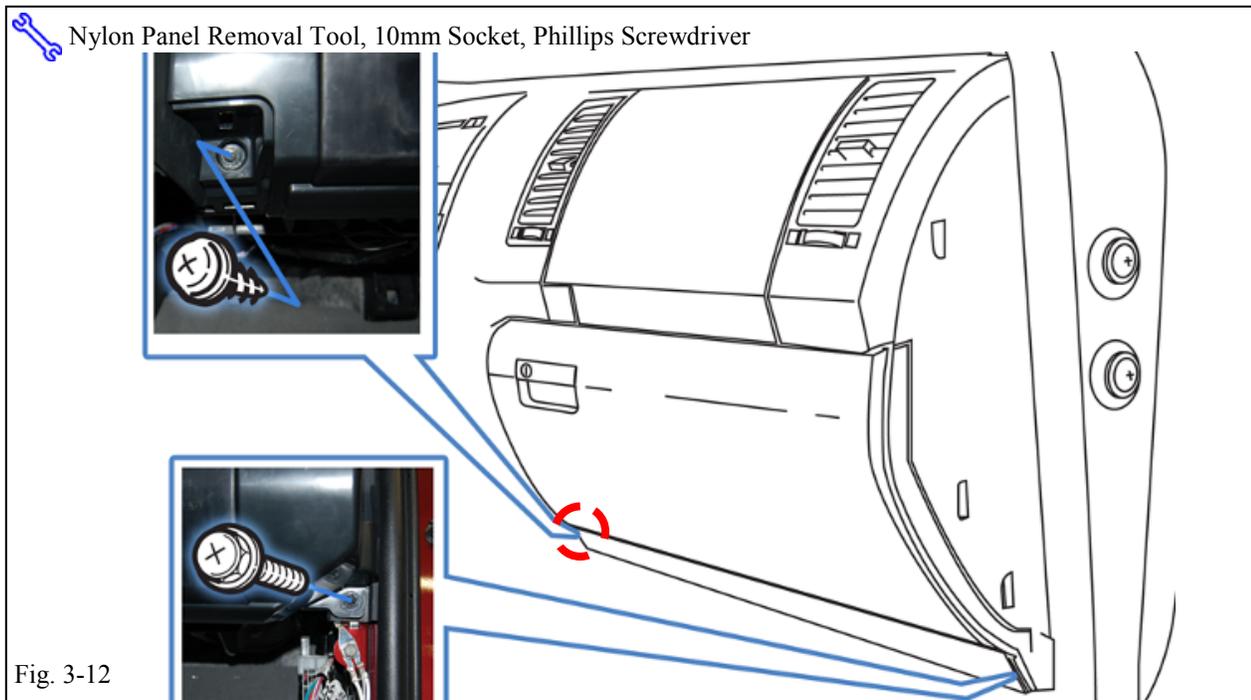
- (l) Remove the Passenger's Cowl Cover. (Fig. 3-10)

(1) Remove 1 Nut.

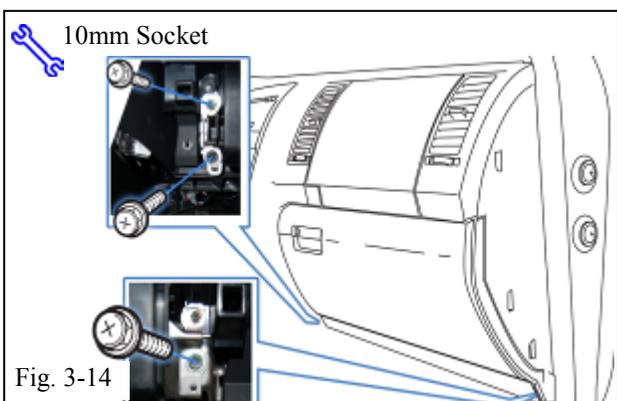


- (m) Open the Glove Box. (Fig. 3-11)
- (n) Remove the Passenger's Dash Side Cover. (Fig. 3-11)
- (o) Close the Glove Box.

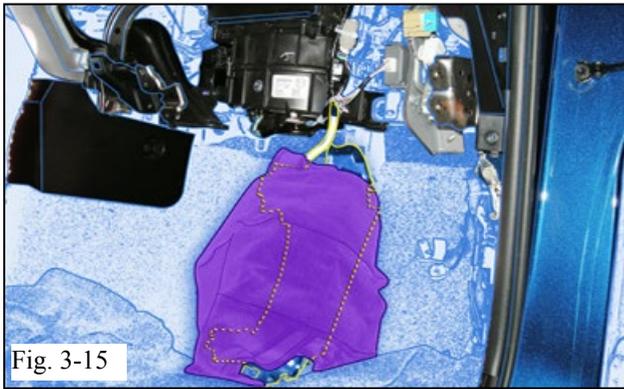
- (p) Dislodge 1 Clip on bottom left side and hold down panel to remove 1 Screw. (Fig. 3-12)
- (q) Remove 1 Bolt from the bottom right side.(Fig. 3-12)



- (r) Remove the Passenger's Side Knee Airbag Brace Trim with Glove box under cover. (Fig. 3-13)



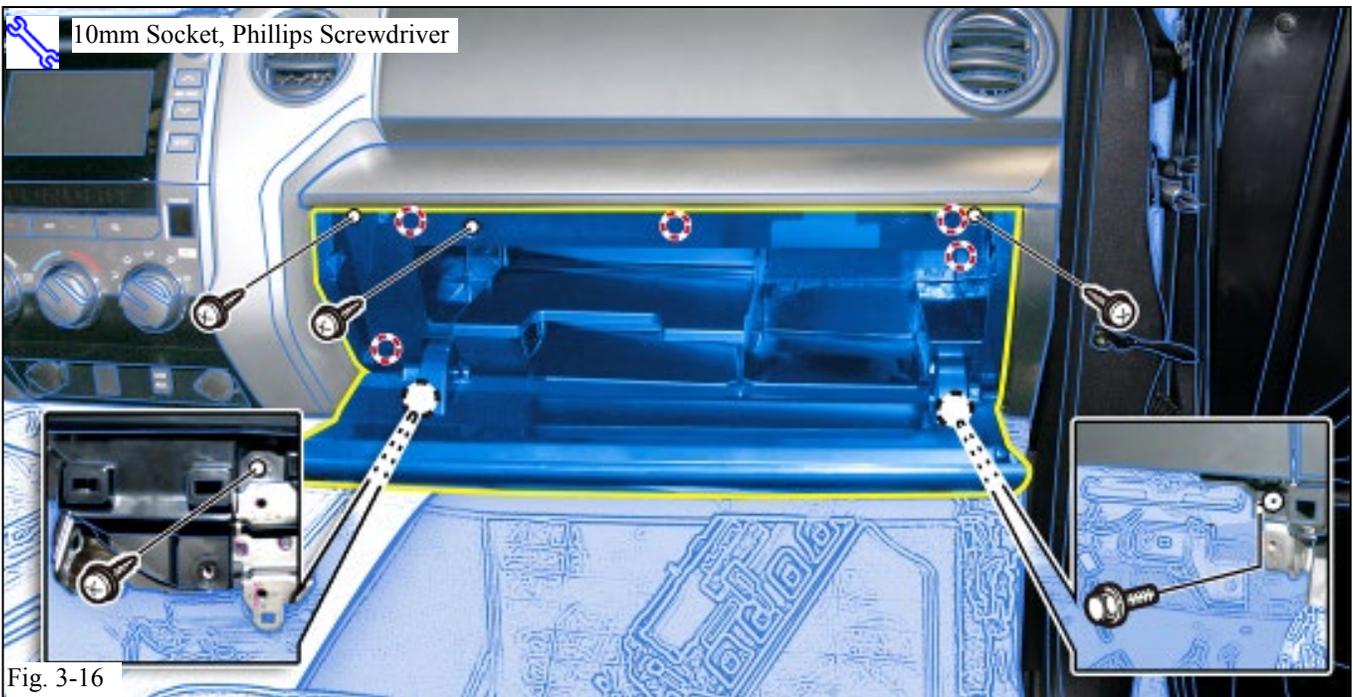
- (s) Dislodge the Passenger's Knee Airbag. (Fig. 3-14)
  - (1) Remove 3 Bolts.



(t) Wrap the Airbag in a blanket and place it against the firewall as shown. (Fig. 3-15)



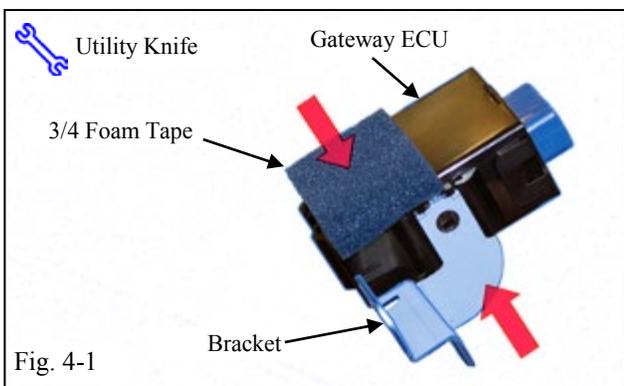
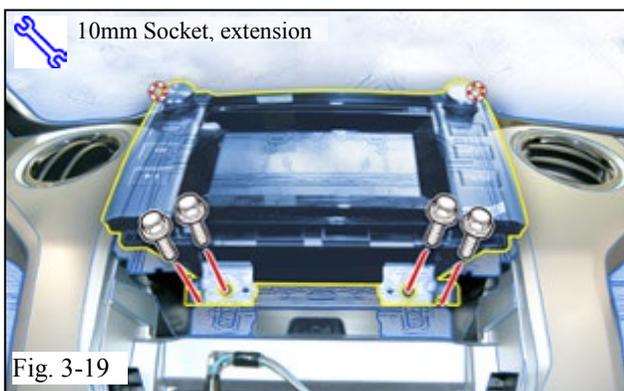
**CAUTION:** Avoid tension on the Air Bag's Harness.



(u) Remove 1 Screw and 1 Bolt from the bottom of the Glove Box. (Fig. 3-16)

(v) Remove the Glove Box. (Fig. 3-16)

- (1) Open the Glove Box.
- (2) Remove 3 Screws.



**VEHICLES WITH IMMOBILIZER**  
**(steps w-aa)**

FOR VEHICLES WITH FLOOR MOUNT  
AUTOMATIC SHIFT LEVERS ONLY. (steps w-x)

- (w) Push on the Shift Release with taped screwdriver and Shift to Neutral. (Fig. 3-17)
- (x) Remove the Center Cluster from the Center Console. (Fig. 3-17)

FOR VEHICLES WITH COLUMN MOUNT  
AUTOMATIC SHIFT LEVERS ONLY. (steps y-z)

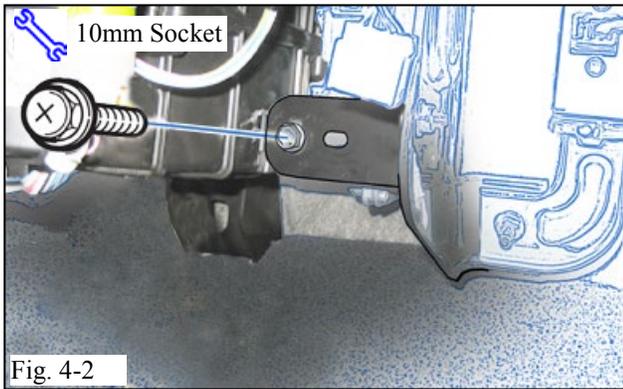
- (y) Remove the Center Cluster below the Climate Control Console. (Fig. 3-18)
- (z) Remove the Center Cluster from the Center Console. (Fig. 3-18)

(aa) Remove Audio Unit. (Fig. 3-19)

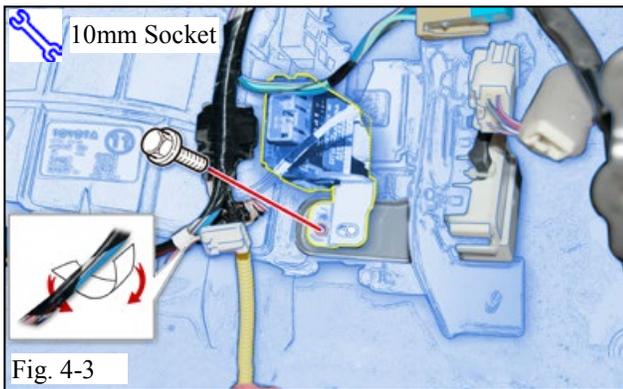
- (1) Remove 4 Bolts.

**4. Gateway ECU Preparation and Installation.**

- (a) Apply 3/4 small piece of Foam Tape to the Gateway ECU as shown. (Fig. 4-1)
- (b) Attach the Gateway ECU Bracket to the Gateway ECU as shown. (Fig. 4-1)



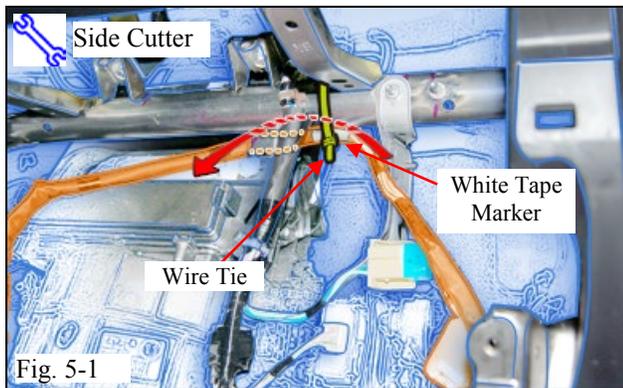
(c) Remove the Bolt located behind the Glove Box. (Fig. 4-2)



(d) Install the Gateway ECU with the Connector facing outward. (Fig. 4-3)

(1) Use the Vehicle's Bolt to secure the ECU.

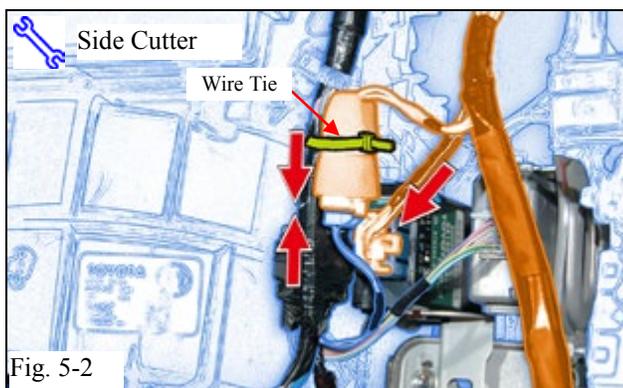
(e) Remove the Tape securing the Vehicle's 3P Pre-Connector. (Fig. 4-3)



### 5. V4 Harness Installation. (Passenger's Side)

(a) Route the V4 Harness from right to left behind the Vehicle Brace. (Fig. 5-1)

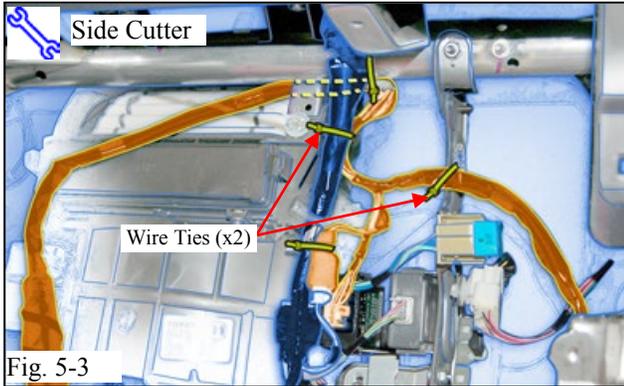
(b) Secure the V4 Harness White Tape marker to the Vehicle I/P Reinforcement Bar with 1 Wire Tie. (Fig. 5-1)



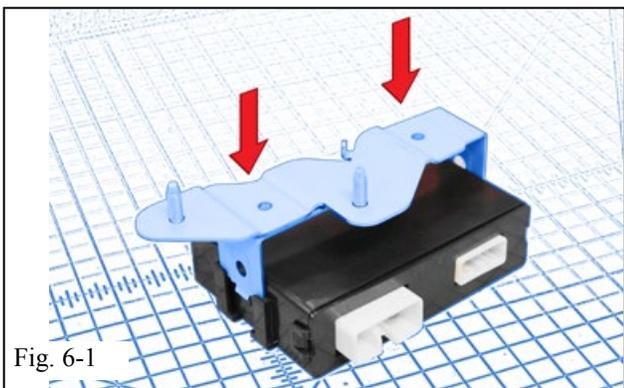
(c) Connect the V4 Harness's 5P Connector to the Gateway ECU (Fig. 5-2)

(d) Connect the Vehicle's 3P Pre Connector to the V4 3P Connector. (Fig. 5-2)

(e) Secure the 3P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 5-2)



- (f) Secure the V4 Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 5-3)
- (g) Secure the V4 Harness to the Vehicle Bracket with 1 Wire Tie. (Fig. 5-3)



**6. RES ECU Preparation & Installation**

- (a) Attach the RES ECU Bracket to the RES ECU as shown. (Fig. 6-1)



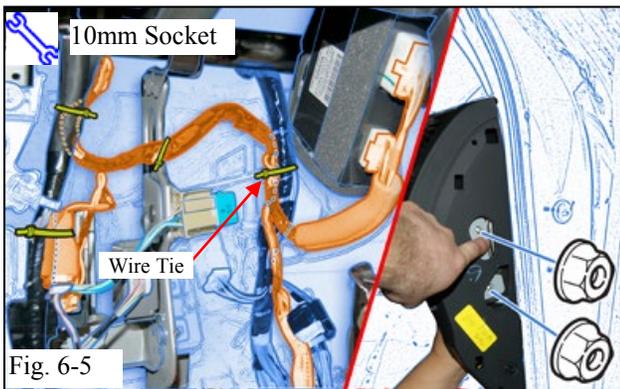
- (b) Attach 2 pieces of Large Foam Tape to the sides of the RES ECU as shown. (Fig. 6-2)
- (c) Attach 1 Small Foam Tape on top of the RES ECU. (Fig. 6-2)



- (d) Connect the V4 Harness's 8P and 20P Connectors to the RES ECU. (Fig. 6-3)



(e) Insert the RES ECU Mounting Plate through the Hole on the side of the Dash. (Fig. 6-4)

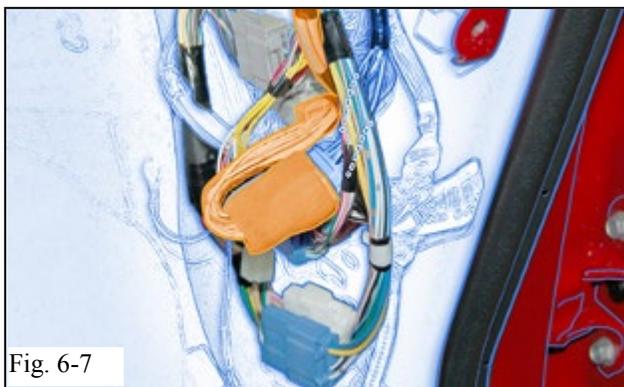


(f) Install the RES ECU as shown using 2 Nuts from the Kit. (Fig. 6-5)

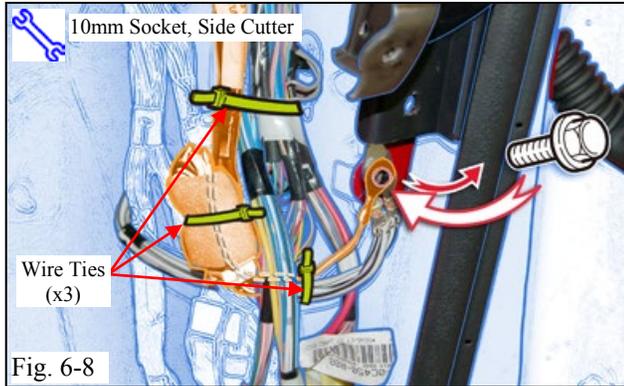
(g) Secure the V4 Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 6-5)



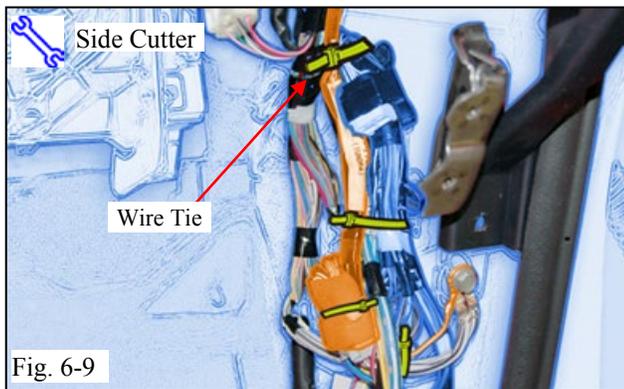
(h) Disconnect the Vehicle 22P Gray Connector from the connector block in the Passenger Cowl Area (Fig. 6-6)



(i) Connect the V4 22P Gray Connectors in between the Vehicle 22P Gray Connectors. (Fig. 6-7)

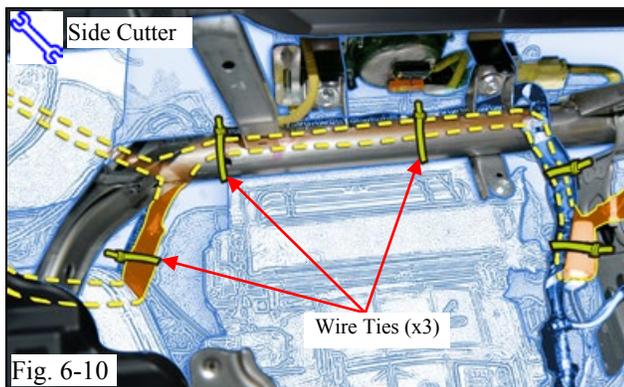


- (j) Remove the Bolt securing the Vehicle Ground Terminal. (Fig. 6-8)
- (k) Secure the V4 Ground Terminal to the Vehicle's Ground Terminal using the same Bolt. (Fig. 6-8)
- (l) Secure the 22P Gray Connectors and V4 Harness to the Vehicle Harness using 3 Wire Ties. (Fig. 6-8)



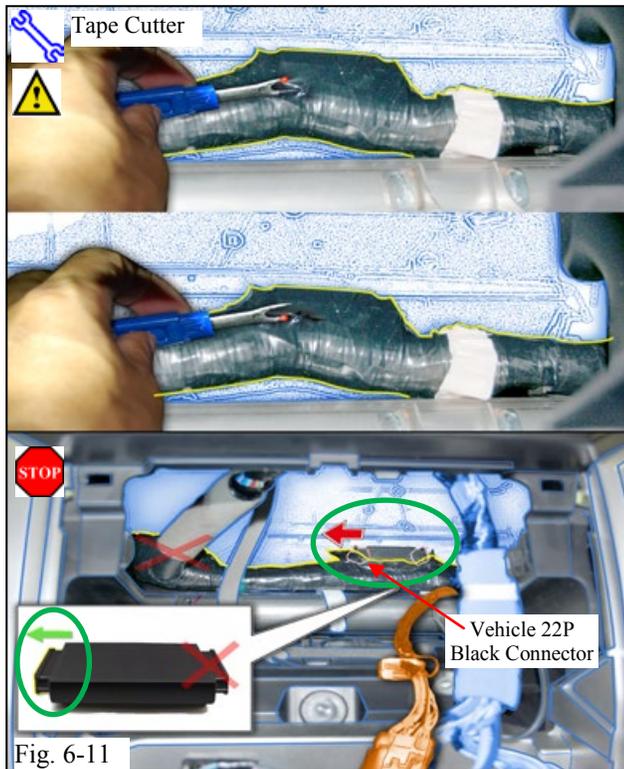
- (m) Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie. (Fig. 6-9)

**GO BACK TO THE V4 HARNESS'S WHITE TAPE MARKER.**



**|| VEHICLES WITH IMMOBILIZER (steps n-u)**

- (n) Route the V4 Harness behind the I/P Reinforcement Bar securing it with 2 Wire Ties. (Fig. 6-10)
- (o) Route V4 Harness 8P Connector and Fuse behind the Center Brace towards the Driver's Side Area (Fig. 6-10)
- (p) Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie. (Fig. 6-10)
- (q) Route the V4 Harness 22P Black Connectors towards the Audio Unit Area. (Fig. 6-10)



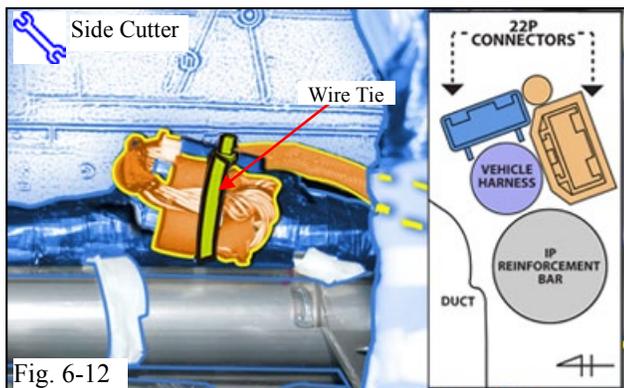
(r) Use a Tape Cutter to cut Vehicle Harness Tape securing the Vehicle 22P Black Connector located on the right side behind the audio area. (Fig. 6-11)

- (1) Use the metal tip to initially cut the tape.
- (2) Use the rubber tip side to cut the tape across the connector.

**CAUTION:** Do not damage the Vehicle Harness with the metal tip.

(s) Disconnect the Vehicle 22P Black Connector. (Fig. 6-11)

- STOP** (1) Make sure to disconnect from the left side of the Vehicle 22P Black Connector.

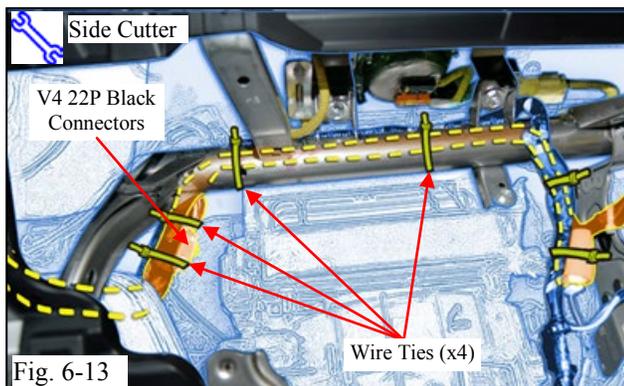


(t) Connect 22P V4 Black Connectors in between the Vehicle 22P Black Connectors. (Fig. 6-12)

**STOP NOTE:** Place the 22P Black Connectors in reference to the illustration.

(u) Secure 22P Black Connectors to the Vehicle Harness using 1 Wire Tie. (Fig. 6-12)

**Skip to Section 7 (Page 20)**

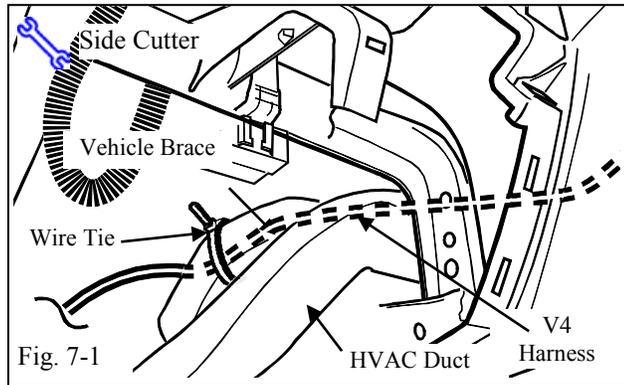


**VEHICLES WITHOUT IMMOBILIZER**  
(steps v-x)

(v) Route the V4 Harness behind the I/P Reinforcement Bar securing it with 2 Wire Ties. (Fig. 6-13)

(w) Connect the V4 22P Black Connectors together then bundle excess harness branch and secure to the Vehicle Harness using 2 Wire Ties. (Fig. 6-13)

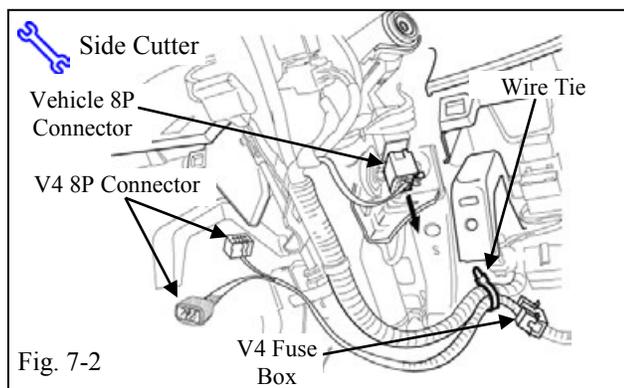
(x) Route V4 Harness 8P Connector and Fuse behind the Center Brace towards the Driver's Side Area. (Fig. 6-13)



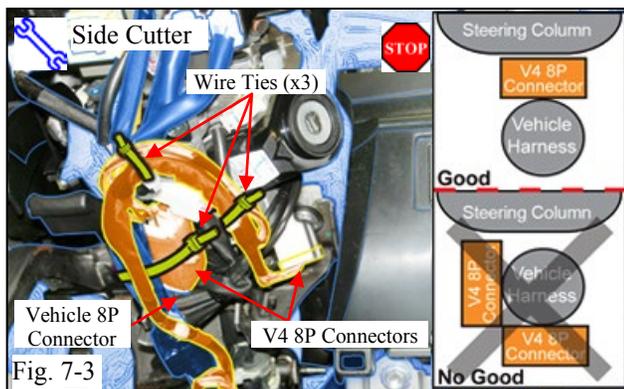
**7. V4 Harness Installation (Driver's Side)**

- (a) Route the V4 Harness toward the Steering Column. (Fig. 7-1)
- (b) Secure the V4 Harness to the Foam Tape wrapped Vehicle Brace with 1 Wire Tie. (Fig. 7-1)

**ONLY FOR VEHICLES WITH COLUMN MOUNT SHIFT LEVER AND MANUAL STEERING TILT (steps c-i)**



- (c) Secure the V4 Harness to the Vehicle Harness with 1 Wire Tie as shown. (Fig. 7-2)
- (d) Locate and disconnect the Vehicle's White 8P Ignition Connector. (Fig. 7-2)

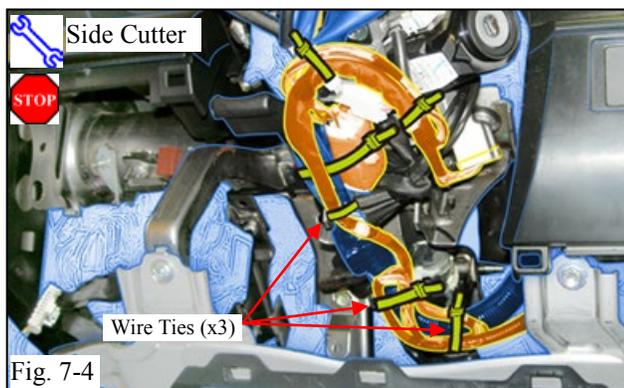


- (e) Plug in the V4 Harness 8P Connectors in between the Vehicle's 8P Ignition Switch Connectors. (Fig. 7-3)
- (f) Use 1 Wire Tie to secure the 8P Connectors to the Vehicle Harness. (Fig. 7-3)
  - (1) Rotate the ratchet end of the Wire Tie toward the Steering Column.



**NOTE:** Place the V4 8P Connector in reference to the illustration.

- (g) Use 2 Wire Ties to secure the V4 Harness to the Vehicle Harness. (Fig. 7-3)



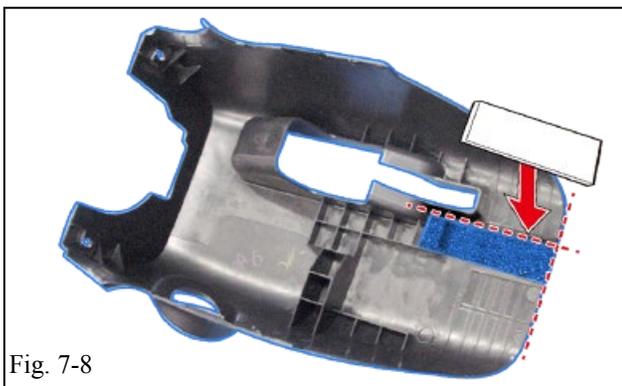
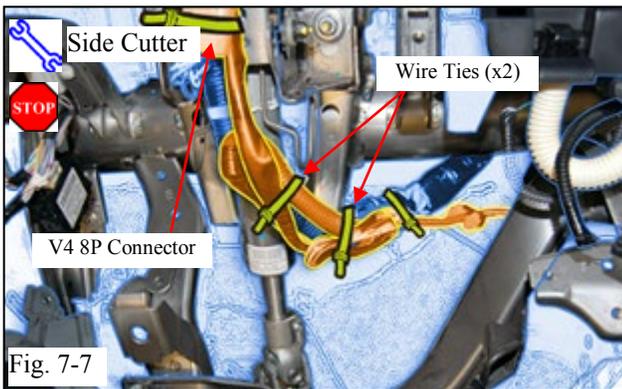
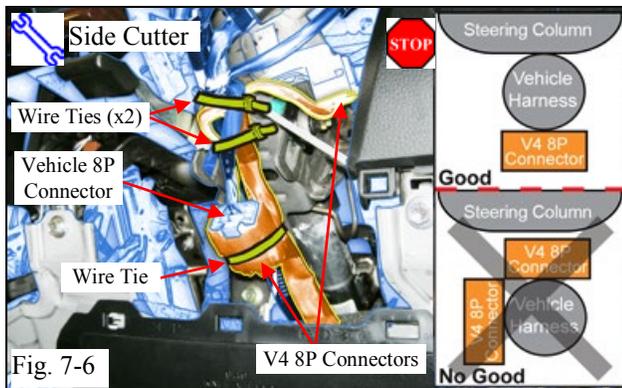
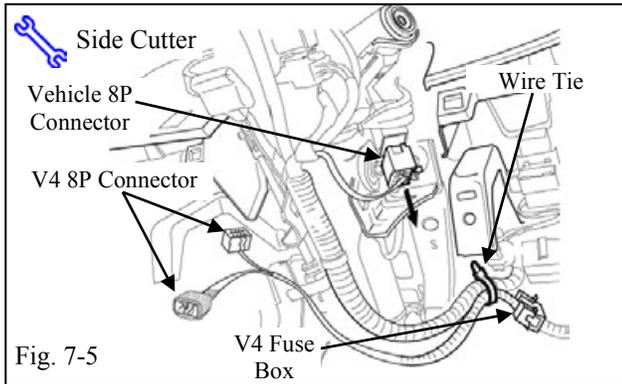
- (h) Use 1 Wire Tie to secure the V4 Harness to the Vehicle Harness. (Fig. 7-4)
  - (1) Rotate the ratchet end of the Wire Tie toward the Steering Column.

- (i) Fold the excess V4 Harness in half and use 2 Wire Ties to secure the V4 Harness to the Vehicle Harness. (Fig. 7-4)



- (1) Verify that Steering Column Tilts without interference.

**Skip to Section 8 (Page 23)**

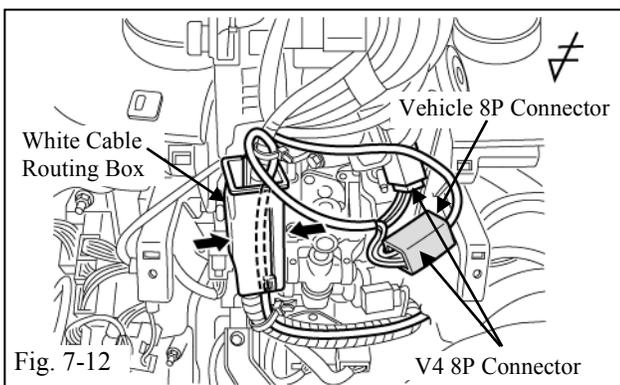
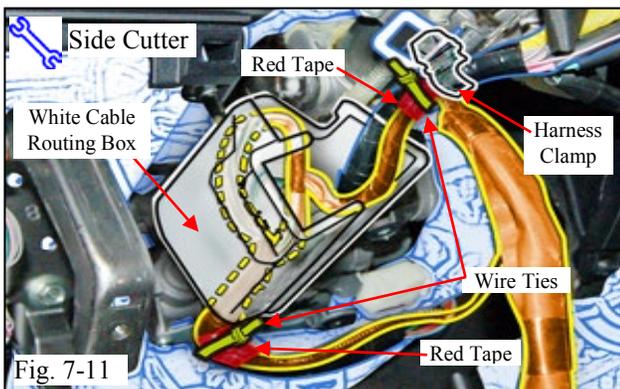
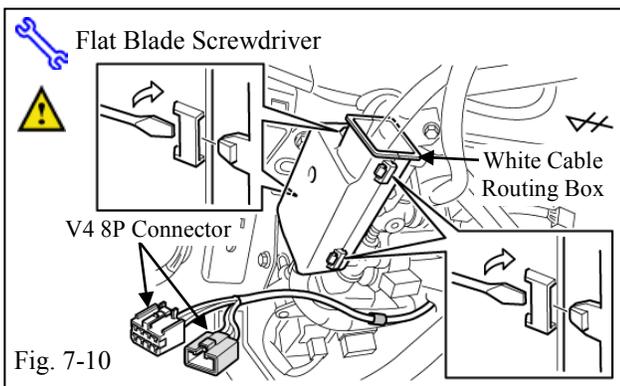
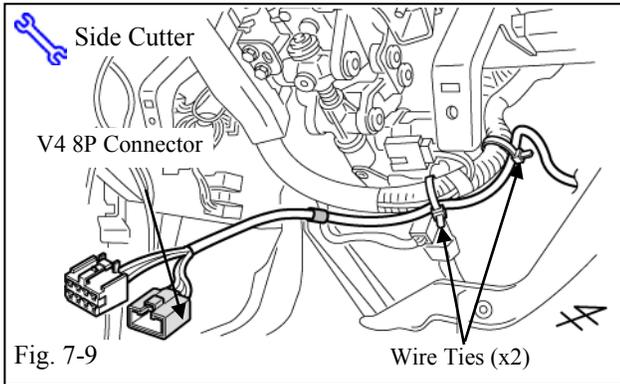


**ONLY FOR VEHICLES WITH FLOOR MOUNT SHIFT LEVER AND MANUAL STEERING TILT/TELESCOPE (steps j-r)**

- (j) Secure the V4 Harness to the Vehicle Harness with 1 Wire Tie as shown. (Fig. 7-5)
  - (k) Locate and disconnect the Vehicle's White 8P Ignition Connector. (Fig. 7-5)
  - (l) Pull the Steering Column to fully extend.
  - (m) Plug in the V4 Harness's 8P Connectors in between the Vehicle's 8P Ignition Switch Connectors. (Fig. 7-6)
  - (n) Use 2 Wire Ties to secure the V4 Harness to the Vehicle Harness. (Fig. 7-6)
  - (o) Use 1 Wire Tie to secure the 8P Connectors and V4 Harness to the Vehicle Harness. (Fig. 7-6)
    - (1) Rotate the ratchet end of the Wire Tie toward the Steering Column.
- STOP NOTE:** Place the V4 8P Connector in reference to the illustration.
- (p) Fold the excess V4 Harness in half and use 2 Wire Ties to secure the V4 Harness to the Vehicle Harness. (Fig. 7-7)
- STOP** (1) Verify that Steering Column Tilts and Telescopes without interference.
- (q) Using VDC approved cleaner and cleaning method, clean the area indicated on the Steering Column Cover. (Fig. 7-8)
  - (r) Apply 1 Small Foam Tape to the Steering Column Cover as shown. (Fig. 7-8)

**Skip to Section 8 (Page 23)**

**ONLY FOR VEHICLES WITH ELECTRONIC STEERING TILT. (steps s-bb)**



(s) Secure the V4 Harness to the Vehicle Harness with 2 Wire Ties.(Fig. 7-9)

(t) Open up the White Cable Routing Box. (Fig. 7-10)

**NOTE:** Do not damage the clips excessively. They will discolor slightly but should not be broken.

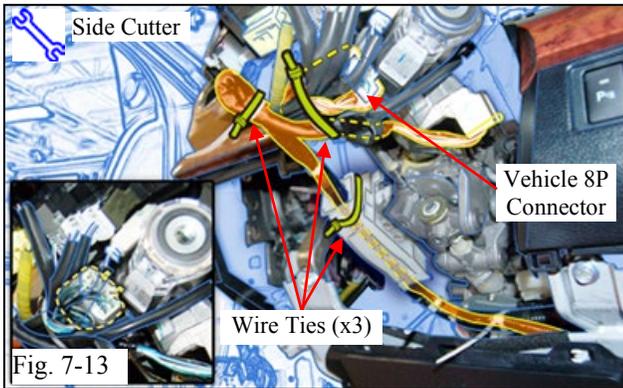
(u) Locate and secure the V4 Harness's 2 Red Tape Markers to the Vehicle Harness using 2 Wire Ties as shown. (Fig. 7-11)

(v) Loop the V4 Harness once inside of the White Cable Routing Box. (Fig. 7-11)

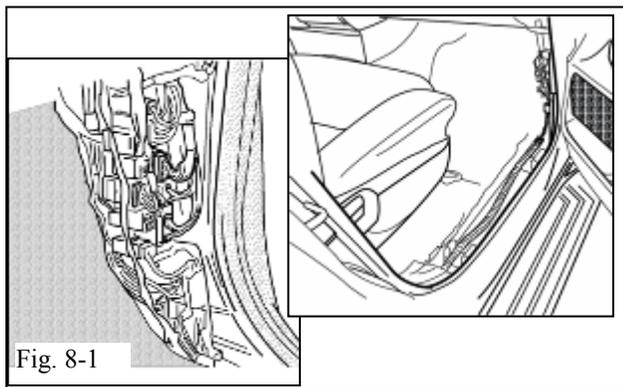
(w) Close the White Cable Wire Routing Box. (Fig. 7-12)

(x) Locate and disconnect the Vehicle's White 8P Ignition Connector. (Fig. 7-12)

(y) Plug in the V4 Harness's 8P Connectors in between the Vehicle's 8P Ignition Connectors. (Fig. 7-12)



- (z) Use 1 Wire Tie to secure the 8P Connectors to the Vehicle Harness. (Fig. 7-13)
- (aa) Use 1 Wire Tie to secure the V4 Harness to the Vehicle Harness. (Fig. 7-13)
- (bb) Use 1 Wire Tie to secure the White Cable Routing Box as shown. (Fig. 7-13)



### 8. Partial Reassembly.

- (a) Reassemble the Vehicle, except for the Passenger's Cowl Cover and Step Cover. (Fig. 8-1)



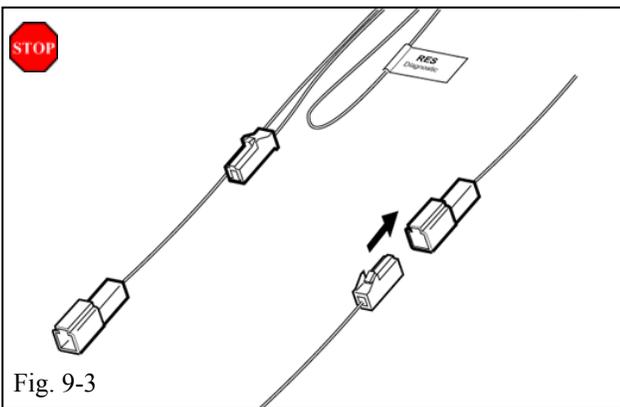
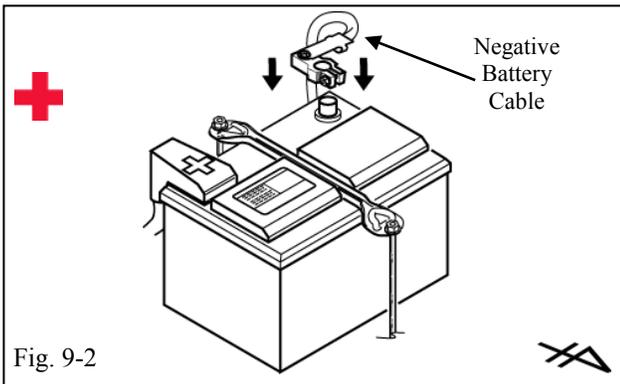
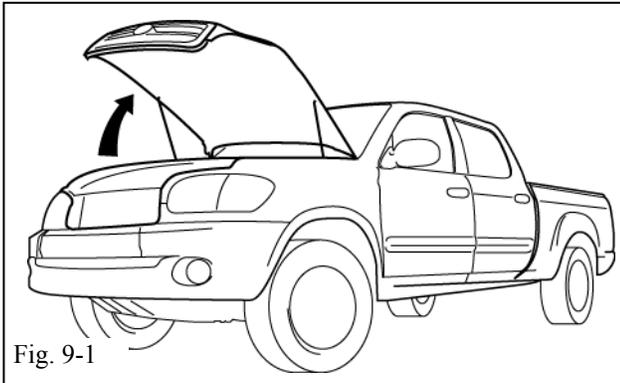
- (1) Verify Footwell Lamp is secured into DS Lower Dash Cover.



**NOTE:** When reinstalling the Passenger's Side Knee Airbag, make sure to tighten the Bolts to 88.5 in•lbf (10 N•m).



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



**VEHICLES WITHOUT IMMOBILIZER**

**9. Registration (steps a-m)**

(a) Open the Hood. (Fig. 9-1)

(b) Temporarily reconnect the Vehicle's Negative Battery Cable. (Fig. 9-2)

**CAUTION:** Do not touch the Positive terminal.

(c) Locate and remove the Tape securing the V4 Harness's 1P RES Diagnostic Connectors in the Passenger's Side Cowl Area and connect them. (Fig. 9-3)

**STOP** ONCE CONNECTED, YOU WILL HAVE 10 MINUTES TO COMPLETE STEPS d-k.

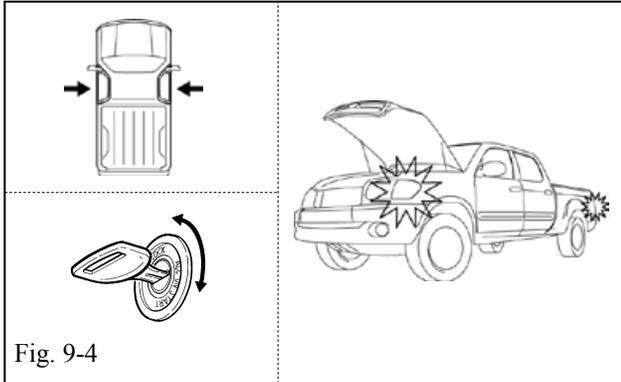


Fig. 9-4

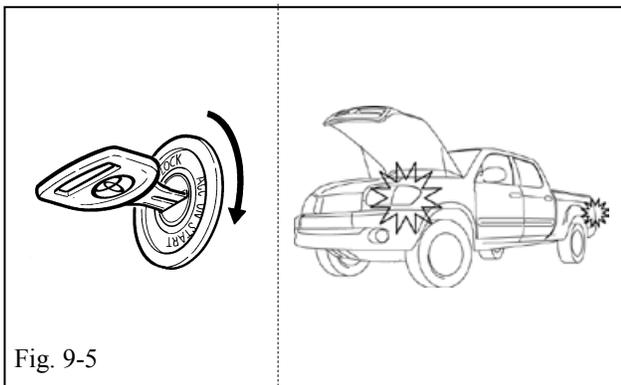


Fig. 9-5

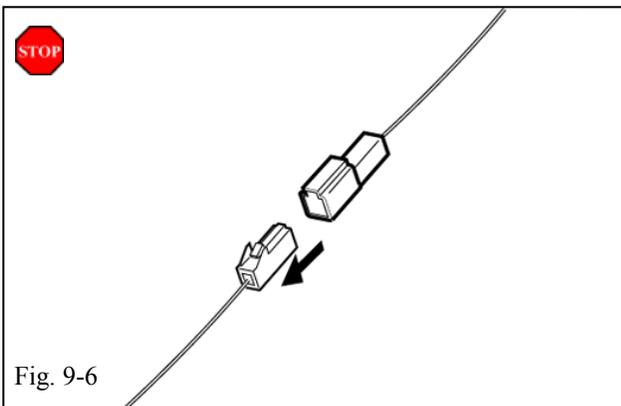


Fig. 9-6

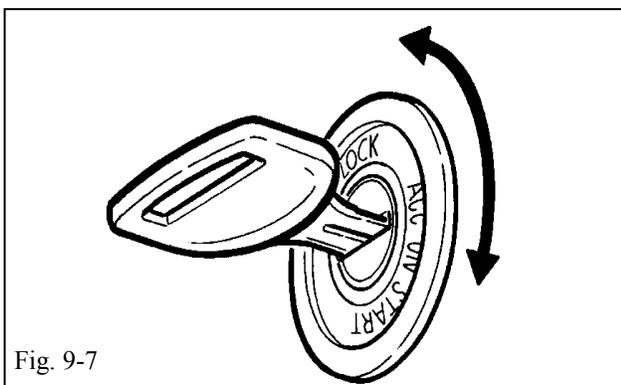


Fig. 9-7

(d) Close all doors. (Fig. 9-4)

(1) Do not close Hood.

(e) Insert the key into the ignition and turn it from "OFF" to "ON" 5 times. (Fig. 9-4)

**LOOK:** For the Hazard Lights to flash Once.

(f) Turn the key to the "OFF" position.

(g) Start the Engine. (Fig. 9-5)

(h) After 10 seconds stop the Engine.

**LOOK:** For the Hazard Lights to flash Once.

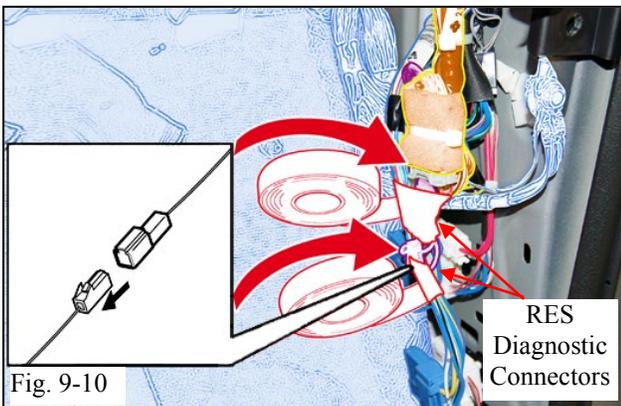
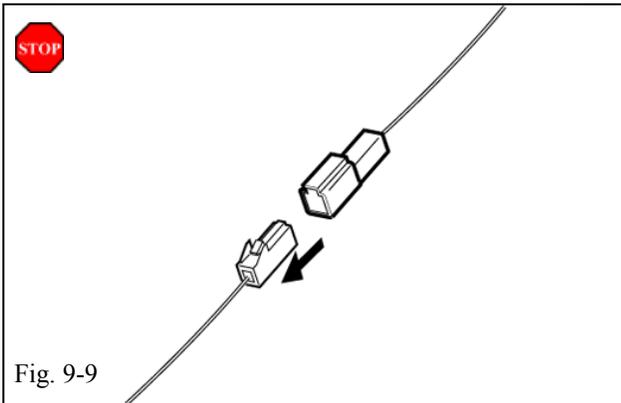
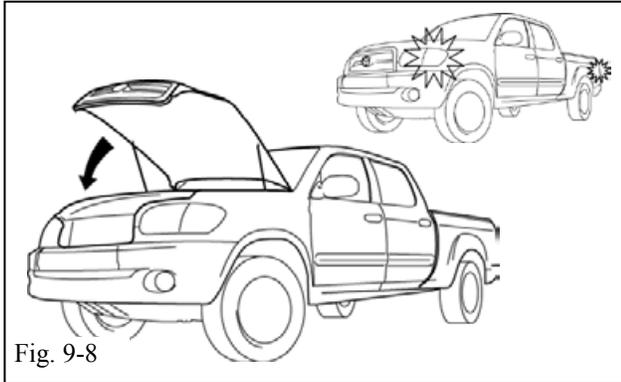


If this procedure failed, the Hazard Lights won't flash or will flash 2 times.

- Disconnect the V4 Harness's White 1P Connectors in the Passenger's Side Cowl Area. (Fig. 9-6)
- Start again from step c.

(i) Turn the key from "OFF" to "ON" 5 times. (Fig. 9-7)

(1) Ending in the "OFF" position.



(j) Remove the Key from the Ignition Switch and Exit the vehicle.

(k) Close the Hood. (Fig. 9-8)

**LOOK:** For the Hazard Lights to flash Once.



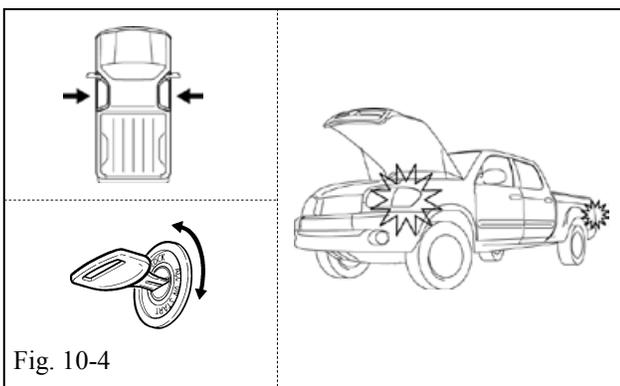
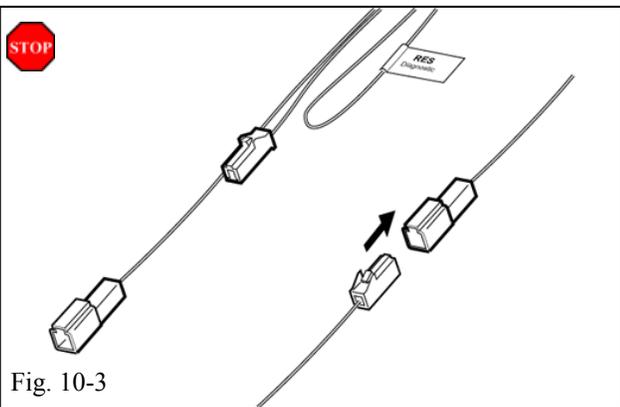
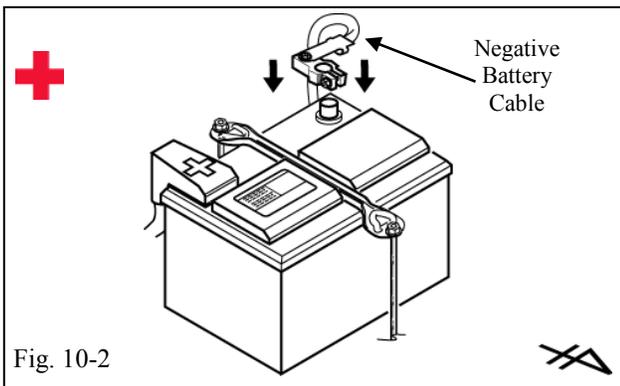
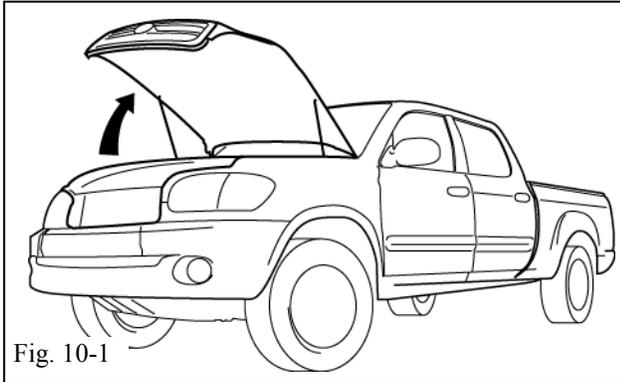
If this procedure failed, the hazard Lights flash 3 times.

- Disconnect the V4 Harness's White 1P Connectors in the Passenger's Side Cowl Area. (Fig. 9-9)
- Start again from step c.

(l) After a Successful Registration disconnect the V4 Harness's White 1P Connectors. (Fig. 9-10)

(m) Secure the 1P Diagnostic Connectors to the Vehicle Harness with Electrical Tape. (Fig. 9-10)

**Skip to Section 11 (Page 31)**



**VEHICLES WITH IMMOBILIZER**

**10. Registration (steps a-z).**

(a) Open the Hood. (Fig. 10-1)

(b) Temporarily reconnect the Vehicle's Negative Battery Cable. (Fig. 10-2)

**+** **CAUTION:** Do not touch the Positive terminal.

(c) Locate and remove the Tape securing the V4 Harness's 1P RES Diagnostic Connectors in the Passenger's Side Cowl Area and connect them. (Fig. 10-3)

**STOP** **ONCE CONNECTED YOU WILL HAVE 10 MINUTES TO COMPLETE STEPS d-x.**

(d) Close all doors. (Fig. 10-4)

(1) Do not close the Hood.

(e) Insert the key into the ignition. (Fig. 10-4)

(f) Turn it from "OFF" to "ON" 5 times. (Fig. 10-4)

**LOOK:** For the Hazard Lights to flash Once.

(g) Turn the key to the "OFF" position.

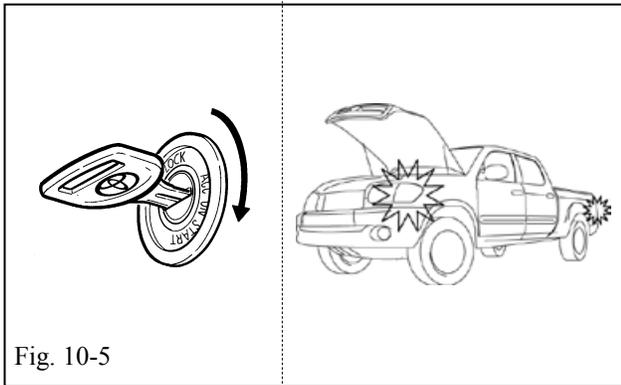


Fig. 10-5

(h) Start the Engine. (Fig. 10-5)

(i) After 10 seconds stop the Engine. (Fig. 10-5)

**LOOK:** For the Hazard Lights to flash Once.

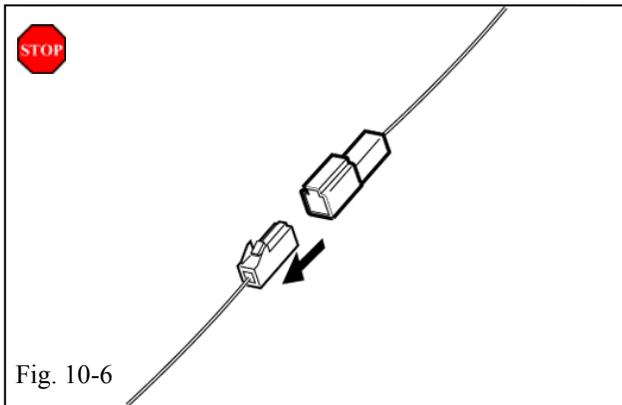


Fig. 10-6



If this procedure failed, the Hazard Lights won't flash or will flash 2 times.

- Disconnect the V4 Harness's White 1P Connectors in the Passenger's Side Cowl Area. (Fig. 10-6)
- Start again from step (c).

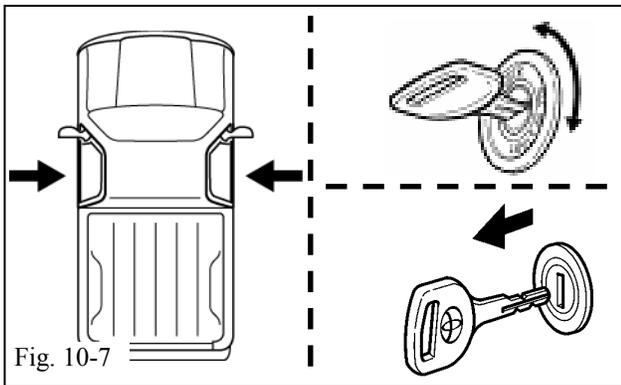


Fig. 10-7

(j) Verify that all doors are closed. (Fig. 10-7)

(1) Do not close the Hood.

(k) Turn the Key to the "ON" position and back to the "OFF" position. (Fig. 10-7)

(l) Remove the Key from the ignition switch. (Fig. 10-7)

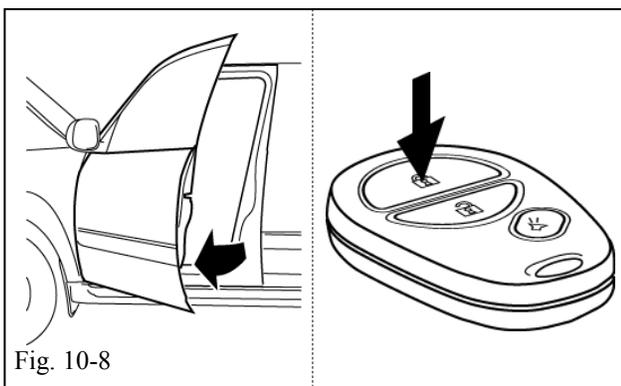


Fig. 10-8

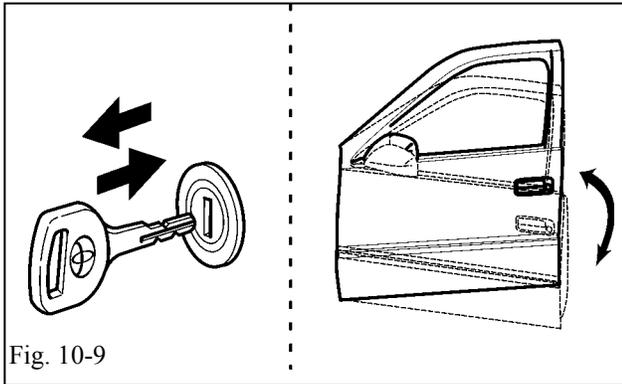
(m) Open the Driver's Door. (Fig. 10-8)



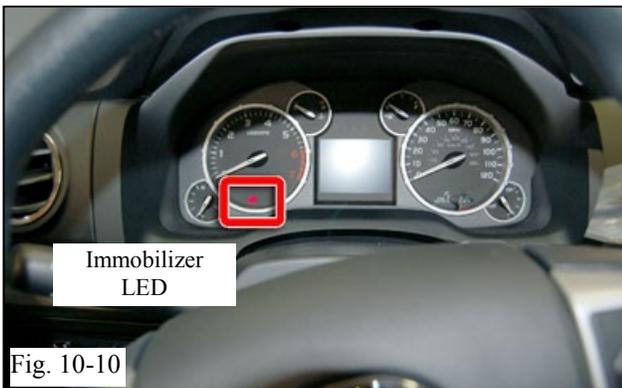
ONCE OPEN, YOU HAVE 20 SECONDS TO COMPLETE STEPS n-q.

(n) Using the Remote, press the Lock Button twice within 2 seconds. (Fig. 10-8)

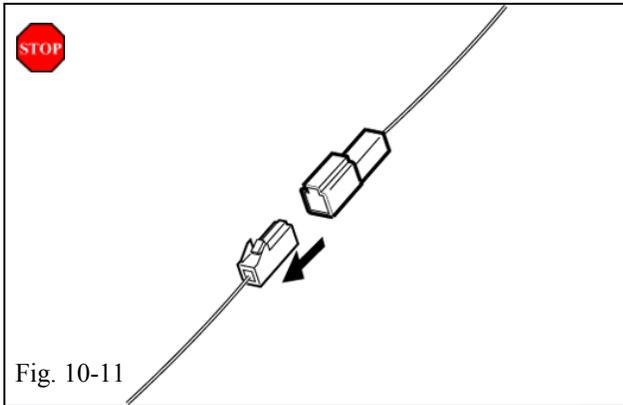
(o) Press and hold the lock button for 4 seconds. (Fig. 10-8)



- (p) Insert the Key into the ignition. (Fig. 10-9)
- (q) Remove and insert the Key into the ignition 6 times. (Fig. 10-9)
- (r) Turn the Key to the "ON" position.
- (s) Close the Driver's Door.
- (t) Open and close the Driver's Door 7 times ending in the Close position. (Fig. 10-9)
  - (1) Complete these steps within 35 seconds.

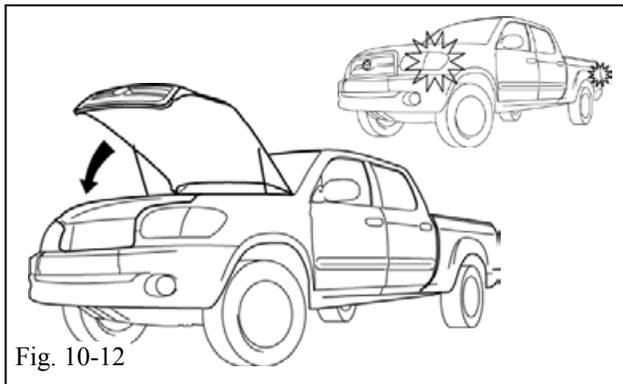


- LOOK:** for the Immobilizer LED to turn On for 1 Second and then turn Off
- (u) After 1 second, look for the LED to turn on and stay on. (Fig. 10-10)
  - (v) Remove the Key from the Ignition Switch.
- LOOK:** For the Immobilizer LED to turn Off.



If this procedure failed, registration has failed.

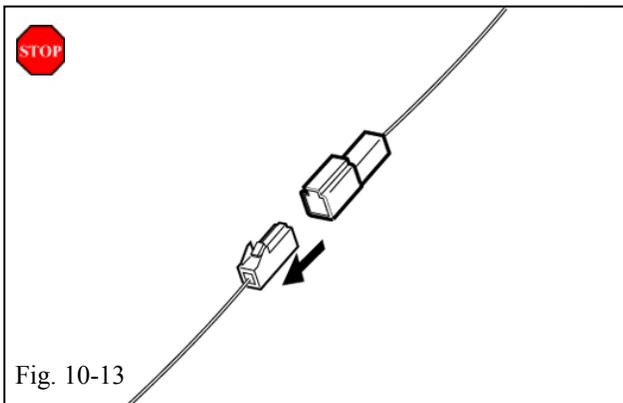
- Disconnect the V4 harness's White 1P Connector from the Passenger's Side Cowl Area. (Fig. 10-11)
- Start again from step (c).



(w) Exit the Vehicle.

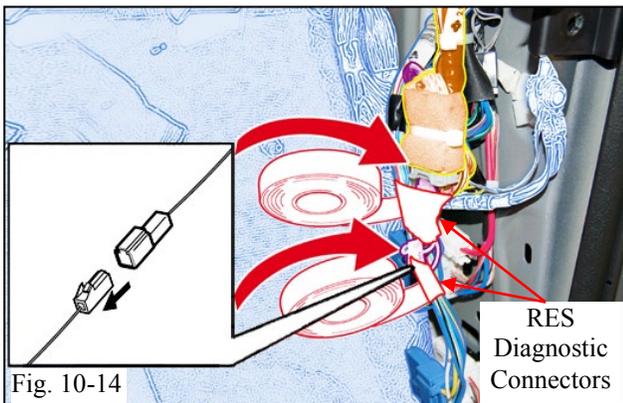
(x) Close the Hood. (Fig. 10-12)

**LOOK:** For the Hazard Lights to flash Twice.



If this procedure failed, the Hazard Lights will flash 3 times.

- Disconnect the V4 Harness's White 1P Connector in the Passenger's Side Cowl Area. (Fig. 10-13)
- Start again from Step (c).



(y) After a Successful Registration disconnect the V4 Harness's White 1P Connectors (Fig. 10-14)

(z) Secure the 1P Diagnostic Connectors to the Vehicle Harness with Electrical Tape. (Fig. 10-14)

11. Tags and Label Installation.

For US Vehicles use the English Labels and Dispose of the Spanish Labels.

For Mexico Vehicles use the Spanish Labels and Dispose of the English Labels.

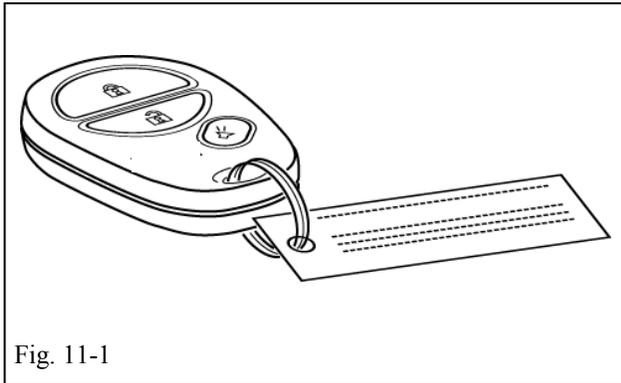


Fig. 11-1

(a) Remove 2 of the Remote Controls from their protective bag.

(1) Use a Utility Knife, to cut a slit in each bag.

(b) Attach the Remote Engine Starter Key Tags to the Vehicle Remotes. (Fig. 11-1)

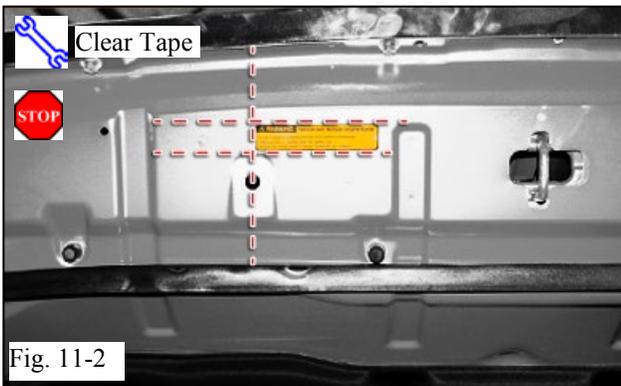


Fig. 11-2

(c) Using VDC approved cleaner and Cleaning Method, clean the area indicated on the Vehicle Hood. (Fig. 11-2)

(d) Attach the Warning Label to the Vehicle Hood on the Left Hand Side as shown. (Fig. 11-2)



**CAUTION:** Do not touch the adhesive surface.

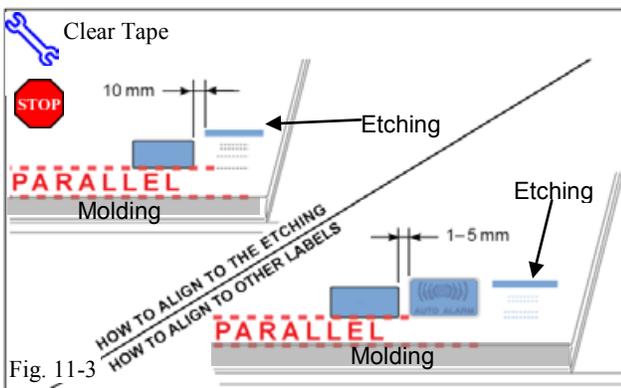


Fig. 11-3

(e) Use Household Glass Cleaner to clean the inside of the Front Door Window.

(f) Use a piece of Clear Tape to lift the Label from the protective backing.



**CAUTION:** Do not touch the adhesive surface.

(g) Attach the Window Label.(Fig. 11-3)



**NOTE:** Make sure to Align according to Etching or Other Label. (Fig. 11-3)

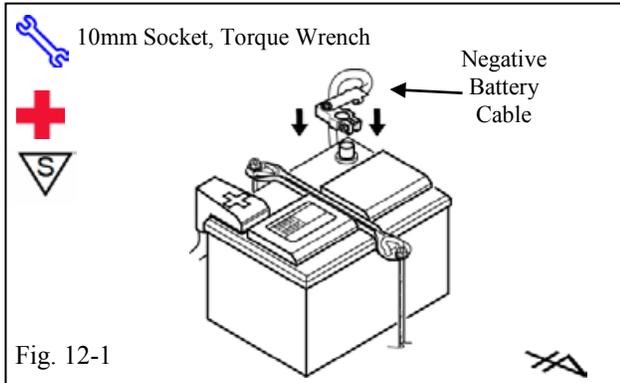
**REPEAT:** steps e–g with the other Window.

12. Completing the Installation.

(a) Complete the reassembly of the vehicle.

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

**STOP** **VERIFY:** That all Connectors are reconnected.



(b) Position the Negative Battery Cable at the original factory position. (Fig. 12-1)

**S** (1) Tighten the Nut to **48 in•lbf (5.4 N•m)**.

**+** **CAUTION:** Do not touch the Positive terminal.

(c) Clean up and remove any Trash.

(d) Sealed in its protective bag, place the Owner's Manual in the glove box.

**Accessory Function Checks**

Close the hood, enter the vehicle and close all doors. Place the shift lever in the “P” (Park) position, set the parking brake and make sure the Vehicle is off.

<b>Perform</b>		<b>Look For</b>
1	Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button for 3 seconds.	The hazard lights flash after 3 seconds. The engine starts. The hazard lights flash repeatedly for 20 seconds.
2	With the engine running, pull the hood release handle.	The engine stops. The hazard lights flash once. The security alarm triggers. (only if equipped with OE Factory Alarm, not Genuine Accessory alarm, and only if armed)
3	Move the shift lever out of “P” (Park). Attempt to start the Vehicle using the remote.	The engine does not start.

**Vehicle Appearance Check**

<b>Perform</b>		<b>Look For</b>
<input type="checkbox"/>	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**

<input type="checkbox"/> Dome/Courtesy Lights	<input type="checkbox"/> Steering Wheel Column Adjusts Without Interference
<input type="checkbox"/> Horn	<input type="checkbox"/> Hood Latch Release

**Start the Vehicle**

<input type="checkbox"/> Starter	<input type="checkbox"/> Gauges
<input type="checkbox"/> Check Engine Light <i>If the warning light remains on, it may indicate a system malfunction.</i>	<input type="checkbox"/> ABS Light (if equipped) <i>If the warning light remains on, it may indicate a system malfunction.</i>
<input type="checkbox"/> Lamp Failure Sensor <i>If the warning light remains on, it may indicate a system malfunction.</i>	<input type="checkbox"/> Track/Skid Control Light (if equipped) <i>If the warning light remains on, it may indicate a system malfunction.</i>
<input type="checkbox"/> Seat Belt Warning Light <i>If the warning light remains on, it may indicate a system malfunction.</i>	<input type="checkbox"/> Tire Pressure Monitoring System (TPMS) <i>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.</i>
<input type="checkbox"/> Air Bag Warning Light <i>If the warning light remains on, it may indicate a system malfunction.</i>	
<input type="checkbox"/> Cruise Control Light (if equipped)	<input type="checkbox"/> Trailer Brake Controller (if equipped) <i>If an error message is displayed on the vehicle multi-information display, it may indicate a system malfunction.</i>

**Using a Mirror or Assistant check the following.**

<input type="checkbox"/> Trunk/Tailgate/Bed Lights (if equipped)	<input type="checkbox"/> Tail Lights
<input type="checkbox"/> Brake Lights	<input type="checkbox"/> Daytime Running Lights (if equipped)
<input type="checkbox"/> Backup Lights	<input type="checkbox"/> Marker Lights
<input type="checkbox"/> Clearance Sonar (if equipped)	

**Stop the Engine, Place the Vehicle's IG in the ON position.**

<input type="checkbox"/> Hazard Lights	<input type="checkbox"/> Turn Signal Lights
<input type="checkbox"/> Head Light	<input type="checkbox"/> Fog Lights (if equipped)
<input type="checkbox"/> High Beams	<input type="checkbox"/> Accessory Controls/Illumination (if equipped)
<input type="checkbox"/> Power Side Mirrors (if equipped)	<input type="checkbox"/> Convenience Memory Settings (if equipped)
<input type="checkbox"/> Power Sliding Door (if equipped)	<input type="checkbox"/> Rear Sunshade (if equipped)

Function		Function	
<input type="checkbox"/>	Front Wiper/Washer	<input type="checkbox"/>	Rear Wiper/Washer (if equipped)
<input type="checkbox"/>	Power Sun/Moon Roof (if equipped)	<input type="checkbox"/>	Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)
<input type="checkbox"/>	Clock (if equipped)	<input type="checkbox"/>	Navigation System (if equipped)
<input type="checkbox"/>	Audio/Video (if equipped)	<input type="checkbox"/>	HVAC
<input type="checkbox"/>	Steering Wheel Audio Control (if equipped)	<input type="checkbox"/>	Rear Window Defogger (if equipped)
<input type="checkbox"/>	Front Windshield Defogger (if equipped)	<input type="checkbox"/>	Accessory Power Socket (if equipped)
<input type="checkbox"/>	Side Mirror Defogger (if equipped)	<input type="checkbox"/>	Heated/Vented Seats (if equipped)
<input type="checkbox"/>	Massage Seats (if equipped)		
<input type="checkbox"/>	Glovebox Light (if equipped)	<input type="checkbox"/>	Passenger Air Bag Switch (if equipped)
<input type="checkbox"/>	Power Locks (if equipped)	<input type="checkbox"/>	Power Windows (if equipped)
<input type="checkbox"/>	Power Seats (if equipped)	<input type="checkbox"/>	Key Sensor Buzzer

**Remove the short pin after Function check.**  
 Check with your Port/Dealer to see if this step is necessary.

