



KIA MOTORS

KIA Genuine Accessories

Vehicle Model Sorento (Push Button)
Model Year 2014 ~
Part No. 1U056 ADU10

Accessory
Difficulty



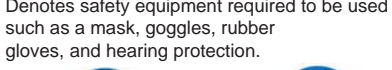








Remote Engine Start
(B)

Note: Difficulty stated above reflects the minimum level of expertise required to install the accessory



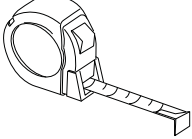
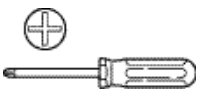

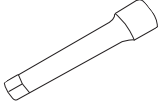
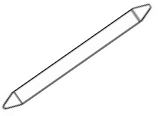
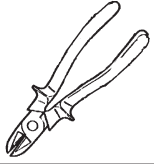

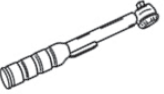
(A) Customer (B) Dealer Technician (C) Master Technician

Ensure vehicle is equipped with automatic transmission, power door locks and power windows. If the vehicle is not equipped with these options, do not proceed. Ensure vehicle DOES have SMART KEY.

Instruction Symbols / Definitions

 Denotes warnings that may lead to serious physical injury or vehicle damage.	 Denotes quality processes to be checked prior to moving to the next step.	 Denotes safety equipment required to be used such as a mask, goggles, rubber gloves, and hearing protection.
 Denotes cautions to be taken to avoid physical injury or electronic component damage.	 Denotes specific tools that are necessary to complete the step.	 Mask
 Denotes cautions to be taken to avoid vehicle and component damage.	 Denotes instructional steps necessary to complete the process.	 Goggles  Rubber Gloves  Hearing Protection

Basic Required Hand Tools

		
Ratchet	10 mm Socket	Tape Measure
		
#2 Phillips Screwdriver	Pliers	Extension
		
Trim Tool	Wire Cutters	Alcohol Cleaner / Clean Cloth
		
Torque Wrench		

Notes to the Installer:

Read the entire installation manual prior to beginning the installation of the accessory.

Factory wire harness colors are subject to change, please use the specified pin # in the harness connector to identify the correct wire for T-Tap installation.

Ensure that the vehicle is properly protected in the area that the accessory is to be installed.

To prevent vehicle damage, never place tools on top of painted surfaces, seats, dash pad, console or floor carpet / mat.

Always wear appropriate safety gear to include gloves and eye protection when required.

To prevent stress on the remote start wire harness, ensure the tilt/telescopic steering column is fully extended, if equipped.

Ensure the transportation fuse is properly installed before performing the function check on page 21.

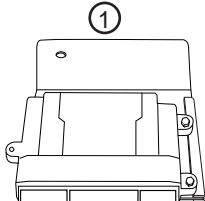


Technical Support

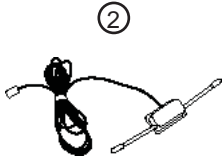
For Authorized Dealers - (800) 667-5176

Hours: 9:00 a.m. - 5:30 p.m. EST Monday - Friday


KIA Genuine Accessories




Control Module P/N: U8560 00002
DNA P/N: 1U056 ADUS4



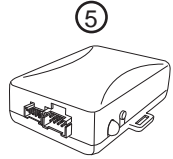
P/N: 00056 ADU50




P/N: U8560 00009



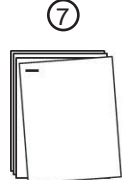
P/N: 1U056 ADUS5




P/N: 1U056 ADUS6
(Secured to Wire Harness)




Hardware Kit




Installation Instructions



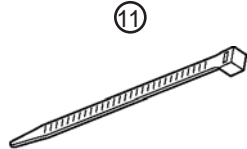
Owner's Guide



Quick Reference Guide








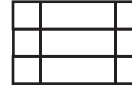
Warning Label



15" Wire Tie (Large)

No.	Qty.	Description	No.	Qty.	Description
1	1	Control Module/DNA	7	1	Installation Instructions
2	1	Dipole Antenna	8	1	Owner's Guide
3	2	Transmitters	9	1	Quick Reference Guide
4	1	Wire Harness	10	1	Warning Label
5	1	CAN Interface Module	11	3*	15" Wire Tie (Large)
6	1	Hardware Kit			

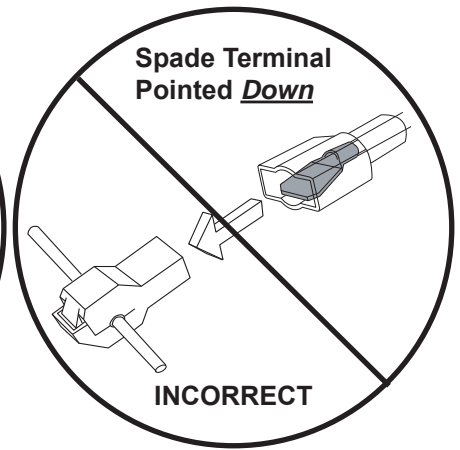
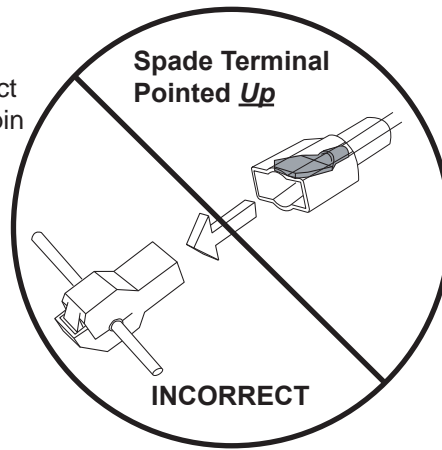
Hardware Kit Contents

A		B		C		D	
	12* 8" Wire Tie (Small)		2* Female T-Tap		3 Foam Tape (Small)		1 M6 Serrated Flange Hex Nut
E		F		Hardware Kit Total			
	4* Foam Tape (Large)		3* Wire Strap	25			

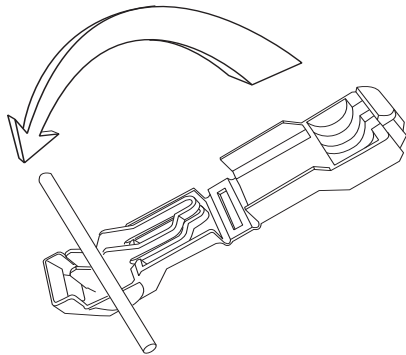
* Extra components intentionally placed in kit as spares. Please follow directions for proper placement of each component.

T-Tap Installation Procedure

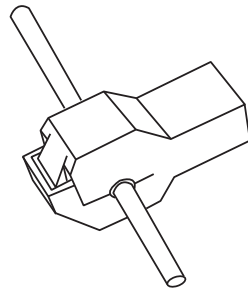
Factory wire harness colors are subject to change. Please use the specified pin # in the harness connector to identify the correct wire for T-Tap installation.



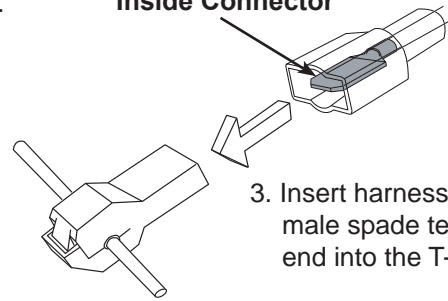
1. Place T-Tap on vehicle wire.



2. Using pliers, close and crimp T-Tap around vehicle wire.

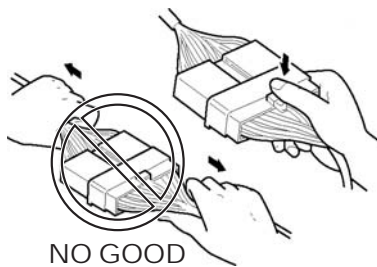


CORRECT
Spade Terminal CENTERED
Inside Connector



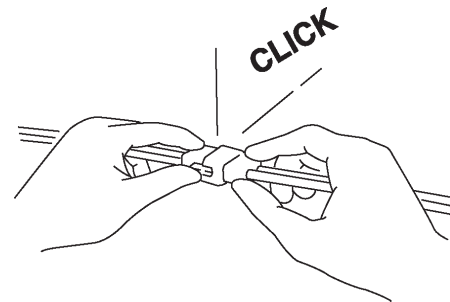
3. Insert harness wire with male spade terminal end into the T-Tap.

**** Extreme care must be taken to ensure that the male spade terminal is inserted into the T-Tap properly.**



Disconnecting Connectors

When disconnecting connectors, grasp the connectors, not the wires.

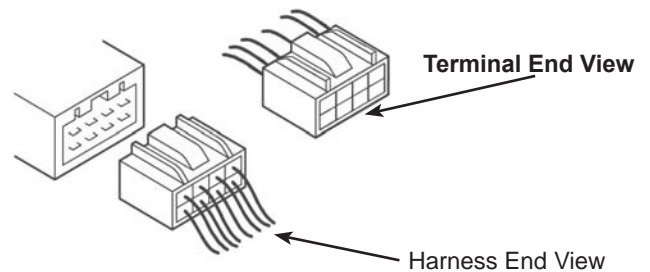
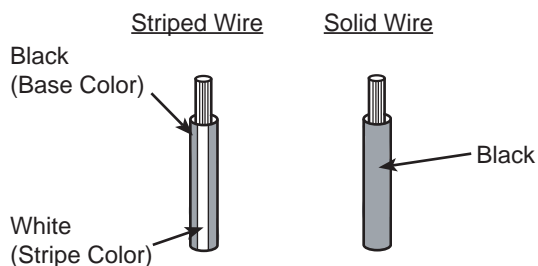


Locking Connectors

When locking connectors, listen for a click indicating they are securely locked.

Wire Colors

When a two-color wire is listed, the first color indicates the base color of the wire, the second color indicates the color of the stripe. For example: Black/White.



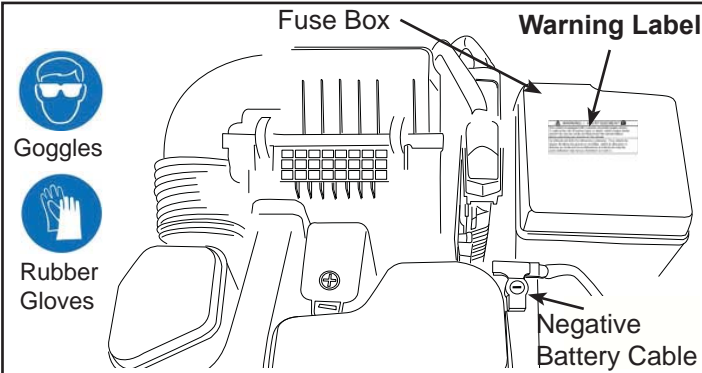
Connector Diagrams

Connector diagrams may be shown on the harness side or the terminal side, extreme care must be taken to verify proper terminal location before a T-Tap connection is made.

Vehicle Preparation

0

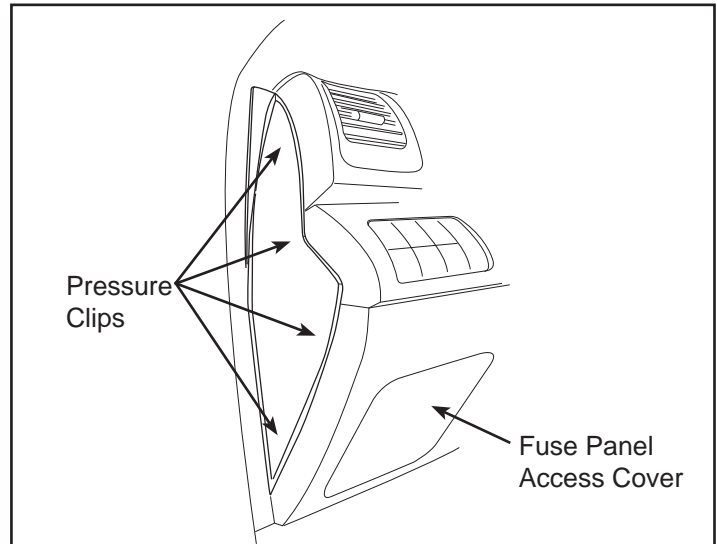
1. Clean hands.
2. Set the parking brake and open driver's door window.
3. Vehicle should be at room temperature.
4. **Ensure vehicle is equipped with automatic transmission, power door locks and power windows. If the vehicle is not equipped with these options, do not proceed. Ensure vehicle DOES have SMART KEY.**
5. **ENSURE THE TILT/TELESCOPIC STEERING WHEEL COLUMN IS FULLY EXTENDED AND LOCKED BEFORE INSTALLING THIS ACCESSORY.**



Ratchet, 10 mm Socket, Alcohol Cleaner and Clean Cloth **1**

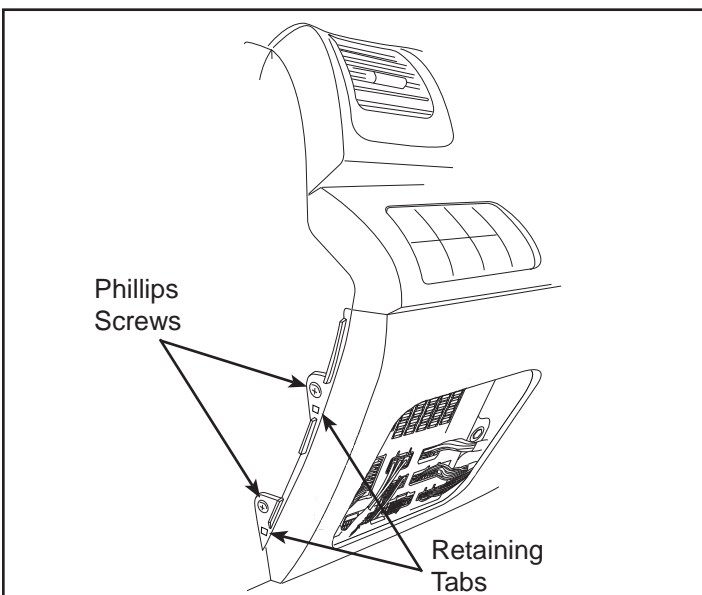
- NOTE**
1. Remove and isolate the negative battery cable from the battery.
 2. Using alcohol and a clean cloth, clean the top surface of the underhood fuse box. Ensure the surface is completely dry.
 3. Remove the backing on the warning label and mount in place, as shown above.

WARNING! Shock Hazard. Do not touch vehicle's negative battery terminal to vehicle's positive battery terminal. Serious physical injury or vehicle damage may occur.



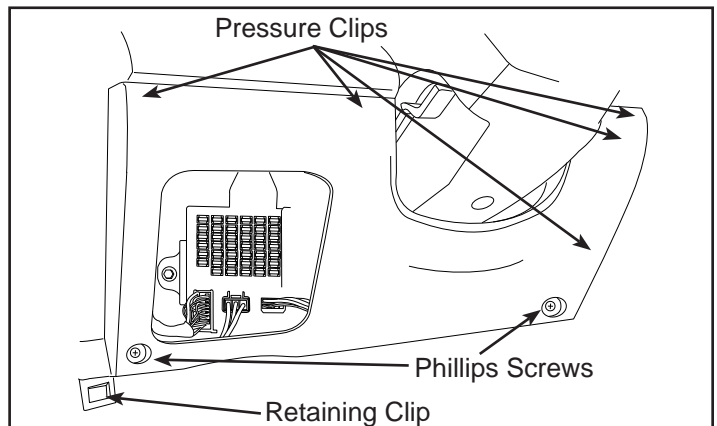
Trim Tool **2**

- NOTE**
1. Remove the fuse panel access cover to assist in the removal of the driver's side dash end cap panel.
 2. Remove the driver's side dash end cap panel by prying outward to disengage the four (4) pressure clips.



#2 Phillips Screwdriver **3**

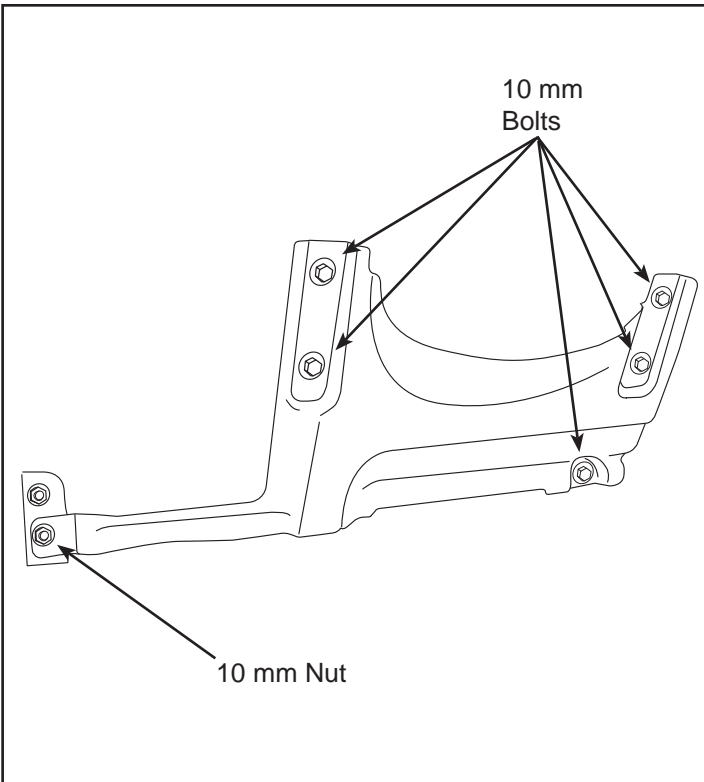
- NOTE**
1. Remove the two (2) #2 phillips screws from the side of the lower dash finish panel.




#2 Phillips Screwdriver and Trim Tool **4**

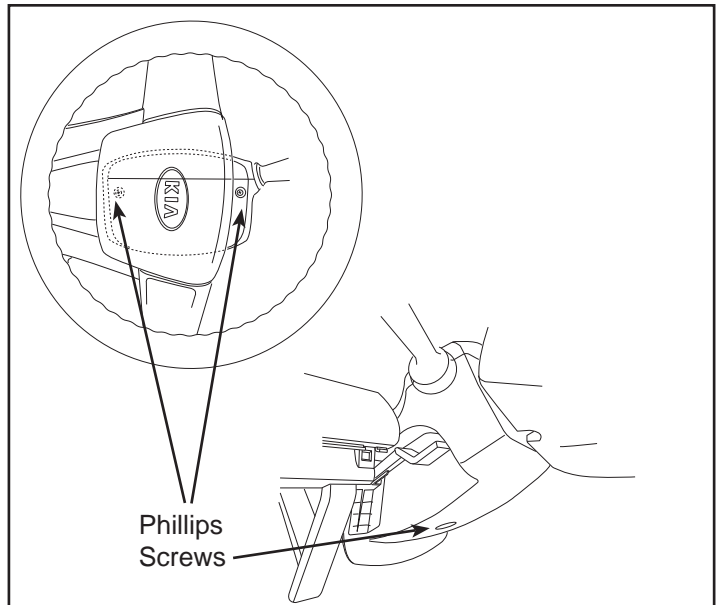
- NOTE**
1. Remove the lower dash finish panel by removing the two (2) #2 phillips screws from the bottom of the panel. Using a trim tool, carefully pry outward to release the two (2) retaining tabs from the side, as shown in Step 3 and the five (5) pressure clips from the front of the panel.
 2. Disengage the driver side kick panel retaining clip from the lower dash finish panel.
 3. Remove the OBDII connector from the panel.
 4. Disconnect the remaining connectors, if equipped.

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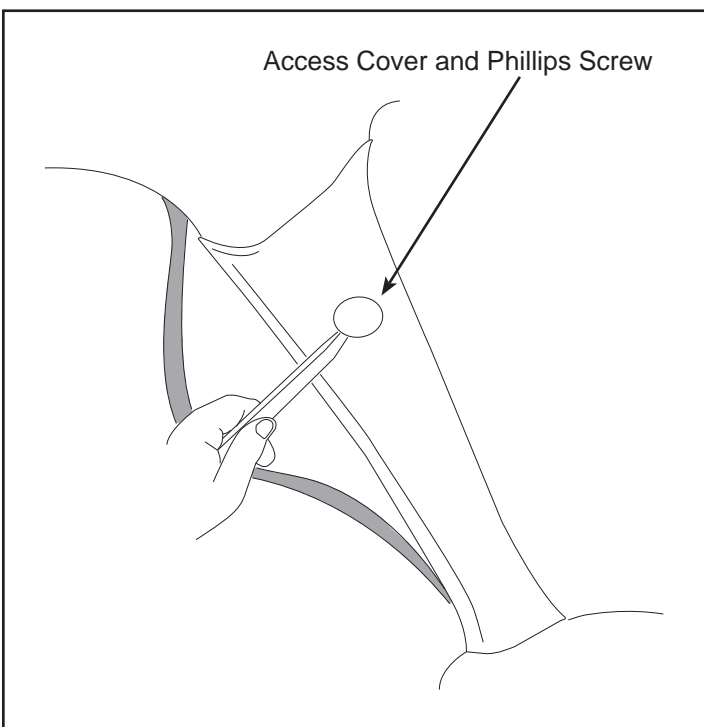
 Ratchet, Extension and 10 mm Socket **5**

- N O T E**
1. Remove the five (5) 10 mm bolts and the one (1) 10 mm nut securing the steel knee bolster panel.
 2. Remove the steel knee bolster panel from the vehicle.



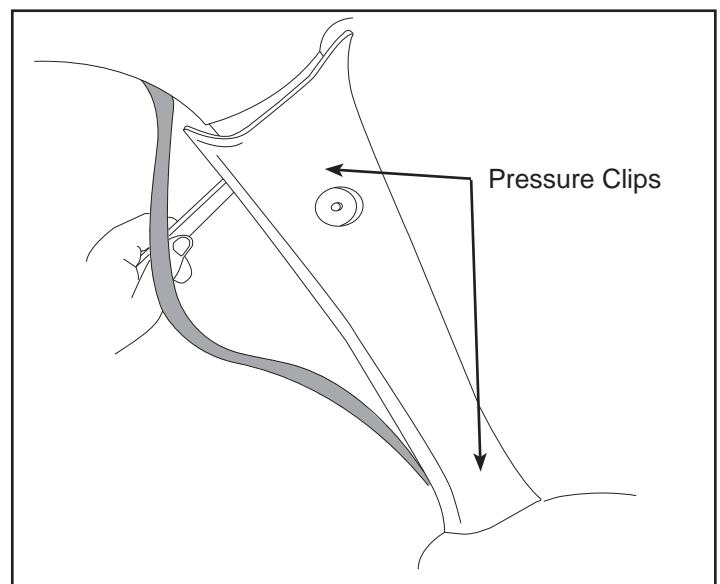
 #2 Phillips Screwdriver and Trim Tool **6**

- N O T E**
1. Ensure the tilt/telescopic steering column is fully extended and locked.
 2. Remove the three (3) #2 phillips screws securing the steering column shroud (one (1) underneath and two (2) behind the steering wheel). Turn the steering wheel for access.
 3. Release the tilt steering wheel adjuster lever.
 4. Pull down to separate the lower steering column shroud (use trim tool, if necessary) and remove from the vehicle.





 Trim Tool and #2 Phillips Screwdriver **7**

- N O T E**
1. Carefully pull the weatherstrip away from the driver's side "A" pillar.
 2. Remove the access cover and the one (1) #2 phillips screw from the "A" pillar.

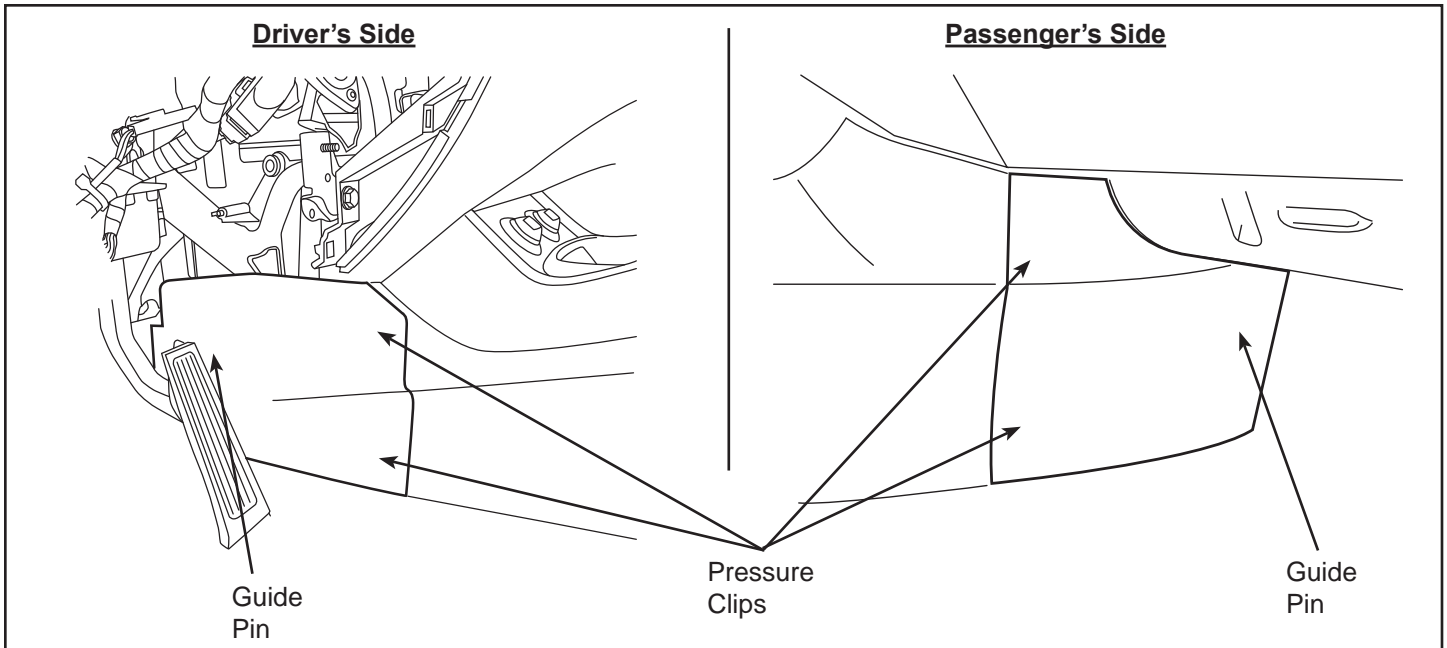


 Trim Tool **8**

- N O T E**
1. Starting at the top, use a trim tool and remove the driver's side "A" pillar trim panel by inserting the tool behind the panel and prying outward to release the two (2) pressure clips.

-  **WARNING! Do not damage air bag components.**
-  **CAUTION! Do not lose the two (2) pressure clips.**

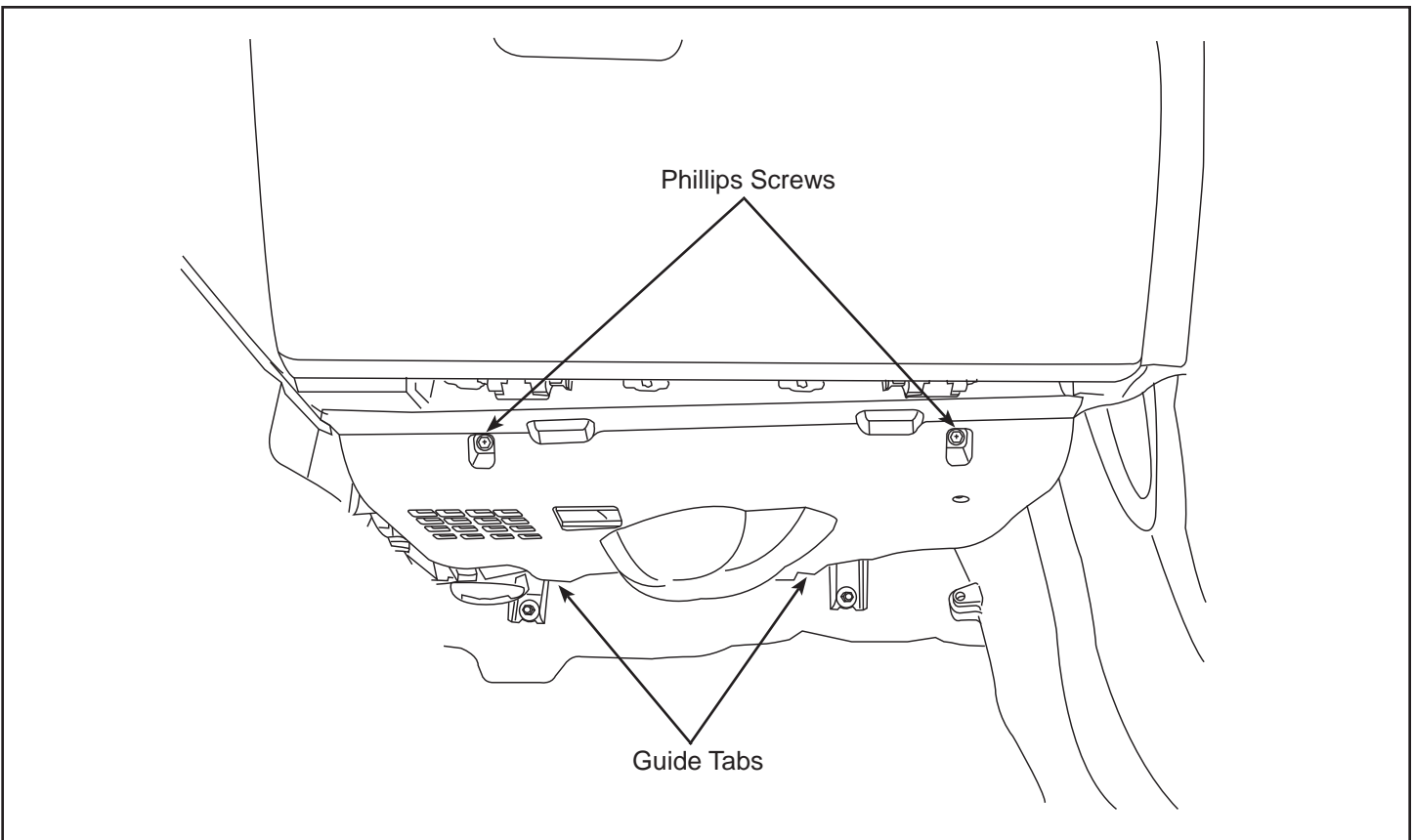
KIA Genuine Accessories



Trim Tool

9

- NOTE**
1. Remove the Driver's and Passenger's side lower front console trim panels by disengaging the two (2) pressure clips.
 2. Pull the panel(s) toward the rear of the vehicle to release from the guide pin(s).

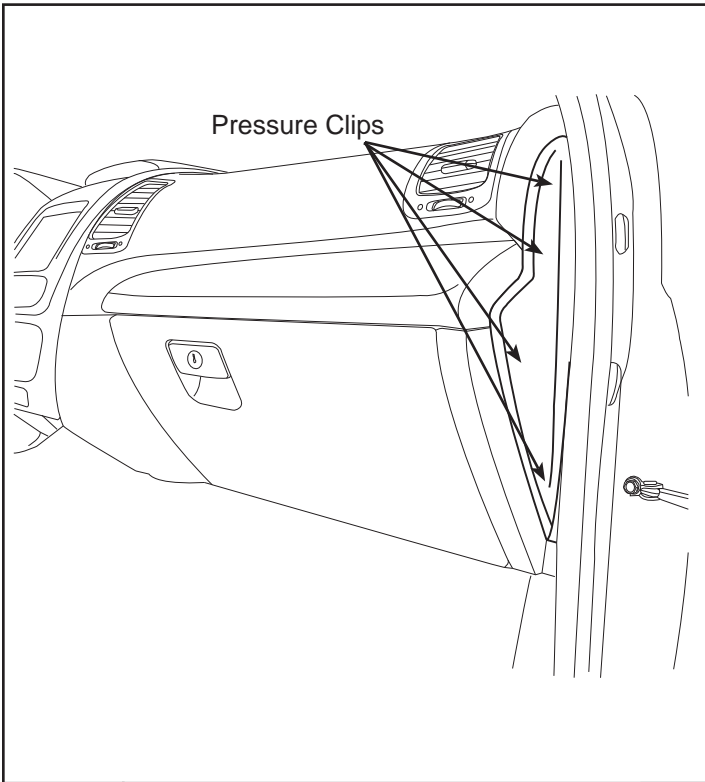


#2 Phillips Screwdriver

10

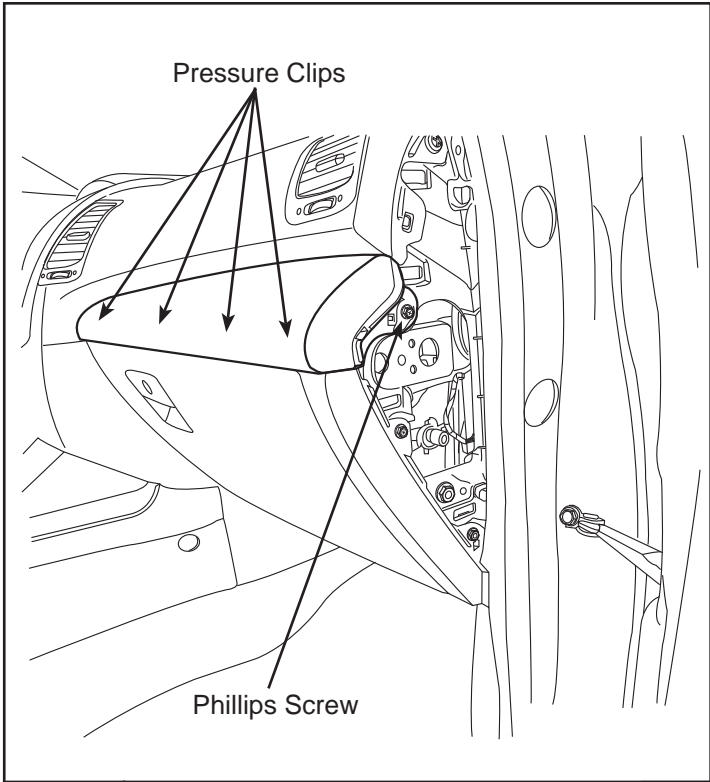
- NOTE**
1. Remove the two (2) phillips screws from the front edge of the lower dash trim panel under the glovebox
 2. Remove the trim panel from the vehicle.

KIA Genuine Accessories



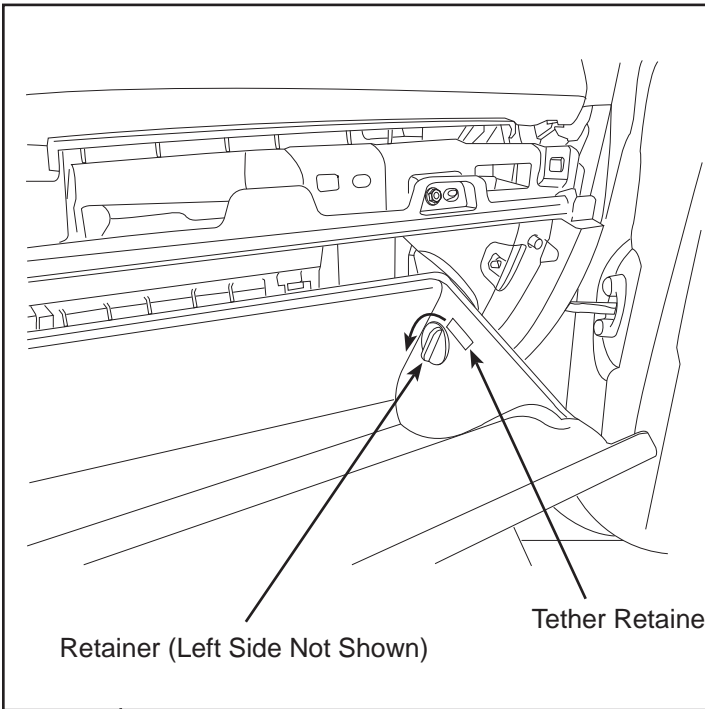
 Trim Tool **11**

**N
O
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E** 1. Remove the passenger side dash end cap panel by prying outward to disengage the four (4) pressure clips.



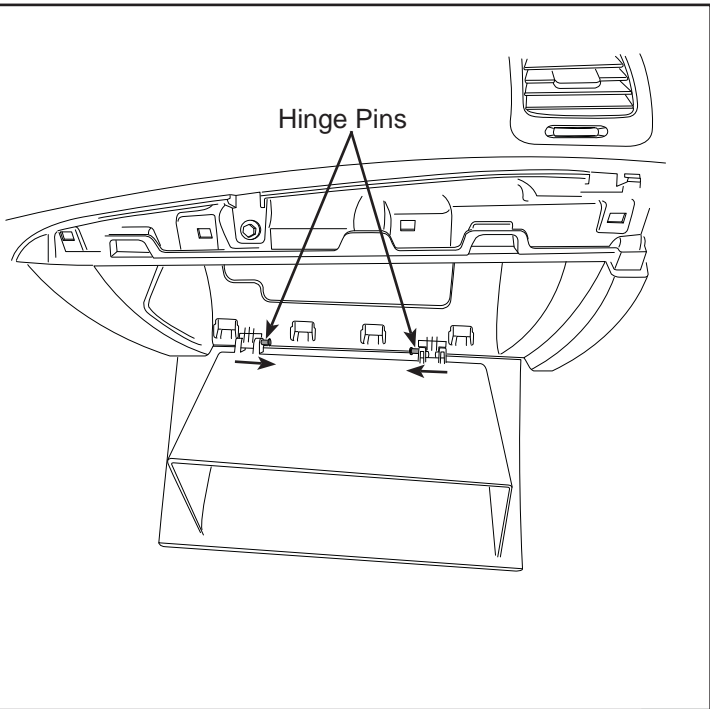
 #2 Phillips Screwdriver and Trim Tool **12**

**N
O
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E** 1. Remove the upper glovebox trim panel by removing the one (1) phillips screw and prying outward to disengage the four (4) pressure clips.



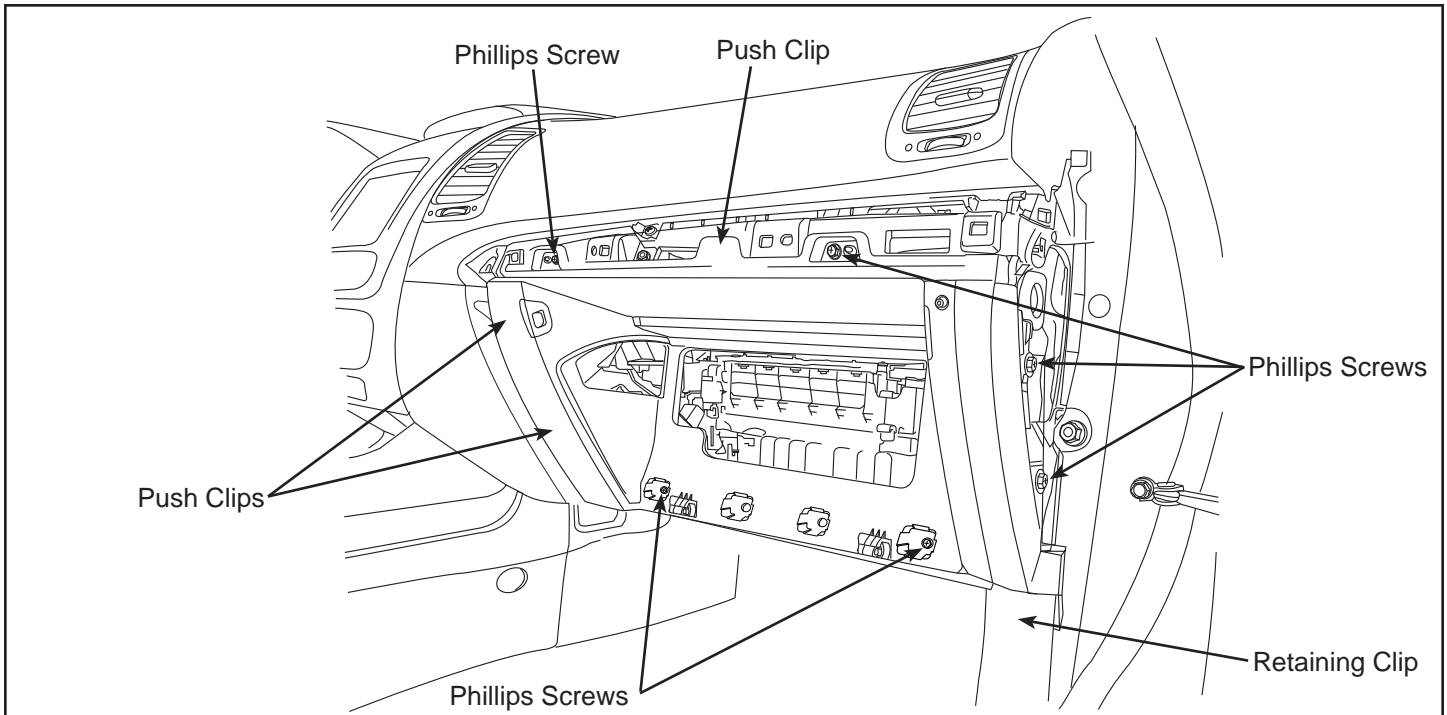
 Pliers **13**

**N
O
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E** 1. Disconnect the glovebox door tether retainer by pulling the rectangular tab toward the inside of the glove box and inserting it through the opening.
2. Remove the two (2) round retainers from inside the glovebox door by rotating counter-clockwise.
3. Tip the glovebox door down and remove the two (2) hinge pins using pliers, if needed. Remove the glovebox from the vehicle.



**N
O
T
E** 1. Disconnect the glovebox door tether retainer by pulling the rectangular tab toward the inside of the glove box and inserting it through the opening.
2. Remove the two (2) round retainers from inside the glovebox door by rotating counter-clockwise.
3. Tip the glovebox door down and remove the two (2) hinge pins using pliers, if needed. Remove the glovebox from the vehicle.

KIA Genuine Accessories

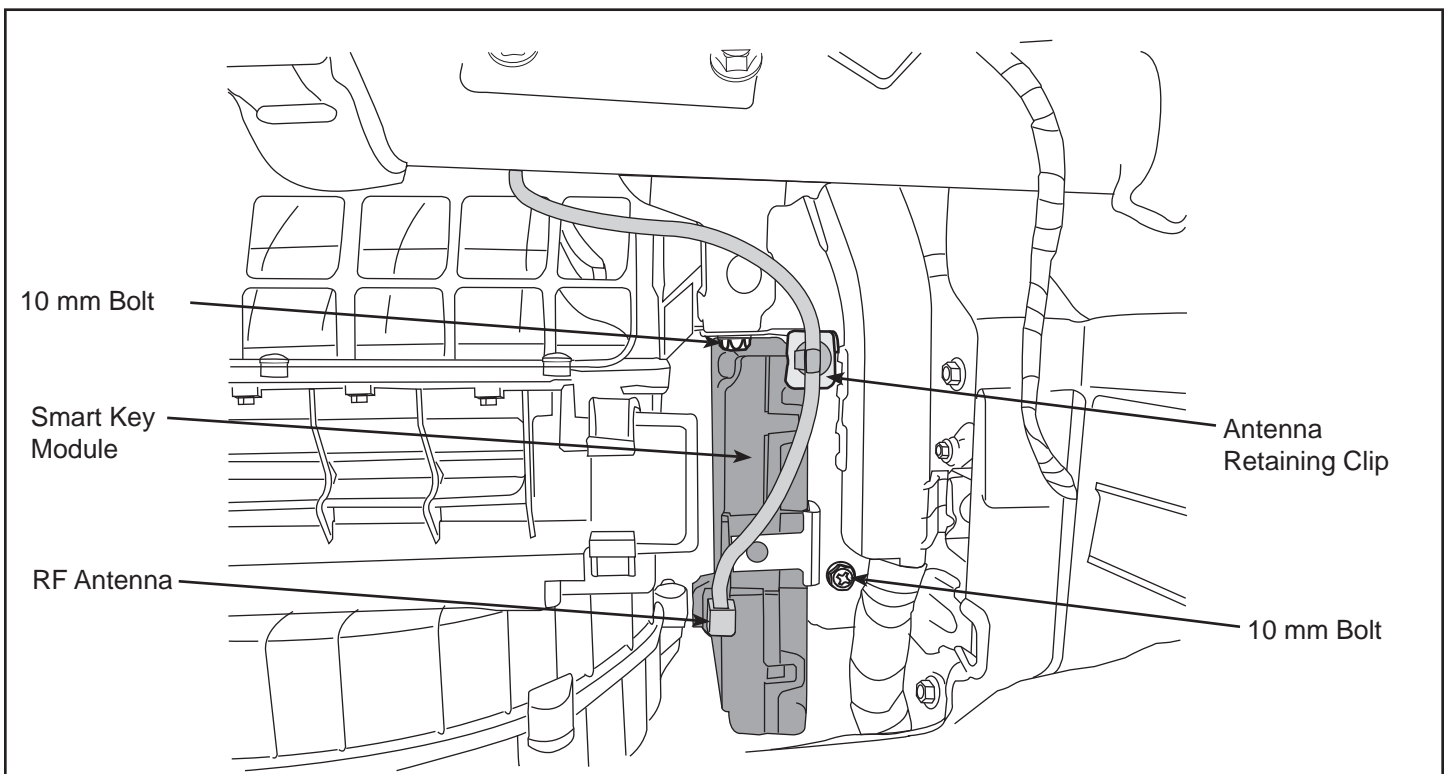


#2 Phillips Screwdriver and Trim Tool

14

**N
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1. Remove the six (6) phillips screws securing the inner-glovebox finish panel.
2. Disengage the three (3) push clips and one (1) retaining clip from the passenger side kick panel to remove the inner-glovebox finish panel from the vehicle.

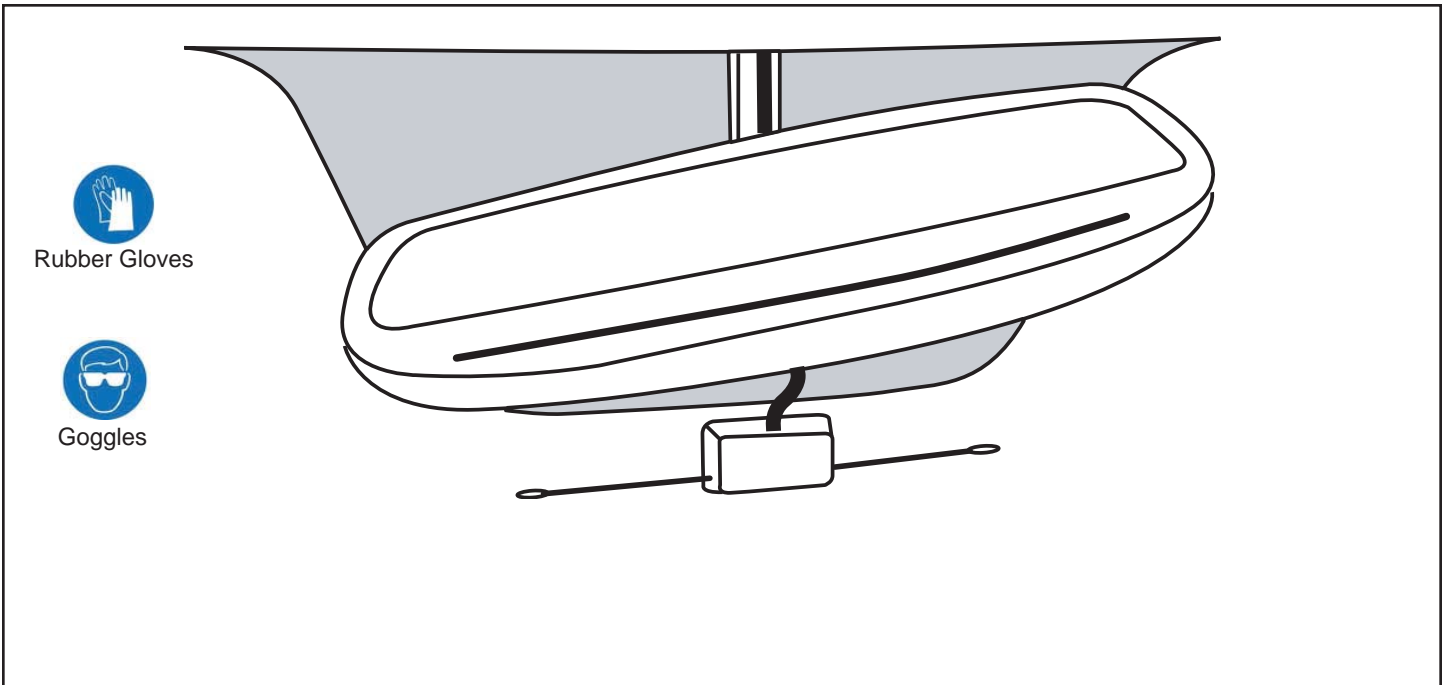


Ratchet, Extension, 10 mm Socket, Trim Tool and Pliers

15

**N
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1. Locate the Smart Key Module on the right side of the glove box opening, as shown above.
2. Disengage the antenna retaining clip and disconnect the RF antenna from the Smart Key Module using pliers and trim tool, if necessary.
3. Remove the two (2) 10 mm bolts securing the Smart Key Module to the dash assembly.
4. Rotate the Smart Key Module down toward the vehicle dash wall to access the electrical connectors.

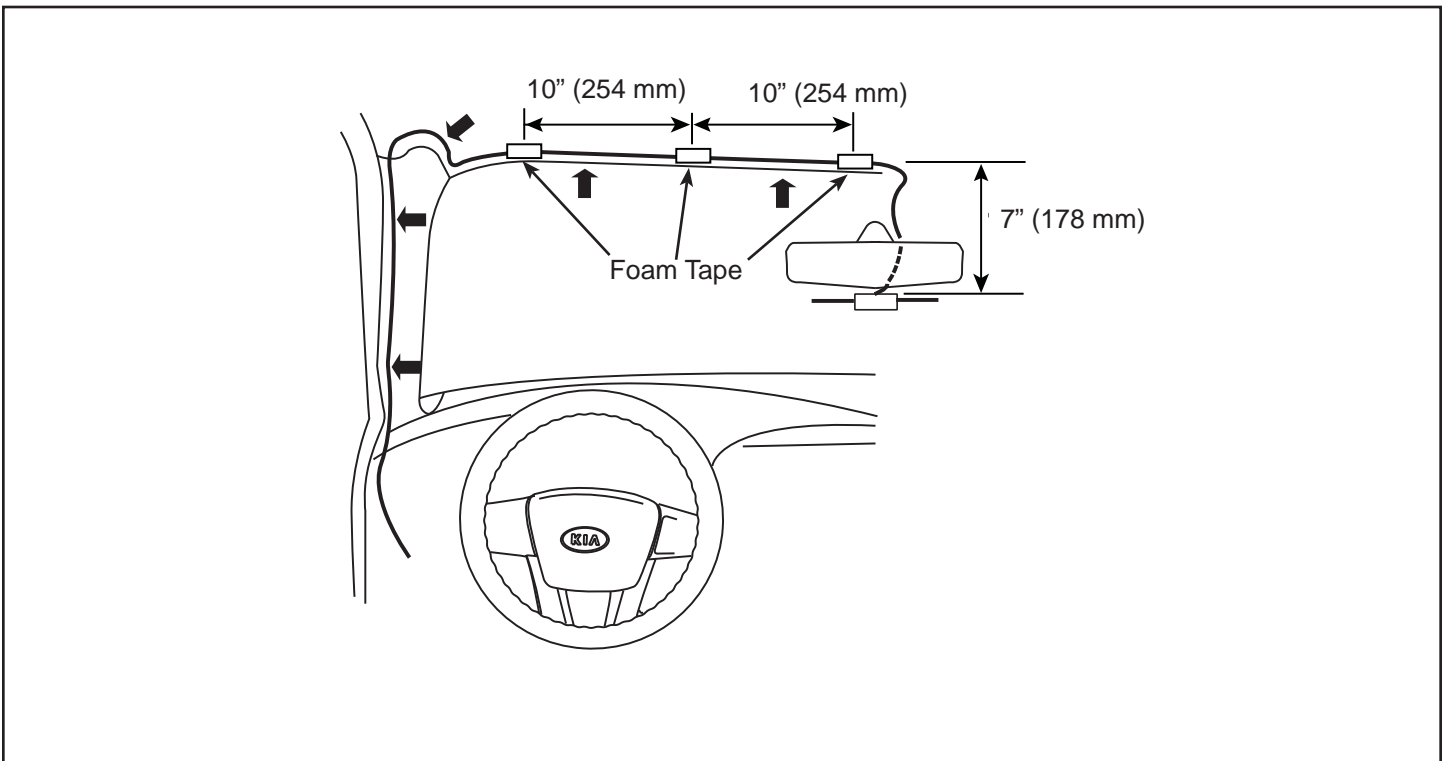


Alcohol Cleaner, Clean Cloth and Tape Measure

16

**N
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1. Clean the area of the windshield where the antenna will be mounted with an alcohol cleaner and clean cloth. Ensure the glass surface is completely dry.
2. Remove protective backing and mount the dipole antenna to the windshield approximately 0.25" (7 mm) below the mirrors lowest attachment point and/or any windshield electronic gridwork. Press firmly to ensure a good glass to adhesive bond.



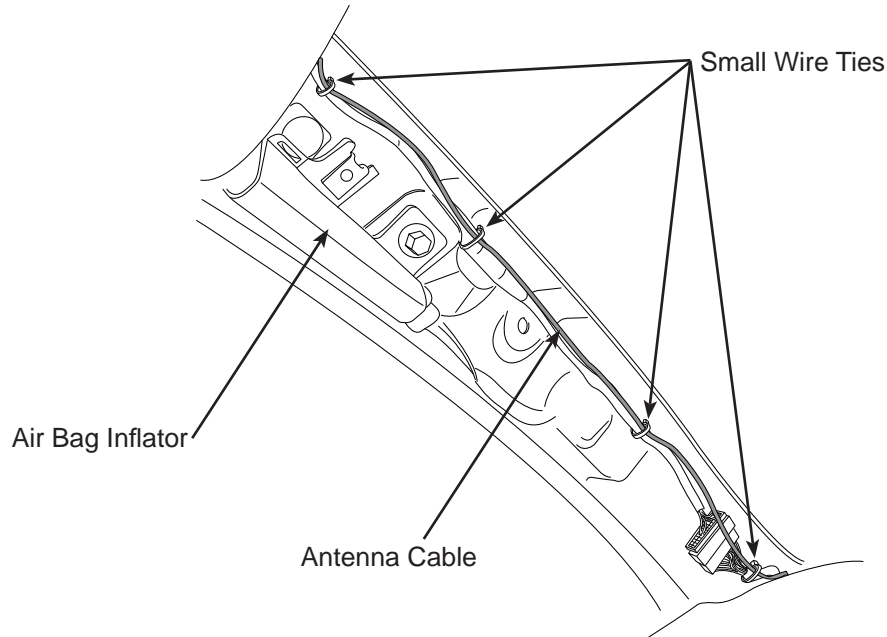
Trim Tool and Tape Measure

17

**N
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1. Wrap the antenna cable with three (3) pieces of small foam tape, at the distances shown above, to ensure that the antenna cable will stay in place after routing.
2. Route the antenna cable vertically on the right hand side of the mirror mount up to the headliner. Tuck the cable behind the headliner and down the "A" pillar, as shown above.

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 Wire Cutters

18

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E**
1. Use four (4) small wire ties to secure the antenna cable to the factory harness located within the "A" pillar, as shown above. Trim off excess wire ties.



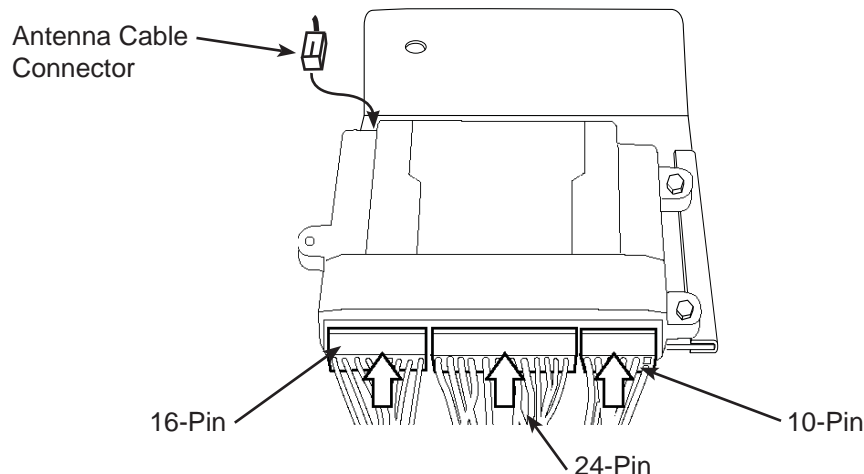
WARNING! Air Bag system interference hazard. **DO NOT** wrap antenna cable around or secure antenna cable to any Air Bag components. Damage to the vehicle's Air Bag system may occur which could result in serious physical injury.



CAUTION! Ensure the antenna cable is routed away from the Air Bag Inflator.



CAUTION! If the vehicle is equipped with a sunroof, be careful not to place the wire ties around the drain tube or the sunroof may not drain properly.



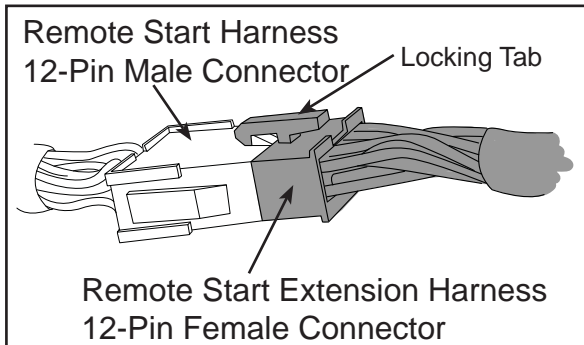
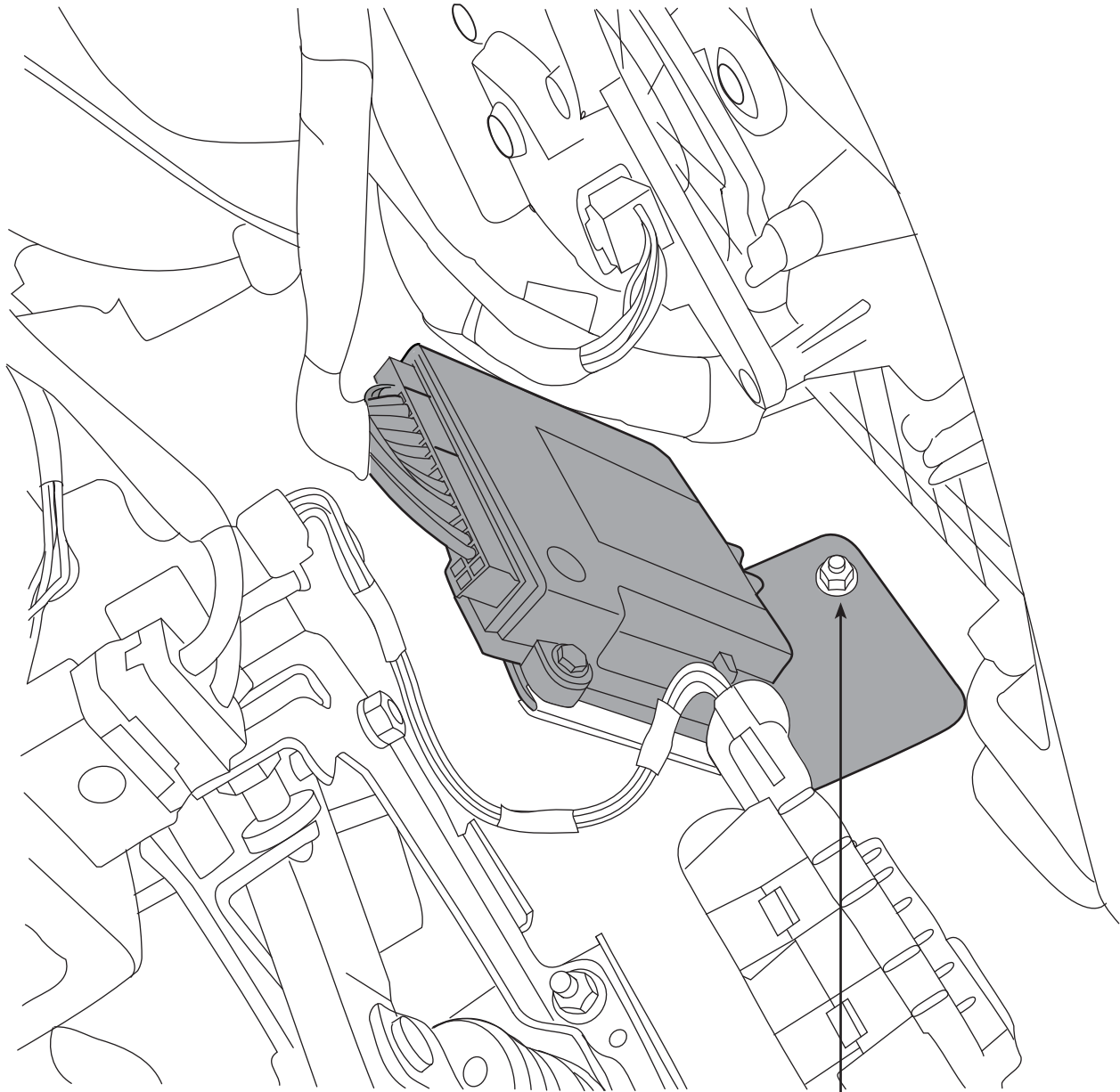


19

- N
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E**
1. Remove the two (2) transmitters and attach individually to each factory key.
 2. Route the antenna cable past the left side of the dashboard and over to the dash wall area.
 3. Plug the remote start harness 16-pin connector, 24-pin connector, 10-pin connector and the 2-pin antenna cable connector into the remote start control module before mounting.
 4. Ensure all connectors are properly locked into position.



CAUTION! Be careful not to bend/damage any of the terminals inside the remote start module.

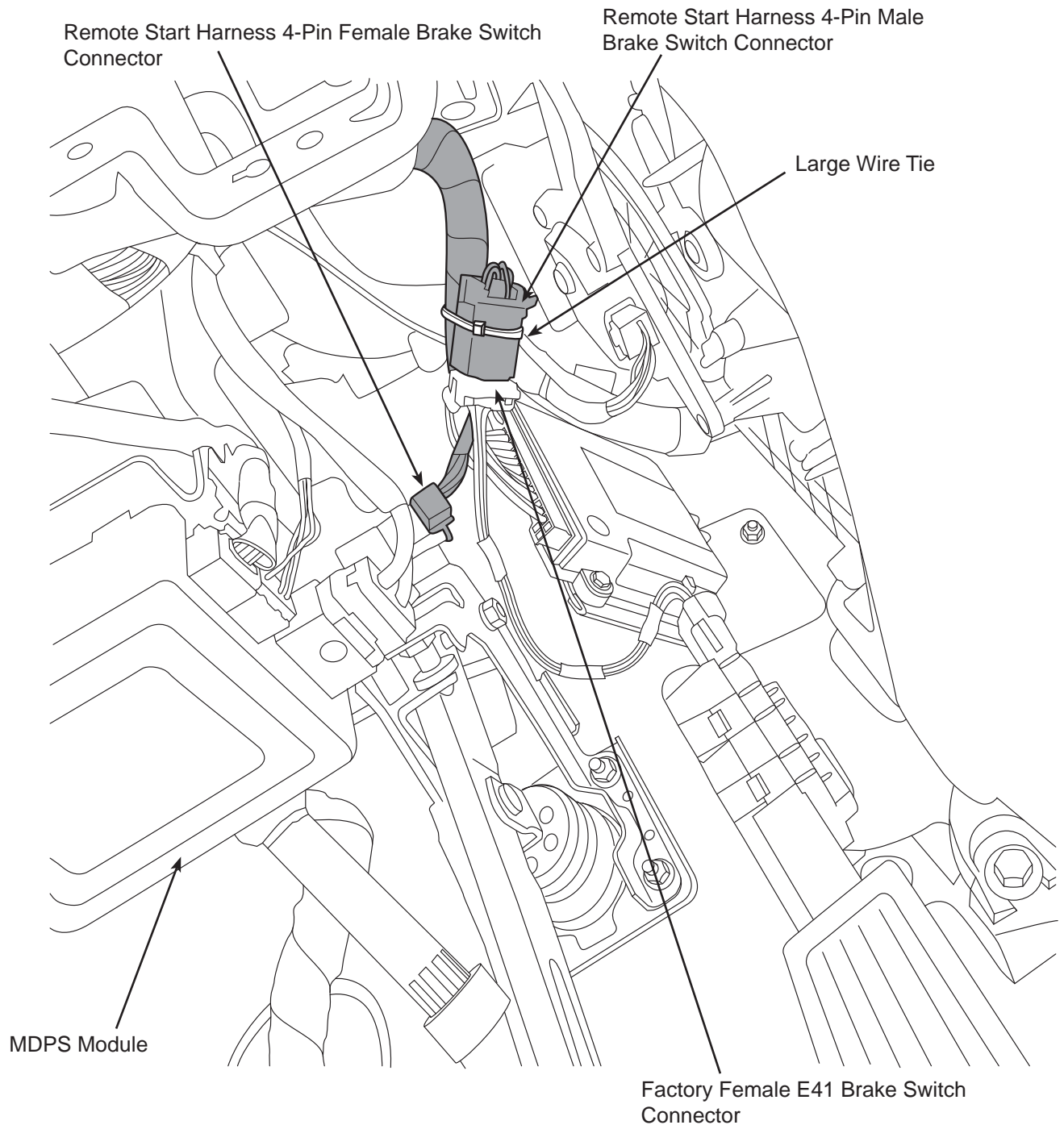


M6 Nut
Torque to 14 Nm (1.4 Kgf.m, 10 lb-ft)

 Ratchet, Extension, 10 mm Socket and Torque Wrench

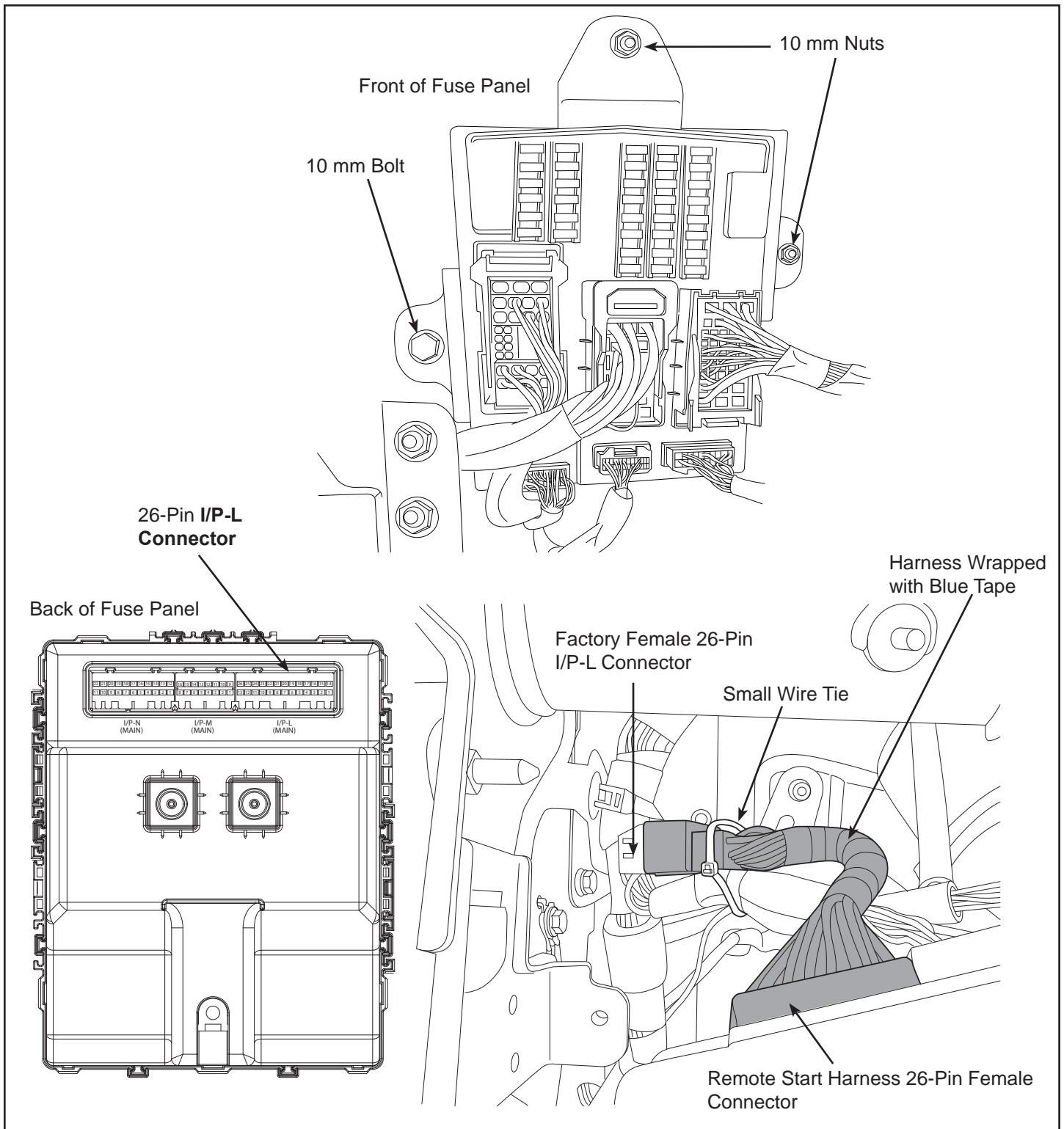
20


- N
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1. Secure the remote start control module to the factory stud, located on the vehicle dash wall, above the accelerator pedal assembly with one (1) supplied M6 nut, as shown above.
 2. Torque the M6 nut to 14 Nm (1.4 Kgf.m, 10 lb-ft).
 3. Disconnect the remote start harness 12-pin junction connectors by pressing on the locking tab. Remove the remote start extension harness with the 12-pin female connector and set aside until Step 28.
 4. Route the remote start harness along the factory harness to the fuse panel.



 Wire Cutters

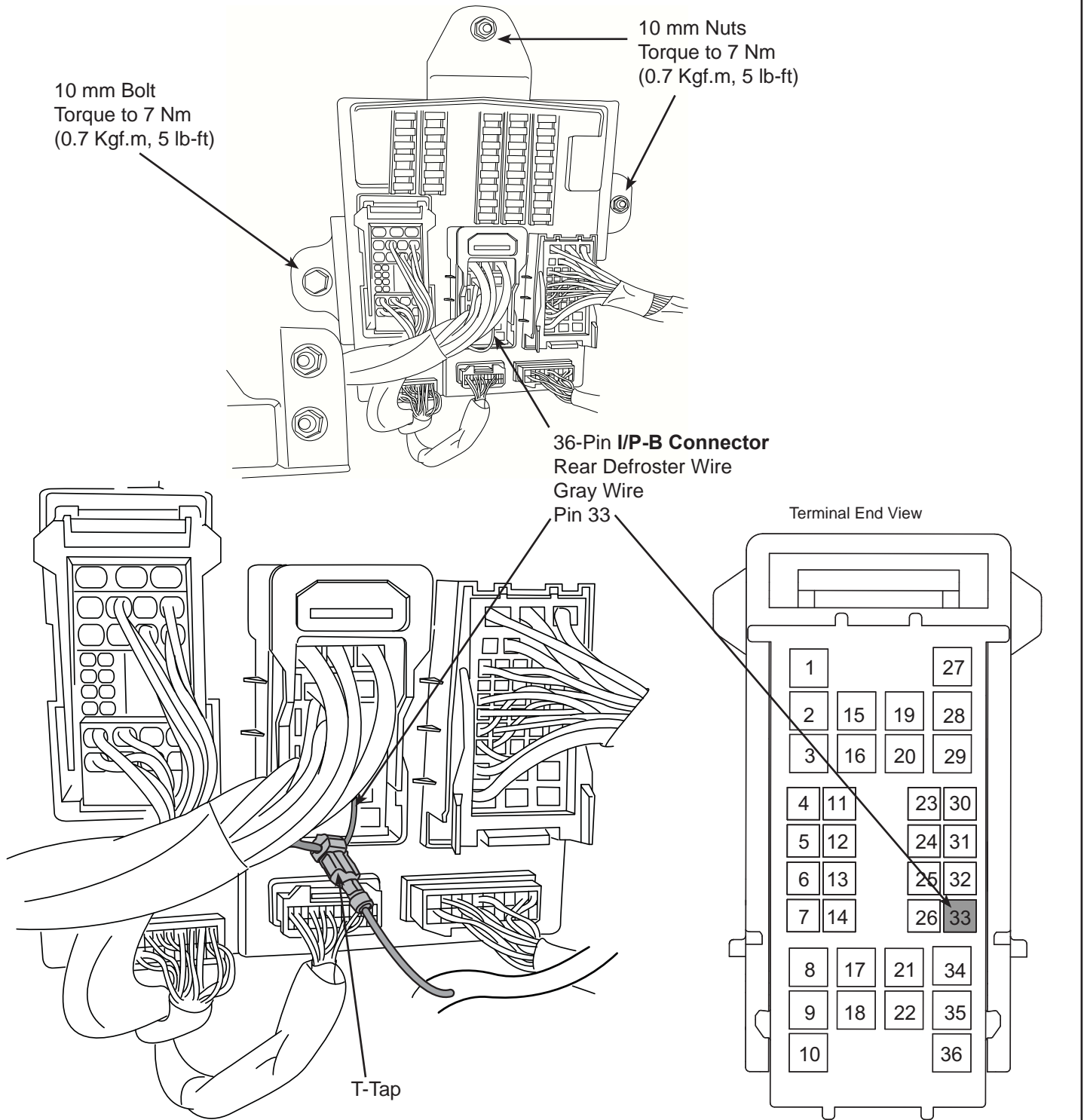
- N
O
T
E**
1. Route the remote start harness 4-pin male and female brake switch connectors to the brake switch at the top of the brake pedal, as shown above.
 2. Disconnect the factory female 4-pin E41 connector and plug in the corresponding remote start harness connectors. Ensure both connectors are locked in place.
 3. Secure the factory female 4-pin E41 connector and the remote start harness male connector to the remote start harness with one (1) large wire tie, as shown above. Trim off excess wire tie.



 Ratchet, Extension, 10 mm Socket and Wire Cutters

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E**
1. Route the 26-pin male and female remote start harness connectors (**Wrapped with BLUE tape**) along the right side of the fuse panel.
 2. Remove the two (2) 10 mm nuts and one (1) 10 mm bolt securing the fuse panel, as shown above.
 3. Tilt the fuse panel forward and route the 26-pin male and female remote start harness connectors (**Wrapped with BLUE tape**) to the back of the fuse panel.
 4. Locate the 26-pin **I/P-L connector** on the back of the fuse panel. Disconnect the factory female 26-pin I/P-L connector and plug in the corresponding remote start harness connectors. Ensure both connectors are locked in place.
 5. Secure the factory female 26-pin I/P-L connector and the remote start harness male connector to the factory harness with one (1) small wire tie, as shown above. Trim off excess wire tie.

***Unplug connector, if necessary, to identify proper pin location and to make T-Tap connection.**



Ratchet, Extension, 10 mm Socket, Torque Wrench and Pliers

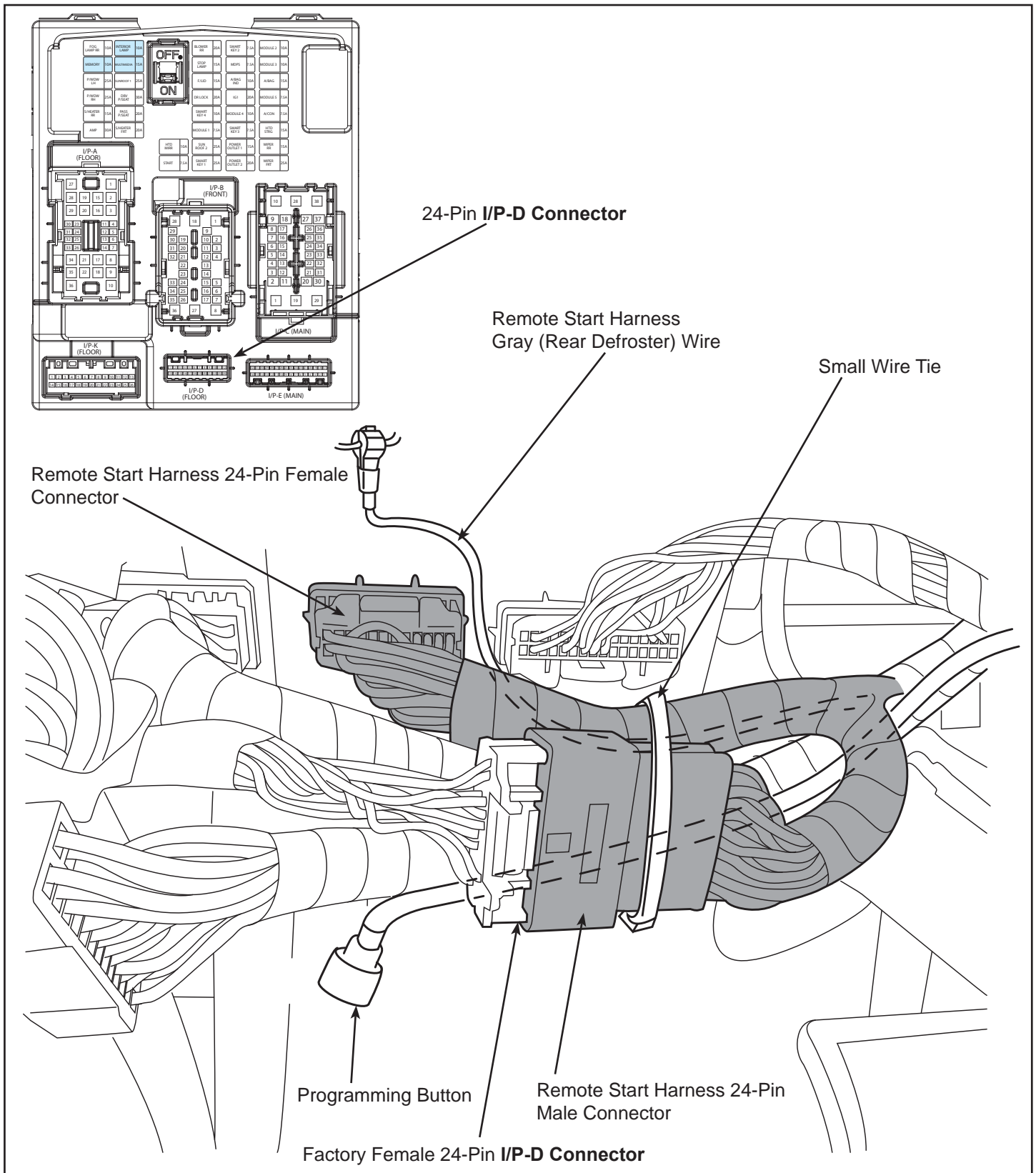
23

N *Refer to Page 3 for T-Tap Installation Procedure.

- O**
1. Reinstall the fuse panel with the two (2) 10 mm nuts and one (1) 10 mm bolt, as shown above. Torque 10 mm nuts and 10 mm bolt to 7 Nm (0.7Kgf.m, 5 lb-ft).
 2. Locate the Gray wire in **pin #33** of the 36-pin I/P-B female connector.
 3. Using pliers, crimp one (1) T-Tap on the Gray wire located in **pin #33** of the 36-pin I/P-B female connector.
 4. Connect the Gray (Rear Defroster Output) wire from the remote start harness to the Gray wire (Pin #33 of the 36-Pin I/P-B connector) by engaging the T-Tap. Ensure spade terminal is properly centered in the T-Tap.
- E**



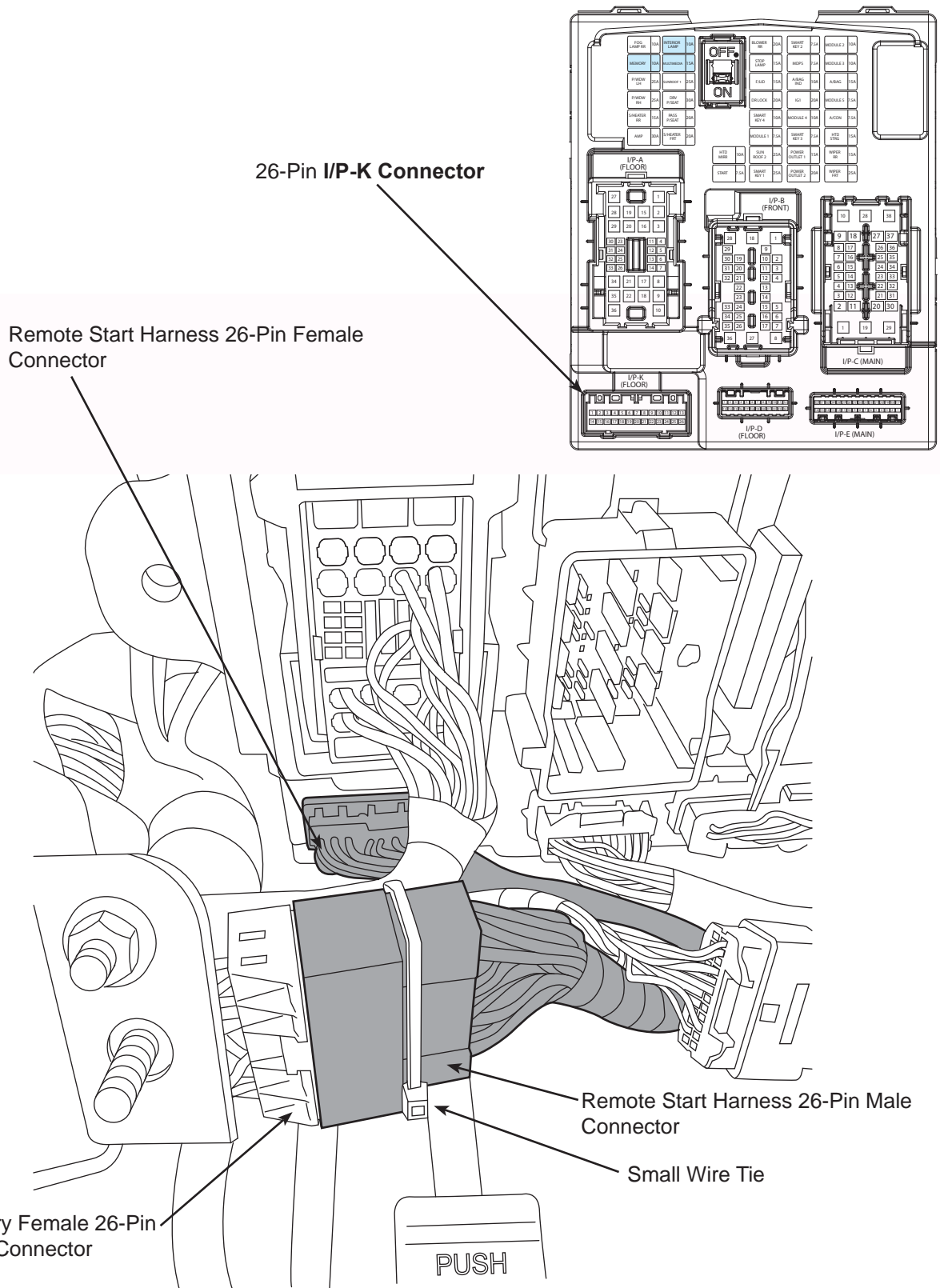
CAUTION! Ensure the correct pin location is identified. There may be several wires of the same/similar color.



Wire Cutters

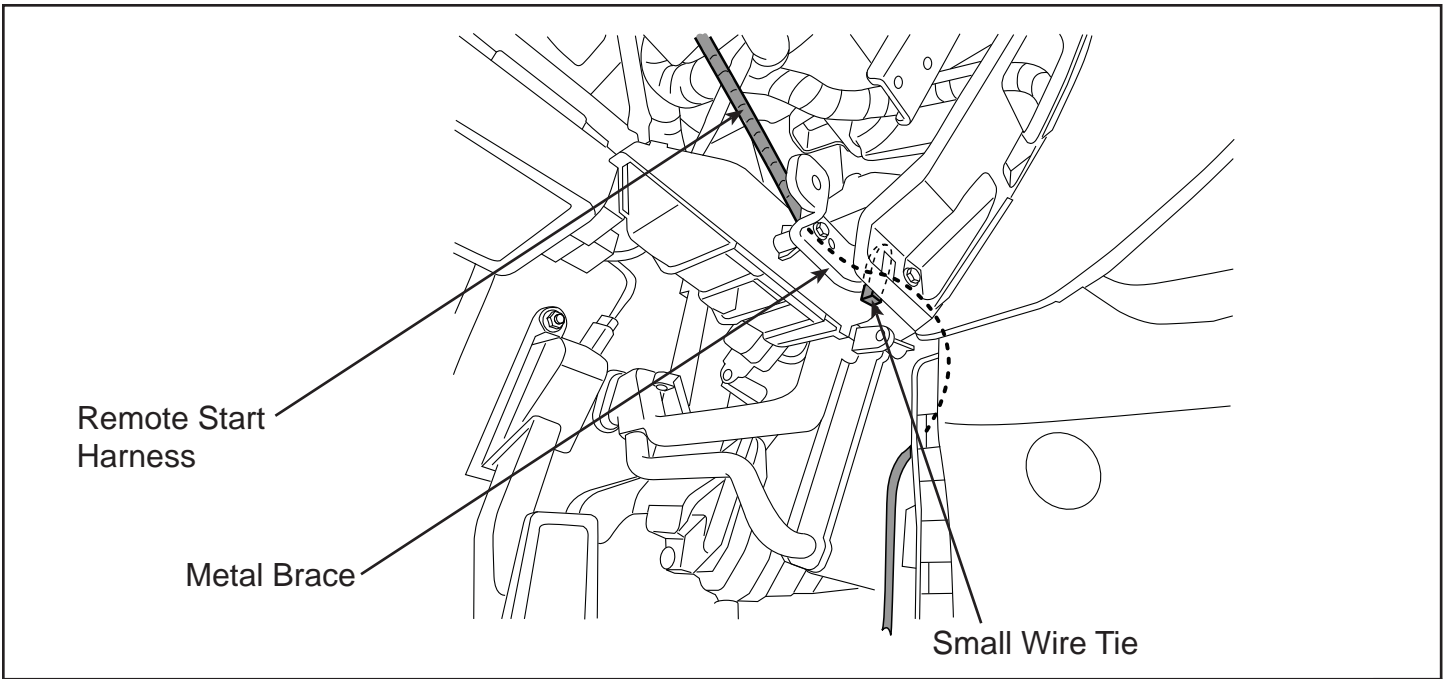
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1. Route the 24-pin male and female remote start harness connectors along the front of the fuse panel to the 24-pin I/P-D connector.
2. Disconnect the factory female 24-pin I/P-D connector and plug in the corresponding remote start harness connectors, as shown above. Ensure both connectors are locked in place.
3. Secure the factory female 24-pin I/P-D connector, remote start harness male connector, Gray (Rear Defroster) wire and the programming button to the factory harness with one (1) small wire tie, as shown above. Trim off excess wire tie.



 Wire Cutters

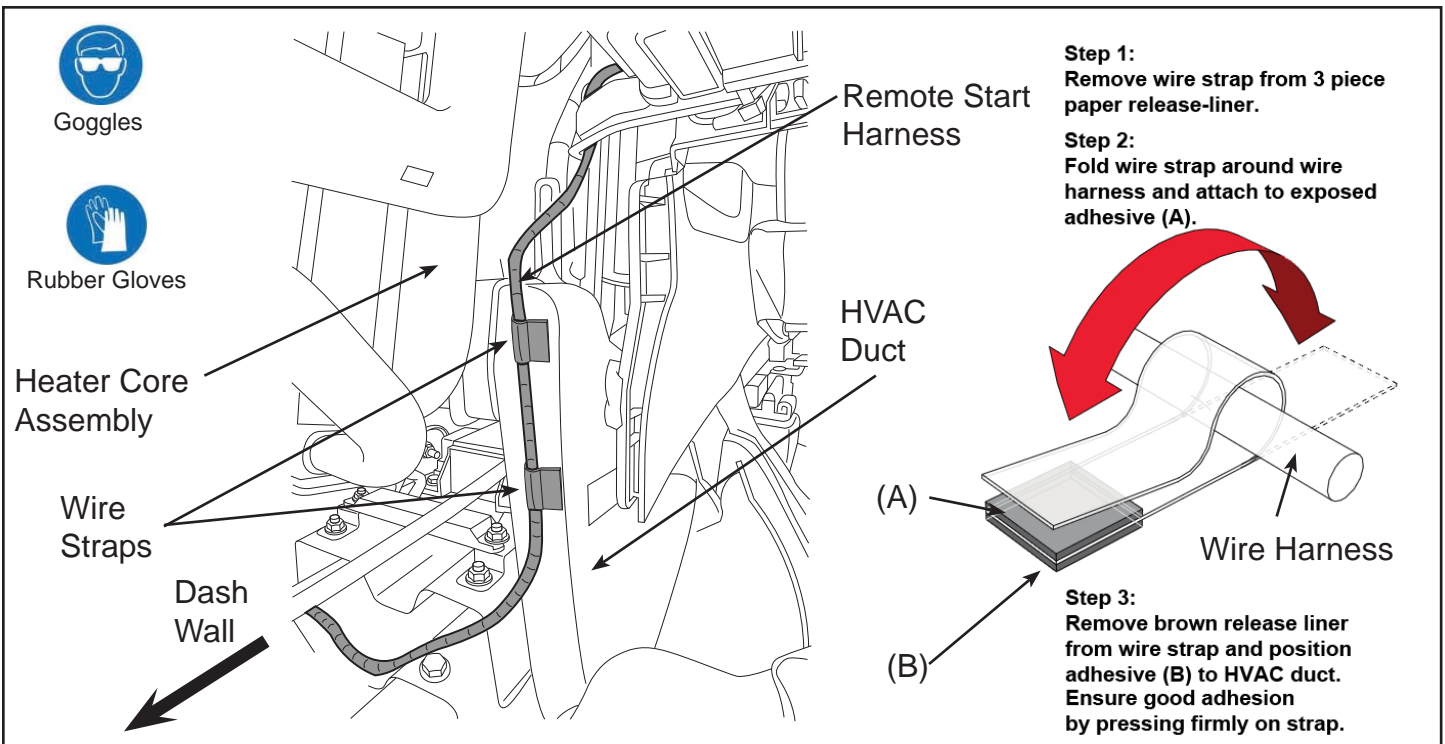
- N
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E**
1. Route the 26-pin male and female remote start harness connectors (**Wrapped with BLACK tape**) along the front of the fuse panel to the 26-pin I/P-K connector.
 2. Disconnect the factory female 26-pin **I/P-K connector** and plug in the corresponding remote start harness connectors. Ensure both connectors are locked in place.
 3. Secure the factory female 26-pin I/P-K connector and the remote start harness male connector to the factory harness with one (1) small wire tie, as shown above. Trim off excess wire tie.



Wire Cutters

26

- NOTE**
1. Route the 12-pin male remote start harness connector under the steering column to the center console area.
 2. Continue to route the 12-pin male remote start harness connector behind the metal dash brace down through the metal bracket to the HVAC duct.
 3. Secure the remote start harness to the metal dash brace (hidden from view) located near the driver's lower HVAC duct with one (1) small wire tie, as shown above. Trim off excess wire tie.

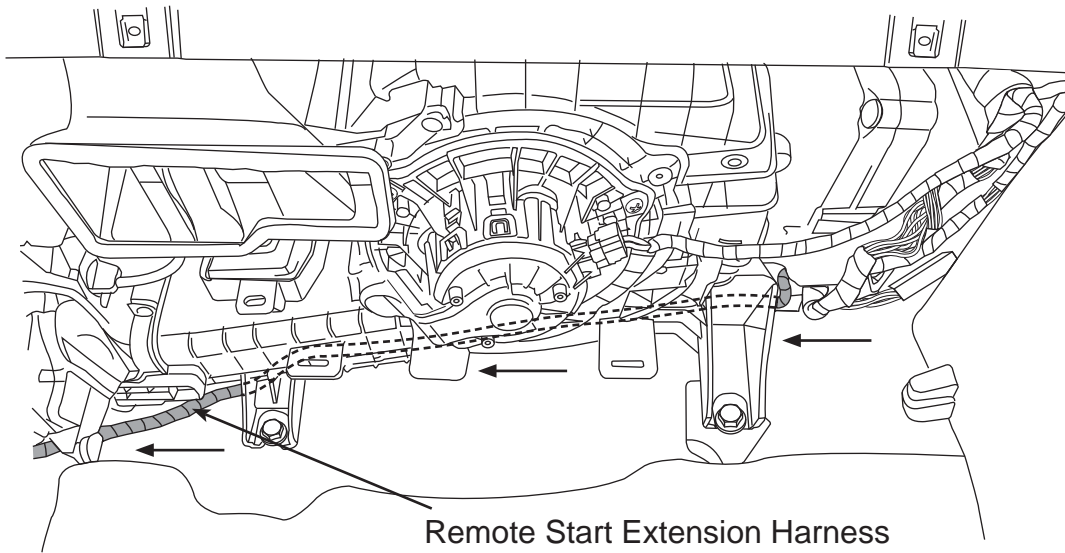


Alcohol Cleaner and Clean Cloth

27

- NOTE**
1. Clean the area of the HVAC duct where the wire straps will be adhered with an alcohol cleaner and clean cloth. Ensure the HVAC duct is completely dry.
 2. Attach two (2) wire straps to the remote start harness using the procedure shown above.
 3. Secure the remote start harness to the driver's side HVAC duct, as shown above.

CAUTION! Ensure wire straps are not secured to the Heater Core Assembly.

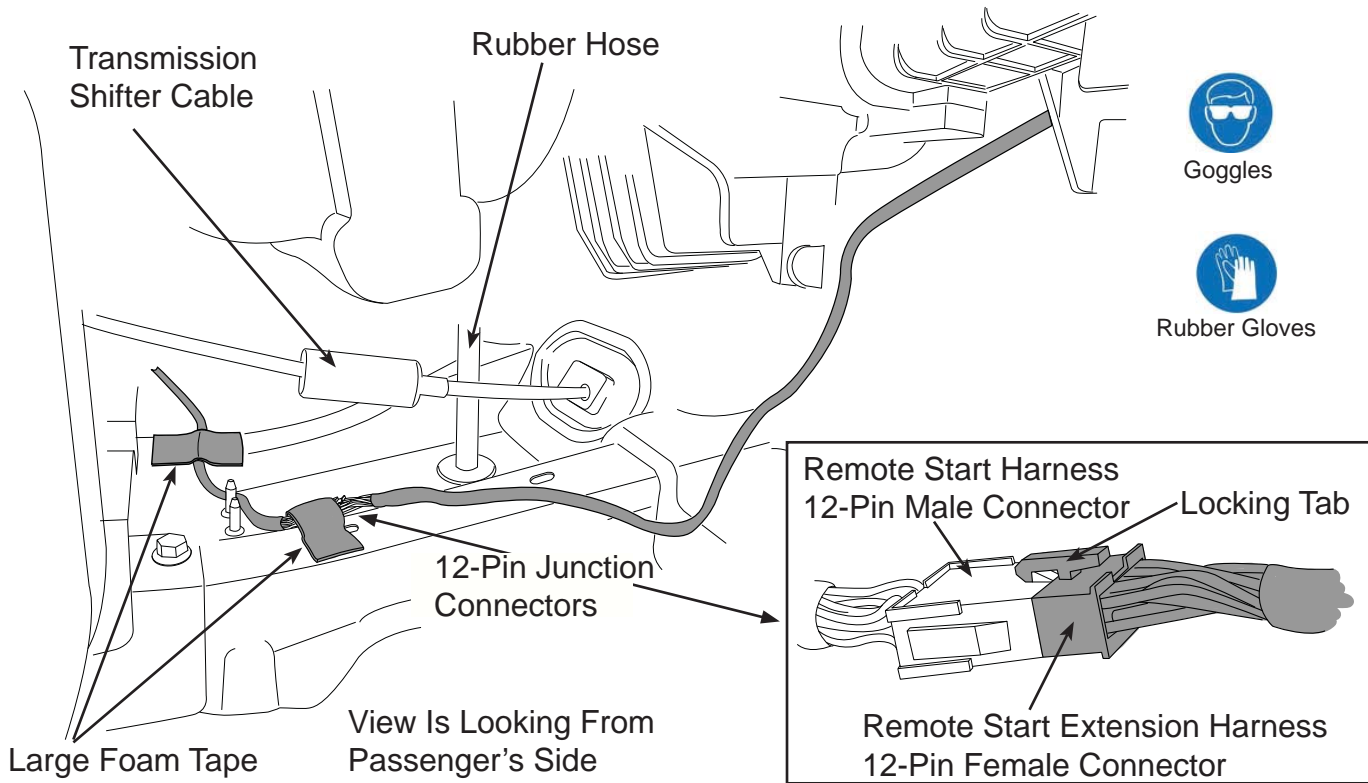


Remote Start Extension Harness



28

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1. Starting from the passenger side kick panel area, route the 12-pin female remote start extension harness (disconnected in Step 20) between the HVAC blower motor assembly and dash wall, over to the center console area, as shown above.
 2. Ensure the remote start extension harness is tucked up behind the HVAC blower motor.



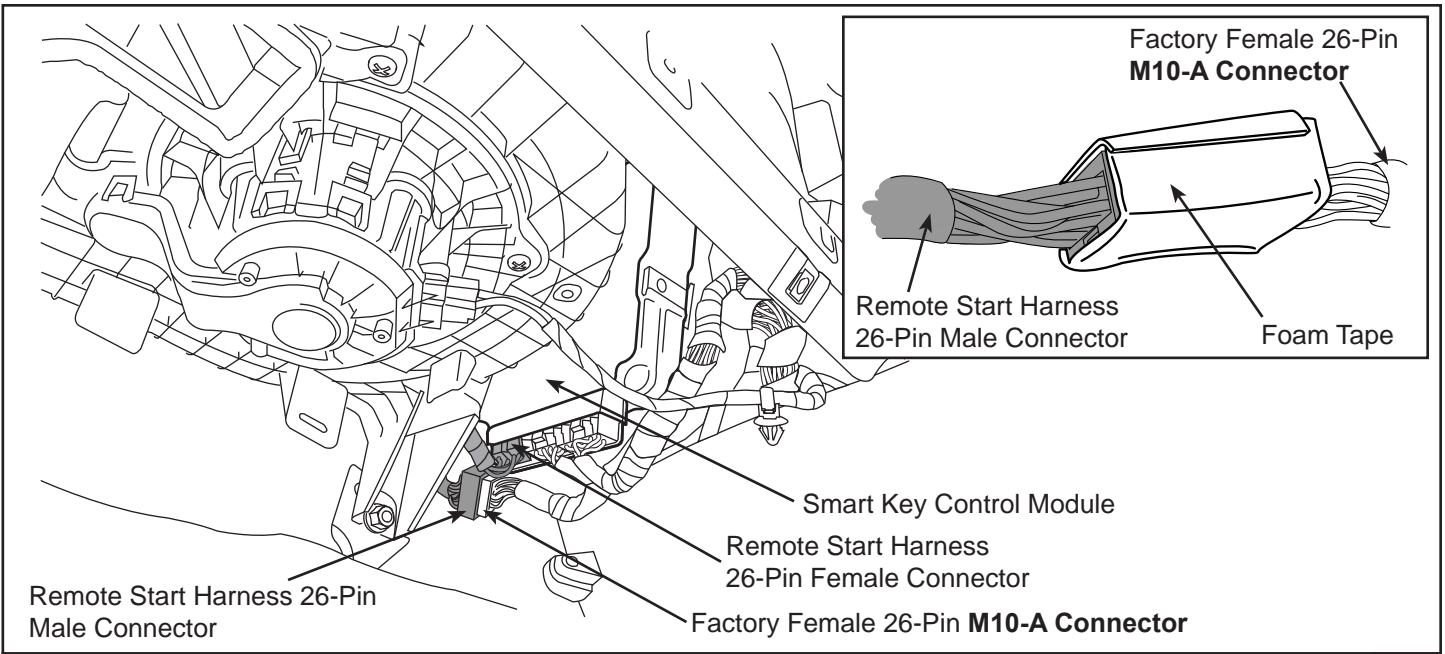
Alcohol Cleaner and Clean Cloth

29

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1. Route the remote start harness behind the center console toward the passenger's foot well area.
 2. Connect the 12-pin male remote start harness junction connector to the 12-pin female remote start extension harness connector. Ensure both connectors are locked together.
 3. Clean the area of the vehicle body structure where the foam pads will be adhered with an alcohol cleaner and clean cloth. Ensure the vehicle body structure is completely dry.
 4. Secure the remote start harness to the vehicle body structure with two (2) pieces of large foam tape, as shown above.



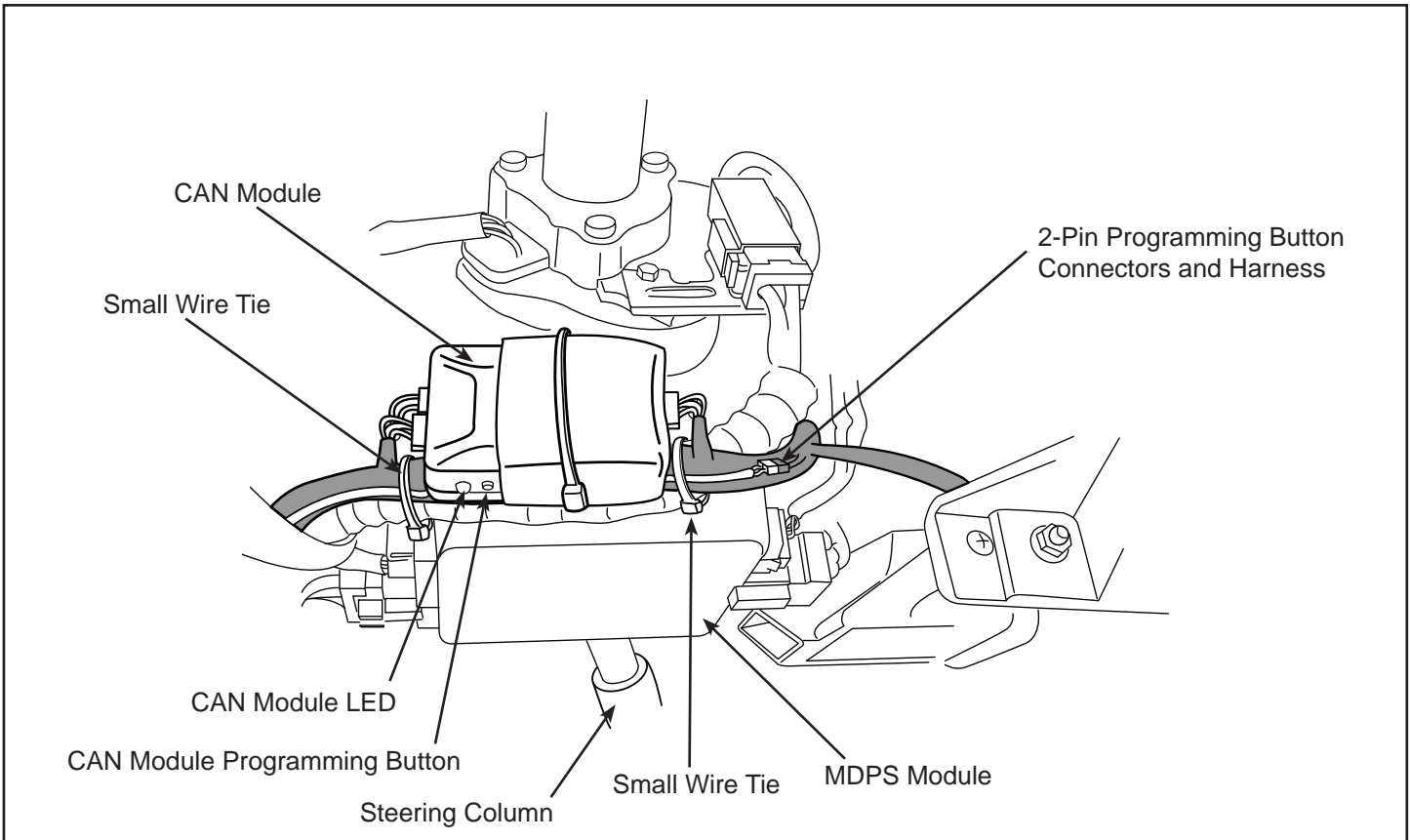
CAUTION! Do not route the remote start harness against the rubber hose or the transmission shifter cable.



30

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1. Locate the 26-pin **M10-A connector** at the Smart Key Control Module. Disconnect the factory female 26-pin M10-A connector and plug in the corresponding remote start harness connectors (**Wrapped with GREEN tape**).
2. Wrap the factory female 26-pin M10-A connector and the remote start harness male connector with one (1) piece of large foam tape, as shown above. Ensure both connectors are locked in place.



Wire Cutters

31

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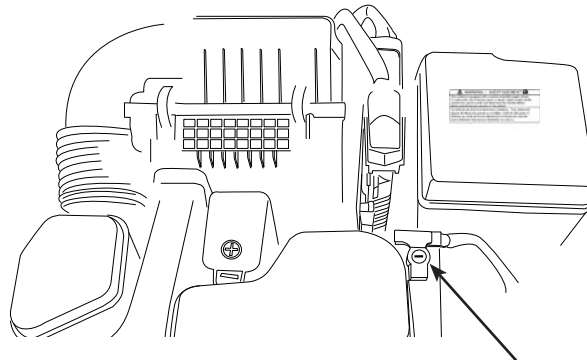
1. Secure the programming button harness and the remote start harness with two (2) small wire ties to the factory harness, as shown above. Trim off excess wire ties.



Goggles



Rubber
Gloves



Negative
Battery Cable



Ratchet and 10 mm Socket

32

- N
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1. Verify all connections are secure as per the installation instructions.
 2. Reconnect the negative battery cable.
 3. Start the vehicle and verify that no air bag or engine codes have been triggered. Any fault codes should be addressed before proceeding to the next step.
 4. Turn off the vehicle.










WARNING! Shock Hazard. Do not touch vehicle's negative battery terminal to vehicle's positive battery terminal. Serious physical injury or vehicle damage may occur.





KIA Genuine Accessories Function Check

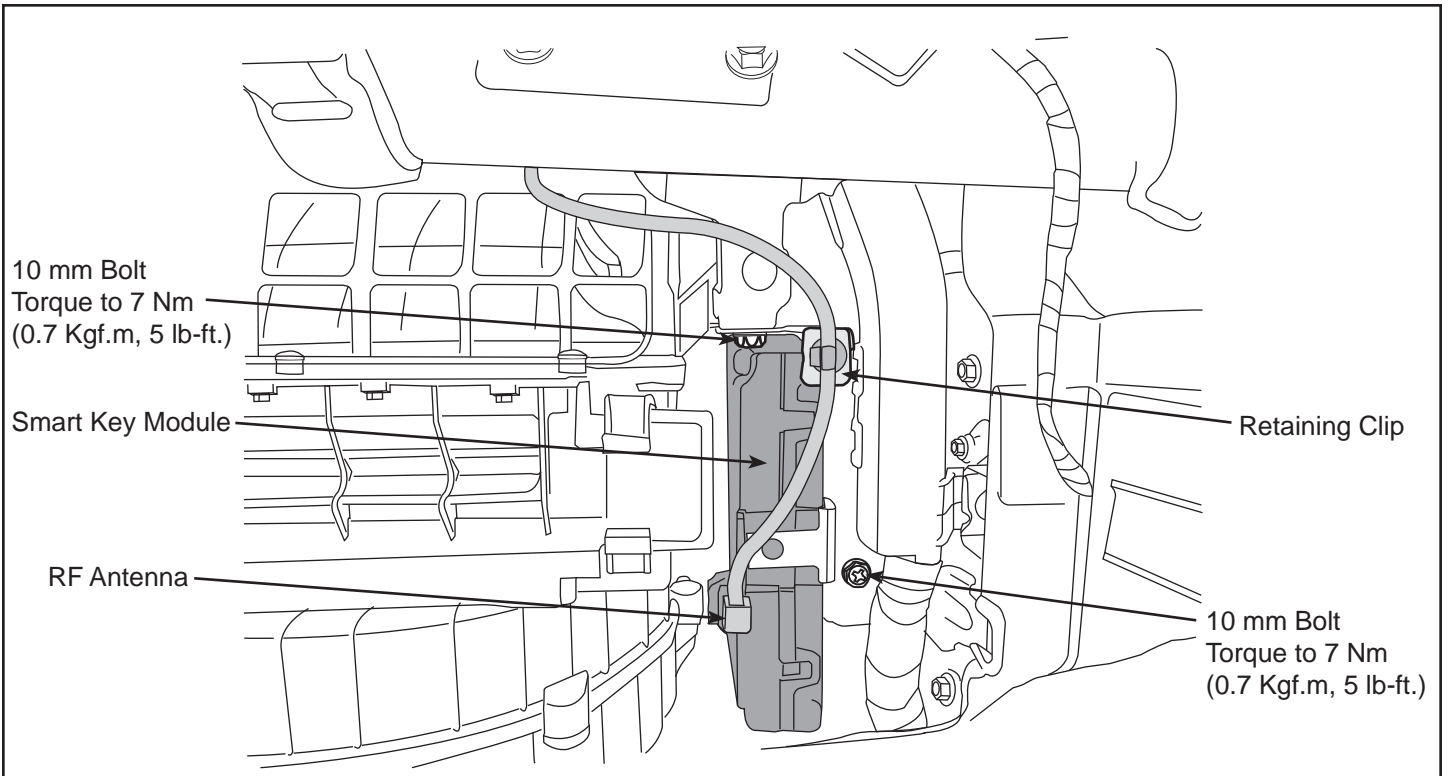
**Ensure the transportation fuse is properly installed before performing the Function Check.
If the transmitters fail to operate, refer to Page 32 (Transmitter Programming and Battery Test Procedure).**

Ensure the parking brake is set and one (1) factory Smart Key transmitter and one (1) remote start transmitter are in hand before performing the Function Check.

Items To Be Checked	Results Of The Check
 <p><u>Remote Engine Start</u> - Make sure the engine hood, all doors and tailgate are closed. Activate the remote start by pressing the start button two (2) times within three (3) seconds.</p> <p>NOTE: Ensure the factory Smart Key transmitter is <u>inside</u> the vehicle with the driver's window open.</p>	<p>The doors will lock, the parking lights will flash and the horn will beep one (1) time, then the vehicle will crank and start. Once started, the parking lights will turn on and stay on signifying the engine is running.</p>
 <p><u>Rear Defroster</u> - Press the remote start button on the transmitter one (1) time while the vehicle is running.</p>	<p>The parking lights will flash one (1) time. Locate the rear defroster switch and verify that the indicator portion of the switch is illuminated.</p>
 <p><u>Door Unlock/Interior Lamp</u> - Press the unlock button on the factory Smart Key transmitter or press the button on the driver's outside door handle one (1) time.</p> <p><u>Door Lock</u> - Press the lock button on the factory Smart Key transmitter one (1) time.</p> <p><u>Door Unlock</u> - Press the unlock button on the factory Smart Key transmitter or press the button on the driver's outside door handle two (2) times within three (3) seconds.</p> <p>NOTE: Smart Key transmitter must be in range to lock/unlock the doors.</p>	<p>The hazard lights will flash two (2) times to indicate that the vehicle is disarmed, unlock the driver's door only and turn on the interior lamp for up to thirty (30) seconds.</p> <p>NOTE: Interior lamp switch must be set to the door position to illuminate.</p> <p>The hazard lights will flash one (1) time to indicate that the vehicle is locked.</p> <p>The hazard lights will flash two (2) times to indicate that the vehicle is disarmed and unlock all doors.</p>
 <p><u>Hood Safety Switch</u> - Open the driver's door and pull the hood release lever to release the hood.</p>	<p>The engine/remote start will turn off immediately.</p> <p>The hood should not have to be lifted to activate the hood safety switch.</p>
 <p><u>Tailgate Safety Switch</u> - Close the engine hood and all doors. Activate the remote start by pressing the start button two (2) times within three (3) seconds and proceed to the rear of the vehicle with a factory Smart Key transmitter.</p> <p>Open the tailgate using the tailgate release button located above the license plate area.</p>	<p>The doors will lock, the parking lights will flash and the horn will beep one (1) time, then the vehicle will crank and start. Once started, the parking lights will turn on and stay on signifying the engine is running.</p> <p>The engine/remote start will turn off immediately.</p>
 <p><u>Car Find Feature</u> - Close the tailgate and press the red find/panic button on the remote start transmitter. Repeat this process two (2) times.</p>	<p>The parking lights will flash and the horn will beep five (5) times. Subsequent presses within five (5) seconds of the first press will beep the horn slightly louder.</p>
 <p><u>Panic Feature</u> - Press and hold the red find/panic button on the remote start transmitter for three (3) seconds to activate. Press the red find/panic button a second time to deactivate.</p>	<p>The parking lights will flash and the horn will beep for up to thirty (30) seconds.</p>

KIA Genuine Accessories Function Check

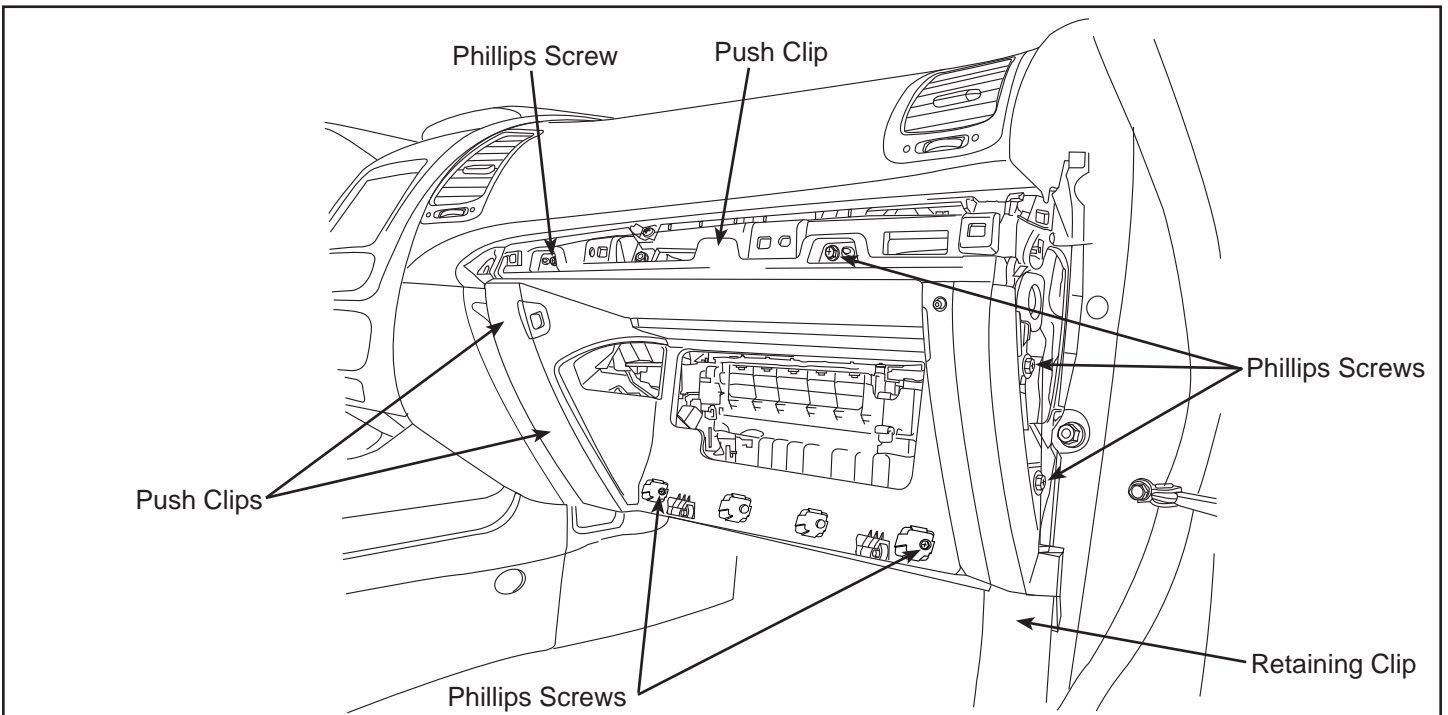
Items To Be Checked	Results Of The Check
<p> <u>Pre-start shut down (Hood)</u> - Press the unlock button on the factory Smart Key transmitter. Open the driver's door, pull the hood release lever to release the hood and close the driver's door.</p> <p>Attempt to activate the remote engine start.</p>	<p>The hazard lights will flash two (2) times to indicate that the vehicle is disarmed and unlock the driver's door only.</p> <p>The horn will beep two (2) times and the remote start will not attempt to start the vehicle since it detects the hood is open.</p>
<p> <u>Pre-start shut down (Tailgate)</u> - Close the engine hood and proceed to the rear of the vehicle with a factory Smart Key transmitter.</p> <p>Open the tailgate using the tailgate release button located above the license plate area and attempt to activate the remote engine start.</p>	<p>The horn will beep five (5) times and the remote start will not attempt to start the vehicle since it detects the tailgate is open.</p>
<p> <u>Pre-start shut down (Door)</u> - Close the tailgate and press the unlock button on the factory Smart Key transmitter.</p> <p>Open the driver's door and attempt to activate the remote engine start.</p>	<p>The hazard lights will flash two (2) times to indicate that the vehicle is disarmed and unlock the driver's door only.</p> <p>The horn will beep six (6) times and the remote start will not attempt to start the vehicle since it detects a door is open.</p>
<p> <u>Remote Engine Start / Take Over</u> - Exit the vehicle and ensure the engine hood, all doors and tailgate are closed. Activate the remote start by pressing the start button two (2) times within three (3) seconds.</p> <p>Press the unlock button on the factory Smart Key transmitter one (1) time.</p> <p>Open the driver's door and enter the vehicle with a factory Smart Key transmitter.</p> <p>Wait for the "Key Out" light to turn OFF on the instrument cluster.</p> <p>Press the brake pedal.</p> <p>Press the start button on the dashboard to turn off the engine.</p>	<p>The doors will lock, the parking lights will flash and the horn will beep one (1) time, then the vehicle will crank and start. Once started, the parking lights will turn on and stay on signifying the engine is running.</p> <p>The hazard lights will flash two (2) times to indicate that the vehicle is disarmed and unlock the driver's door only.</p> <p>The "Key Out" light on the instrument cluster will flash.</p> <p>The "Key Out" light on the instrument cluster turns OFF.</p> <p>The parking lights will turn off and the vehicle will remain running.</p> <p>The engine will turn off immediately.</p>



 Ratchet, Extension, 10 mm Socket and Torque Wrench

33

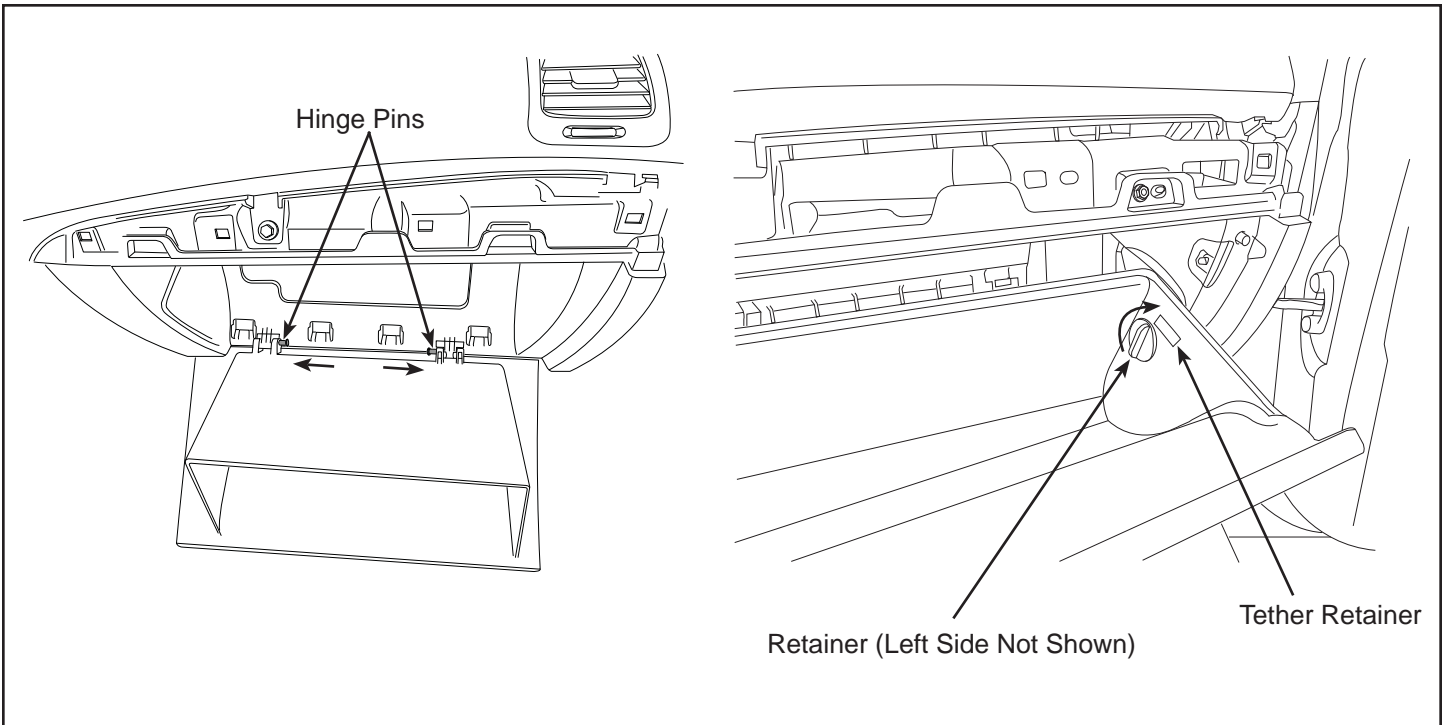
- N**
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1. Rotate the Smart Key Module back into place and secure to the dash assembly with two (2) 10 mm bolts.
 2. Torque 10 mm bolts to 7 Nm (0.7 Kgf.m, 5 lb-ft.).
 3. Connect the RF Antenna to the Smart Key Module and secure the antenna by engaging the one (1) retaining clip.



 #2 Phillips Screwdriver

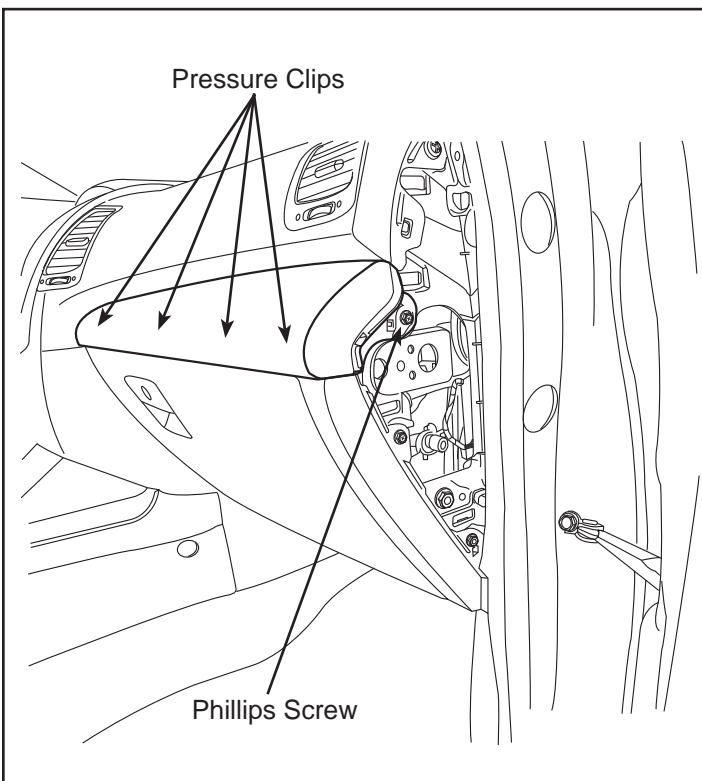
34

- N**
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1. Reinstall the inner-glovebox finish panel by engaging one (1) retaining clip into the passenger side kick panel and the three (3) push clips.
 2. Secure the inner-glove box finish panel with the six (6) phillips screws.



35

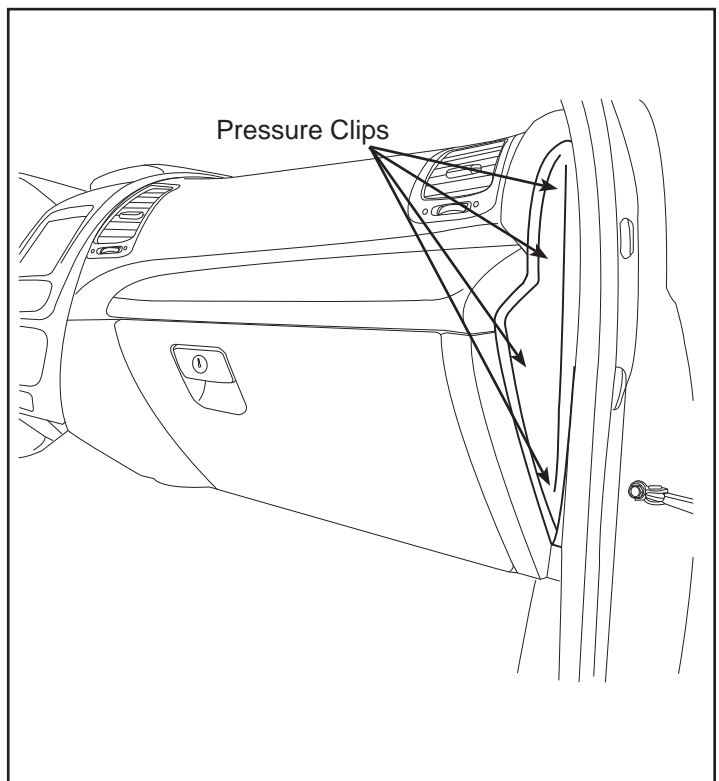
- N
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E**
1. Place glovebox back into place and secure with the two (2) hinge pins.
 2. Reconnect the glovebox door tether retainer by inserting the rectangular tab through the opening in the glovebox door.
 3. Reinstall the two (2) retainers inside the glovebox door by rotating clockwise.



#2 Phillips Screwdriver

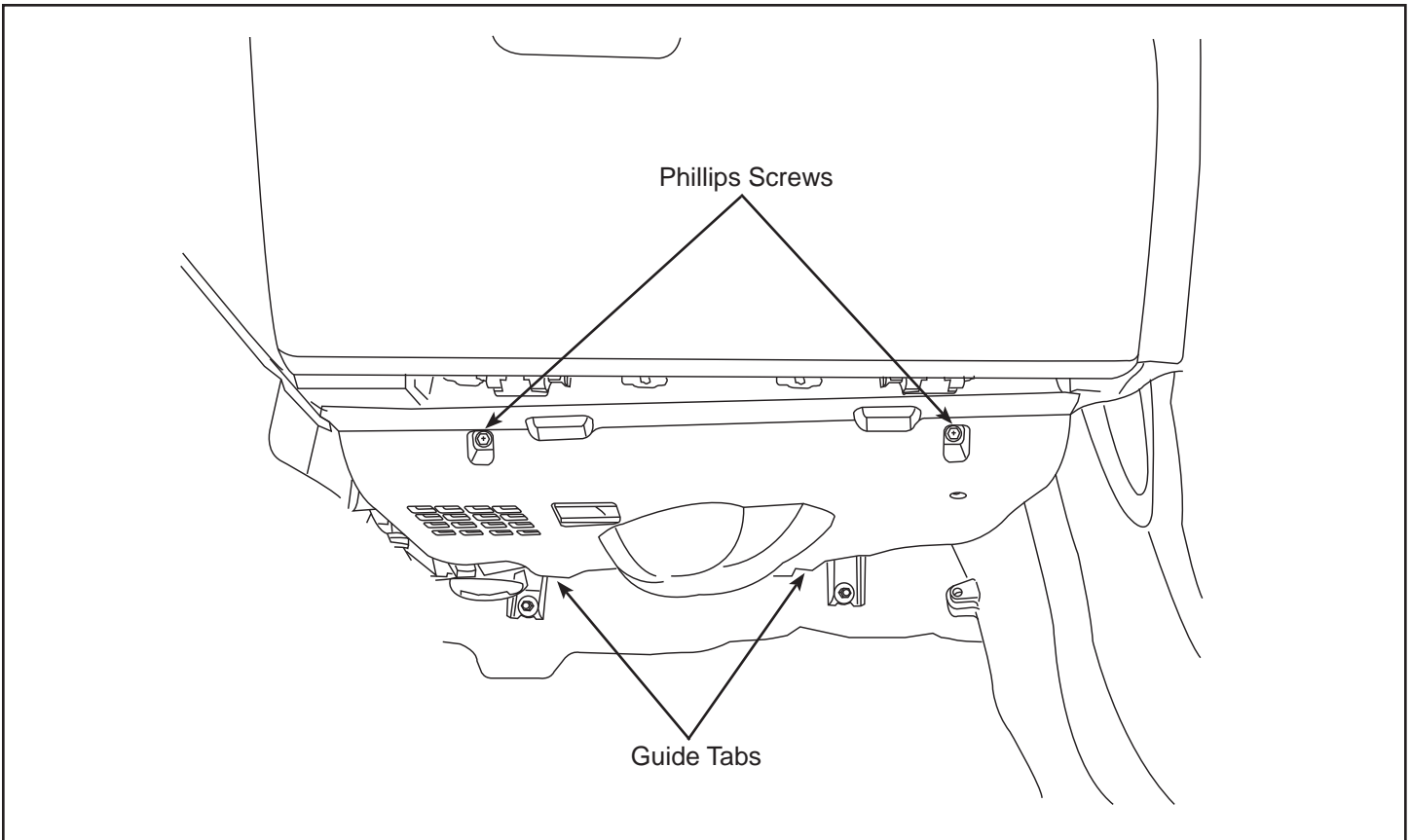
36

- N
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1. Reinstall the upper glovebox trim panel by engaging the four (4) pressure clips and securing with one (1) phillips screw.



37

- N
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1. Reinstall the passenger side dash end cap panel by engaging the four (4) pressure clips.

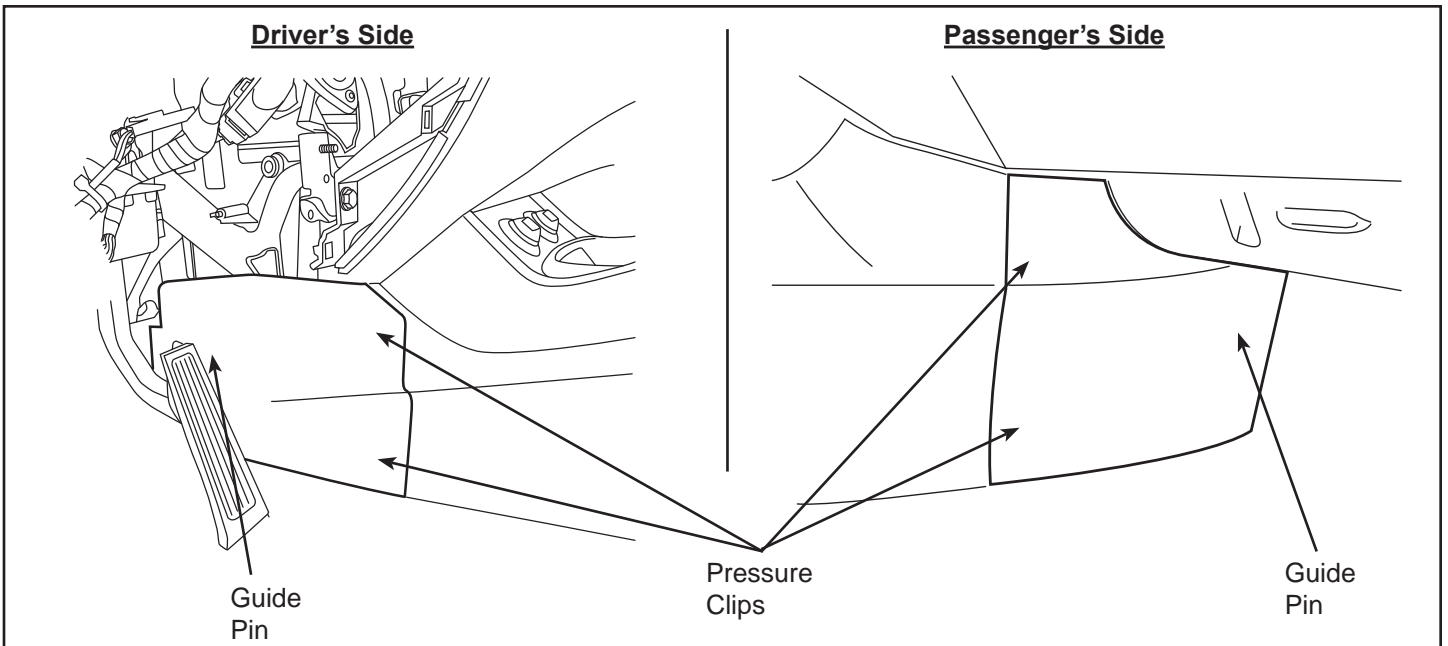


#2 Phillips Screwdriver

38

NOTE

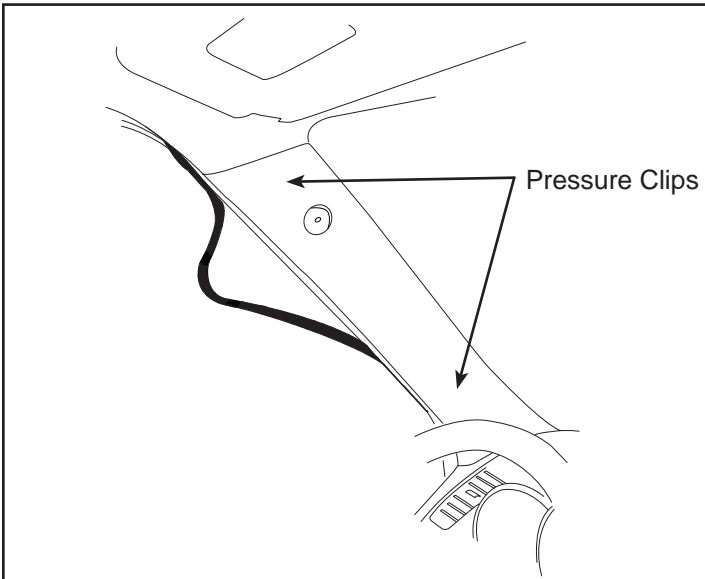
1. Reinstall the lower dash trim panel by engaging the two (2) guide tabs and securing with two (2) phillips screws.



39

NOTE

1. Reinstall the Driver's and Passenger's side lower front console trim panels by sliding onto the guide pin(s) and engaging the two (2) pressure clips.



Pressure Clips

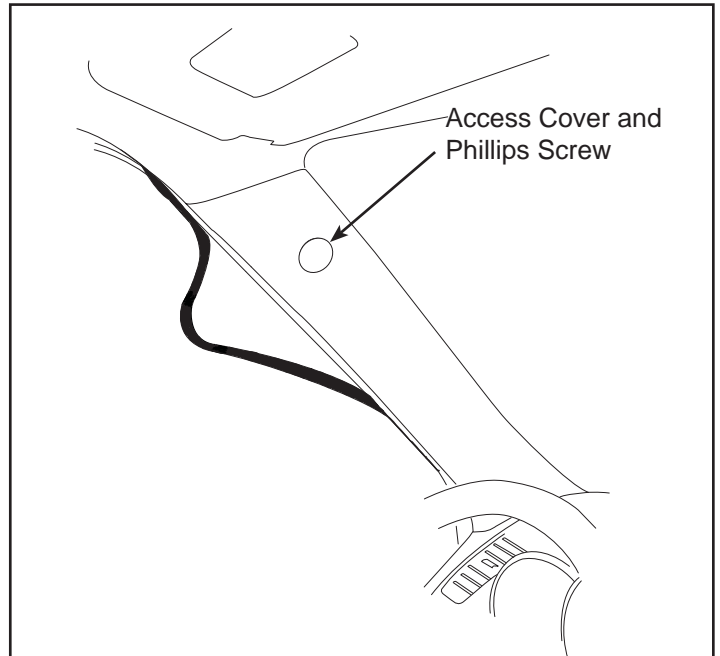


40

NOTE 1. Reinstall the driver's side "A" pillar trim by engaging the two (2) pressure clips.



CAUTION! Do not lose the two (2) pressure clips.



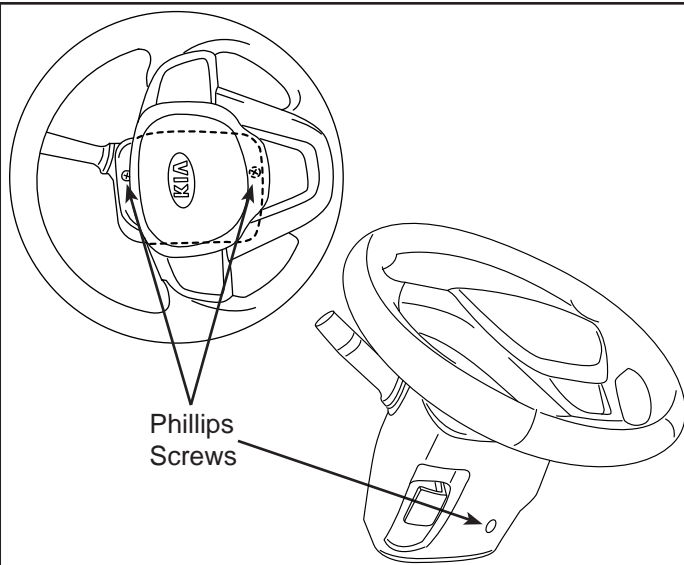
Access Cover and Phillips Screw



#2 Phillips Screwdriver

41

NOTE 1. Reinstall the one (1) #2 phillips screw and the access cover.
2. Reinstall the weatherstrip near the driver's side "A" pillar.



Phillips Screws



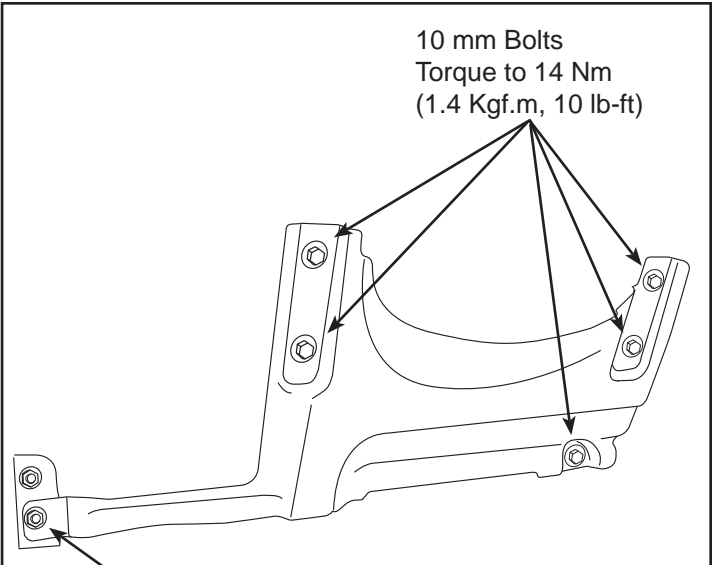
#2 Phillips Screwdriver

42

NOTE 1. Reinstall the lower steering column shroud around the steering column.
2. Reinstall the three (3) #2 phillips screws securing the steering column shroud (one (1) underneath and two (2) behind the steering wheel), as shown above. Turn the steering wheel for access.



Use care when securing the steering column shroud to avoid misalignment, which could cause unwanted noise when turning the steering wheel.



10 mm Bolts
Torque to 14 Nm
(1.4 Kgf.m, 10 lb-ft)

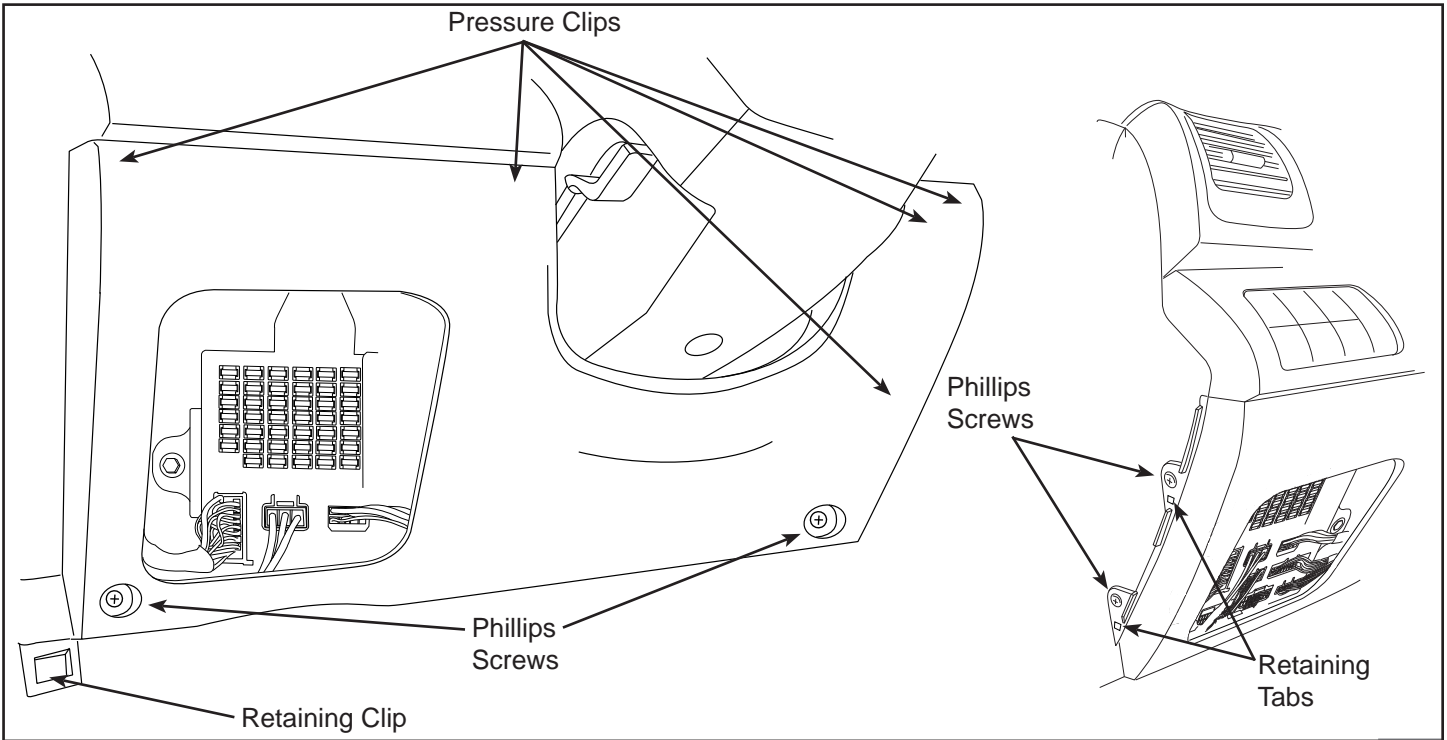
10 mm Nut
Torque to 14 Nm
(1.4 Kgf.m, 10 lb-ft)



Ratchet, Extension, 10 mm Socket and Torque Wrench

43

NOTE 1. Reinstall the five (5) 10 mm bolts and one (1) 10 mm nut securing the steel knee bolster panel. Torque bolts to 14 Nm (1.4 Kgf.m, 10 lb-ft).



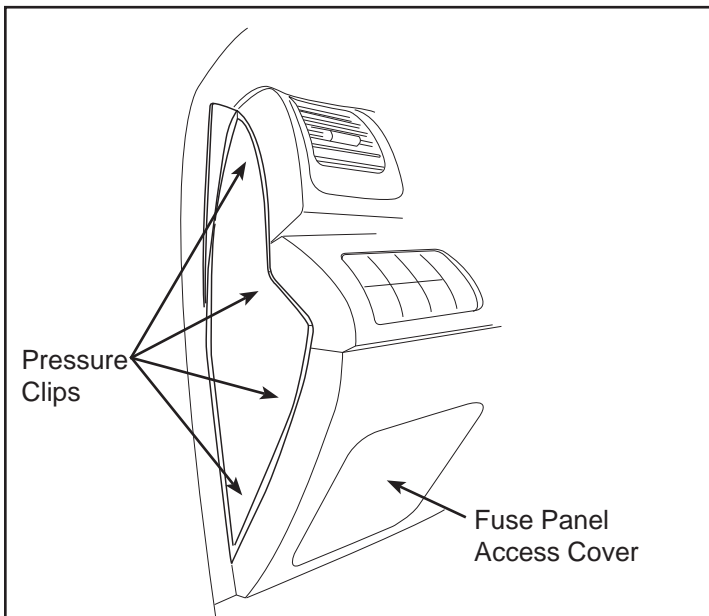
 #2 Phillips Screwdriver and Trim Tool

44

- NOTE**
1. Reinstall any connectors, including the OBDII connector that may have been removed from the lower dash finish panel.
 2. Engage the one (1) driver side kick panel retaining clip into the lower dash finish panel.
 3. Reinstall the lower dash finish panel by engaging the five (5) pressure clips, two (2) retaining tabs and four (4) #2 phillips screws.

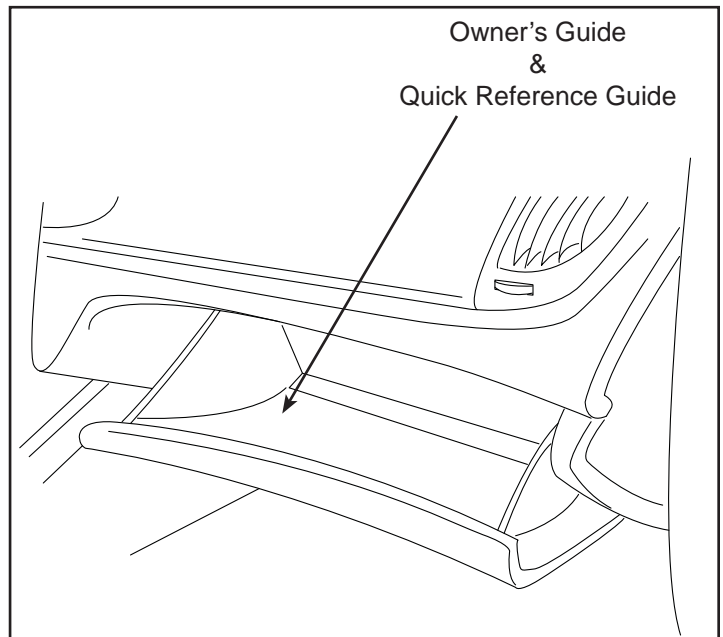


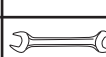
WARNING! Engine Stall Hazard. To prevent stress on the remote start wire harness, ensure the tilt/telescopic steering column is fully extended, if equipped. Ensure all connectors are fully engaged and locked in place. An engine stall could cause serious physical injury or vehicle damage.



 45

- NOTE**
1. Reinstall the driver's side dash end cap by engaging the four (4) pressure clips.
 2. Reinstall the fuse panel access cover.

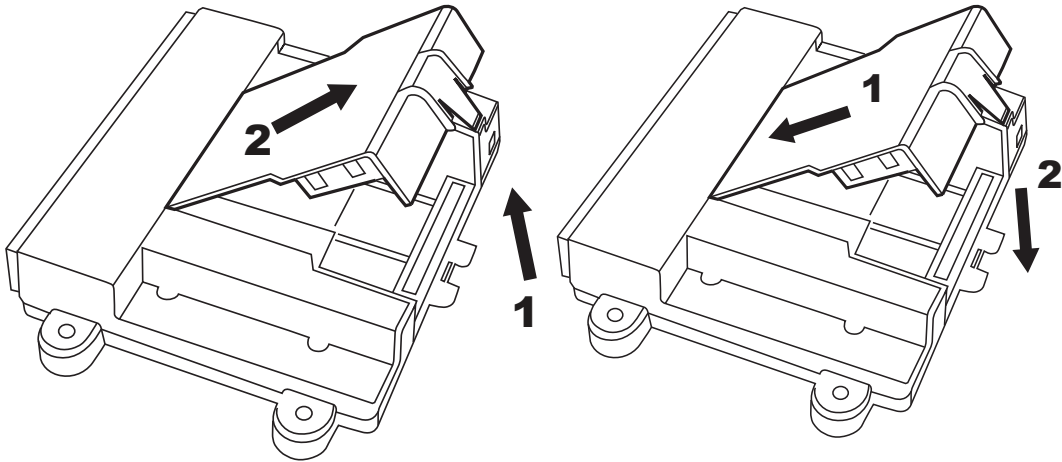


 46

- NOTE**
1. Place the Owner's Guide and the Quick Reference Guide into the vehicle's glove box.

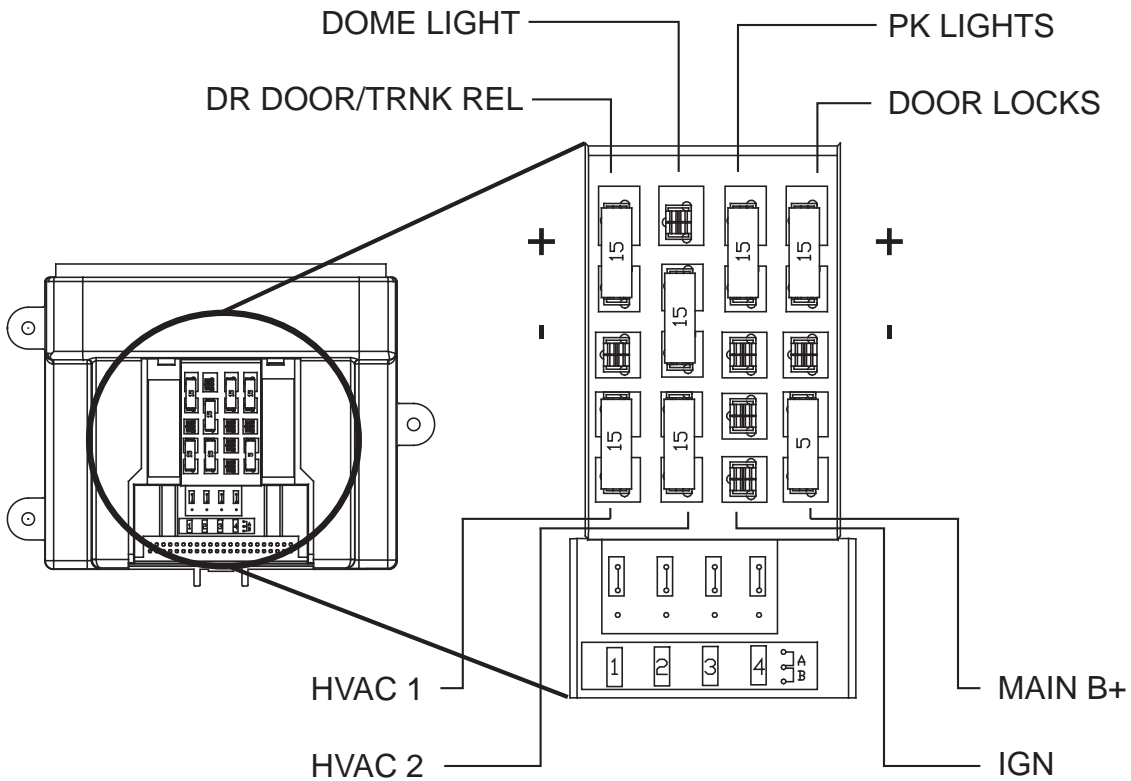
**KIA Genuine Accessories
Troubleshooting**

Accessing the DNA Card










*Verify that both rows of multi-pin connectors are aligned and seated properly.











Correct Fuse and Jumper Positions




KIA Genuine Accessories Troubleshooting

Issue / Concern	Items To Be Checked	
 System does not respond to transmitter.	Instruction Ref.	*Verify that the antenna is plugged into the back of the remote start module (Step 19). *Refer to Page 32 for Transmitter Programming and Battery Test Procedure.
	Step 19	
 Poor operating range.	Instruction Ref.	*Verify that the antenna is mounted and routed in the correct location (Step 16, 17 & 18). *Verify that the antenna is plugged into the back of the remote start module (Step 19).
	Steps 16, 17, 18 & 19	
 Vehicle will not lock/unlock using the factory Smart Key transmitter during remote start mode.	Instruction Ref.	*Verify that the 26-pin male and female M10-A connectors at the Smart Key module are connected properly (Step 30). *Verify that the fuse located under the DNA case top labeled "DOOR LOCKS" is good and installed properly per the Fuse and Jumper diagram in Troubleshooting. *Verify all three (3) connectors at the remote start CAN module are connected properly. *Verify proper DNA installation into module.
	Step 30	
 Vehicle's dome light does not turn on after pressing unlock on the factory Smart Key transmitter.	Instruction Ref.	*Verify that the 26-pin male and female I/P-L connectors are connected properly (Step 22). *Verify that the 26-pin male and female M10-A connectors at the Smart Key module are connected properly (Step 30). *Verify that the fuse located under the DNA case top labeled "DOME LIGHT" is good and installed properly per the Fuse and Jumper diagram in Troubleshooting. *Verify all three (3) connectors at the remote start CAN module are connected properly. *Verify proper DNA installation into module.
	Steps 22 & 30	
 Vehicle's parking lights do not flash.	Instruction Ref.	*Verify that the 24-pin male and female I/P-D connectors are connected properly (Step 24). *Verify that the fuses located under the DNA case top labeled "PK LIGHTS" and "DR DOOR/TRNK REL" are good and installed properly per the Fuse and Jumper diagram in Troubleshooting. *Verify proper DNA installation into module.
	Step 24	
 Vehicle's burglar horn does not beep when activating the car find or the panic feature.	Instruction Ref.	*Verify that the 26-pin male and female I/P-L connectors are connected properly (Step 22). *Verify proper DNA installation into module.
	Step 22	
 Rear defroster does not work.	Instruction Ref.	*Verify that the correct remote start harness wire was connected properly to the correct vehicle wire at the I/P-B connector (Step 23). Note: Ensure that the T-Tap and spade terminal are connected properly. Refer to Page 3 for T-Tap Installation Procedure.
	Step 23	

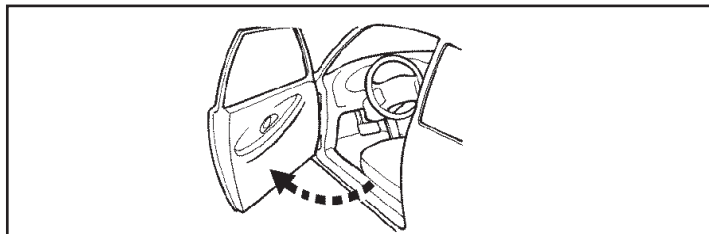
KIA Genuine Accessories Troubleshooting

Issue / Concern	Items To Be Checked	
 Headlights do not turn off, thirty (30) seconds after deactivating the remote start (Headlight switch must be in the AUTO or ON position).	Instruction Ref.	*Verify that the 26-pin male and female I/P-K connectors are connected properly (Step 25).
	Step 25	
 Vehicle starts but the factory security system was triggered.	Instruction Ref.	*Verify that the 26-pin male and female I/P-K connectors are connected properly (Step 25).
	Step 25	
 Vehicle's air conditioning/heater does not operate during remote start mode.	Instruction Ref.	*Verify that the fuses located under the DNA case top labeled "HVAC1" and "HVAC2" are good and installed properly per the Fuse and Jumper diagram in Troubleshooting. *Verify proper DNA installation into module.
 Vehicle starts, but does not remain running (may retry up to three (3) times).	Instruction Ref.	*Verify that the 26-pin male and female M10-A connectors at the Smart Key module are connected properly (Step 30). *Verify all three (3) connectors at the remote start CAN module are connected properly. *Verify proper DNA installation into module.
	Step 30	
 Horn beeps two (2) times and vehicle does not start. Brake switch / Hood switch safety input activated.	Instruction Ref.	*Verify that the 4-pin male and female E41 brake switch connectors at the brake switch are connected properly (Step 21). *Verify that the 26-pin male and female I/P-K connectors are connected properly (Step 25).
	Step 21 & 25	
 Horn beeps three (3) times and vehicle does not start. Valet mode activated.	Owner's Guide	*Verify that the Valet Mode is not engaged - Refer to the Remote Start System Owner's Guide.
	Page 7	
 Horn beeps five (5) times and vehicle does not start. Tailgate switch safety input activated.	Instruction Ref.	*Verify that the 26-pin male and female I/P-K connectors are connected properly (Step 25).
	Step 25	
 Horn beeps six (6) times and vehicle does not start. Door switch safety input activated.	Instruction Ref.	*Verify that the 26-pin male and female M10-A connectors at the Smart Key module are connected properly (Step 30). *Verify all three (3) connectors at the remote start CAN module are connected properly.
	Step 30	
 System does not remote start the vehicle.	Instruction Ref.	*Verify that the 26-pin male and female M10-A connectors at the Smart Key module are connected properly (Step 30). *Verify all three (3) connectors at the remote start CAN module are connected properly. *Verify proper DNA installation into module.
	Step 30	
 System does not remote start the vehicle. <u>CAN Module LED status during a remote start attempt:</u> *LED flashes RED continuously.	Instruction Ref.	*Verify that the 26-pin male and female M10-A connectors at the Smart Key module are connected properly (Step 30). *Verify that the fuse located under the DNA case top labeled "DOOR LOCKS" is good and installed properly per the Fuse and Jumper diagram in Troubleshooting. *Verify all three (3) connectors at the remote start CAN module are connected properly. *Verify proper DNA installation into module.
	Step 30 & 31	

KIA Genuine Accessories Troubleshooting

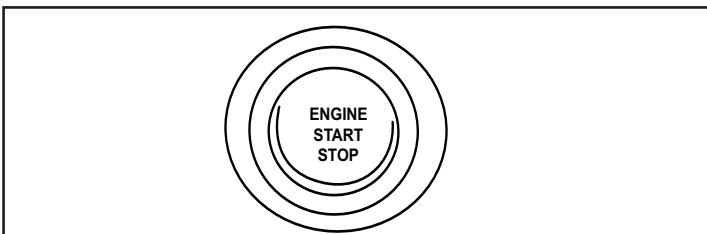
Issue / Concern	Items To Be Checked	
 <p>System does not remote start the vehicle.</p> <p><u>CAN Module LED status during a remote start attempt:</u></p> <p>*LED is solid RED continuously.</p>	<p>Instruction Ref.</p> <p>Step 30 & 31</p>	<p>*Verify that the factory Smart Key transmitter is inside the vehicle for the initial remote start.</p> <p>*Verify that the 26-pin male and female M10-A connectors at the Smart Key module are connected properly (Step 30).</p> <p>*Verify all three (3) connectors at the remote start CAN module are connected properly.</p> <p>*Verify proper DNA installation into module.</p>

KIA Genuine Accessories Transmitter Programming Procedure



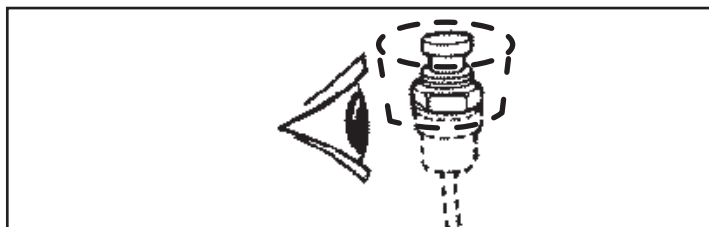
1

NOTE 1. Open the driver's door.



2

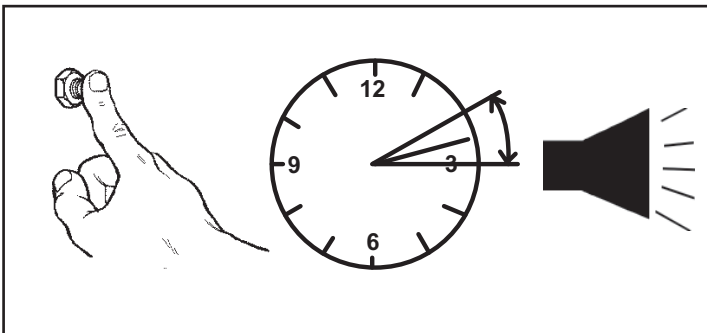
NOTE 1. With a valid factory Smart Key present, press the Engine Start/Stop button two (2) times to turn On the vehicle ignition.



3

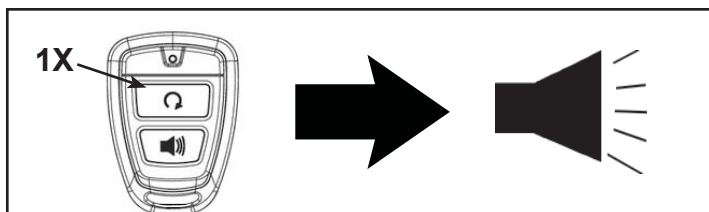
NOTE 1. Locate the programming button.

Note: The programming button is secured to the remote start wire harness, located behind the lower dash finish panel.



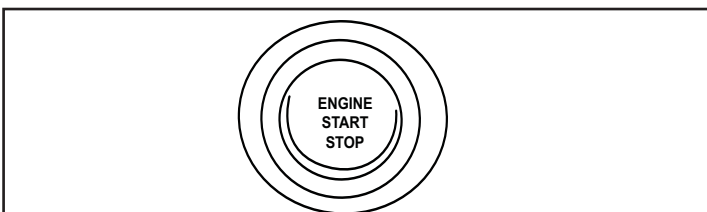
4

NOTE 1. Press and hold the programming button for ten (10) - fifteen (15) seconds, the burglar horn will beep three (3) times.
2. Release the programming button.



5

NOTE 1. Press the START button one (1) time, the burglar horn will beep one (1) time indicating that the transmitter code has been learned.
2. Repeat this process for each additional transmitter.



6

NOTE 1. Press the Engine Start/Stop button one (1) time to turn Off the vehicle ignition.

Transmitter Battery Test Procedure

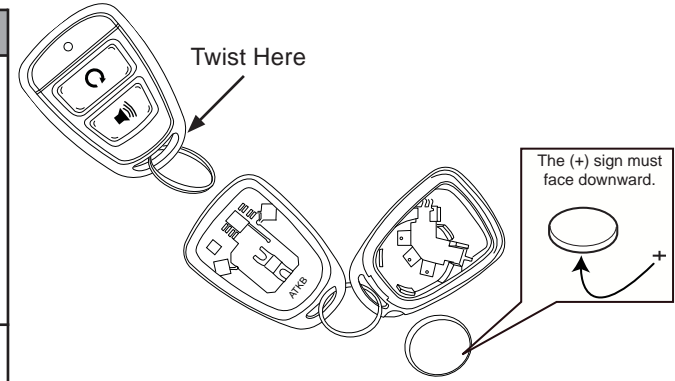
Recycle or dispose of the old battery according to your local laws or regulations.

1

NOTE

1. Insert a flat screwdriver or coin into the slot on the bottom, right of the transmitter, as shown.
2. Twist the screwdriver or coin to separate the halves apart.
3. Remove the battery from the transmitter.
4. Using a DMM, check the voltage on the battery.
5. If the voltage is less than 3 volts, replace the depleted battery with (P/N: CR2032).

Note: It is not necessary to reprogram the transmitter after battery replacement.



2014~ KIA SORENTO REMOTE START WIRING DIAGRAM

24-PIN MAIN HARNESS

CAV. CIRCUIT NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	IGNITION 1 INPUT/DOOR	20 BK
2	IGNITION 2 OUTPUT	16 RD
3	IGNITION 3 OUTPUT	20 YL/RD
4	IGNITION 4 OUTPUT	16 BK
5	IGNITION 5 OUTPUT	16 BK
6	IGNITION 6 OUTPUT	16 BK
7	IGNITION 7 OUTPUT	16 BK
8	IGNITION 8 OUTPUT	16 BK
9	IGNITION 9 OUTPUT	16 BK
10	IGNITION 10 OUTPUT	16 BK
11	IGNITION 11 OUTPUT	16 BK
12	IGNITION 12 OUTPUT	16 BK
13	IGNITION 13 OUTPUT	16 BK
14	IGNITION 14 OUTPUT	16 BK
15	IGNITION 15 OUTPUT	16 BK
16	IGNITION 16 OUTPUT	16 BK
17	IGNITION 17 OUTPUT	16 BK
18	IGNITION 18 OUTPUT	16 BK
19	IGNITION 19 OUTPUT	16 BK
20	IGNITION 20 OUTPUT	16 BK
21	IGNITION 21 OUTPUT	16 BK
22	IGNITION 22 OUTPUT	16 BK
23	IGNITION 23 OUTPUT	16 BK
24	IGNITION 24 OUTPUT	16 BK

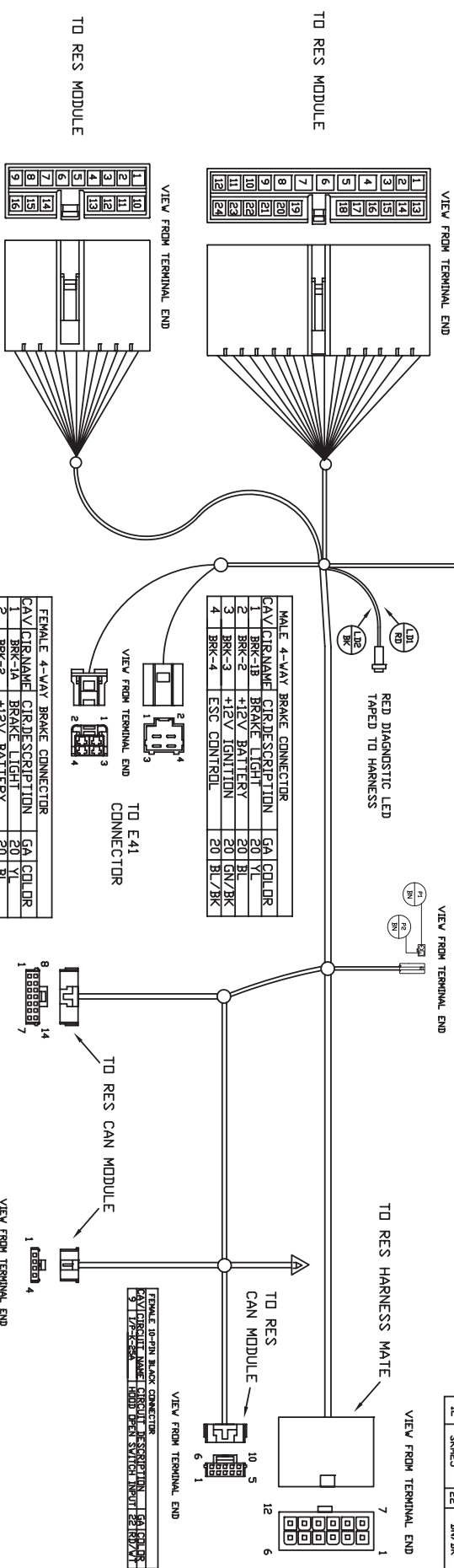
TO RES MODULE

6	5	4	3	2	1
10	9	8	7	6	5

10-PIN CAR START HARNESS

CAV. CIRCUIT NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	IGNITION 1 INPUT	20 BK
2	IGNITION 2 OUTPUT	16 RD
3	IGNITION 3 OUTPUT	20 YL/RD
4	IGNITION 4 OUTPUT	16 BK
5	IGNITION 5 OUTPUT	16 BK
6	IGNITION 6 OUTPUT	16 BK
7	IGNITION 7 OUTPUT	16 BK
8	IGNITION 8 OUTPUT	16 BK
9	IGNITION 9 OUTPUT	16 BK
10	IGNITION 10 OUTPUT	16 BK

CAV. CIRCUIT	GA. COLOR
1	RD
2	YL/RD
3	BK
4	PK/BK
5	PK/BK
6	BK/RD
7	YL/RK
8	YL/RK
9	YL/RK
10	PK
11	BK/DR
12	BK/BK



16-PIN EXTENDED FUNCTION HARNESS

CAV. CIRCUIT NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	IGNITION 1 INPUT	20 BK
2	IGNITION 2 OUTPUT	16 RD
3	IGNITION 3 OUTPUT	20 YL/RD
4	IGNITION 4 OUTPUT	16 BK
5	IGNITION 5 OUTPUT	16 BK
6	IGNITION 6 OUTPUT	16 BK
7	IGNITION 7 OUTPUT	16 BK
8	IGNITION 8 OUTPUT	16 BK
9	IGNITION 9 OUTPUT	16 BK
10	IGNITION 10 OUTPUT	16 BK
11	IGNITION 11 OUTPUT	16 BK
12	IGNITION 12 OUTPUT	16 BK
13	IGNITION 13 OUTPUT	16 BK
14	IGNITION 14 OUTPUT	16 BK
15	IGNITION 15 OUTPUT	16 BK
16	IGNITION 16 OUTPUT	16 BK

MALE 4-WAY BRAKE CONNECTOR

CAV. CIRCUIT NAME	CIR. DESCRIPTION	GA. COLOR
1	BRK-1	20 BL
2	BRK-2	20 BL
3	BRK-3	20 BL/BK
4	BRK-4	20 BL/BK

FEMALE 14-PIN BLACK CONNECTOR

CAV. CIRCUIT NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	IGNITION 1 INPUT	20 BK
2	IGNITION 2 OUTPUT	16 RD
3	IGNITION 3 OUTPUT	20 YL/RD
4	IGNITION 4 OUTPUT	16 BK
5	IGNITION 5 OUTPUT	16 BK
6	IGNITION 6 OUTPUT	16 BK
7	IGNITION 7 OUTPUT	16 BK
8	IGNITION 8 OUTPUT	16 BK
9	IGNITION 9 OUTPUT	16 BK
10	IGNITION 10 OUTPUT	16 BK
11	IGNITION 11 OUTPUT	16 BK
12	IGNITION 12 OUTPUT	16 BK
13	IGNITION 13 OUTPUT	16 BK
14	IGNITION 14 OUTPUT	16 BK

FEMALE 10-PIN BLACK CONNECTOR

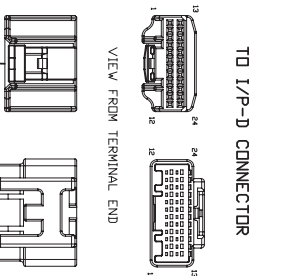
CAV. CIRCUIT NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	IGNITION 1 INPUT	20 BK
2	IGNITION 2 OUTPUT	16 RD
3	IGNITION 3 OUTPUT	20 YL/RD
4	IGNITION 4 OUTPUT	16 BK
5	IGNITION 5 OUTPUT	16 BK
6	IGNITION 6 OUTPUT	16 BK
7	IGNITION 7 OUTPUT	16 BK
8	IGNITION 8 OUTPUT	16 BK
9	IGNITION 9 OUTPUT	16 BK
10	IGNITION 10 OUTPUT	16 BK

NOTE:
1. = CONTINUED ON NEXT DRAWING

2014 ~ KIA SORENTO REMOTE START WIRING DIAGRAM

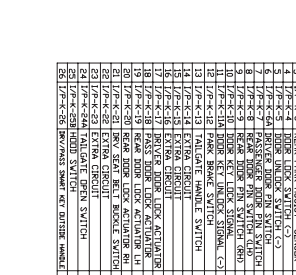
MALE 24-PIN CONNECTOR (TO 1/P-D JB)

CAV/CIR NAME	CIRCUIT DESCRIPTION	GA	COLOR
1	1/P-D-1	20	BL
2	1/P-D-2	20	BL
3	1/P-D-3	20	BL
4	1/P-D-4	20	BL
5	1/P-D-5	20	BL
6	1/P-D-6	20	BL
7	1/P-D-7	20	BL
8	1/P-D-8	20	BL
9	1/P-D-9	20	BL
10	1/P-D-10	20	BL
11	1/P-D-11	20	BL
12	1/P-D-12	20	BL
13	1/P-D-13	20	BL
14	1/P-D-14	20	BL
15	1/P-D-15	20	BL
16	1/P-D-16	20	BL
17	1/P-D-17	20	BL
18	1/P-D-18	20	BL
19	1/P-D-19	20	BL
20	1/P-D-20	20	BL
21	1/P-D-21	20	BL
22	1/P-D-22	20	BL
23	1/P-D-23	20	BL
24	1/P-D-24	20	BL



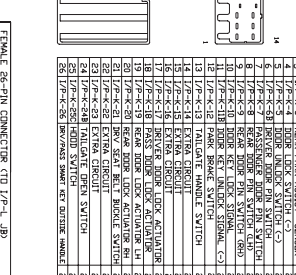
MALE 24-PIN CONNECTOR (TO 1/P-K JB)

CAV/CIR NAME	CIRCUIT DESCRIPTION	GA	COLOR
1	1/P-K-1	20	BL
2	1/P-K-2	20	BL
3	1/P-K-3	20	BL
4	1/P-K-4	20	BL
5	1/P-K-5	20	BL
6	1/P-K-6	20	BL
7	1/P-K-7	20	BL
8	1/P-K-8	20	BL
9	1/P-K-9	20	BL
10	1/P-K-10	20	BL
11	1/P-K-11	20	BL
12	1/P-K-12	20	BL
13	1/P-K-13	20	BL
14	1/P-K-14	20	BL
15	1/P-K-15	20	BL
16	1/P-K-16	20	BL
17	1/P-K-17	20	BL
18	1/P-K-18	20	BL
19	1/P-K-19	20	BL
20	1/P-K-20	20	BL
21	1/P-K-21	20	BL
22	1/P-K-22	20	BL
23	1/P-K-23	20	BL
24	1/P-K-24	20	BL



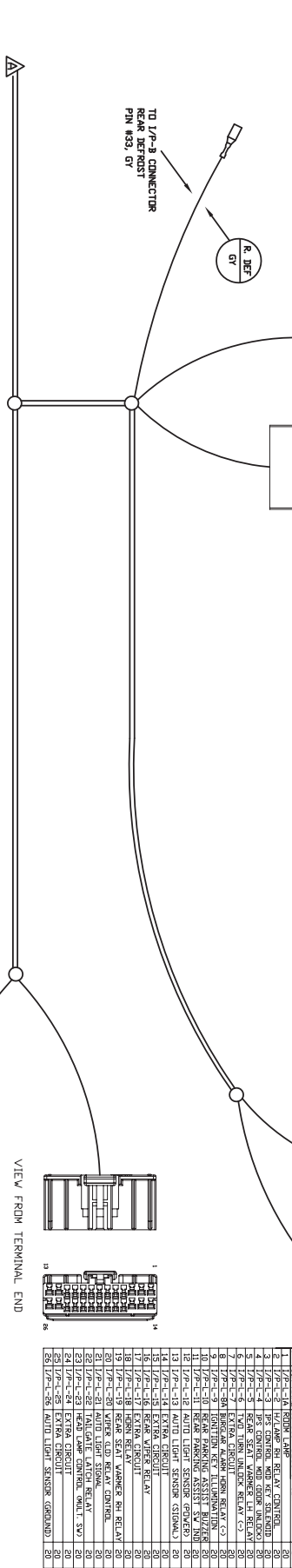
MALE 24-PIN CONNECTOR (TO 1/P-L JB)

CAV/CIR NAME	CIRCUIT DESCRIPTION	GA	COLOR
1	1/P-L-1	20	BL
2	1/P-L-2	20	BL
3	1/P-L-3	20	BL
4	1/P-L-4	20	BL
5	1/P-L-5	20	BL
6	1/P-L-6	20	BL
7	1/P-L-7	20	BL
8	1/P-L-8	20	BL
9	1/P-L-9	20	BL
10	1/P-L-10	20	BL
11	1/P-L-11	20	BL
12	1/P-L-12	20	BL
13	1/P-L-13	20	BL
14	1/P-L-14	20	BL
15	1/P-L-15	20	BL
16	1/P-L-16	20	BL
17	1/P-L-17	20	BL
18	1/P-L-18	20	BL
19	1/P-L-19	20	BL
20	1/P-L-20	20	BL
21	1/P-L-21	20	BL
22	1/P-L-22	20	BL
23	1/P-L-23	20	BL
24	1/P-L-24	20	BL

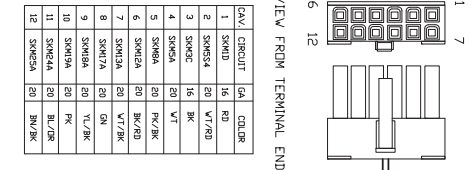


MALE 24-PIN CONNECTOR (TO 1/P-B JB)

CAV/CIR NAME	CIRCUIT DESCRIPTION	GA	COLOR
1	1/P-B-1	20	BL
2	1/P-B-2	20	BL
3	1/P-B-3	20	BL
4	1/P-B-4	20	BL
5	1/P-B-5	20	BL
6	1/P-B-6	20	BL
7	1/P-B-7	20	BL
8	1/P-B-8	20	BL
9	1/P-B-9	20	BL
10	1/P-B-10	20	BL
11	1/P-B-11	20	BL
12	1/P-B-12	20	BL
13	1/P-B-13	20	BL
14	1/P-B-14	20	BL
15	1/P-B-15	20	BL
16	1/P-B-16	20	BL
17	1/P-B-17	20	BL
18	1/P-B-18	20	BL
19	1/P-B-19	20	BL
20	1/P-B-20	20	BL
21	1/P-B-21	20	BL
22	1/P-B-22	20	BL
23	1/P-B-23	20	BL
24	1/P-B-24	20	BL

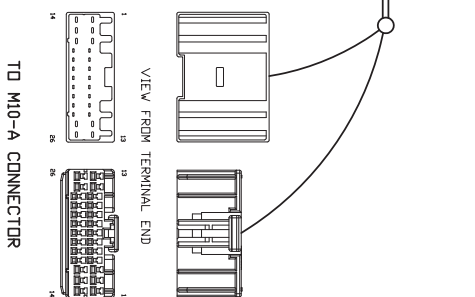


TO RES HARNESS MATE



MALE 26-PIN CONNECTOR (TO SKM - MID-A)

CAV/CIR NAME	CIRCUIT DESCRIPTION	GA	COLOR
1	SKM1	20	RD
2	SKM2	20	RD
3	SKM3	20	RD
4	SKM4	20	RD
5	SKM5	20	RD
6	SKM6	20	RD
7	SKM7	20	RD
8	SKM8	20	RD
9	SKM9	20	RD
10	SKM10	20	RD
11	SKM11	20	RD
12	SKM12	20	RD
13	SKM13	20	RD
14	SKM14	20	RD
15	SKM15	20	RD
16	SKM16	20	RD
17	SKM17	20	RD
18	SKM18	20	RD
19	SKM19	20	RD
20	SKM20	20	RD
21	SKM21	20	RD
22	SKM22	20	RD
23	SKM23	20	RD
24	SKM24	20	RD
25	SKM25	20	RD
26	SKM26	20	RD



MALE 26-PIN CONNECTOR (TO SKM - MID-A)

CAV/CIR NAME	CIRCUIT DESCRIPTION	GA	COLOR
1	SKM1	20	RD
2	SKM2	20	RD
3	SKM3	20	RD
4	SKM4	20	RD
5	SKM5	20	RD
6	SKM6	20	RD
7	SKM7	20	RD
8	SKM8	20	RD
9	SKM9	20	RD
10	SKM10	20	RD
11	SKM11	20	RD
12	SKM12	20	RD
13	SKM13	20	RD
14	SKM14	20	RD
15	SKM15	20	RD
16	SKM16	20	RD
17	SKM17	20	RD
18	SKM18	20	RD
19	SKM19	20	RD
20	SKM20	20	RD
21	SKM21	20	RD
22	SKM22	20	RD
23	SKM23	20	RD
24	SKM24	20	RD
25	SKM25	20	RD
26	SKM26	20	RD



MALE 26-PIN CONNECTOR (TO 1/P-L JB)

CAV/CIR NAME	CIRCUIT DESCRIPTION	GA	COLOR
1	1/P-L-1	20	BL
2	1/P-L-2	20	BL
3	1/P-L-3	20	BL
4	1/P-L-4	20	BL
5	1/P-L-5	20	BL
6	1/P-L-6	20	BL
7	1/P-L-7	20	BL
8	1/P-L-8	20	BL
9	1/P-L-9	20	BL
10	1/P-L-10	20	BL
11	1/P-L-11	20	BL
12	1/P-L-12	20	BL
13	1/P-L-13	20	BL
14	1/P-L-14	20	BL
15	1/P-L-15	20	BL
16	1/P-L-16	20	BL
17	1/P-L-17	20	BL
18	1/P-L-18	20	BL
19	1/P-L-19	20	BL
20	1/P-L-20	20	BL
21	1/P-L-21	20	BL
22	1/P-L-22	20	BL
23	1/P-L-23	20	BL
24	1/P-L-24	20	BL
25	1/P-L-25	20	BL
26	1/P-L-26	20	BL