



KIA MOTORS

KIA Genuine Accessories

Vehicle Model Sorento (Key Start)
Model Year 2014 ~
Part No. 1U056 ADU00

Accessory Remote Engine Start
Difficulty (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 NOT 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.		
	Denotes cautions to be taken to avoid vehicle and component damage.	NOTE	Denotes instructional steps necessary to complete the process.		

Basic Required Hand Tools

Ratchet	10 mm Socket	Tape Measure
#2 Phillips Screwdriver	Pliers	Extension
Trim Tool	Wire Cutter	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 17.

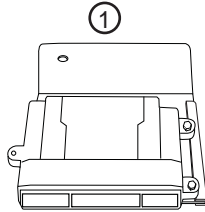
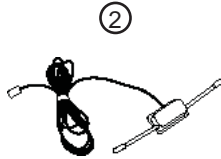







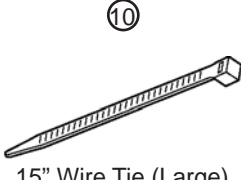


Technical Support

For Authorized Dealers - (800) 667-5176


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


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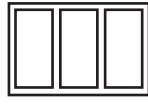
 ① Control Module P/N: U8560 00002 DNA P/N: 1U056 ADUS1	 ② P/N: 00056 ADU50	 ③ P/N: U8560 00009	 ④ P/N: 1U056 ADUS2	 ⑤ Hardware Kit
 ⑥ Installation Instructions	 ⑦ Owner's Guide	 ⑧ Quick Reference Guide	 ⑨ Warning Label	 ⑩ 15" Wire Tie (Large)


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

Hardware Kit Contents

A	
12* 8" Wire Tie (Small)	

B	
2* Female T-Tap	

C	
3 Small Foam Tape	

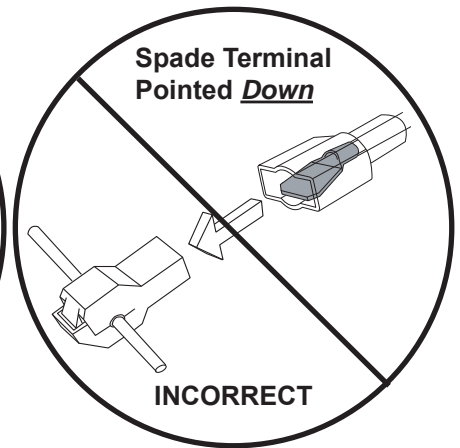
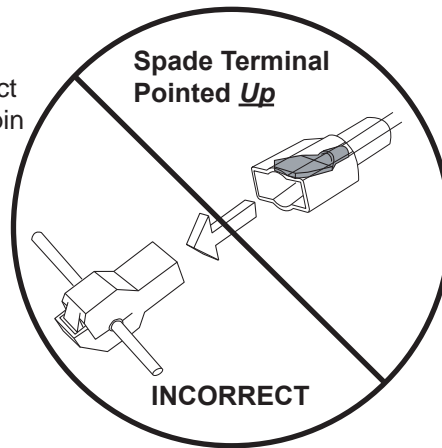
D	
1 M6 Serrated Flange Hex Nut	

Hardware Kit Total
18

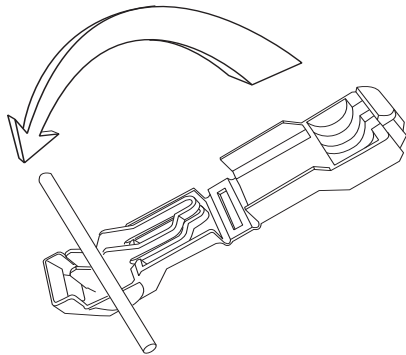
* Extra components intentionally placed in kit as spares. Please follow directions for proper placement of each component.

T-Tap Installation Procedure

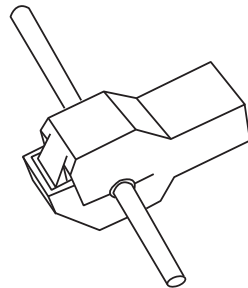
Factory wire harness colors are subject to change. Please use the specified pin # in the harness connector to identify the correct wire for T-Tap installation.



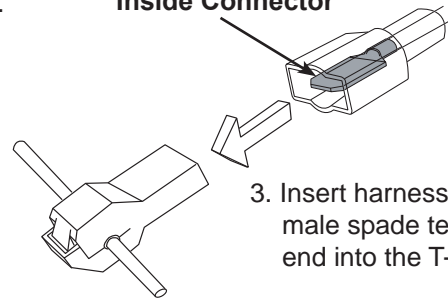
1. Place T-Tap on vehicle wire.



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

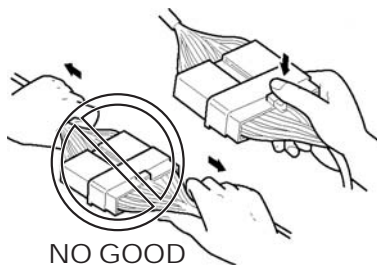


CORRECT
Spade Terminal CENTERED
Inside Connector



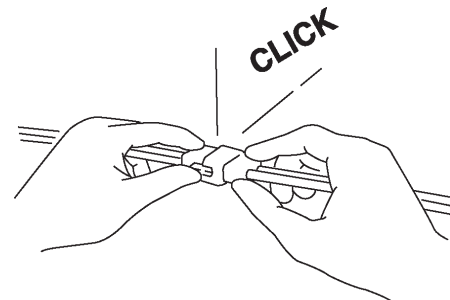
3. Insert harness wire with male spade terminal end into the T-Tap.

**** 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.

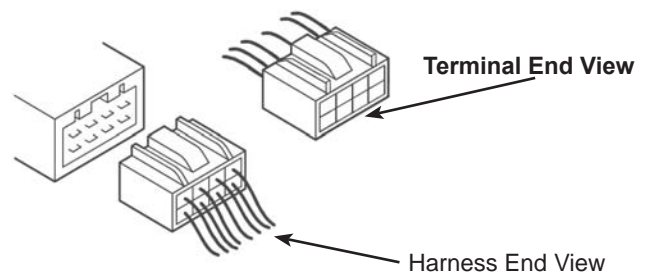
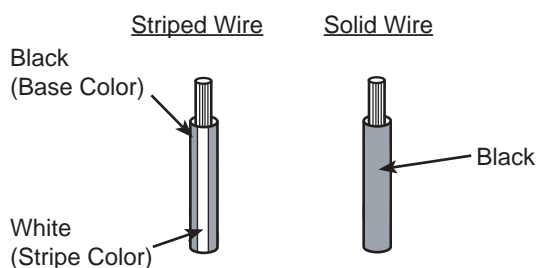


Locking Connectors

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.



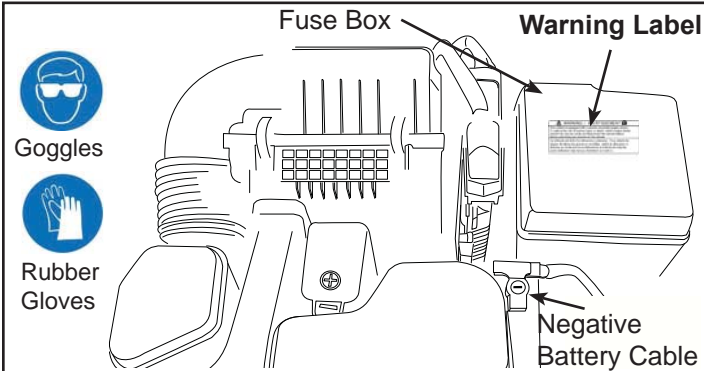
Connector Diagrams

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

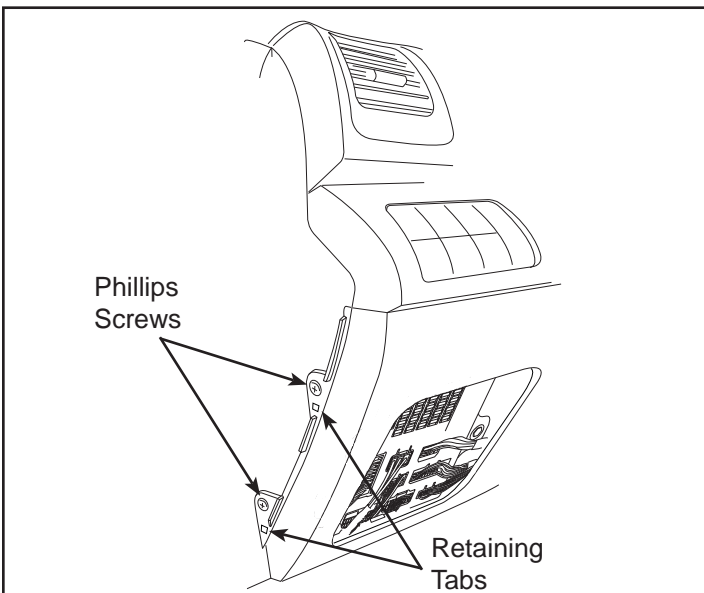
1. Clean hands.
2. Set the parking brake and open driver's door window.
3. Vehicle should be at room temperature.
4. **Ensure vehicle is equipped with automatic transmission, power door locks and power windows. If the vehicle is not equipped with these options, do not proceed. Ensure vehicle DOES NOT 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**

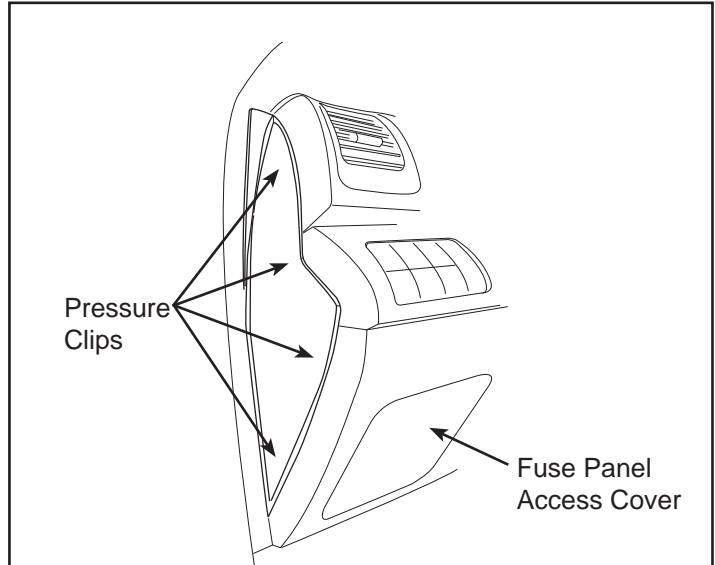
- N O T E**
1. Remove and isolate the negative battery cable from the battery.
 2. Using alcohol and a clean cloth, clean the top surface of the underhood fuse box. Ensure the surface is completely dry.
 3. Remove the backing on the warning label and mount in place, as shown above.

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.



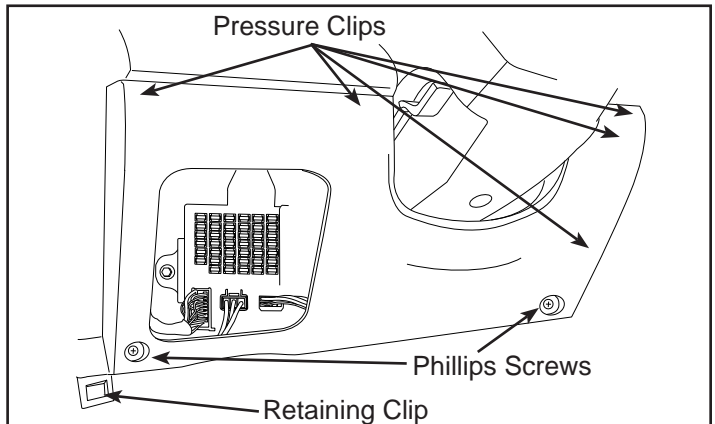
#2 Phillips Screwdriver **3**

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



Trim Tool **2**

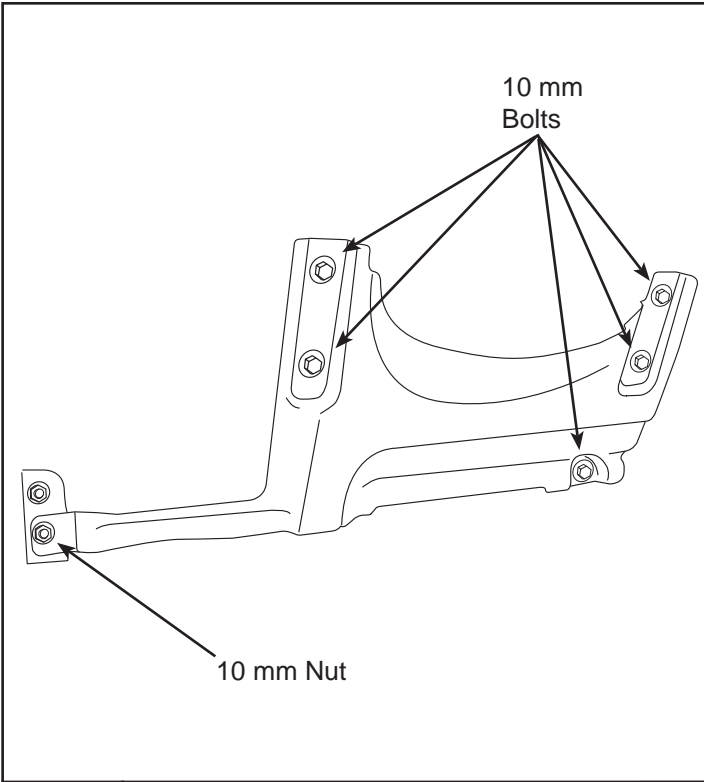
- N O T E**
1. Remove the fuse panel access cover to assist in the removal of the driver's side dash end cap.
 2. Remove the driver's side dash end cap panel by prying outward to disengage the four (4) pressure clips.



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

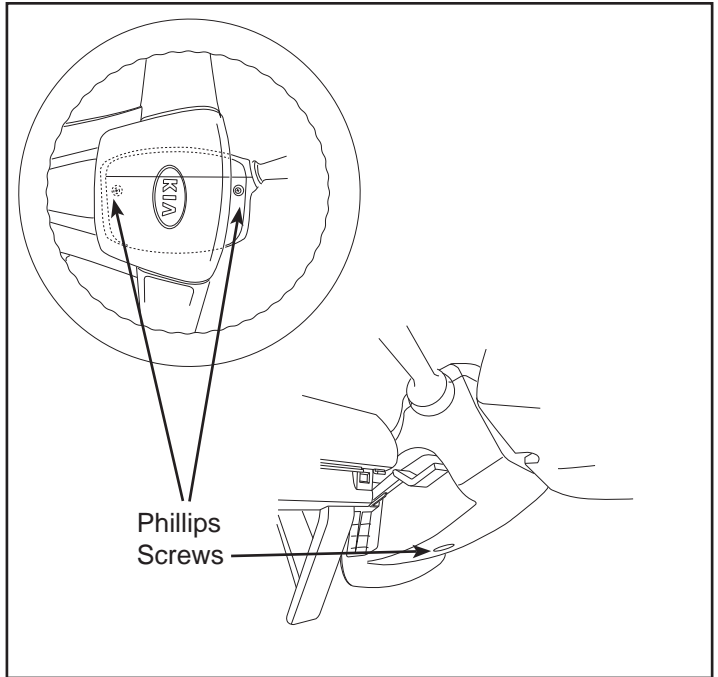
- N O T E**
1. Remove the lower dash finish panel by removing the two (2) #2 phillips screws from the bottom of the panel. Using a trim tool, carefully pry outward to release the two (2) retaining tabs from the side, as shown in Step 3 and the five (5) pressure clips from the front of the panel.
 2. Disengage the driver's 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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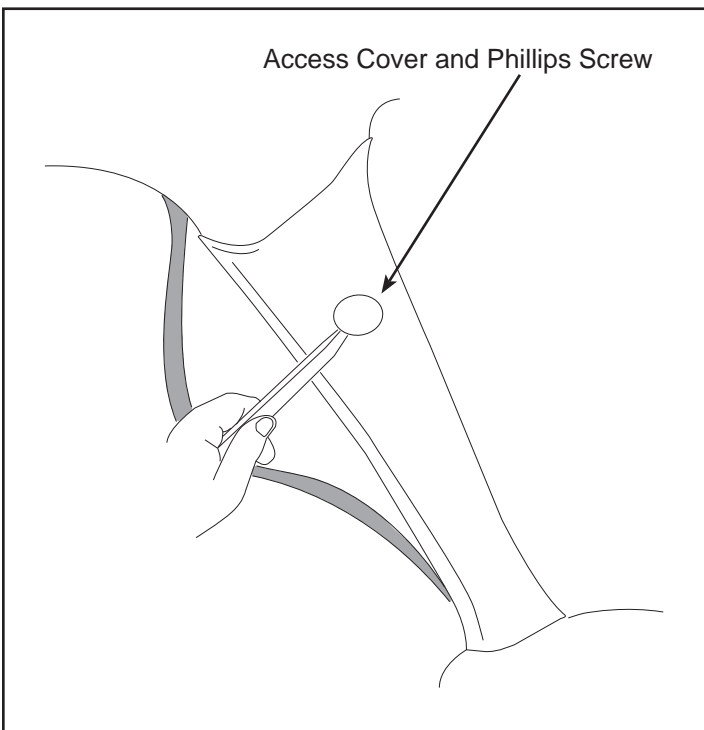
Ratchet, Extension and 10 mm Socket **5**

- NOTE**
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.



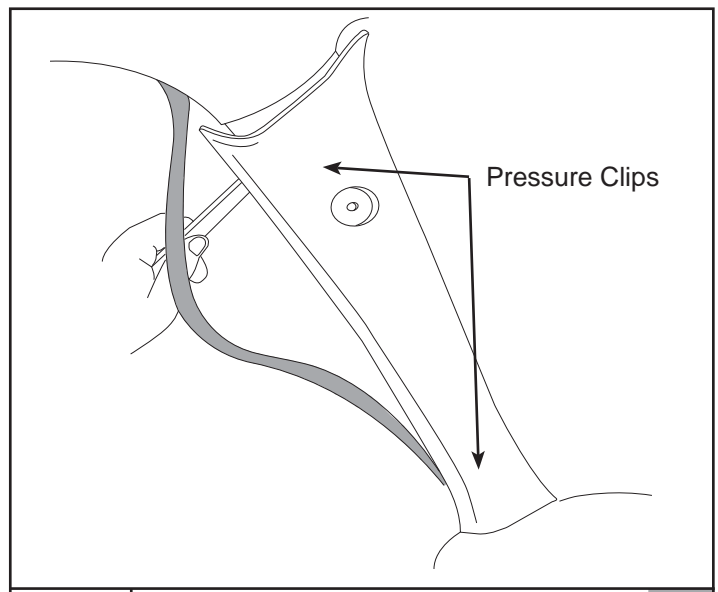
#2 Phillips Screwdriver and Trim Tool **6**

- NOTE**
1. 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.
 2. Release the tilt steering wheel adjuster lever.
 3. 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**

- NOTE**
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.

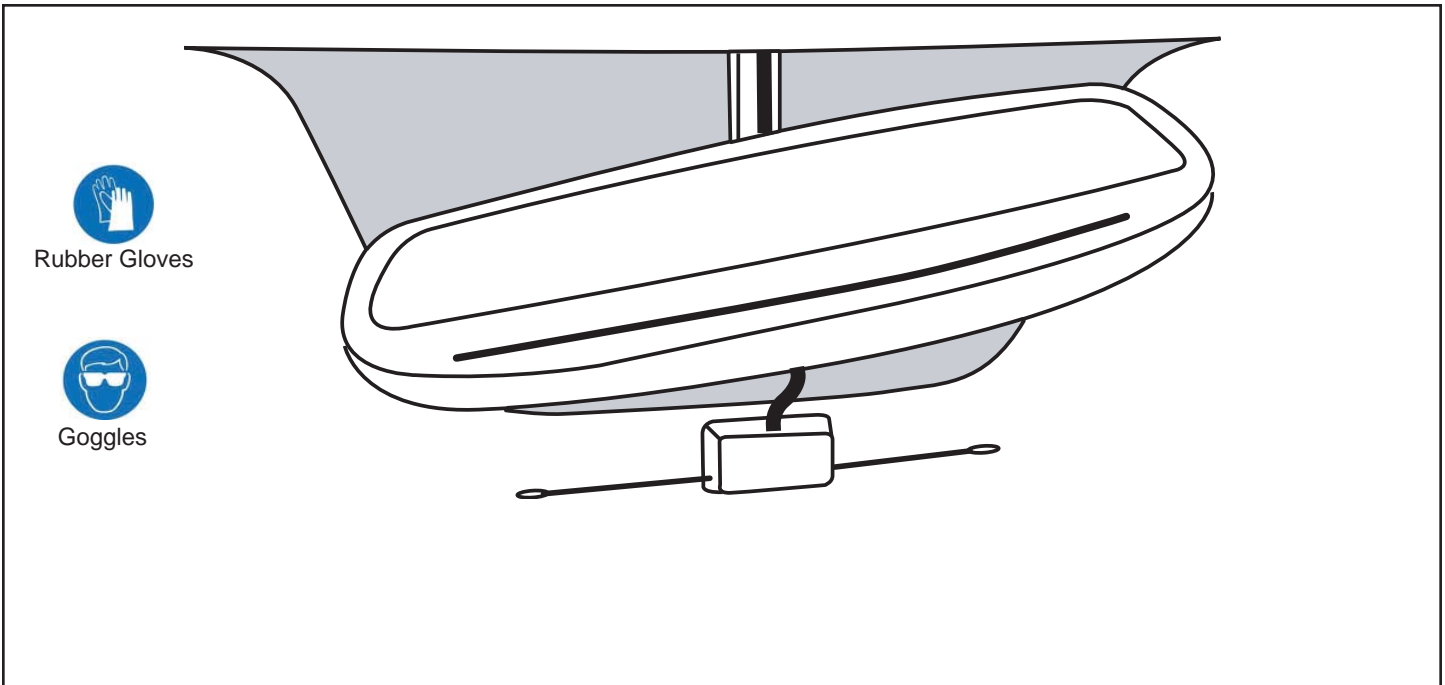


Trim Tool **8**

- NOTE**
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.

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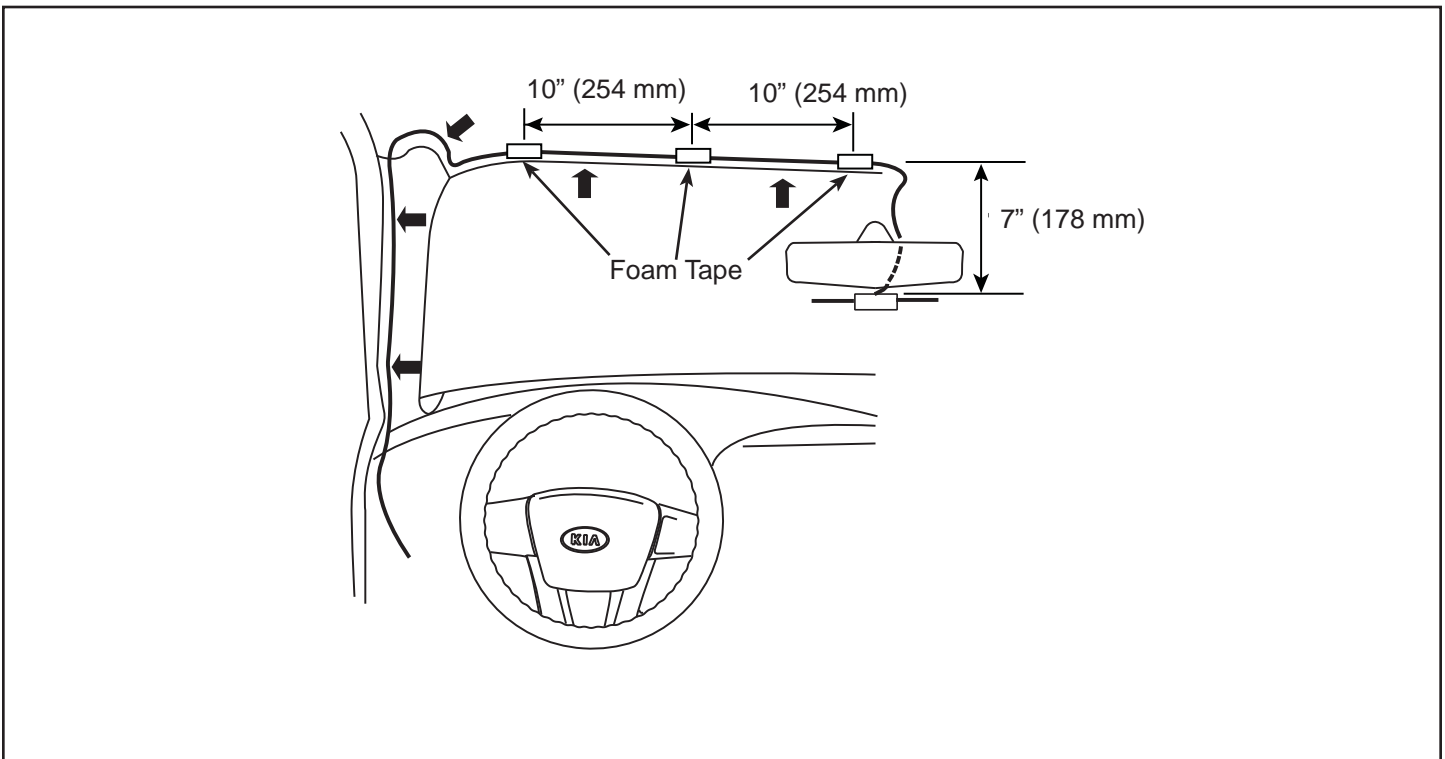


Alcohol Cleaner, Clean Cloth and Tape Measure

9

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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.

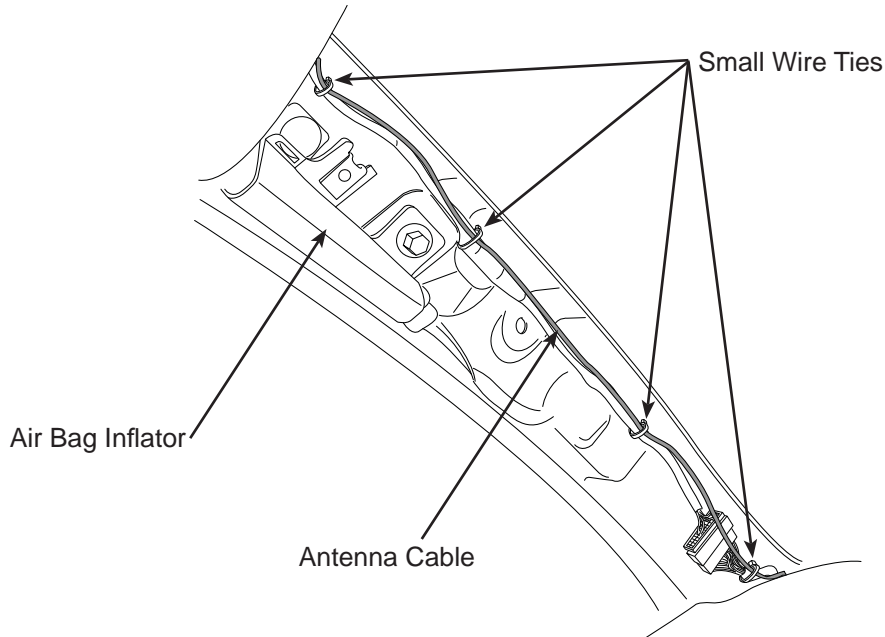


Trim Tool and Tape Measure

10

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 Cutter

11

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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.



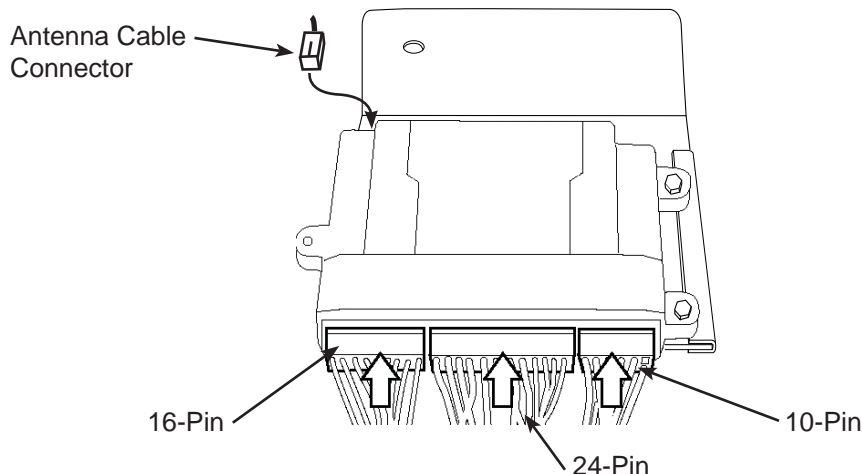
WARNING! Air Bag system interference hazard. **DO NOT** wrap antenna cable around or secure antenna cable to any Air Bag components. Damage to the vehicle's Air Bag system may occur which could result in serious physical injury.



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.



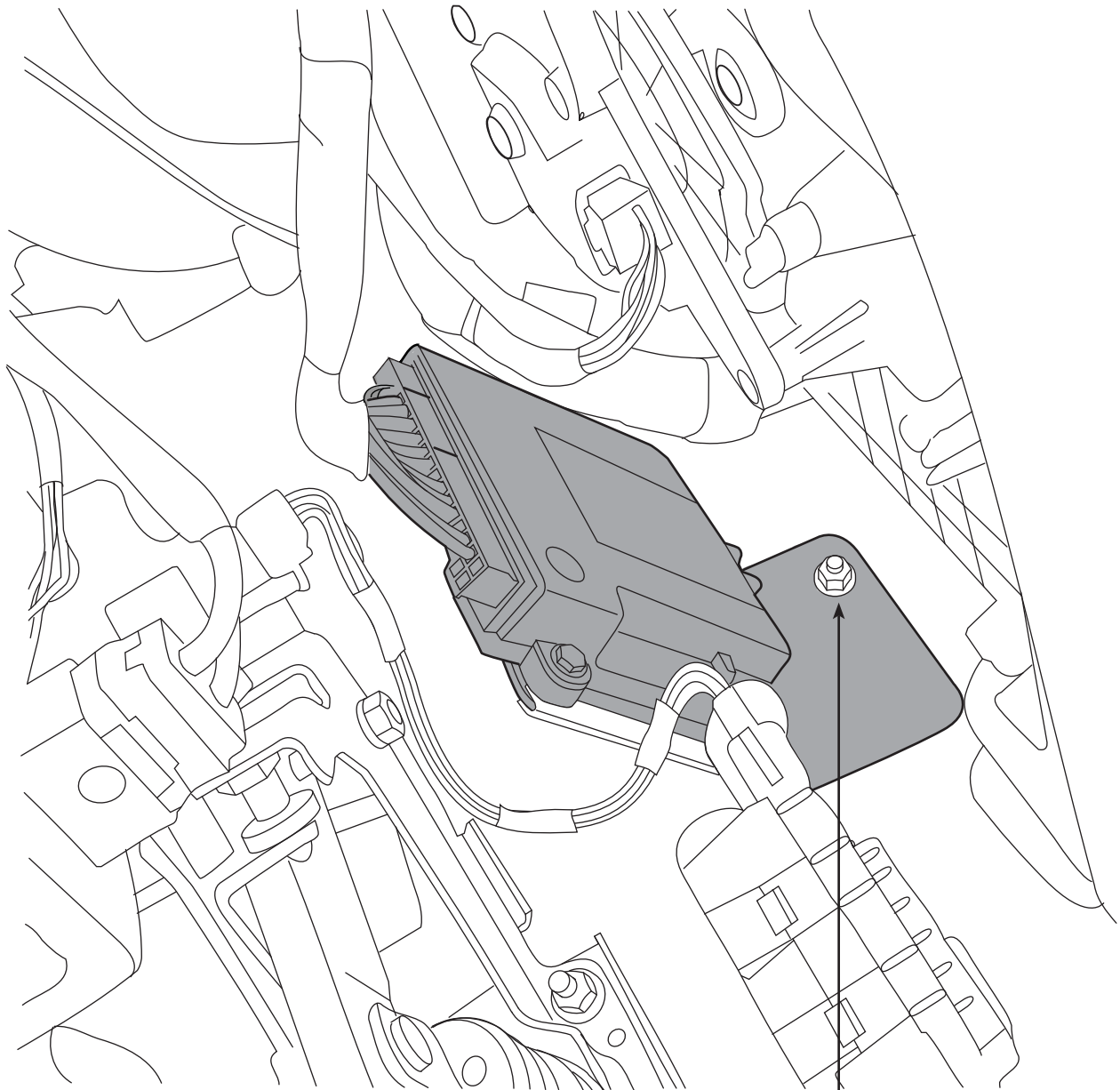


12

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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.



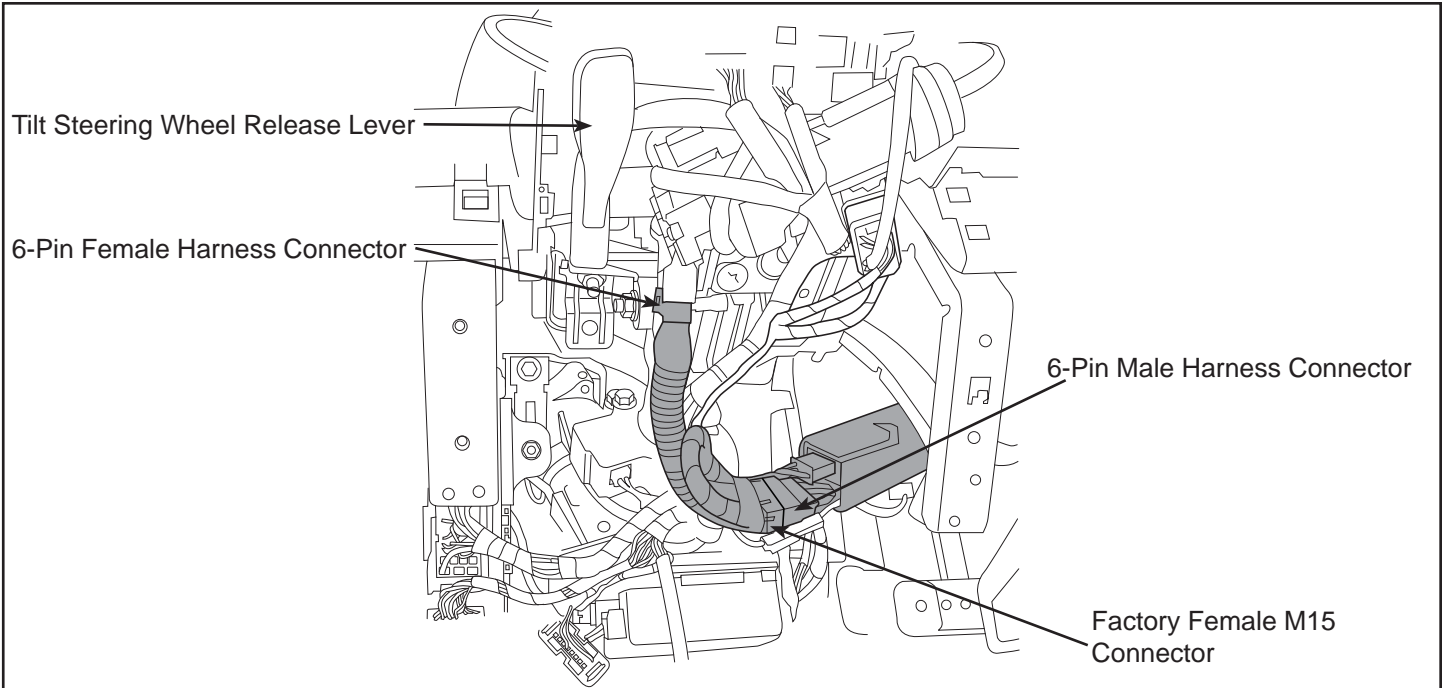
M6 Nut
Torque to 14 Nm (1.4 Kgf.m, 10 lb-ft)

 Ratchet, Extension, 10 mm Socket and Torque Wrench

13

- NOTE**
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).

KIA Genuine Accessories

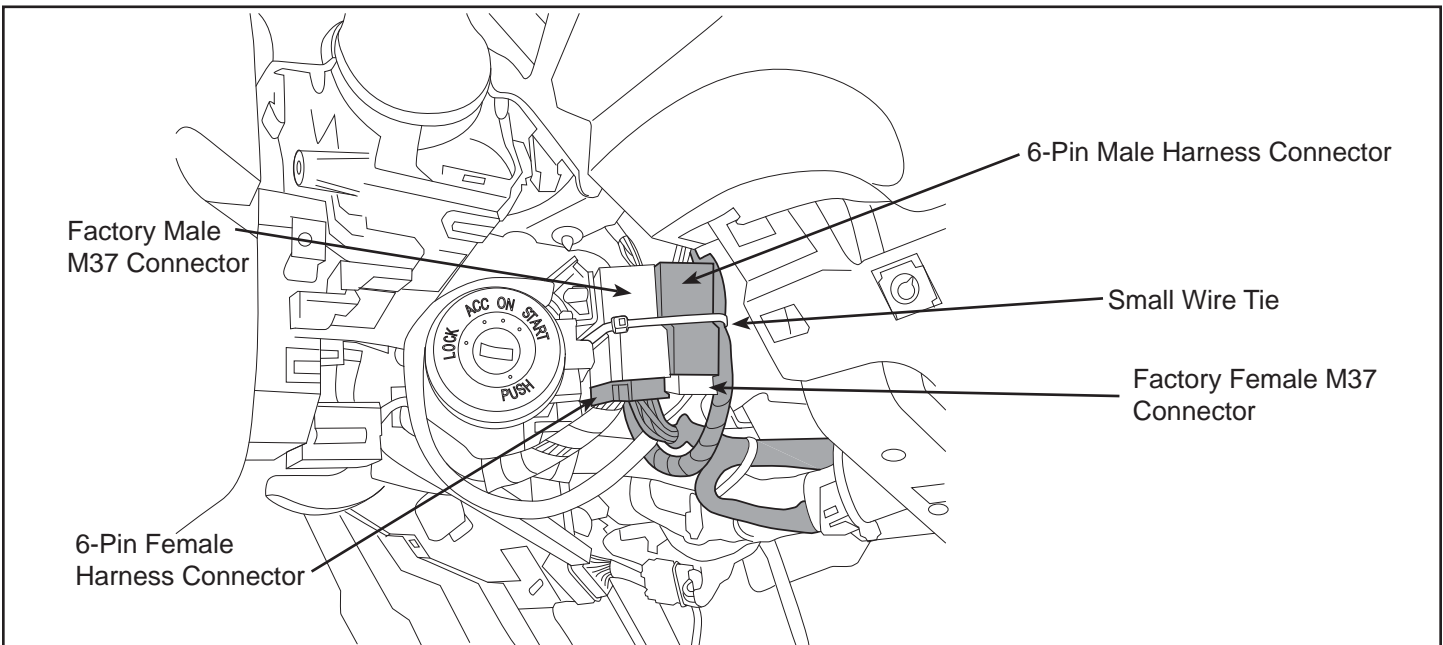


14

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1. Route the remote start harness 6-pin male and female ignition connectors along the factory harness up to the factory M15 ignition switch connector.
 2. Disconnect the factory female 6-pin M15 ignition switch connector and plug in the corresponding remote start harness connectors.



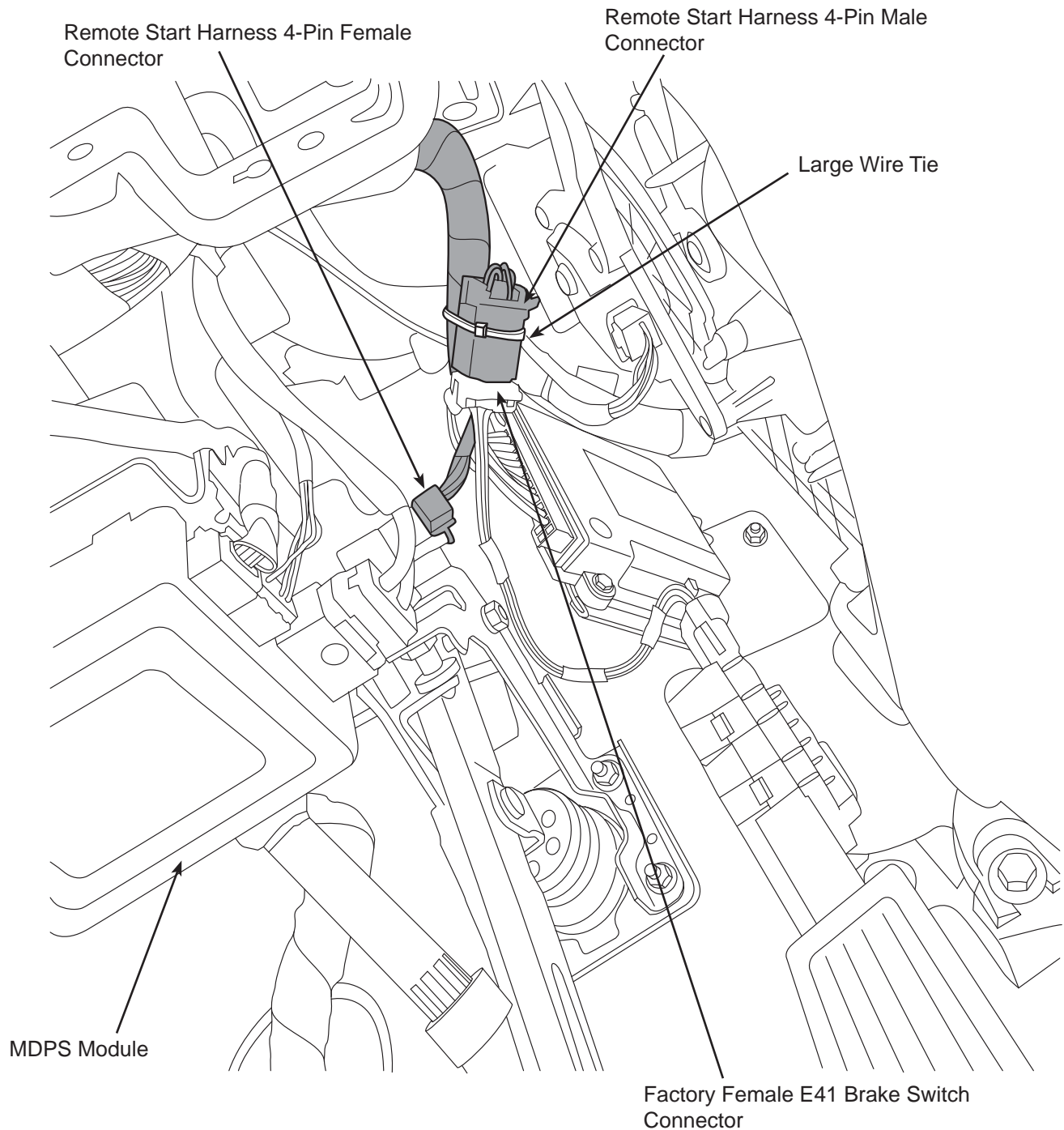
WARNING! Engine Stall Hazard. To prevent stress on the remote start wire harness, ensure the tilt/telescopic steering column is fully extended, if equipped. Ensure all connectors are fully engaged and locked in place. An engine stall could cause serious physical injury or vehicle damage.



Wire Cutter

15

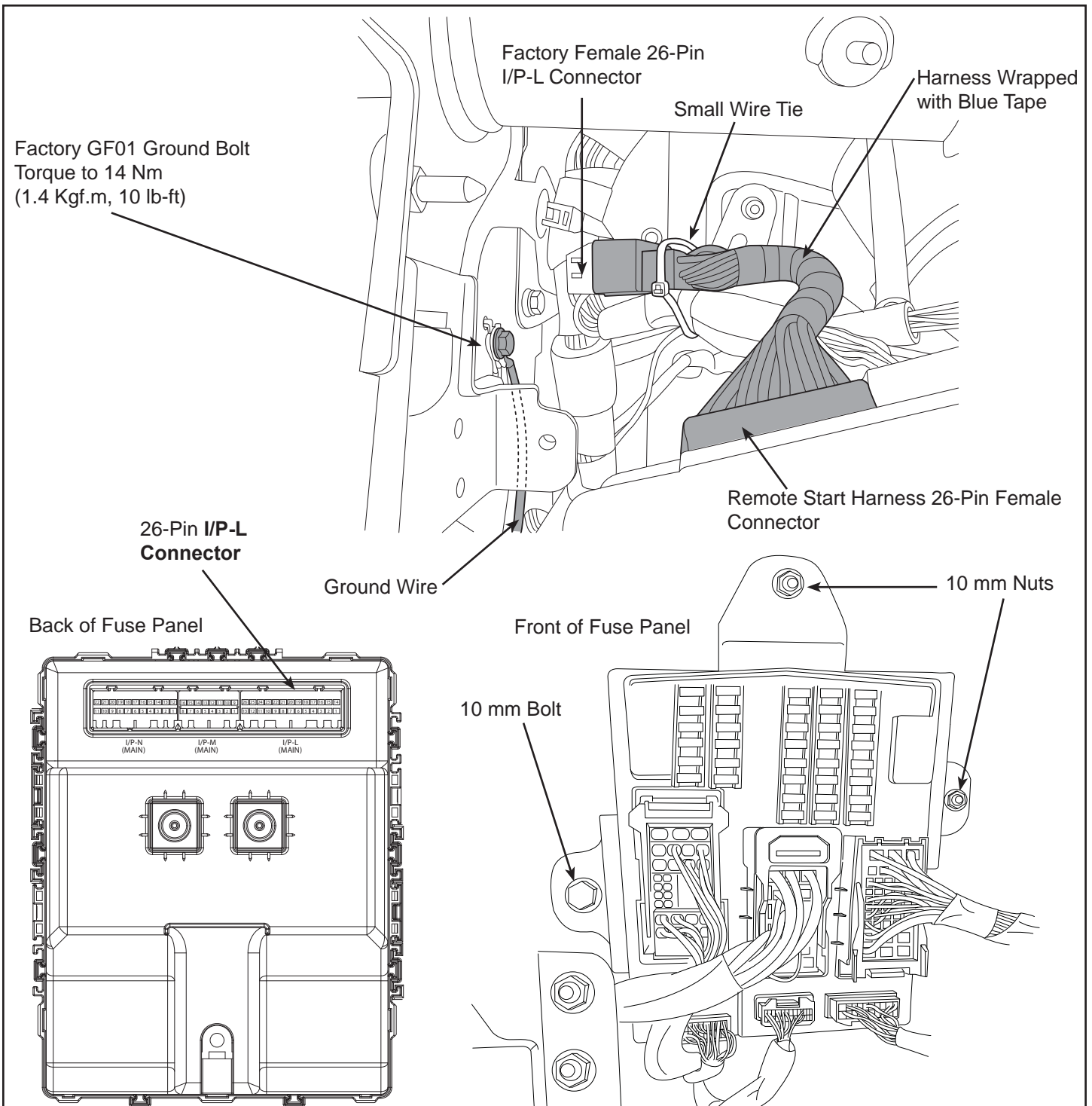
- N
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E**
1. Route the remote start harness 6-pin male and female key-in-sense connectors along the right side of the steering column to the factory M37 key-in-sense connector.
 2. Disconnect the factory female 6-pin M37 key-in-sense connector and plug in the corresponding remote start harness connectors.
 3. Secure the factory female M37 key-in-sense connector and the remote start harness male key-in-sense connectors to the factory male M37 key-in-sense connector with one (1) small wire tie, as shown above. Trim off excess wire tie.



 Wire Cutter

16

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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.
 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.

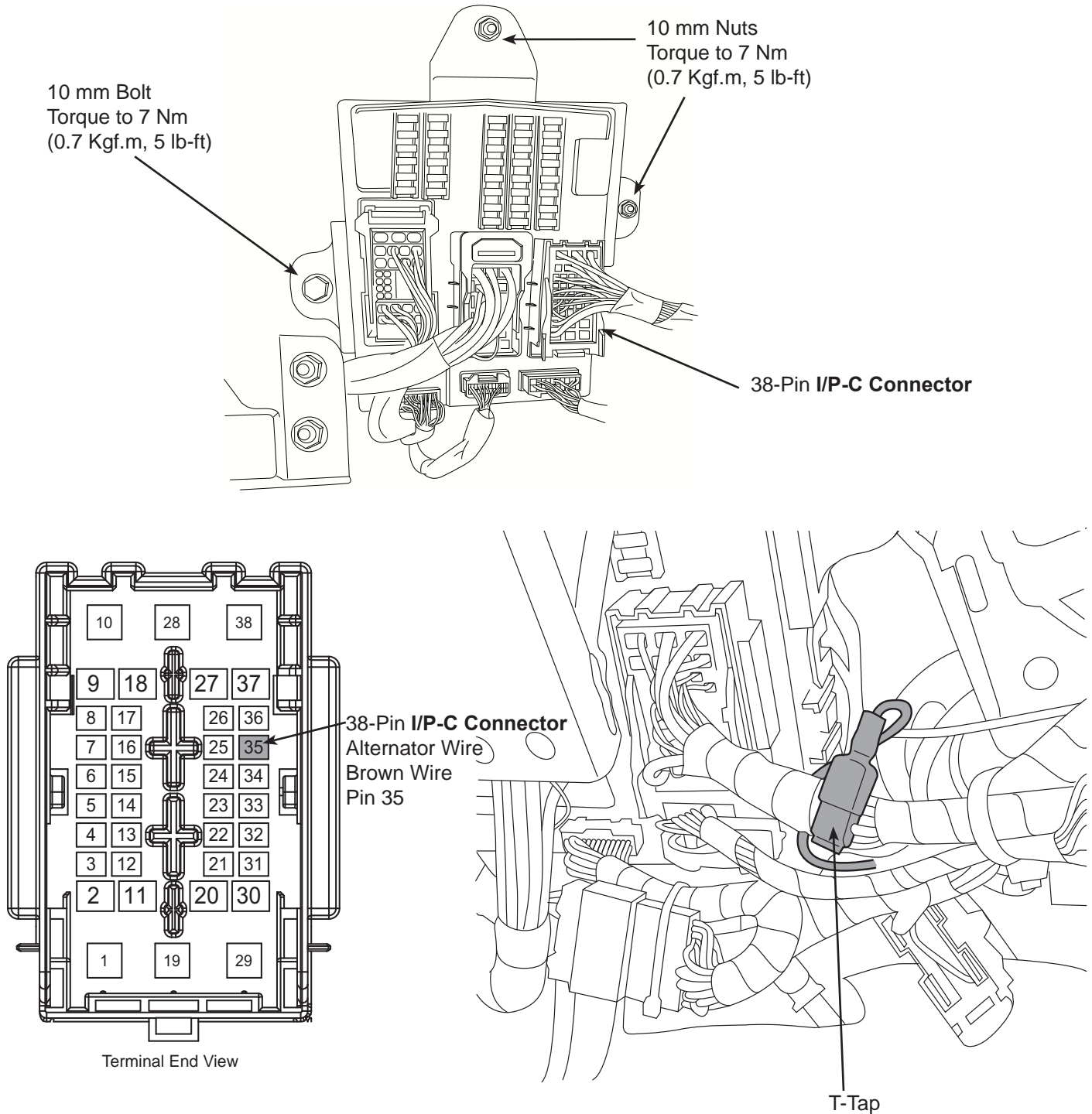



Ratchet, Extension, 10 mm Socket, Torque Wrench and Wire Cutter

- N
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E**
1. Route the Black (Ground) wire and 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 remove the factory GF01 ground bolt, located to the left of the fuse panel.
 4. Position the Black (Ground) wire with ring terminal over the bolt and reinstall.
 5. Torque to 14 Nm (1.4 Kgf.m, 10 lb-ft).
 6. Route the 26-pin male and female remote start harness connectors (**Wrapped with BLUE tape**) to the back of the fuse panel.
 7. 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.
 8. 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.

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



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

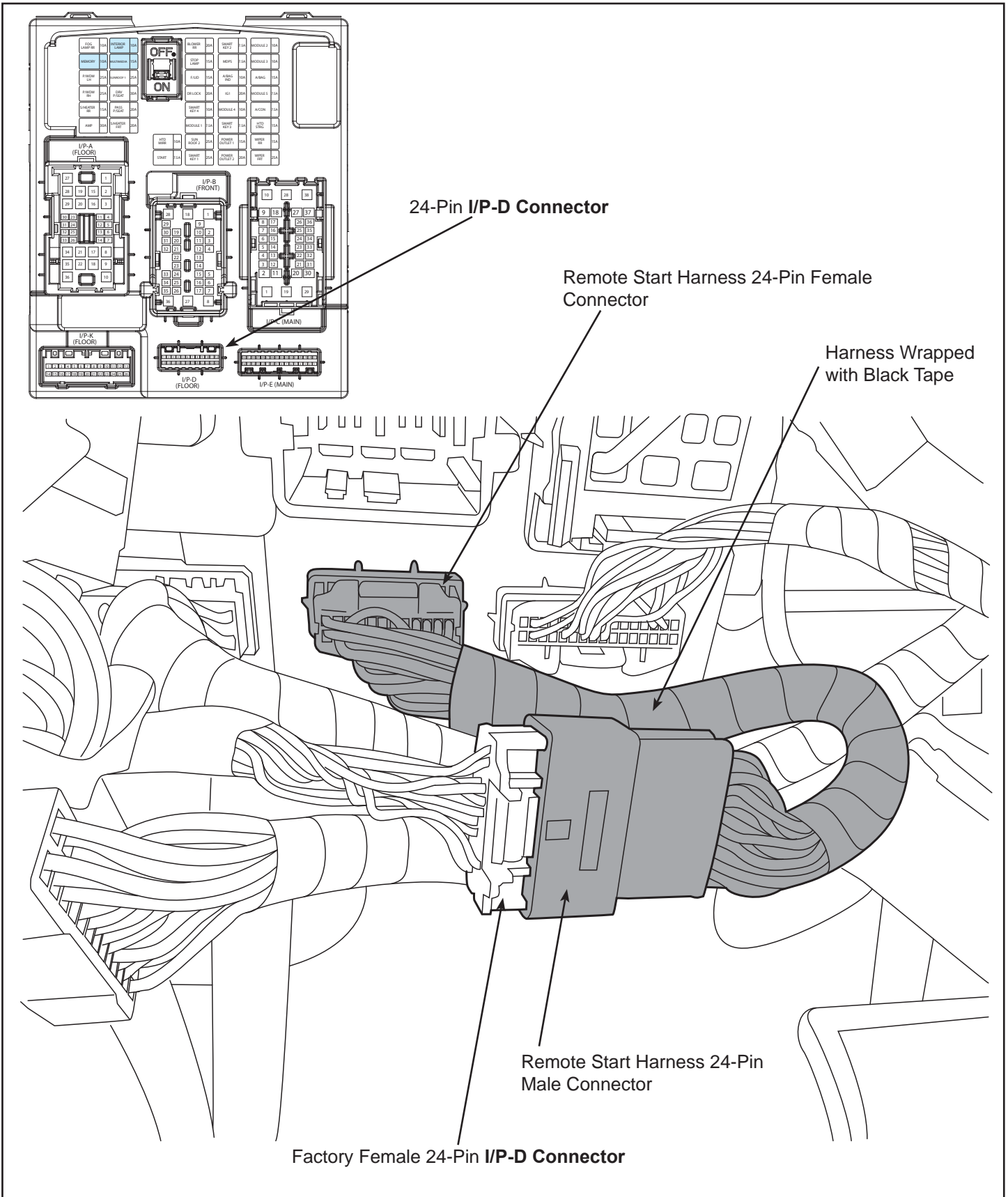
18

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

- O**
- T**
- E**
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 Brown wire in **pin #35** of the 38-pin I/P-C female connector.
 3. Using pliers, crimp one (1) T-Tap on the Brown wire located in **pin #35** of the 38-pin I/P-C female connector.
 4. Connect the Brown (Alternator Input) wire from the remote start harness to the Brown wire (Pin #35 of the 38-Pin I/P-C connector) by engaging the T-Tap. Ensure that the male spade is properly centered in the T-Tap.

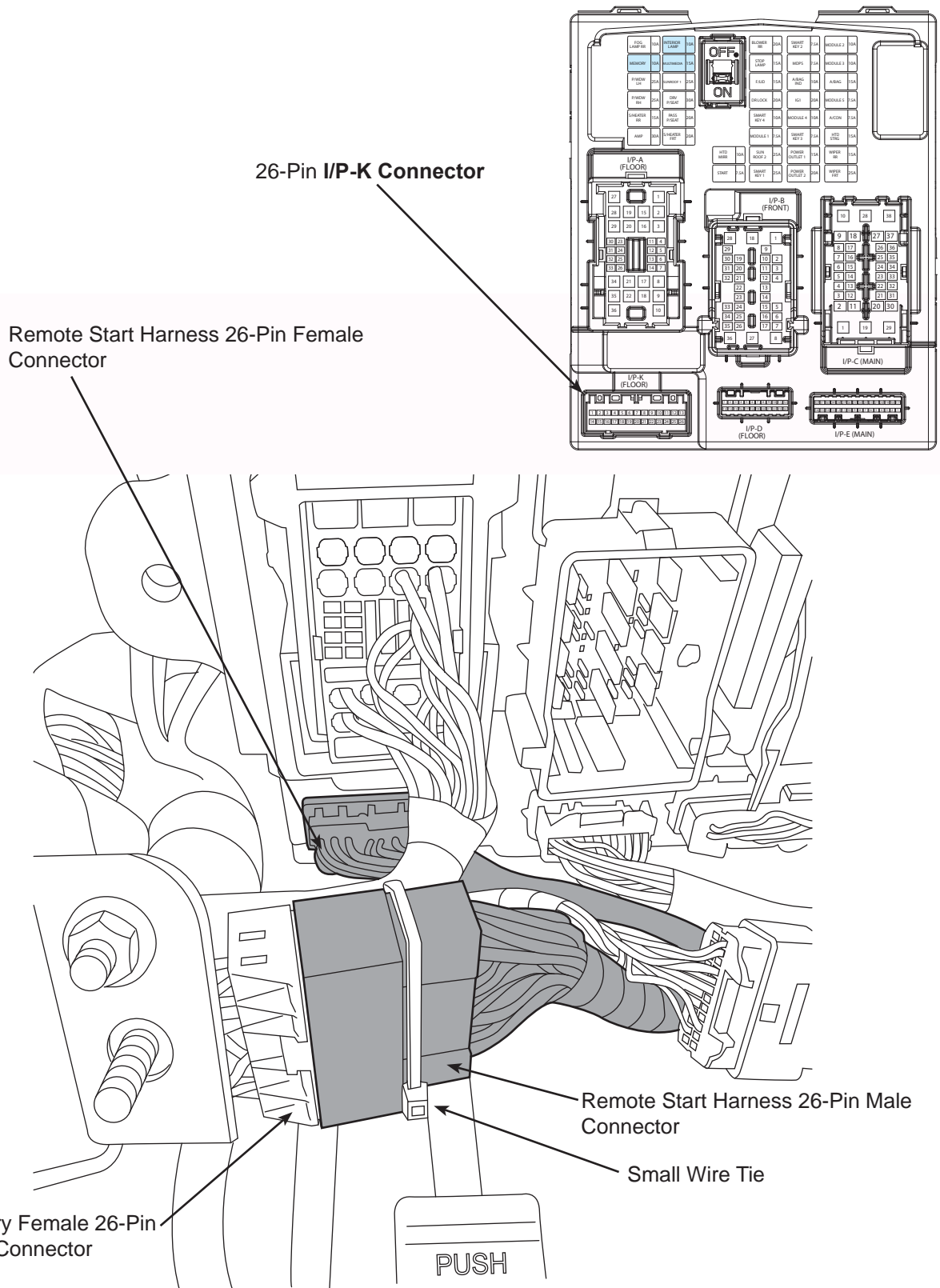


CAUTION! Ensure the correct pin location is identified. There may be several wires of the same/similar color.



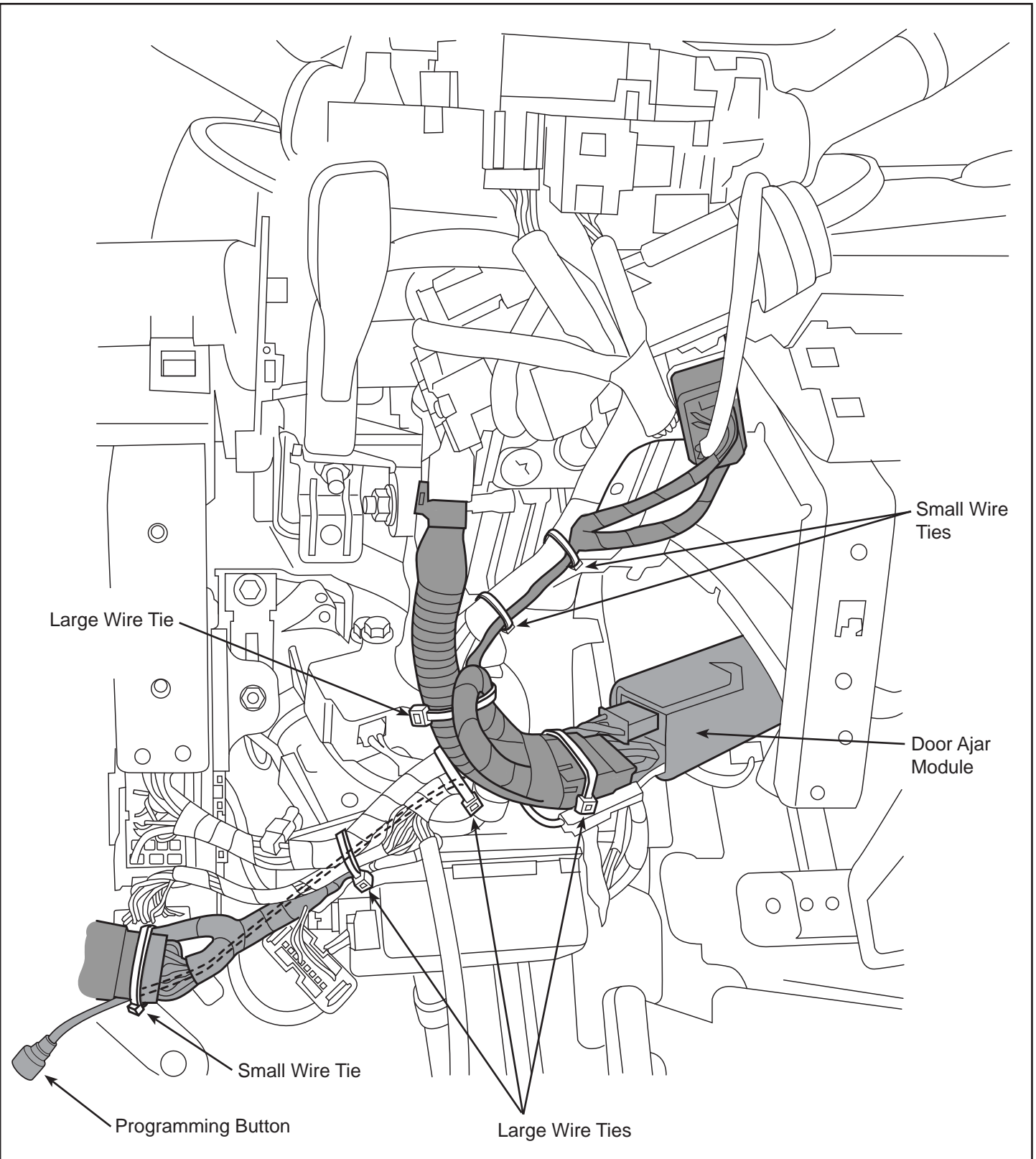
**N
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E**

1. Route the 24-pin male and female remote start harness connectors (**Wrapped with BLACK tape**) along the front of the fuse panel.
2. Locate the 24-pin **I/P-D connector** on the front of the fuse panel. Disconnect the factory female 24-pin I/P-D connector and plug in the corresponding remote start harness connectors, as shown above.



 Wire Cutter

- NOTE**
1. Route the 26-pin male and female remote start harness connectors (**Wrapped with BLACK tape**) along the front of the fuse panel.
 2. Locate the 26-pin **I/P-K connector** on the front of the fuse panel. Disconnect the factory female 26-pin I/P-K connector and plug in the corresponding remote start harness connectors.
 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 Cutter

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E**
1. Verify all connections are secure as per the installation instructions.
 2. Connect the programming button to the corresponding remote start module connector (if disconnected).
 3. Secure the programming button and the remote start harness with three (3) small wire ties and four (4) large wire ties to the factory harness, as shown above. Trim off excess wire ties.



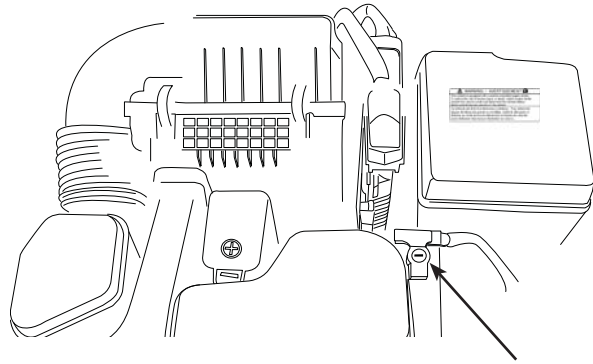
WARNING! Engine Stall Hazard. To prevent stress on the remote start wire harness, ensure the tilt/telescopic steering column is fully extended, if equipped. Ensure all connectors are fully engaged and locked in place. An engine stall could cause serious physical injury or vehicle damage.



Goggles



Rubber
Gloves



Negative
Battery Cable



Ratchet and 10 mm Socket

22

- N
O
T
E**
1. Verify all connections are secure as per the installation instructions.
 2. Turn the ignition key to the ON position.
 3. Reconnect the negative battery cable.
 4. 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.
 5. Turn the ignition key to the LOCK (OFF) position.














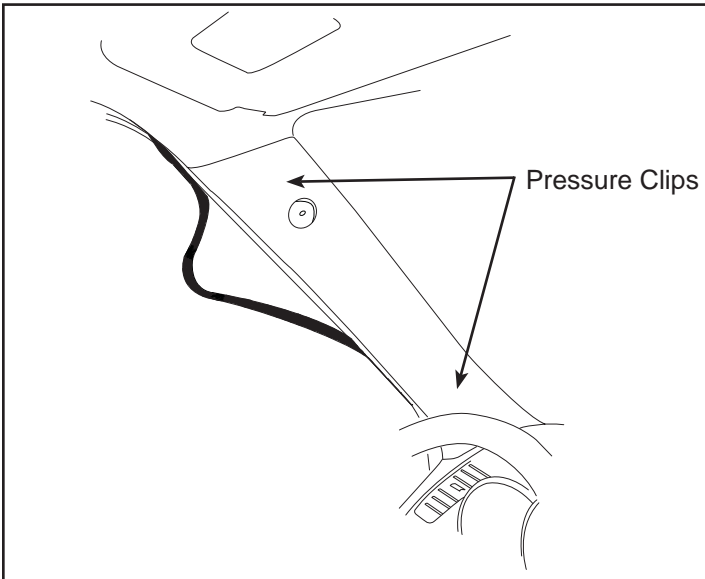
WARNING! Shock Hazard. Do not touch vehicle's negative battery terminal to vehicle's positive battery terminal. Serious physical injury or vehicle damage may occur.

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 23 (Transmitter Programming and Battery Test Procedure).

Items To Be Checked	Results Of The Check
 <p><u>Remote Engine Start</u> - Make sure the key is removed from the ignition switch and the doors, tailgate and engine hood are closed. Activate the remote start by pressing the start button on the transmitter two (2) times within three (3) seconds.</p>	<p>The parking lights will flash one (1) time, the burglar horn will beep one (1) time, the doors will lock, then the engine will crank and start. Once started, the burglar horn will beep one (1) time and the parking lights will come on and stay on signifying the engine is running.</p>
 <p><u>Driver's Door Unlock / Interior Lamp</u> - Press the start button on the transmitter one (1) time to unlock the driver's door.</p>	<p>The parking lights will flash two (2) times, unlock the driver's door only and illuminate the interior light for thirty (30) seconds.</p> <p>NOTES: Interior lamp switch must be set to door position to illuminate.</p> <p>If no door or tailgate is opened within thirty (30) seconds, the interior lights will turn off and the doors will auto lock.</p>
 <p><u>Brake Pedal Safety</u> - Enter the vehicle and press and release the brake pedal.</p>	<p>The engine/remote start will turn off.</p>
 <p><u>Key-In-Sense</u> - Insert the ignition key into the ignition switch but keep it in the OFF position. Activate the remote engine start using the transmitter.</p>	<p>The parking lights will flash one (1) time and the ignition will turn on as if it is going to start. The burglar horn will beep two (2) times and the remote engine start will not attempt to start the vehicle since it detects the key in the ignition. In addition, the driver's door will unlock and the vehicle's interior light will illuminate.</p> <p>NOTE: Interior lamp switch must be set to door position to illuminate.</p>
 <p><u>Hood Safety Switch</u> - Remove the key from the ignition and activate the remote engine start. After the vehicle has started, 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>Door Unlock</u> - Close the engine hood and all doors and activate the remote engine start. Press the start button on the transmitter two (2) times within five (5) seconds.</p>	<p>The parking lights will flash two (2) times and unlock all doors.</p> <p>NOTE: If no door or tailgate is opened within thirty (30) seconds, the interior lights will turn off and the doors will auto lock.</p>
 <p><u>Tailgate Safety Switch</u> - Open the tailgate using the release inside the vehicle.</p>	<p>The engine/remote start will turn off immediately.</p>
 <p><u>Car Find Feature</u> - Close the tailgate and press the red car find / panic button on the transmitter. Repeat this process two (2) times.</p>	<p>The parking lights will flash and the burglar horn will beep five (5) times. Subsequent presses within five (5) seconds of the first press will beep the burglar horn slightly louder.</p>
 <p><u>Panic Feature</u> - Press and hold the red car find / panic button on the transmitter for three (3) seconds to activate. Press the red car find / panic button a second time to deactivate.</p>	<p>The parking lights will flash and the burglar horn will beep for up to thirty (30) seconds.</p>
 <p><u>Quick Stop Feature</u> - Enter the vehicle, and close all doors. Start the vehicle with the ignition key. With the vehicle in park and foot off the brake pedal, press the start button on the transmitter one (1) time. Remove the key from the ignition and turn on the head lights using the switch.</p>	<p>Verify that the parking lights turn on and that the vehicle remains running. The driver's door only will unlock (if previously locked).</p> <p>The head lights will remain on for the entire fifteen (15) minute run time.</p>
 <p><u>Remote Engine Stop</u> - Press and hold the start button on the transmitter for three (3) seconds.</p>	<p>The engine/remote start will turn off and the head lights will remain on for approximately fifteen (15) seconds. Ensure the head lights turn off after fifteen (15) seconds.</p>



Pressure Clips

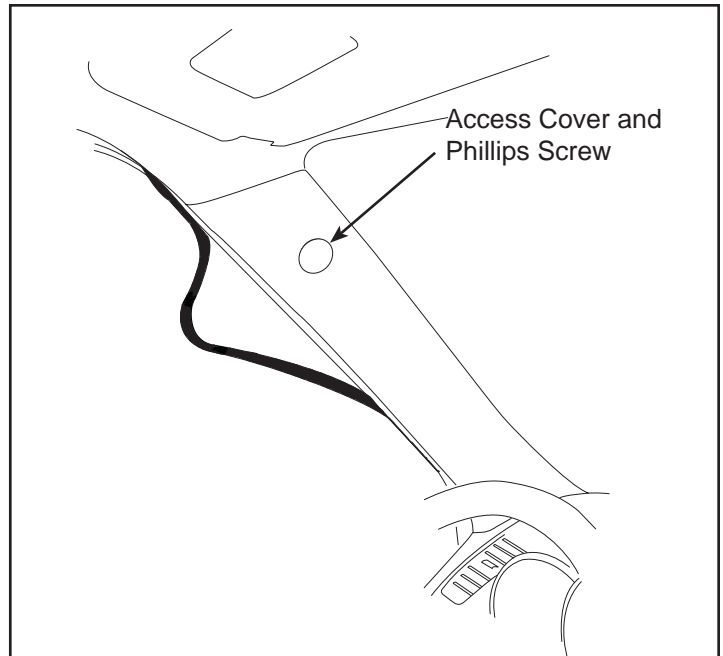


23

- 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.



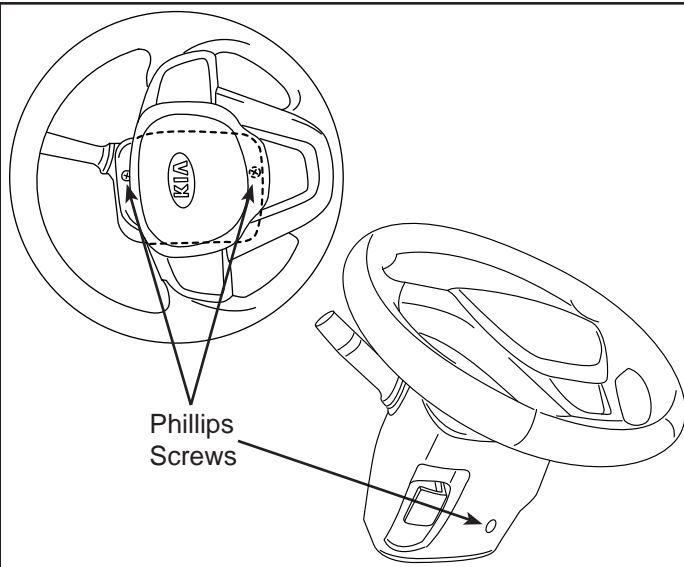
Access Cover and Phillips Screw



#2 Phillips Screwdriver

24

- 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



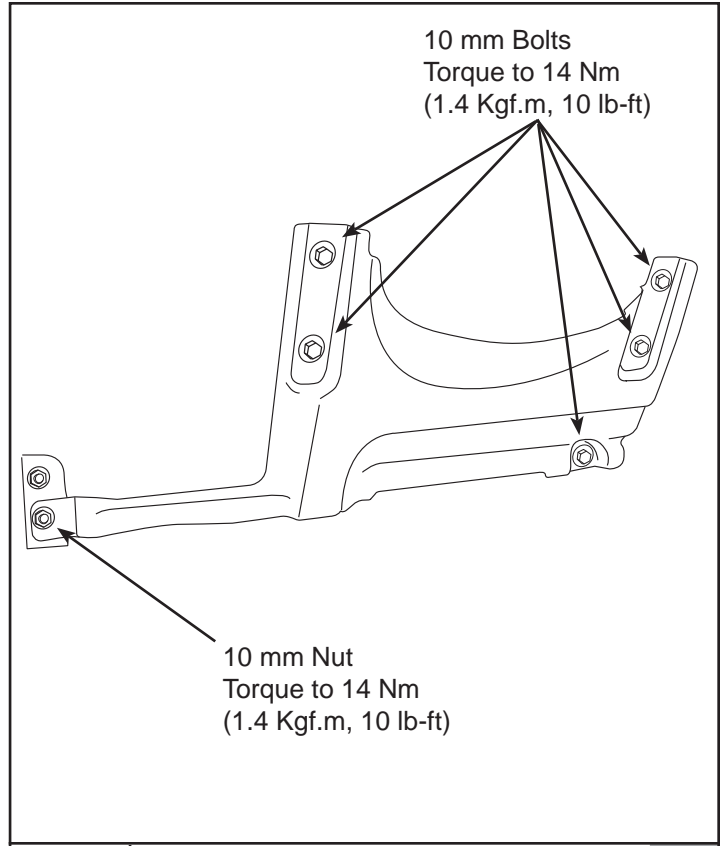
#2 Phillips Screwdriver

25

- 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.**
- **NOTE:** To access screw mounting locations, insert key and turn to the ACC position, in order to prevent the steering wheel from locking.



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



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

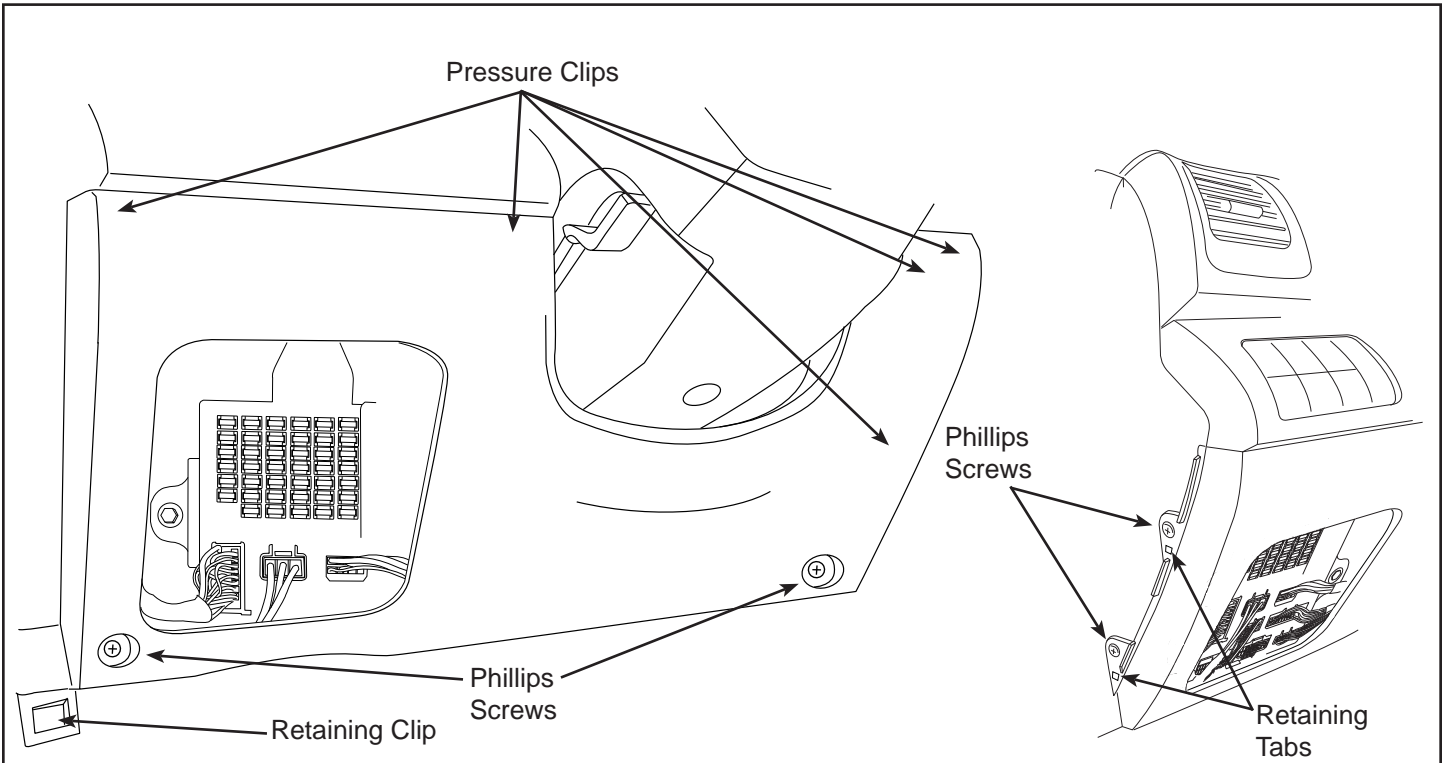
10 mm Nut
Torque to 14 Nm
(1.4 Kgf.m, 10 lb-ft)



Ratchet, Extension, 10 mm Socket and Torque Wrench

26


- 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).

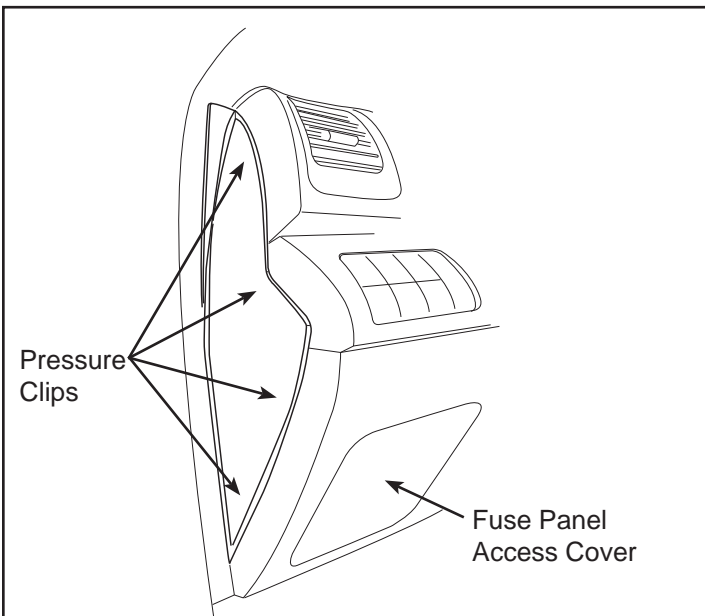


 #2 Phillips Screwdriver

27

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

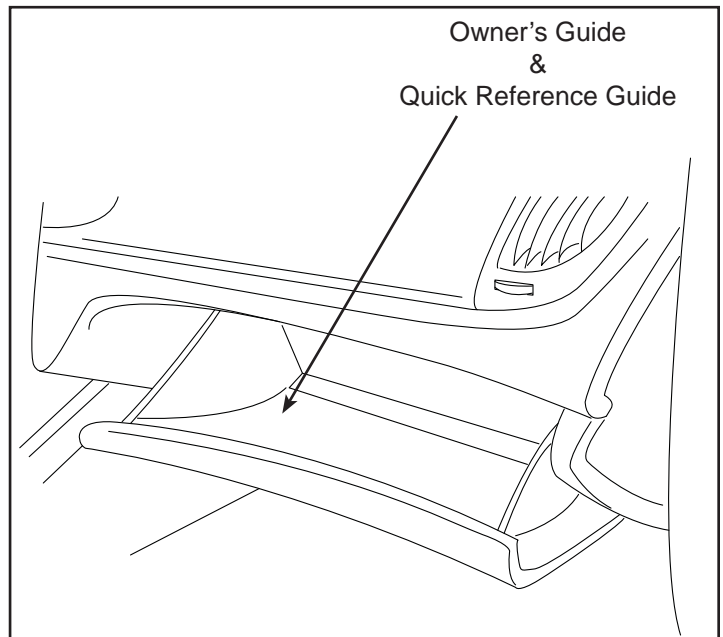
 **WARNING! Engine Stall Hazard.** To prevent stress on the remote start wire harness, ensure the tilt/telescopic steering column is fully extended, if equipped. Ensure all connectors are fully engaged and locked in place. An engine stall could cause serious physical injury or vehicle damage.





28

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



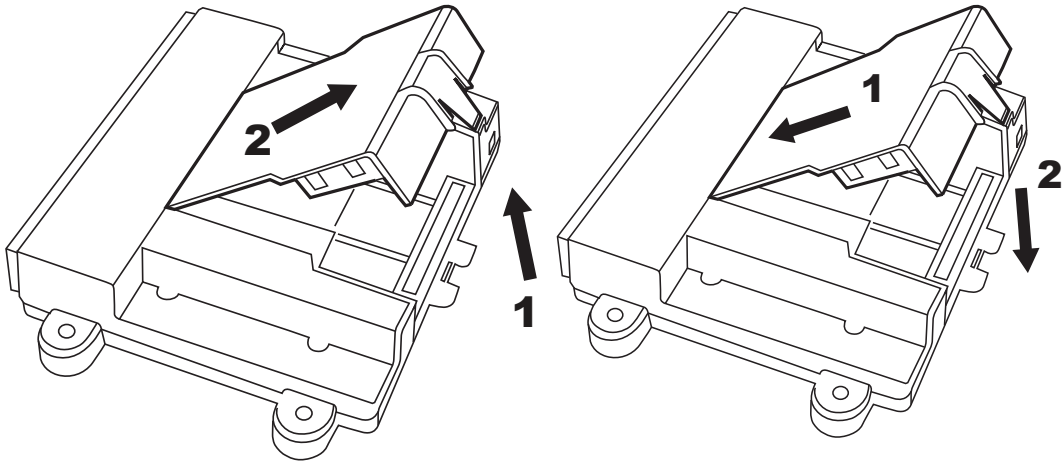


29

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

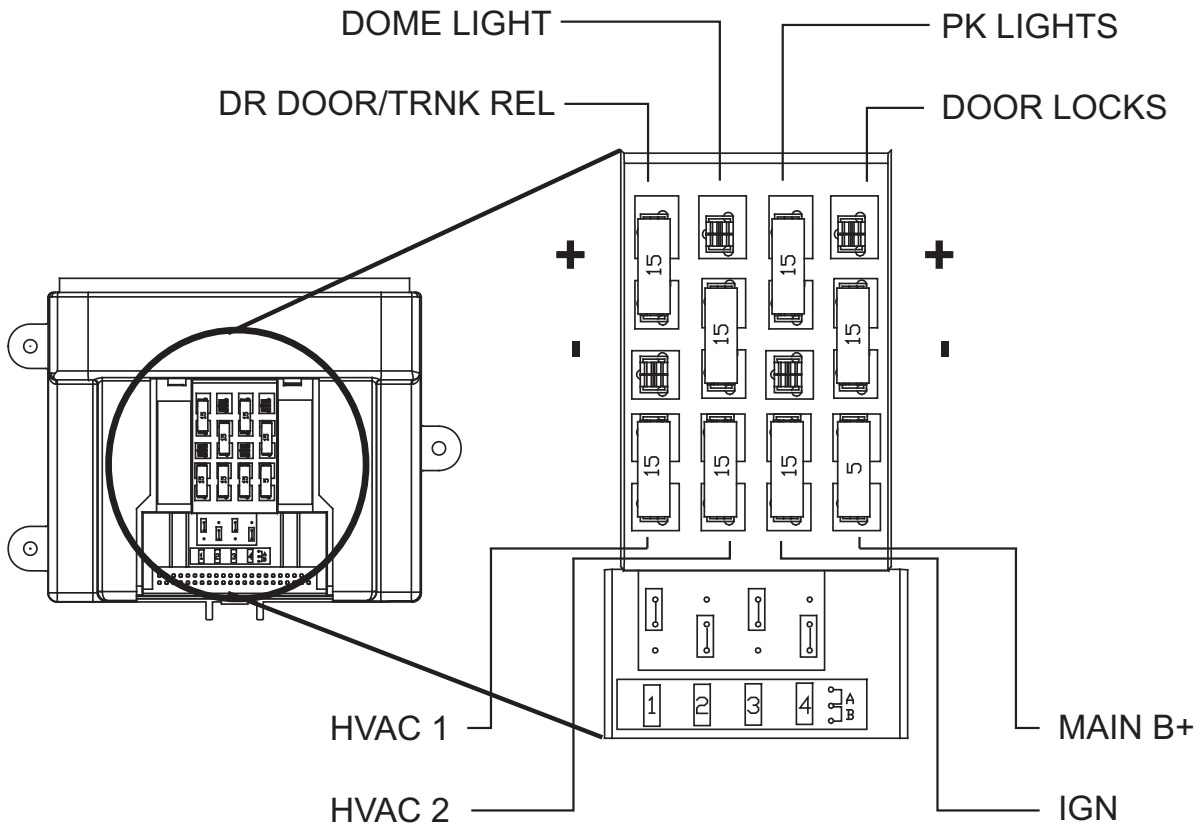
KIA Genuine Accessories Troubleshooting

Accessing the DNA Card










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








Correct Fuse and Jumper Positions



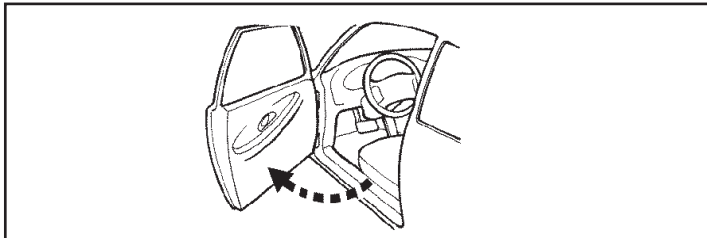
KIA Genuine Accessories Troubleshooting

Issue / Concern	Items To Be Checked	
 Vehicle will not automatically lock all doors after remote start activation.	Instruction Ref.	*Verify that the 6-pin male and female Key-In-Sense connectors are connected properly (Step 15). *Verify that the 26-pin male and female I/P-K connectors are connected properly (Step 20). *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 proper DNA installation into module.
	Steps 15 & 20	
 Vehicle will not unlock the driver's door using the transmitter during the remote start mode.	Instruction Ref.	*Verify that the 26-pin male and female I/P-L connectors are connected properly (Step 17).
	Step 17	
 Vehicle's dome lights do not turn on during the remote start mode.	Instruction Ref.	*Verify that the 26-pin male and female I/P-L connectors are connected properly (Step 17). *Verify interior lamp switch is set to door position. *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 proper DNA installation into module.
	Step 17	
 Vehicle will not unlock all doors using the transmitter during the remote start mode.	Instruction Ref.	*Verify that the 26-pin male and female I/P-K connectors are connected properly (Step 20). *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 proper DNA installation into module.
	Step 20	
 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 19). *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 19	
 Vehicle's burglar horn does not honk 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 17). *Verify proper DNA installation into module.
	Step 17	
 Poor operating range.	Instruction Ref.	*Verify that the antenna is mounted in the correct location (Steps 9 & 10). *Verify that the antenna cable connector is plugged into the back of the remote start module (Step 12) and that the antenna cable is NOT shorted along it's entire path. *Verify that the remote start harness ground wire was connected properly (Step 17). *Refer to Page 23 for Transmitter Programming an Battery Test Procedure.
	Steps 9, 10, 12 & 17	

KIA Genuine Accessories Troubleshooting

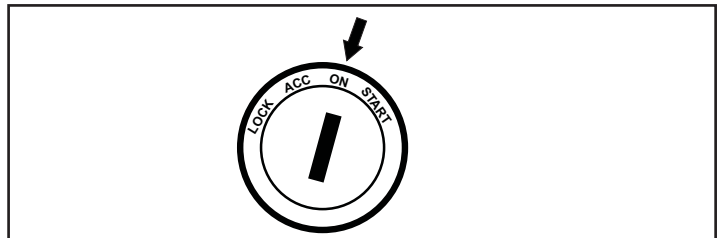
Issue / Concern	Items To Be Checked	
 Ignition turns on, burglar horn beeps two (2) times and vehicle does not start. Key-In-Sense activated.	Instruction Ref.	*Remove ignition key from ignition cylinder.
	Step 15	*Verify that the 6-pin male and female Key-In-Sense connectors are connected properly (Step 15).
 Burglar horn beeps two (2) times and vehicle does not start. Safety input activated.	Instruction Ref.	*Release the brake pedal and close the hood.
	Steps 16 & 20	*Verify that the 4-pin male and female brake switch connectors at the brake switch are connected properly (Step 16). *Verify that the 26-pin male and female I/P-K connectors are connected properly (Step 20).
 Burglar horn beeps three (3) times and vehicle does not start. Valet mode engaged.	Instruction Ref.	*Verify that the Valet Mode is not engaged - Refer to the Remote Start System Owner's Guide.
	Page 6 of Owner's Guide	
 Burglar horn beeps five (5) times and vehicle does not start. Safety Input activated.	Instruction Ref.	*Close the vehicle's tailgate.
	Step 20	*Verify that the 26-pin male and female I/P-K connectors are connected properly (Step 20).
 Headlights do not turn off thirty (30) seconds after deactivating the remote start using the transmitter (Headlight switch must be in the on position).	Instruction Ref.	*Verify that the 26-pin male and female I/P-K connectors are connected properly (Step 20).
	Step 20	
 Engine starts, but does not remain running during remote start operation.	Instruction Ref.	*Verify that the remote start harness wire (Alternator) was connected properly to the correct vehicle wire (Step 18).
	Step 18	Note: Ensure that the Alternator T-Tap and spade terminal are properly connected. Refer to Page 3 for T-Tap Installation Procedure.
 Vehicle's air conditioning / heater blower fan does not operate during the remote start mode.	Instruction Ref.	*Verify that the 6-pin male and female ignition switch connectors at the ignition switch are connected properly (Step 14).
	Step 14	*Verify the 5-pin relay is engaged properly to the relay socket on the remote start harness (Wrapped with large foam tape). *Verify that the fuses located under the DNA case top labeled "HVAC1" & "HVAC2" are good and installed properly per the Fuse and Jumper diagram in Troubleshooting. *Verify proper DNA installation into module. *Verify that the vehicle's HVAC blower fan is set to the ON position.

KIA Genuine Accessories Transmitter Programming Procedure



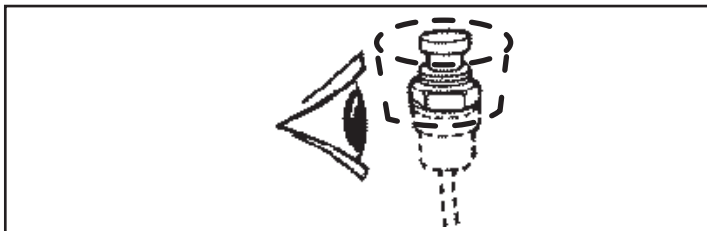
1

NOTE 1. Open the driver's door.



2

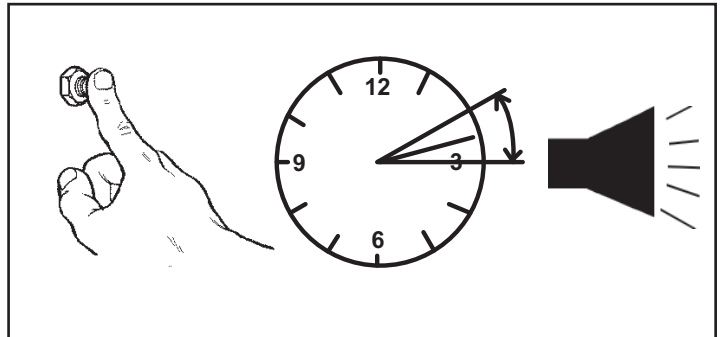
NOTE 1. Turn the vehicle's ignition to the "ON" position, do not start the engine.



3

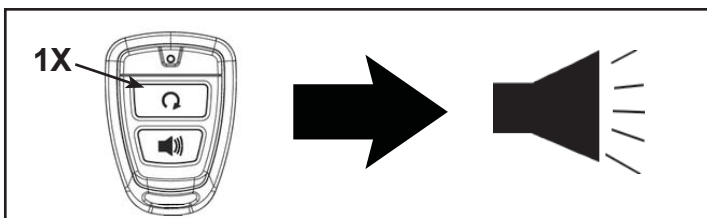
NOTE 1. Locate the programming button.

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



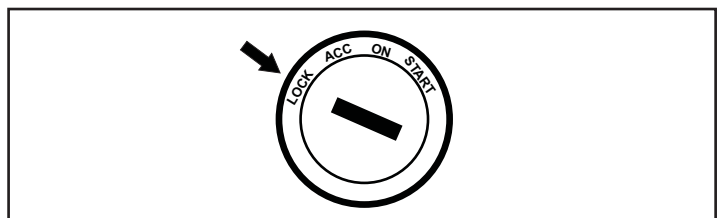
4

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. Turn OFF the vehicle's ignition.

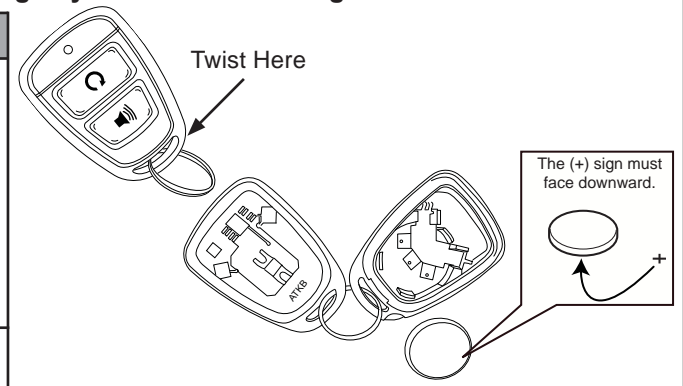
Transmitter Battery Test Procedure

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	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL
7	IGN-5	12 YL
8	IGN-4	12 YL
9	IGN-3B	12 GR
10	IGN-3A	12 GR
11	IGN-2B	12 GR
12	IGN-2A	12 GR
13	IGN-1B	12 GR
14	IGN-1A	12 GR
15	IGN-5B	12 GR
16	IGN-5A	12 GR
17	IGN-4B	12 GR
18	IGN-4A	12 GR
19	IGN-3B	12 GR
20	IGN-3A	12 GR
21	IGN-2B	12 GR
22	IGN-2A	12 GR
23	IGN-1B	12 GR
24	IGN-1A	12 GR

TO RES MODULE

10-PIN CAR START HARNESS

CAV/CIRCUIT NAME	CIRCUIT DESCRIPTION	GA COLOR
1	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL
7	IGN-5	12 YL
8	IGN-4	12 GR
9	IGN-3B	12 GR
10	IGN-3A	12 GR

MALE 6-PIN KEY-IN-SENSE CONNECTOR

CAV/CIRCUIT NAME	CIRCUIT DESCRIPTION	GA COLOR
1	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL

TO RES MODULE

TO RES MODULE

10-PIN CAR START HARNESS

CAV/CIRCUIT NAME	CIRCUIT DESCRIPTION	GA COLOR
1	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL
7	IGN-5	12 YL
8	IGN-4	12 GR
9	IGN-3B	12 GR
10	IGN-3A	12 GR

MALE 6-PIN KEY-IN-SENSE CONNECTOR

CAV/CIRCUIT NAME	CIRCUIT DESCRIPTION	GA COLOR
1	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL

TO RES MODULE

TO RES MODULE

10-PIN CAR START HARNESS

CAV/CIRCUIT NAME	CIRCUIT DESCRIPTION	GA COLOR
1	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL
7	IGN-5	12 YL
8	IGN-4	12 GR
9	IGN-3B	12 GR
10	IGN-3A	12 GR

MALE 6-PIN KEY-IN-SENSE CONNECTOR

CAV/CIRCUIT NAME	CIRCUIT DESCRIPTION	GA COLOR
1	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL

16-PIN EXTENDED FUNCTION HARNESS

CAV/CIRCUIT NAME	CIRCUIT DESCRIPTION	GA COLOR
1	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL
7	IGN-5	12 YL
8	IGN-4	12 GR
9	IGN-3B	12 GR
10	IGN-3A	12 GR
11	IGN-2B	12 GR
12	IGN-2A	12 GR
13	IGN-1B	12 GR
14	IGN-1A	12 GR
15	IGN-5B	12 GR
16	IGN-5A	12 GR

TO RES MODULE

10-PIN CAR START HARNESS

CAV/CIRCUIT NAME	CIRCUIT DESCRIPTION	GA COLOR
1	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL
7	IGN-5	12 YL
8	IGN-4	12 GR
9	IGN-3B	12 GR
10	IGN-3A	12 GR

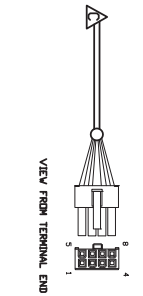
MALE 6-PIN KEY-IN-SENSE CONNECTOR - VEHICLE HARNESS SIDE

CAV/CIRCUIT NAME	CIRCUIT DESCRIPTION	GA COLOR
1	IGN-5A	16 WT
2	HVAC 2 FEED	16 RD
3	IGN-1	16 BK/RD
4	IGN-2	16 YL
5	HVAC 1 OUTPUT	16 BK/RD
6	IGN-6	12 YL

NOTE
1. = CONTINUED ON NEXT DRAWING

2014~ KIA SORENTO REMOTE START WIRING DIAGRAM

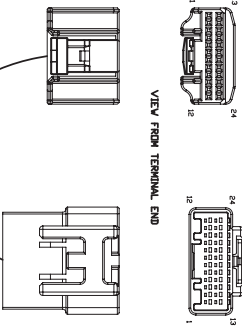
TO RES DOOR AJAR MODULE



CAV. CIRCUIT	GA. COLOR
1/P-K-6	20 R/BK
2/P-K-7	20 P/BK
3/P-K-8	20 BL/BK
4/P-K-9	20 GR/BK
5	---
6	---
7	---
8	DR A/B
20	YL

TO I/P-D CONNECTOR

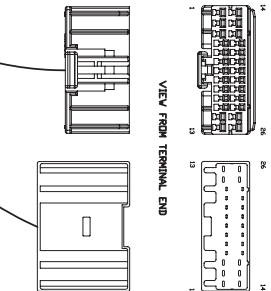
CAV. NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	EXTRA CIRCUIT	20 GN
2	EXTRA CIRCUIT	20 GN
3	EXTRA CIRCUIT	20 GN
4	EXTRA CIRCUIT	20 GN
5	EXTRA CIRCUIT	20 GN
6	EXTRA CIRCUIT	20 GN
7	EXTRA CIRCUIT	20 GN
8	EXTRA CIRCUIT	20 GN
9	EXTRA CIRCUIT	20 GN
10	EXTRA CIRCUIT	20 GN
11	EXTRA CIRCUIT	20 GN
12	EXTRA CIRCUIT	20 GN
13	EXTRA CIRCUIT	20 GN
14	EXTRA CIRCUIT	20 GN
15	EXTRA CIRCUIT	20 GN
16	EXTRA CIRCUIT	20 GN
17	EXTRA CIRCUIT	20 GN
18	EXTRA CIRCUIT	20 GN
19	EXTRA CIRCUIT	20 GN
20	EXTRA CIRCUIT	20 GN
21	EXTRA CIRCUIT	20 GN
22	EXTRA CIRCUIT	20 GN
23	EXTRA CIRCUIT	20 GN
24	EXTRA CIRCUIT	20 GN



CAV. NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	EXTRA CIRCUIT	20 GN
2	EXTRA CIRCUIT	20 GN
3	EXTRA CIRCUIT	20 GN
4	EXTRA CIRCUIT	20 GN
5	EXTRA CIRCUIT	20 GN
6	EXTRA CIRCUIT	20 GN
7	EXTRA CIRCUIT	20 GN
8	EXTRA CIRCUIT	20 GN
9	EXTRA CIRCUIT	20 GN
10	EXTRA CIRCUIT	20 GN
11	EXTRA CIRCUIT	20 GN
12	EXTRA CIRCUIT	20 GN
13	EXTRA CIRCUIT	20 GN
14	EXTRA CIRCUIT	20 GN
15	EXTRA CIRCUIT	20 GN
16	EXTRA CIRCUIT	20 GN
17	EXTRA CIRCUIT	20 GN
18	EXTRA CIRCUIT	20 GN
19	EXTRA CIRCUIT	20 GN
20	EXTRA CIRCUIT	20 GN
21	EXTRA CIRCUIT	20 GN
22	EXTRA CIRCUIT	20 GN
23	EXTRA CIRCUIT	20 GN
24	EXTRA CIRCUIT	20 GN

TO I/P-K CONNECTOR

CAV. NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	EXTRA CIRCUIT	20 GN
2	EXTRA CIRCUIT	20 GN
3	EXTRA CIRCUIT	20 GN
4	EXTRA CIRCUIT	20 GN
5	EXTRA CIRCUIT	20 GN
6	EXTRA CIRCUIT	20 GN
7	EXTRA CIRCUIT	20 GN
8	EXTRA CIRCUIT	20 GN
9	EXTRA CIRCUIT	20 GN
10	EXTRA CIRCUIT	20 GN
11	EXTRA CIRCUIT	20 GN
12	EXTRA CIRCUIT	20 GN
13	EXTRA CIRCUIT	20 GN
14	EXTRA CIRCUIT	20 GN
15	EXTRA CIRCUIT	20 GN
16	EXTRA CIRCUIT	20 GN
17	EXTRA CIRCUIT	20 GN
18	EXTRA CIRCUIT	20 GN
19	EXTRA CIRCUIT	20 GN
20	EXTRA CIRCUIT	20 GN
21	EXTRA CIRCUIT	20 GN
22	EXTRA CIRCUIT	20 GN
23	EXTRA CIRCUIT	20 GN
24	EXTRA CIRCUIT	20 GN



CAV. NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	EXTRA CIRCUIT	20 GN
2	EXTRA CIRCUIT	20 GN
3	EXTRA CIRCUIT	20 GN
4	EXTRA CIRCUIT	20 GN
5	EXTRA CIRCUIT	20 GN
6	EXTRA CIRCUIT	20 GN
7	EXTRA CIRCUIT	20 GN
8	EXTRA CIRCUIT	20 GN
9	EXTRA CIRCUIT	20 GN
10	EXTRA CIRCUIT	20 GN
11	EXTRA CIRCUIT	20 GN
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13	EXTRA CIRCUIT	20 GN
14	EXTRA CIRCUIT	20 GN
15	EXTRA CIRCUIT	20 GN
16	EXTRA CIRCUIT	20 GN
17	EXTRA CIRCUIT	20 GN
18	EXTRA CIRCUIT	20 GN
19	EXTRA CIRCUIT	20 GN
20	EXTRA CIRCUIT	20 GN
21	EXTRA CIRCUIT	20 GN
22	EXTRA CIRCUIT	20 GN
23	EXTRA CIRCUIT	20 GN
24	EXTRA CIRCUIT	20 GN

TO I/P-L CONNECTOR

CAV. NAME	CIRCUIT DESCRIPTION	GA. COLOR
1	EXTRA CIRCUIT	20 GN
2	EXTRA CIRCUIT	20 GN
3	EXTRA CIRCUIT	20 GN
4	EXTRA CIRCUIT	20 GN
5	EXTRA CIRCUIT	20 GN
6	EXTRA CIRCUIT	20 GN
7	EXTRA CIRCUIT	20 GN
8	EXTRA CIRCUIT	20 GN
9	EXTRA CIRCUIT	20 GN
10	EXTRA CIRCUIT	20 GN
11	EXTRA CIRCUIT	20 GN
12	EXTRA CIRCUIT	20 GN
13	EXTRA CIRCUIT	20 GN
14	EXTRA CIRCUIT	20 GN
15	EXTRA CIRCUIT	20 GN
16	EXTRA CIRCUIT	20 GN
17	EXTRA CIRCUIT	20 GN
18	EXTRA CIRCUIT	20 GN
19	EXTRA CIRCUIT	20 GN
20	EXTRA CIRCUIT	20 GN
21	EXTRA CIRCUIT	20 GN
22	EXTRA CIRCUIT	20 GN
23	EXTRA CIRCUIT	20 GN
24	EXTRA CIRCUIT	20 GN

TO I/P-C CONNECTOR ALTERNATOR LIGHT PIN #35, BN

CAV. CIRNAME	CIR. DESCRIPTION	GA. COLOR
1	BRK-1A	20 BL/BK
2	BRK-2	20 GN/BK
3	BRK-3	20 GN/BK
4	BRK-4	20 BL/BK

TO E41 CONNECTOR

