

KIA Genuine Accessories



Vehicle Model	OPTIMA	Accessory	Remote Engine Start - Push Start
Model Year	2014~	Difficulty	(B)
Part No.	4UF60 AQ700		












- Accessory Installation

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



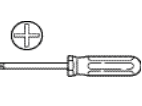
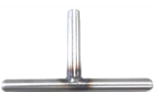
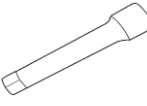


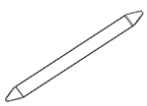


(A) Customer (B) Dealer Technician (C) Master Technician

Ensure vehicle is equipped with automatic transmission, power door locks and power windows. If vehicle is not equipped with these options, do not proceed. Ensure vehicle has SMART KEY (PUSH BUTTON IGNITION SYSTEM).

Instructional 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, safety glasses, 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  Safety Glasses
 Denotes cautions to be taken to avoid vehicle and component damage.	 Denotes instructional steps necessary to complete the process.	 Gloves  Hearing Protection

Basic Required Hand Tools

 Ratchet	 10 mm Socket	 Phillips Screwdriver
 Specialty Tool or 8 mm Socket	 Extension	 Torque Wrench
 Wire Cutter	 Trim Removal Tool	
 Clean Cloth	 50/50 Isopropyl Alcohol (70%) and Water Mix	

Notes to the Installer:










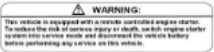
- Read the entire installation manual prior to beginning the installation of the accessory.
- Ensure that the vehicle is properly protected in the area that the accessory is to be installed.
- To prevent vehicle damage, never place tools on top of painted surfaces, seats, dash pad, console or floor carpet / mat.
- Always wear appropriate safety gear to include gloves and eye protection when required.
- Prior to disconnecting the negative lead to the battery, note the AM/FM and satellite set frequencies on the inspection page, if applicable.
- To prevent stress on the remote start wire harness, ensure the tilt steering column is fully extended, if equipped.
- Ensure the transportation fuse is properly installed before performing the function check on page 9.
- Open driver's door window.
- Vehicle should be at room temperature.
- Ensure vehicle is equipped with automatic transmission. If the vehicle is not equipped with these options, do not proceed.



Technical Support
 For Authorized Dealers - 855-225-7344
 Hours : 9:00 a.m. - 5:00 p.m. EST Monday - Friday

KIA Genuine Accessories

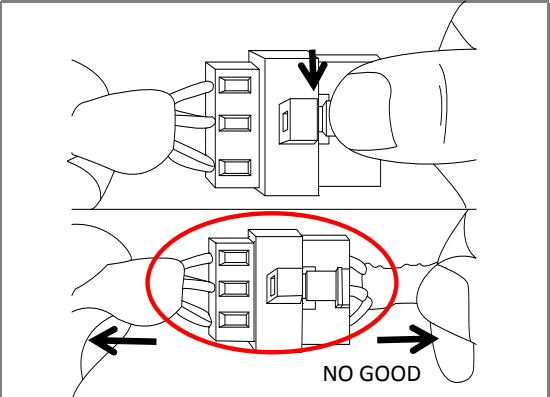
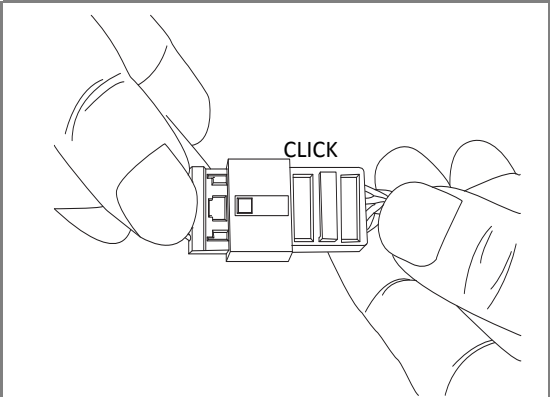
Kit Overview

<p>①</p>  <p>Main Controller Module 4UF60 AQ700MC</p>	<p>②</p>  <p>Remote Transmitter 4UF60 AQ700RT</p>	<p>③</p>  <p>Antenna 4UF60 AQ700AT</p>
<p>④</p>  <p>Antenna Harness 4UF60 AQ700AH</p>	<p>⑤</p>  <p>Main Harness 4UF60 AQ700MH</p>	<p>⑥</p>  <p>Cable tie</p>
<p>⑦</p>  <p>Installation Guide</p>	<p>⑧</p>  <p>Owner's Guide</p>	<p>⑨</p>  <p>Quick Reference Guide</p>
<p>⑩</p>  <p>Warning Label</p>		

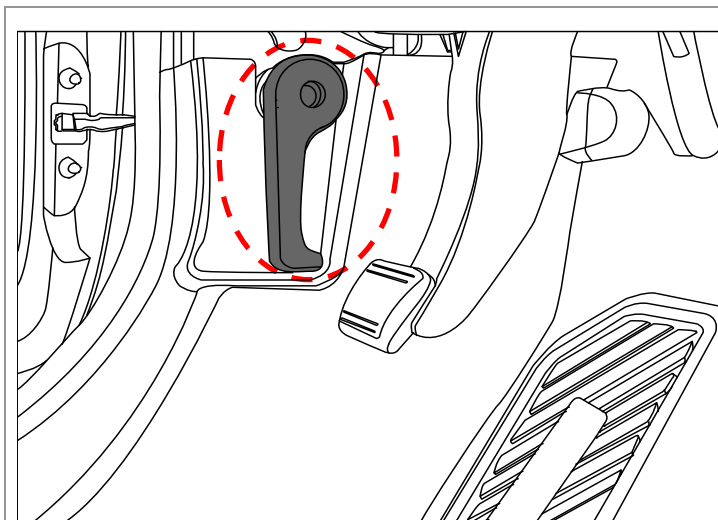
No.	Qty.	Description	No.	Qty.	Description
1	1	Main Controller Module	6	10*	Cable tie
2	2	Remote Transmitter	7	1	Installation Guide
3	1	Antenna	8	1	Owner's Guide
4	1	Antenna Harness	9	1	Quick Reference Guide
5	1	Main Harness	10	1	Warning label

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

Pay attention!

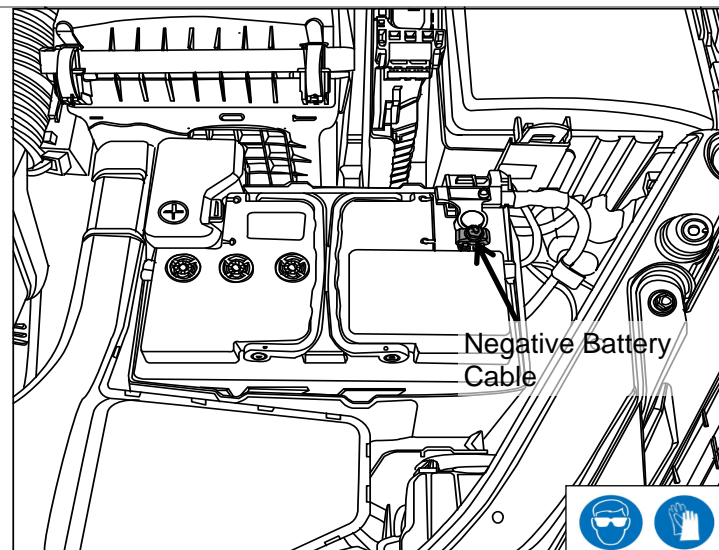
 <p>Disconnecting Connectors</p> <p>When disconnecting connectors, press the lock tab and pull apart by grasping the connectors. DO NOT PULL ON WIRES.</p>	 <p>Locking Connectors</p> <p>When locking connectors, listen for a click indicating they are securely locked.</p>
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KIA Genuine Accessories




 **1**

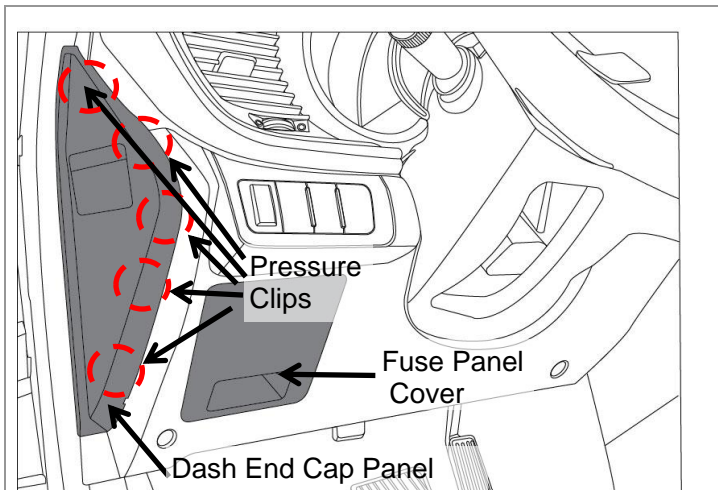
- NOTE**
1. Locate Hood Lever on the Driver's Kick Panel as shown above.
 2. Pull the Hood Lever to open the hood.



 **Ratchet and 10mm Socket** **2**

- NOTE**
1. Using a Ratchet and 10 mm Socket, remove and isolate the Negative Battery Cable from the battery.

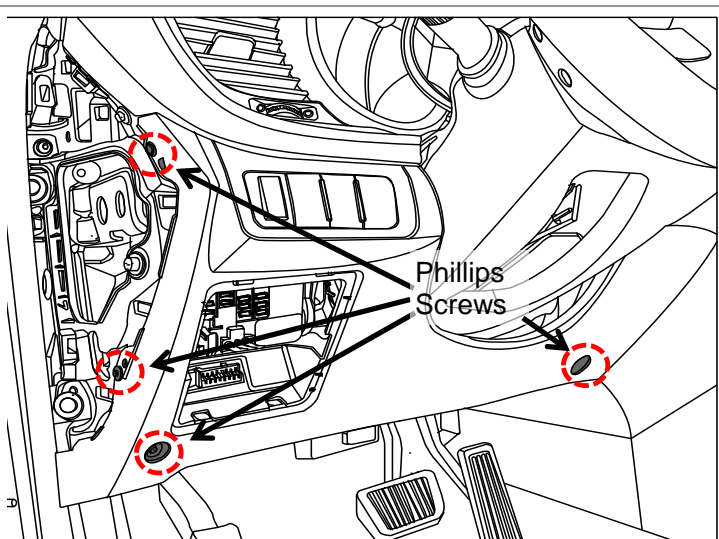
 **WARNING! Shock Hazard. Do not touch vehicle's negative battery terminal to vehicle's positive battery terminal. Serious physical injury or electronic component damage may occur.**



 **Trim Removal Tool** **3**

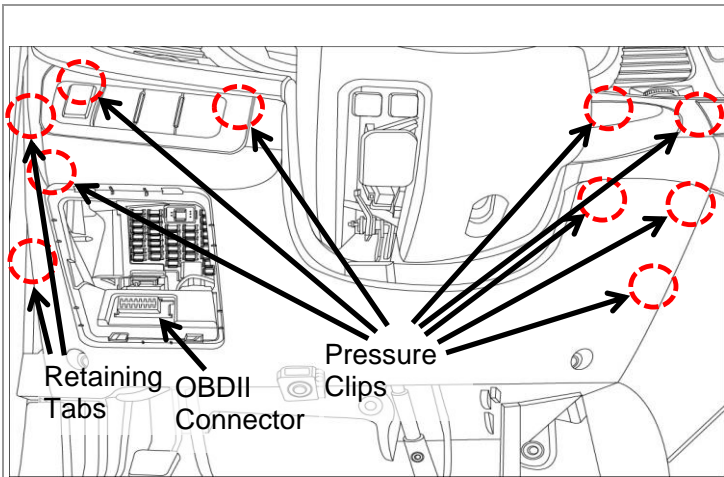
- NOTE**
1. Remove the Fuse Panel Cover
 2. Using a Trim Removal Tool, remove the driver's side Dash End Cap Panel by prying outward to disengage the five (5) Pressure Clips.

 **Store the removed parts in a safe location to prevent damage.**

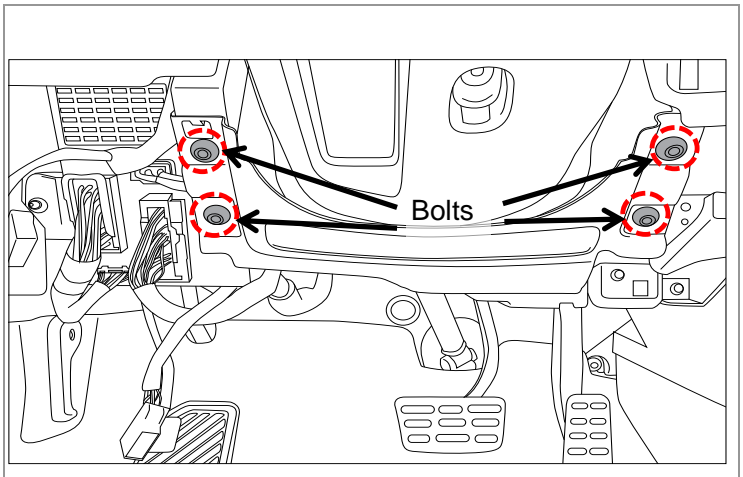


 **Phillips Screwdriver** **4**

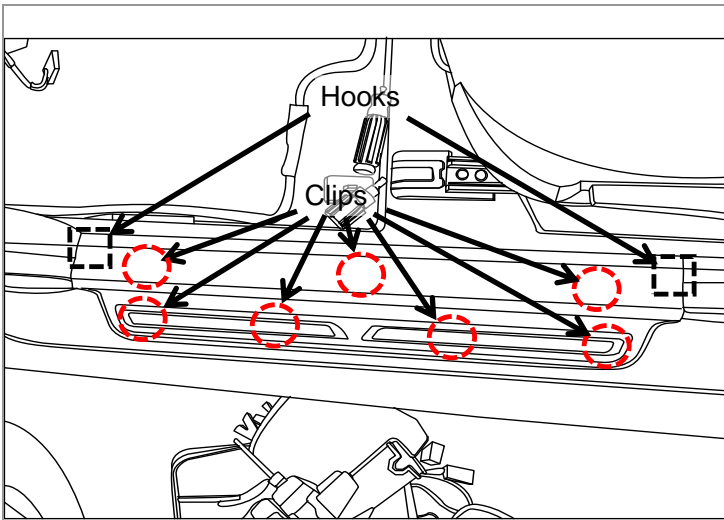
- NOTE**
1. Using a Phillips Screwdriver, remove the four (4) Phillips Screws from the Lower Dash Panel as shown.



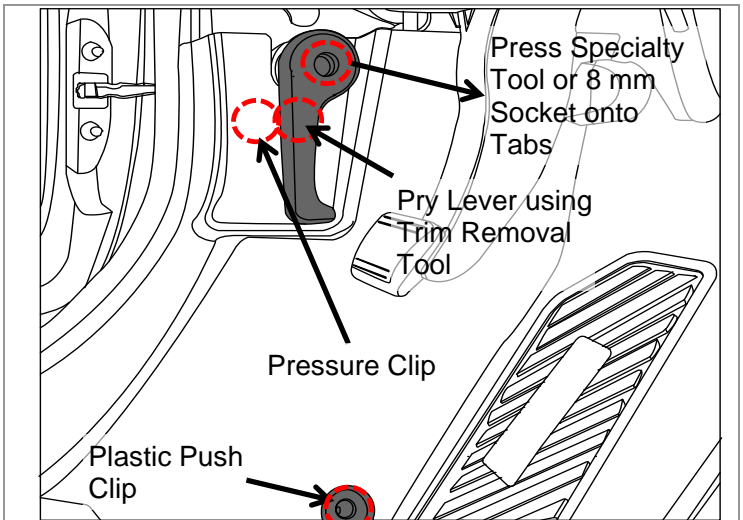
	Trim Removal Tool	5
NOTE	<ol style="list-style-type: none"> Using a Trim Removal Tool, carefully pry outward to release the two (2) Retaining Tabs and eight (8) Pressure Clips. Remove the OBD II connector from the panel. Disconnect any remaining connectors, if equipped, including the Push Start Button switch connector. Pull upward and rearward to remove the panel. 	
	Store the removed part in a safe location to prevent damage.	



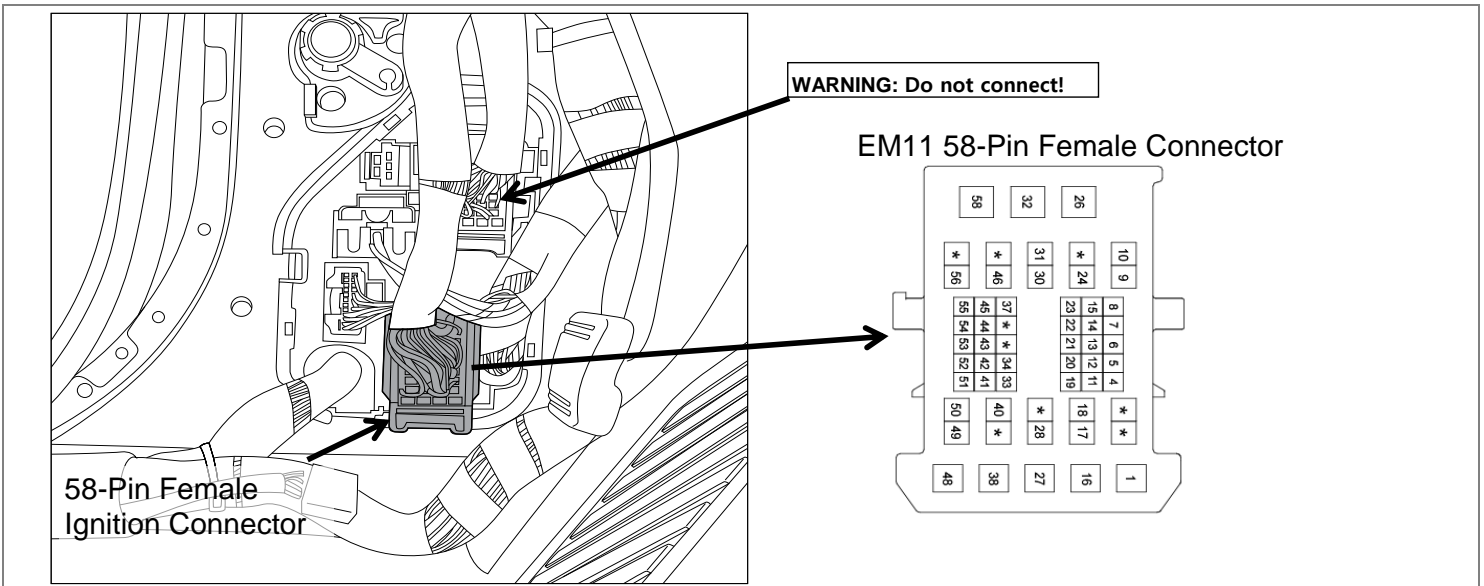
	Ratchet, Extension and 10 mm Socket.	6
NOTE	<ol style="list-style-type: none"> Using a Ratchet, Extension and 10 mm Socket, remove the four (4) 10mm Bolts securing the Knee Bolster Plate. 	
	WARNING! Knee bolster plate may be sharp.	



	Trim Removal Tool	7
NOTE	<ol style="list-style-type: none"> Using a Trim Removal Tool, remove the Driver's Side Front Door Step Sill Trim Panel by inserting the Trim Removal Tool under the Trim Panel and prying upward to release the three (3) plastic clips, four (4) metal clips, and two (2) hooks. Disconnect the Sill illumination connector, if equipped. Carefully pull the weatherstrip away from the side of the Driver's Kick Panel and Front Door Step Sill area. 	
	CAUTION! When removing the sill panel, pull in a controlled manner. If the vehicle is equipped with the Sill illumination, the connection harness is short and may be damaged when pulling.	



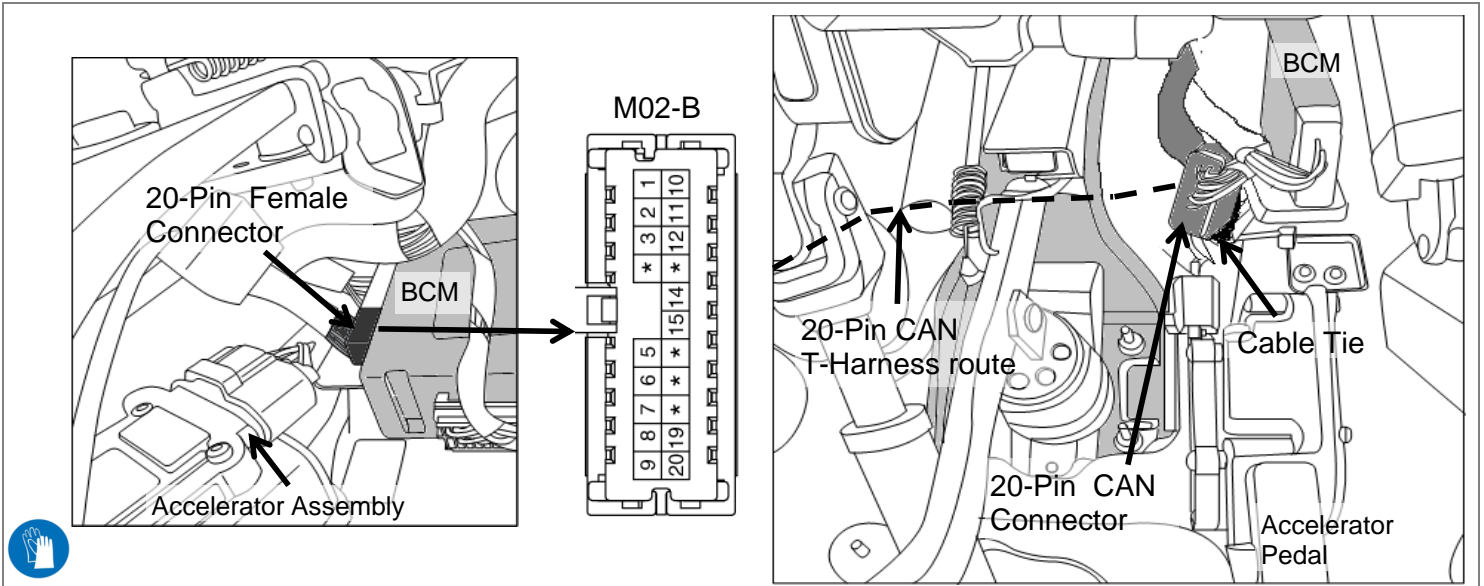
	Trim Removal Tool and Specialty Tool or 8 mm Socket	8
NOTE	<ol style="list-style-type: none"> Using a Specialty Tool or 8 mm Socket, remove the Hood Latch Release Lever by compressing the center post tabs while simultaneously prying the lever away from the Kick Panel using a Trim Removal Tool. Using a Trim Removal Tool, remove the one (1) Plastic Push Clip. Remove the Driver's Kick Panel by pulling inwards to release the one (1) Pressure Clip. 	
	CAUTION! Be Careful not to damage the hood lever or the driver's kick panel when removing!	



NOTE

1. Identify and disconnect the LOWER factory 58-pin Female Ignition Connector and then plug into the corresponding Remote Start Harness connectors.

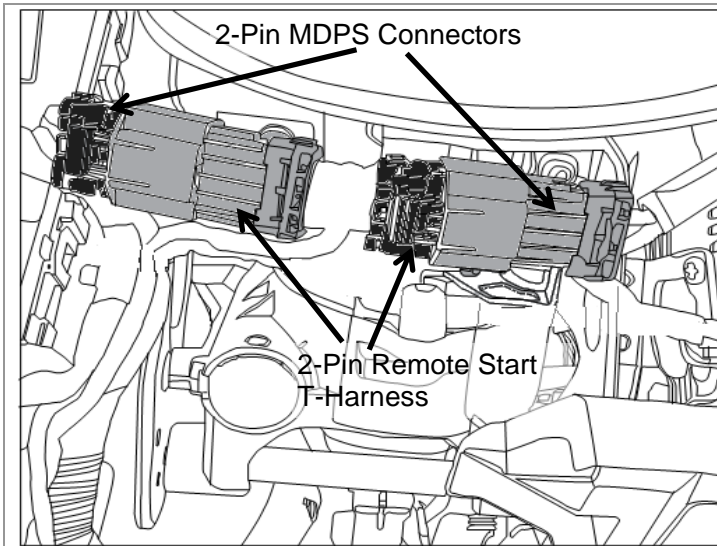
CAUTION! There are two (2) similar looking 58-pin female connectors. The lower connector is the correct connector (ignition) for T-harness connection.



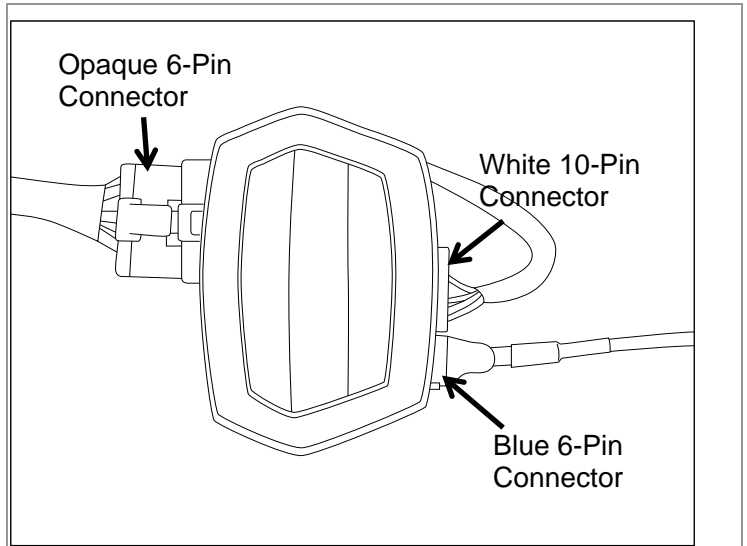
Wire Cutter

NOTE

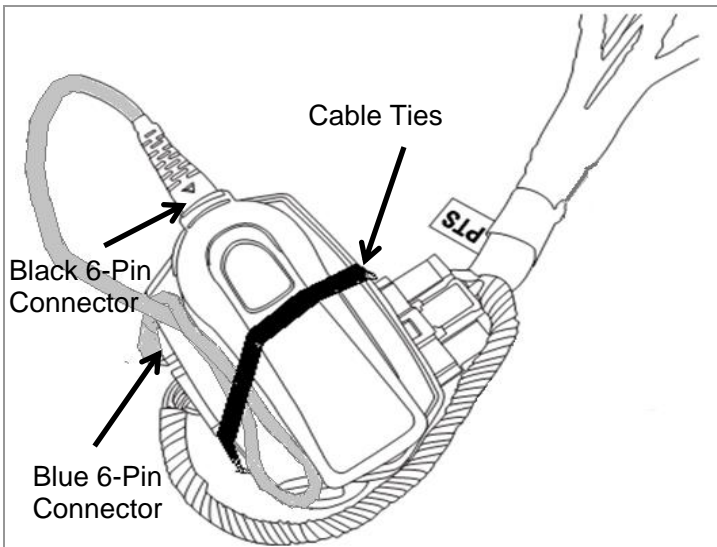
1. Locate the BCM Module above the accelerator pedal as shown above.
2. Locate the factory 20-pin Female Connector above the accelerator pedal as shown above.
3. Run the 20-pin CAN T-Harness wire through the space behind the Brake Pedal Bracket Assembly.
4. Disconnect the factory 20-pin Female Connector and then plug into the corresponding Remote Start Harness connectors.
5. Using a Cable Tie, secure the 20-pin T-Harness to factory harness as shown above.
6. Using a Wire Cutter, trim off excess cable tie.



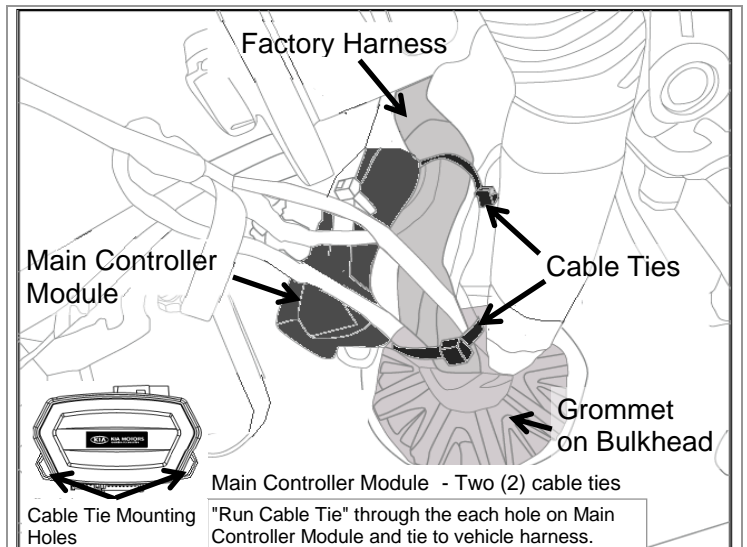
11	
NOTE	<ol style="list-style-type: none"> 1. Identify and disconnect the Factory 2-pin MDPS Connector located at lower side of the Steering Column and then plug into the corresponding Remote Start Harness Connectors as shown above. 2. Slide the locking tab (Yellow color) on the Factory 2-Pin MDPS Female Connector to the right, then press the tab to release. 3. Push firmly the double-lock button (Yellow color) into the connectors located on both ends of T-Harness.
	<p>WARNING! Make sure that both connectors of Remote start T-Harness are fully seated and locked in place, with the yellow locks pressed into each connector, otherwise power can be disconnected to power steering.</p>



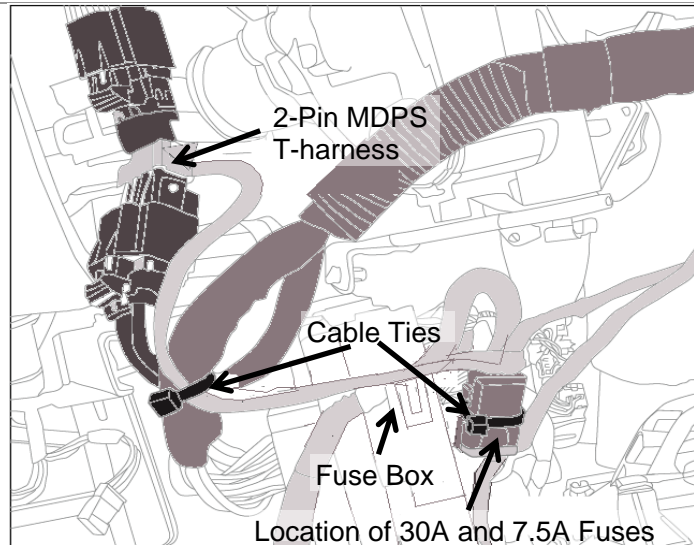
12	
NOTE	<ol style="list-style-type: none"> 1. Connect the 6-pin Remote Start harness connector (Opaque Color) to the Main Controller Module. 2. Connect 10-pin Remote Start Harness Connector (White color) to the Main Controller Module. 3. Connect 6-pin Antenna Connector (Blue color) to the Main Controller Module.
	<p>Ensure that each connector is fully seated on the Main Controller Module.</p>



13	
NOTE	<p>Wire Cutter</p> <ol style="list-style-type: none"> 1. Remove film from double side tape on Antenna and adhere to the top of the Main Controller Module as shown above. 2. Connect the 6-pin Antenna Connector (Black color) to the Antenna. Make sure the connector is fully seated and locked. 3. Join the two (2) cable ties together and install around the module and antenna to secure both parts together. 4. Using a Wire Cutter, trim off excess wire ties.
	<p>Pay attention not to route cable ties over antenna button or electrical connectors.</p>



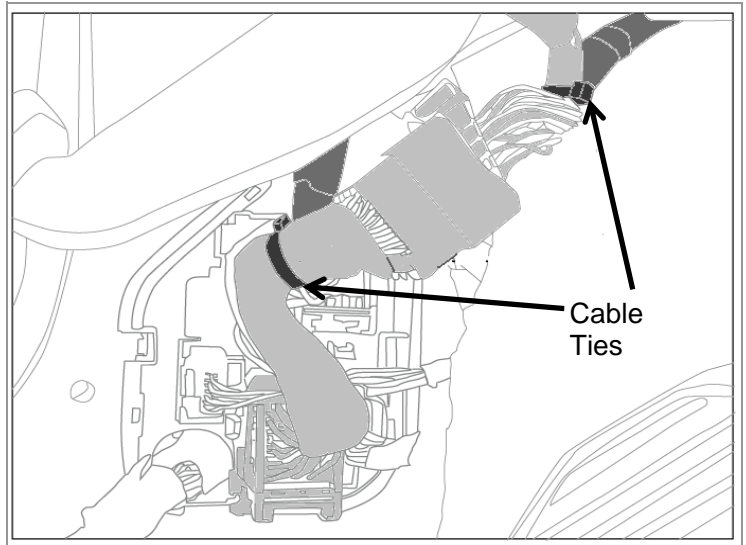
14	
NOTE	<p>Wire Cutter</p> <ol style="list-style-type: none"> 1. Install the "Main Controller Module" on the left side of the factory Harness/Grommet and then Using two (2) Cable Ties, secure to the factory harness as shown above. 2. Using a Wire Cutter, trim off excess cable ties.
	<p>Pay attention not to allow other factory components to depress the antenna button. Make sure wire harnesses do not interfere with driver's feet.</p>



Wire Cutter 15

- NOTE**
1. Using a Cable Tie, secure the 30A Fuse and 7.5A Fuse to the Factory Harness as shown above.
 2. Using a Cable Tie, secure the 2-pin MDPS T-Harness to the Factory Harness as shown above.
 3. Using a Wire Cutter, trim off excess cable ties

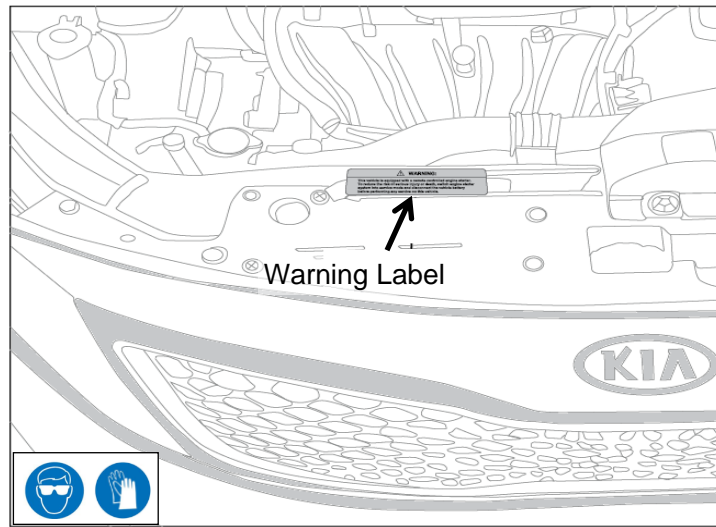
Make sure wire harnesses do not interfere with driver's feet or pedals.



Wire Cutter 16

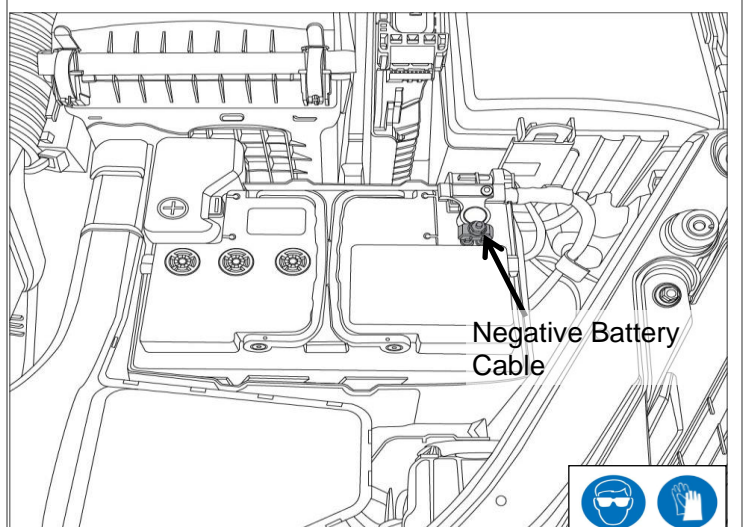
- NOTE**
1. Using the two (2) Cable Ties, secure the EM11 Harness (in Step 9) to the Factory Harness as shown above.
 2. Using a Wire Cutter, trim off excess cable ties

Make sure driver's side kick panel does not interfere with this T-harness.



Clean Cloth, 50/50 Mix of Isopropyl Alcohol (70%) and Water 17

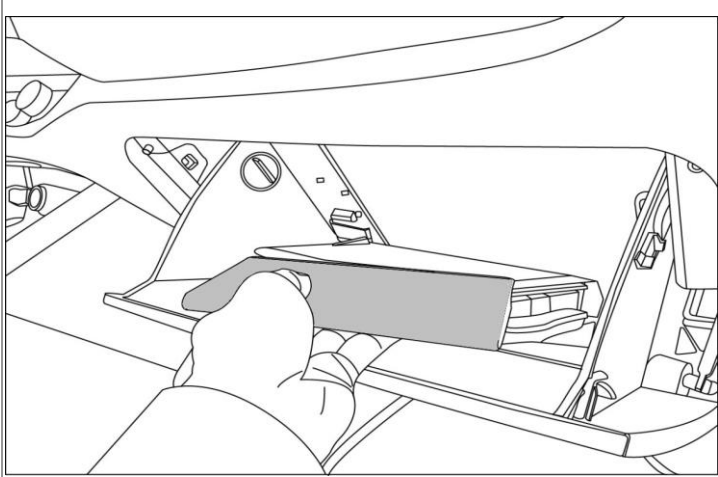
- NOTE**
1. Using 50/50 Isopropyl Alcohol (70%) and Water Mix, clean the top surface of the radiator core support. Ensure that the surface is completely dry.
 2. Remove the backing on the Warning Label and secure in place, as shown above.




Wire Cutter 18

- NOTE**
1. Reconnect the Push Start Button Connector and temporarily reinstall the Lower Dash Panel for the Function Check Test.
 2. Reconnect the Negative Battery Cable.
 3. Test LOCK/UNLOCK function using the Factor Smart Key Fob.
 4. Get in the vehicle with the Factory Smart Key Fob, press the Brake Pedal and push the Start Button to start the engine.
 5. Wait for 5 seconds, then push the Start Button to stop the engine.
 6. Temporarily replace the Hood Lever.
 7. Close all doors, trunk and hood.
 9. Perform the Function Check on the following page.





























If vehicle is not responding, please carefully re-check all wiring connections, especially antenna wiring and main module connections per the Troubleshooting Section on page 10.









	Torque Wrench, Extension and 10mm Socket	19
N O T E	<ol style="list-style-type: none"> 1. Remove the Lower Dash Panel and disconnect the Push Start Button connector. 2. Reinstall all panels in reverse order of removal. When reinstalling the Knee Bolster Plate, use a Torque Wrench, Extension, and 10mm Socket to tighten the four (4) 10mm Bolts to: 10.0 N.m (1.0 Kgf.m, 7.0 lb.ft). 3. Attach the Remote Transmitters to the Factory Key Fob Rings. 4. Place the Quick Reference Guide and the Owner's Guide into the vehicle's glove box. 	

KIA Genuine Accessories Function Check

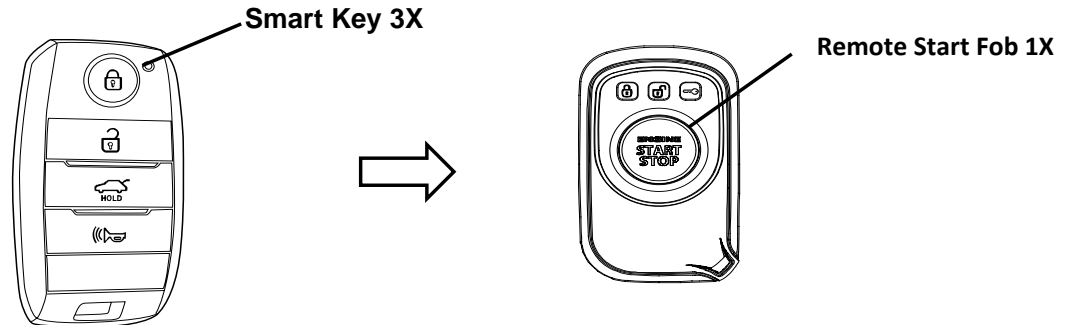
1. Basic function checklist

Items To Be Checked	Results Of The Check
 1. Press  button one time (All doors, hood & trunk are closed)	1. Remote Lock LED flash, vehicle signal lights flashes once and All doors will lock.
 1. Press  button 2 times 2. Press  button 2 more times	1. Remote Unlock LED flash, vehicle signal light flashes twice and Driver's door will unlock. 2. Remote Unlock LED flash, vehicle signal light flashes twice and All doors will unlock.
 1. Press  button one time 2. Then within 3 seconds, press and hold  button until Remote Key LED flashes.	1. Remote Lock LED flash, vehicle signal light flashes once and All doors will lock. 2. Remote key LED will flash, the engine will crank and start within 5 seconds and the vehicle signal light flashes twice after Engine Start.
 1. Press  button 2 times (After starting engine with remote) 2. Press  button 2 more times (After starting engine with remote)	1. Remote Unlock LED flash, vehicle signal light flashes twice and Driver's door will unlock. 2. Remote Unlock LED flash, vehicle signal light flashes twice and All doors will unlock.
 1. Press  button one time (After starting engine with remote)	1. Remote Lock LED flash, vehicle signal light flashes once and All doors will lock.
 1. Press and hold  button for 2 seconds (After starting engine with remote)	1. Remote Key LED flash, the Engine will shut down.
 1. Open the hood. (After starting engine with remote)	1. The Engine will shut down immediately.
 1. Open any door (After starting engine with remote and pressing Unlock button 4 times)	1. The Engine will shut down after 30 seconds of opening the door.
 1. Open trunk (After starting engine with remote and pressing Unlock button 4 times)	1. The Engine will shut down after 60 seconds of opening the trunk.
 SMART KEY 1. Press  LOCK button 2. Press  button or  button within 3 seconds of  LOCK button press.	1. Vehicle signal light flashes once and All doors will lock. 2. Engine will crank and start within 5 seconds, vehicle signal light flashes twice after Engine Start.
 SMART KEY (After starting engine with remote) 1. Press  UNLOCK button 2. Press  UNLOCK button one more time 3. Press  button or  button	1. Vehicle signal lights flashes twice and Driver's door will unlock. 2. Vehicle signal lights flashes twice and All doors will unlock. 3. The Engine will shut down.

KIA Genuine Accessories Troubleshooting

Issue / Concern	Item To Be Checked	
	The vehicle does not LOCK using the Remote Start Key Fob.	<ul style="list-style-type: none"> ■ Check the vehicle status. <ul style="list-style-type: none"> ① Engine is OFF ② ACC is OFF ③ All Doors are Closed ④ Hood and Trunk are Closed
	The vehicle LOCKS, UNLOCKS, but does not START (no cranking sound).	<ul style="list-style-type: none"> ■ Make sure the Valet mode is OFF. Please refer to Owner's Guide - Page 6. Valet/Service Mode, To Exit Valet Mode/Service mode. ■ Improper button activation procedure. Please refer to Function Check, No.1 Basic function checklist. ■ After verifying the Valet mode is OFF and the buttons are pressed correctly, If the vehicle still does not start, it might be an Installation Issue - Call the Technical Support number on page 1 for assistance.
	The vehicle LOCKS, UNLOCKS, but does not START and there is CRANKING sound from the engine.	<ul style="list-style-type: none"> ■ Confirm the MDPS connection is correctly installed, please refer to step 11 for correct installation. ■ Please check the battery in the vehicle. ■ If the vehicle still does not start, it might be an Installation Issue - Call the Technical Support number on page 1 for assistance.
	The remote Fob does NOT LOCK, UNLOCK, or START the vehicle. The LED lights light up when buttons are pressed.	<ul style="list-style-type: none"> ■ The remote Fob is not pairing to the vehicle. Please see Remote Start Fob Pairing Procedure on page 11.
	The LED light on the remote Fob does not light up.	<ul style="list-style-type: none"> ■ Change the batteries in the remote FOB. Please refer to the Owner's Guide for details.
	Engine turns off when entering vehicle after starting engine with remote.	<ul style="list-style-type: none"> ■ Vehicle will shut off after 30 seconds if brake and start button have not been activated as noted in the Owner's Guide Please refer to Owner's Guide - Page 4. Remote Starting your Vehicle, Driving Off. ■ Verify vehicle start button is pressed within 3 seconds of brake activation. ■ Verify the Smart Key is inside the vehicle. ■ Verify the Smart Key's battery is OK.

KIA Genuine Accessories (Remote Start Fob Pairing Procedure)



1

- 1) Open the driver's door and trunk.
- 2) Press button of Smart Key three (3) times within 5 seconds.
- 3) After step 2 within 5 seconds.
Press button on the 1st Remote Start Fob one time.
- 4) After registering the 1st Remote Start Fob, within another 5 seconds,
Press button on the 2nd Remote Start Fob one time.
- 5) Verify that both Fobs are functioning correctly by performing lock/unlock function.



Note: The remote engine start system can recognize up to three (3) remotes Fobs; the kit includes two (2) remote Fobs. If a new Fob, or additional Fob is needed later, the Fob pairing process should be done with the original Fob or oldest available Fob.

