

Genuine Accessories



Vehicle Model **Elantra GT**

Accessory: **Remote Engine Start - Key Start**

Model Year 2018-
 Part No. G3F57 AC200
 Language English
 Rev. Date 5/15/2017

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 or Specialist

Application Notes

**Vehicle must be equipped with mechanical key start.
 Ensure vehicle does NOT have SMART KEY (PUSH BUTTON IGNITION SYSTEM).**

Vehicle should be equipped with automatic transmission, power door locks, and power windows. If these features are not equipped on the vehicle, do not proceed with install.

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 personal protective equipment (PPEs) that may be required for a step. Examples of safety equipment icons noted below:	
	Denotes cautions to be taken to avoid physical injury or electronic component damage		Denotes specific tools that are necessary to complete a step		
	Denotes cautions to be taken to avoid vehicle and component damage	N O T E	Denotes important information to be reviewed during the step		

Basic Required Tools

Ratchet	10 mm Socket	12 mm Socket	Extension	Torque wrench	#2 Phillips Screwdriver	Wire Cutters

Trim Removal Tool	Clean Cloth	50/50 Isopropyl Alcohol (70%) and Water Mix

All dealers must determine if the weight they have added in the form of all options or accessories, when added to the weight of all Port/Dealer Installed options or accessories, exceeds the lesser of 1.5% of GVWR or 100 lbs. If the additional weight does exceed the lesser of the indicated thresholds, a "Load Carrying Capacity Reduced" label must be installed. A black, fine-point, indelible marker must be used to write by hand onto the label, the reduced carrying capacity in kilograms or pounds, which is the total weight of all added options and accessories.

Technical Support

Authorized dealers use: (1) 855-225-7344
 Hours: M-F - 9am-5pm Pacific Standard Time

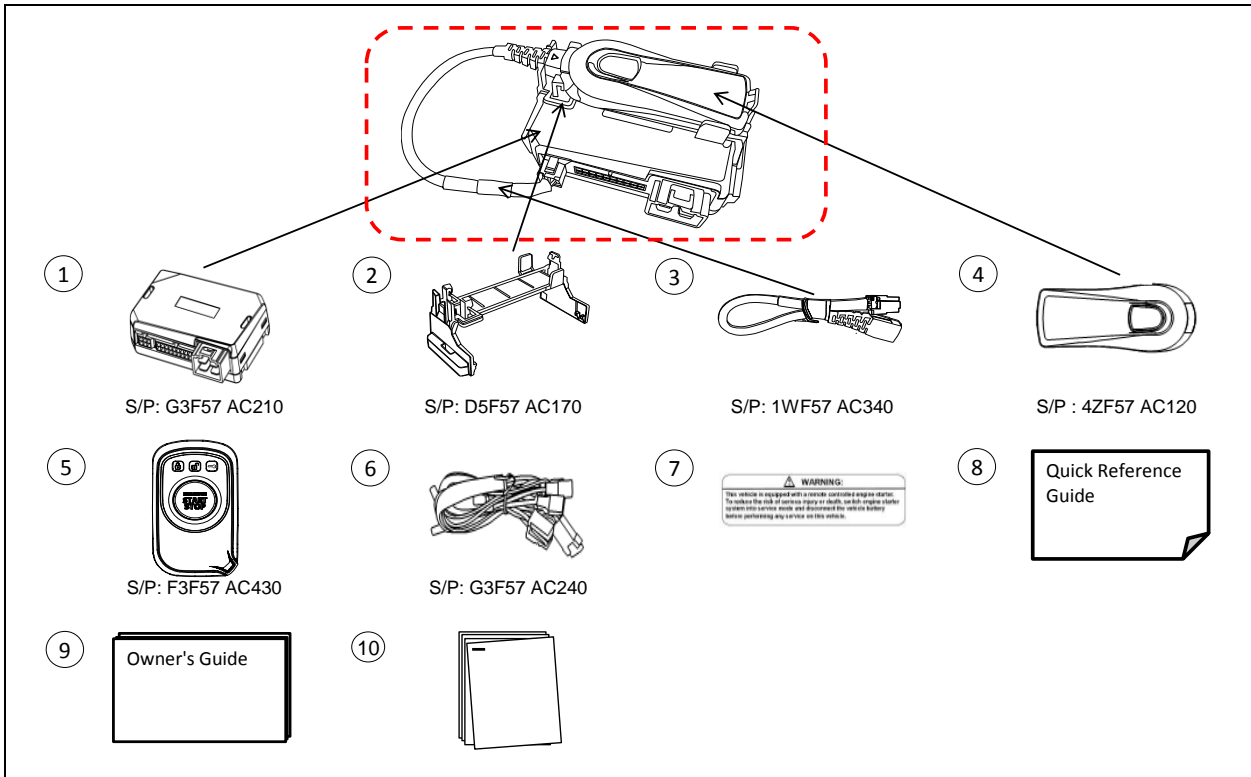
Notes to the installer:

- 1 Read the entire Installation Instructions prior to beginning the installation of the part.
- 2 Make sure the vehicle is completely clean and dry in the area(s) the part is to be installed.
- 3 Ensure the vehicle is properly protected in the area(s) that the accessory is to be installed.
- 4 NEVER place tools on painted surfaces, seating surfaces, dash pad, console or floor carpet/mats.
- 5 Always wear appropriate personal protective equipment, including gloves, safety glasses, etc., when required.
- 6 Record radio presets prior to disconnecting battery power, if needed.
- 7 Ensure the transportation fuse is set to "ON" before starting the install.
- 8 Roll down the driver's window and adjust the power seats (if applicable) prior to disconnecting battery power, if needed.
- 9 To prevent stress on the remote start wire harness, ensure the tilt steering column is fully extended before installing the kit.
- 10 Vehicle should be at room temperature.
- 11 The order of the disassembly and reassembly steps have been optimized for maximum efficiency and the correct installation of the Remote Engine Start kit. Disassemble vehicle components (including harness connectors) and install the kit components according to each step, as indicated. Avoid disassembling or reassembling any components in advance to prevent unnecessary labor time and/or installation errors.

Part Weight (Gross)	
0.85	lbs
0.38	kg

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Kit Overview



No.	Qty	Description	No.	Qty	Description
1	1	Control Module	6	1	Harness
2	1	Antenna Bracket	7	1	Warning Label
3	1	Antenna Harness	8	1	Quick Reference Guide
4	1	Antenna	9	1	Owner's Guide
5	2	1 Way Transmitter Fob	10	1	Installation Guide

Hardware Kit Contents

A	
11	Wire Tie*

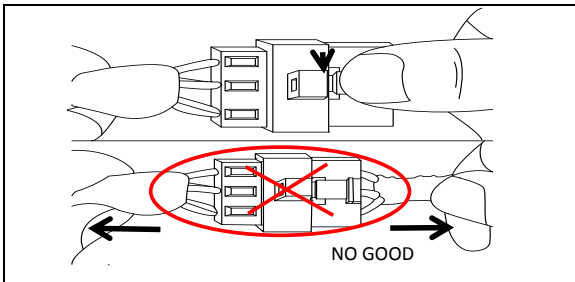
* Indicates extra components intentionally included in kit as spares.
Follow instructions for proper placement of each component.

Hardware Total
11

Radio Presets - record customer preset frequencies if disconnecting battery power

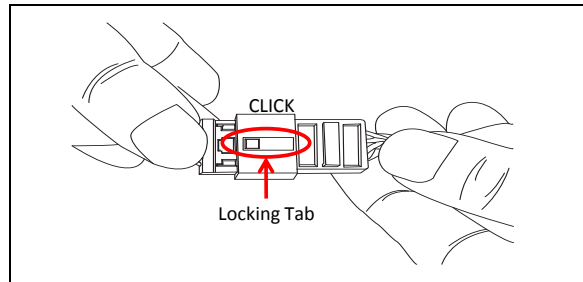
FM1 _____	FM2 _____	FM3 _____	FM4 _____	FM5 _____
FM6 _____	FM7 _____	FM8 _____	FM9 _____	FM10 _____
AM1 _____	AM2 _____	AM3 _____	AM4 _____	AM5 _____
SAT1 _____	SAT2 _____	SAT3 _____	SAT4 _____	SAT5 _____

Special Instructions



Disconnecting Connectors

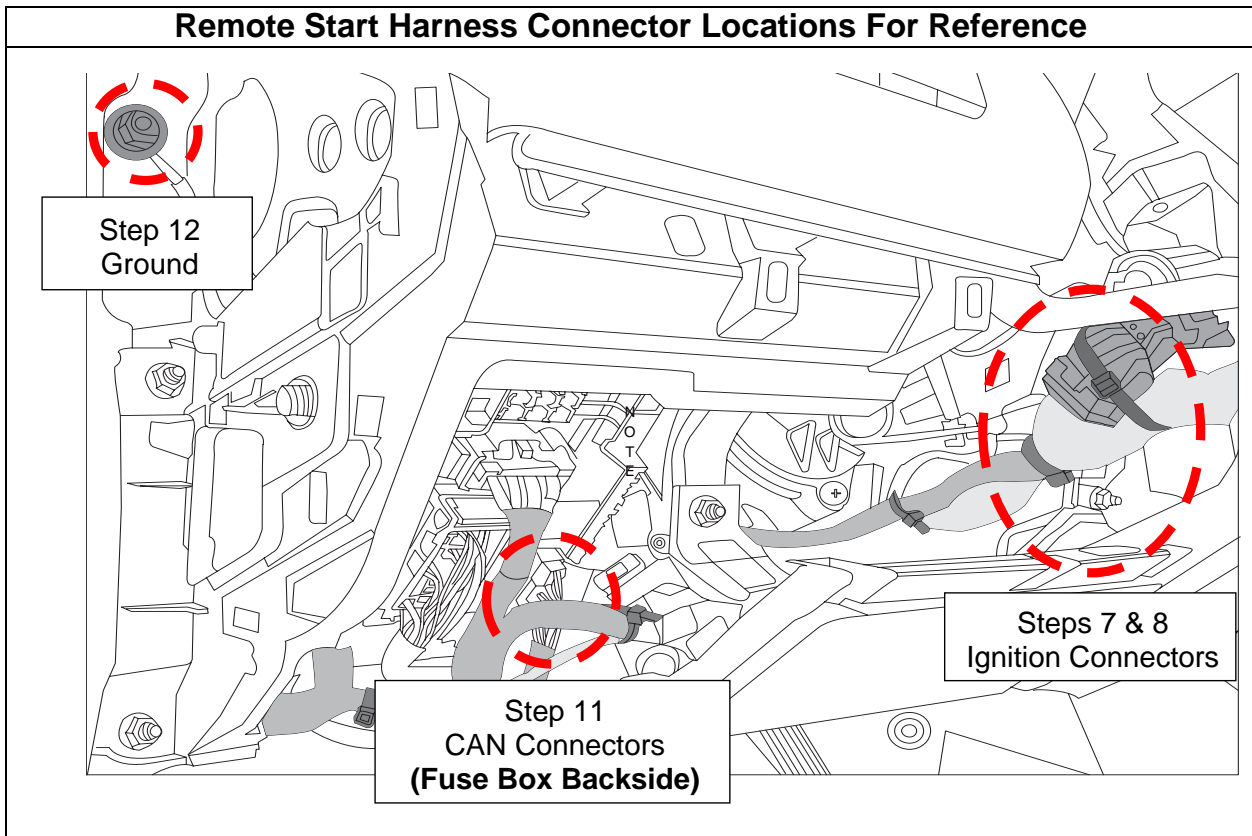
When disconnecting connectors, grasp the connectors, not the wire.


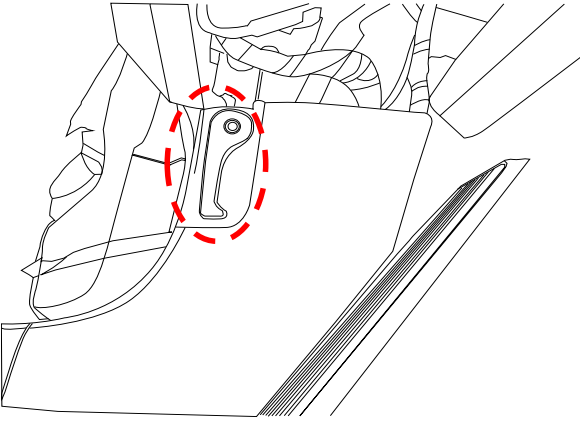



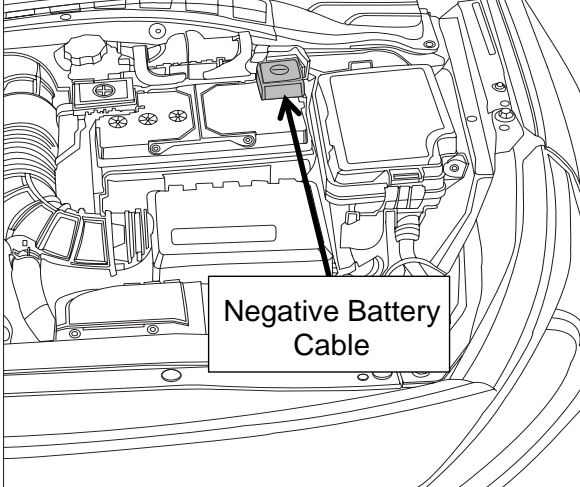

Locking Connectors

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


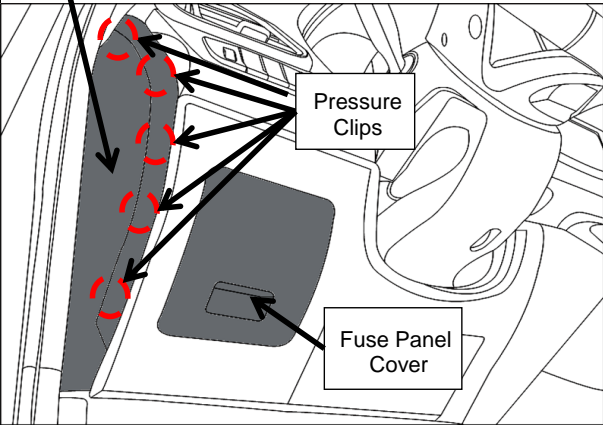

Remote Start Harness Connector Locations For Reference


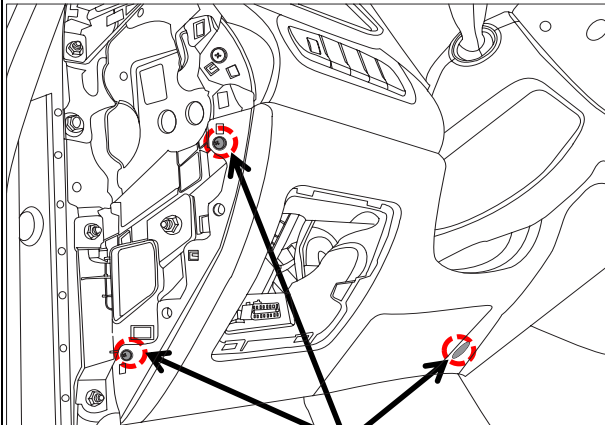




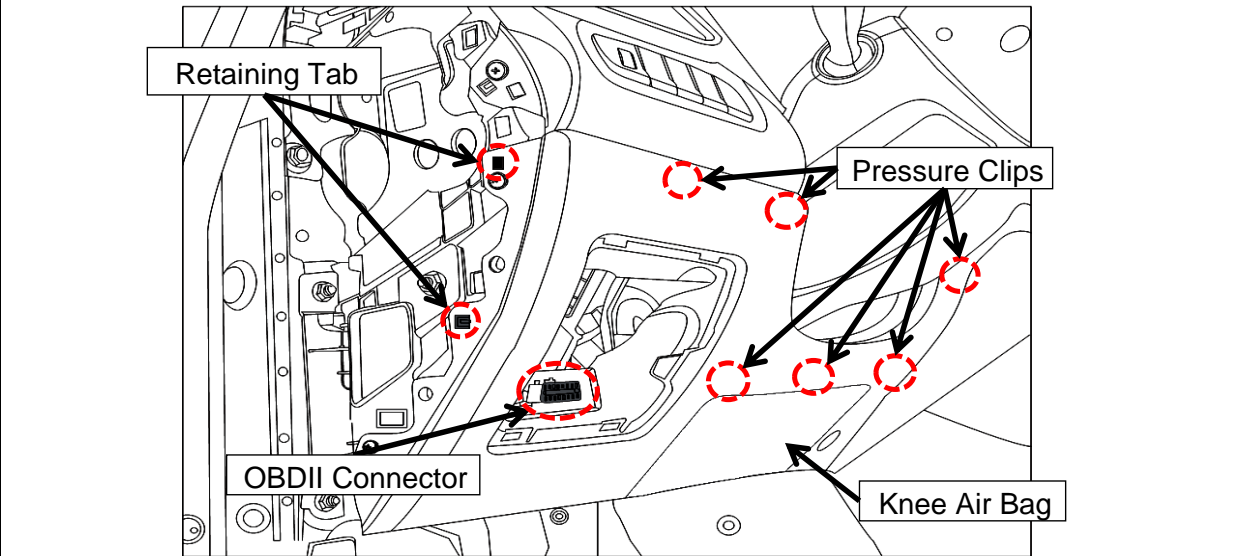

1	
	
N O T E	<ol style="list-style-type: none"> 1. Open the Driver's Door Window. 2. Move the Driver's Seat to the rearmost position. 3. Record all pre-set radio stations (if applicable). 4. Pull the Hood Lever to open the Hood.

2		Ratchet and 10mm Socket
 <p style="text-align: center;">Negative Battery Cable</p>		
N O T E	<ol style="list-style-type: none"> 1. Remove the vehicle's Negative Battery Cover. 2. Disconnect and isolate the vehicle's Negative Battery Cable. 	
		<p>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.</p>


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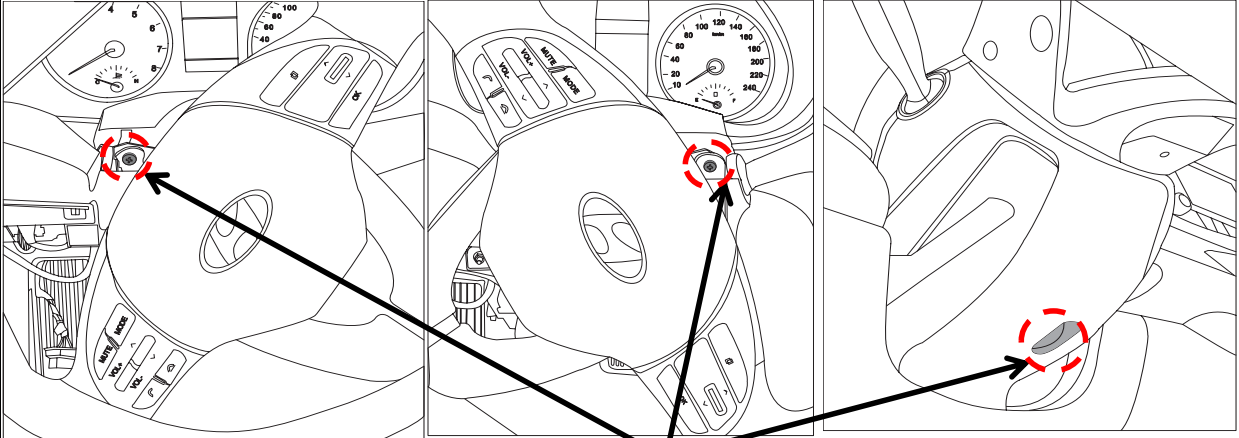
3	 Trim Removal Tool
Dash End Cap Panel	
	
N O T E	<ol style="list-style-type: none"> 1. Remove the fuse panel cover. 2. Gently pull the weather strip back from the dash area. 3. Using a trim removal tool, remove the driver's side dash end cap panel by prying outward to disengage the five (5) Pressure clips. 4. Store the removed parts in a safe location for reinstallation later.
	Caution: Do not damage the Dash Panel, Fuse Panel Cover or Dash End Cap. Make sure no pressure clips remain in the dash board.

4	 #2 Phillips Screwdriver
Phillips Screws	
	
N O T E	<ol style="list-style-type: none"> 1. Using a Phillips Screwdriver, remove the two (2) phillips screws from the side of the lower dash panel as shown. 2. Using a Phillips Screwdriver, remove the one (1) phillips screw from the bottom of panel as shown. 3. Store the removed screws in a safe location for reinstallation.
	Caution: Do not damage the Lower Dash Panel.

5	 Trim Removal Tool
	
N O T E	<ol style="list-style-type: none"> 1. Disconnect the OBDII Connector. 2. By hand, dislodge the Lower Dash Panel. 3. Disconnect any Electrical Connectors from the Lower Dash Panel, if applicable. 4. Store the removed part in a safe location for reinstallation later.
	Caution! Do not damage the Lower Dash Panel, OBDII Connector or Electrical Connectors. Do not damage or scratch the Knee Air Bag Trim Panel.

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6  #2 Phillips Screwdriver and Trim Removal Tool




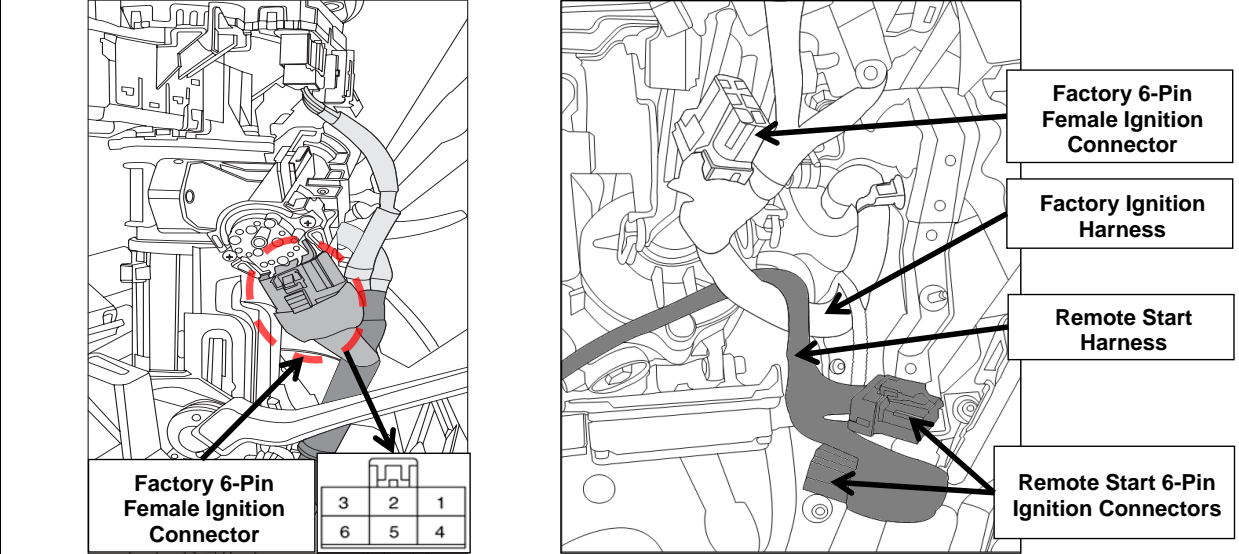
Phillips
Screws

N O T E

1. Release the Upper Steering Column Shroud using a trim removal tool.
2. Remove the three (3) Phillips Screws securing the Lower Steering Column Shroud as shown.
 - Rotate the Steering Wheel as needed to access the two (2) Upper Screws.
3. Release the Tilt Adjust Lever on the Steering Wheel Column.
4. Carefully remove the Lower Steering Column Shroud to access the 6-Pin Ignition Switch Connector.
5. Adjust the Tilt Steering Wheel to the **fully extended position** and lock into place.
6. Store the removed parts in a safe location for reinstallation.

 ****NOTE :** To access screws, insert key and turn to the ACC position, in order to prevent steering wheel from locking.
Caution: Do not damage the Steering Column Shroud, Steering Wheel or Steering Column.

7 



**Factory 6-Pin
Female Ignition
Connector**

3	2	1
6	5	4

**Factory 6-Pin
Female Ignition
Connector**

**Factory 6-Pin
Female Ignition
Connector**


**Factory Ignition
Harness**

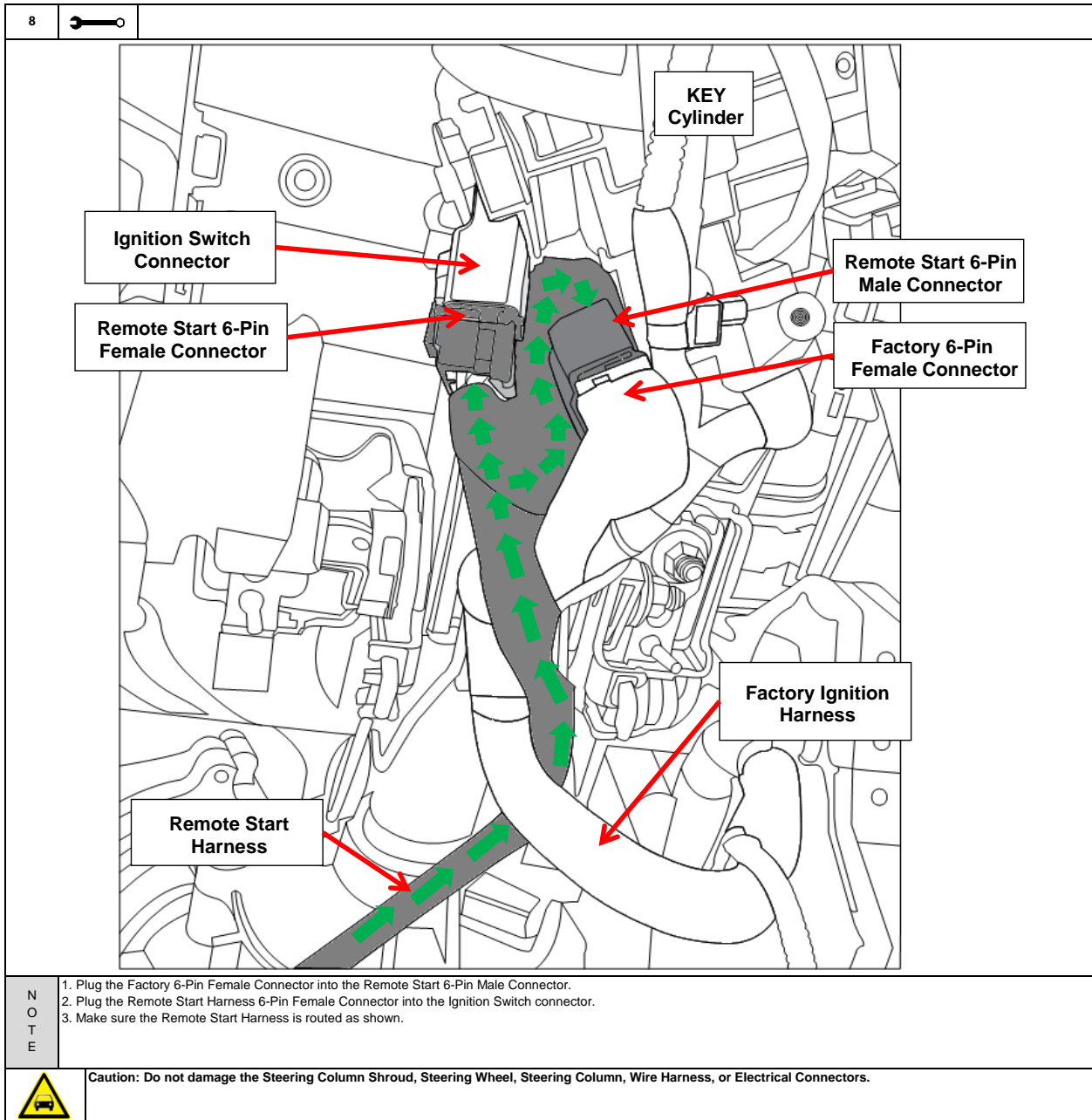
**Remote Start
Harness**

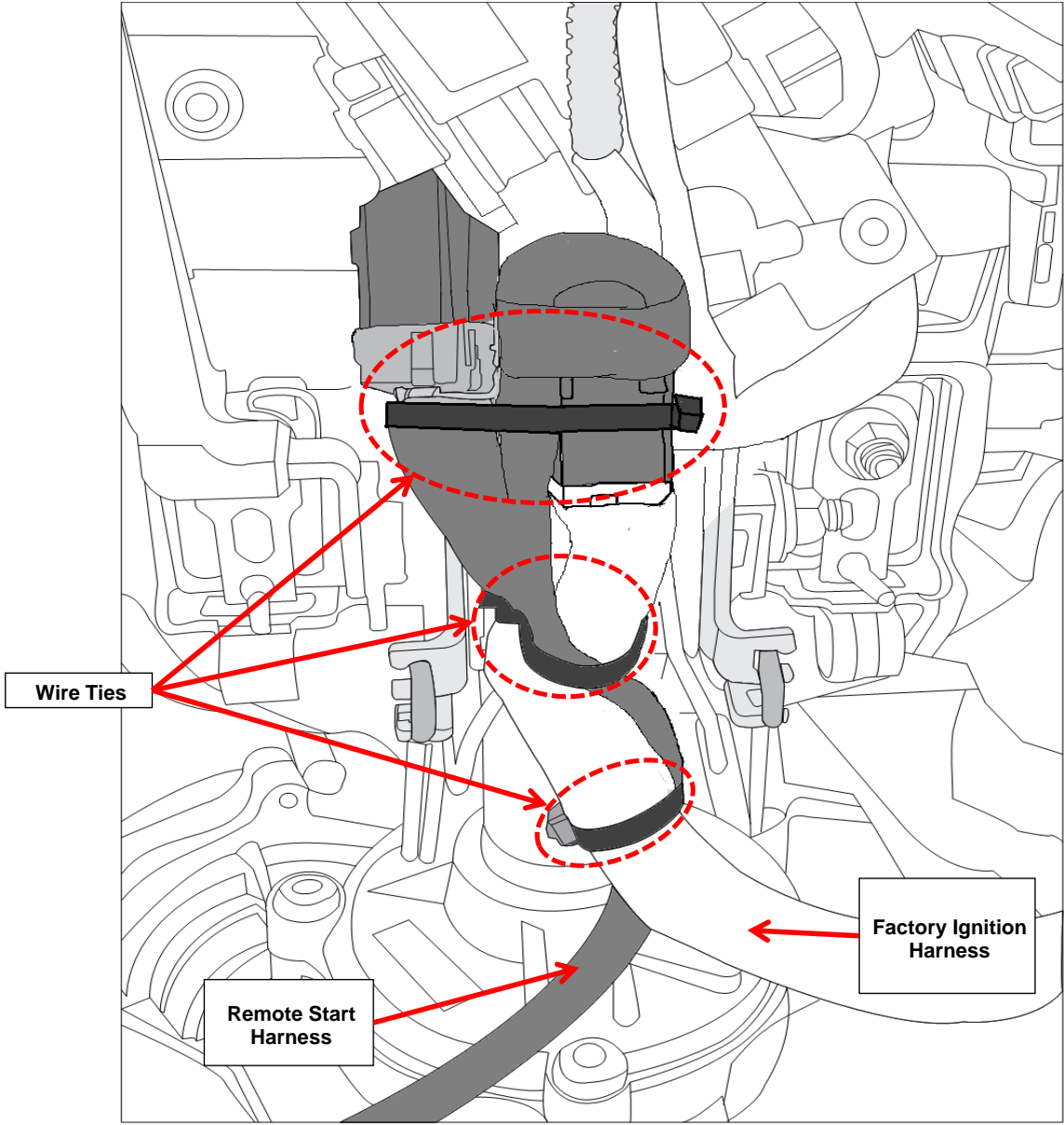
**Remote Start 6-Pin
Ignition Connectors**


N O T E


1. Unplug the Factory 6-Pin Female Connector from the Ignition Switch.
2. Route the Remote start Harness over through the Factory harness as shown above in right image.

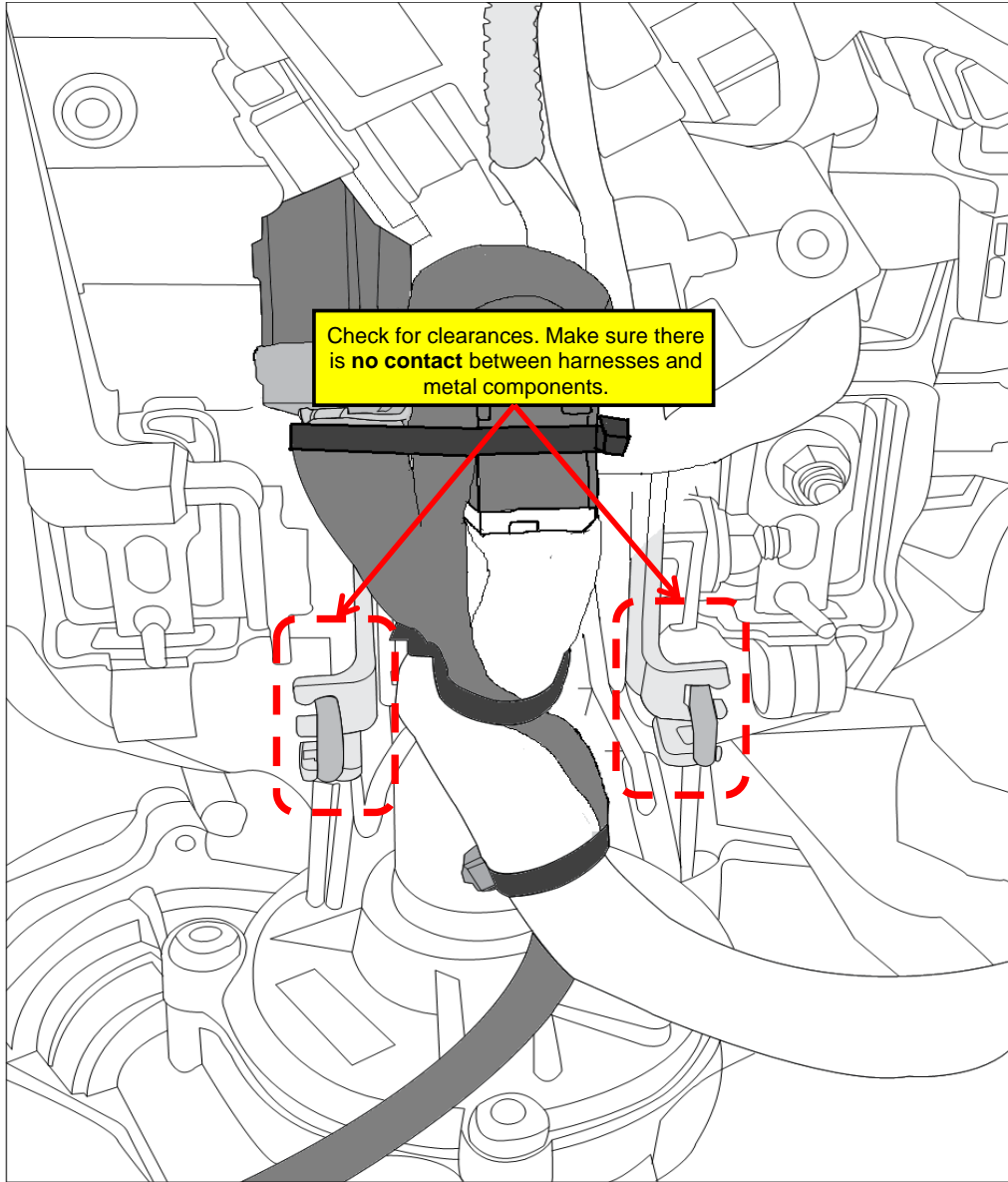
 **Caution:** Do not damage the Steering Column Shroud, Steering Wheel or Steering Column.





- NOT E**
-  **Caution:** Adjust the Remote Start Ignition Harness and Factory Ignition Harness as needed to make sure there are no rub or pinch areas or contact points with steering column components and the tilt mechanism / springs.
1. Make sure the steering column is **fully extended / tilted up and locked** in place before installing the three (3) wire ties.
 2. Make sure the Remote Start Harness is routed as shown.
 3. Using three (3) Wire Ties, secure the Remote Start Harness to the Factory Ignition Harness as shown.
 4. Trim excess Wire Tie material.

 **Caution:** To prevent the Remote Start 6-Pin Female Connector from accidentally disconnecting, ensure that the upper wire tie is **not pressing the connector locking tab inwards**. Adjust wire tie position if needed.




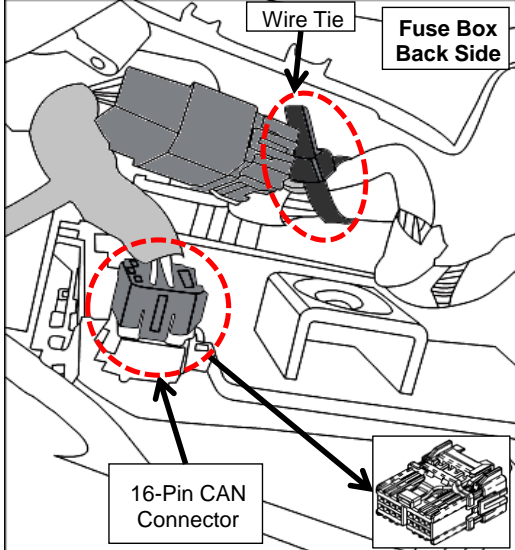
N
O
T
E

1. Move the Steering Column through it's full range of motion to ensure that Remote Start Harness and Factory Harness does not interfere with the vehicle components or make contact with sharp metal edges of steering column.
2. Make sure the steering column is fully extended / tilted up and locked in place.




Move the Steering Column through it's full range of motion to ensure that Remote Start Harness and Factory Harness does not interfere with vehicle components or make contact with sharp edges of steering column. Make sure the Remote Start Harness and Factory Harness do not contact any sharp metal parts in the steering column, including the tilt mechanism and springs. Readjust the ties/harnesses if necessary to prevent contact.


11  Wire Cutters

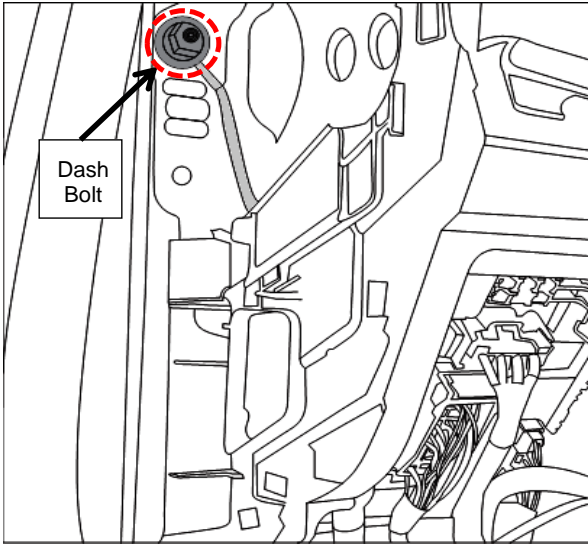


1. Route the 16-Pin CAN Connector and Harness behind the Fuse Box.
 2. Locate the factory 16-Pin Female CAN-Connector, found on the right hand side on the back of the Fuse box, as shown above.
 3. Disconnect the 16-Pin CAN Connector from the back side of the Fuse Box.
 4. Connect the corresponding Remote Start T-Harness Connector to the 16-Pin CAN Connector and Fuse Box (back side).
 5. Using one (1) Wire Tie, secure the 16-Pin CAN Connector to Vehicle Harness as shown.
 6. Trim excess Wire Tie material.

NOTE


 **CAUTION!** There is an identical 32-Pin Connector underneath the Fuse Box. Do not remove this connector.

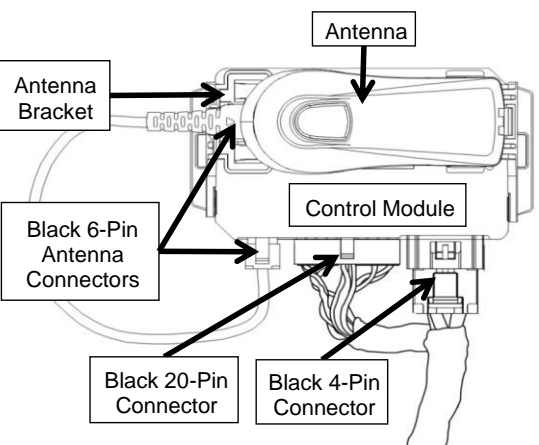
12  Ratchet, Torque Wrench, Extension, and 12 mm Socket



1. Remove the 12 mm bolt from the upper left dash, just to the left of the air vent as shown.
 2. Route the Ground Wire, across the front of the Fuse Box, as shown above, then up and over to the 12 mm Bolt hole.
 3. Insert the 12 mm Bolt into the Ground Wire Ring Terminal, then reinstall.
 4. Torque the 12 mm Bolt to:
 16.7 ~ 21.6 N.m (1.7 ~ 2.2 kgf.m, 12.3 ~ 15.9 lb-ft).


NOTE


13  Wire Cutters

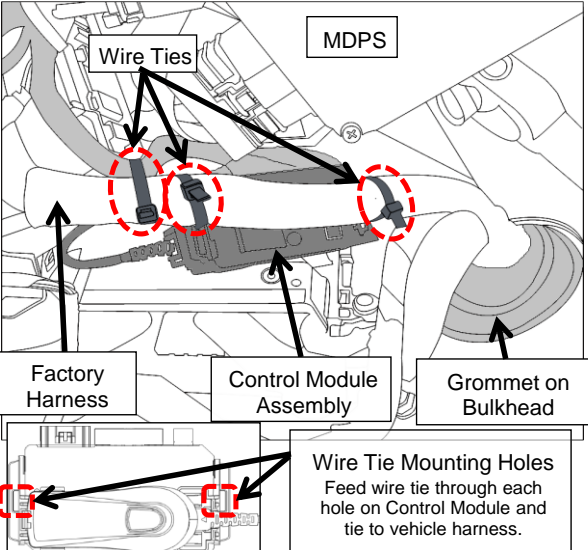


1. Connect the 20-Pin RES Connector (black) to the Control Module.
 2. Connect the 4-Pin RES Connector (black) to the Control Module.
 3. Verify the following:
 - Antenna Bracket is attached to Control Module.
 - Antenna is secured in bracket.
 - Both black 6-Pin connectors are attached to Antenna and Control Module.

NOTE


 Ensure that each Connector is fully seated in the Control Module and in the Antenna.

14  Wire Cutters


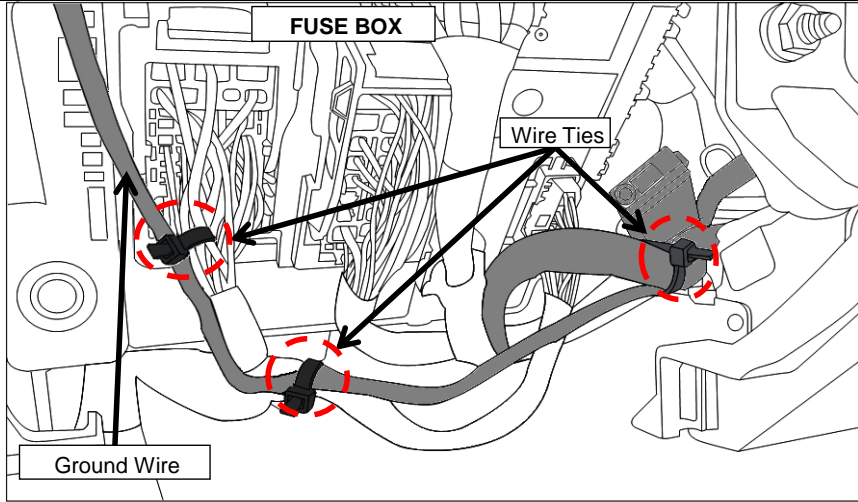



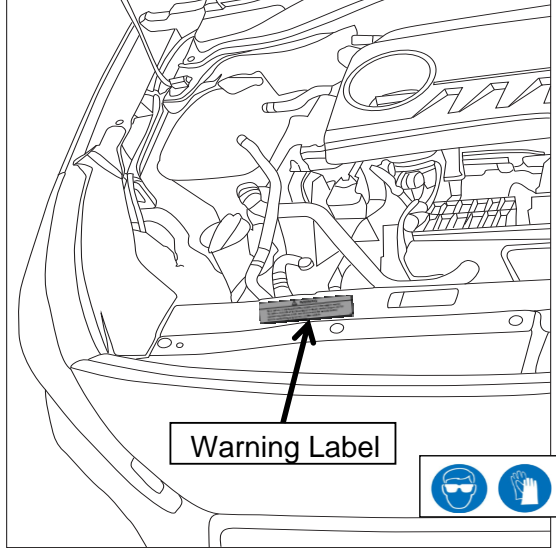

1. Position the Control Module Assembly (Control Module + Antenna + Antenna Harness + Antenna Bracket) close to the Grommet on Bulkhead, as shown.
 2. Using three (3) Wire Ties, secure the Control Module Assembly to left side of the Factory Harness as shown.
 3. Trim excess Wire Tie material.


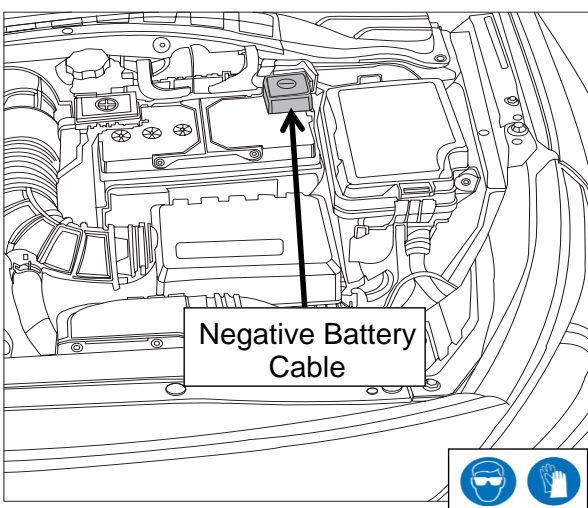

NOTE


 Ensure the Control Module Assembly is fully seated on the left side of Factory Harness. Ensure the Control Module Assembly does not interfere with the Steering Column Shaft.


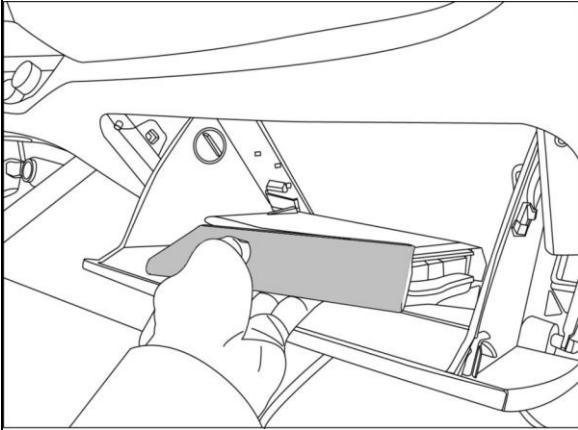
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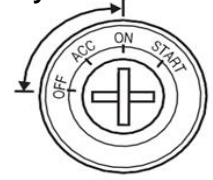



15	 Wire Cutters	
N O T E	<ol style="list-style-type: none"> Using three (3) Wire Ties, secure the Remote Start Ground Wire as shown. Trim excess Wire Tie material. 	

16	 Clean Cloth and 50/50 Mix of Isopropyl Alcohol (70%) and Water	
N O T E	<ol style="list-style-type: none"> Clean the left top surface of the Radiator Cover. <ul style="list-style-type: none"> - Ensure the surface is completely dry. Remove the Adhesive Liner from the Warning Label, then secure the label to the Radiator Cover as shown. 	
	<p>Ensure the surface is completely dry before installing the Warning Label. Ensure the label is aligned straight with the edge of the Radiator Cover and without air bubbles under the label.</p>	

17	 Ratchet, 10 mm Socket, Extension, and Torque Wrench	
N O T E	<ol style="list-style-type: none"> Reconnect the Negative Battery Cable. Torque to 4.0-6.0 N-m (0.4-0.6 kgf-m, 34.8-51.6 lb-in). Replace the vehicle's Negative Battery Cover. Make sure the Transportation Fuse is in the "ON" position. Replace the weather strip at dash area to allow Driver's Door to close properly. Close the Hood, Tailgate and all Doors. Test the LOCK / UNLOCK function using Factory Key Fob. 	
	<p>NOTE: If vehicle is not responding, carefully re-check all wiring connections. If the vehicle is still not responding, follow the Troubleshooting at the end of the instructions.</p>	




















18		
GO TO → Function Check		
N O T E	1. Perform the Function Check at the end of the Instructions.	

19		#2 Phillips Screwdriver
		
N O T E	1. Reinstall all removed parts in reverse order of disassembly. 2. Place the Quick Reference Guide and the Owner's Guide into the Glove Box. 3. Attach the Remote Start Fobs to each of the Factory Key Fob Rings.	








A		
Remote Start Transmitter Fob Pairing Procedure (not necessary for new installations - only needed if a fob is replaced)		
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Key 5X</p>  </div> <div style="text-align: center;"> <p>Remote Start Fob</p>  </div> </div>		
N O T E	<ol style="list-style-type: none"> 1) Open driver's door. 2) Insert the Key into the ignition. Turn the key from OFF to ON position five (5) 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. 	
<p>Note: The remote start key Fobs come paired to the system from the factory, and should not require re-pairing.</p> <p>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.</p>		

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Function Check

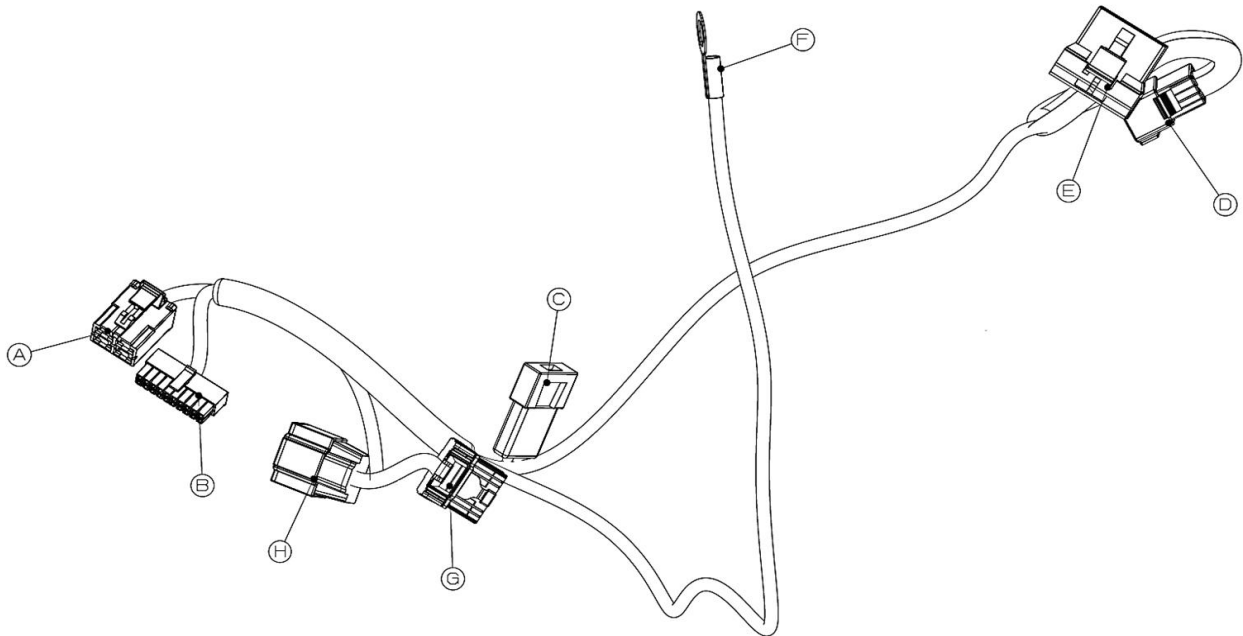
Issue / Concern		Items to be Checked	
	1. Press  button one time. (All doors, hood & trunk are closed).	Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all doors will LOCK.	
	1. Press  button 2 times. 2. Press  button 2 more times.	Transmitter Fob UNLOCK icon will flash, vehicle signal lights will flash, and Driver's door will UNLOCK. Transmitter Fob UNLOCK icon will flash, vehicle signal lights will flash, and all doors will UNLOCK.	
	1. Press  button one time. 2. Within 3 seconds, press and hold  button for 2 seconds.	Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all doors will LOCK. Transmitter Fob KEY icon will flash, the engine will crank and start, the vehicle signal lights will flash.	
	While the vehicle is running via remote start, 1. Press  button two (2) times. 2. Press  button two (2) additional times.	Transmitter Fob UNLOCK icon flash, vehicle signal light flashes twice and Driver's door will UNLOCK. Transmitter Fob UNLOCK icon flash, vehicle signal light flashes twice and All doors will UNLOCK.	
	While the vehicle is running via remote start, 1. Press  button one (1) time.	Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all doors will LOCK.	
	While the vehicle is running via remote start, 1. Press brake pedal.	The engine will shut down immediately.	
	While the vehicle is running via remote start, 1. Press and hold  button for two (2) seconds.	Transmitter Fob KEY icon will flash, and the engine will stop.	
	While the vehicle is running via remote start, 1. Open the hood.	The engine will stop.	
	While the vehicle is running via remote start, 1. Open any door.	The engine will stop after approximately thirty (30) seconds.	
	While the vehicle is running via remote start, 1. Open tailgate/trunk.	The engine will stop after approximately fifty (50) seconds.	

Troubleshooting

Item to be Checked		Result	
	The vehicle does not LOCK by using the Remote Start Key Fob.	Check the vehicle status 1. Engine is OFF. 2. Accessory function is OFF. 3. All doors are closed. 4. Hood and tailgate/trunk are closed.	
	The vehicle LOCKS, UNLOCKS, but does not START (no cranking sound).	Ensure the Valet Mode is OFF. (Refer to Owner's Guide for details.) Ensure that the buttons are properly activated. Buttons may not recognize a command if the LED icon light is still flashing. The installation might be faulty. Call Technical Support on Page 1.	
	The vehicle LOCKS, UNLOCKS, but does not START and there is CRANKING sound from the engine.	Check that the vehicle battery is not dead. The installation might be faulty. Call Technical Support on Page 1.	
	The remote does NOT LOCK / UNLOCK and does not START the vehicle. The Remote LED lights flash when buttons are pressed.	The Transmitter Fob is not paired to the Control Module. Follow the Remote Start Fob Pairing Procedure in the Installation Instructions.	
	The LED icon lights on the Transmitter Fob does not light up.	The Transmitter Fob batteries are dead. Refer to the Owner's Guide for instructions to change the batteries.	
	The Engine turns off when entering the vehicle, while running under Remote Start mode.	Vehicle will shut off automatically after thirty (30) seconds, if key is not in IGN ON position, as noted in the Owner's Guide in the "Driving Off" section. Verify the key is in the ignition ON position within 30 seconds after opening the doors. Verify the brake pedal is pressed after the key is in ignition ON position.	
	Engine does not turn off immediately when the brake pedal is pressed after starting engine with remote.	Verify Driving OFF Mode after remote starting. Engine does not turn off after Driving Off Mode even when the brake pedal is pressed.	

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Wiring Diagram



A FEMALE 4P Module CONNECTOR

		MAKER	KET
		HOUSING	MG610047-5
		TERMINAL	ST730288-3
NO	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC
1	IGN-1	IG2 Output	AVS 3.0
2	IGN-2	START Output	AVSS 0.85
3	IGN-3	IG1 Output	AVS 3.0
4	IGN-4	(+12V) BATT	AVS 3.0

D MALE 6P Ignition CONNECTOR

		MAKER	KUM
		HOUSING	PH772-06025
		TERMINAL	MT021-23230 MT021-23330
NO	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC
2	IGN-2	IG2 Output	AVS 3.0
3	IGN-3	START Output	AVSS 2.0
4	IGN-4	IG1 Output	AVS 3.0
5	IGN-5	(+12V) BATT	AVS 3.0

G FEMALE 15P CAN CONNECTOR

		MAKER	KUM
		HOUSING	HK115-16011
		TERMINAL	TK105-00100
NO	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC
5	CAN-5	B CAN-H	AVSS 0.3
6	CAN-6	B CAN-L	AVSS 0.3

B FEMALE 20PIN Input/Output CONNECTOR

		MAKER	MOLEX
		HOUSING	43025-2000(B)
		TERMINAL	43030-0001
NO	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC
1	(-IGN)	GND	AVSS 0.5
2	(-IGN)	GND	AVSS 0.5
19	CAN-HIGH	B CAN-H	AVSS 0.3
20	CAN-LOW	B CAN-L	AVSS 0.3

E FEMALE 6P Ignition CONNECTOR

		MAKER	KUM
		HOUSING	PH776-06025
		TERMINAL	MT025-23230 MT025-23330
NO	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC
2	IGN-2	IG2 Output	AVS 3.0
3	IGN-3	START Output	AVSS 2.0
4	IGN-4	IG1 Output	AVS 3.0
5	IGN-5	(+12V) BATT	AVS 3.0

H MALE 15P CAN CONNECTOR

		MAKER	KUM
		HOUSING	HK111-16011
		TERMINAL	TK101-00100
NO	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC
5	CAN-5	B CAN-H	AVSS 0.3
6	CAN-6	B CAN-L	AVSS 0.3

C 2P FUSE (30A)

NO	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC
1	30F-1	To Main	AVS 3.0
2	30F-2	To Vehicle	AVS 3.0

F Ground Terminal

		MAKER	KET
		Part No.	ST710286-3
NO	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC
1	GND	Ground	Structure: 12mm, Thickness: 0.25mm [03-21-000] 04010