KIA Genuine Accessories

KIA

Vehicle Model	SOUL	**Accessory**	Remote Engine Start-Key Start
Model Year	2014~	**Difficulty**	(B)
Part No.	B2F60 AQ500		

- Accessory Installation

Note: Difficulty stated above reflects the minimum level of expertise required to install the accessory.
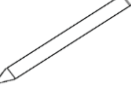
(A) Customer   (B) Dealer Technician   (C) Master Technician

> **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 does NOT have SMART KEY (PUSH BUTTON IGNITION SYSTEM).**

Instructional Symbols / Definitions

Denotes warnings that may lead to serious physical injury or vehicle damage.

Denotes cautions to be taken to avoid physical injury or electronic component damage.

Denotes cautions to be taken to avoid vehicle and component damage.

Denotes quality processes to be checked prior to moving to the next step.

Denotes specific tools that are necessary to complete the step.

NOTE Denotes instructional steps necessary to complete the process.

Denotes safety equipment required to be used such as a mask, safety glasses, gloves, and hearing protection.

Mask

Safety Glasses

Gloves

Hearing Protection

Basic Required Hand Tools

Ratchet	**10 mm Socket**	**12 mm Socket**
Specialty Tool or 8 mm Socket	**Extension**	**Wire Cutter**
Pliers	**Phillips Screwdriver**	**Trim Removal Tool**
Torque Wrench		

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.

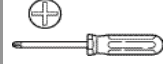To prevent stress on the remote start wire harness, ensure the tilt steering column is fully extended, if equipped.

Ensure the transportation fuse is properly installed before performing the function check on page 12.
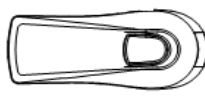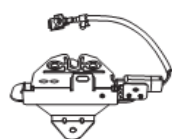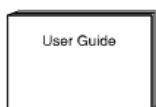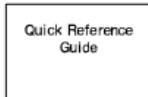
Technical Support
For Authorized Dealers - 855-225-7344
Hours : 9:00 a.m. - 5:00 p.m. EST Monday - Friday

KIA Genuine Accessories

Kit Overview

①	②	③	④
Main Controller Module	Remote Transmitter	Antenna	Antenna Harness
B2F60 AQ500MC	B2F60 AQ500RT	B2F60 AQ500AT	B2F60 AQ500AH
⑤	⑥	⑦	⑧
Main Harness	Hood Latch Assembly	Cable tie	T-tap
B2F60 AQ500MH	81130 B2010		
⑨	⑩	⑪	
Installation Guide	User Guide	Quick Reference Guide	

No.	Qty.	Description	No.	Qty.	Description
1	1	Main Control Module	7	20*	Cable tie
2	2	Remote Transmitter	8	2	Female T-Tap
3	1	Antenna	9	1	Installation Guide
4	1	Antenna Harness	10	1	User Guide
5	1	Main Harness	11	1	Quick Reference Guide
6	1	Hood Latch Assembly			

* 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.

Spade Terminal Pointed _Up_

INCORRECT

Spade Terminal Pointed _Down_

INCORRECT

CORRECT
Spade Terminal _CENTERED_ Inside Connector
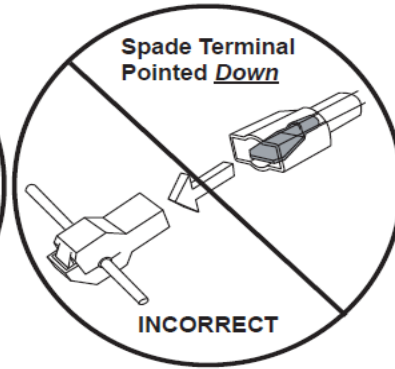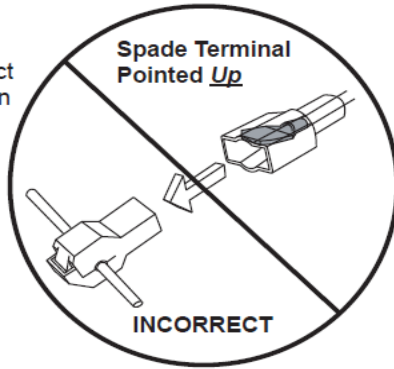
1. Place T-Tap on vehicle wire.
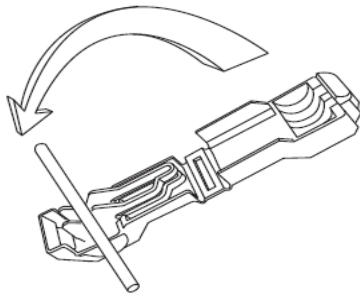
2. Using pliers, close and crimp T-Tap around vehicle wire.
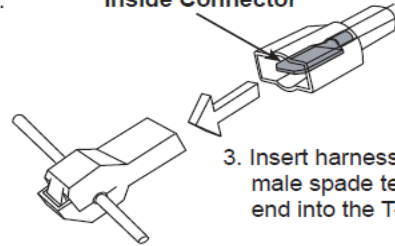
3. Insert harness wire with male spade terminal end into the T-Tap.

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

NO GOOD
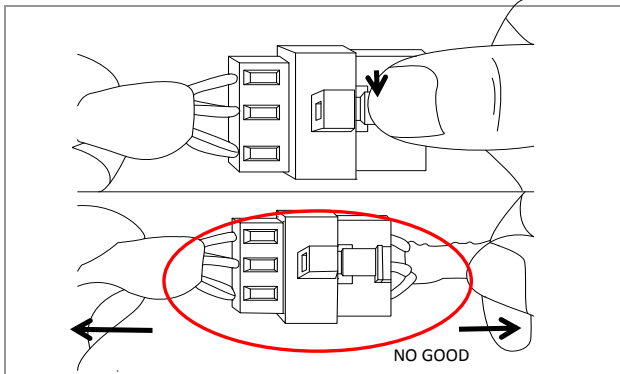
CLICK

Disconnecting Connectors

When disconnecting connectors, press the lock tab and pull apart by grasping the connectors. DO NOT PULL ON WIRES.
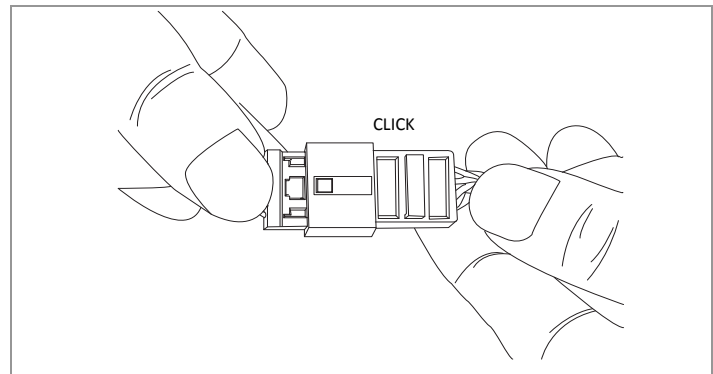
Lock Connectors

When locking connectors, listen for a click indicating they are securely locked.
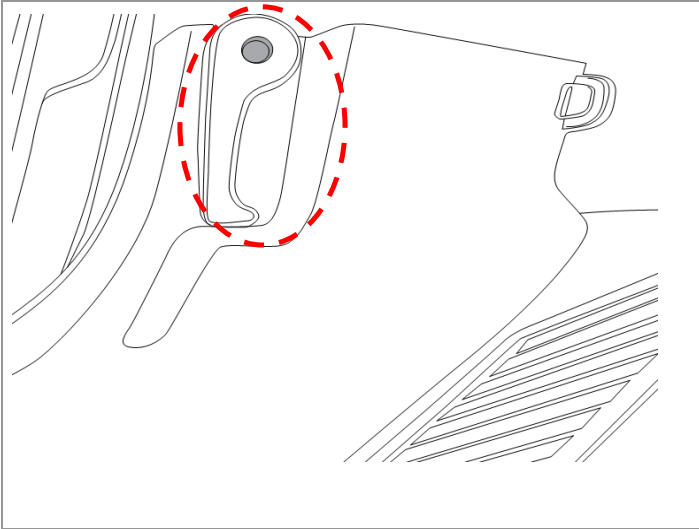
		1

NOTE
1. Locate hood lever on the driver's kick panel side as shown above.
2. Pull the hood lever to open the hood.
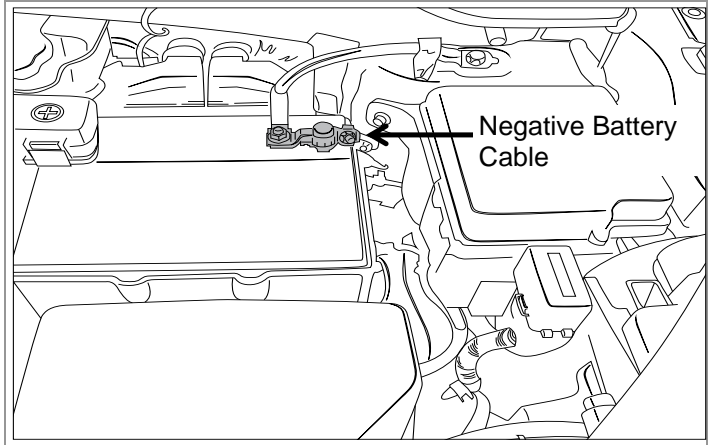
Negative Battery Cable

Ratchet and 10 mm Socket		2

NOTE
1. Using a 10 mm Socket and Ratchet, 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 injury and damage to the vehicle may occur.

Side Panel Cover

Pressure Clips

Fuse Panel Cover

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 four (4) pressure clips.

Store removed parts in a safe location to prevent damage.

Phillips Screws

Phillips Screwdriver		4

NOTE
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 two (2) phillips screws from the bottom of panel as shown.

	Trim Removal Tool	5

NOTE	1. Using a trim removal tool, carefully pry outward to release the one (1) retaining tab on the side and six (6) pressure clips. 2. Remove the OBDII connector from the panel. 3. Disconnect any remaining connectors, if equipped.

Store removed parts in a safe location to prevent damage.

	Ratchet, Extension and 10 mm Socket	6

NOTE	1. Using a Ratchet, Extension and 10 mm Socket, remove the four (4) 10 mm bolts securing the knee bolster plate. 2. When reinstalling the knee bolster, use a torque wrench, extension, and 10 mm socket, tighten four (4) 10 mm bolts to: 11.76~14.7N.m (1.2~1.5kgf.m, 8.8~11.0 lb.ft).

WARNING! Knee bolster plate may be sharp.

	Phillips Screwdriver and Trim Removal Tool	7

NOTE	1. Using a Phillips Screwdriver, remove the three (3) 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. Using Trim Removal Tool, pull down on bottom trim cover to separate and remove the lower steering column shroud from the vehicle to provide access to the 6-pin ignition switch connector. 4. Adjust the tilt steering wheel to the fully extended position and lock into place.

**NOTE : To access screws, insert key and turn to the ACC position, in order to prevent steering wheel from locking.
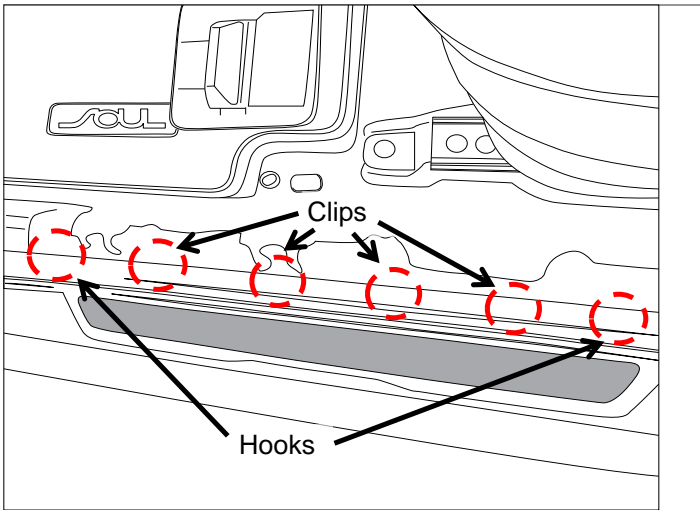
Clips

Hooks

| ⊶ | Trim Removal Tool | 8 |

| N O T E | 1. 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 four (4) clips and two (2) hooks. |

| ⚠ | *** CAUTION! Be careful not to damage the driver's side front door step sill trim when removing!** |

Press Specialty Tool or 8 mm Socket onto Tabs

Pry Lever with Trim Removal Tool

Pressure Clips
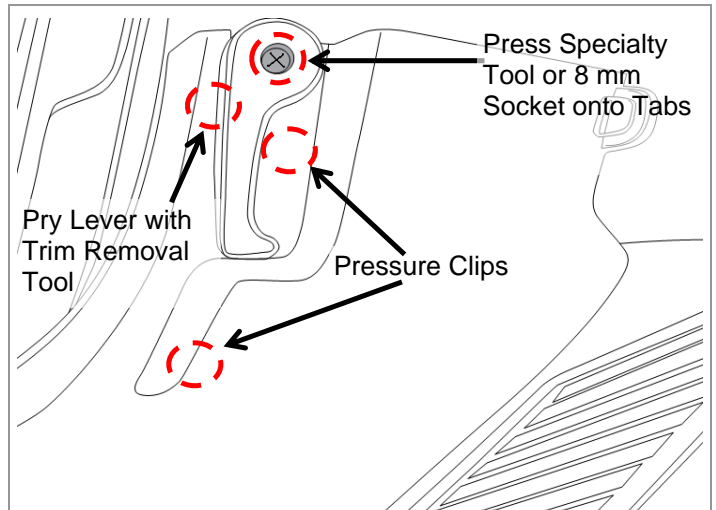
| ⊶ | Trim Removal Tool, Specialty Tool or 8 mm Socket | 9 |

| N O T E | 1. Using a Specialty Tool or 8 mm socket, remove the hood latch release handle by compressing the center post tabs while simultaneously prying the handle away from the kick panel with a Trim Removal Tool. If Specialty Tool is not available, use 8 mm socket to release handle.
2. Carefully pull the weatherstrip away from the side of the driver's kick panel.
3. Remove driver's kick panel by pulling inwards to release the two (2) pressure clips. |

| ⚠ | *** CAUTION! Be careful not to damage the hood lever or the driver's kick panel when removing!** |

4-Pin Female Brake Switch Connector

Brake Switch
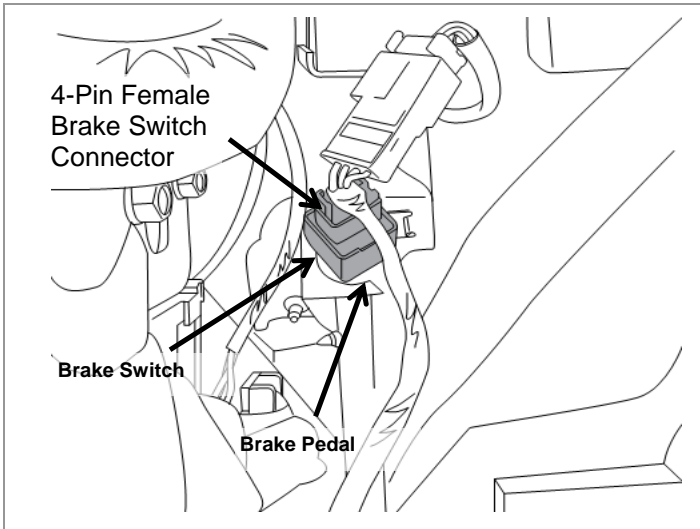
Brake Pedal

| ⊶ | | 10 |

| N O T E | 1. Find the factory female 4-pin brake switch connector, located on the brake pedal assembly as shown above.
2. Disconnect the factory female 4-pin brake switch connector and plug in the corresponding remote start harness connector. |

| ⚠ | **CAUTION! Routing Remote Start wire harness over steering column may cause interference. Make sure there is adequate clearance between Remote Start wire harness and steering components.** |

Fuse Box Top side

24-Pin Female CAN Connector

Fuse Box Back side

Fuse Box Bottom Side
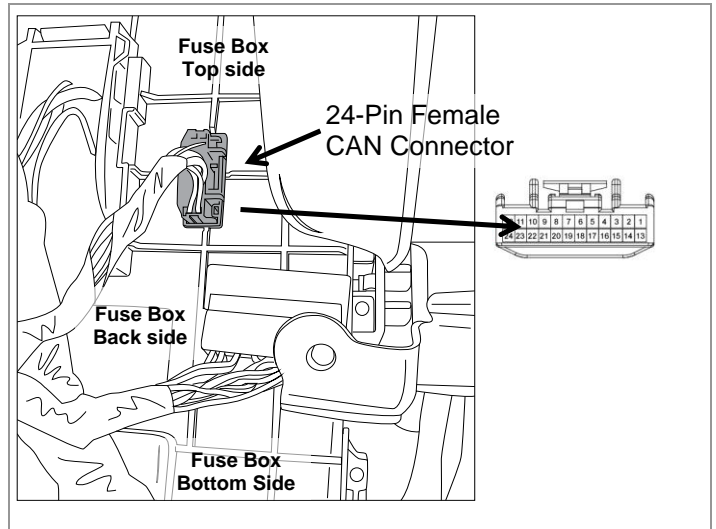
| ⊶ | | 11 |

| N O T E | 1. Find the factory 24-pin female CAN connector on the back side of fuse panel.
2. Disconnect the factory 24-pin female CAN connector and plug in the corresponding remote start harness connector. |

Hood Release Assembly

MC11 : Tachometer
PIN 25
Blue/Black Wire

Terminal End View
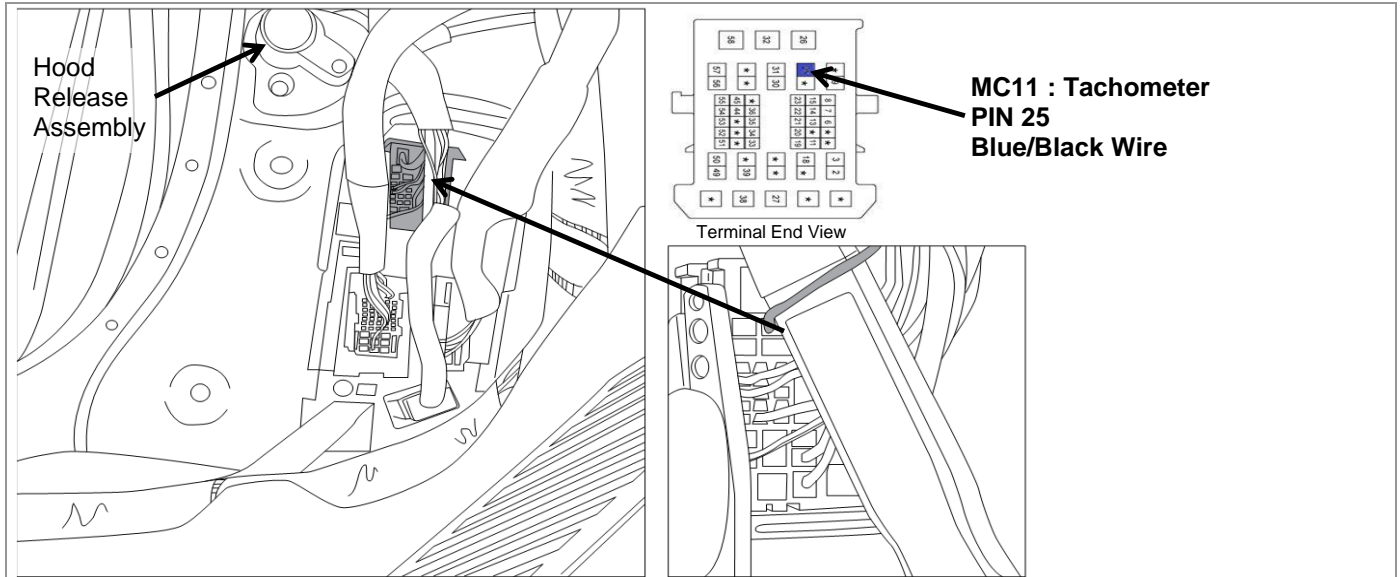
| ⚙ | Pliers | 12 |

| N O T E | 1. Locate the engine tachometer wire located on the driver's side kick panel, close to the hood release assembly. The circuit colors are: Vehicle side (Blue/Black) = Remote start harness (Yellow/Black)
2. Using one (1) provided T-Tap, install on the Blue/Black wire in pin 25 of connector MC11, use pliers to close and crimp the T-Tap to the wire.
3. Route Yellow/Black wire of remote start harness to the T-Tap, insert the spade end of the remote start harness to the T-Tap connector.
4. Please refer to Page 3 for further T-Tap installation details. |

⚠️ **Ensure the correct pin location is identified. There may be several wires of the same or similar color.**
Ensure the male spade terminal is inserted into T-Tap properly.
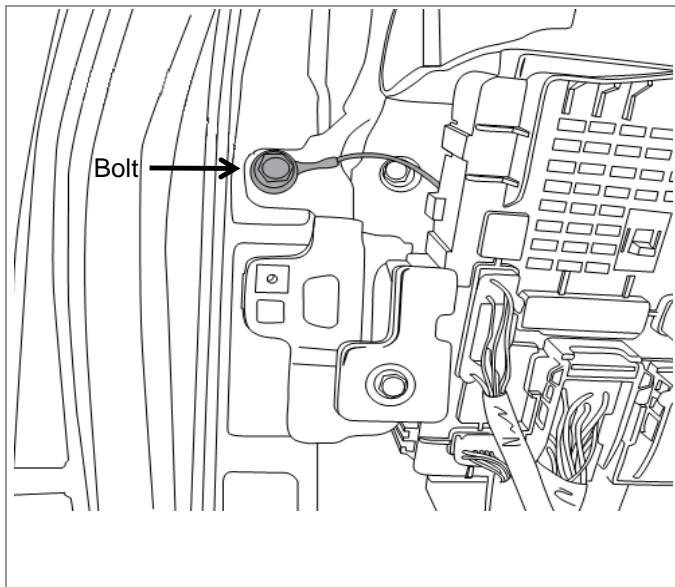
Bolt

| ⚙ | Ratchet, Torque Wrench, Extension, 12 mm Socket | 13 |

| N O T E | 1. Using Ratchet, Extension and 12 mm Socket, remove 12 mm bolt located below the A-pillar adjacent to the fuse box at the dash end cap area as shown above and then position GROUND wire of remote start harness with ring terminal over the bolt.
2. Using a torque wrench, extension and 12 mm socket, tighten the bolt to 16.7 ~ 21.6 N.m (1.7 ~ 2.2 kgf.m,12.3 ~ 15.9 lb-ft). |

White 16-Pin Connector

Opaque 6-Pin Connector

Blue 6-Pin Connector

Black 4-Pin Connector
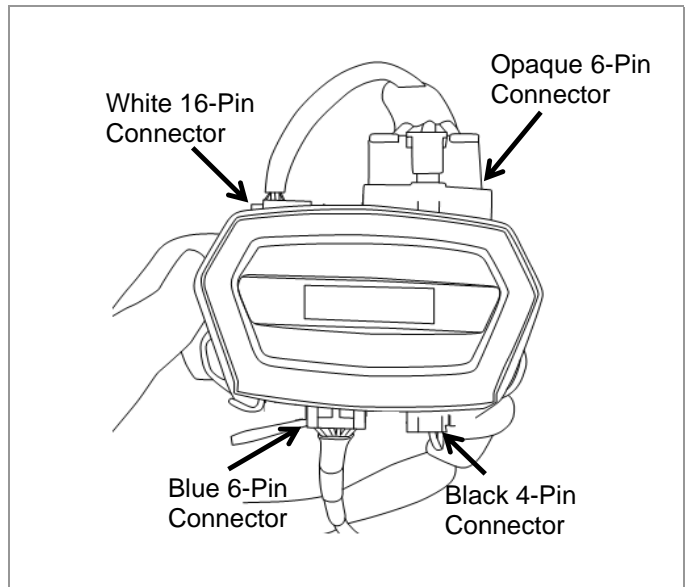
| ⚙ | | 14 |

| N O T E | 1. Connect the 6-pin Remote Start harness connector (Opaque color) to the Remote Start module.
2. Connect 4-pin Remote Start harness connector (Black connector) to the Remote Start module.
3. Connect 16-pin Remote Start harness connector (White connector) to the Remote Start module.
4. Connect 6-pin Antenna connector (Blue connector) to the Remote Start module.
5. Locate the 6-pin factory ignition switch connector on the steering column, disconnect and plug in the corresponding Remote Start T-harness with the 6-pin connectors. |

⚠️ **Pay attention not to press antenna button.**
Ensure that each connector locks into position on the Remote Start module and ignition switch module.

Antenna Button

Black 6-Pin Connector

Cable Tie (2)

Remote Start Module
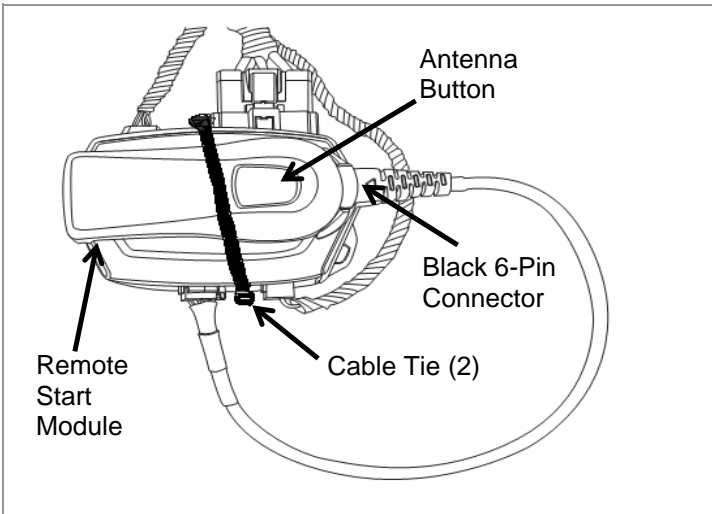
| ⌐━○ | Wire Cutter | 15 |

NOTE
1. Remove film from double sided tape on antenna and adhere the antenna on top of main module as shown above.
2. Connect 6-pin antenna connector (Blue connector) to the main module.
3. Connect 6-pin antenna connector (Black connector) to the antenna. Make sure all the connectors are snapped in securely.
4. Join two (2) cable ties together and Install around module and antenna to secure both parts together.
5. Using Wire Cutter, trim off excess wire ties.

⚠️ **Pay attention not to press antenna button.**
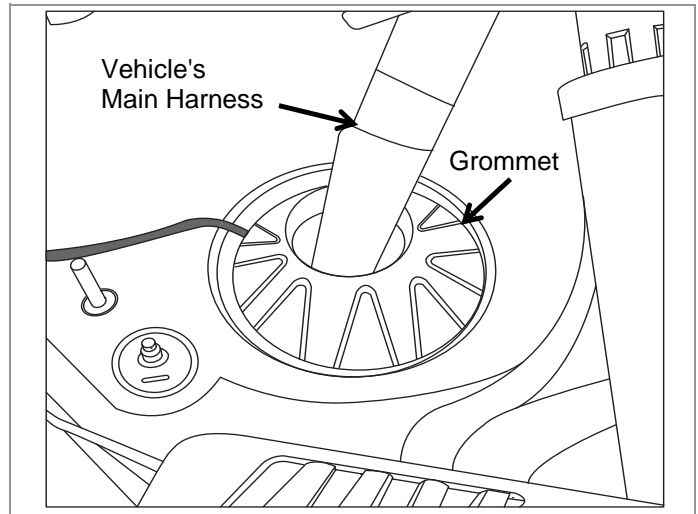
Vehicle's Main Harness

Grommet

| ⌐━○ | | 16 |

NOTE
1. The long wire of Remote Start harness is for the hood safety switch.
2. Locate vehicle's main harness which passes through the bulkhead to the vehicle's engine compartment as shown above.
3. Slightly push the rubber grommet towards the engine compartment to make a gap for the hood safety switch harness, insert the hood safety switch harness into the gap.

⚠️ *** Warning! Do not push rubber grommet excessively. If rubber is missing, vehicle will be non-waterproof and fumes may enter the interior of the vehicle.**
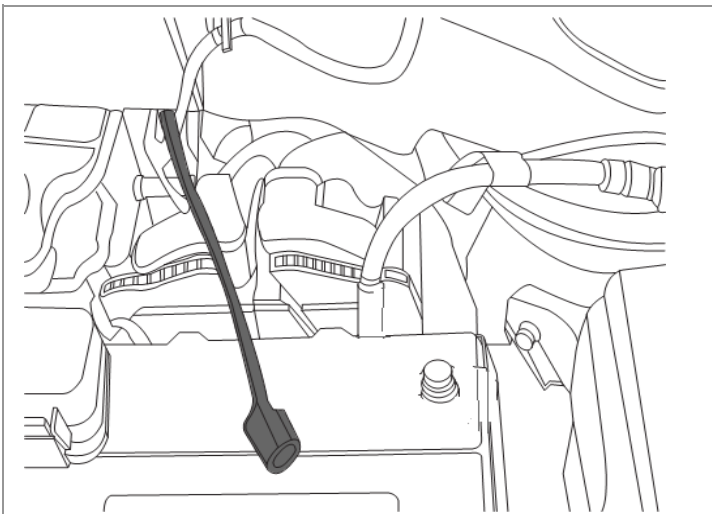
| ⌐━○ | | 17 |

NOTE
1. After feeding hood safety switch wire through the grommet, route to the engine component and continue to pull wire through. Please leave approximately twelve (12) inches of length at interior side of vehicle.
2. Make sure the rubber grommet is properly reseated back into the bulkhead.

⚠️ *** Warning! Do not push rubber excessively. If rubber is missing, vehicle will be non-waterproof and fumes may enter the interior of the vehicle.**

Main Controller Module Bottom

Cable Tie

Cable Tie

"Cable Tie" run through the hole on Main Control Module and tie with vehicle harness.
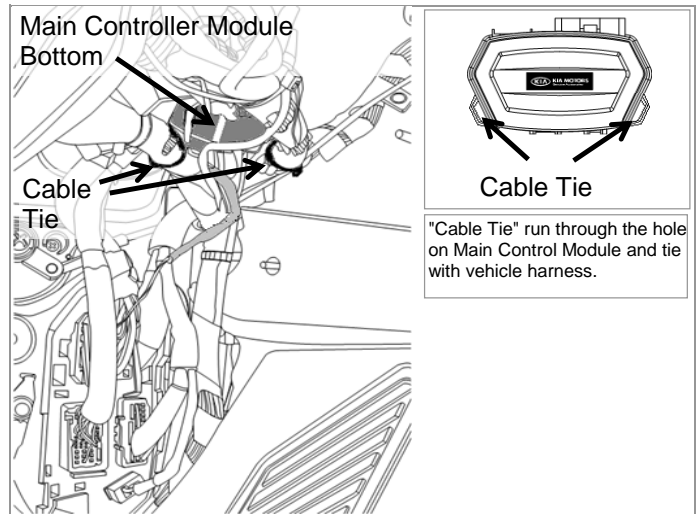
| ⌐━○ | Wire Cutter | 18 |

NOTE
1. Position "Main Controller Module" behind the FUSE BOX and then use two (2) cable ties to attach to the factory harness as shown above.
2. Using wire cutters, trim off excess cable ties.

⚠️ **Pay attention not to press antenna button.**
Make sure wire harnesses does not interfere with driver's feet.

Fuse Box

Cable Tie

MDPS
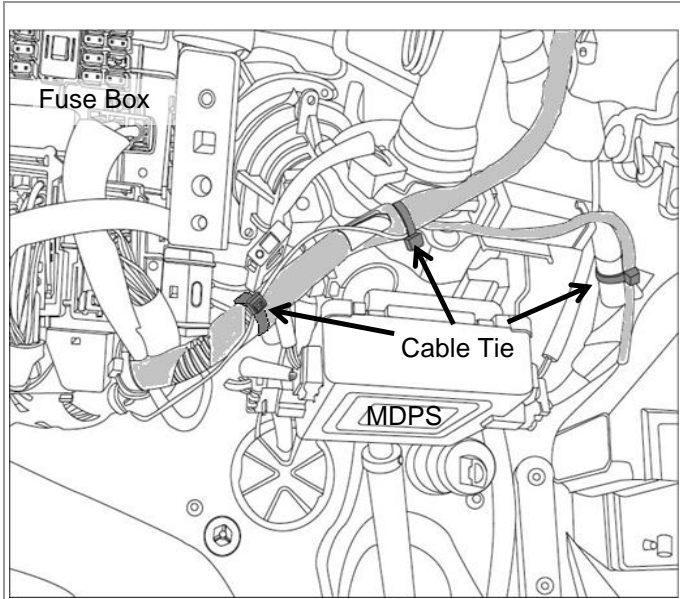
Wire Cutter	19

N O T E
1. Install three (3) cable ties as shown above.
2. Using wire cutters, trim off excess cable ties.

⚠ **Make sure wire harnesses does not interfere with driver's feet.**

Vehicle's Harness

Grommet

Cable Tie

Remote Start Harness
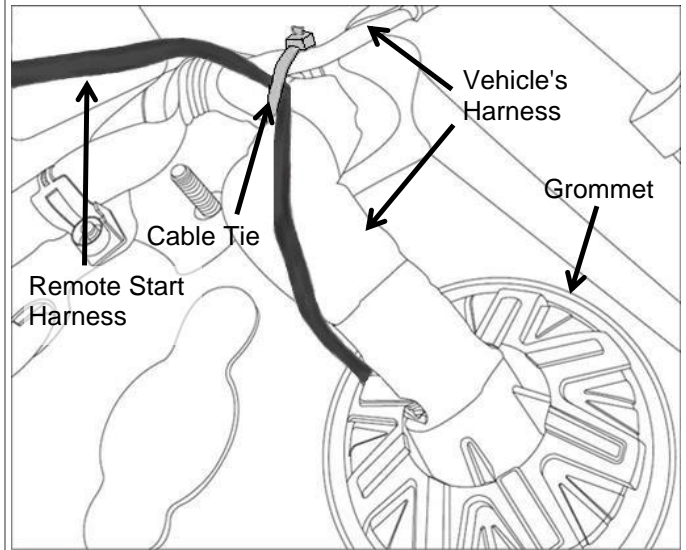
Wire Cutter	20

N O T E
1. Install cable tie as shown above.
2. Using wire cutters, trim off excess cable tie.

⚠ **Make sure wire harnesses does not interfere with driver's feet.**
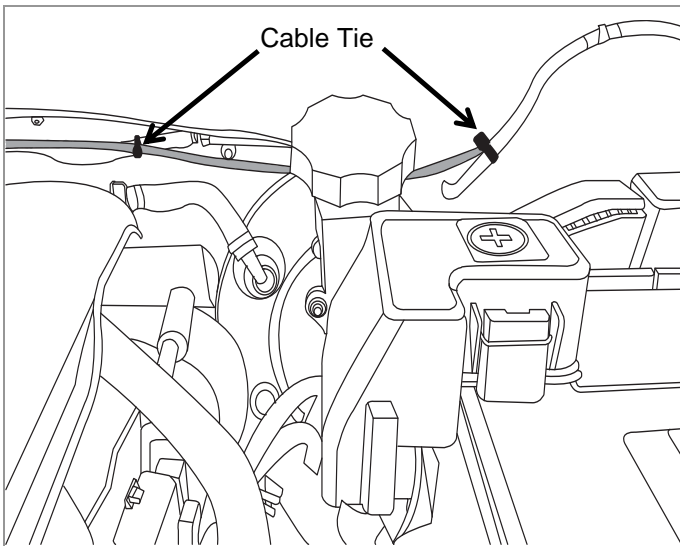
Cable Tie

	21

N O T E
1. Route the hood safety switch harness beside the factory harness located along driver's side of the vehicle's bulkhead.
2. Using two (2) cable ties, loosely secure the hood safety switch harness to the existing factory harness.

⚠ **Leave ties loose to adjust length of harness as necessary later.**
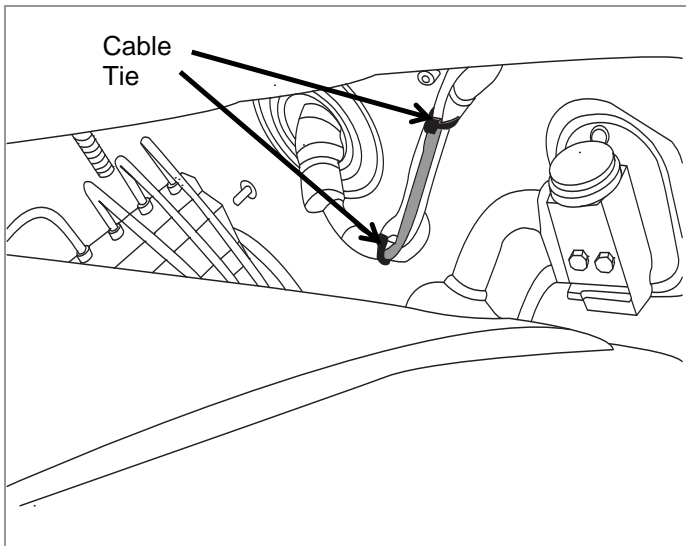
Cable Tie

	22

N O T E
1. Continue to route the hood safety switch harness along the passenger's side of the bulkhead.
2. Using two (2) cable ties, loosely secure the harness as shown above.

⚠ **Do not attach to engine wiring.**
Leave ties loose to adjust length of harness as necessary later.

Cable Tie

23
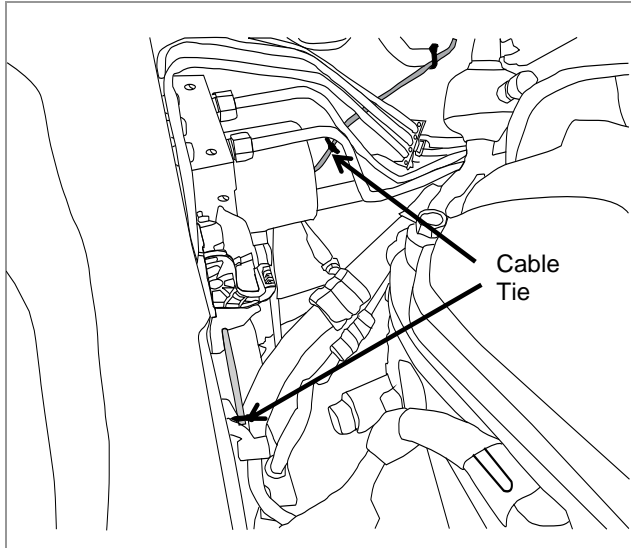
N O T E

1. Route the harness to the passenger's side of the vehicle, behind the vehicle's strut tower as shown above.
2. Using two (2) cable ties, loosely secure the hood switch harness to the existing factory harness.

⚠ **Do not attach to engine wiring.**
Leave ties loose to adjust length of harness as necessary later.

Cable Tie

24

N O T E

1. Continue routing the hood safety switch harness around the passenger side strut tower, across the passenger's headlamp and up to the hood latch assembly.
2. Using four (4) cable ties, loosely secure the hood safety switch harness to the existing factory harness next to the vehicle's harness anchor points.

⚠ **Caution: Hood safety switch wiring should not be close to engine drive belt. Leave ties loose to adjust length of harness as necessary later. Do not cable tie to yellow colored factory harness.**

Cable Tie

Wire Cutter **25**

N O T E

1. Do not attach to yellow wiring (Headlamp wire) harness.
2. Using one (1) cable tie, secure the hood safety switch harness to the plastic loop on the passenger side head lamp as shown above.
3. Using wire cutters, trim off excess cable tie.

Bolt

Pliers, Ratchet, Torque Wrench, Extension and 10 mm Socket **26**

N O T E

1. Disconnect the coolant drain tube clip from hood latch bracket using pliers.
2. Using a ratchet, extension and 10 mm socket, remove the three (3) 10 mm bolts and remove the vehicle's hood latch, hood release cable and install the provided hood latch and switch assembly from the kit.
3. Using a torque wrench, extension and 10 mm socket, reinstall the bolts removed in step above and tighten to 9~10.8N.m (0.7~1.1kgf.m, 5.1~8.0 lb.ft).
4. Reconnect coolant drain tube clip.

⚠ **If latch is not properly installed and torqued to specification, hood may open suddenly while driving and could cause an accident.**

Cable Holder

	Wire Cutter	**27**

NOTE
1. Reinstall the hood latch release cable to the kit hood latch assembly.
2. Attach cable holder clips to core support as shown above.
3. Adjust harness as necessary and tighten all loose fitted cable ties in steps: 21, 22, 23 and 24.
4. Trim off excess cable ties with wire cutters.

1. Reconnect the negative battery cable.

2. Test LOCK/UNLOCK function using Factory Key FOB.

3. Close all doors, trunk and hood.

4. Test LOCK/UNLOCK function using Remote Start KEY FOB.

5. Test remote engine start using Remote Start KEY FOB.

		28

NOTE
1. 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 13.

Reinstall all panels in reverse order of removal.

Please refer to step 6 for torque specification for the four (4) knee bolster bolts.

	Torque Wrench	**29**

NOTE

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 flash 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 flash twice and **Driver's door** will unlock. 2. Remote Unlock LED flash, vehicle signal light flash twice and **All doors** will unlock.
✔ 1. Press ⊛ button one time 2. Then within 3 seconds, press and hold ⊛ button for 2 seconds.	1. Remote Lock LED flash vehicle signal light flash 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 flash 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 flash twice and **Driver's door** will unlock. 2. Remote Unlock LED flash, vehicle signal light flash twice and **All doors** will unlock.
✔ 1. Press ⊛ button one time (**After starting engine with remote**)	1. Remote Lock LED flash, vehicle signal light flash 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**)	1. The Engine will shut down after 30 seconds from door opening.
✔ 1. Open trunk (**After starting engine with remote**)	1. The Engine will shut down after 50 seconds from trunk opening.

2. Valet mode setting checklist

Items To Be Checked	Results Of The Check
✔ Valet mode * Vehicle Condition ① Engine off ② IGN ON(KEY ON) ③ Press and hold brake pedal 1. Press and hold ⊛ button for 2 seconds	■ Valet mode ON - Signal lights flash ONCE ■ Valet mode OFF - Signal lights flash TWICE Note : When the system is in the valet mode, the remote starter will not start the engine. Note : The remote will still lock and unlock the vehicle in valet mode Note : Each time you press the button for 2-seconds, option is toggled. Note : Default is "Valet mode OFF"

KIA Genuine Accessories
Troubleshooting

	Issue / Concern	Item To Be Checked
✔	The vehicle does not LOCK when using the Remote Start Key Fob.	■ Check the vehicle status. ① Engine is OFF ② KEY is not in the ignition ③ All Doors are Closed ④ Hood and Trunk are Closed

✔	The vehicle LOCKS, UNLOCKS, but does not START (no cranking sound).	■ Make sure the Valet mode is OFF.
		  Please refer to Function Check,
		  No.2 Valet Mode setting checklist.
		■ Improper button activation procedure.
		  Please refer to Function Check,
		  No.1 Basic function checklist.
		■ After verifying the Valet mode is OFF and the button is 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.	■ Confirm the tachometer wire is correctly installed, please refer to step 12 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 does NOT LOCK / UNLOCK. and does not START the vehicle. The Remote LED lights flash when buttons are pressed.	■ The remote is not pairing to the vehicle. Please see Remote Start Fob Pairing Procedure of Page 14.
✔	The LED light on the remote fob does not light up.	■ Change the batteries in the remote fob. Please refer to the user's guide for details.

✔	Engine turns off when entering vehicle after starting engine with remote.	■ Vehicle will shut off after 30 seconds of opening door if key is not in IG ON position as is the owner's guide.
		  Please refer to Owner's Guide
		  - Page 4. Remote Starting your Vehicle, Driving Off.
		■ 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.

✔	Hood does not Latch properly while closed.	■ Loosen hood latch bolts, move latch up and retighten bolts.

KIA Genuine Accessories (Remote Start Fob Pairing Procedure)

Key 5X
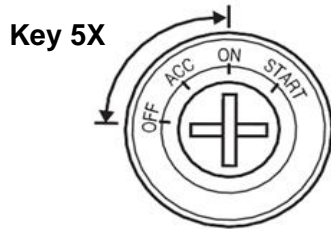
Remote Start Fob 1X

	1

NOTE
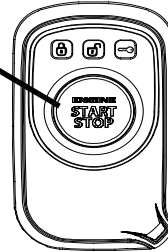
1) Open driver's door.
2) Insert the Key into the ignition.
   Turn the key from OFF to ON position five (5) times within 5 seconds outside car (3-6 ft. from the car).
3) Within 5 seconds of step 2, Press ⊞ button on the 1st Remote Start Fob one time.
4) After registering the 1st Remote Start Fob, within another 5 seconds,
   Press ⊞ button on the next 2nd Remote Start Fob one time.
5) Verify that both fobs are functioning correctly by performing the function checklist.

Note:
 System can recognize up to three (3) remotes, the kit includes two (2) remote FOBs.
 If any new Remote Start Fob for the replacement or additional 3rd Remote Start Fob is needed to be registered later,
 the registration procedure should be taken from the 1st Remote Start Fob again.

Wiring Side View

FEMALE 16 PIN Input/Output CONNECTOR (TO MAIN CONTROL MODULE)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	HOOD/I	HOOD OPEN/CLOSE Sensing	03	BROWN
2	KEY/I	KEY Insert Sensing	022	GRAY/WHITE
3	NOT USED	-	-	-
4	NOT USED	-	-	-
5	FOOTBRAKE/I	BRAKE PEDAL Sensing	022	WHITE/BLACK
6	ENGINE/I	TACHOMETER Sensing	022	YELLOW/BLACK
7	HORN/O	HORN Output	022	GREEN/WHITE
8	NOT USED	-	-	-
9	NOT USED	-	-	-
10	NOT USED	-	-	-
11	NOT USED	-	-	-
12	NOT USED	-	-	-
13	NOT USED	-	-	-
14	NOT USED	-	-	-
15	NOT USED	-	-	-
16	NOT USED	-	-	-

FEMALE 6 PIN IGNITION CONNECTOR (TO MAIN CONTROL MODULE)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	IGH-1	IG2 Output	2	WHITE
2	IGH-2	START Output	2	YELLOW
3	IGH-3	IG1 Output	2	GREEN
4	IGH-4	GND	08, 03	BLACK
5	IGH-5	+12V BATTERY	2	RED
6	IGH-6	NOT USED	-	-

FEMALE 4 PIN CAN CONNECTOR (TO MAIN CONTROL MODULE)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	CAN H		022	WHITE
2	CAN L		022	BLACK
3	NOT USED	-	-	-
4	NOT USED	-	-	-

FEMALE 4 PIN BRAKE CONNECTOR (TO C127 or C227)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	BK-1	EXTRA CIRCUIT	05	BLACK
2	BK-2	EXTRA CIRCUIT	05	BLACK
3	BK-3	EXTRA CIRCUIT	05	BLACK
4	BK-4B	Stop Signal Electronic Modul	05	WHITE/BLACK

MALE 4 PIN BRAKE CONNECTOR (TO C127 or C227)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	BK-1	EXTRA CIRCUIT	05	BLACK
2	BK-2	EXTRA CIRCUIT	05	BLACK
3	BK-3	EXTRA CIRCUIT	05	BLACK
4	BK-4A	Stop Signal Electronic Modul	05	WHITE/BLACK

MALE 6 PIN IGNITION CONNECTOR (TO M35 IGNITION SWITCH)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	IGH-1	START Output	2	BLUE
2	IGH-2	IG2 Output	2	PINK
3	IGH-3	IG1 Output	2	BROWN
4	IGH-4	+12V BATTERY	2	ORANGE
5	IGH-5	KEY Sensing	2	LIGHT BLUE
6	IGH-6	EXTRA CIRCUIT	2	GRAY

FEMALE 6 PIN IGNITION CONNECTOR (TO M35 IGNITION SWITCH)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	IGH-1	START Output	2,2	BROWN
2	IGH-2	IG2 Output	2,2	GREEN, ORANGE
3	IGH-3	IG1 Output	2,2	YELLOW, BLUE
4	IGH-4	+12V BATTERY	2	WHITE, PINK
5	IGH-5	KEY Sensing	2,2	RED, LIGHT BLUE
6	IGH-6	EXTRA CIRCUIT	2,2	GRAY

FEMALE 24 PIN CONNECTOR (TO IP-G SMART JUNCTION BOX)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	SJB-1	EXTRA CIRCUIT	03	BLACK
2	SJB-2	EXTRA CIRCUIT	03	BLACK
3	SJB-3	EXTRA CIRCUIT	03	BLACK
4	SJB-4	EXTRA CIRCUIT	03	BLACK
5	SJB-5	EXTRA CIRCUIT	03	BLACK
6	SJB-6	EXTRA CIRCUIT	03	BLACK
7	SJB-7	EXTRA CIRCUIT	03	BLACK
8	SJB-8	EXTRA CIRCUIT	03	BLACK
9	SJB-9	EXTRA CIRCUIT	03	BLACK
10	SJB-10	EXTRA CIRCUIT	03	BLACK
11	SJB-11	CAN L	03	BLACK
12	SJB-12	CAN H	03	WHITE
13	SJB-13	EXTRA CIRCUIT	03	BLACK
14	SJB-14	EXTRA CIRCUIT	03	BLACK
15	SJB-15	EXTRA CIRCUIT	03	BLACK
16	SJB-16	EXTRA CIRCUIT	03	BLACK
17	SJB-17	EXTRA CIRCUIT	03	BLACK
18	SJB-18	EXTRA CIRCUIT	03	BLACK
19	SJB-19	EXTRA CIRCUIT	03	BLACK
20	SJB-20	EXTRA CIRCUIT	03	BLACK
21	SJB-21	EXTRA CIRCUIT	03	BLACK
22	SJB-22	EXTRA CIRCUIT	03	BLACK
23	SJB-23	EXTRA CIRCUIT	03	BLACK
24	SJB-24	EXTRA CIRCUIT	03	BLACK

MALE 24 PIN CONNECTOR (TO IP-G SMART JUNCTION BOX)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	SJB-1	EXTRA CIRCUIT	03	BLACK
2	SJB-2	EXTRA CIRCUIT	03	BLACK
3	SJB-3	EXTRA CIRCUIT	03	BLACK
4	SJB-4	EXTRA CIRCUIT	03	BLACK
5	SJB-5	EXTRA CIRCUIT	03	BLACK
6	SJB-6	EXTRA CIRCUIT	03	BLACK
7	SJB-7	EXTRA CIRCUIT	03	BLACK
8	SJB-8	EXTRA CIRCUIT	03	BLACK
9	SJB-9	EXTRA CIRCUIT	03	BLACK
10	SJB-10	EXTRA CIRCUIT	03	BLACK
11	SJB-11	CAN L	03	BLACK
12	SJB-12	CAN H	03	WHITE
13	SJB-13	EXTRA CIRCUIT	03	BLACK
14	SJB-14	EXTRA CIRCUIT	03	BLACK
15	SJB-15	EXTRA CIRCUIT	03	BLACK
16	SJB-16	EXTRA CIRCUIT	03	BLACK
17	SJB-17	EXTRA CIRCUIT	03	BLACK
18	SJB-18	EXTRA CIRCUIT	03	BLACK
19	SJB-19	EXTRA CIRCUIT	03	BLACK
20	SJB-20	EXTRA CIRCUIT	03	BLACK
21	SJB-21	EXTRA CIRCUIT	03	BLACK
22	SJB-22	EXTRA CIRCUIT	03	BLACK
23	SJB-23	EXTRA CIRCUIT	03	BLACK
24	SJB-24	EXTRA CIRCUIT	03	BLACK

MALE 1 PIN T-tap CONNECTOR (TO Female T-tap at MC11)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	Ttap*1	Engine Sensing	022	YELLOW/BLACK

FEMALE 1 PIN T-tap CONNECTOR (TO MC11)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	Ttap*1	Engine Sensing		RED

T-tap : 2ea

FEMALE 6 PIN CONNECTOR (TO HOOD CONNECTOR) (TO HOOD LOCK Assembly)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	HD-1	GND	03	BLACK
2	HD-2	HOOD Sensing	03	BROWN

MALE 6 PIN CONNECTOR (TO M35 Ignition Key, ILL & Door Warning Switch)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	KH-1	EXTRA CIRCUIT	03	BLACK
2	KH-2	EXTRA CIRCUIT	03	BLACK
3	KH-3	EXTRA CIRCUIT	03	BLACK
4	KH-4	EXTRA CIRCUIT	03	BLACK
5	KH-5	KEY Sensing	03	BLACK
6	KH-6	Key ILL Control	03	BLACK

FEMALE 6 PIN CONNECTOR (TO M35 Ignition Key, ILL & Door Warning Switch)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	KH-1	EXTRA CIRCUIT	03	BLACK
2	KH-2	EXTRA CIRCUIT	03	BLACK
3	KH-3	EXTRA CIRCUIT	03	BLACK
4	KH-4	EXTRA CIRCUIT	03	BLACK
5	KH-5	KEY Sensing	03	BLACK
6	KH-6	Key ILL Control	03	BLACK

MALE 12 PIN CONNECTOR (TO M40-R Clock Spring)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	CR-1	EXTRA CIRCUIT	03	BLACK
2	CR-2	EXTRA CIRCUIT	03	BLACK
3	CR-3	EXTRA CIRCUIT	03	BLACK
4	CR-4	EXTRA CIRCUIT	03	BLACK
5	CR-5	EXTRA CIRCUIT	03	BLACK
6	CR-6	EXTRA CIRCUIT	03	BLACK
7	CR-7	EXTRA CIRCUIT	03	BLACK
8	CR-8	EXTRA CIRCUIT	03	BLACK
9	CR-9	EXTRA CIRCUIT	03	BLACK
10	CR-10	EXTRA CIRCUIT	03	BLACK
11	CR-11	EXTRA CIRCUIT	03	BLACK
12	CR-12	HORN Output	03	GREEN/WHITE

FEMALE 12 PIN CONNECTOR (TO M40-R Clock Spring)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AVS/AVSS	COLOR
1	CR-1	EXTRA CIRCUIT	03	BLACK
2	CR-2	EXTRA CIRCUIT	03	BLACK
3	CR-3	EXTRA CIRCUIT	03	BLACK
4	CR-4	EXTRA CIRCUIT	03	BLACK
5	CR-5	EXTRA CIRCUIT	03	BLACK
6	CR-6	EXTRA CIRCUIT	03	BLACK
7	CR-7	EXTRA CIRCUIT	03	BLACK
8	CR-8	EXTRA CIRCUIT	03	BLACK
9	CR-9	EXTRA CIRCUIT	03	BLACK
10	CR-10	EXTRA CIRCUIT	03	BLACK
11	CR-11	EXTRA CIRCUIT	03	BLACK
12	CR-12	HORN Output	03	GREEN/WHITE

FEMALE 6 PIN CONNECTOR (TO MAIN CONTROL MODULE) (TO ANTENNA RECEIVER)

CAV	CIRCUIT NAME	CIRCUIT DESCRIPTION	AWG	COLOR
1	+H2		ULD54T #26	RED
2	GND		ULD54T #26	BLACK
3	SHIELD		SHIELD	
4	TX		ULD54T #26	WHITE
5	+5V		ULD54T #26	ORANGE
6	RX/TX_Center		ULD54T #26	BLUE

MALE 6 PIN CONNECTOR (TO ANTENNA RECEIVER) — wire legend

1.RED 2.WHT 3.ORG 4.YEL 5.GND 6.BLUE