













KIA Genuine Accessories

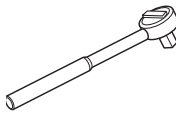
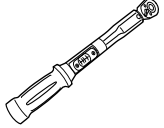
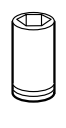
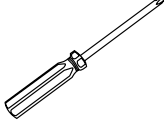
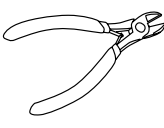
Vehicle Model	Sorento V6	Accessory	Tow Hitch Harness Kit
Model Year	2014~	Difficulty	(B)
Part No.	1U061 ADUS0		

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

Instructional Symbols / Definitions

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

Basic Required Hand Tools

				
Ratchet	Torque Wrench	10mm Socket	#2 Phillips Head Screwdriver	Diagonal Cutters

Specialty Required Tools:

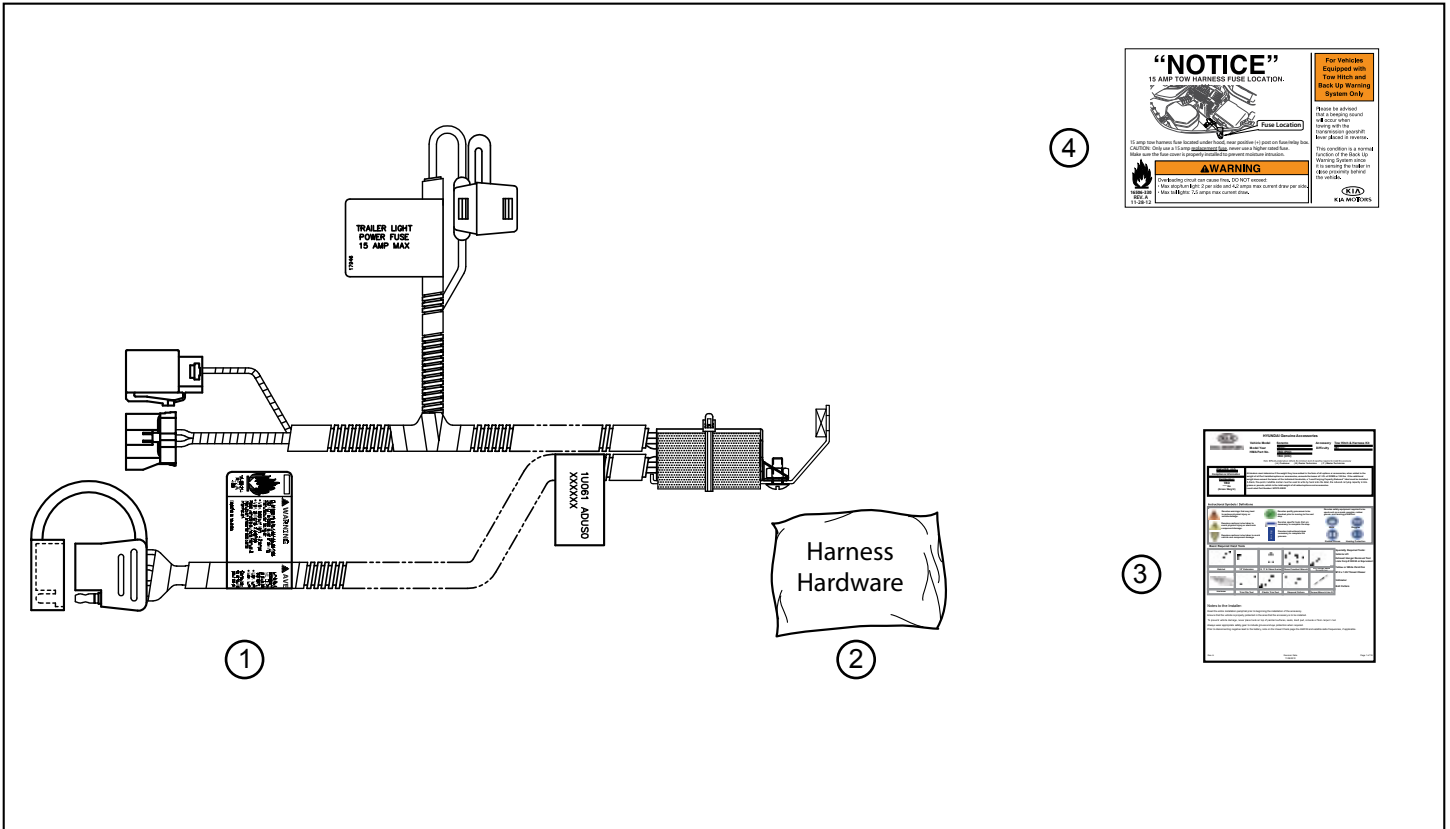
- Vehicle Lift
- Test Light or Voltmeter

Notes to the Installer:

- Read the entire installation pamphlet 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 negative lead to the battery, note on the Visual Check page the AM/FM and satellite radio frequencies, if applicable.



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Kit Overview



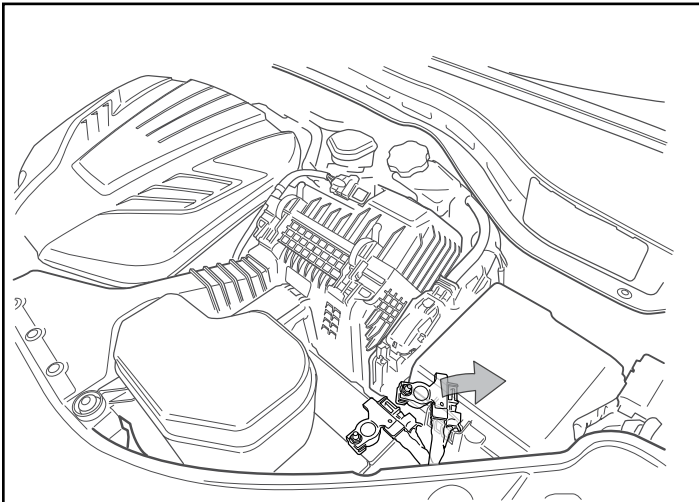
No.	Qty.	Description
1	1	Harness
2	1	Harness Hardware
3	1	Instructions
4	1	Fuse Location Card



Harness Hardware Kit Overview

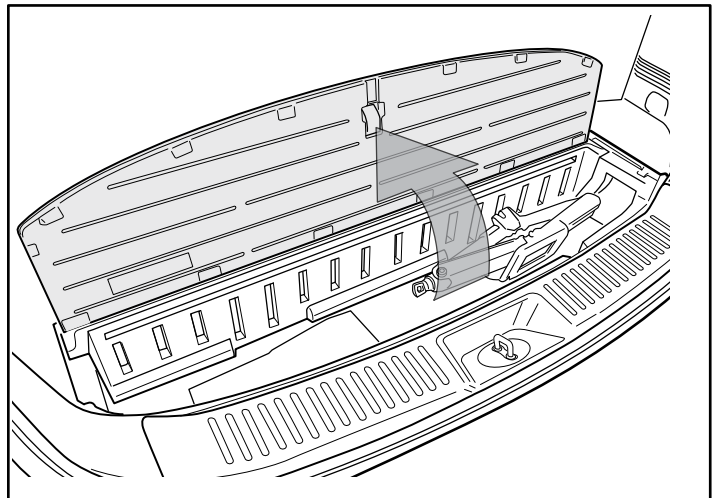
A	B
	
4 Cable tie, 8.5"	1 M6 Bolt


Hardware Kit Total
5

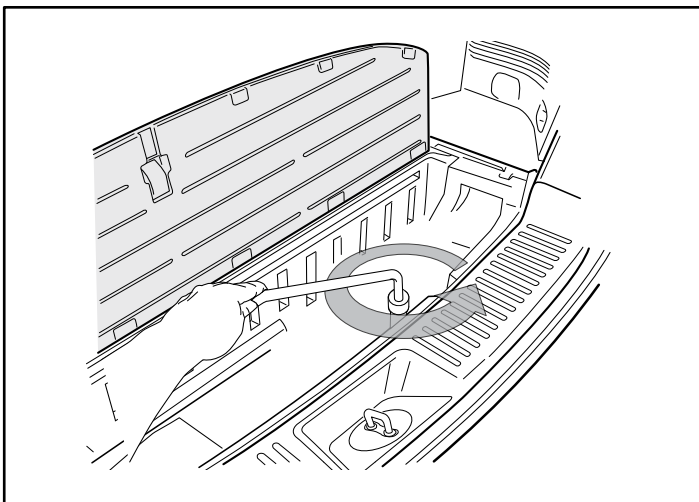
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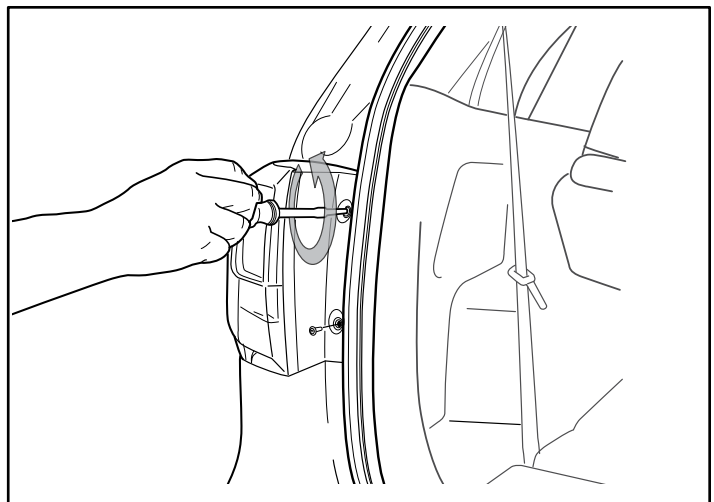
	10mm Socket, Ratchet and Vehicle Lift	1
NOTE	Place vehicle on vehicle lift. Use lift later as needed to work underneath the vehicle. Open rear hatch before disconnecting battery as rear hatch uses electric release mechanism. Record any pre-set stations (if applicable). Using a 10mm socket and ratchet, disconnect and isolate the vehicle's negative battery cable.	
	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. Adhere to shop lift safety standards	




		2
NOTE	Open the top of the rear storage compartment.	

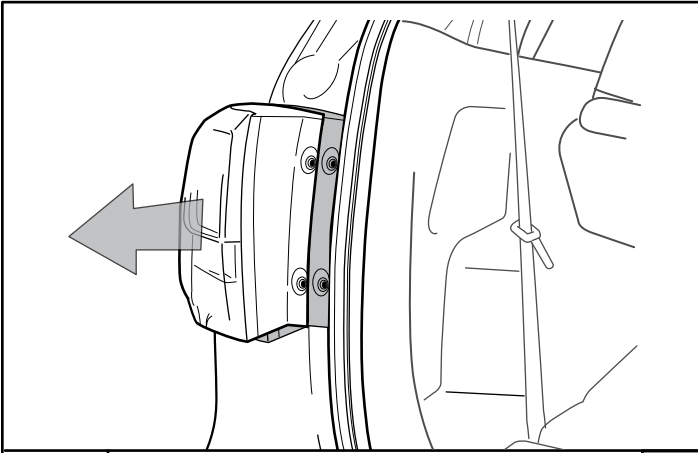


		3
NOTE	Locate the vehicle's spare tire release. Using the vehicle lug wrench and socket extension, lower and remove the spare tire.	



	#2 Phillips Screwdriver	4
NOTE	Using a #2 phillips screwdriver, remove the two (2) screws from the driver side tail lamp assembly.	

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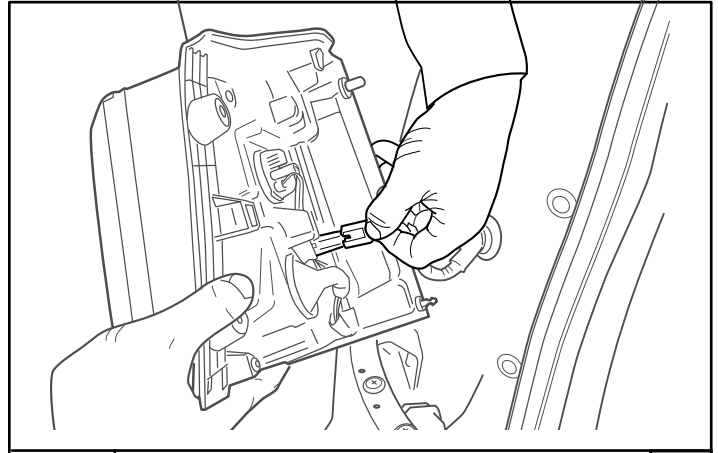
5

NOTE

Pull directly back to remove the tail lamp assembly.



CAUTION: Be careful not to damage or scratch the tail lamp assembly or vehicle.



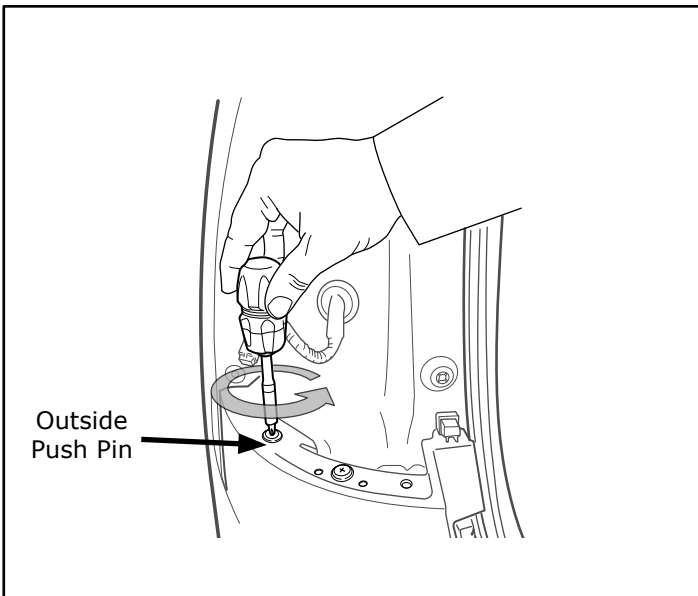
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NOTE

Disconnect the vehicle harness from the tail lamp assembly by pressing the locking tab, as shown, and carefully set aside.



Do not scratch the tail lamp assembly or damage the release tab.

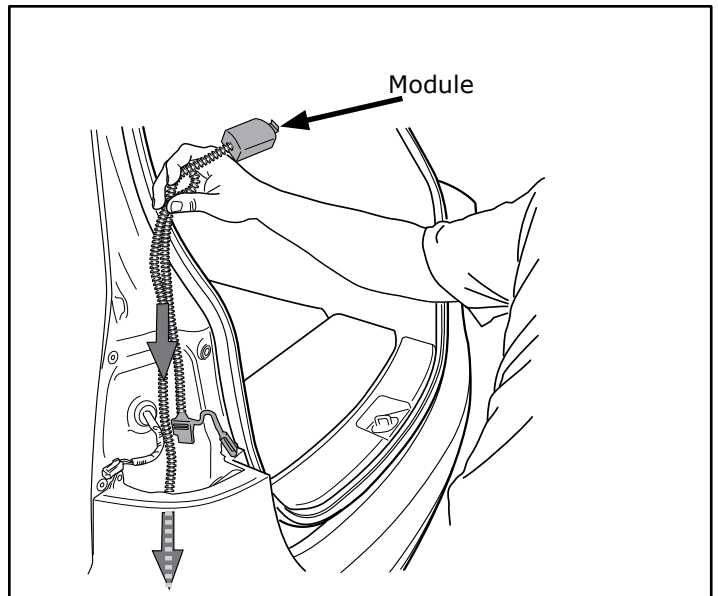


#2 Phillips Screwdriver

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NOTE

Using a #2 phillips screwdriver, remove the one plastic push pin as shown and discard.

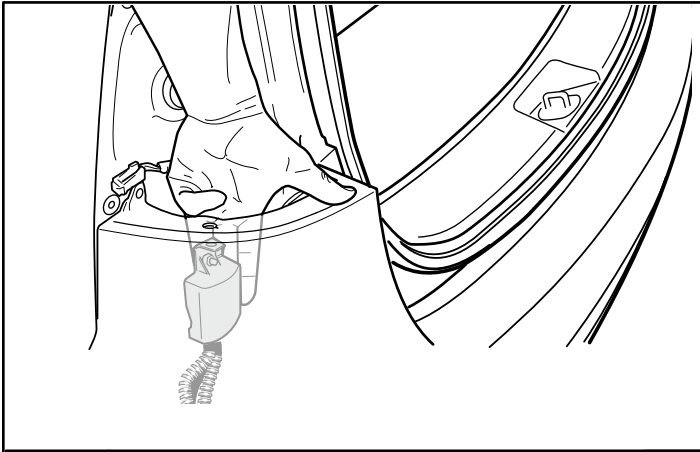


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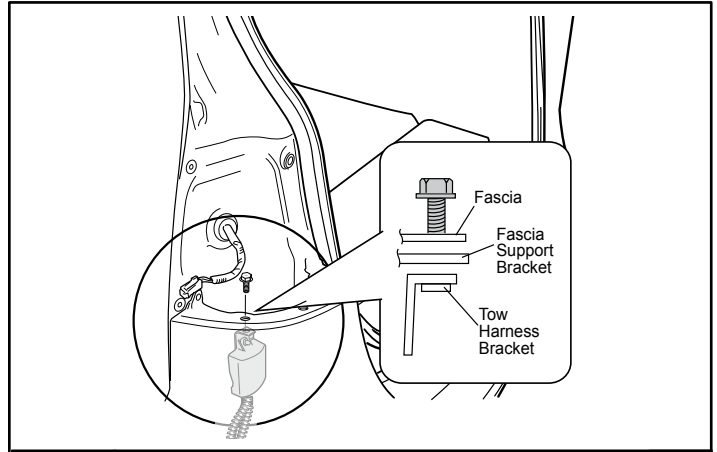
NOTE

Feed the 4-Flat wire and tow harness plugs down the tail lamp pocket of the rear fascia up to the module and bracket.

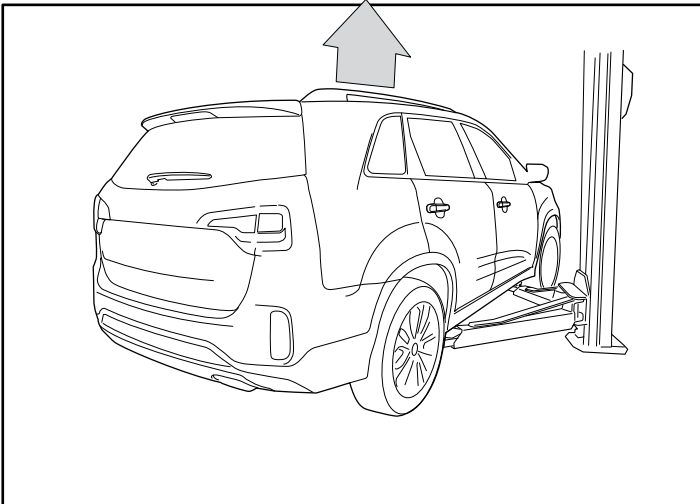
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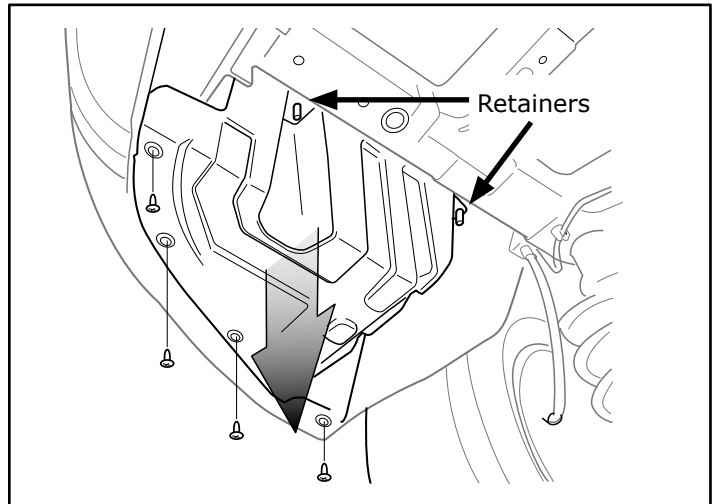
		9
NOTE	Using your fingers to hold the module bracket, feed in the remaining harness and hold the bracket under the rear fascia hole as shown.	



	10mm Socket, Ratchet and Torque Wrench	10
NOTE	Mount the module and bracket under rear fascia support bracket and hole with the provided M6 bolt. Tighten the M6 bolt using a 10mm socket and ratchet. Torque to 6 ~ 7.5 N.m (0.62 ~ 0.76 kgf.m, 4.5 ~ 5.5 lbs-ft).	

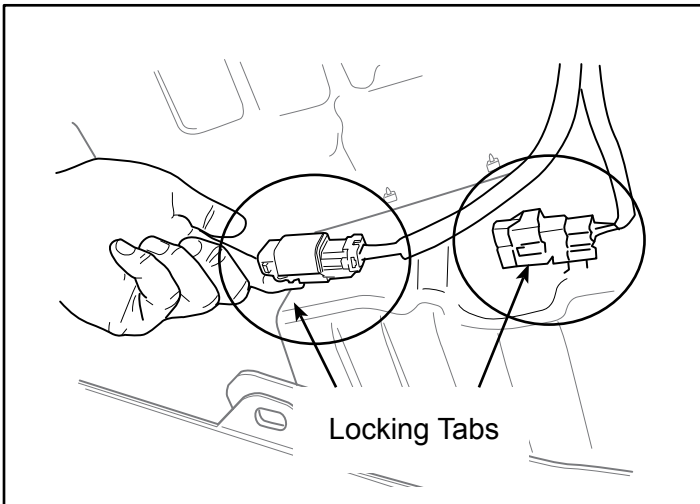


	Vehicle Lift	11
NOTE	Use vehicle lift to raise the vehicle.	



	#2 Phillips Screwdriver	12
NOTE	From underneath the vehicle, locate the drivers side rear plastic cover. Using a #2 phillips screwdriver, remove the four (4) plastic push pins. Pull the cover straight down to unseat the cover from the two (2) locator studs.	
	Retainer clips may remain on locator studs. Remove the clips from studs and reinsert into the covers.	

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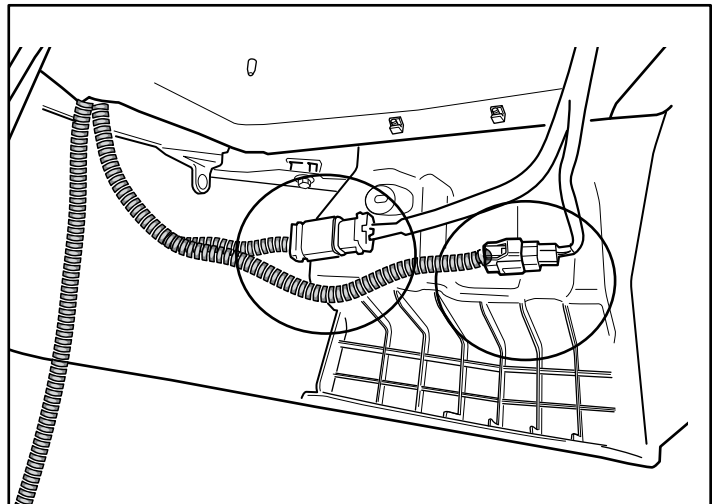
Locking Tabs



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NOTE

Locate the vehicle tow plugs on driver side and remove both protective connector covers and discard. Make sure both connectors are clean and free of any debris.



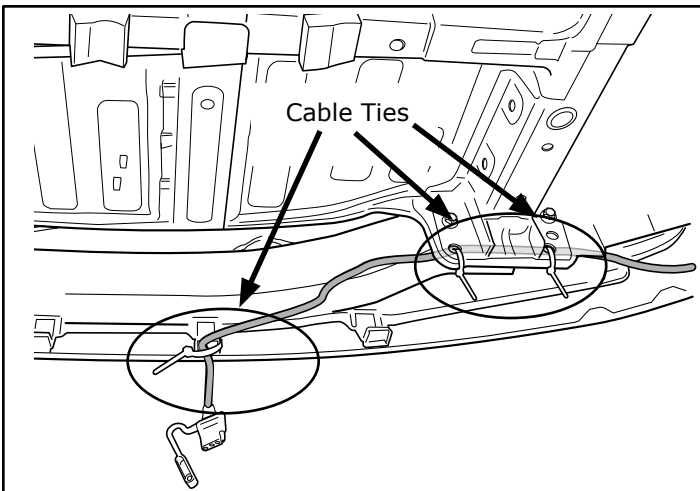
14

NOTE

Connect both tow hitch wire harness connectors to the vehicle connectors as shown.



Connectors should be fully inserted with locking tabs in place.



Cable Ties

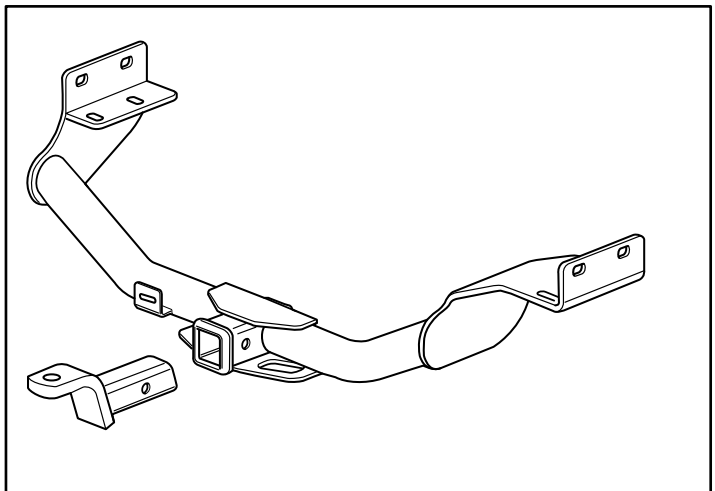


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NOTE

Diagonal Cutters

Begin routing the 4-Flat wire harness over to the center of the vehicle along the bumper reinforcement as shown. Use three (3) 8.5" cable ties to secure in the location as shown. Using diagonal cutters, trim excess cable ties.

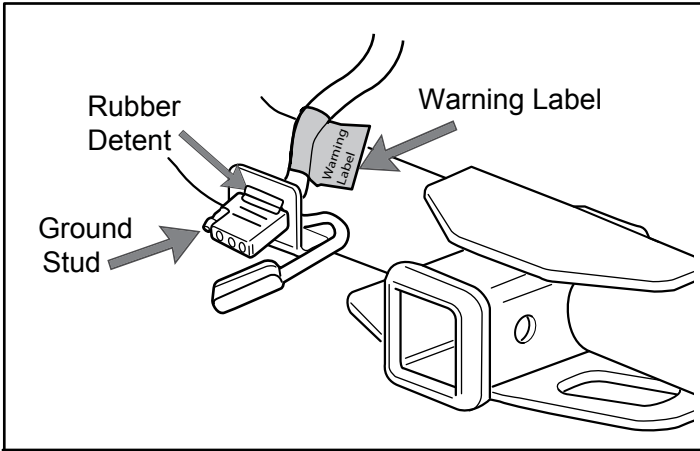


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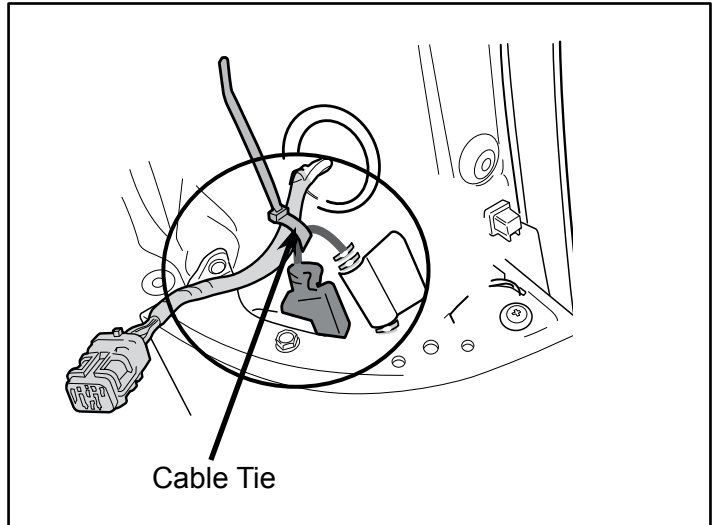
NOTE

Install trailer hitch according to the hitch Installation.

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17	
NOTE	Route the 4-Flat connector over the top of the tow hitch and through the mounting bracket welded to the hitch. Mount the ground stud on the left hand side of the bracket. Push the 4-Flat through the bracket until the first rubber detent is visible and the connector is firmly locked into position, as shown above. Secure the weather cap over the 4-Flat connector.



18	
NOTE	Diagonal Cutters Locate the fuse holder on the tow harness, use one (1) 8.5" cable tie to secure to vehicle tail lamp harness as shown. Trim excess cable tie. Reconnect driver side tail light.
	Connector should be fully inserted with locking tabs in place.

"NOTICE"

15 AMP TOW HARNESS FUSE LOCATION.

Fuse Location

For Vehicles Equipped with Tow Hitch and Back Up Warning System Only

To access the 15 amp tow harness fuse: Open the rear lift gate, locate the two screws on the driver's side tail lamp. Using a #2 Phillips screwdriver, remove both screws and pull directly back to remove the tail lamp. Press the locking tab on the tail lamp harness and disconnect from the tail lamp. Set the tail lamp aside.

CAUTION: Only use a 15 amp replacement fuse, never use a higher rated fuse. Make sure the fuse cover is properly installed to prevent moisture intrusion. NOTE: An additional 30 amp trailer fuse is located in the fuse box inside the engine compartment.

WARNING

Overloading circuit can cause fires. DO NOT exceed:

- Max stop/turn light: 2 per side and 4.2 amps max current draw per side.
- Max tail lights: 7.5 amps max current draw.

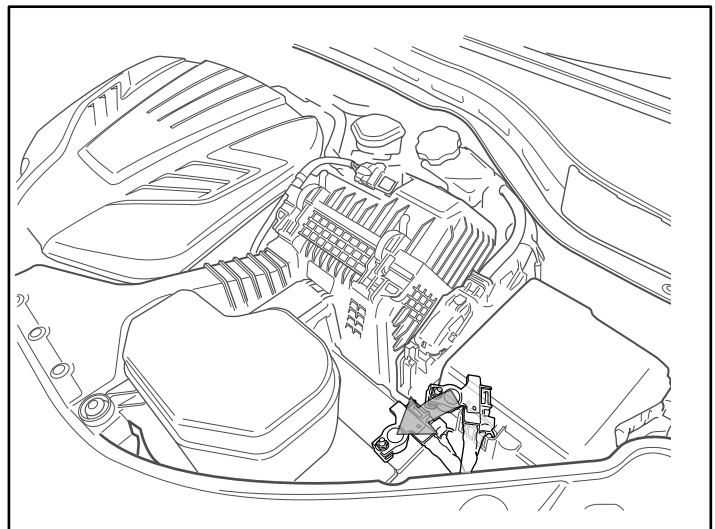
Read vehicle's owners manual for additional information.

Please be advised that a beeping sound will occur when towing with the transmission gearshift lever placed in reverse.

This condition is a normal function of the Back Up Warning System since it is sensing the trailer in close proximity behind the vehicle.

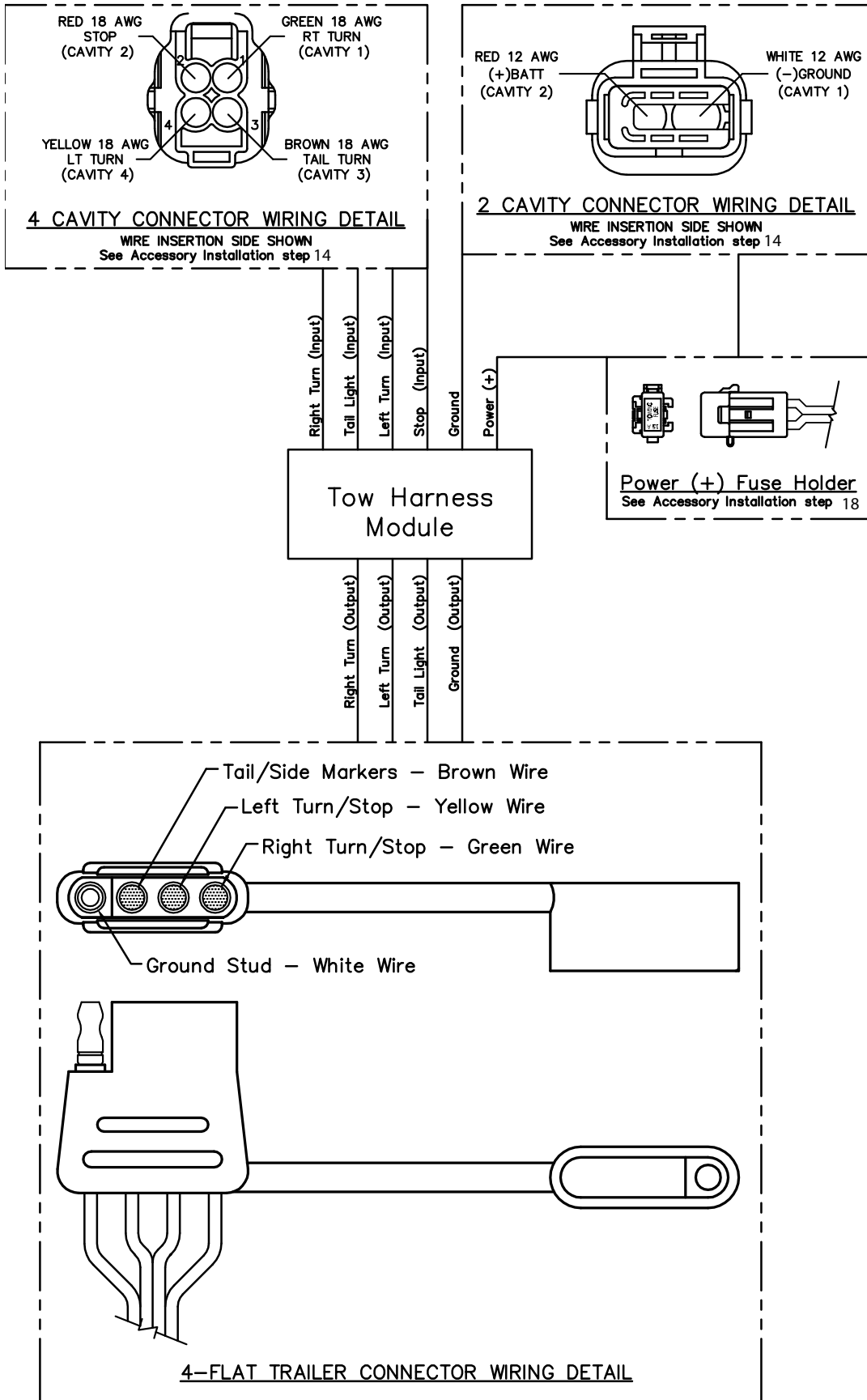
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19	
NOTE	Place Fuse Location Card inside vehicle glove box.










20	
NOTE	Ratchet and 10mm Socket Reconnect Battery. Perform function check on Page 10. Reassemble vehicle following the reverse order of steps 2-6. Place receiver plug, ball mount kit, pin and clip under the cargo floor board in the cargo storage compartment.

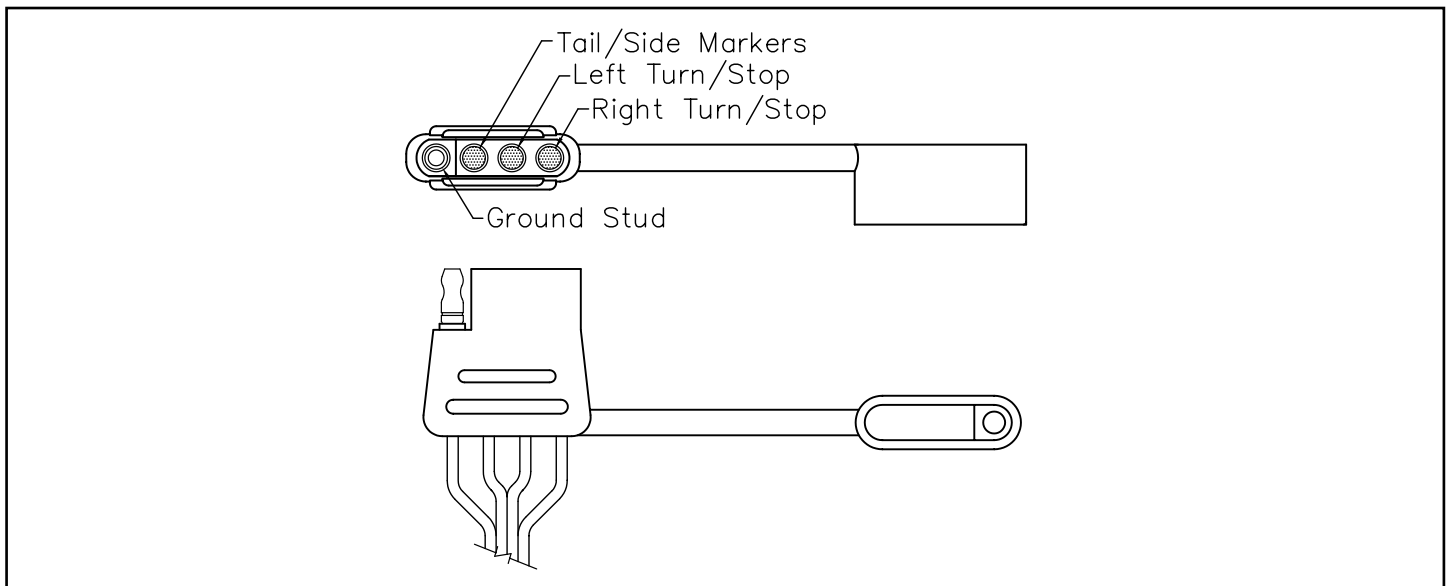
KIA Genuine Accessories Wiring Layout










KIA Genuine Accessories Function Check

		
	Test Light or Voltmeter	1
NOTE	<p>Test and verify installation with a test light.</p> <p>Turn ignition off & ensure all vehicle lights are off for 10 seconds prior to testing.</p> <p>For vehicles with smart key applications, push button to turn the ignition completely off for 10 seconds prior to testing</p> <p>Turn on ignition.</p>	




	Items To Be Checked	Results of the Check
	Test 4-Flat Connector <u>marker light</u> circuit.	Tester should illuminate/sound when the vehicle lights are activated. Verify vehicle lights are functioning normally.
	Test 4-Flat Connector <u>brake light</u> circuit.	Tester should illuminate/sound when the vehicle brakes are activated. Verify vehicle lights are functioning normally.
	Test 4-Flat Connector <u>right turn signal</u> circuit.	Tester should illuminate/sound when the right turn signal is activated. Confirm correct operation when combined with vehicle brake lights also. Verify vehicle lights are functioning normally.
	Test 4-Flat Connector <u>left turn signal</u> circuit.	Tester should illuminate/sound when the left turn signal is activated. Confirm correct operation when combined with vehicle brake lights also. Verify vehicle lights are functioning normally.
	Test 4-Flat Connector <u>hazard indicator</u> circuit.	Tester should illuminate/sound when the hazard indicator is activated. Verify vehicle lights are functioning normally.



KIA Genuine Accessories Visual Check

Items To Be Checked		Results of the Check
	All connectors are fully inserted with locking tabs engaged.	Connections secure.
	Tow harness has been properly secured under vehicle. There should be no slack. Harness should be routed as far away from exhaust system as possible.	Properly routed.
	Negative battery terminal has been reassembled.	Connection secure.
	The Fuse Location Notice Card has been placed in vehicle glove box.	Fuse Location Notice Card in glove box.
	Verify storage compartment is in place and secure.	In place and secure.
	Reset the AM/FM and satellite radio frequencies, if applicable.	Frequencies confirmed.
	The spare tire is reinstalled and seated properly.	Properly seated in the original location & is not crooked or misaligned.

Troubleshooting

Items To Be Checked			
	No Power to 4-Flat Connector: Check trailer wiring harness 15 amp fuse per Fuse Location Notice Card.	Instruction Ref.	
		Installation step 19	
	No Power to trailer light functions: Check 4-Fat connection between tester and vehicle to make sure the connection is fully engaged.	Instruction Ref.	
		N/A	
	No Power to trailer light functions: Check all connections points. Connectors should be fully inserted with locking tabs in place.	Instruction Ref.	
		Installation steps 14 & 19	