













**KMA Genuine Approved Accessories**

<b>Vehicle Model</b>	Soul	<b>Accessory</b>	EC Mirror w/ Compass / HomeLink
<b>Model Year</b>	2010	<b>Difficulty</b>	( A ) - ( B )
<b>KMA Part No.</b>	U8620 00001	<b>Pamphlet No.</b>	550-0509
<b>Vendor Part No.</b>	905-2378-002KAM	<b>Revision No.</b>	0000002

- Disassembly
- Accessory Installation
- Function Check
- Reassembly
- Visual Check
- Trouble Shooting



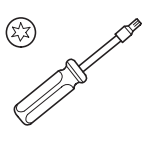
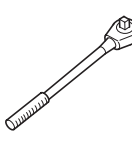


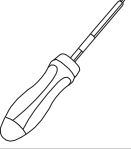


**Note: Difficulty stated above reflects the minimum level of expertise required to install the accessory  
 ( A ) Customer ( B ) Dealer Technician ( C ) Master Technician**

**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>	 Mask	 Goggles
 <p>Denotes cautions to be taken to avoid vehicle and component damage.</p>	 <p>Denotes instructional steps necessary to complete this process.</p>	 Rubber Gloves	 Hearing Protection

**Basic Required Hand Tools**

**Specialty Required Tools**

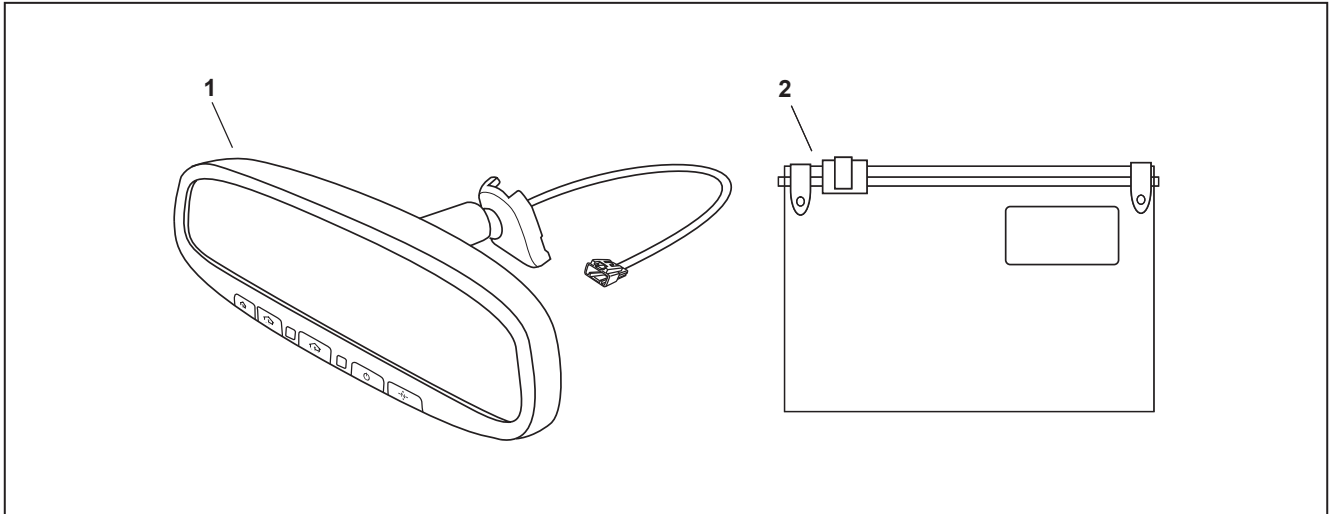
 <b>Panel Removal Tool</b>	 <b>Needle-nose Pliers</b>	 <b>T20 Torx Driver</b>	 <b>Ratchet</b>
 <b>10mm Socket</b>	 <b>Torque Wrench</b>	 <b>#2 Phillips Screwdriver</b>	 <b>Side Cutters</b>
 <b>4mm Screwdriver</b>			


**Note 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.

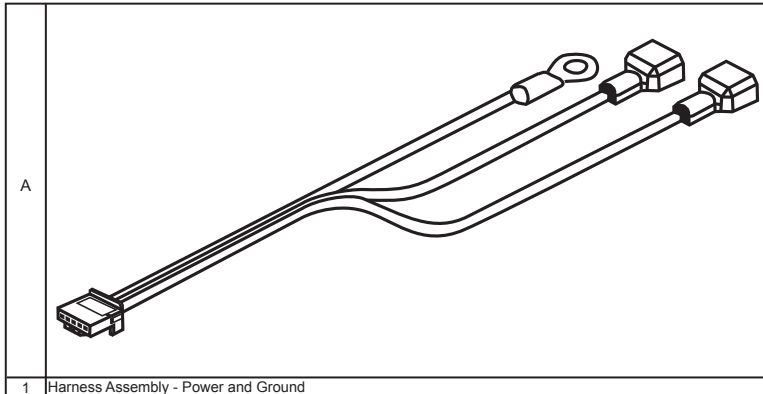
## KMA Genuine Approved Accessories

### Kit Overview



No.	Qty.	Description	No.	Qty.	Description	No.	Qty.	Description
1	1	EC Mirror w/ Compass / Homelink						
2	1	Hardware Kit						

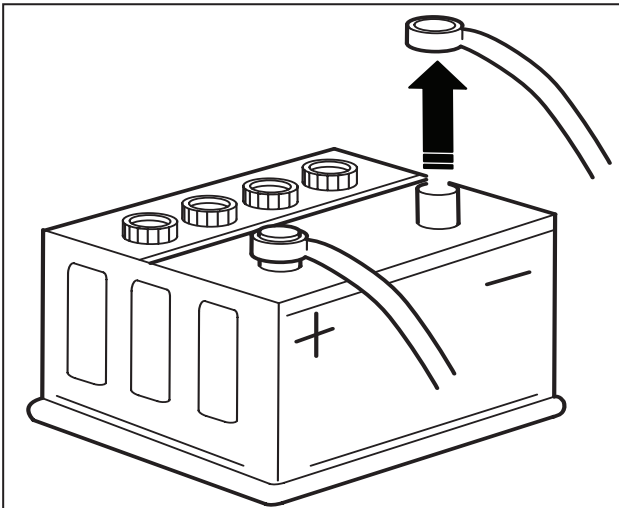
### Hardware Kit Review



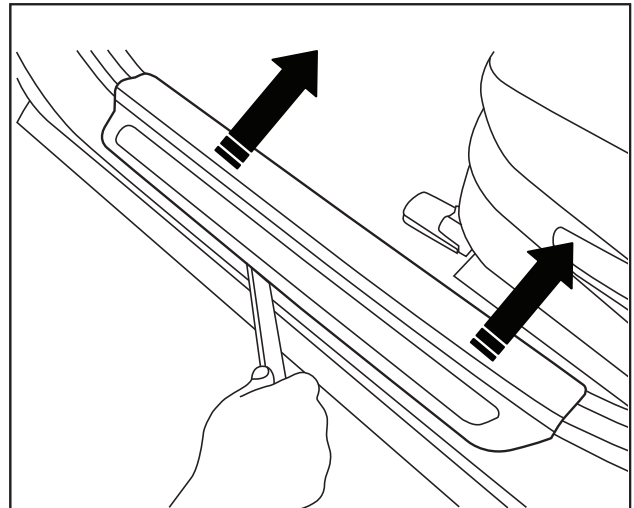
B		E	
1	Installation Instructions	11	Wire Tie
C		F	
1	Quick Reference Guide	4	Foam Tape
D		G	
2	T-tap	1	Wire Cover

<b>Hardware Kit Total</b>
21

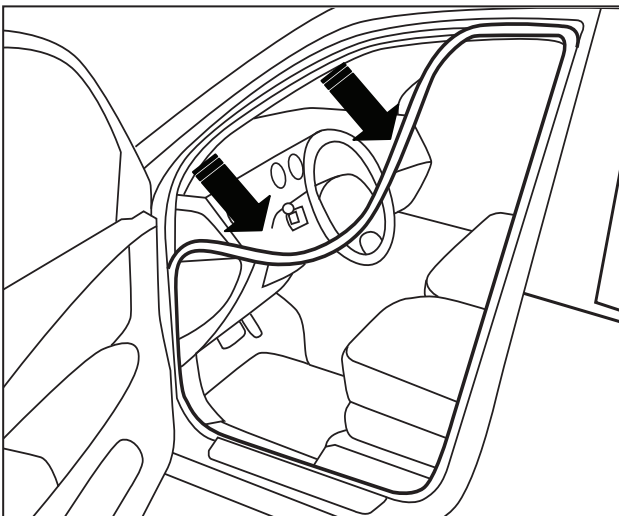
## KMA Genuine Approved Accessories (Disassembly)



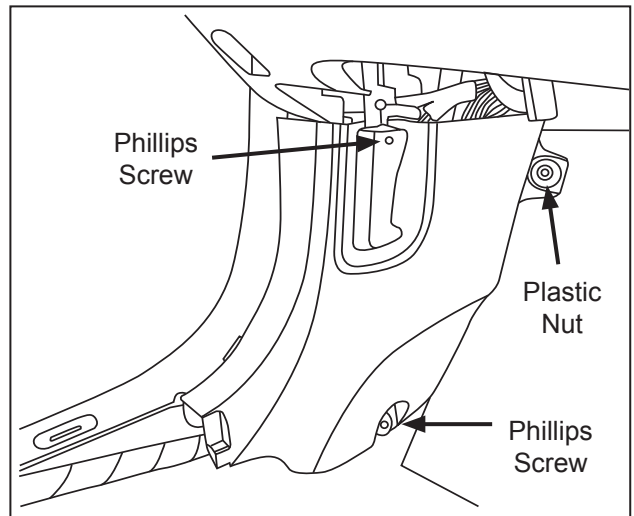
	10mm Socket	<b>1</b>
<b>NOTE</b>	Disconnect and isolate vehicle's negative battery terminal.	
	<b>CAUTION: DO NOT touch vehicle's negative battery terminal to vehicle's positive battery terminal.</b>	



	Panel removal tool	<b>2</b>
<b>NOTE</b>	Remove driver-side scuff plate.	
	<b>CAUTION: Do not scratch scuff plate.</b>	

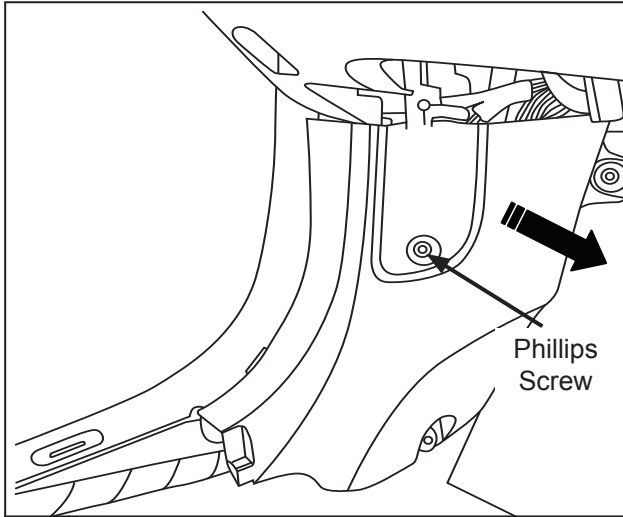


		<b>3</b>
<b>NOTE</b>	Pull front of driver-side door seal back to allow removal of A-pillar trim and kick panel.	

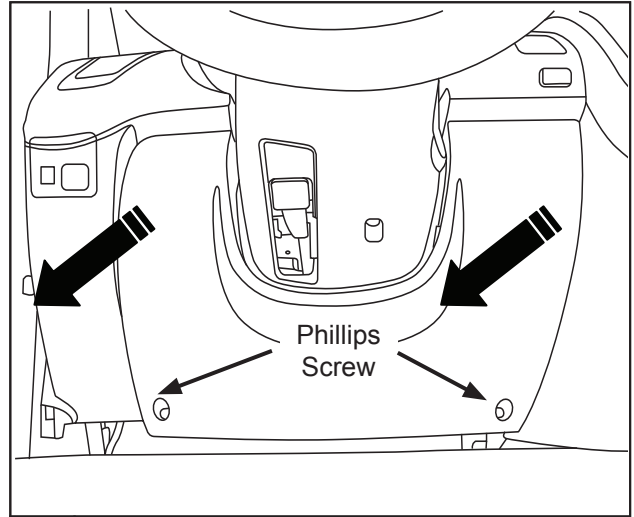


	#2 Phillips screwdriver	<b>4</b>
<b>NOTE</b>	Remove (2) Phillips screws and (1) plastic nut from rear of kick panel. Remove hood release lever.	

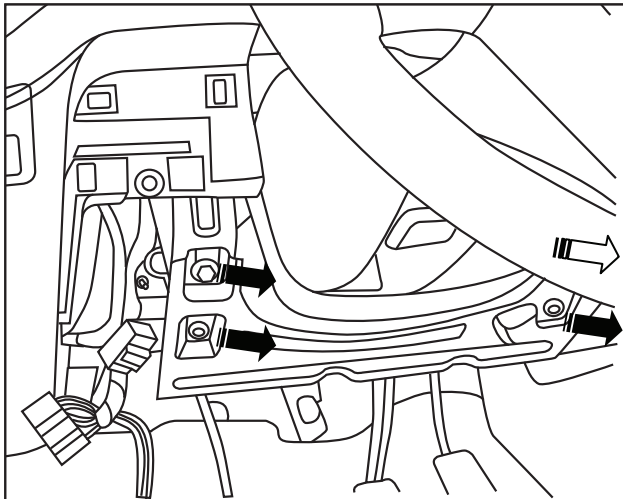
## KMA Genuine Approved Accessories (Disassembly)



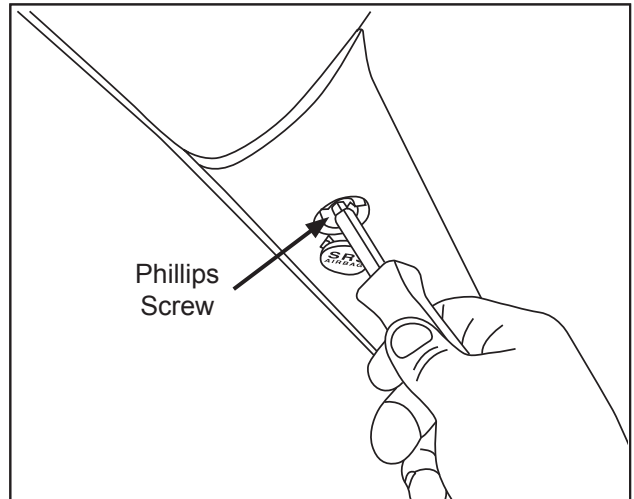
	#2 Phillips screwdriver	5
<b>NOTE</b>	Remove (1) Phillips screw from kick panel. Pull kick panel out towards passenger-side of vehicle to remove.	



	#2 Phillips screwdriver & Panel removal tool	6
<b>NOTE</b>	Remove (2) Phillips screws from right and left side of lower dash panel trim and remove panel, including OBD II connector.	
	CAUTION: Do not scratch lower dash panel trim.	

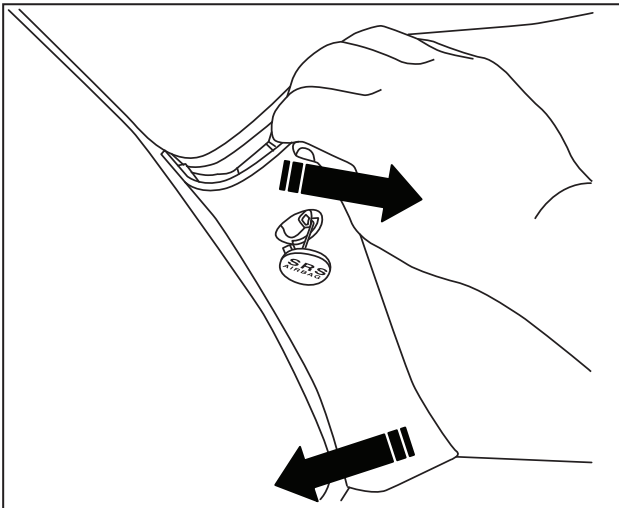


	10mm socket	7
<b>NOTE</b>	Remove the steel knee bolster plate by removing (4) bolts with 10mm socket.	

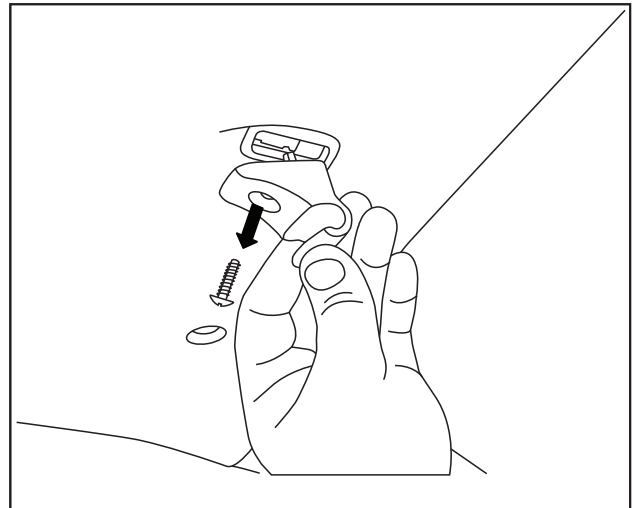


	4mm screwdriver & Phillips screwdriver	8
<b>NOTE</b>	Insert 4mm screwdriver under screw cover in order to remove cover. Once cover is removed, remove (1) Phillips screw from A-pillar trim.	
	CAUTION: Do not damage A-pillar trim.	

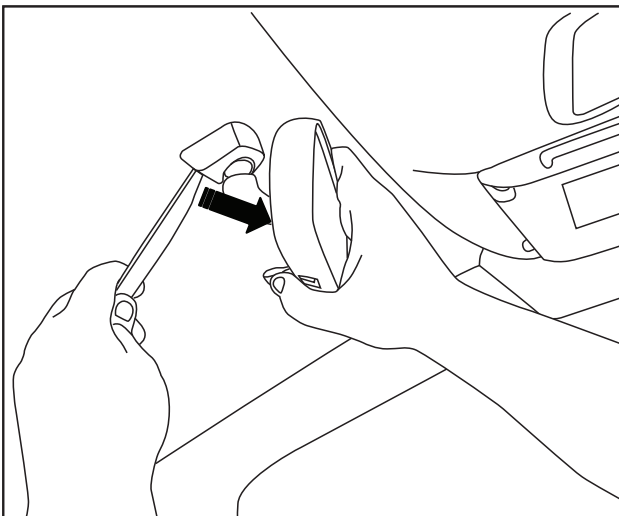
## KMA Genuine Approved Accessories (Disassembly)



		<b>9</b>
<b>N O T E</b>	Remove A-pillar trim by pulling top out towards passenger-side of vehicle and then pulling base towards rear of vehicle.	
	<b>CAUTION:</b> Ensure care is taken to prevent damage to A-pillar and airbag unit.	

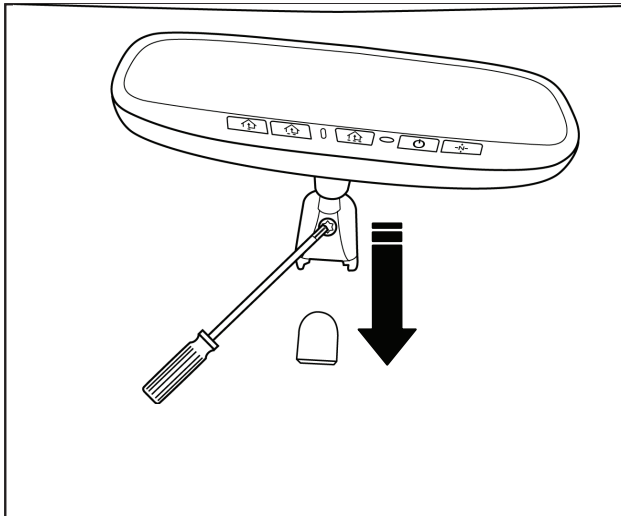


	#2 Phillips screwdriver	<b>10</b>
<b>N O T E</b>	Remove driver-side sun visor hook using #2 Phillips screwdriver.	
	<b>CAUTION:</b> Ensure care is taken to prevent damage to sun visor or headliner.	

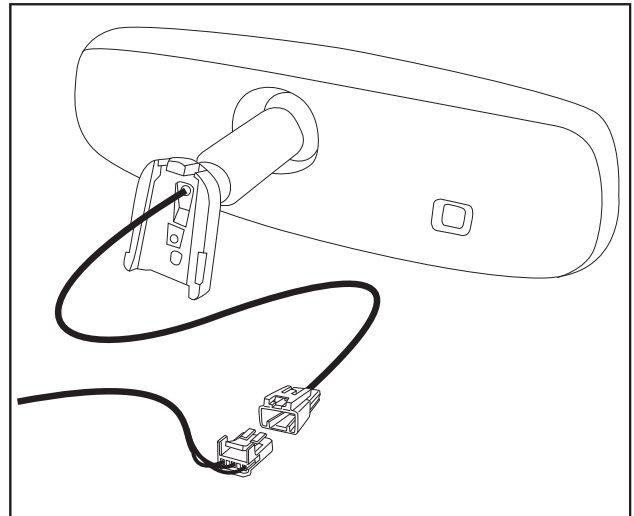


	Panel removal tool	<b>11</b>
<b>N O T E</b>	Pull lever in direction indicated by arrow and slide rear view mirror assembly upwards to remove.	
	<b>CAUTION:</b> Ensure care is taken to prevent damage to windshield or headliner.	

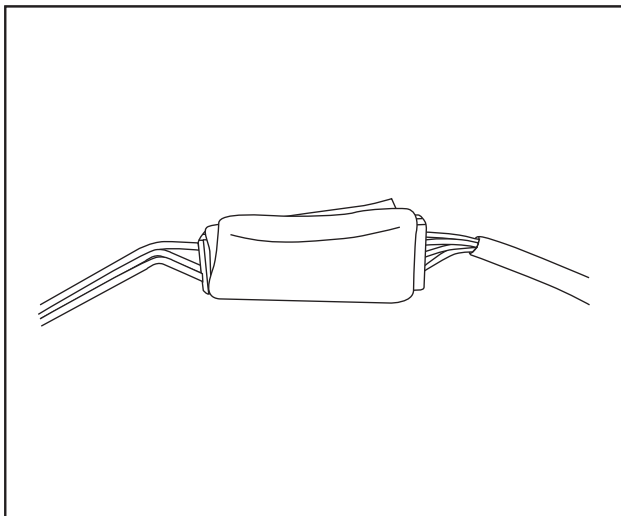
## KMA Genuine Approved Accessories (Accessory Installation)



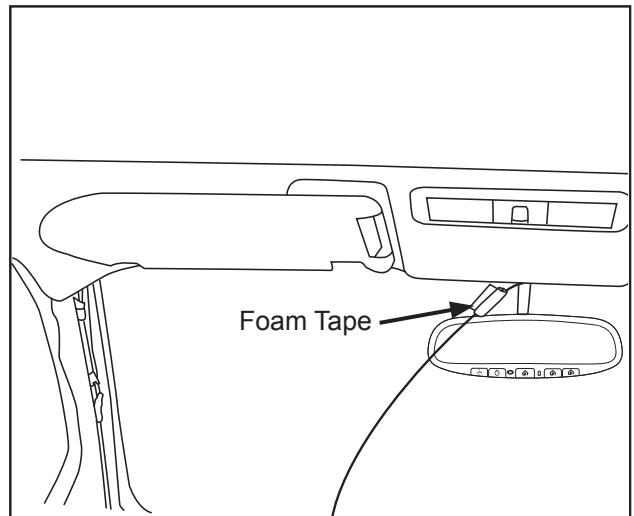
	T20 Torx Driver	1
<b>NOTE</b>	Slide EC mirror onto windshield button.	
	CAUTION: Tighten the mirror mounting bracket screw to 15.6 lbs-in (17.9 kg-cm).	



		2
<b>NOTE</b>	Plug 5-pin connector from EC Power harness into Mirror Harness.	
	CAUTION: Ensure 5-pin connector is securely installed.	

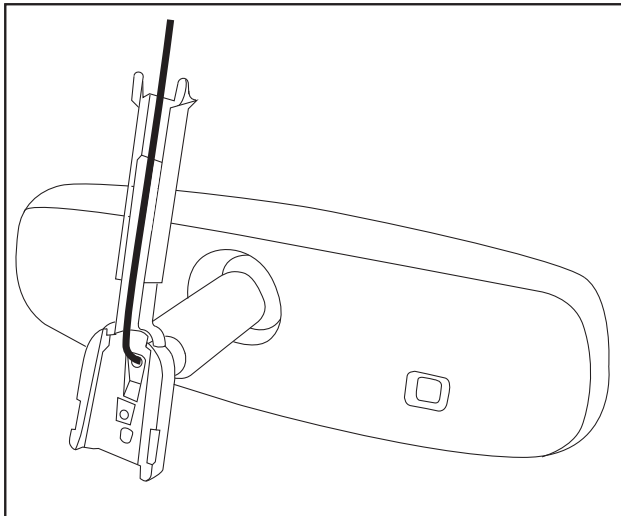


		3
<b>NOTE</b>	Wrap (1) piece of foam tape around EC mirror harness connector.	



	Panel removal tool	4
<b>NOTE</b>	Tuck EC mirror harness connector between headliner and roof above EC mirror.	
	CAUTION: Use caution when working with headliner to prevent creases or damage.	

## KMA Genuine Approved Accessories (Accessory Installation)



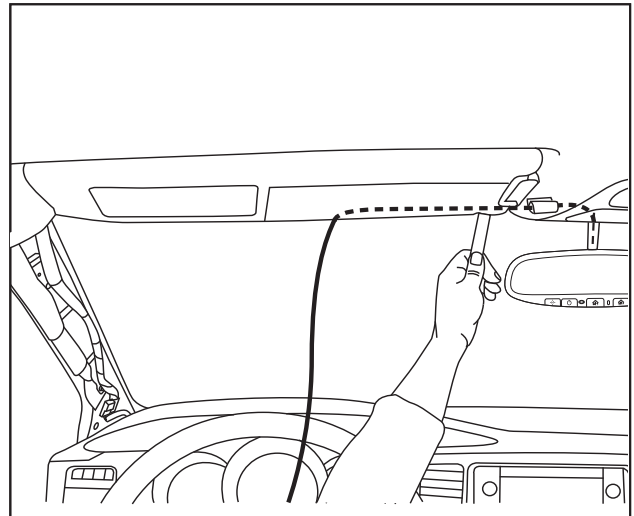
5

**NOTE**

Route EC wire harness into groove of wire cover and attach to the mirror mount. Extend the top of wire cover fully into headliner.



**CAUTION:** Ensure forks are properly seated into mirror and headliner.



Panel removal tool

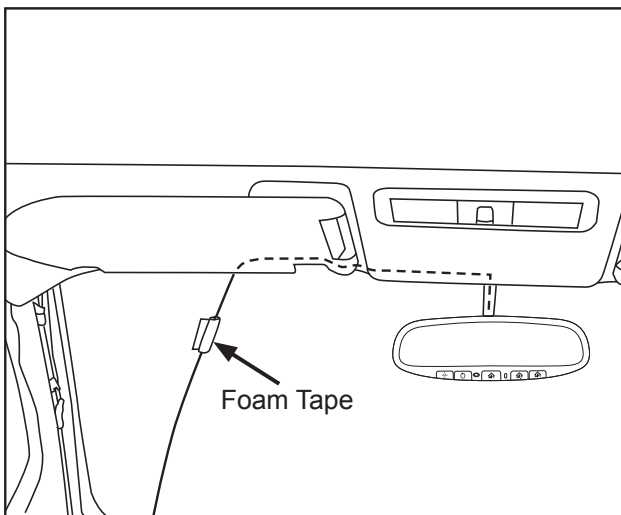
6

**NOTE**

Tuck the EC mirror harness between the headliner and the roof and stop just past the visor clip location.



**CAUTION:** Use caution when working with headliner to prevent creases or damage.



Foam Tape



Panel removal tool

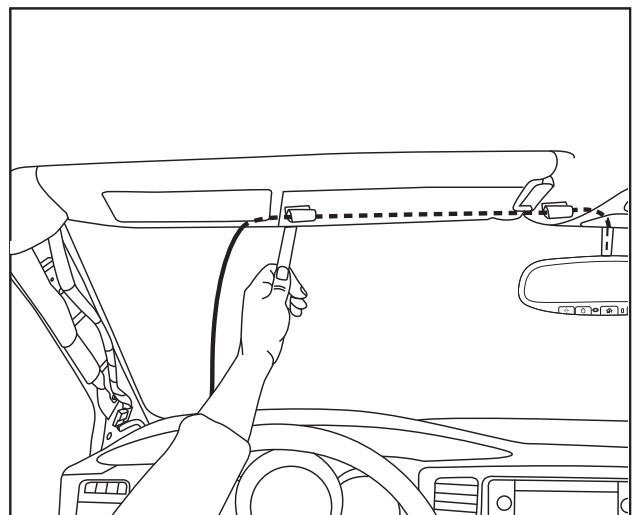
7

**NOTE**

Wrap (1) piece of foam tape around EC mirror harness approximately centered above visor.



**CAUTION:** Use caution when working with headliner to prevent creases or damage.



Panel removal tool

8

**NOTE**

Tuck EC mirror harness between headliner and roof. Taped portion of EC mirror harness should be centered above visor.



**CAUTION:** Use caution when working with headliner to prevent creases or damage.

## KMA Genuine Approved Accessories (Accessory Installation)

Foam Tape

	Panel removal tool	9
<b>NOTE</b>	Wrap (1) piece of foam tape around EC mirror harness approximately where headliner bends towards driver-side door.	
	<b>CAUTION:</b> Use caution when working with headliner to prevent creases or damage.	

	Panel removal tool	10
<b>NOTE</b>	Tuck EC mirror harness between headliner and roof. Taped portion of EC mirror harness should be where headliner bends towards driver-side door.	
	<b>CAUTION:</b> Use caution when working with headliner to prevent creases or damage.	

Wire Tie

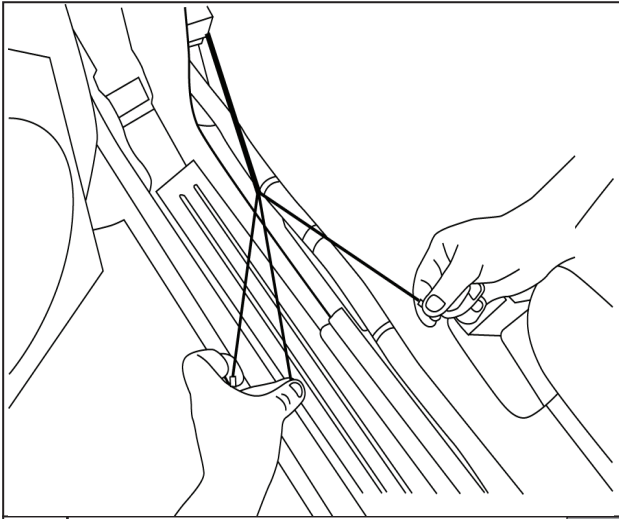
Foam Tape

		11
<b>NOTE</b>	Route EC mirror harness down A-pillar and secure to factory wire harness with (3) wire ties and to base of A-pillar with (1) piece of foam tape.	
	<b>CAUTION:</b> If vehicle is equipped with a sunroof, do not secure wire ties to drain tube.	

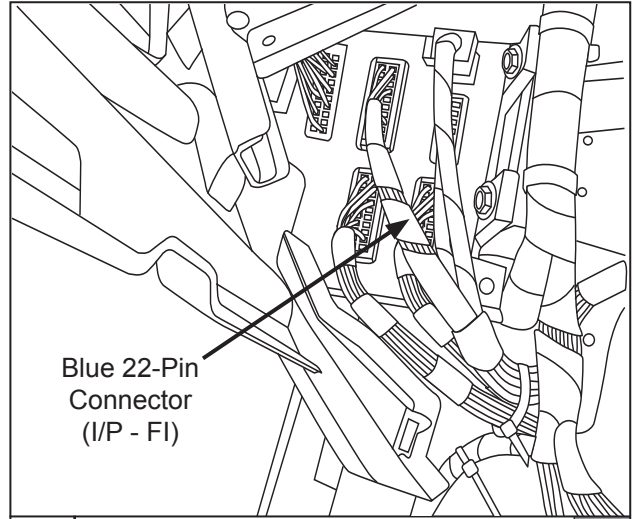
		12
<b>NOTE</b>	Route EC mirror harness through dash, ensuring harness is routed to the back side of the support bar, facing driver.	
	<b>CAUTION:</b> Ensure harness is not damaged during routing behind support bar.	



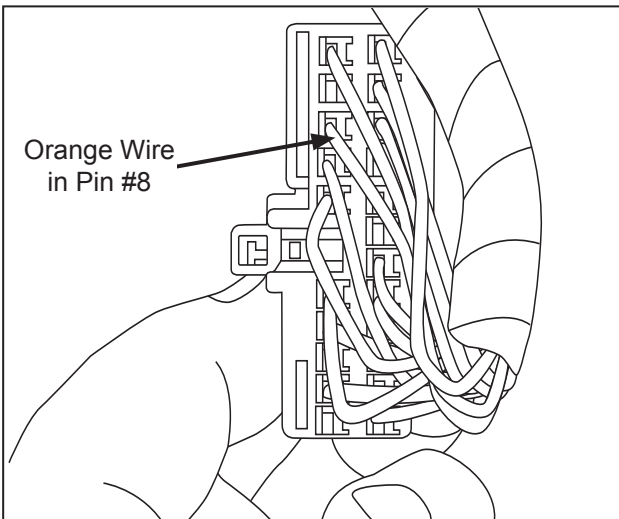
## KMA Genuine Approved Accessories (Accessory Installation)



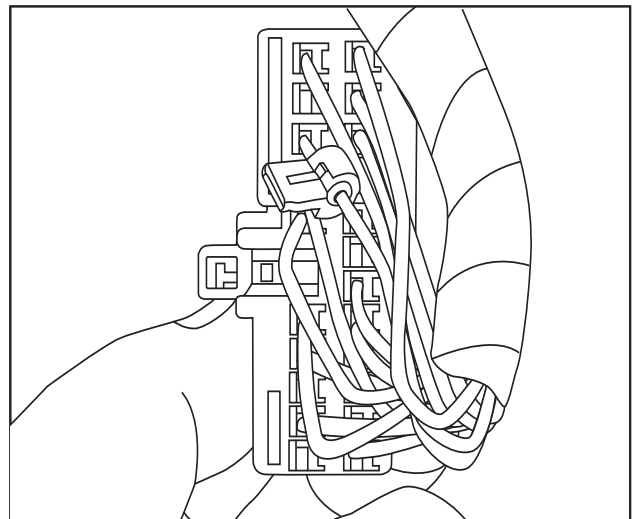
<b>NOTE</b>	13
Pull EC mirror harness wires apart approximately 18 inches.	



<b>NOTE</b>	14
<p>Blue 22-Pin Connector (I/P - FI)</p> <p>Locate the Blue 22-pin connector (I/P - FI) on back side of the junction block. Unplug the connector.</p>	

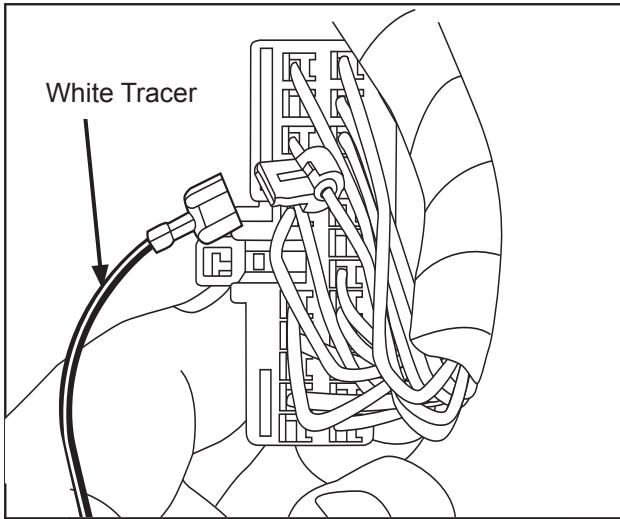


<b>NOTE</b>	15
<p>Orange Wire in Pin #8</p> <p>Locate the <b>ORANGE</b> wire in Pin #8 of the 22-pin connector.</p>	



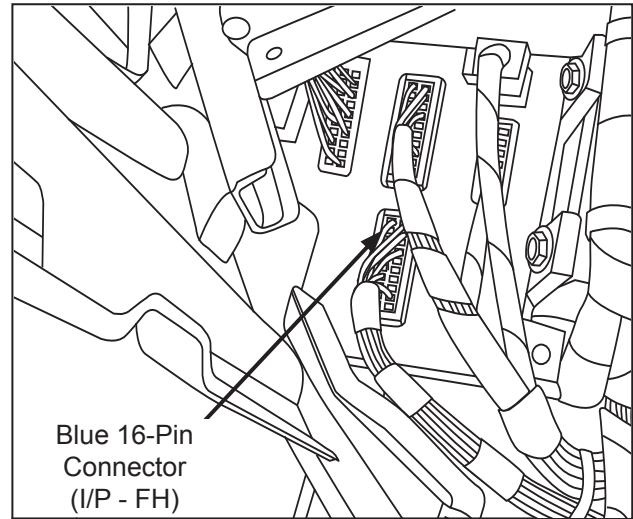
<b>NOTE</b>	16
<p>Needle-nose pliers</p> <p>Attach t-tap to <b>ORANGE</b> wire in Pin #8. Use needle-nose pliers to snap t-tap together.</p>	
<p><b>CAUTION:</b> Ensure wire is in slot of t-tap before closing and that both halves of t-tap connector are snapped together properly.</p>	

## KMA Genuine Approved Accessories (Accessory Installation)



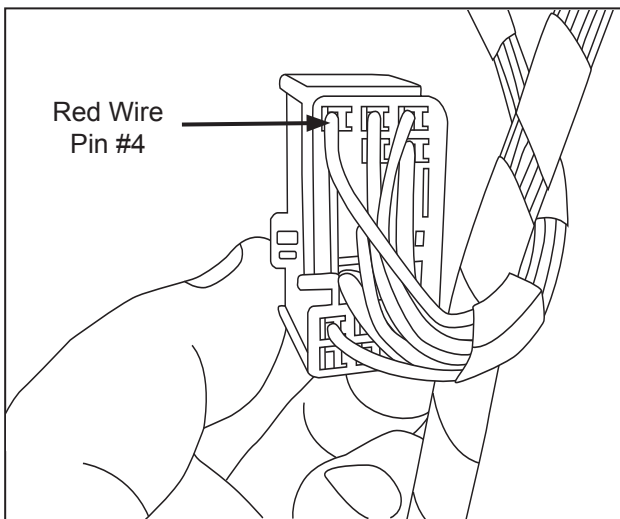
White Tracer

17	
<b>NOTE</b>	Insert spade terminal on the <b>Black w/ WHITE tracer</b> wire of EC mirror harness into t-tap connector of ORANGE wire (switched IGN 12 volts). Plug 22-pin connector back into junction box.
<b>CAUTION</b>	Ensure male spade connector is fully inserted into wire tap. Check to see that the spade connector did not miss the slot. Check to see that it is not visible on either side of female connector.



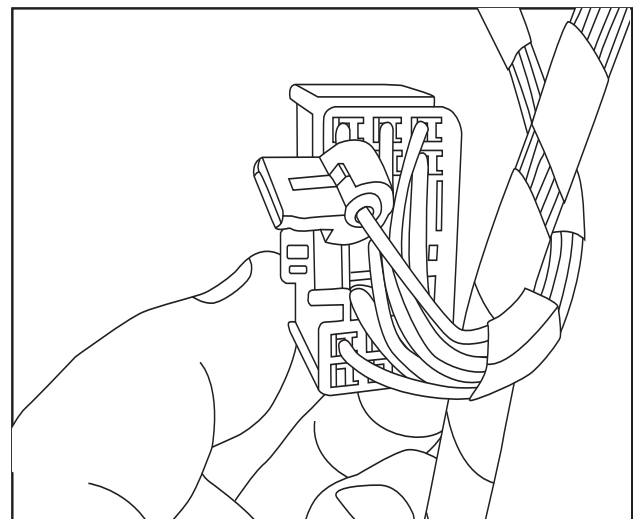
Blue 16-Pin Connector (I/P - FH)

18	
<b>NOTE</b>	Locate the blue 16-pin connector (I/P - FH) on back side of the junction block. Unplug connector.



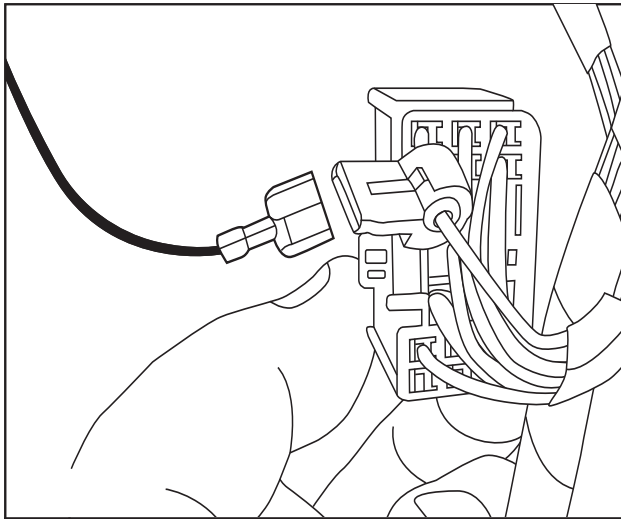
Red Wire Pin #4

19	
<b>NOTE</b>	Locate the Red wire in Pin #4 of the 16-pin connector.

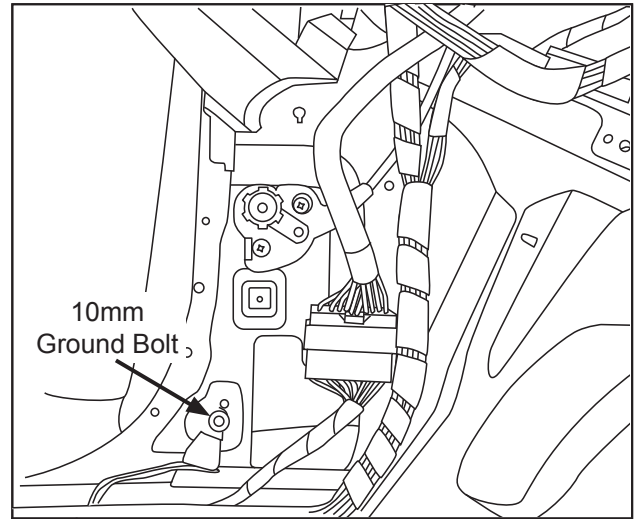


20	
<b>NOTE</b>	Needle-nose pliers Attach t-tap to Red wire in Pin #4. Use needle-nose pliers to snap t-tap together.
<b>CAUTION</b>	Ensure wire is in slot of t-tap before closing and that both halves of t-tap connector are snapped together properly.

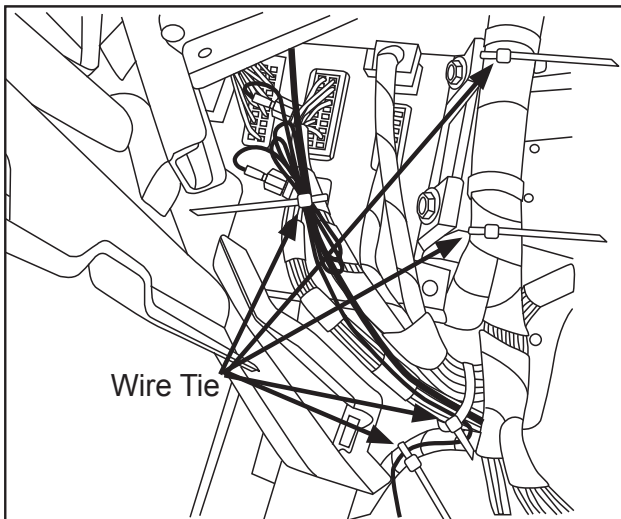
## KMA Genuine Approved Accessories (Accessory Installation)



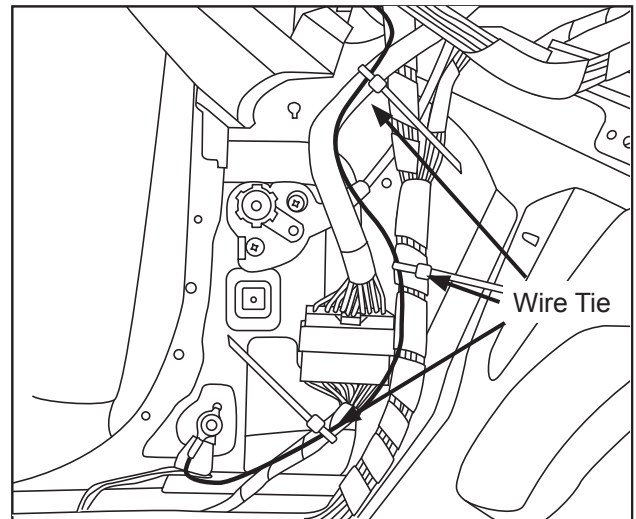
	<b>21</b>
<b>NOTE</b>	Insert spade terminal on the solid <b>Black</b> wire of EC mirror harness into t-tap connector of Red wire (constant 12 volts). Plug 16-pin connector back into junction box.
	<b>CAUTION:</b> Ensure male spade connector is fully inserted into wire tap. Check to see that the spade connector did not miss the slot. Check to see that it is not visible on either side of female connector.



	<b>22</b>
<b>NOTE</b>	Route ring terminal on <b>Ground</b> wire from EC mirror harness into kick panel area. Remove the ground bolt from driver-side kick plate area using a 10mm socket. Insert ring terminal over ground bolt and reinstall.
	<b>CAUTION:</b> Ensure ground bolt is securely tightened.



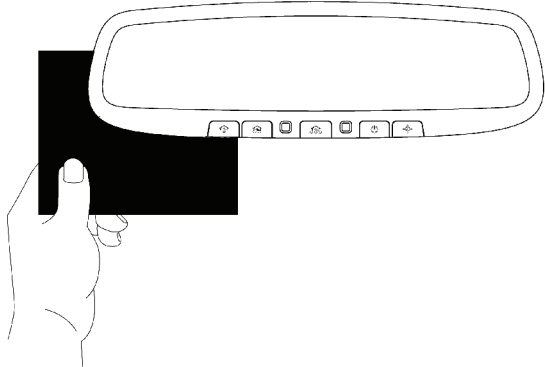
	<b>23</b>
<b>NOTE</b>	Pull excess EC mirror harness into junction block area and secure with (1) wire tie. Secure remaining EC mirror harness to factory wire harness with (4) wire ties.

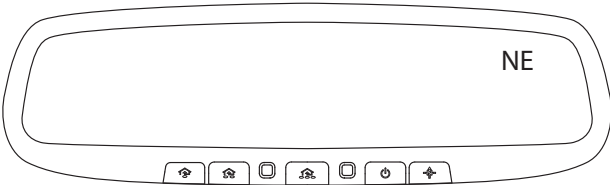


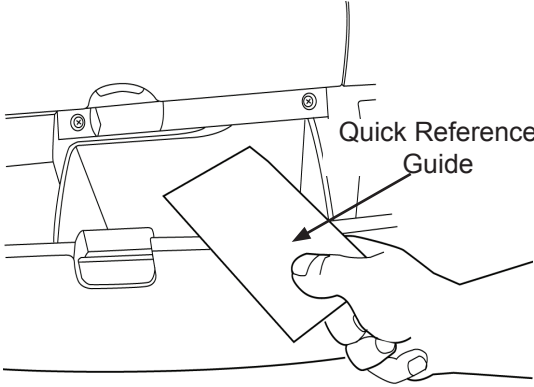

	<b>24</b>
<b>NOTE</b>	Secure EC mirror ground wire to factory wire harness with (3) wire ties.

## KMA Genuine Approved Accessories (Testing & Re-installation)










	Testing Preparation	<b>1</b>
<b>NOTE</b>	<p>Reconnect negative battery cable.</p> <p>Turn the ignition switch to the "ON" position.</p> <p>With the Vehicle in a fairly well-lit area, perform the following:</p> <p>To make sure the auto-dimming feature is on, verify that the green LED to the left of the center button is on. If it is not on, push the "☀" button to turn the green LED on.</p>	

		
		<b>2</b>
<b>NOTE</b>	<p>Cover the forward looking photocell on the back of the mirror with a dark cloth or towel.</p> <p>In a few seconds the mirror will begin to darken.</p> <p>Remove the cloth from the forward looking photo cell and the mirror will begin to clear.</p>	

		
		<b>3</b>
<b>NOTE</b>	<p>Verify that either a direction, such as NE, or "C" is displayed in the display window. If not, ensure the feature is turned on by pressing the compass display "☀" button.</p> <p>Turn the ignition key to the "OFF" position.</p> <p>Push each HomeLink button, one at a time, and verify that the LED indicator to the left of the center button illuminates with a red LED.</p> <p>Testing is now complete.</p>	

		
		<b>4</b>
<b>NOTE</b>	<p>Trim off all tie wraps.</p> <p>Reinstall in reverse order, all trim pieces removed during installation.</p> <p>Place Quick Reference Guide in vehicle glove box.</p> <p>Remove fingerprints, smudges, etc. from mirror.</p>	
	<p><b>CAUTION:</b> Do NOT spray glass cleaner or other cleaning liquid directly onto the mirror as it may damage the electronics.</p>	

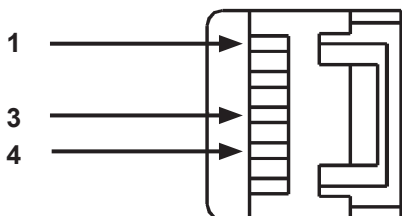
### KMA Genuine Approved Accessories Pamphlet (Visual Check)

Items To Be Checked	Results Of The Check
 Negative battery terminal tightened	Wire is correctly fastened to the negative battery terminal.
 Driver-side scuff plate	Scuff plate is securely in place.
 Driver-side kick plate	Kick plate is securely in place.
 Driver-side A-pillar trim	A-pillar trim is securely in place.
 EC mirror torx screw	EC mirror Torx screw is tightened to 15.6 lbs-in (17.9 kg-cm).
 EC mirror harness connector	EC mirror harness connector is securely fastened to power harness.
 EC mirror features: Auto-dimming	EC mirror dims with key in "ON" position and forward looking photocell is covered.
 EC mirror features: Compass Display	Compass display reads either "C" or a directional heading with key in "ON" position only and <u>NOT</u> in "OFF" position.
 EC mirror features: HomeLink	Red LED illuminates when each button is pushed with key in both "OFF" and "ON" positions.

## KMA Genuine Approved Accessories Pamphlet (Trouble Shooting)

Items In Question	Results Of The Check
B+ harness wire, pin 3 at the mirror harness connector is receiving +12V with ignition OFF.	B+ harness wire, pin 3 at the mirror harness connector is receiving 12V with ignition OFF.
<small>Instruction Ref.</small> Step 18 - 21 (Installation)	
Switched harness wire, pin 4 at the mirror harness connector is receiving +12V with ignition ON.	Ignition harness wire, pin 4 at the mirror harness connector is receiving +12V with ignition ON.
<small>Instruction Ref.</small> Step 14 - 17 (Installation)	
Ground is present at pin 1 at the mirror harness connector.	Ground is present at pin 1 at the mirror harness connector.
<small>Instruction Ref.</small> Step 22 (Installation)	
Power harness is fully inserted into mirror harness.	Harness connectors click when fully inserted into each other.
<small>Instruction Ref.</small> Step 2 (Installation)	
Spade terminals are correctly inserted into T-taps.	Ensure that male spade connectors are fully inserted into t-taps. Check to see that the spade connector did not miss the slot and that it is not visible on either side of female connector.
<small>Instruction Ref.</small> Step 17 & 21 (Installation)	
Harness is not pinched, cut, or damaged.	Harness is routed in a manner free of clips and pinch points of trim pieces.
<small>Instruction Ref.</small> Step 2 - 24 (Installation)	

**MIRROR CONNECTOR PIN-OUT**



NO.	GAGE	COLOR	FUNCTION
1	22	Black	GROUND
2			
3	22	Black	BATTERY (constant 12 volts)
4	22	Black w/ White Tracer	IGNITION (switched 12 volts)
5			