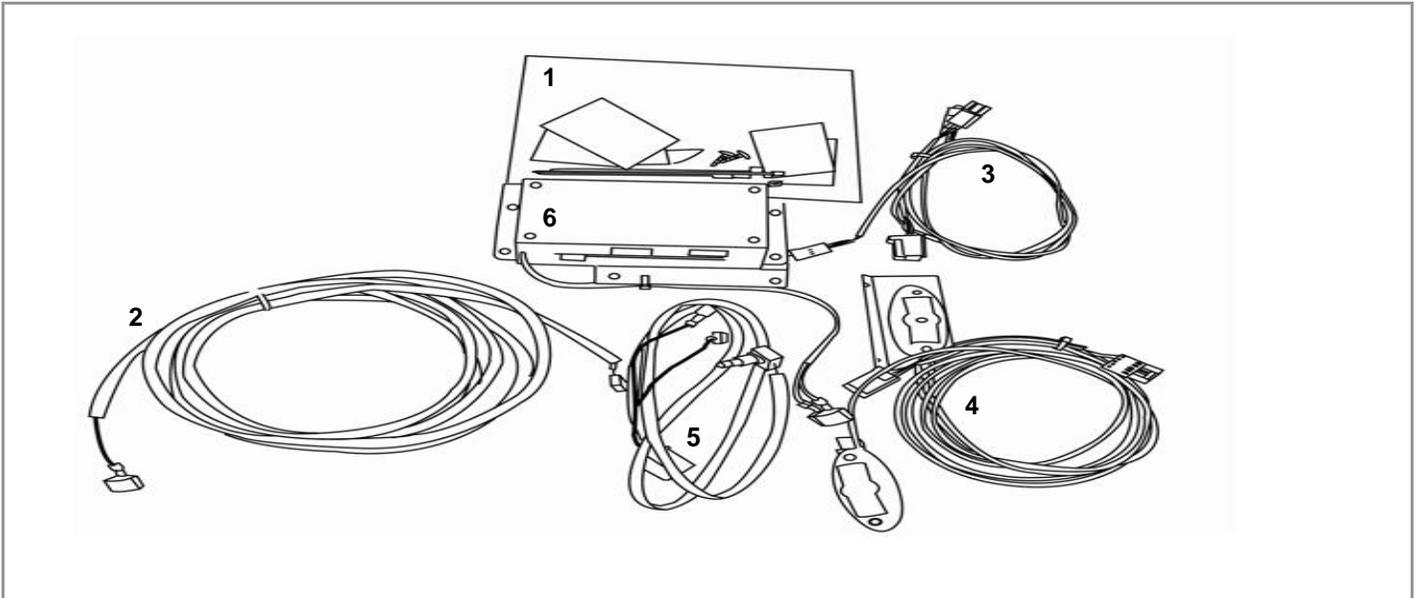
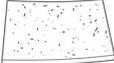


Kit Overview



No.	Qty.	Description	No.	Qty.	Description	No.	Qty.	Description
1	1	Hardware Kit						
2	1	Driver's Side Signal Harness						
3	1	Cup Holder Light Harness						
4	1	Under IP Light Harness						
5	1	Switch Harness						
6	1	Controller Module Assembly						

Hardware Overview

<p>A</p>  <p>2 #4 x 3/8 Pan Head Self Tapping Screw</p>	<p>F</p>  <p>1 Cup Holder Lens Kit</p>			
<p>B</p>  <p>1 #10 x 1/2 Pan Head Self Tapping Screw</p>	<p>G</p>  <p>4 T-Taps</p>			
<p>C</p>  <p>2 8-32 x 1/2 Pan Head Machine Screw</p>	<p>H</p>  <p>25 4" Wire ties</p>			
<p>D</p>  <p>2 8-32 Nylock</p>	<p>I</p>  <p>2 7" Wire Ties</p>			
<p>E</p>  <p>9 Foam Pad</p>	<p>J</p>  <p>1 Switch Cap</p>			

Hardware Kit Total
49

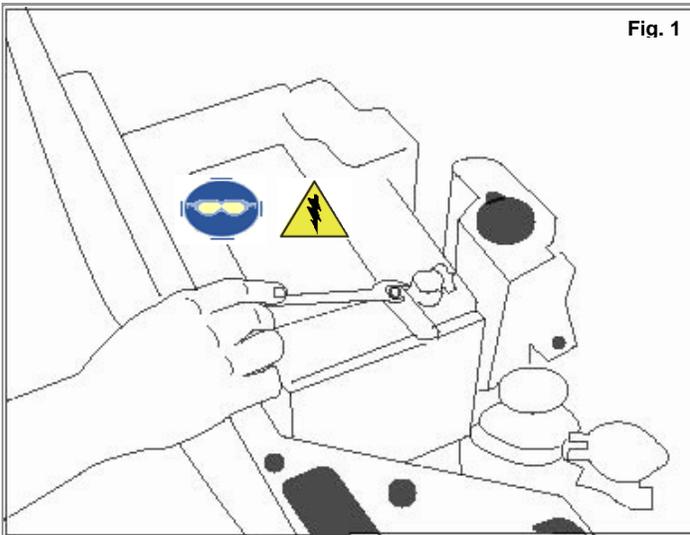


Fig. 1

	10mm Box End Wrench	1
N O T E	Remove the negative lead from the battery and place so it does not come into contact with the battery terminal as shown in figure 1.	
	Do not leave the wrench in the engine compartment or on battery after removing cable.	

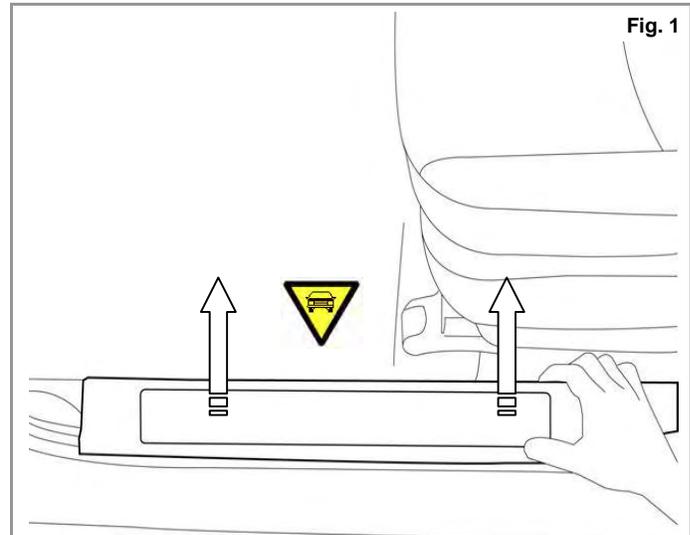


Fig. 1

	None	2
N O T E	Using your hands gently pry the drivers side door scuff plate off of the vehicle rocker panel as shown in figure 1.	
	Be careful not to damage the clips or mar the scuff plate when performing this step. Place scuff plate in a clean dry area.	

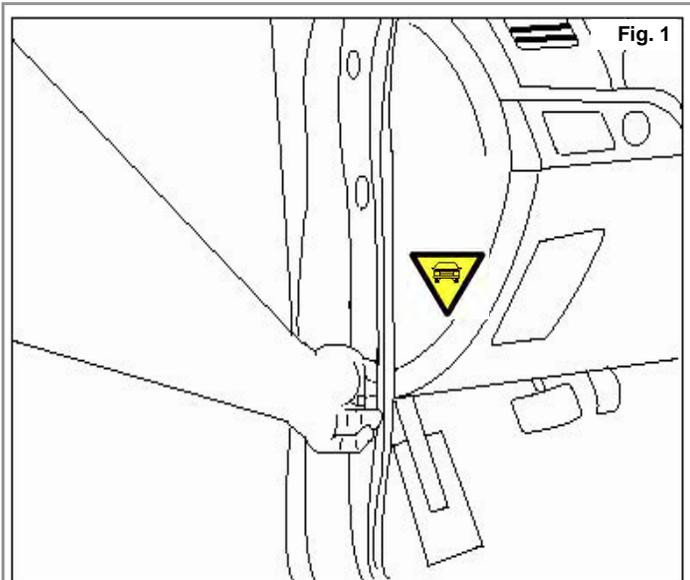


Fig. 1

	None	3
N O T E	Gently remove the rubber weather strip from the vehicle panel to allow the removal of the left kick panel as shown in figure 1.	
	Be careful to not damage the rubber weather strip when dislodging.	

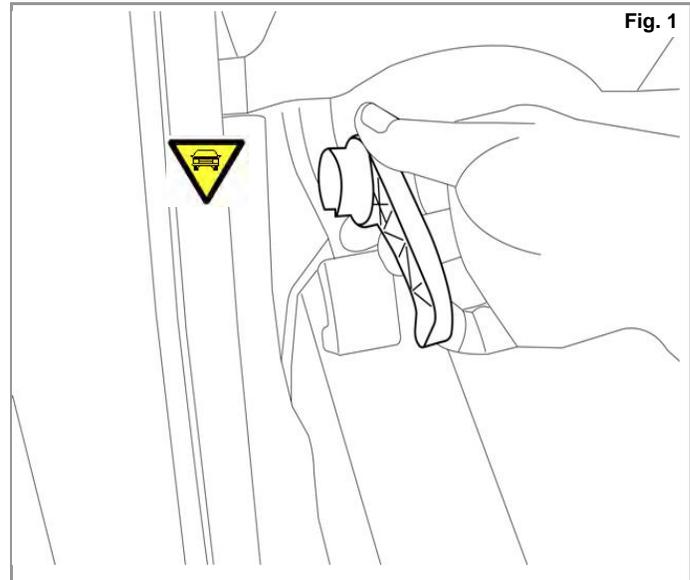
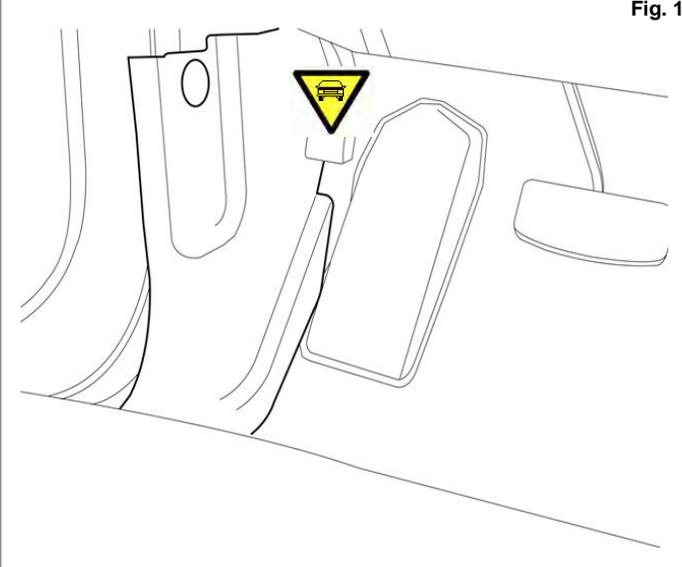


Fig. 1

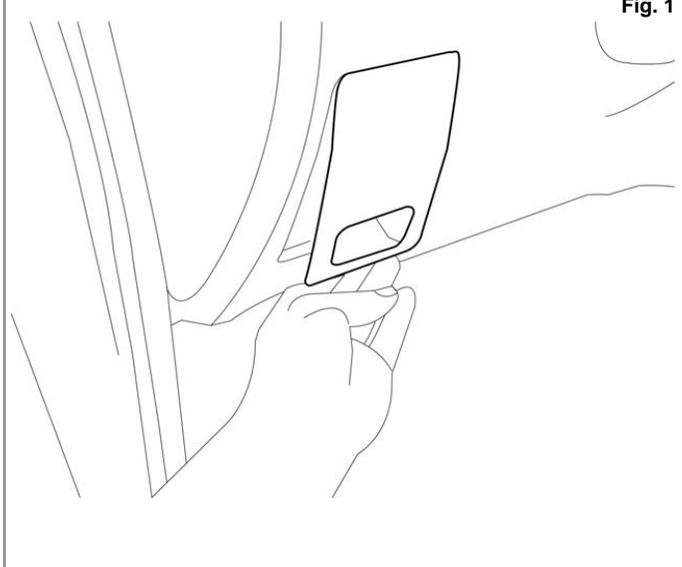
	None	4
N O T E	Disconnect the hood release handle by gently pulling inward as shown in figure 1.	
	Be careful to not damage the plastic clip used to hold the handle to the left kick panel. Place the handle in a clean dry area.	

Fig. 1



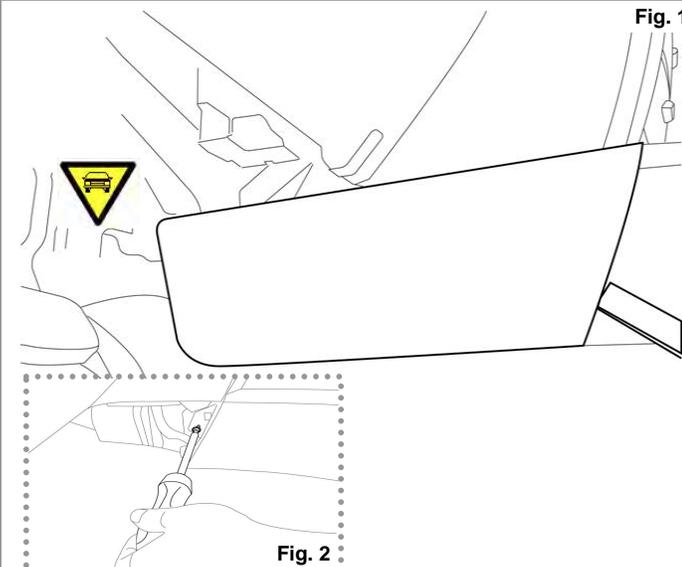
	None	5
N O T E	Remove the left kick panel from the vehicle as shown in figure 1. Ensure that the plastic clips are on the component.	
	Be careful to not damage any clips when removing the left kick panel.	

Fig. 1



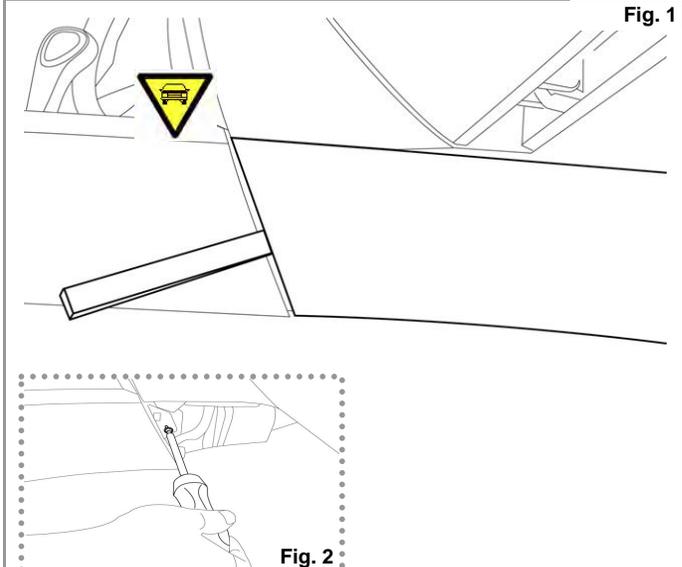
	None	6
N O T E	Remove the fuse panel as shown in figure 1 and place in a clean dry area.	

Fig. 1



	Panel Removal Tool, Phillips Screw Driver	7
N O T E	Using a panel removal tool, remove the passenger side center console forward trim panel as shown in figure 1. - Using the Phillips screwdriver remove the fastener behind the panel as shown in figure 2	
	Do not mar panel when removing	

Fig. 1



	Panel Removal Tool, Phillips Screw Driver	8
N O T E	Using a panel removal tool, remove the passenger side center console forward trim panel as shown in figure 1. - Using the Phillips screwdriver remove the fastener behind the panel as shown in figure 2.	
	Do not mar panel when removing	

Fig. 1

Screws

Fig. 2

	Phillips Screw Driver	9
NOTE	On the passenger side remove the two screws used to secure the lower IP on the passenger side of the vehicle as shown in figure 1. - Lower the panel and remove by pulling rearward as shown in figure 2.	
	Be careful not to mar the panel when removing. Place the panel in a clean dry area	

Fig. 1

	None	10
NOTE	Remove the handle by applying upward pressure as shown in figure 1. - Place the shift knob in a dry clean area.	
	Be careful not to hit the rear view mirror when performing this step.	

Fig. 1

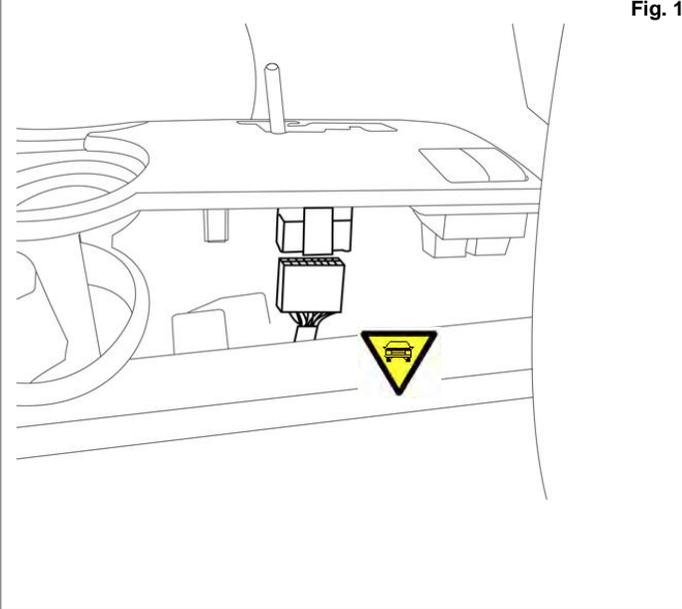
	Panel Removal Tool	11
NOTE	Using the panel removal tool, pry the forward edge of the shifter bezel upward as shown in figure 1.	
	Be careful not to mar the shifter bezel when performing this step	

Fig. 1

→ Clip

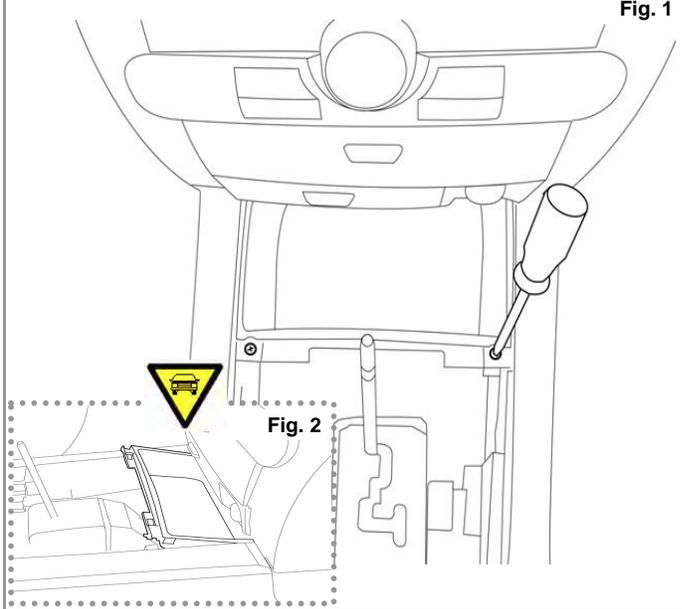
	Panel Removal Tool	12
NOTE	Dislodge the bezel using the panel removal tool. Dislodge the bezel starting from the front and moving rearward as shown in figure 1.	
	Be careful not to bend the shifter bezel when performing this step.	

Fig. 1



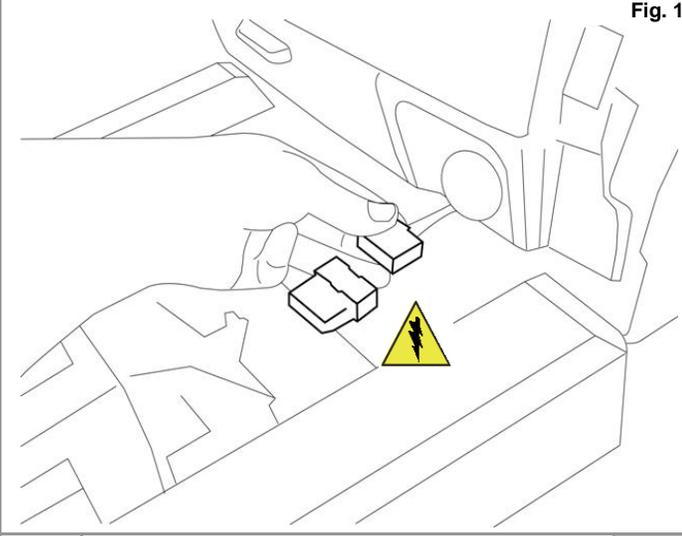
	None	13
NOTE	Remove the switches affixed to the shifter bezel. Once disconnected, remove the bezel as shown in figure 1 and place into a clean dry area.	
	Hold connectors when disconnecting. Do not hold the wires since this may damage the harness.	

Fig. 1



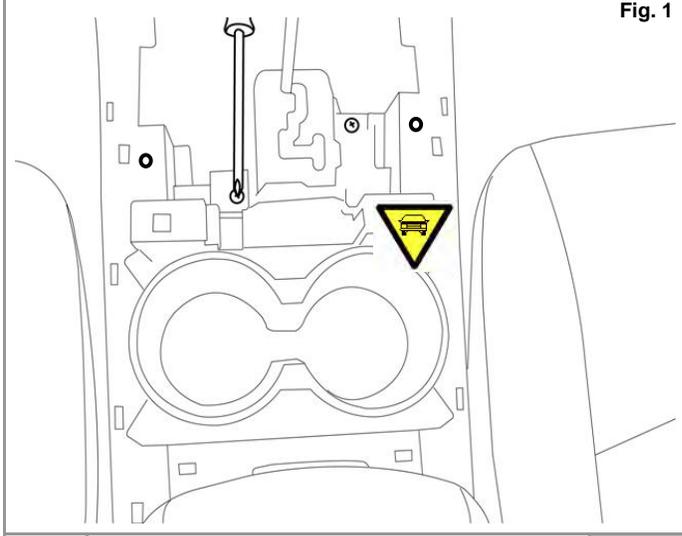
	Phillips Screw Driver	14
NOTE	Using a Phillips screw driver remove the two screws securing the front tray to the center console as shown in figure 1. - Apply upward pressure to dislodge the front tray as shown in figure 2 - Place into a clean dry area	
	Be careful not to mar the front tray when removing the screws.	

Fig. 1



	None	15
NOTE	Disconnect the electrical connector(s) forward of the shifter as shown in figure 1.	
	Only hold the connectors when removing. This will prevent any damage to the wires.	

Fig. 1



	Phillips Screw Driver	16
NOTE	Remove the four screws shown above and place in a safe area as shown in figure 1.	
	Be careful to not strip the screw heads performing this step.	

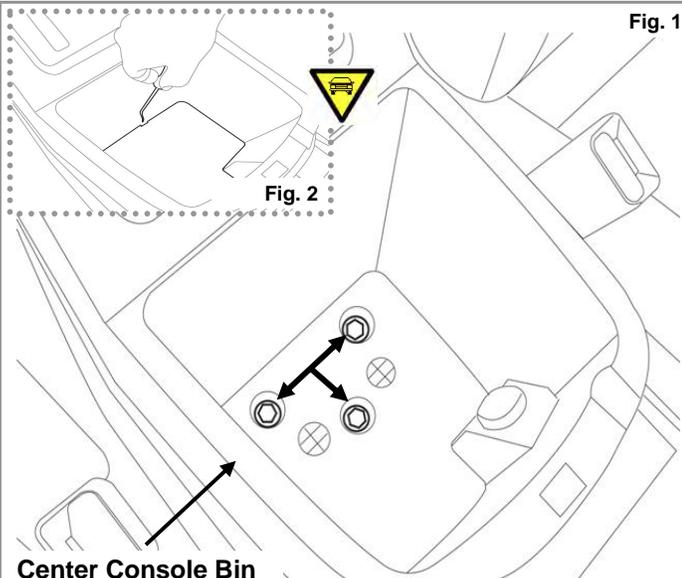


Fig. 1

Fig. 2

Center Console Bin

	Ratchet, Eight Inch Extension, 10mm Socket, Pick Tool	17
NOTE	Remove the cargo liner felt using the pick tool. Place in a clean dry area as shown in figure 2, - Using the ratchet, extension and 10mm socket, remove the three bolts as shown in figure 1. - Place bolts in a safe area.	
	 Be careful not to scratch the container wall with the pick tool when removing the felt liner.	

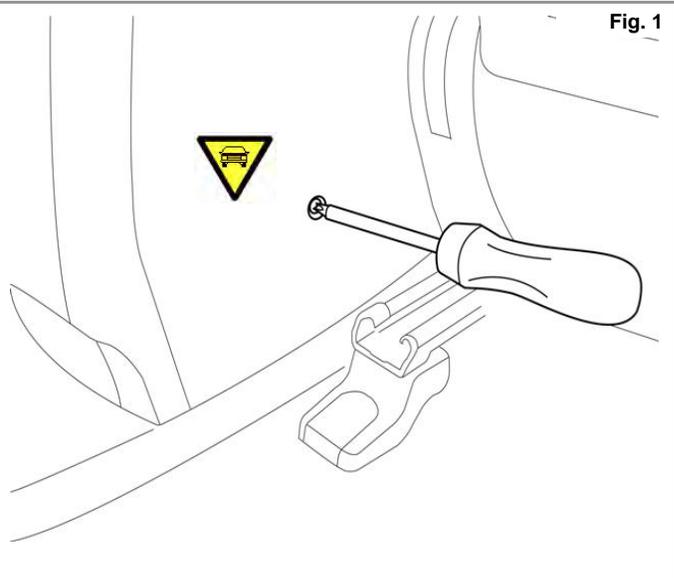
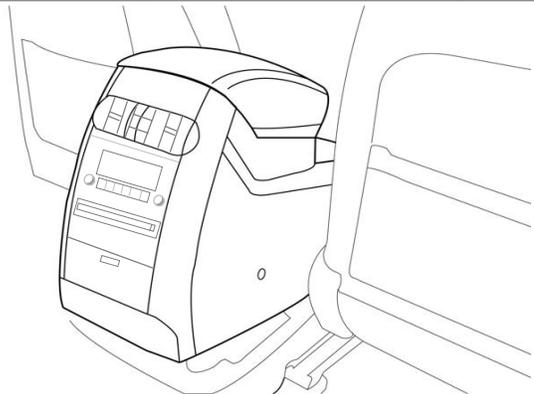
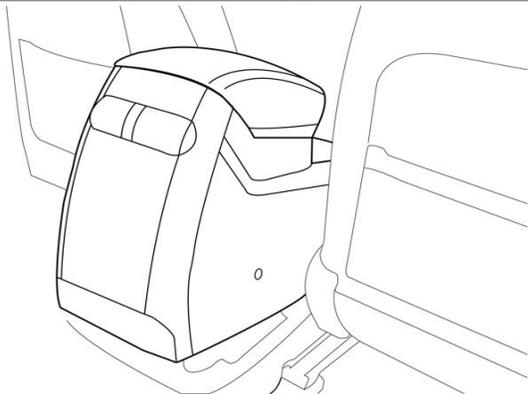


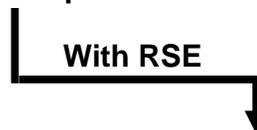
Fig. 1

	Phillips Screw Driver	18
NOTE	Move the drivers and passenger seat to the most forward position. - Remove the screw from the aft end of the center console on the drivers and passenger side as shown in figure 1.	
	 Be careful not to mar the center console bezel when removing the screws.	

KMA Genuine Approved Accessories (Disassembly of Center Console)



The Borrego is equipped with two different center console configurations, with Rear Entertainment System (RSE) and without (RSE). Depending on the center console configuration follow the appropriate steps shown below.



Without RSE Fig. 1

	None	19A
N O T E	Tilt the rear of the center console upward and lift the console out of the vehicle as shown in figures 1 and 2. - Place the console onto a bench top that is free from debris.	
	Ensure the console does not get scratched when performing the next set of steps.	

With RSE Fig. 1

	None	19B
N O T E	Tilt the rear of the center console upward and reach under to disconnect each of the four connectors as shown in figure 2.	
	Be careful not to pull on the harness when disconnecting from the center console.	

Without RSE Fig. 1

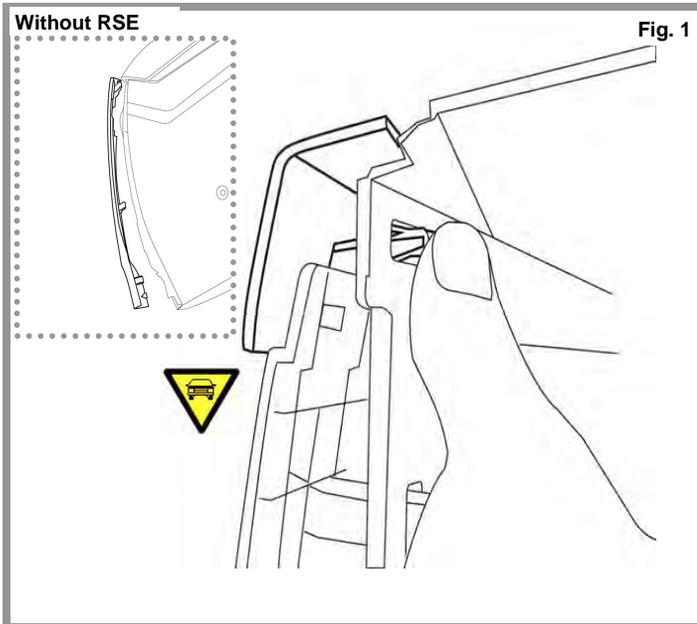
Center Console Lid

Trim Panel

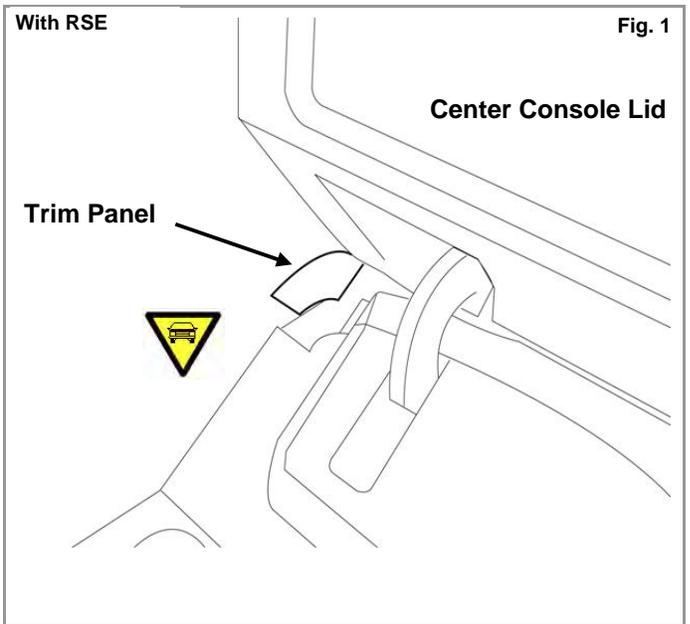
	None	20A
N O T E	Gently press rearward on the trim panel until it dislodges from the center console as shown in figure 1.	
	Be careful not to damage the rear console trim panel when dislodging.	

With RSE Fig. 1

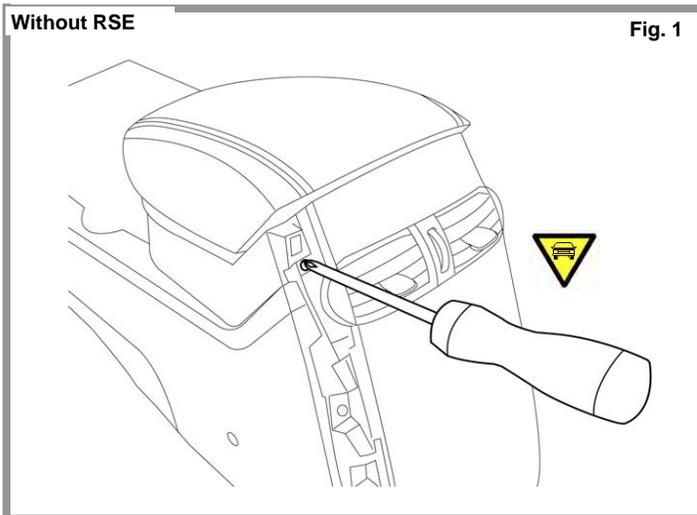
	None	20B
N O T E	Tilt the rear of the center console upward and lift the console out of the vehicle as shown in figures 1 and 2. - Place the console onto a bench top that is free from debris.	
	Ensure the console does not get scratched when performing the next set of steps.	



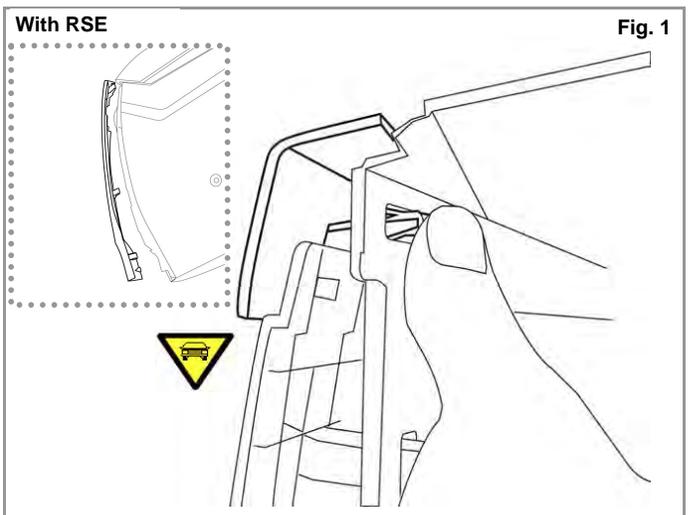
None		21A
N O T E	Dislodge the trim panel as shown. Be careful to not damage trim panel as shown in figures 1 and 2.	
	Remove the panels and place them into a clean dry area.	



None		21B
N O T E	Gently press rearward on the trim panel until it dislodges from the center console as shown in figure 1.	
	Be careful not to damage the rear console trim panel when dislodging.	

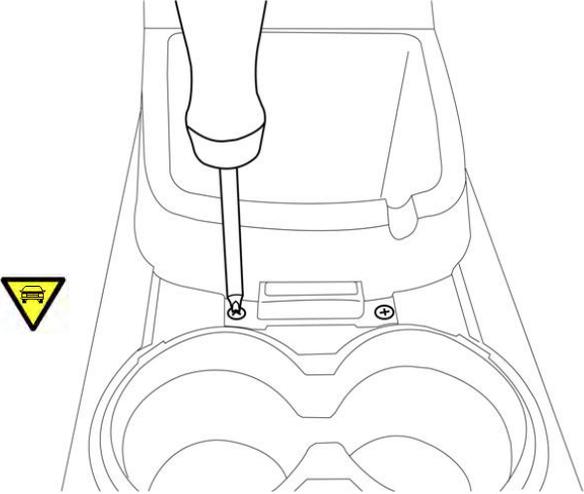


Phillips Screw Driver		22A
N O T E	Remove the two upper screws on the center console as shown in figure 1. - Place the screws in a safe.	
	Be careful not to strip the screws when removing them from the center console.	



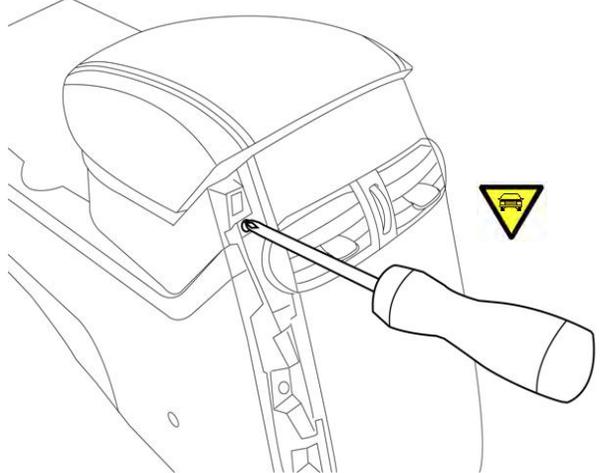
None		22B
N O T E	Dislodge the trim panel as shown. Be careful to not damage trim panel as shown in figures 1 and 2.	
	Remove the panels and place them into a clean dry area.	

Without RSE Fig. 1



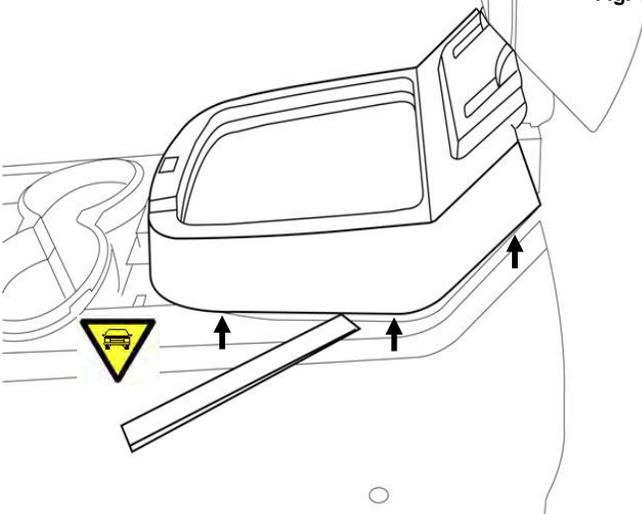
	Phillips Screw Driver	23A
N O T E	Remove the two screws just aft of the cup holders in the center console as shown in figure 1. - Place screws in a safe area.	
	Be careful not to scratch the cup holder when removing the screws.	

With RSE Fig. 1



	Phillips Screw Driver	23B
N O T E	Remove the two upper screws on the center console as shown in figure 1. - Place the screws in a safe.	
	Be careful to not strip the screws when removing them from the center console.	

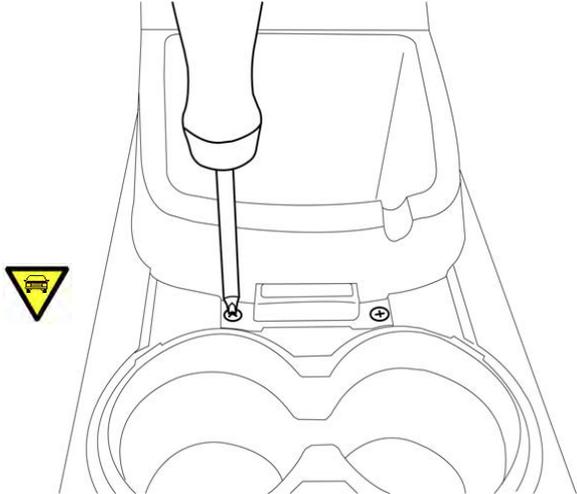
Without RSE Fig. 1



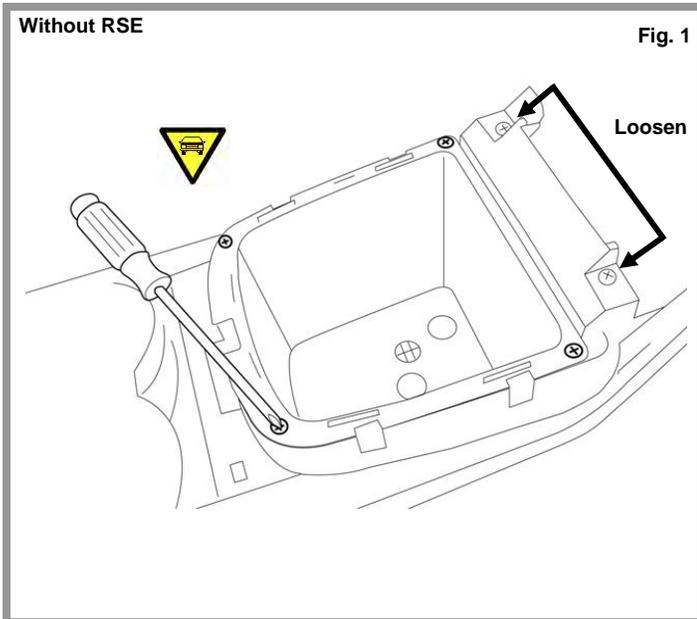
→ Clip

	Panel Removal Tool	24A
N O T E	Carefully remove the center console bin bezel from the center console as shown in figure 1.	
	Be especially careful when removing the trim component to prevent damage to the bezel.	

With RSE Fig. 1



	Phillips Screw Driver	24B
N O T E	Remove the two screws just aft of the cup holders in the center console as shown in figure 1. - Place screws in a safe area.	
	Be careful not to scratch the cup holder when removing the screws.	

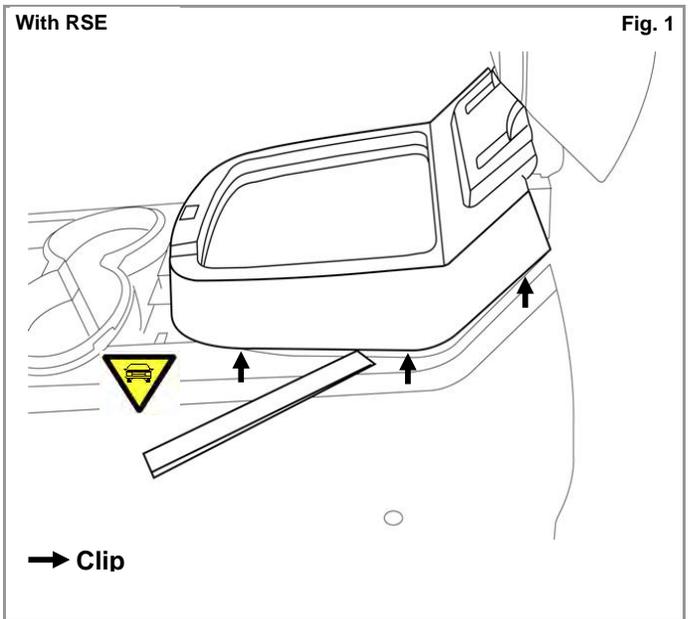


Phillips Screw Driver 25A

NOTE

- Remove the four screws holding the center console bin to the center console as shown in figure 1.
- Place the screws in a safe location.
- Loosen two upper screws.

Be careful not to strip the screws when removing from the center console.

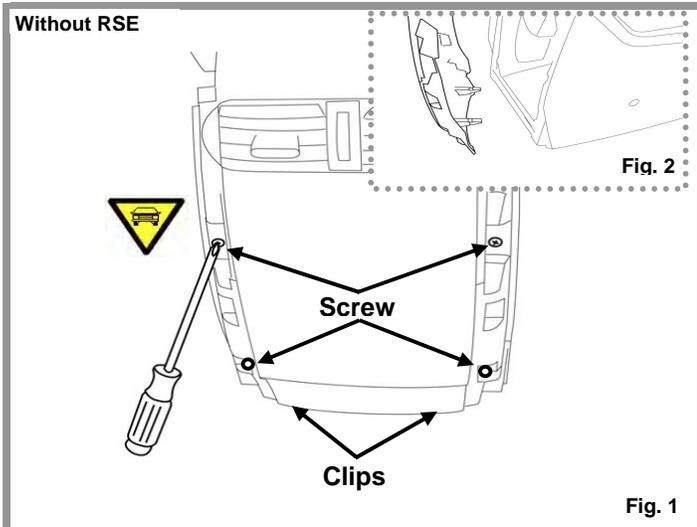


Panel Removal Tool 25B

NOTE

- Carefully remove the center console bin bezel from the center console as shown in figure 1.

Be especially careful when removing the trim component to prevent damage to the bezel.

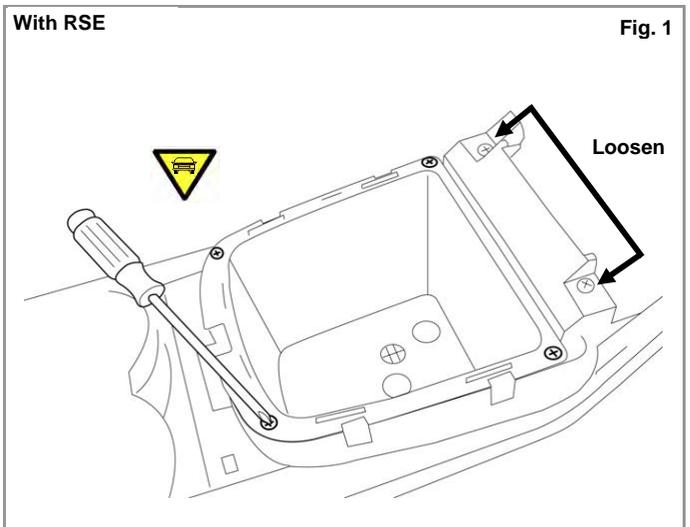


Phillips Screw Driver 26A

NOTE

- Remove the four lower screws from the center console as shown as shown in figure 1.
- Place the screws in a safe location.
- Dislodge the clips from the base of the center console as shown in figure 2.
- Place the bezel in a safe location.
- Disconnect any connectors as needed to remove panel.

Do not mar the panel when removing the rear console.



Phillips Screw Driver 26B

NOTE

- Remove the four screws holding the center console bin to the center console as shown in figure 1.
- Place the screws in a safe location.
- Loosen two upper screws.

Be careful not to strip the screws when removing from the center console.

Without RSE Fig. 1

Bottom Surface of Console

Harness Clip

Harness Clips

Fig. 2

	Phillips Screw Driver	27A
NOTE	Carefully turn the center console over on the bench. - Remove the two harness clips shown in figure 2. - Using a Phillips screw driver remove the five screws holding the two ducts as shown in figure 1. - Remove the ducts and set aside	
	Be careful not to damage the harness clips when removing.	

With RSE Fig. 1

Harness Clip

Bottom Surface of Console

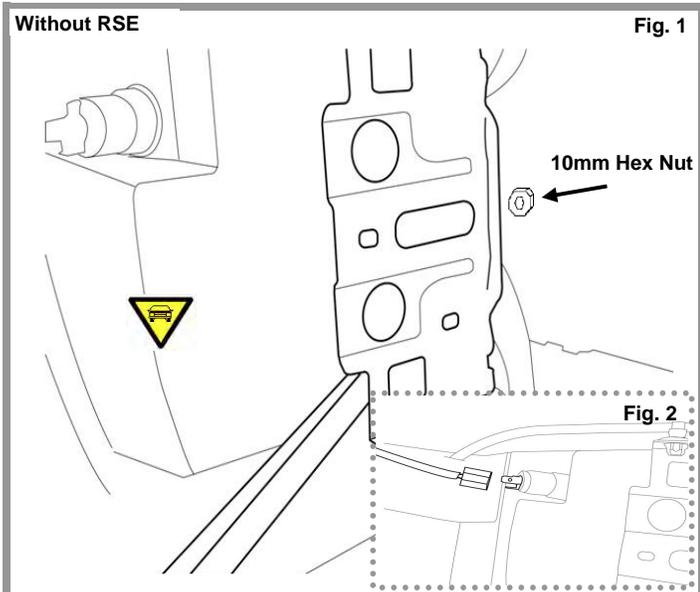
	Phillips Screw Driver	27B
NOTE	Carefully turn the center console over on the bench. - Using a Phillips screw driver remove the four screws holding the two ducts as shown in figure 1. - Remove the clip securing the harness to the duct. - Remove the ducts and set aside	
	Be careful not to damage the harness clips when removing.	

Without RSE Fig. 1

	Phillips Screw Driver	28A
NOTE	Remove the 10 Phillips head screws securing the upper console left & right side trim pieces as shown in figure 1.	
	Place the screws in a safe location.	

With RSE Fig. 1

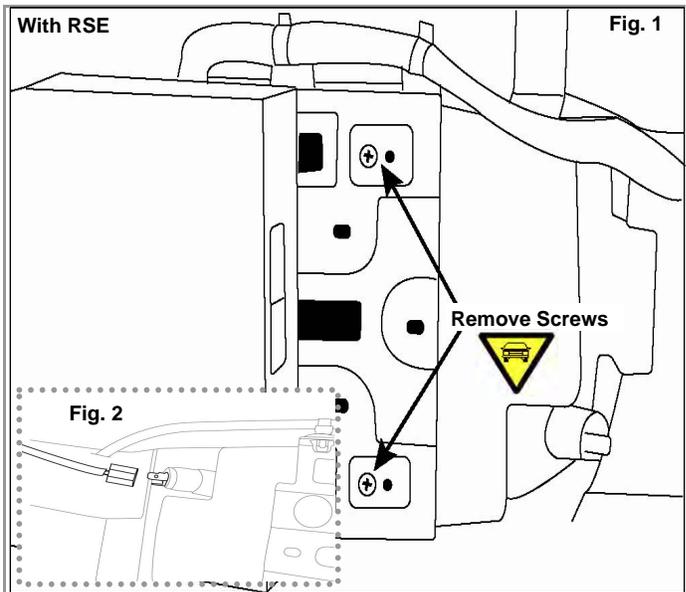
	Phillips Screw Driver	28B
NOTE	Remove the 10 Phillips head screws securing the upper console left & right side trim pieces as shown in figure 1.	
	Place the screws in a safe location.	



Panel Removal Tool 29A

NOTE Use a panel removal tool to assist in freeing bin tabs from the metal mounting point as shown in figure 1.
 - Remove the 12 volt connector on the bottom of bin as shown in figure 2
 - Temporarily Loosen 10mm hex nut.

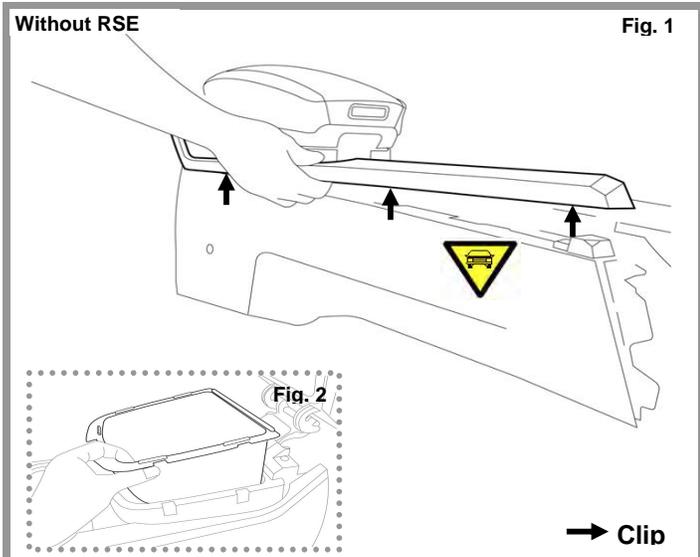
Pry gently to not damage the center console bin.



Phillips Screw Driver 29B

NOTE Use a Phillips screw driver to disconnect the bin from the as shown in figure 1.
 - Remove the 12 volt connector on the bottom of bin as shown in figure 2

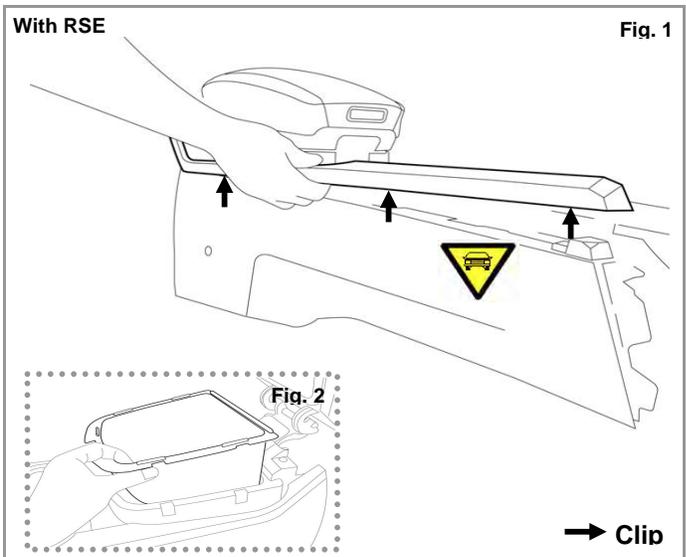
Place screws in a safe location. These two screws WILL NOT BE REINSTALLED and will be discarded.



None 30A

NOTE Turn Console back upright and remove the bin from the center console as shown in figure 2.
 - Remove the upper trim console pieces as shown in figure 1.
 - After removing bin, tighten 10mm hex nut loosened in step 29A.

Be careful not to damage the upper trim components when removing.



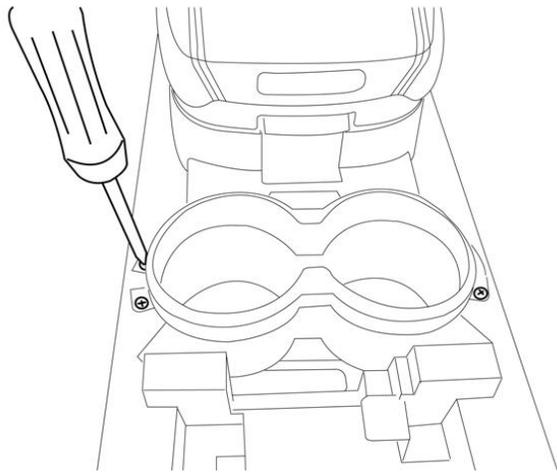
None 30B

NOTE Turn Console back upright and remove the bin from the center console as shown in figure 2.
 - Remove the upper trim console pieces as shown in figure 1.

Be careful not to damage the upper trim components when removing.

Without RSE

Fig. 1



Phillips Screw Driver

31A

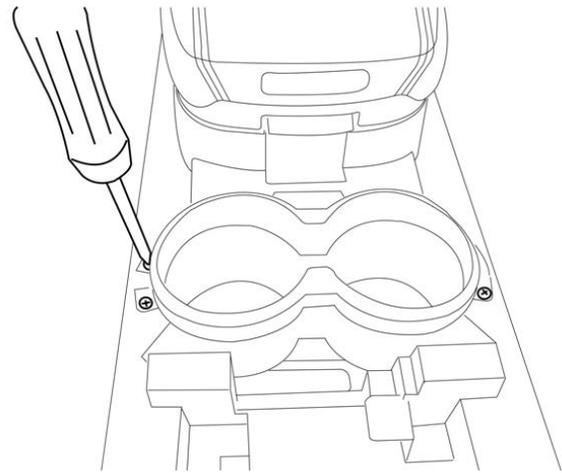
**N
O
T
E**

Remove the four screws securing the cup holder to the center console as shown in figure 1.
- Place the screws and the cup holder in a clean dry area.

Be careful not to damage the cup holder when removing the four screws.

With RSE

Fig. 1



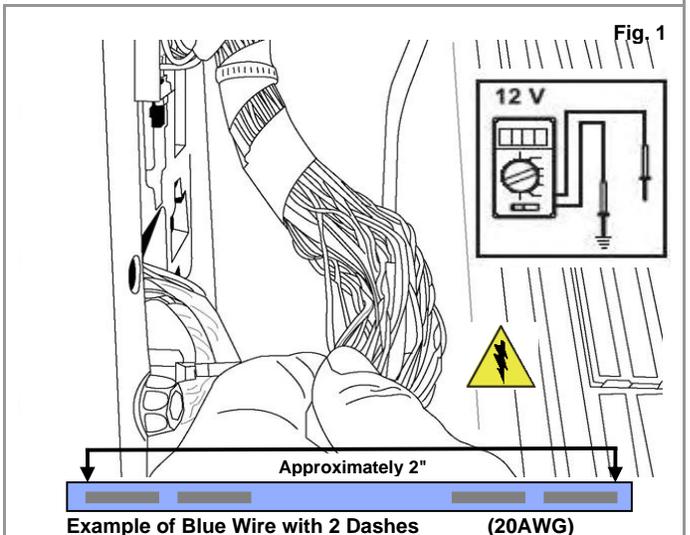
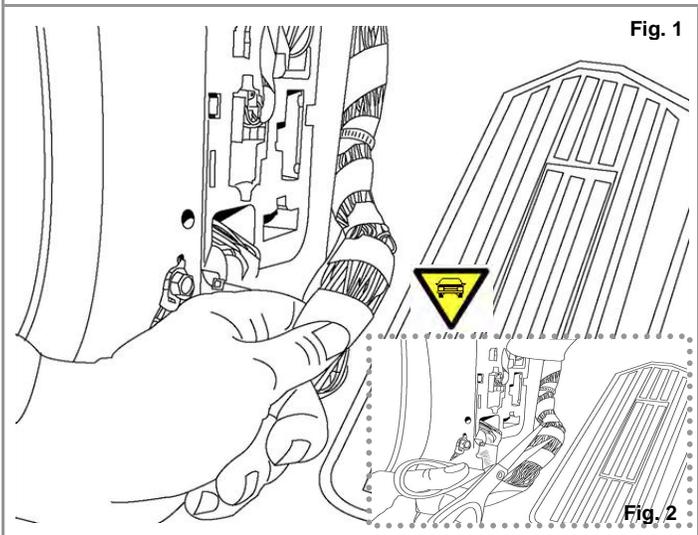
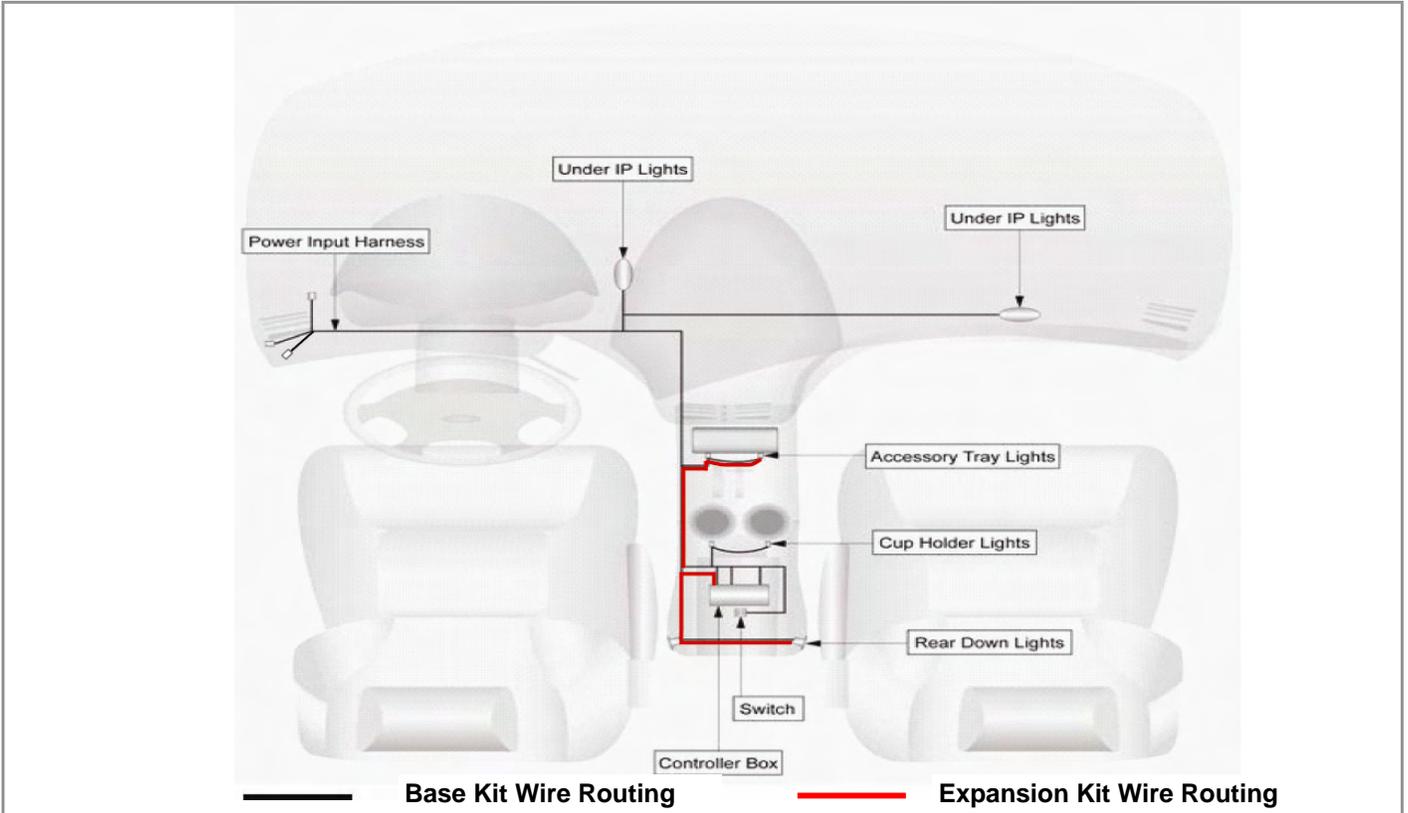
Phillips Screw Driver

31B

**N
O
T
E**

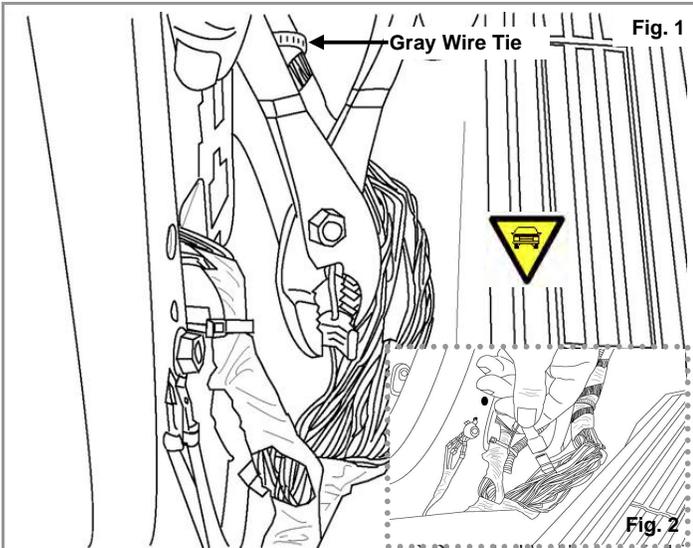
Remove the four screws securing the cup holder to the center console as shown in figure 1.
- Place the screws and the cup holder in a clean dry area.

Be careful not to damage the cup holder when removing the four screws.



	Scissors	1
N O T E	Locate Main Vehicle Harness forward of driver side lower kick panel as shown in figure 1. - Carefully move the harness at the bend to access. - With a pair of scissors carefully remove the tape to access the wire as shown in figure 2.	
	Be careful not to nick any other wires in the harness when performing this operation. Save the trimmed tape and reapply after the step is completed.	

	Multi Meter	2
N O T E	Locate and ID the blue wire with 2 dark blue dashes printed on wire jacket approximately every 2 inches as shown in figure 1. Do not use blue twisted wire (CAN Circuit); blue with black tracer, blue with 1 dash, or the 2 larger gauge blue wires. Verify with voltmeter.	
	Use voltmeter to check for proper circuit. Ensure the center dome light switch is in the "door" position. When door is open voltmeter should read 0 volts. When door is closed and dome lamp goes off voltmeter should read 12 volts.	

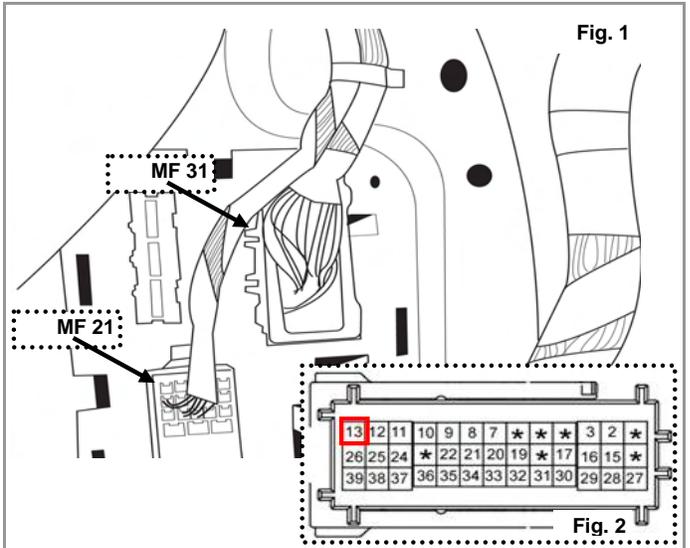


Pliers **3**

NOTE

- Install the provided T-Tap onto the blue wire with 2 dark blue dashes identified in step 2, using a pair of pliers as shown in figure 1.
- Locate the T-Tap approximately two inches below the gray vehicle wire tie.
- Carefully insert the male spade terminal marked (Connect to Dome Lamp Circuit) from the drivers side signal harness shown in figure 2.

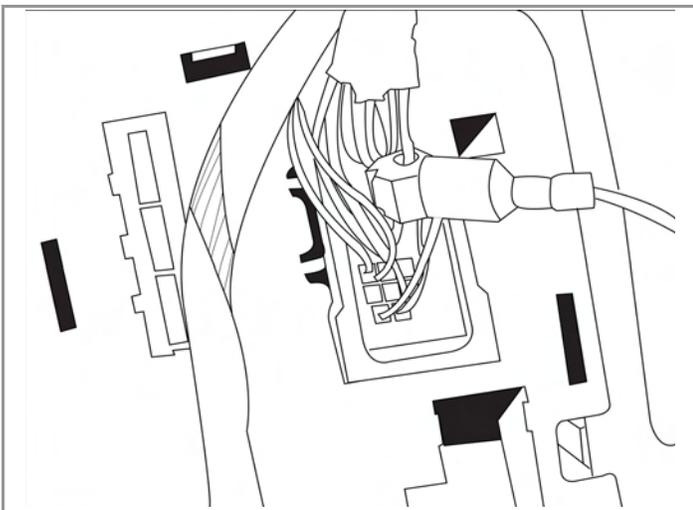
Reinstall previously removed tape before proceeding.



4

NOTE

- Locate and Identify 39 Pin Connector at lower driver side kick panel (Connect ID MF31) shown in figure 1. Locate and Identify WHITE Wire / Pin 13 of the 39 Pin Connector. Shown in figure 2 (from terminal view)
- Note - This connection will provide B+ (unswitched) power to the system.
- Temporarily disconnect the 39 pin connector for ease of installation.

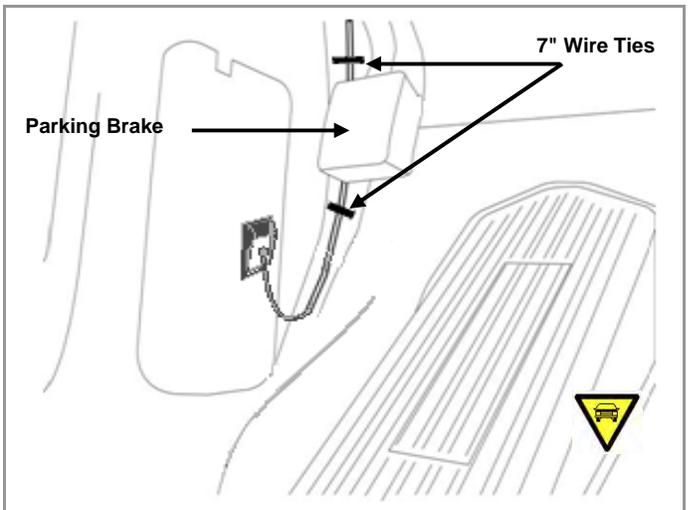


5

NOTE

- Install the provided T-Tap onto the WHITE wire identified in step 4 using a pair of pliers as shown in figure 1.
- Carefully connect the WHITE wire with male quick disconnect labeled (Connect to B+ circuit T-tap) from the light kit wire harness to the T-tap.

Make sure quick disconnect is inserted securely to t-tap
Ensure that the 39 pin connector is re-attached to the vehicle before moving to the next step.

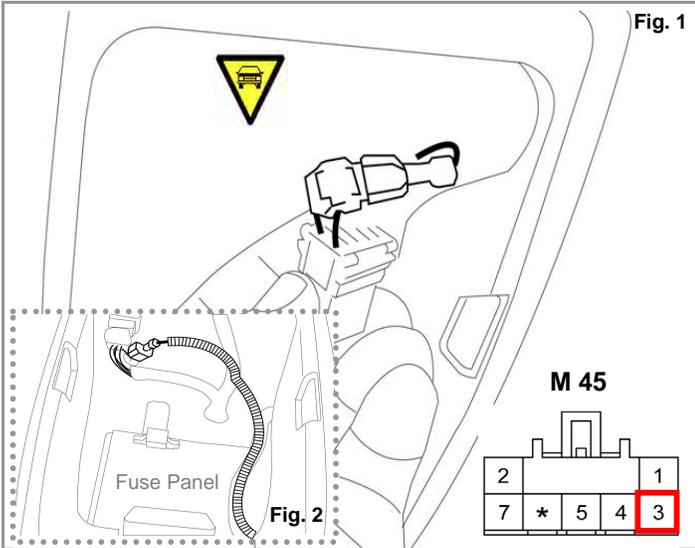


Diagonal Cutters **6**

NOTE

- Route the harness following the vehicle harness toward front of vehicle up firewall and behind parking brake pedal.
- Follow harness to underside of lower IP.
- Secure with 2 seven inch wire ties to the main harness. Using three of the four inch wire ties, Secure the harness up to the fuse panel.

Be careful not to route the wire harness such that it could interfere with the brake pedal mechanism. Be careful not to nick the wires when cutting the excess wire tie.



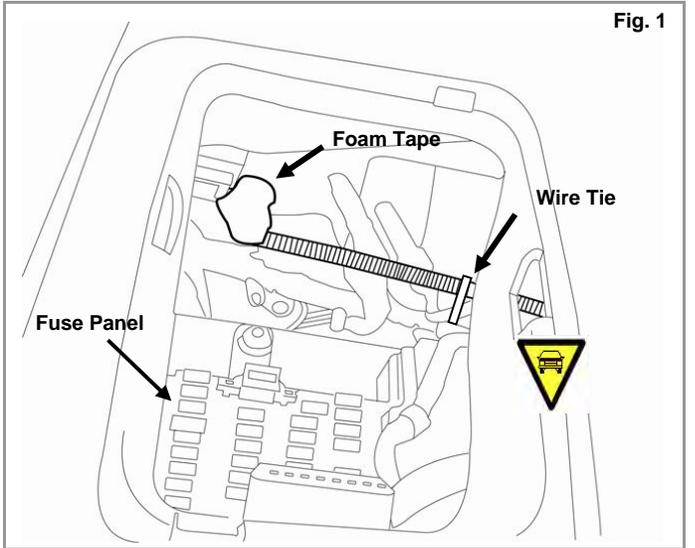
7 Pliers

NOTE

- Run breakout wire from harness toward the rheostat connector up past fuse panel as shown in figure 2.
- Disconnect the rheostat connector from the vehicle.
- Using a pair of pliers locate the red wire (pin #3) and lock the provided t-tap onto the M 45 connector as shown in figure 1 (from terminal view).
- Attach the male spade connector marked (Head Lamp rheostat connector) to the T-Tap. Re-install the vehicle M 45 connector.

NOTE

- Ensure the spade connector fully inserts into the T-Tap prior to moving to the next step.
- Wrap the t-tap and connector with one piece of foam tape in step 8.



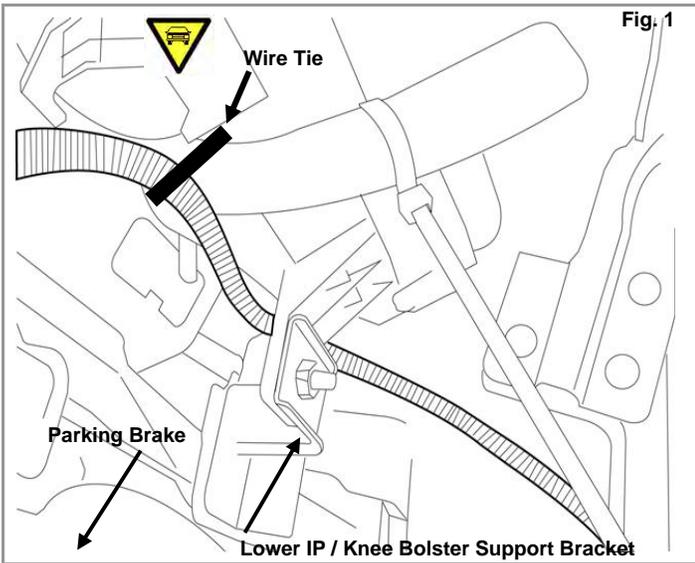
8 Diagonal Cutters

NOTE

- Secure the harness to the vehicle harness using one wire tie in figure 1.
- Ensure that the harness does not cross in front of the fuse panel.
- Cut off excess wire tie.

NOTE

- Be careful not to nick any other wires in the harness when performing this operation.



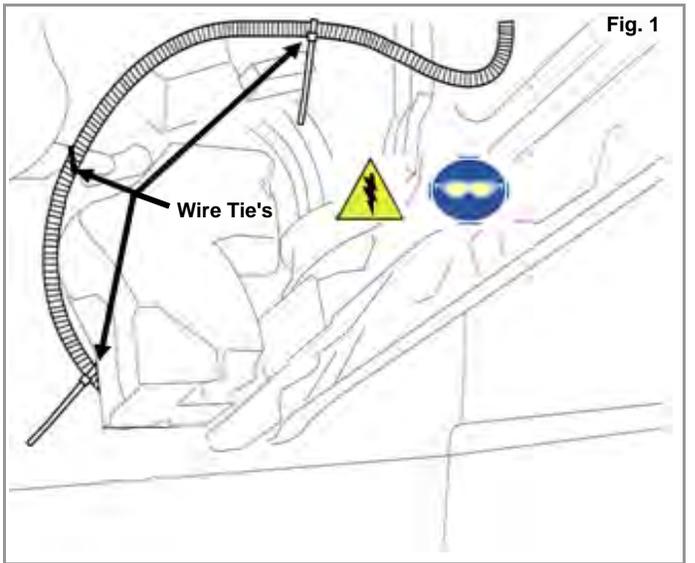
9 None

NOTE

- Run harness behind bracket and then across towards the lower IP. Secure using one wire tie as shown in figure 1.

NOTE

- Be careful not to nick any other wires in the harness when performing this operation.



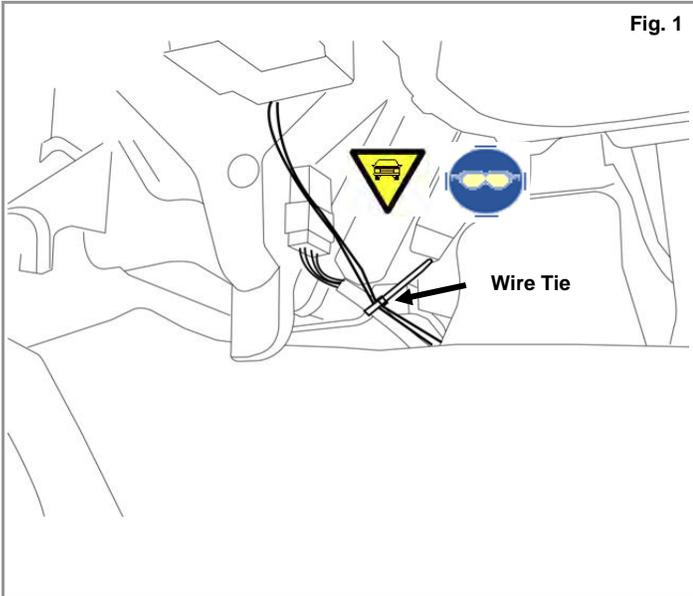
10 Diagonal Cutters

NOTE

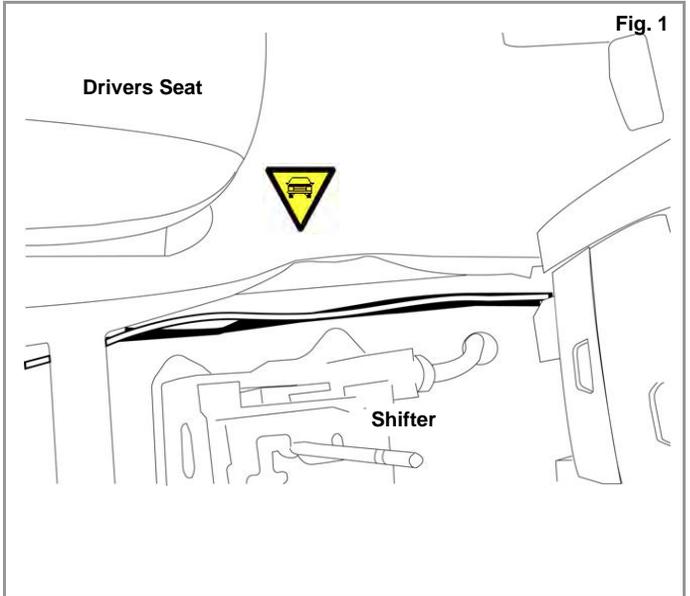
- Continue routing harness across driver side IP and under steering column toward the center side console. Secure with 4" wire ties.
- Avoid yellow airbag harness and sharp metal brackets as shown in figure 1.

NOTE

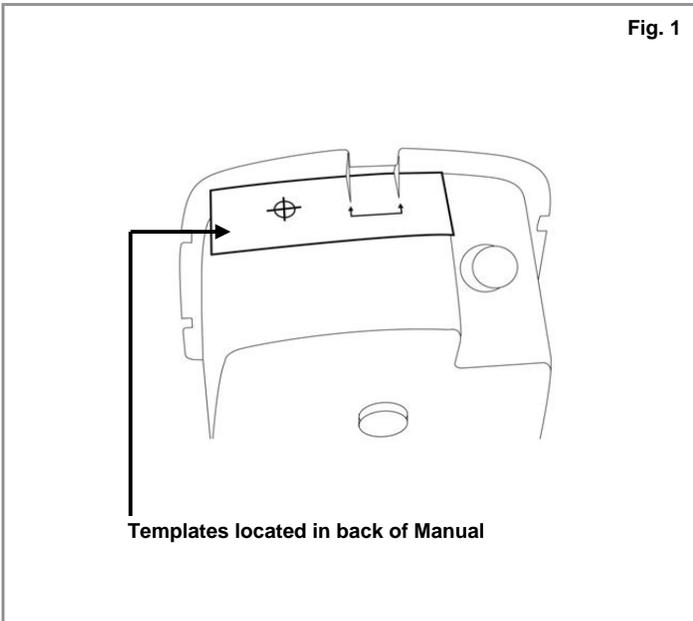
- Be careful not to nick any other wires in the harness when performing this operation.



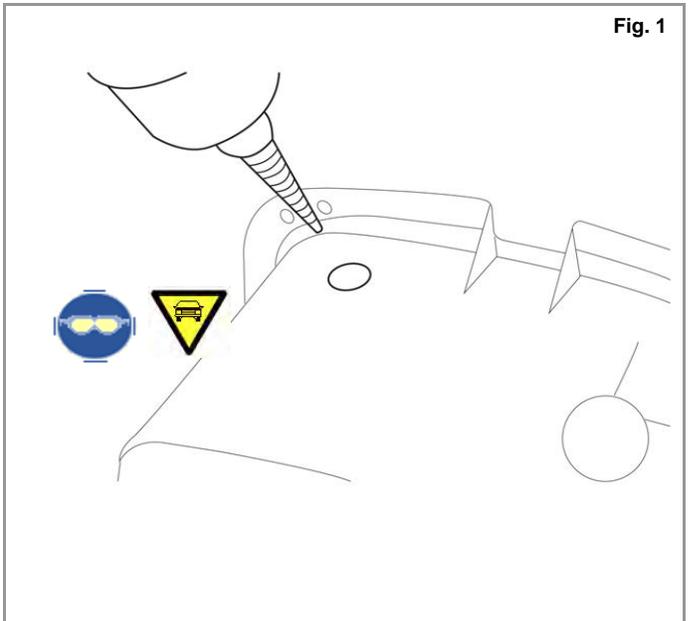
	Diagonal Cutters	11
N O T E	Follow vehicle harness into center console area securing to the vehicle harness using one wire tie as shown in figure 1.	
	Be careful not to nick any other wires in the harness when performing this operation.	



		12
N O T E	Route the harness into the center console area on left side as shown. Follow harness towards the rear of console area as shown in figure 1.	
	Be careful to route the harness such that it does not interfere with the shifter mechanism.	



	Center Punch	13
N O T E	Use the switch drill template and using a center punch mark the console bin for the pilot hole for switch installation as shown in figure 1.	
	Ensure the template is fully seated onto the center console bin prior to marking the location.	



	Drill motor and 3/8" Step bit	14
N O T E	Drill pilot hole with a 1/8" drill. Use a step drill and drill a 3/8" hole in console bin for switch as shown in figure 1.	
	Be careful not to oversize the hole in the center bin when drilling the hole.	

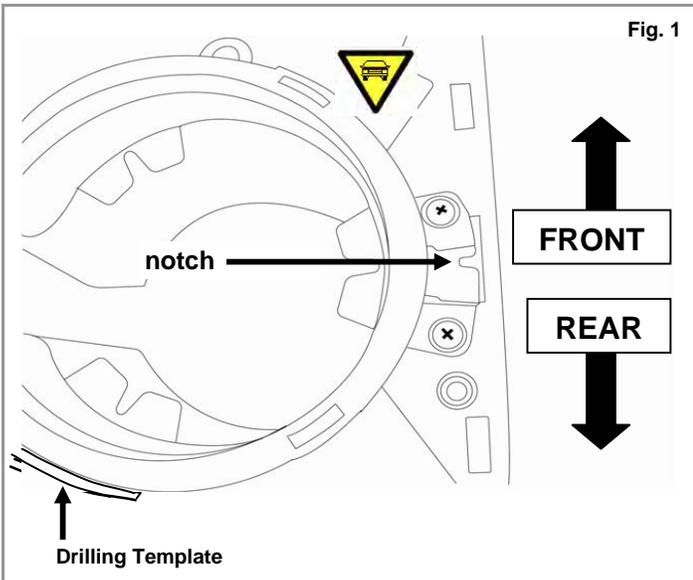


Fig. 1

	None	15
NOTE	Check cup holder assembly. The notch between the mounting screws is toward the front of the vehicle. You must mark and drill for the cup holder lights on the rear of the cup holder as shown in figure 1.	

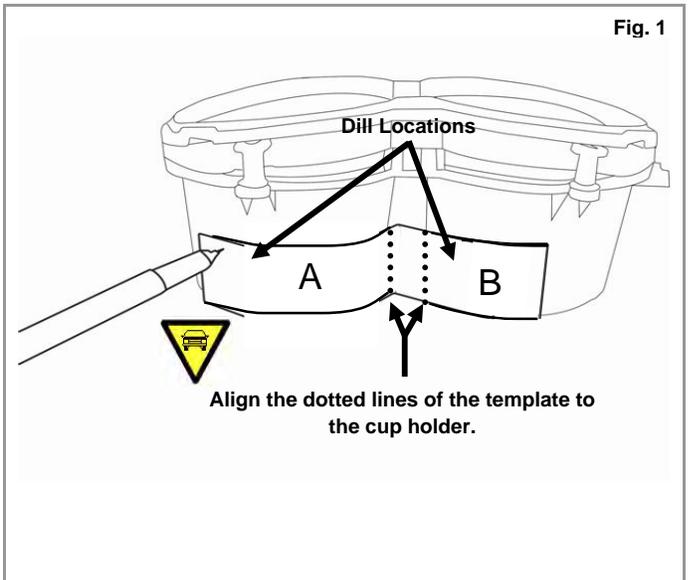


Fig. 1

	Center Punch	16
NOTE	Use the drill template and align the two dotted lines as shown. With a center punch mark the two position of the holes to be drilled as shown in figure 1.	
	Ensure that you properly orient the cup holder such that the holes will face away from the driver seat.	

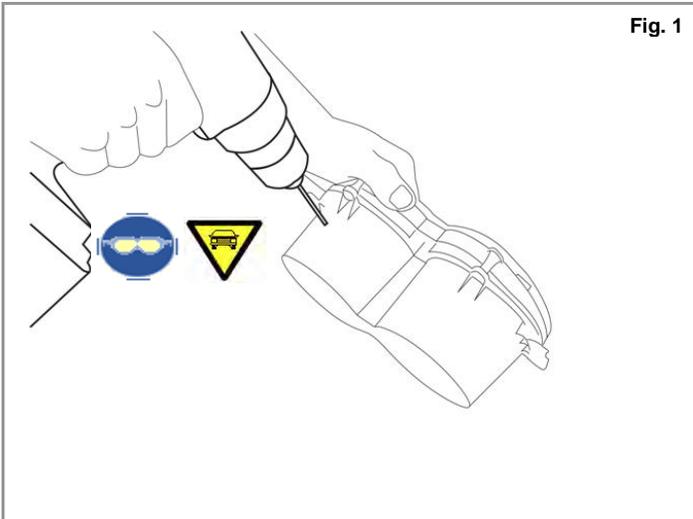


Fig. 1

	Drill motor and 1/8" Drill bit & 5/16" drill bit	17
NOTE	Drill a 1/8" pilot hole. -Then drill a 5/16" hole for cup light lens installation as shown in figure 1.	
	Be careful that when the drill passes through the wall of the cup holder that it does not hit the inner wall on the other side. A drill stop is recommended if available when performing this operation.	

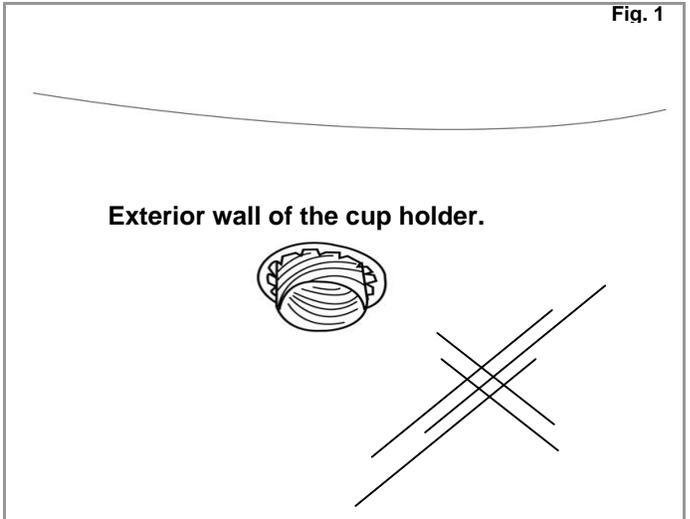
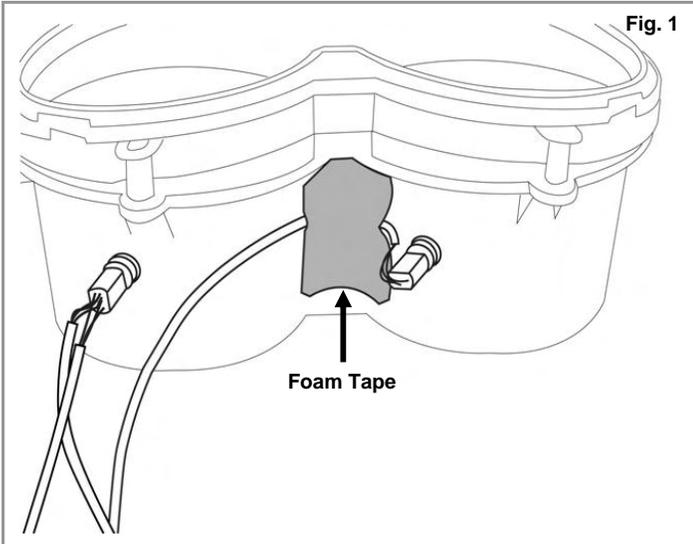
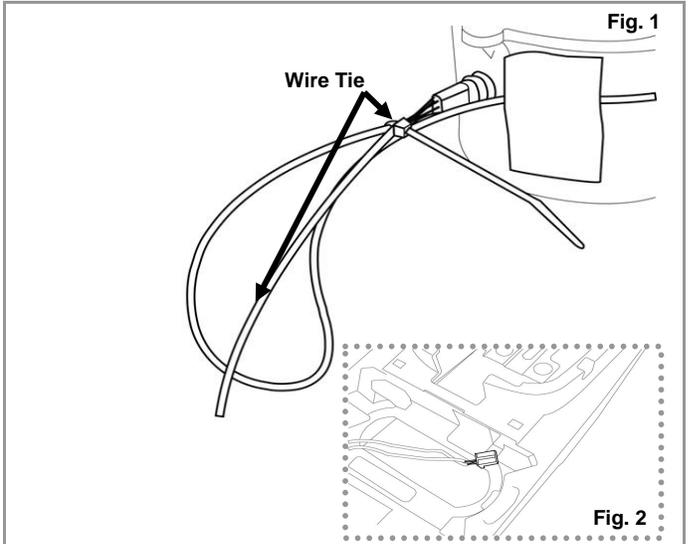


Fig. 1

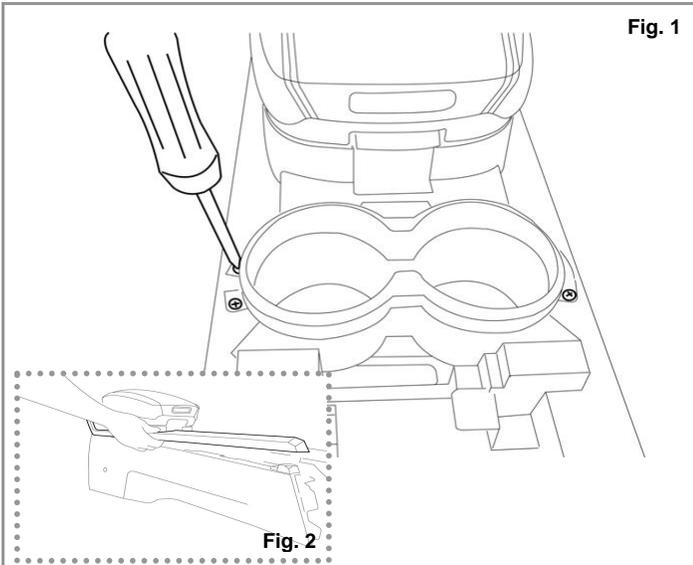
	None	18
NOTE	Insert the lens through the drilled hole from the inside of the cup and place washer onto the lens housing as shown in figure 1.	



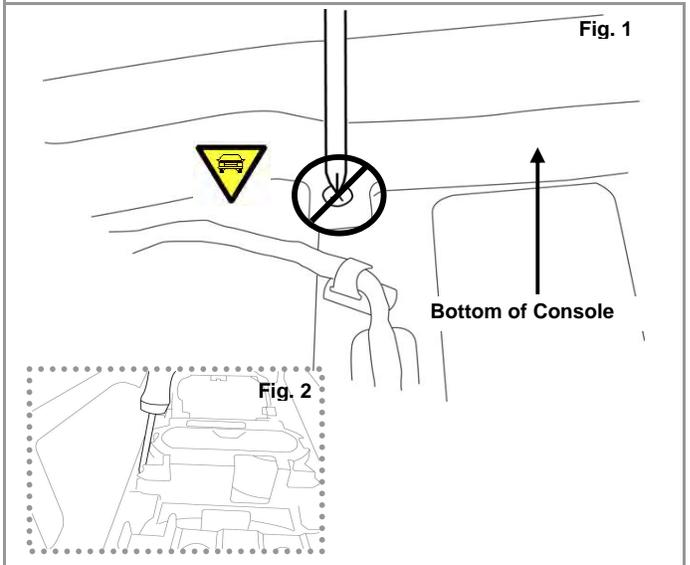
	None		19
NOTE	Install cup holder harness with the light housing with dual wire attached on the driver's side and the housing with the single wire attached on the passenger side. Secure wire as shown with foam pad as shown in figure 1.		



	Diagonal Cutters		20
NOTE	Bundle cup holder harness as shown with 2 wire ties. Shown with first wire tie in place. - Reinstall the cup holder into its original position routing the cable through as shown in the inset picture to allow clearance as shown in figure 1.		
	Confirm that the harness does not pinch when reinstalled onto the center console.		



	Phillips Screw Driver		21
NOTE	Secure the cup holder assembly to the center console using the four screws removed as shown in figure 1. - Reassemble the center console top trim assembly's upper trim components in figure 2. Reinstall the single securing screw next to the cup holder on the left and right sides.		



	Phillips Screw Driver		22
NOTE	Carefully turn the console over exposing the underside. - Reinstall the 10 Phillips head screws securing the upper console left & right side trim pieces as shown in figure 2. - Reinstall the ducting on the left and right side of the center console. - DO NOT reinstall the screw on the drivers side at this point as shown in figure 1. - This will be installed at step #24.		

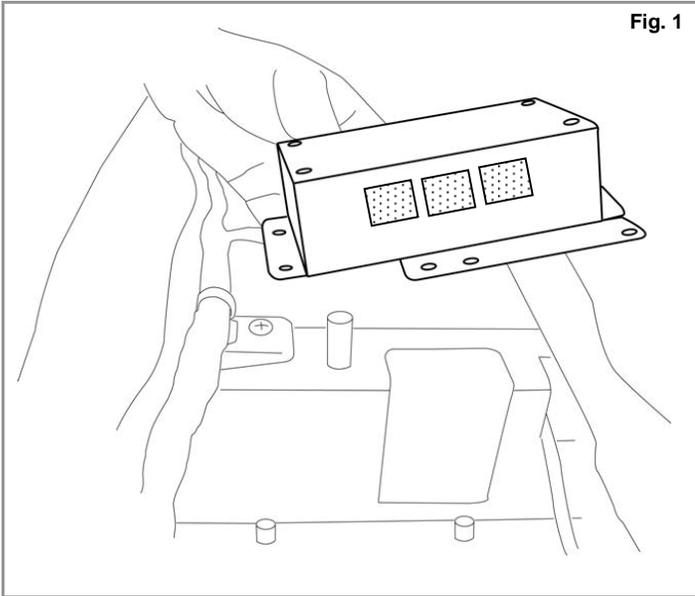


Fig. 1

		23
N O T E	Orient the control module such that the connectors face towards the rear of the center console as shown in figure 1.	

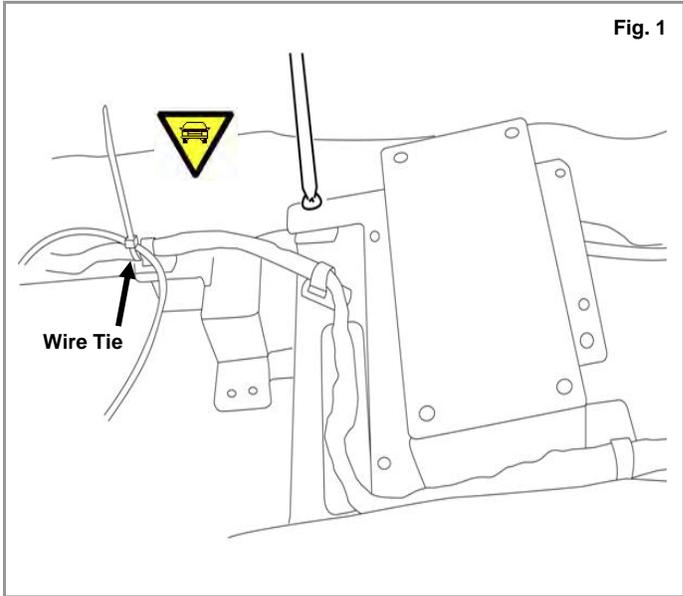


Fig. 1

	Phillips Screw Driver	24
N O T E	Reinstall the final screw for the ducting. The screw now captures controller box bracket as shown in figure 1.	
	Do not over torque the screw.	

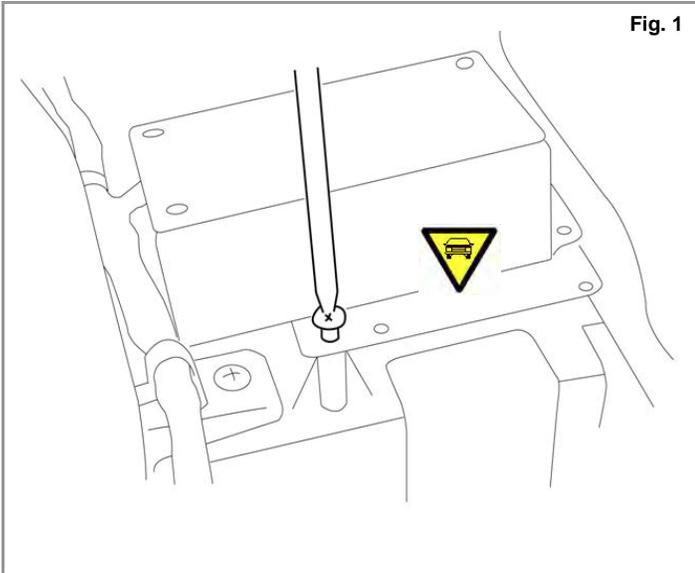


Fig. 1

	Phillips Screw Driver	25
N O T E	Install supplied bracket screw onto the post. The controller board connectors face to the rear of the center console as shown in figure 1.	
	Do not over torque the screw.	

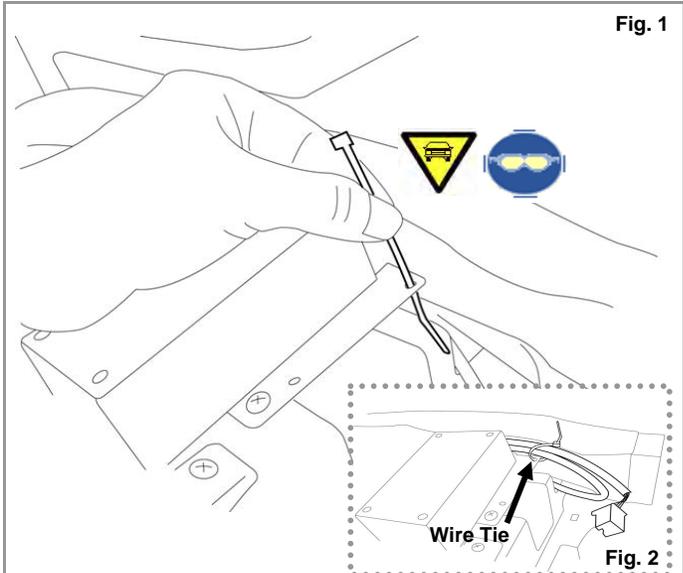
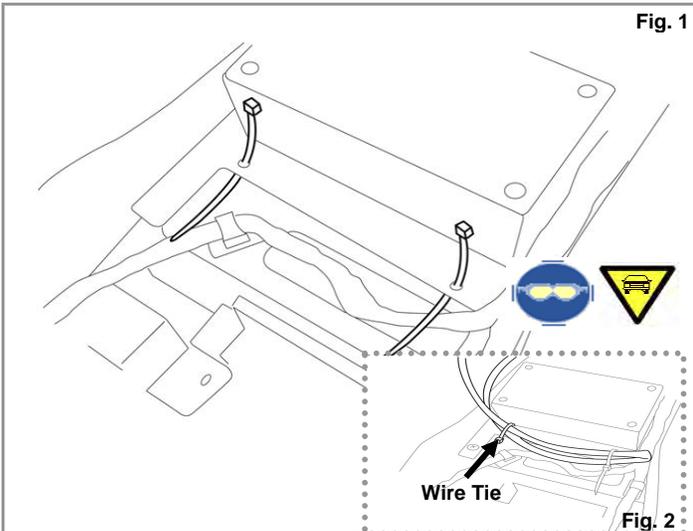


Fig. 1

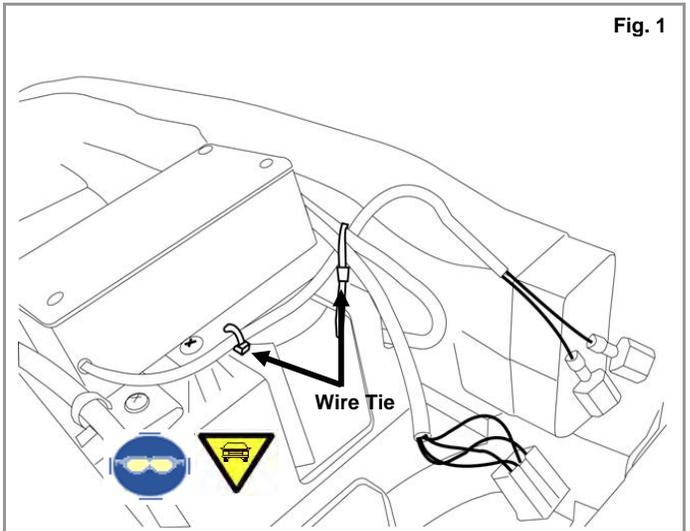
	Diagonal Cutters	26
N O T E	Install 4" wire ties into the holes on the controller board bracket. Shown is first wire tie in figure 1. - Bundle the cup holder harness as shown in the inset picture as shown in figure 2.	
	Be careful not to nick any other wires in the harness when performing this operation.	



Diagonal Cutters **27**

NOTE
Double back the harness onto its self and secure the harness with the third and fourth wire tie as shown in figures 1 and 2.

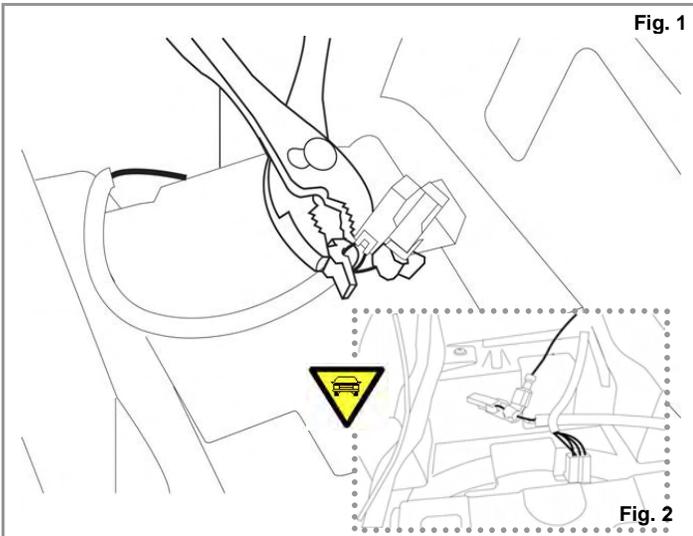
NOTE
Be careful not to nick any other wires in the harness when performing this operation.



Diagonal Cutters **28**

NOTE
Route controller box power wires across and in front of connector opening. Secure cup holder harness and controller box power wire with first wire tie as shown in figure 1.

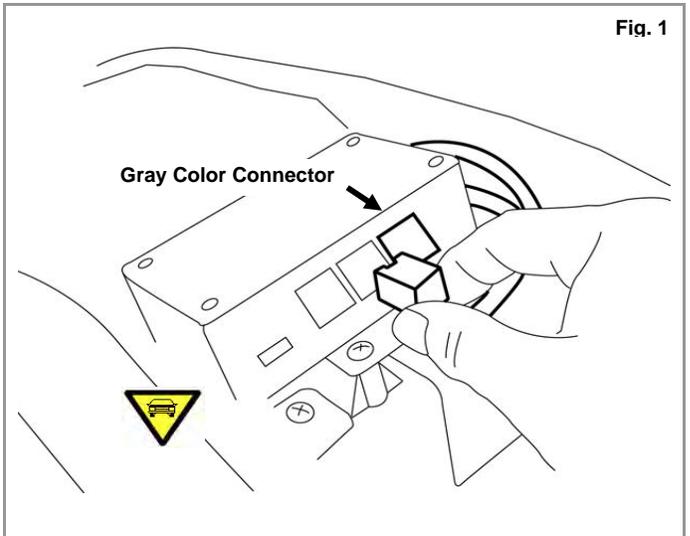
NOTE
Be careful not to nick any other wires in the harness when performing this operation.



Pliers **29**

NOTE
Secure t-tap with a pair of pliers on the BLACK wire from the cigarette lighter connector as shown in figure 1. Install the BLACK wire with 1/4" Male Quick disconnect from the control module onto the T-Tap installed onto the BLACK wire as shown in figure 2.

NOTE
Confirm that the T-Tap fully closes locking onto the wire.



None **30**

NOTE
Plug the cup holder harness into connector on the controller board as shown in figure 1.

NOTE
Ensure a positive connection is made prior to continuing.

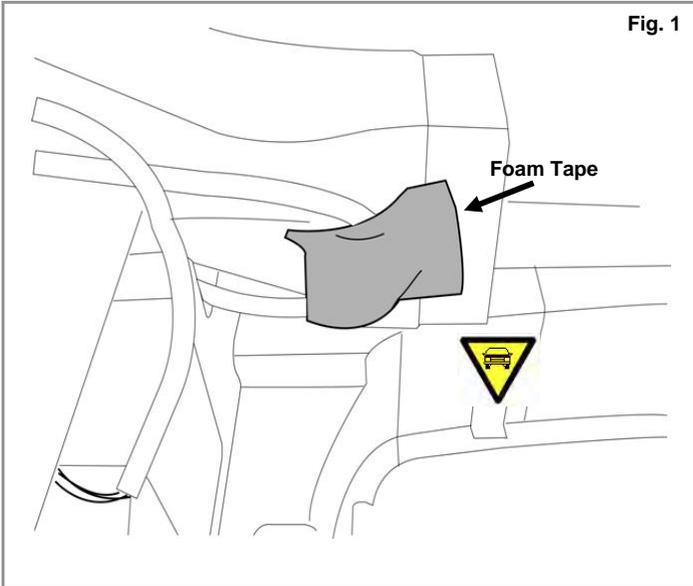


Fig. 1

None	31
NOTE	Secure the cup holder harness to side of ducting with foam pad as shown in figure 1.

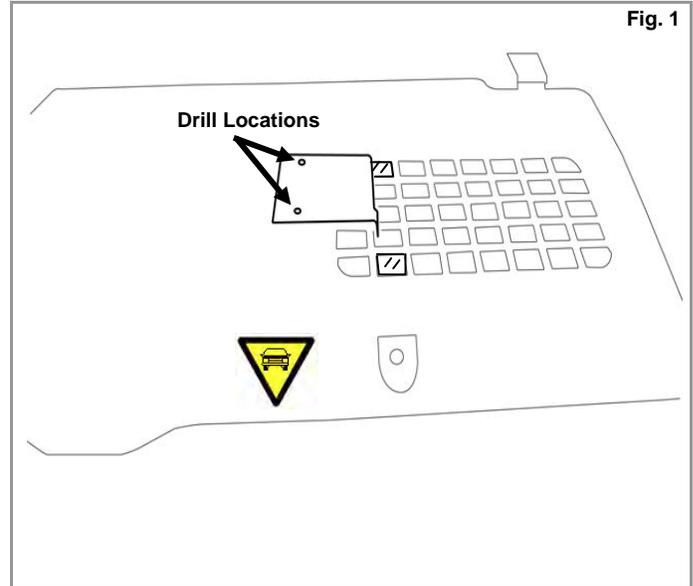


Fig. 1

Center Punch	32
NOTE	Use the drill template and place on the passenger side cover previously removed from below glove box. - Locate tabs into the vent opening. Place tabs in the square openings towards the center of the cover as shown in figure 1. - Using a center punch or scribe, mark the two drill locations as shown in figure 2.
	Ensure that the template is placed into the correct location as shown above.

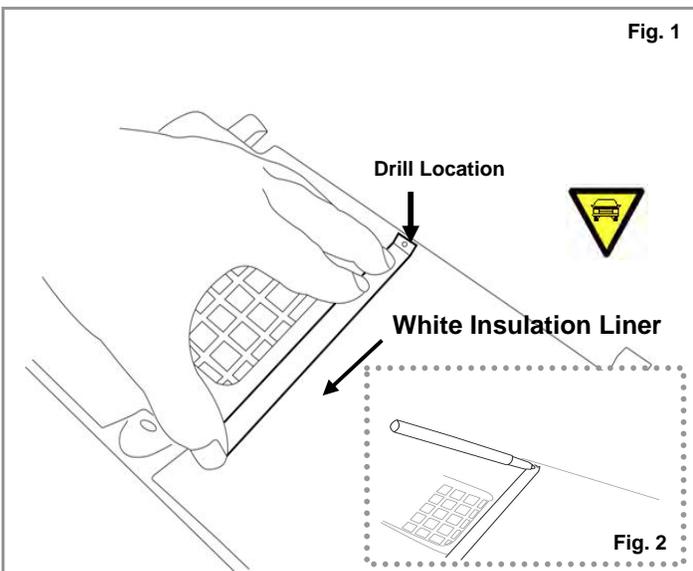


Fig. 1

Center Punch	33
NOTE	Locate the template for drilling the harness management holes. Place the edge of the template next to the vent opening on the back side of cover as shown in figure 1. - Using a center punch mark the hole location as shown in figure 2
	Ensure that template is located correctly so that the hole is not too close the edge.

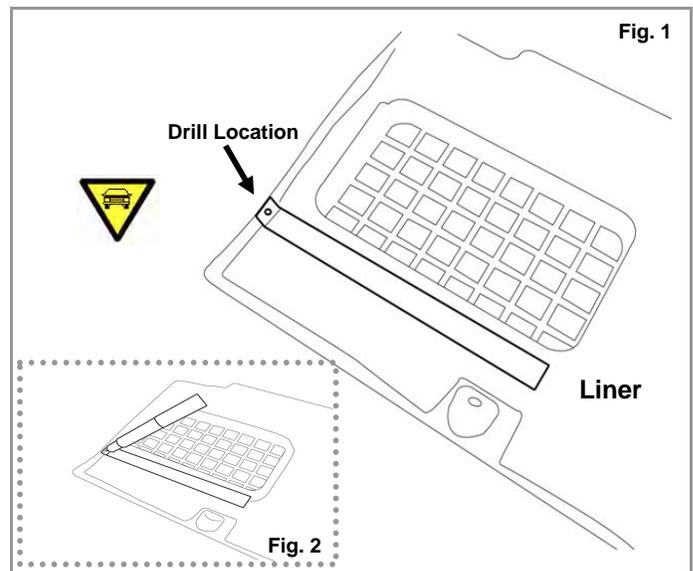
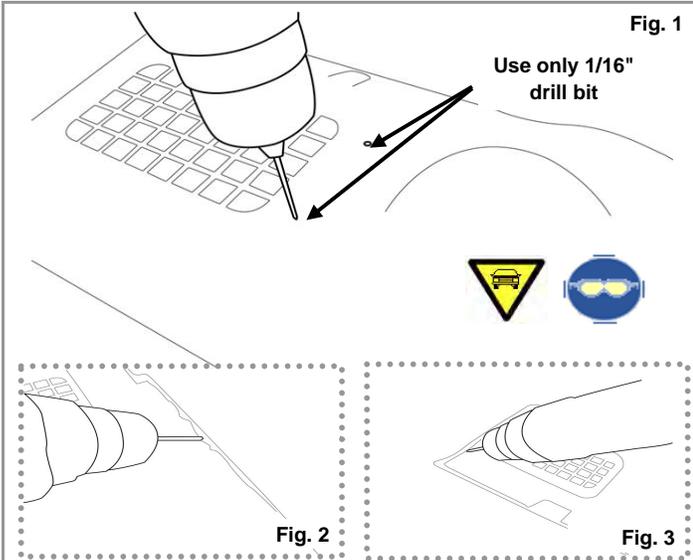


Fig. 1

Center Punch	34
NOTE	Locate the template for drilling the harness management holes. Place the edge of the template next to the vent opening on the inboard side of cover as shown in figure 1. - Using a center punch mark the hole location as shown in figure 2.
	Ensure that template is located correctly so that the hole is not too close the edge.



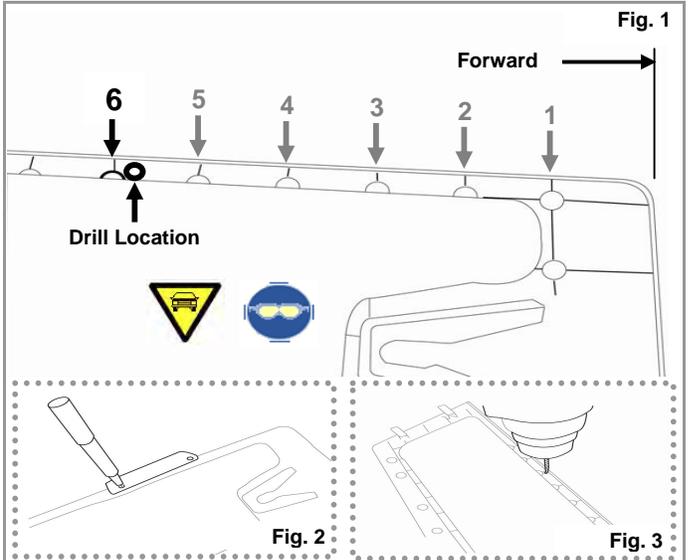
Drill, 1/16 inch drill, 1/8 inch drill **35**

NOTE

- Use a 1/16" pilot drill bit, drill the holes for the light fixture mounting on the passenger side cover as shown in figure 1.
- Use a 1/8 inch drill bit and drill the holes for the wire management on the underside of the passenger cover. This is identified as shown in figure 2 and 3.
- Do not enlarge holes for light fixture position.

NOTE

- Ensure that the drilled hole is located correctly so that the hole is not too close the edge.



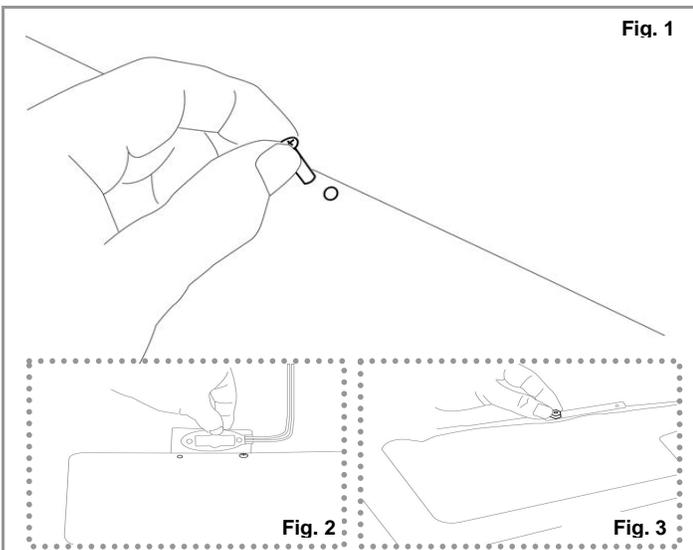
Drill, 1/16 inch drill, 11/64 inch drill **36**

NOTE

- Locate drivers side center console forward trim panel.
- Locate the forward edge and count the circles molded into the cover. Stop at circle #6 as shown in figure 1
- Using the provided steel bracket mark the location as shown in figure 2
- Using a 1/16 inch pilot drill bit, drill the previously marked hole as shown in figure 3.
- Using a 11/64 inch drill open the hole and debur.

NOTE

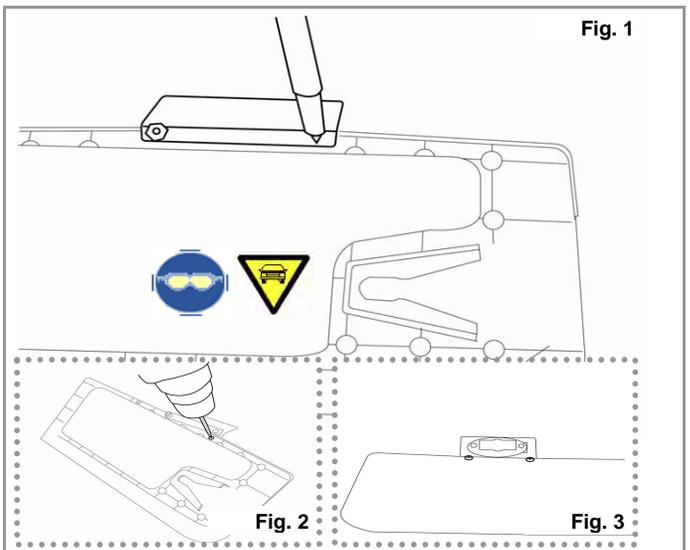
- Ensure that the drilled hole is located correctly so that the hole is not too close the edge.



None **37**

NOTE

- Use a 8-32 screw and install into hole from the front side in figure 1.
- Mount the bracket to the screw as shown in figure 2.
- Install the 8-32 screw lock nut onto the screw as shown in figure 3.
- Do not tighten at this point.



Center Punch, Drill, 11/64 inch drill bit, 9mm Box End Wrench, Phillips Screw Driver **38**

NOTE

- Position the template as shown and mark the location as shown in figure 1.
- Drill the second hole using the 11/64 inch drill bit as shown in figure 2.
- Install the 8-32 inch screw and lock nut onto the screw and tighten both sides.

NOTE

- Do not over torque the fasteners on the bezel

Driver Side Lower IP Fig. 1

Driver Side Foot Well

🔧	None	39
NOTE	From the drivers side foot well carefully route the light fixture without the mounting bracket attached across vehicle forward of duct toward passenger side foot well area as shown in figure 1.	
	Be careful not to pinch the or run the harness against any sharp bracket when performing this step.	

Fig. 1

Driver Side Foot Well

Drivers Seat

Shifter

🔧	Diagonal Cutters	40
NOTE	Route harness wire with connector attached toward rear of center console area. - Using a wire tie secure the lower front IP harness to the vehicle as shown in figure 1. - Follow the vehicle harness with light kit harness and secure using three wire ties as shown in figure 2.	
⚡	Be careful not to nick any other wires in the harness when performing this operation.	

Fig. 1

Fig. 2 **Fig. 3**

🔧	Phillips Screw Driver	41
NOTE	Use two #4 Phillips head screws and insert into the mounting holes of light engine for the passenger side as shown in figure 1. (See Figure 2 for a reference.) - Peel back the liner or the two sided tape as shown in figure 3.	

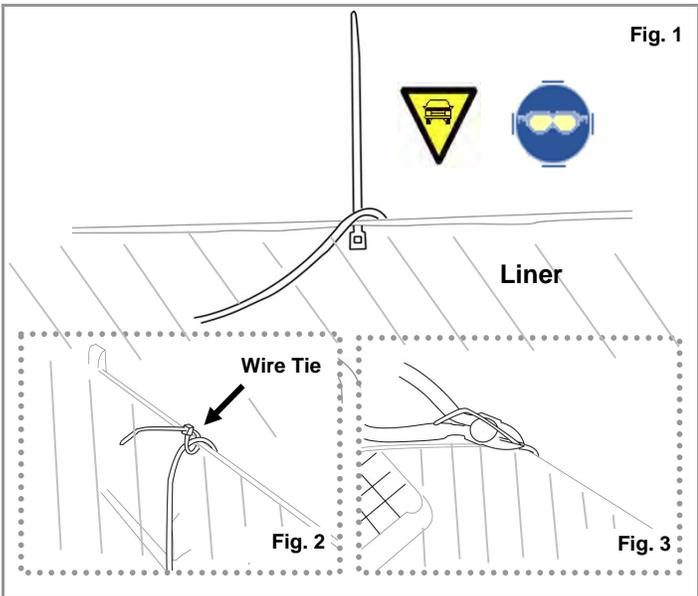
Fig. 1

Forward

Top Surface (Visible Side)

Fig. 2

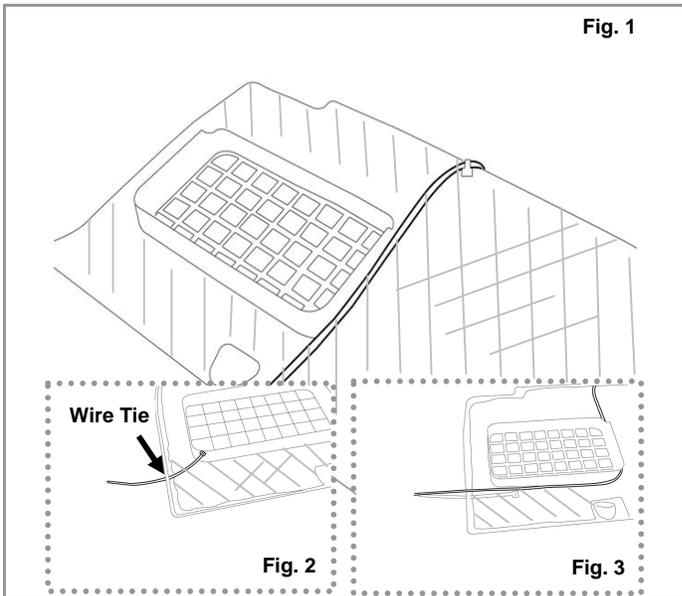
🔧	Phillips Screw Driver	42
NOTE	Orient the cable such that it runs toward the firewall when the panel is reinstalled as shown in figure 1. - Use the screw tips as a guide and install the light engine on to the passenger side cover as shown in figure 1. - Secure the LED light fixture to the top surface of the panel with the two screws as shown in figure 2.	
⚡	Do not over tighten the screws.	



 Diagonal Cutters 43

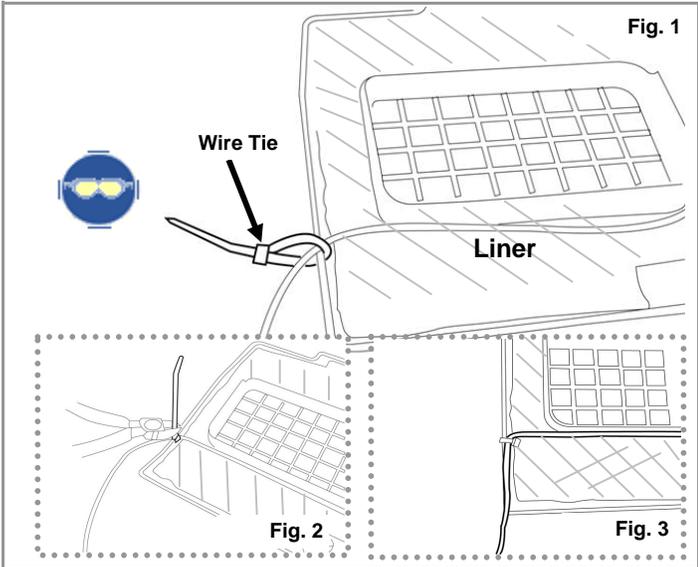
NOTE
 Run the wire from the light engine toward the rear edge of the cover and across wire ties shown in figure 1.
 - Secure the wire with the wire tie as shown in figure 2.
 - Remove excess wire tie as shown in figure 3.

 Be careful not to pinch the or run the harness against any sharp bracket when performing this step.



 None 44

NOTE
 Route the harness wire towards the rear of the panel and next to vent opening as shown in figure 1.
 - Insert a wire tie into the panel as shown in figure 2.
 - Route the harness along the vent as shown in figure 3.



 Diagonal Cutters 45

NOTE
 Secure the wire with the wire tie as shown in figure 1.
 - Remove the excess wire tie using the diagonal cutters as shown in figure 2.
 - Route wire forward as shown in figure 3.
 - Reinstall the panel into it original position.
 - Secure the harness to vehicle harness in the passenger foot well to the existing harness.

Ensure the wire does not get pinched or nicked when removing the excess wire tie.

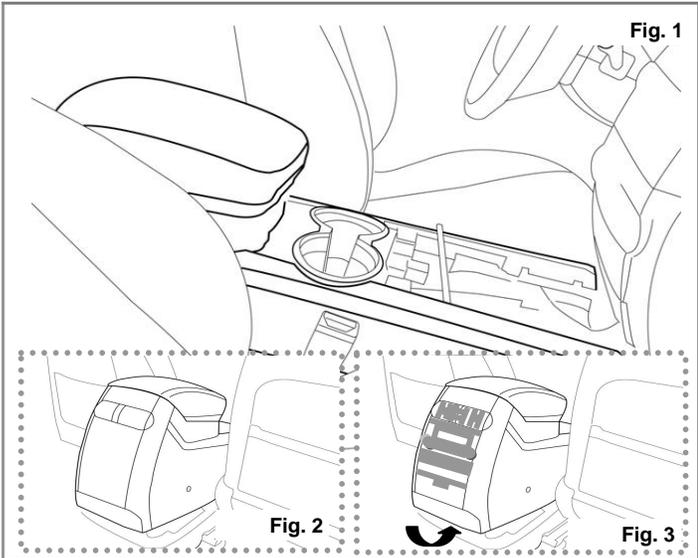
NOTICE: Expansion Kit

If both the base kit and expansion kit are to be installed into the vehicle, open the expansion kit at this point and complete the installation using the enclosed instructions beginning at step #19. The expansion kit contains lighting for the forward tray and rear floor lighting.

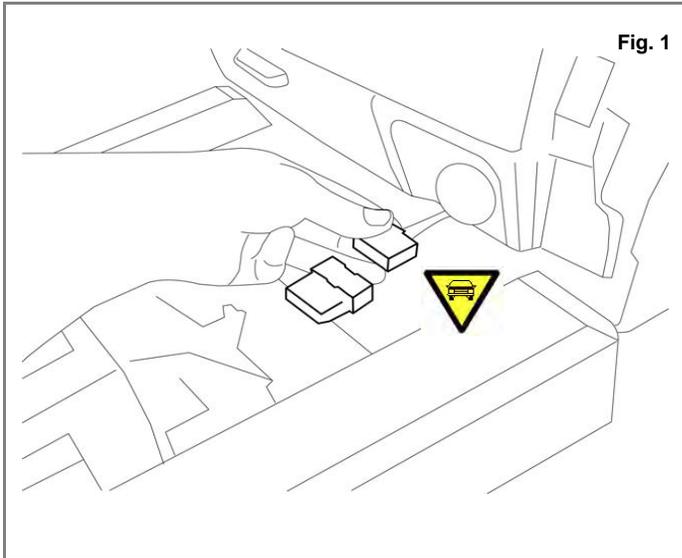
If only base kit is to be installed, continue at step #47 of this manual.

 46

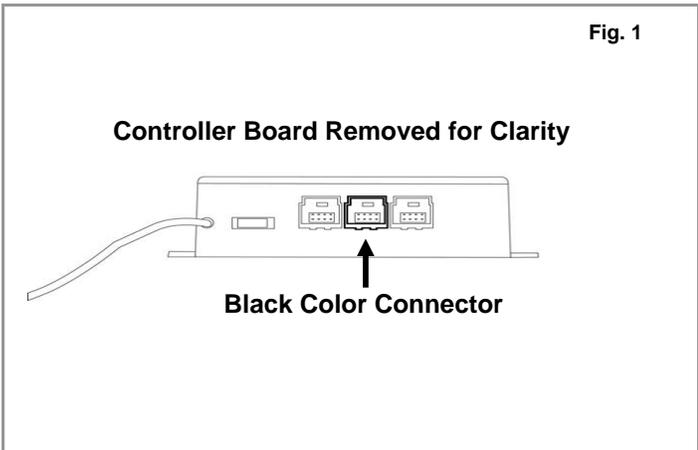
NOTE



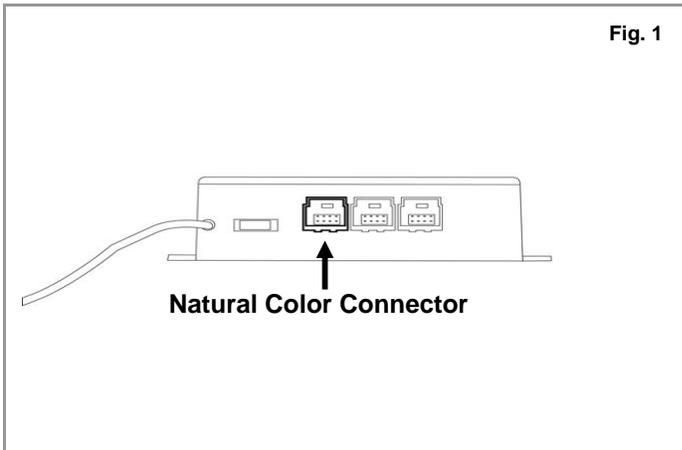
	None	47
N O T E	Carefully reinstall the center console into the vehicle. - Ensure that the wire harness does not get pinched between the rear brace and the frame of the center console as shown in figures 1 and 2. If equipped with RSE, carefully lift rear of console and reconnect the four connectors as shown in figure 3.	
	Do not secure the center console to the vehicle at this point.	



	None	48
N O T E	Reconnect the center console connectors to the vehicle harness just forward of the shifter as shown in figure 1.	
	Ensure that a positive connection between the two connectors is made when performing this step.	



	None	49
N O T E	Attach the LED harness connector (black) to the matching black connector on controller board as shown in figure 1. (Picture of control box removed from vehicle for clarity)	
	Ensure that the connector has a positive connection to the module prior to moving to the next step	



	None	50
N O T E	Attach the natural switch harness connector to the matching natural color connector on controller board as shown in figure 1.	
	Ensure that the connector has a positive connection to the module prior to moving to the next step	

Fig. 1

(Picture of harness removed from vehicle for clarity)

None		51
NOTE	<p>Make connections as shown in Figure 1 above. -Attach the light kit harness 3/16" quick disconnects to 3/16" quick disconnects on the switch harness. Attach the light kit harness 1/4" quick disconnect (WHITE wire) to controller module 1/4" quick disconnect (RED wire).</p> <p>Ensure that the connectors are fully inserted into one another.</p>	

Turn to the function check section of the manual and follow the steps outlined to confirm that the mood lighting system is functioning properly. Do not proceed to the next step until the function check is completed.

None		52
NOTE		

Fig. 1

Fig. 2

None		53
NOTE	<p>Install the button harness switch through the center console bin as shown in figure 1.</p> <ul style="list-style-type: none"> - Secure using the rubber boot as shown in figure 2. - Secure harness with a single piece of foam tape. - Perform wire management of all harnesses to ensure that they do not interfere with the parking brake mechanism or rest against SRS module on floorpan. <p>Do not over tighten the rubber boot when securing.</p>	

Fig. 1

Fig. 2

None		54
NOTE	<p>Reconnect power plug to center bin as shown in figure 1.</p> <ul style="list-style-type: none"> - Bundle the excess harness as shown in figure 2. 	
NOTE	Ensure a positive connection is made when performing this step.	

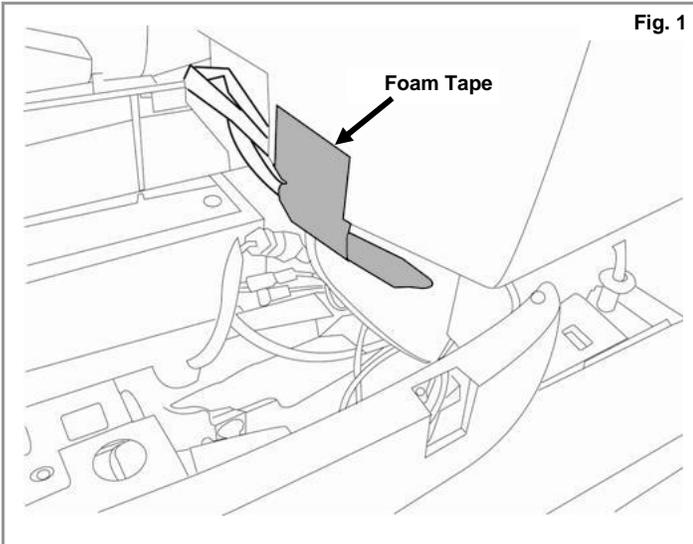


Fig. 1

		55
N O T E	Secure switch harness bundle to center console with foam pads as shown in figure 1.	
	Ensure the harness is secured to the bin before proceeding to the next step.	

Re-install all the remaining components and fasteners as described in the reassemble section.

		56
N O T E		

Reassembly Sheet (Main Kit)

	Item in Question	Disassembly Section	Visual Review
	Reinstall the center bin and secure using the four screws.	Instruction Ref. Pg. 9 Step 25 Fig. 1	Bin will be flush to center console after installation without any gaps. Ensure the switch harness does not get pinched.
	Reinstall the center console bin bezel by aligning the clips and lower then lock into position	Instruction Ref. Pg. 8 Step 24 Fig 1	Ensure the console is completely flush paying attention to the area around the bolster hinge.
	Reinstall the two original screws removed from the center console bin bezel.	Instruction Ref. Pg. 8 Step 23 Fig. 1	Do not over torque the screws.
	Reinstall the three bolts removed in the center bin that hold the center console.	Instruction Ref. Pg. 7 Step 17 Fig. 1	Do not over torque the three bolts.
	Reinstall the center console felt liner into the center console.	Instruction Ref. Pg. 7 Step 17 Fig. 2	Fits flat in the bin
	Reinstall the two screws used to secure the center console to the shifter base.	Instruction Ref. Pg. 6 Step 16 Fig. 1	Do not over torque the screws.
	Reinstall the forward Tray locking it into position and using the two original screws removed	Instruction Ref. Pg. 6 Step 14 Fig. 1	Do not over torque the screws.
	Reinstall the connectors to the shifter bezel and reinstall the bezel onto the center console.	Instruction Ref. Pg. 6 Step 13 Fig. 1	Ensure that all the clips are locked down and the bezel is completely seated onto the center console.
	Orient the shift knob over the shift post and lock by pressing down firmly.	Instruction Ref. Pg. 5 Step 10 Fig. 1	Ensure the shift knob is firmly seated.
	Reinstall the original screw onto the side of the center console forward end on the passenger side of the vehicle.	Instruction Ref. Pg. 4 Step 8 Fig. 2	Do not over torque the screw.
	Reinstall the passenger foot well inner kick panel. Ensure the panel locks onto the forward clip. Lock panel to forward end of the center console	Instruction Ref. Pg. 4 Step 8 Fig. 1	Ensure that the LED harness wire is not pinched
	Move the front seats forward. Reinstall the two screws removed from the side of the center console.	Instruction Ref. Pg. 7 Step 18 Fig. 1	Do not over torque the screw.
	Reinstall the rear bezel panel onto the center console beginning with the clips at the bottom. Secure the rear panel using the six original screws.	Instruction Ref. Pg. 8 Step 22 Fig. 1	Ensure the panel locks into the Center console. Pay attention to the lower clips and that it properly locks onto the center console near the top bolster.

Reassembly Sheet (Main Kit)

Item in Question	Disassembly Section	Visual Review			
✓	Install the trim bezel pieces onto the rear console that were originally removed	<table border="1"> <tr> <td data-bbox="589 348 789 378">Instruction Ref.</td> <td data-bbox="789 327 1395 453" rowspan="2">Start at the top ensuring that the trim panels fully lock onto the upper edge. Be careful to not damage the component when reinstalling the trim panels onto the rear console. Fix the carpet floor mat before moving forward.</td> </tr> <tr> <td data-bbox="589 386 789 453">Pg. 8 Step 21 Fig. 2</td> </tr> </table>	Instruction Ref.	Start at the top ensuring that the trim panels fully lock onto the upper edge. Be careful to not damage the component when reinstalling the trim panels onto the rear console. Fix the carpet floor mat before moving forward.	Pg. 8 Step 21 Fig. 2
Instruction Ref.	Start at the top ensuring that the trim panels fully lock onto the upper edge. Be careful to not damage the component when reinstalling the trim panels onto the rear console. Fix the carpet floor mat before moving forward.				
Pg. 8 Step 21 Fig. 2					
✓	Reinstall the original screw onto the side of the center console forward end on the drivers side of the vehicle.	<table border="1"> <tr> <td data-bbox="589 474 789 504">Instruction Ref.</td> <td data-bbox="789 464 1395 569" rowspan="2">Do not over torque the screw.</td> </tr> <tr> <td data-bbox="589 512 789 569">Pg. 4 Step 7 Fig. 2</td> </tr> </table>	Instruction Ref.	Do not over torque the screw.	Pg. 4 Step 7 Fig. 2
Instruction Ref.	Do not over torque the screw.				
Pg. 4 Step 7 Fig. 2					
✓	Reinstall the drivers foot well inner kick panel. Ensure the panel locks onto the forward clip. Lock panel to forward end of the center console	<table border="1"> <tr> <td data-bbox="589 600 789 630">Instruction Ref.</td> <td data-bbox="789 579 1395 684" rowspan="2">Ensure that the LED harness wire is not pinched</td> </tr> <tr> <td data-bbox="589 638 789 684">Pg. 4 Step 7 Fig. 1</td> </tr> </table>	Instruction Ref.	Ensure that the LED harness wire is not pinched	Pg. 4 Step 7 Fig. 1
Instruction Ref.	Ensure that the LED harness wire is not pinched				
Pg. 4 Step 7 Fig. 1					
✓	Reinstall the fuse panel cover	<table border="1"> <tr> <td data-bbox="589 716 789 745">Instruction Ref.</td> <td data-bbox="789 695 1395 800" rowspan="2">Ensure is locks firmly into position.</td> </tr> <tr> <td data-bbox="589 753 789 800">Pg. 4 Step 6 Fig. 1</td> </tr> </table>	Instruction Ref.	Ensure is locks firmly into position.	Pg. 4 Step 6 Fig. 1
Instruction Ref.	Ensure is locks firmly into position.				
Pg. 4 Step 6 Fig. 1					
✓	Install the left kick panel onto the vehicle. Ensure that all the clips engage properly including the forward and rear trim clips.	<table border="1"> <tr> <td data-bbox="589 831 789 861">Instruction Ref.</td> <td data-bbox="789 810 1395 915" rowspan="2">Take your time installing this component to ensure that no wires get pinched and that the panel fully seats onto the vehicle.</td> </tr> <tr> <td data-bbox="589 869 789 915">Pg. 4 Step 5 Fig. 1</td> </tr> </table>	Instruction Ref.	Take your time installing this component to ensure that no wires get pinched and that the panel fully seats onto the vehicle.	Pg. 4 Step 5 Fig. 1
Instruction Ref.	Take your time installing this component to ensure that no wires get pinched and that the panel fully seats onto the vehicle.				
Pg. 4 Step 5 Fig. 1					
✓	Reinstall the hood latch onto the hood release mechanism.	<table border="1"> <tr> <td data-bbox="589 947 789 976">Instruction Ref.</td> <td data-bbox="789 926 1395 1031" rowspan="2">Ensure the handle fully locks onto the clip</td> </tr> <tr> <td data-bbox="589 984 789 1031">Pg. 3 Step 4 Fig. 1</td> </tr> </table>	Instruction Ref.	Ensure the handle fully locks onto the clip	Pg. 3 Step 4 Fig. 1
Instruction Ref.	Ensure the handle fully locks onto the clip				
Pg. 3 Step 4 Fig. 1					
✓	Reinstall the rubber weather proof strip along the door edge next to the kick panel	<table border="1"> <tr> <td data-bbox="589 1062 789 1092">Instruction Ref.</td> <td data-bbox="789 1041 1395 1146" rowspan="2">Ensure that the rubber seal is fully seated into the channel to prevent damage when the driver door is closed.</td> </tr> <tr> <td data-bbox="589 1100 789 1146">Pg. 3 Step 3 Fig. 1</td> </tr> </table>	Instruction Ref.	Ensure that the rubber seal is fully seated into the channel to prevent damage when the driver door is closed.	Pg. 3 Step 3 Fig. 1
Instruction Ref.	Ensure that the rubber seal is fully seated into the channel to prevent damage when the driver door is closed.				
Pg. 3 Step 3 Fig. 1					
✓	Reinstall the door scuff plate onto the drivers side. Ensure that it is positioned to correctly install onto the plate. Pay attention to the forward inboard edge when installing.	<table border="1"> <tr> <td data-bbox="589 1178 789 1207">Instruction Ref.</td> <td data-bbox="789 1157 1395 1262" rowspan="2">Scuff plate should be locked down completely. Check the inboard forward and rearward edge to ensure it is fully seated.</td> </tr> <tr> <td data-bbox="589 1215 789 1262">Pg. 3 Step 2 Fig. 1</td> </tr> </table>	Instruction Ref.	Scuff plate should be locked down completely. Check the inboard forward and rearward edge to ensure it is fully seated.	Pg. 3 Step 2 Fig. 1
Instruction Ref.	Scuff plate should be locked down completely. Check the inboard forward and rearward edge to ensure it is fully seated.				
Pg. 3 Step 2 Fig. 1					
✓	Reinstall the negative battery cable onto the battery lead. Tighten normally. Ensure no tools are in the engine compartment and close the hood	<table border="1"> <tr> <td data-bbox="589 1293 789 1323">Instruction Ref.</td> <td data-bbox="789 1272 1395 1377" rowspan="2">Make sure the cables are secure.</td> </tr> <tr> <td data-bbox="589 1331 789 1377">Pg. 3 Step 1 Fig. 1</td> </tr> </table>	Instruction Ref.	Make sure the cables are secure.	Pg. 3 Step 1 Fig. 1
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		<table border="1"> <tr> <td data-bbox="589 1524 789 1554">Instruction Ref.</td> <td data-bbox="789 1503 1395 1608"></td> </tr> </table>	Instruction Ref.		
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		<table border="1"> <tr> <td data-bbox="589 1640 789 1669">Instruction Ref.</td> <td data-bbox="789 1619 1395 1724"></td> </tr> </table>	Instruction Ref.		
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		<table border="1"> <tr> <td data-bbox="589 1755 789 1785">Instruction Ref.</td> <td data-bbox="789 1734 1395 1839"></td> </tr> </table>	Instruction Ref.		
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		<table border="1"> <tr> <td data-bbox="589 1871 789 1900">Instruction Ref.</td> <td data-bbox="789 1850 1395 1913"></td> </tr> </table>	Instruction Ref.		
Instruction Ref.					

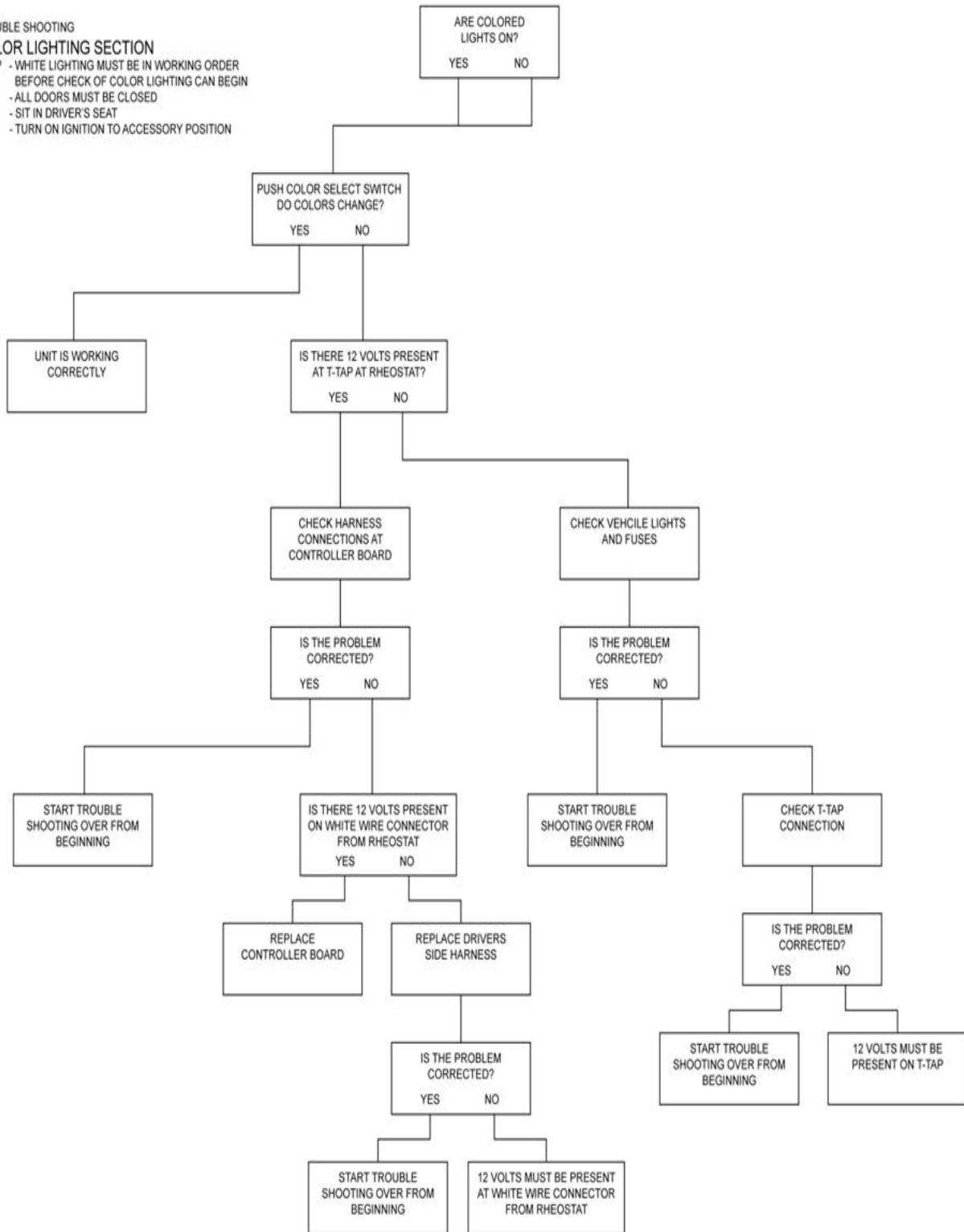
KMA Genuine Approved Accessories (Function Check)

	Items To Be Checked	Results of the Check
	Ensure that the ignition key is in the "OFF" position	Key is removed from the ignition switch
	Close the doors including the rear hatch	Doors closed
	Temporarily place the negative cable onto the battery lead.	Vehicle systems are active.
	Open each of the four doors (Drivers, Passenger, and two rear door one at a time	LED's installed illuminate a soft white light.
	Close doors	LED's turn "OFF" in conjunction with the dome light circuit.
	Close doors and activate the alarm system using the key fob.	LED's turn "OFF" in conjunction with the dome light circuit.
	Using the key fob, de-activate the alarm system.	White light is emitted from the LED's
	With all the doors closed, place key in the ignition and turn to the ACC position. Turn on the headlights and press the system button.	Color light emits from the LED's.
	Continue to press the system	The lights alternate color and go to the "OFF" position.
	Turn "OFF" the headlights and cycle the ignition switch to the "OFF" position	The color lights turn "OFF"
	Remove the negative lead from the battery and place so it does not come into contact with the battery terminal.	End of function test. Return the installation section and complete the remainder of the installation steps.

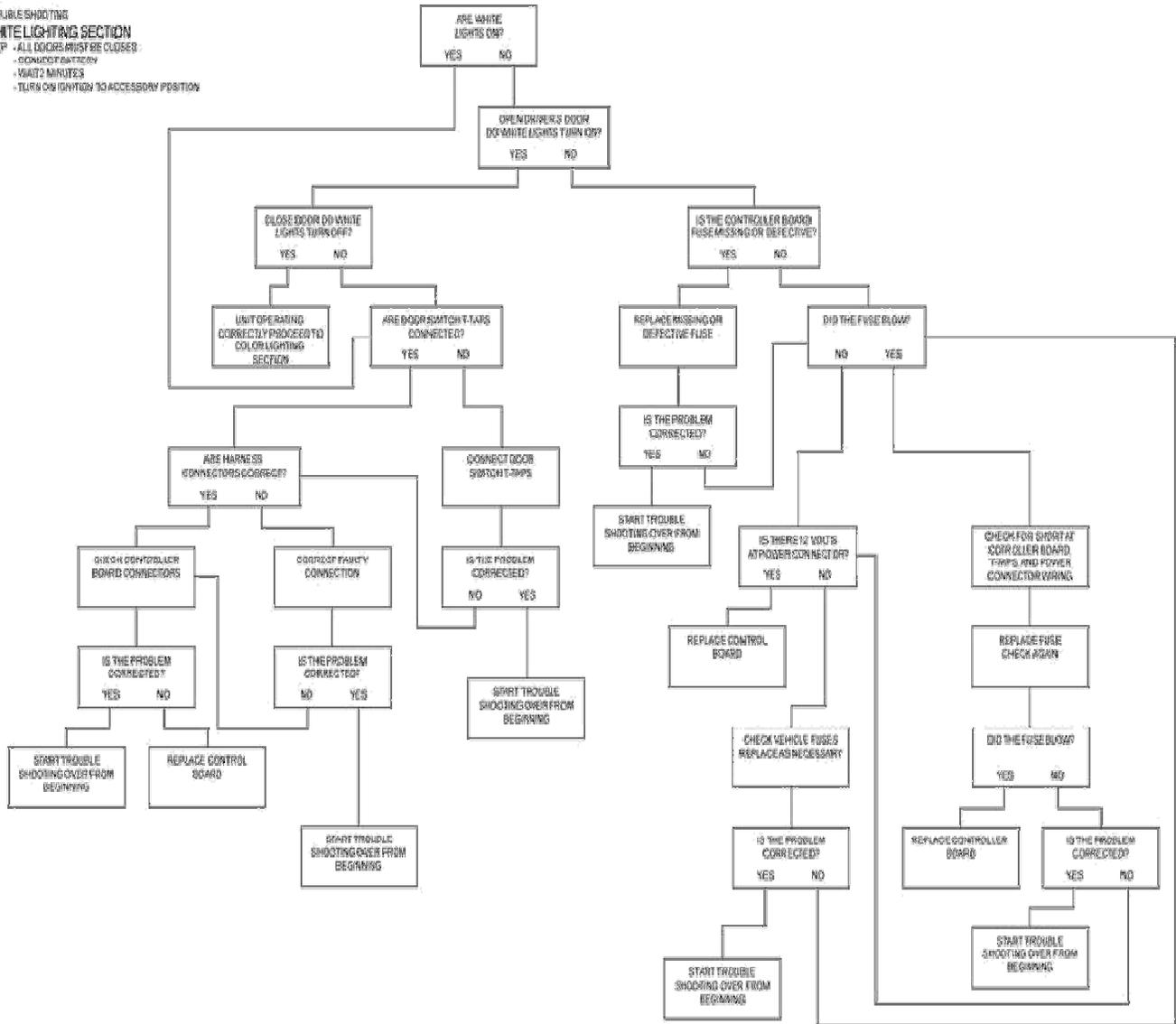
TROUBLE SHOOTING

COLOR LIGHTING SECTION

- PREP* - WHITE LIGHTING MUST BE IN WORKING ORDER
 BEFORE CHECK OF COLOR LIGHTING CAN BEGIN
 - ALL DOORS MUST BE CLOSED
 - SIT IN DRIVER'S SEAT
 - TURN ON IGNITION TO ACCESSORY POSITION



TROUBLE SHOOTING
WHITE LIGHTING SECTION
PREP - ALL DOORS MUST BE CLOSED
 - CONDUCT TESTS
 - WAIT 2 MINUTES
 - TURN ON IGNITION TO ACCESSORY POSITION



MY 09 KIA BORREGO INTERIOR ILLUMINATION INSTALLATION TEMPLATES

MAIN KIT

