

#### KMA Genuine Approved Accessories (Preparation) Pg. 1

Vehicle Model	Borrego	Accessory	Expansion Light Kit
Model Year	2009	Difficulty	B
KMA Part No.	UH090 AY311		

- Preparation
- Disassembly - Accessory Installation
- Reassembly Sheet
- Function Check
- 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





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

Denotes cautions to be taken to avoid

Denotes cautions to be taken to avoid

vehicle and component damage.

physical injury or electronic component



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Denotes quality processes to Denotes safety equipment required to be checked prior to moving to be used such as a mask, goggles, the next step. rubber gloves, and hearing protection.

Denotes specific tools that are

necessary to complete the

**Denotes instructional steps** 

necessary to complete the

step.

process.



#### **Basic Required Hand Tools**

damage.

Basic Required Hand Tools				Specialty Required Tools
Philips Head Screw Driver	Panel Removal Tool (Panel Safe)	Ratchet Wrench	Pick Tool	
Socket (10 mm)	Drill	Step Drill Bit 3/4"	Drill Bit 1/8" / 5/16"	
Scribe or Center Punch				

#### Notes to the Installer

Read the entire installation pamphlet prior to beginning the installation of the accessory.

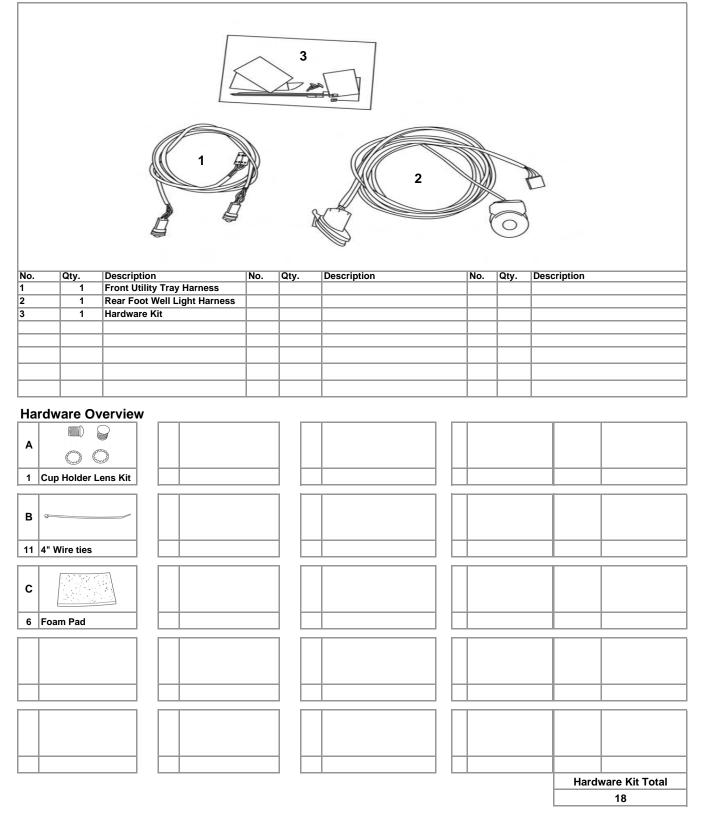
Ensure that the vehicle is properly protected in the area that the accessory is to be installed.

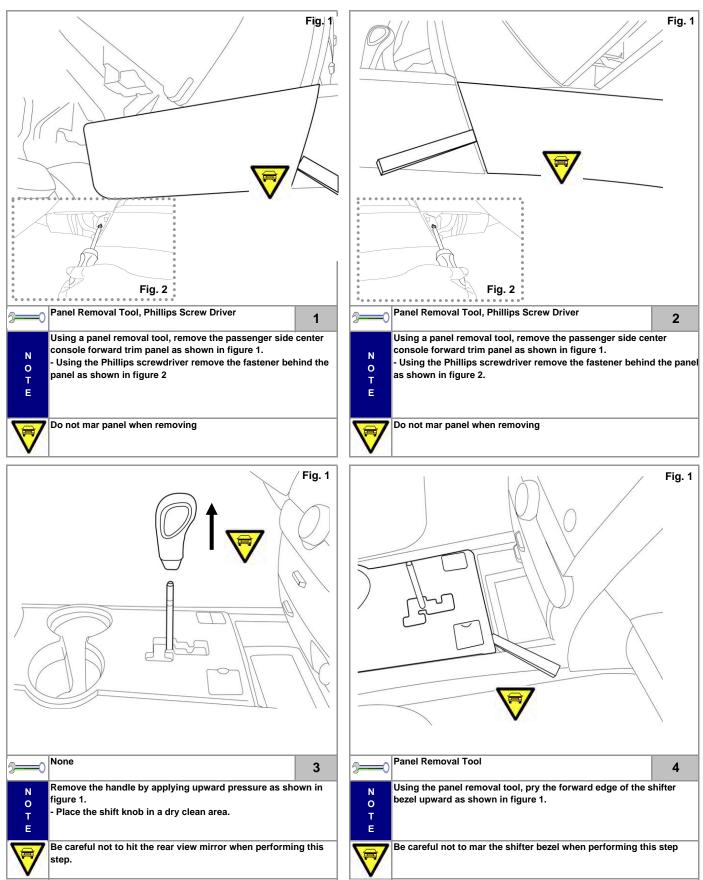
To prevent vehicle damage, never place tools on top of painted surfaces, seats, dash pad, console or floor carpet / mat. Always wear appropriate safety gear to include gloves and eye protection when required.

Prior to disconnecting negative lead to the battery, note on the inspection page the AM/FM and satellite set frequencies.

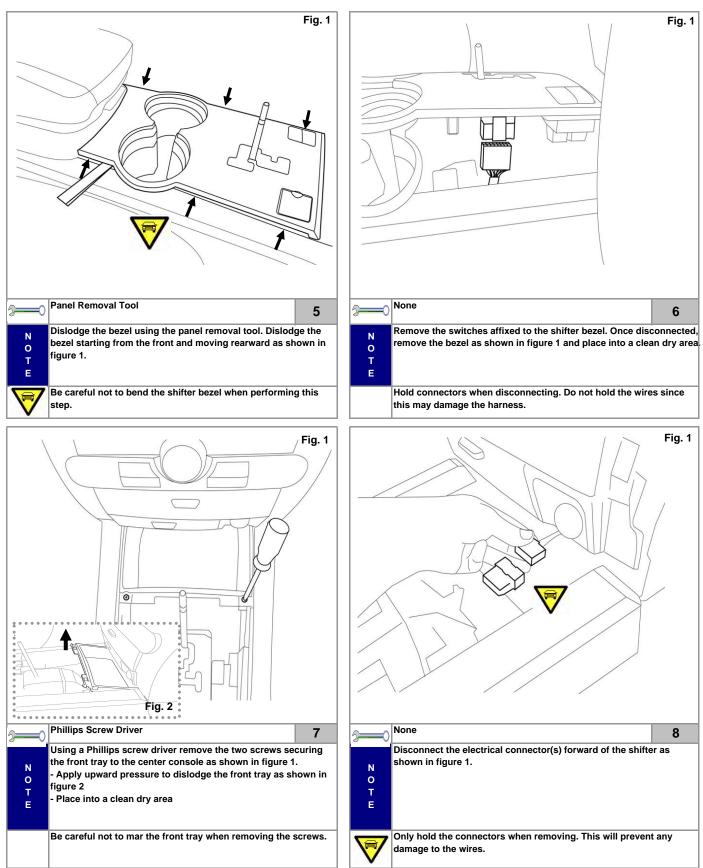
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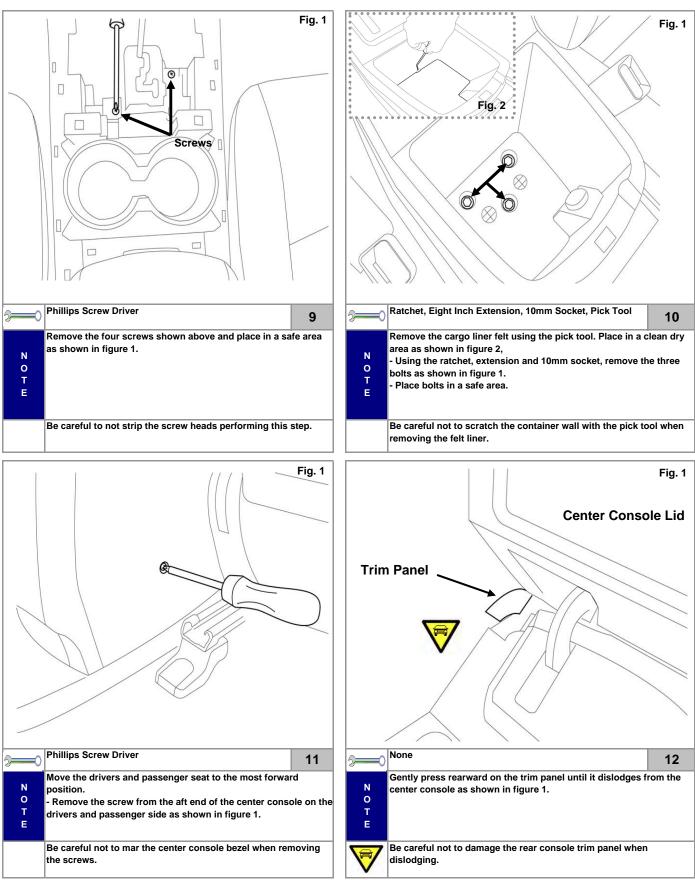
#### **Kit Overview**



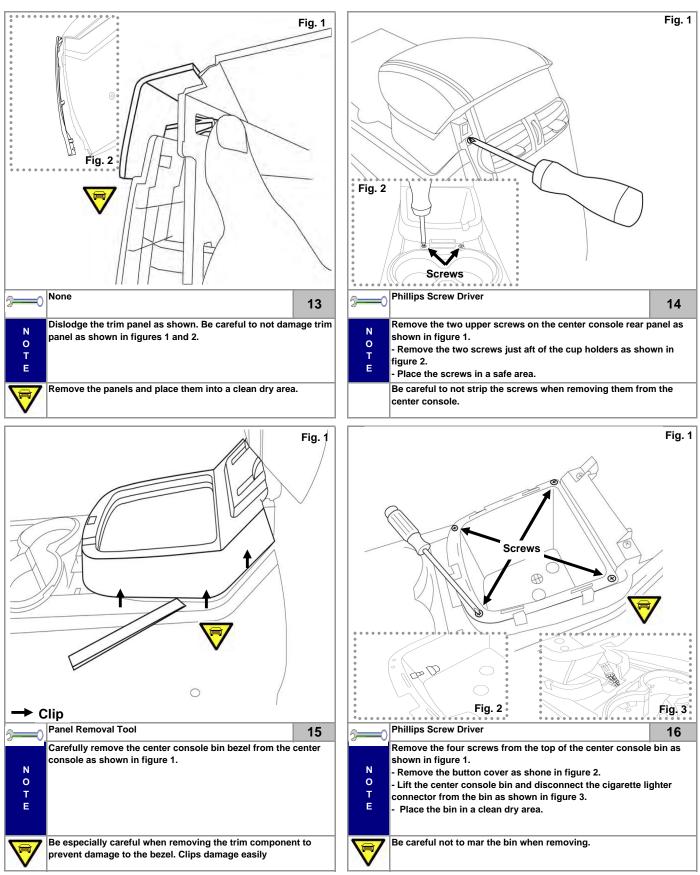


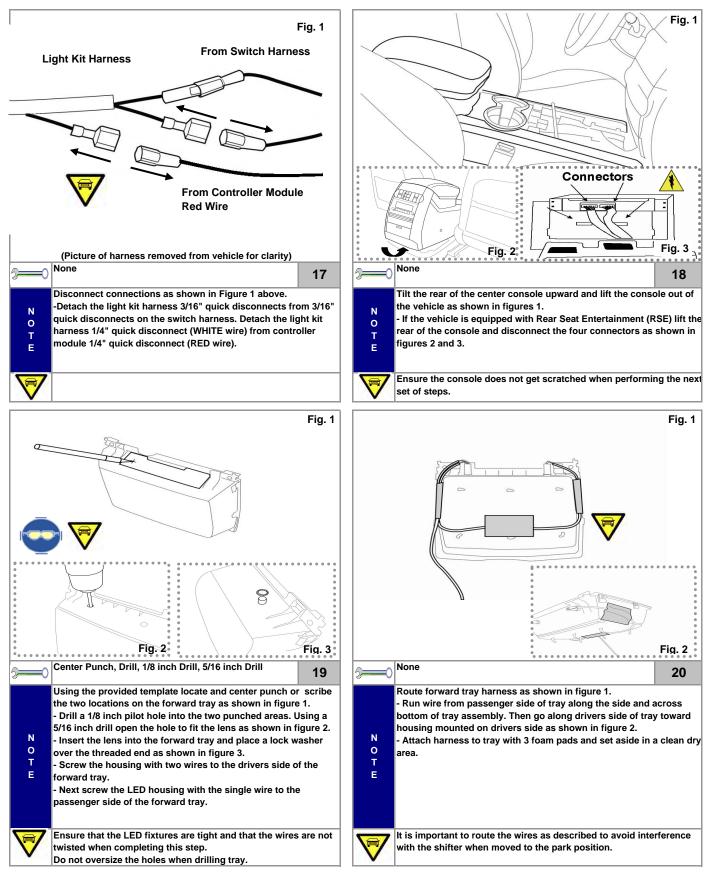
KMÅ Reference Number (HMIN-UH090AY310-DI)

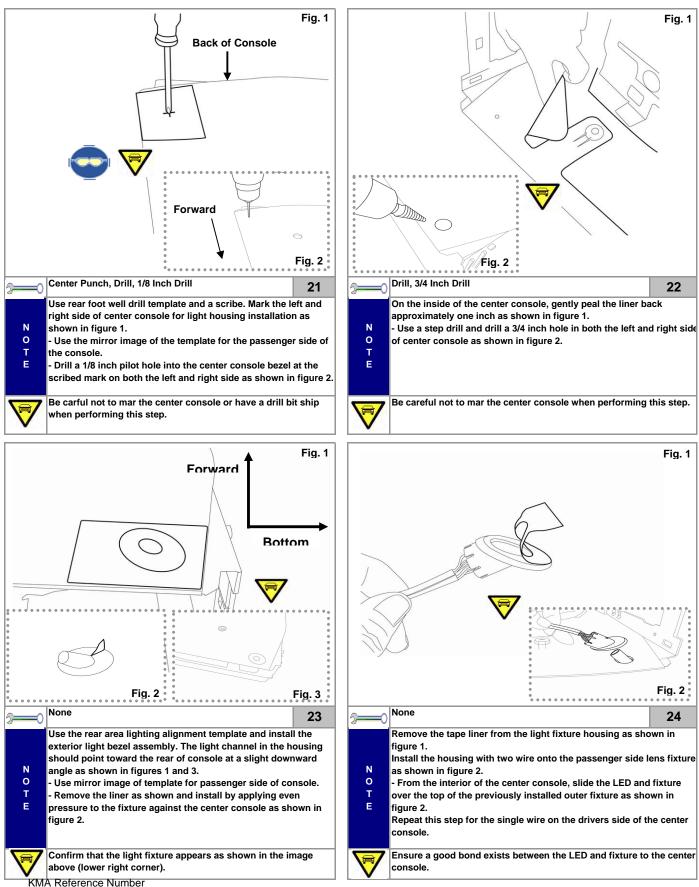


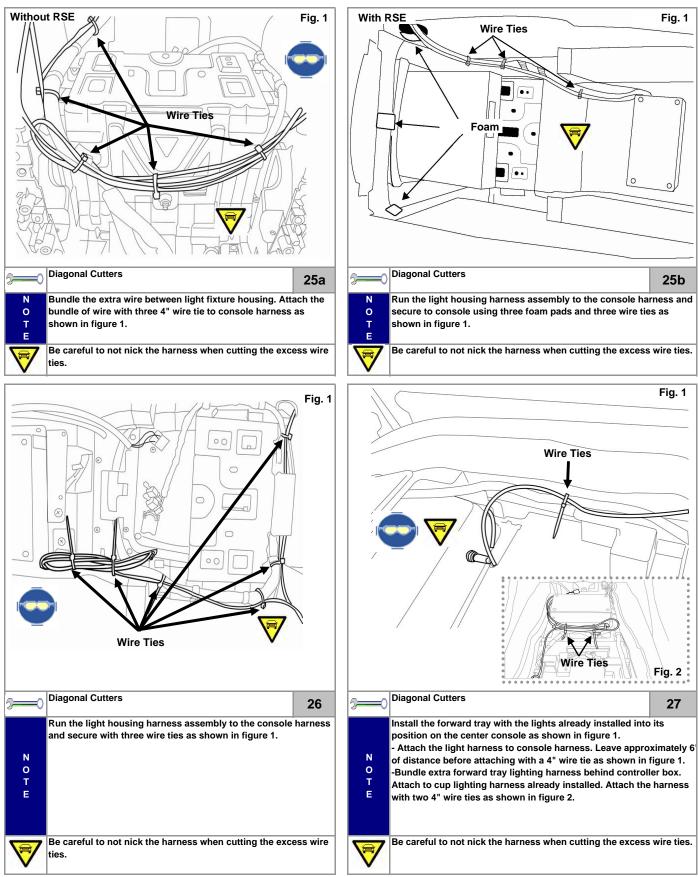


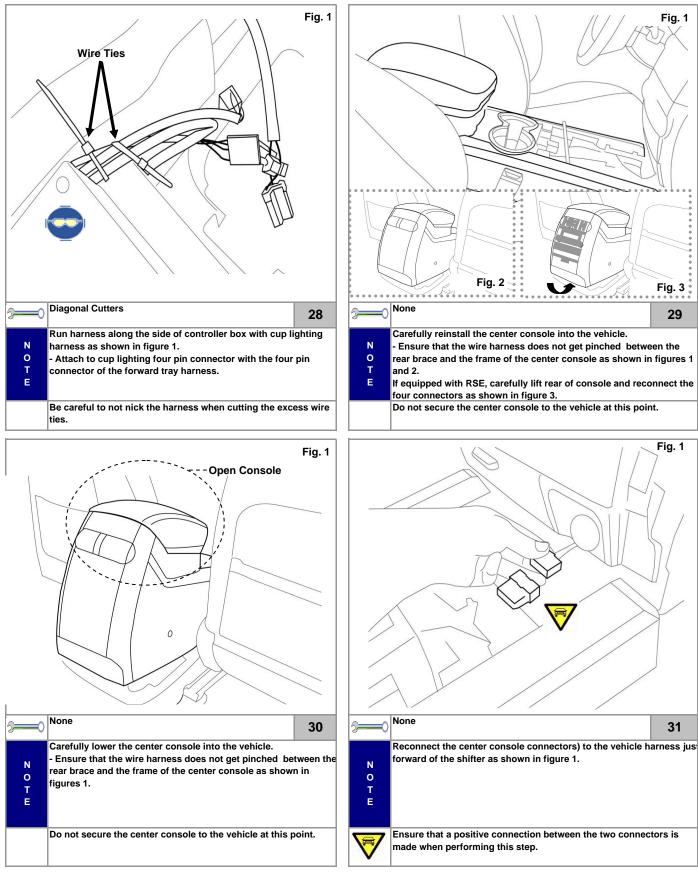
KMA Reference Number (HMIN-UH090AY310-DI)

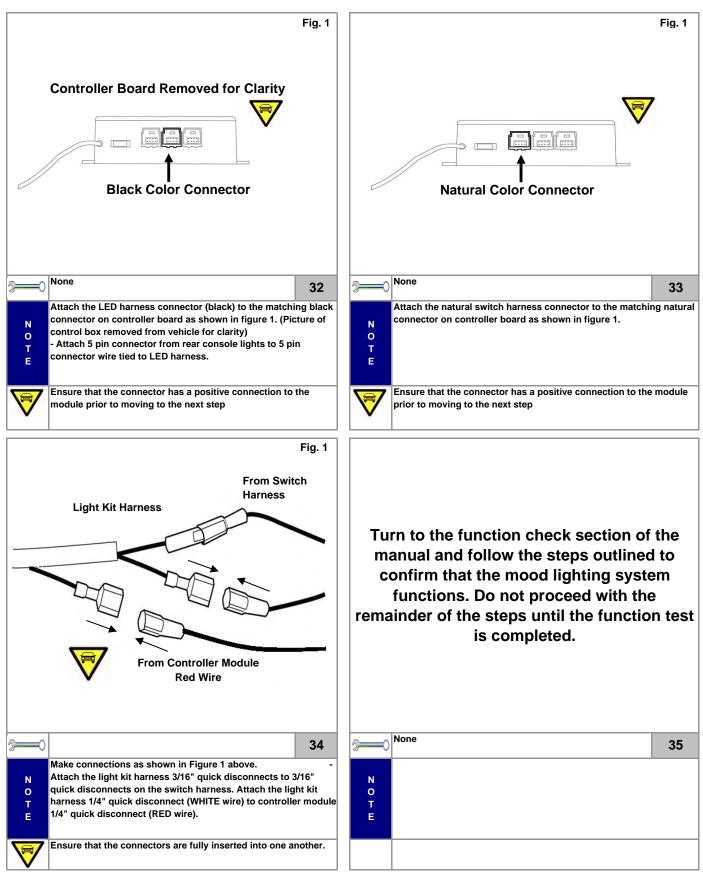












#### Fig. 1 Fig. 1 Foam Tape 0 0 Wire Tie Fig. 2 Fig. 2 None None 36 37 Reconnect power plug to center bin as shown in figure 1. Install the button harness switch through the center console bin - Bundle the excess harness as shown in figure 2. as shown in figure 1. Ν Ν - Secure using the rubber boot as shown in figure 2. O T 0 Secure harness with a single piece of foam tape. т Perform wire management of all harnesses to ensure that they Е Е do not interfere with the parking brake mechanism or rest against SRS module on floorpan. Do not over tighten the rubber boot when securing. Ensure a positive connection is made when performing this step. Fig. 1 Foam Pad Re-install all the remaining components and 5 fasteners as described in the reassemble section. None 38 Secure switch harness bundle to center console with foam pads Ν 0 as shown in figure 1. 0 т Т Е Е Ensure the harness is secured to the bin before proceeding to the next step.

# Reassembly Sheet (Expansion Kit)

Pg. 13

Item in Question		Visual Review
Reinstall the center bin and secure using the four screws.	Instruction Ref. Pg. 6 Step 16	Bin will be flush to center console after installation without any gaps. Ensure the switch harness does not get pinched.
	Fig. 1	
Reinstall the center console bin bezel by aligning the clips and lower then lock into position	Instruction Ref. Pg. 6 Step 15	Ensure the console is completely flush paying attention to the areaaround the bulster hinge.
	Fig 1	
Reinstall the two original screws removed from the center console bin bezel.	Instruction Ref. Pg. 6	Do not over torque the screws.
	Step 14	
 Reinstall the three bolts removed in the center	Fig. 2	Do not over torque the three bolts.
bin that hold the center console.	Instruction Ref. Pg. 5 Step 10	
	Fig. 1	
Reinstall the center console felt liner into the center console.	Instruction Ref.	Fits flat in the bin
	Pg. 5 Step 10 Fig. 2	
Reinstall the two screws used to secure the		Do not over torque the screws.
center console to the shifter.	Instruction Ref. Pg. 5	_
	Step 9	
	Fig. 1	
Reinstall the forward Tray locking it into position and using the two original screws	Instruction Ref.	Do not over torque the screws.
removed	Pg. 4	-
	Step 7	
 Reistall the connectors to the shifter bezel and	Fig. 1	Ensure that all the clips are locked down and the bezel is completely
reinstall the bezel onto the center console.	Instruction Ref.	seated onto the center console.
	Pg. 4 Step 6	
	Fig. 1	
Orient the shift knob over the shift post and	In struction Def	Ensure the shift knob is firmly seated.
lock by pressing down firmly.	Instruction Ref. Pg. 3	-
	Step 3	
 Deinstell the eniminal second ante the side of the	Fig. 1	Do not over the open
Reinstall the original screw onto the side of the center console forward end on the passenger side of the vehicle.	Instruction Ref.	Do not over torque the screw.
	Step 2	
 Reinstall the passenger footwell inner kick	Fig. 2	Ensure that the LED harness wire is not pinched
panel. Ensure the panel locks onto the forward	Instruction Ref.	
clip. Lock panel to forward end of the center	Pg. 3 Step 2	
console	Fig. 1	
Move the front seats forward. Reinstall the two		Do not over torque the screw.
screws removed from the side of the center	Instruction Ref. Pg. 5	-
console.	Step 11	
	Fig. 1	
Reinstall the two upper screws used to secure the center console bin bezel.	Instruction Ref.	Do not over torque the screws.
	Pg. 6	
	Step 14	
	Fig. 1	

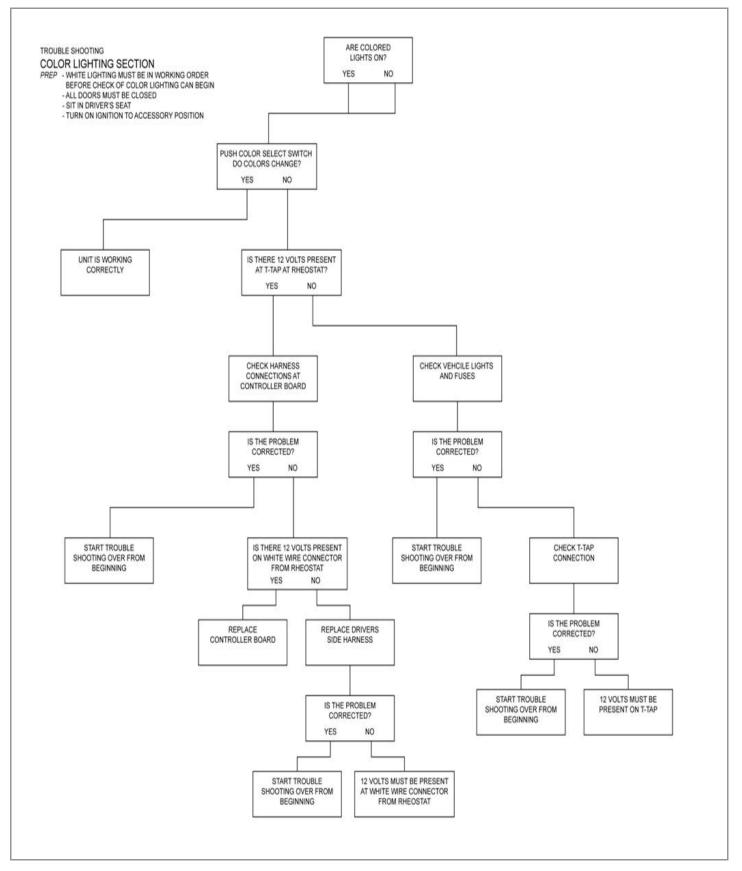
# Reassembly Sheet (Expansion Kit)

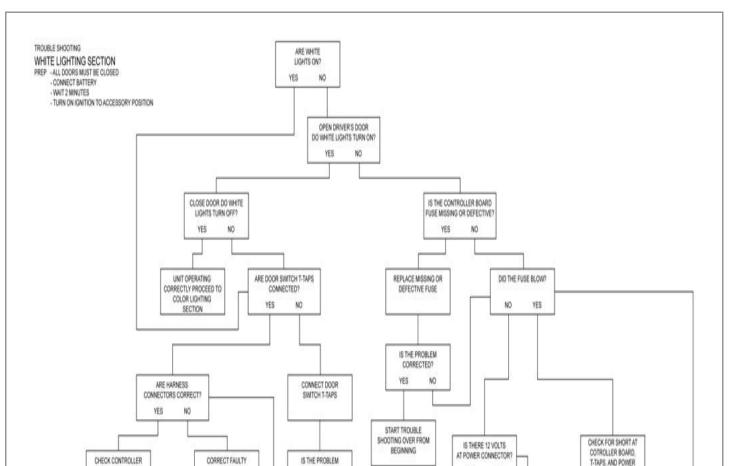
Pg. 14

Item in Question		Visual Review
 		·
Install the trim bezel pieces onto the rear console that were originally removed	Instruction Ref. Pg. 6 Step 13 Fig. 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.
Reinstall the original screw onto the side of the center console forward end on the drivers side of the vehicle.	-	Do not over torque the screw.
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	Instruction Ref. Pg. 3 Step 1 Fig. 1	Ensure that the LED harness wire is not pinched
Reinstall the negative battery cable onto the battery lead. Tighten normally. Ensure no tools are in the engine compartment and close the hood	Instruction Ref. Pg. 3 Step 1 None	Make sure the cables are secure.
	Instruction Ref.	-
	Instruction Ref.	_
	Instruction Ref.	-
	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.





YES

CHECK VEHICLE FUSES

REPLACE AS NECESSARY

IS THE PROBLEM

CORRECTED?

NO

YES

START TROUBLE SHOOTING OVER FROM BEGINNING

REPLACE CONTROL

BOARD

NO

BOARD CONNECTORS

IS THE PROBLEM

CORRECTED?

NO

REPLACE CONTROL

BOARD

YES

START TROUBLE

SHOOTING OVER FROM

BEGINNING

CONNECTION

IS THE PROBLEM CORRECTED?

YES

START TROUBLE

SHOOTING OVER FROM

BEGINNING

NO

CORRECTED?

YES

START TROUBLE

SHOOTING OVER FROM BEGINNING

NÖ

CONNECTOR WIRING

REPLACE FUSE

CHECK AGAIN

DID THE FUSE BLOW?

START TROUBLE SHOOTING OVER FROM BEGINNING

NO

IS THE PROBLEM

CORRECTED?

NO

YES

YES

REPLACE CONTROLLER

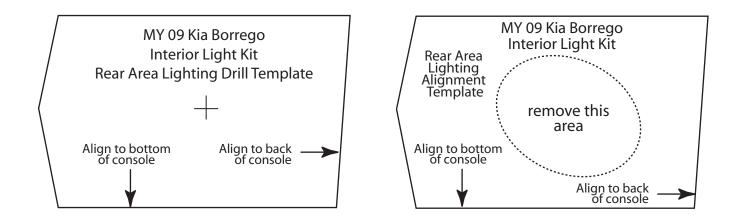
BOARD

# MY 09 KIA BORREGO INTERIOR ILLUMINATION INSTALLATION TEMPLATES

# UPGRADE







2 INCHES -