

Toyota

Avalon

2011 -

Interior Light Upgrade

Part Number 00016-00095

Accessory Code: IL2



Conflicts

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Kit Contents

Item #	Quantity Req'd.	Description
1	1	"Y" Adapter
2	1	Wire harness
3	1	Hardware Kit
4	2	White Light Modules
5	1	Switch Kit
6	2	Amber cup holder kits
7	1	Customer Information card

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	4	Wire tie .0625
2	5	foam pads
3	2	T-Taps
4	4	Modules Screws

Switch Bag Contents

Item #	Quantity Req'd.	Description
1	1	Switch
2	1	End Cap, Black
3	1	Illumination Nameplate
4	1	Installation tool
5	1	Bezel
6	1	Black spacer

Recommended tools

Safety Tools	
Vehicle Protection	
Safety glasses	
Special Tools	
Installation Tools	
Phillips screwdriver	1/4 inch jewelers
Torque wrench	36in. lbs
Nylon Removal Tool	
Pliers	
Diagonal cutter	or wire tie tool
Scissors	
Drill	
1/8" Drill bit	
1/2" Drill bit.	UniBit or step drill rec.
9/32" Drill bit	
Scribe or Center punch	
Masking tape	

Color Applicability/Trim Level

Accessory Color																				

General Applicability

All models of Avalon

Recommended Sequence of Application

Item #	Accessory	
1 *	Overlay	Apply any overlay first
2		
3		

*Mandatory

Legend

STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.

OPERATOR SAFETY: Use caution to avoid risk of injury.

CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.

REVISION MARK: This mark highlights a change in installation with respect to previous issue.

SAFETY TORQUE: This mark indicates that torque is related to safety.



SPECIAL NOTE:

After TMS and Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances the suggested sequence is written for one associate to install and in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality.


A. Check Kit Contents

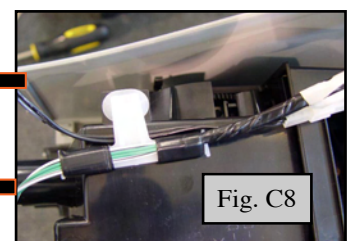
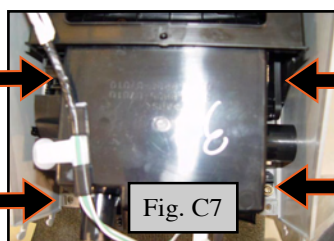
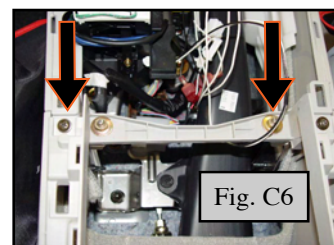
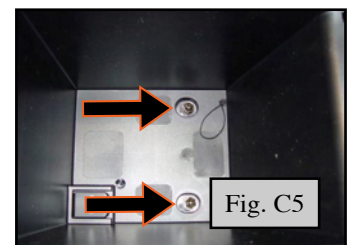
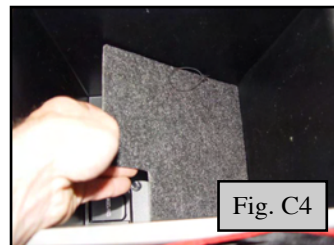
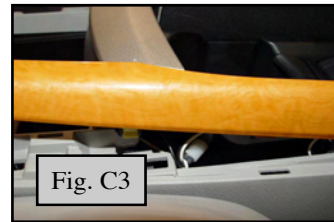
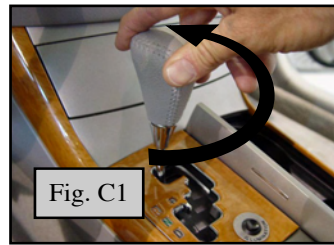
1. Check kit for content and damage. (Fig. A1)

B. Vehicle Preparation

-  1. Remove battery negative terminal.
-  2. Apply protective covering to vehicle

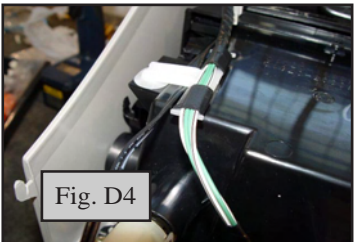
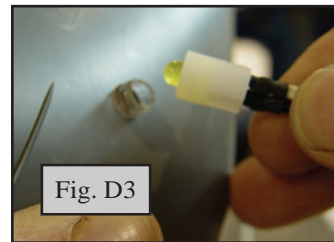
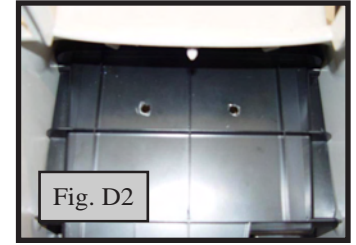
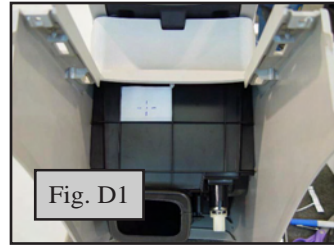
C. Remove center console

1. Remove shift knob. (Fig. C1)
 -  i. Set parking brake.
 - ii. Use panel safe tool.
 - iii. Remove cover. (Fig. C2)
 - iv. Depress interlock and place shifter in "D" position.
2. Remove center console bezel.
 - i. Use panel safe tool.
 - ii. Carefully pry around bezel and partially raise. (Fig. C3)
 - iii. Disconnect any cables.
 - iv. Remove from vehicle
3. Remove felt insert. (Fig. C4)
4. Remove (2) 12mm bolts. (Fig. C5)
5. Remove (2) screws. (Fig. C6)
6. Slide console towards rear while lifting rear, remove from vehicle.
7. Remove forward storage bin
 - i. Remove (4) philips screws. (Fig. C7)
 - ii. Disconnect auxiliary power lead. (Fig. C8)
 - ii. Lift storage box out of console.



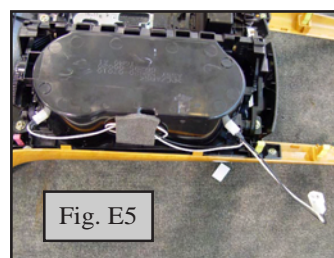
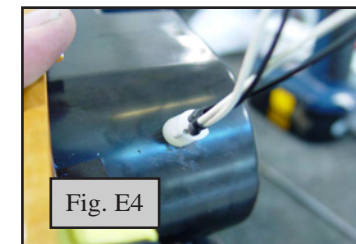
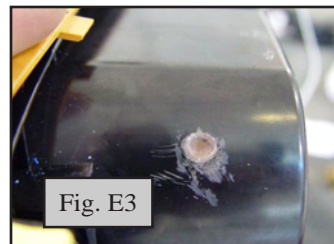
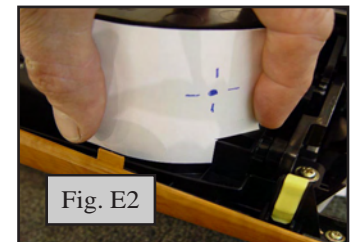
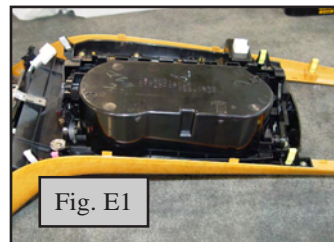
D. Install Storage box Lights

1. Cut out “Avalon storage box” template.
 - i. Align template as shown. (Fig. D1)
 - ii. Use a punch/scribe to mark the center of the hole to be drilled.
 - iii. Drill pilot holes with 1/8” drill bit.
 - iv. Drill the lamp hole with a 9/32” drill bit.
 - v. De-burr holes with de-burring tool. (Fig. D2)
2. Insert lens from inside storage box.
3. From outside of storage box, install the LED’s onto the lenses. Press firmly while holding the Lens from the inside. (Fig. D3)
4. Attach “Y” adapter and route wires forward tucking in alongside existing wires. (Fig. D4)
5. Secure excess with foam pad



E. Install cup holder lights.

1. Place center console as shown. (Fig. E1)
2. Cut out enclosed paper template “Avalon Cup Holder”.
 - i. Align template as shown. (Fig. E2)
 - ii. Use punch or scribe to mark where to drill.
 - iii. Drill pilot holes with 1/8” drill bit.
 - iv. Drill the lamp hole with a letter 9/32” drill bit.
 - v. De-burr holes with de-burring tool.
 - vi. Flip template over for second cup holder and repeat steps i-v.
3. Insert lens from inside of cup holder. (Fig. E3)
4. From outside of the cup holder, install the LEDs. Press firmly while holding the Lens from the inside. (Fig. E4)
5. Orient connector towards rear of vehicle. Secure excess wire with foam pad. (Fig. E5)



F. Install power Switch

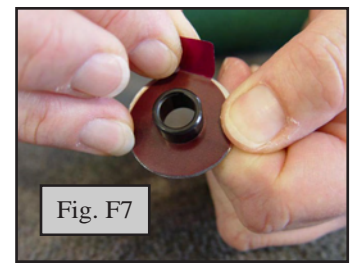
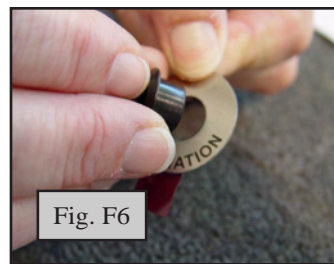
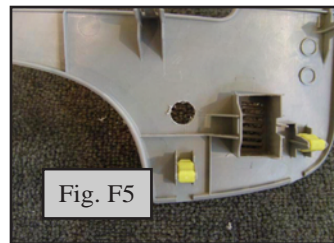
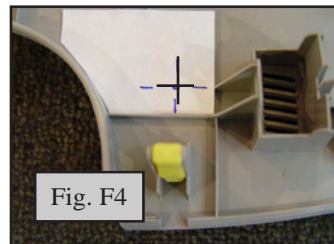
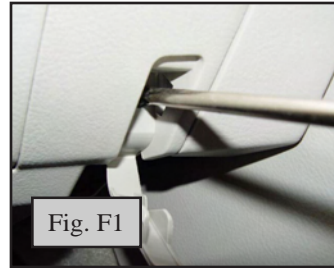
1. Remove knee bolster.
 - i. Remove (1) screw behind pull down cover on lower right side. (Fig. F1)
 - ii. Remove plastic nut on left hand side kick panel. (Fig. F2)
 - iii. Pull kick panel to side and remove (1) 10mm bolt. (Fig. F3)
 - iv. Grasp knee bolster firmly and pull from top.
 - v. Disconnect hood release cable and remove knee bolster from vehicle.

2. Drill hole for switch.
 - i. Cut out enclosed paper "Avalon Switch" template.
 - ii. Place template so hole drilled will be oriented as pictured. (Fig. F4)
 - iii. Place template in area indicated. Use a punch or scribe to mark center of the hole to be drilled.
 - iv. Using a 1/2" drill bit (Unibit or step drill is highly recommended), drill the switch hole. (Fig. F5)

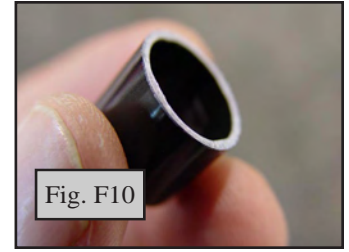
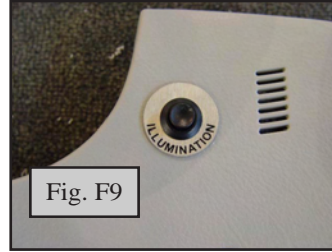
3. Clean console surface to remove grease and wax.
 - i. Wipe the application area clean with alcohol and a clean no-scratch cloth
 - ii. Dry the installation area using a clean, dry, lint free cloth.

4. Insert switch bezel into switch plate. (Fig. F6)

5. Using the pull-tab, remove the tape liner from the back of the switch plate. (Fig. F7)
 - i. Avoid finger contact with the adhesive surface.



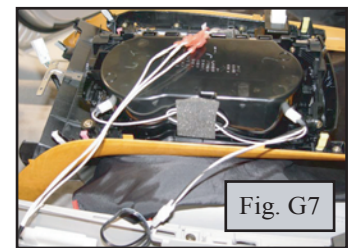
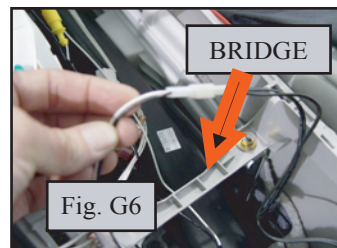
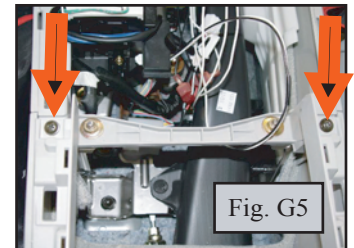
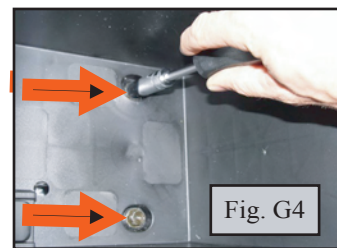
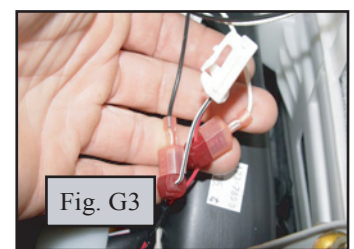
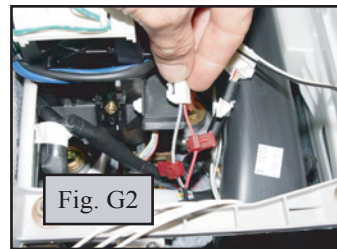
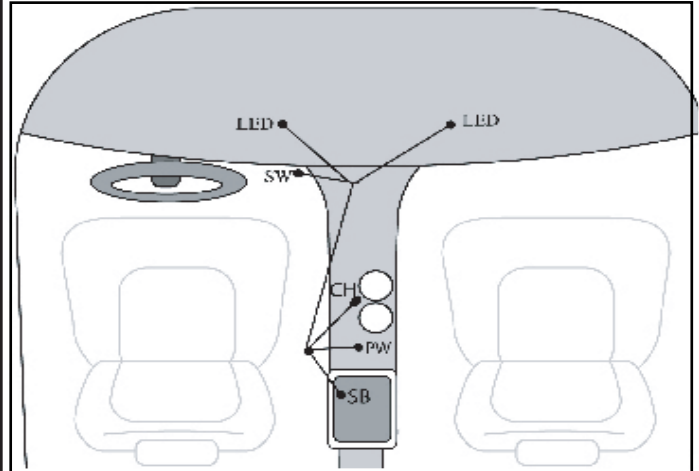
6. Using the knee bolster as a guide, install switch plate/bezel into the previously drilled 1/2" hole.
 - i. Align the printing "ILLUMINATION" square to the knee bolster. (Fig. F9)
 - ii. Once aligned, press down firmly to adhere tape.
7. Install Sleeve to bezel.
 - i. The "white" ink end of the sleeve must be installed against the console. (Fig. F10)
 - ii. Using switch tool turn switch bezel clockwise to tighten.
 - iii. Be careful not to over tighten as this will "over ride" the threads on the switch. If this happens simply retighten being careful not to over tighten.
 - iv. Push button into bezel pressing to engage.
8. Place aside until main harness is installed.



G. Install Harness

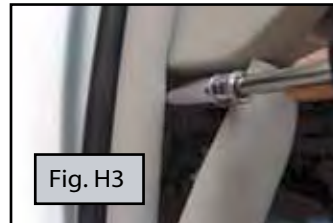
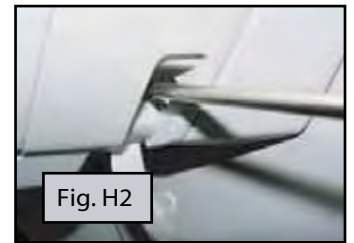
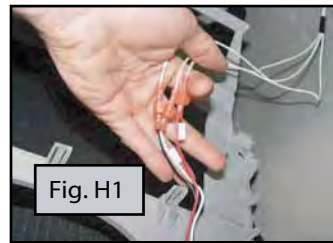
CAUTION: Secure harness with pads and cable ties as needed, keep harness from touching hot or moving objects.

1. Lay out harness as shown and identify connectors. (Fig. G1)
2. Bulk of harness will reside under center console.
3. Locate power.
 - i. Locate auxiliary power connector in center of console.
 - ii. Install T-taps in staggered fashion. (Fig. G2)
4. Attach harness to power. (Fig. G3)
 - i. Black wire on harness to connector DM1 wt/blk pin1.
 - ii. White wire on harness to connector DM1 red pin 2
5. Reinstall rear half of center console making sure that the “Y” adapter leads are pointed forward.
 - i. Slide console forward.
 - ii. Secure (2) 12mm bolts. (Fig. G4)
 - iii. Secure (2) screws on either side. (Fig. G5)
6. Bring “Y” adapter lead forward and route under “bridge “ in center console. (Fig. G6)
7. Attach “Y” adapter to main harness. (Fig. G6)
8. Reinstall center console insert
 - i. Attach cup holder lead (Fig. G7)
 - ii. Caution do not to allow rear LED lamp to bump tab when reinstalling cupholder assembly.
 - iii Gently press insert into place



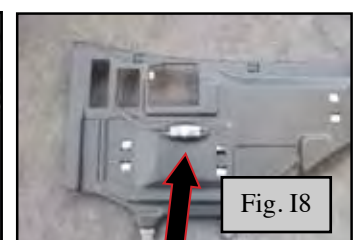
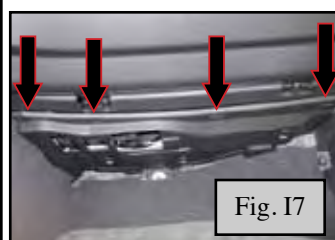
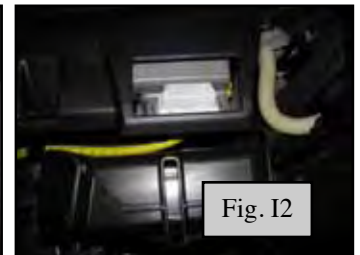
H. Reinstall Knee Bolster

1. Connect switch to main harness
 - i. Connect switch leads, make sure letters match respective connection. (Fig. H1)
2. Firmly press to edge of knee bolster in to clips.
3. Reinstall (1) screw. (Fig. H2)
4. Reinstall (1) 10mm bolt. (Fig. H3)
5. Reinstall (1) plastic nut. (Fig. H4)



I. Install Light Modules

1. Install Driver side Light Module.
2. Locate attachment location as indicated. (Fig. I1-I2)
3. Light module will be attached to air duct facing the front of the vehicle. (Fig. I3)
3. Clean surface to remove and wax.
 - i. Wipe application area clean with alcohol and a clean no-scratch cloth.(Fig. I4)
 - ii. Dry the installation area using a clean, dry, lint free cloth.
4. Using the pull tab remove the tape liner from the back of the switch plate. (Fig. I5)
 - i. Avoid finger contact with the adhesive surface.
 - ii. Press module firmly against surface.
5. Secure module with screws. (Fig. I6)
6. Install passenger side Light Module.
7. Remove passenger side shield by pressing in four tabs located along front edge of shield. (Fig. I7)
8. Locate attachment location indicated by arrow. (Fig. I8)
9. Repeat steps I4 through I6.



J. Post Installation

1. Reinstall interior.
2. Re-attach negative battery terminal, torque to 36 inch pounds.
3. Cycle test the system with the key in the ACC or ON position. The cycle may start from any step below but should cycle in this order.
 - i. All lights off.
 - ii. Cup holder lights on only.
 - iii. All lights on.
 - iv. Interior Light on only.
 - v. Back to step “i”.
4. The switch should be cycled to step “i” (all lights off) for shipment.
5. Place information card in glove box.

VEHICLE FUNCTION CHECK

AFTER ALL PANELS, COVERS, AND COMPONENTS HAVE BEEN REINSTALLED, THAT WERE REMOVED, TEST THOROUGHLY, ALL MECHANICAL AND ELECTRICAL COMPONENTS DISCONNECTED AND OR REMOVED FROM THE VEHICLE DURING THE INSTALLATION OF THIS ACCESSORY.

Section III Functional verification

Check:

Single Unoperational Module

No Operational Modules

Look for:

Full engagement of affected LED module to LED wire harness pigtail connector.

Full engagement of all LED module to LED wire harness pigtail connectors.

Power connection.

Ground connection

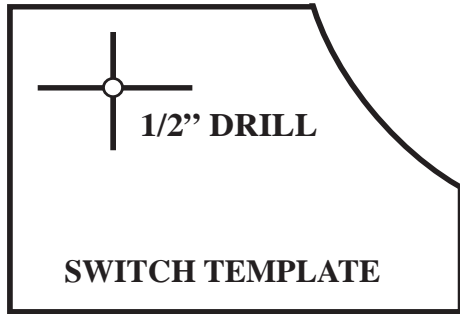
Switch connections

Blown light kit fuse. (2 amp located under center console)

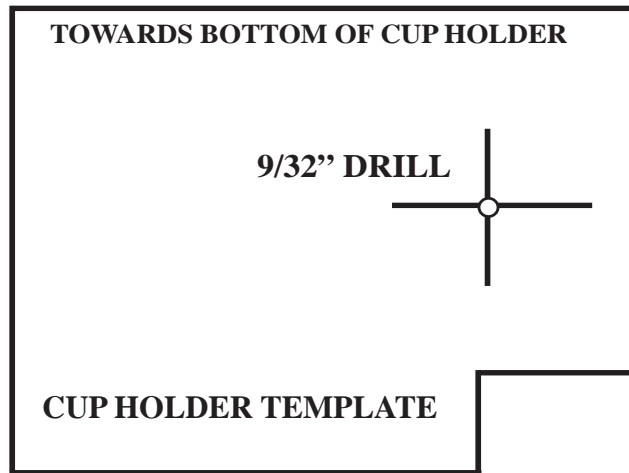
Blown shift console illumination fuse (see vehicle owners manual for amperage and location.)

AVALON TEMPLATES

SWITCH TEMPLATE



CUP HOLDER TEMPLATE



STORAGE BOX TEMPLATE

