

Preparation

Part Number: 00016-21010 (Amber)

00016-21020 (Blue)



Code: YI-1 ,YI-2

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Light Guide, 13"
2	1	Light Guide, 15"
3	1	Wire Harness, Main
4	2	Light Modules
5	1	Switch Bag
6	1	Hardware Bag
7	1	Cup Holder LED Bag
8		

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	10	Wire Ties
2	5	Foam Tape
3	2	T-Taps
4	2	Plastic Saddle
5	2	Plastic Saddle w/bracket
6	4	Blind Rivets
7	2	Rivet Backup Plates
8	1	Switch Installation Tool

Switch Bag Contents

Item #	Quantity Req'd.	Description
1	1	Switch
2	1	Switch Plate
3	1	Bezel
4	1	Sleeve
5	1	Button
6	1	Heat Shrink
7	1	Switch Tool

Recommended Tools

Personal & Vehicle Protection	Notes
Seat covers	
Special Tools	Notes
Blind Rivet Installation Tool	1/8"
Installation Tools	Notes
Drill motor	
Drill Bit	1/8"
Drill Bit	Letter "J" or 9/32"
Drill Bit	1/2" or Step Drill (Unibit)
Deburring Tool	
Pliers (For T-Taps)	
Diagonal Cutter	
Panel Tool	
Heat Gun	
Drill Stop	Letter "J" or 9/32" drill bit
Special Chemicals	Notes
50/50 Alcohol Water Solution	
Window Cleaner	

General Applicability

All

Recommended Sequence of Application

If any other accessories are to be installed, it is recommended they be installed in the order described below to ease installation and/or avoid redundant work.

Item #	Accessory	
1a	Interior Light Upgrade	Interior Light Upgrade and Security and/or Satellite Radio and/or Sub-Woofer and/of Fog Lights should be installed concurrently
1b	Security	Security and Interior Light Upgrade should be installed concurrently
1c	Satellite Radio	Satellite Radio and Interior Light Upgrade should be installed concurrently
1d	Sub-Woofer	Sub-Woofer and Interior Light Upgrade should be installed concurrently
1e	Fog Lights	Fog Lights and Interior Light Upgrade should be installed concurrently

*Mandatory

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	1	Pilot Hole Template (Switch) (PIO Only)
2	1	Enlargement Fixture (PIO Only)
3	1	Cup Holder Marking Template (PIO Only)
4	1	Pass. Side Marking Template (PIO Only)
5	1	Driver Side Drill Fixture (PIO Only)

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.

Service Parts

PTS21-21050-DL	TC Left Light Rod – 13"
PTS21-21050-PL	TC Right Light Rod – 15"
PTS21-21050-HW	Hardware Kit
PTS21-21050-SK	TC Switch Kit
PTS21-21050-WH	TC Wire Harness
PTS21-21050-BL	Blue L.E.D. Engine
PTS21-21050-AM	Amber L.E.D. Engine
PTS21-21050-BC	Blue Cup Holder Assembly
PTS21-21050-AC	Amber Cup Holder Assembly

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

SPECIAL NOTE: Installation Sequences

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.

1. First Main Step.



(a) Apply protection to seats and floor.



(b) Wear eye protection as necessary.

2. Disassembly of Interior.

(a) Remove shift knob (manual transmission only) by turning counterclockwise. (Fig. 2-1)

(b) Remove shift console by pulling up and back. (Fig. 2-2)

(1) Disconnect the cigarette lighter. (Fig. 2-3)

(2) Remove the wire harness retainer clip from back of console. (Fig. 2-4)

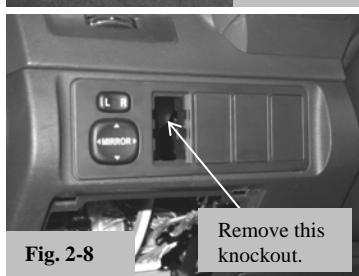
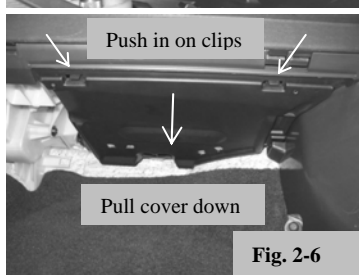
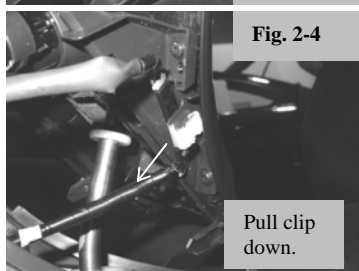
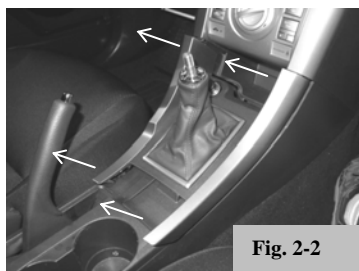
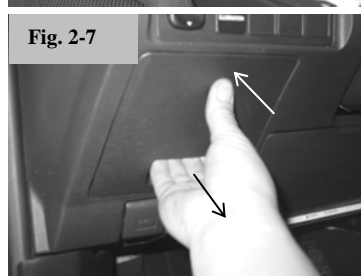
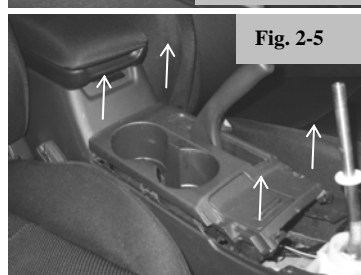
(c) Remove cup holder console by pulling up. (Fig. 2-5)

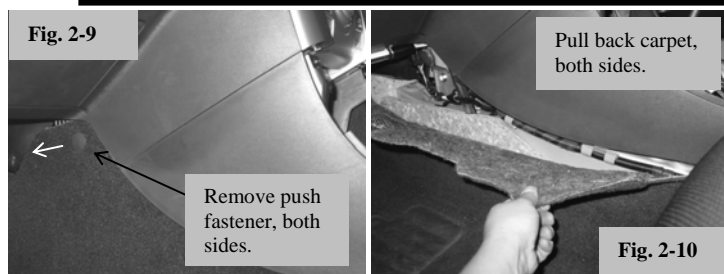
(d) Remove cover from under passenger side dash. (Fig. 2-6)

(1) Push forward on the (2) clips and lower the cover.

(e) Remove the drivers side access cover by pushing in at the top and pulling out and down at the bottom. (Fig. 2-7)

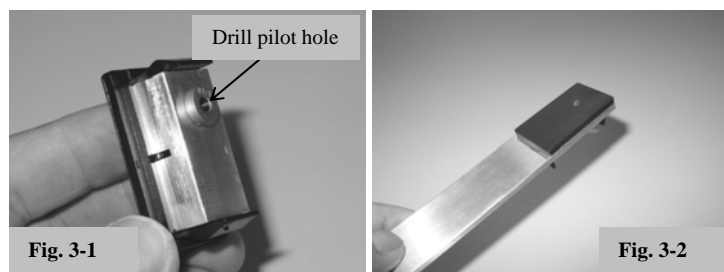
(f) Remove farthest left knockout insert from left hand switch panel. Save for switch assembly. (Fig. 2-8)



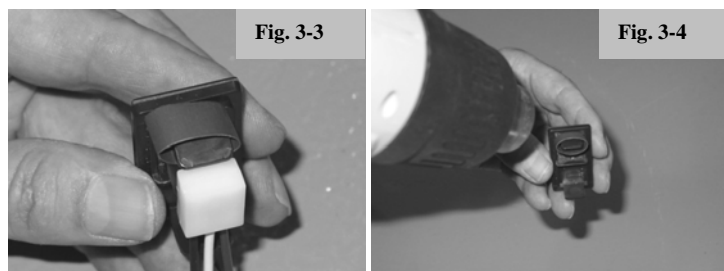


- (g) Under the dash, below the console, using a panel tool, remove the plastic push fasteners to release the carpet. (Fig. 2-9)
- (h) Pull the carpet back and from under the console (both sides). (Fig. 2-10)

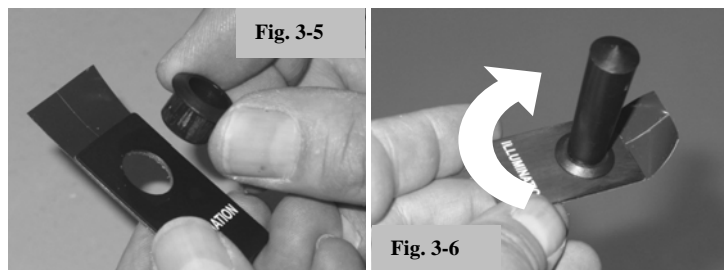
3. Assemble Switch



- (a) Place pilot hole fixture on back of knockout as shown. (Fig. 3-1)
- (b) Drill pilot hole with 1/8" drill bit.
- (c) Remove drill fixture.
- (d) Place knockout on enlargement fixture. (Fig. 3-2)



- (e) Using a 1/2" drill bit (Uni-bit or step drill is highly recommended), drill the switch hole.
- (f) Place heat shrink sleeve on tab closest to the drilled hole. (Fig. 3-3)
- (g) Use a heat gun to shrink sleeve onto tab. (Fig. 3-4)
- (h) Clean the console surface to remove grease and wax.
 - (1) Wipe the application area clean with 50/50 alcohol/water solution and a clean no-scratch cloth.
 - (2) Dry the installation area using a clean, dry, lint free cloth.



- (i) Insert switch bezel into the switch plate. (Fig. 3-5)
 - (1) Firmly insert the switch installation tool into the front of the bezel. (Fig. 3-6)
 - (2) Make sure bezel can rotate freely.

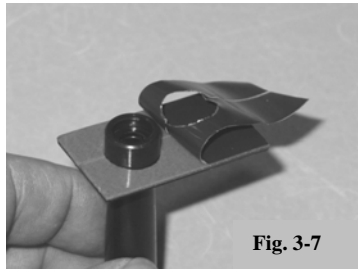


Fig. 3-7



Fig. 3-8

- (j) Using the pull-tab, remove the tape liner from back of switch plate. (Fig. 3-7)



- (1) Avoid finger contact with the adhesive surface.

- (k) Using the bezel as a guide, install switch plate/bezel into the previously drilled 1/2" hole. (Fig. 3-8)



- (1) Align the edges of the switch plate even with the edges of the knockout insert.

- (2) Once aligned, press down firmly to adhere tape.

- (l) Firmly insert the switch installation tool into the front of the bezel.

- (1) You must be able to rotate the bezel using the switch installation tool.

- (m) From the back of the knockout insert, install sleeve to bezel.



- (1) The "white" ink end of the sleeve must be installed against the back of the knockout insert. (Fig. 3-9 & 3-10)

- (n) Install the switch to the bezel as shown (wires at 3:00 position). (Fig. 3-11)



- (o) Tighten the switch as tightly as possible by turning the switch installation tool clockwise. (Fig. 3-12)

- (1) Push in as you turn.



- (p) From the back, turn the switch an additional 1/4 turn clockwise to tighten fully. (Fig. 3-13)

- (1) Wires should be oriented down. (Fig. 3-14)

- (q) Install button onto switch by inserting button into bezel and pressing to engage. (Fig. 3-15)

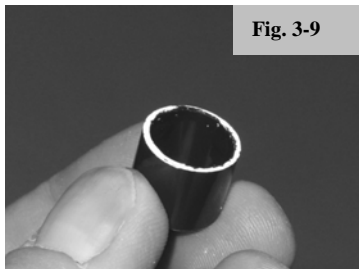


Fig. 3-9

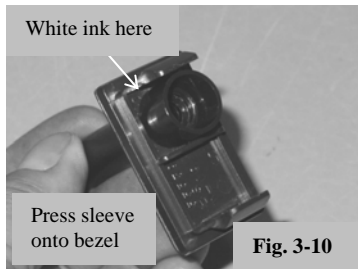


Fig. 3-10

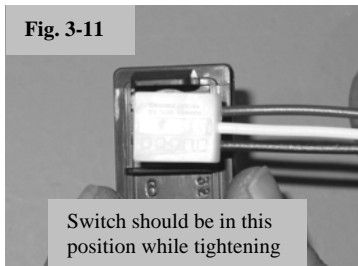


Fig. 3-11

Switch should be in this position while tightening

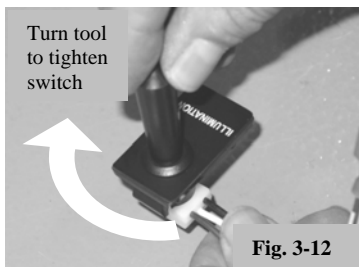


Fig. 3-12

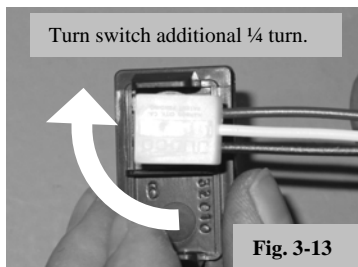


Fig. 3-13



Fig. 3-14



Fig. 3-15

4. Prepare Cup Holder

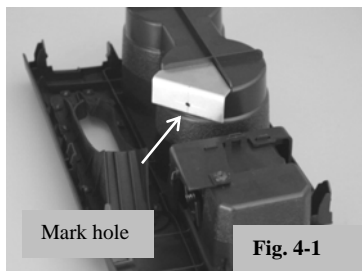


Fig. 4-1

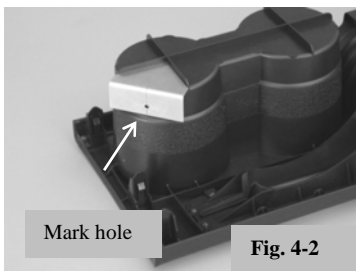


Fig. 4-2



Fig. 4-3



Fig. 4-4

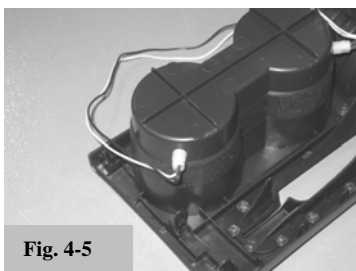


Fig. 4-5

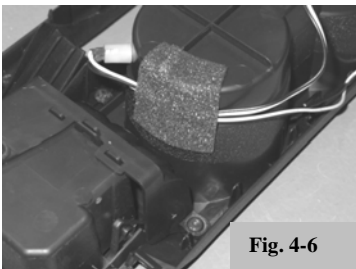
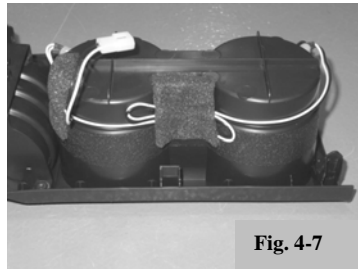


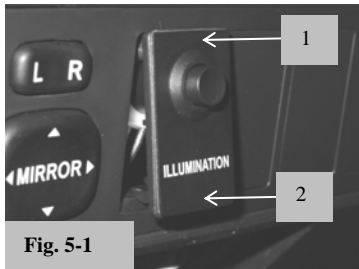
Fig. 4-6

- (a) Align Cup Holder marking template on bottom of the cup holders as shown. (Figs. 4-1 & 4-2)
- (b) Mark pilot hole locations.
- (c) Drill pilot holes with 1/8" drill bit..
- (d) Final drill the pilot holes with a letter "J" drill bit.
- (e) De-burr holes with de-burring tool.
- (f) From inside the cup holders, insert the lenses into the previously drilled holes. Press firmly to ensure the lenses are fully seated. (Fig. 4-3)
- (g) From the back of the cup holders, install the LEDs onto the lenses. Press firmly to ensure the LEDs and lenses are fully engaged. Hold the lenses from inside the cup holder while pressing.
 - (1) Install the LED with the (4) wires and connector on the forward cup holder. (Fig. 4-4)
 - (2) The remaining LED is installed on the rearward cup holder. (Fig. 4-5)
- (h) Guide the wires from the forward cup holder away from the center of the panel.
 - (1) Clean the area as described in Section 3, steps h1 - h2
 - (2) Foam tape the wires to the front of the forward cup holder as shown. (Fig. 4-6)



- (3) Bundle excess wire between the (2) LEDs and foam tape the wire bundle toward the outside and between the cup holders as shown. (Fig. 4-7)

5. Install Wire Harness



- (a) Install the switch assembly back into the farthest left knockout.



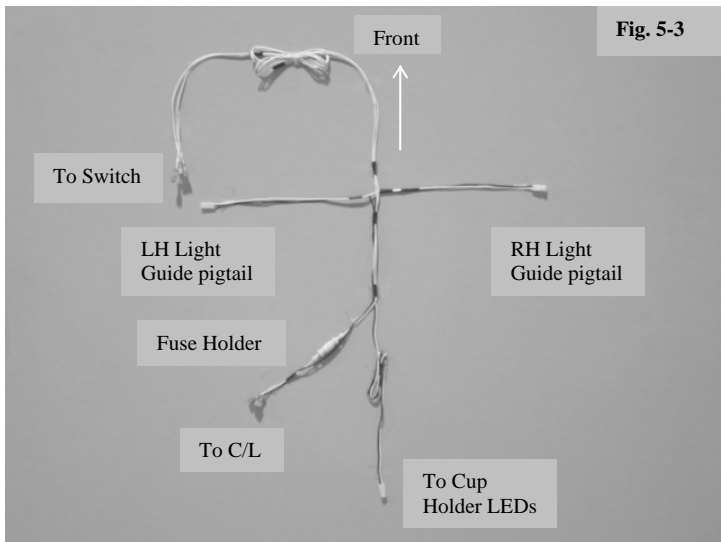
- (1) The tab with the heat shrink sleeve is installed at the top.



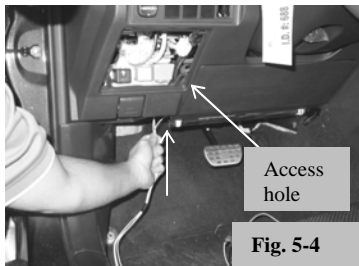
- (2) Insert the tab with the heat shrink sleeve into the opening first, then push in the lower tab. (Fig. 5-1)

- (3) Pull the switch wires down toward the access hole. (Fig. 5-2)

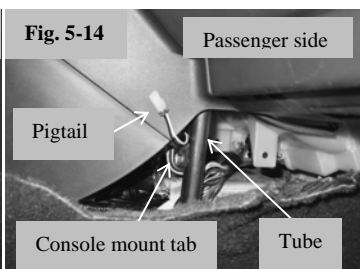
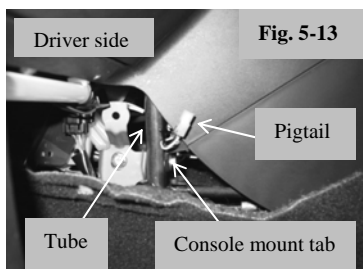
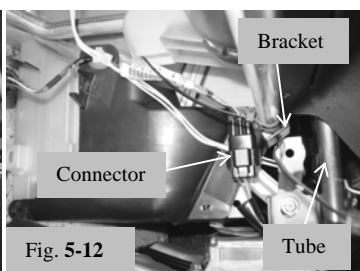
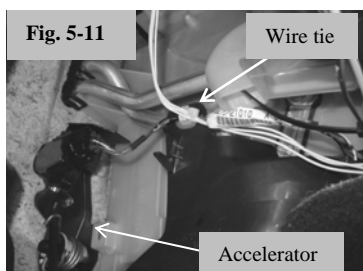
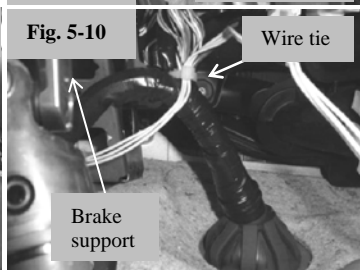
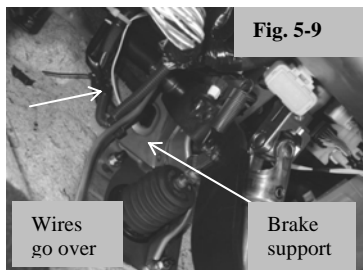
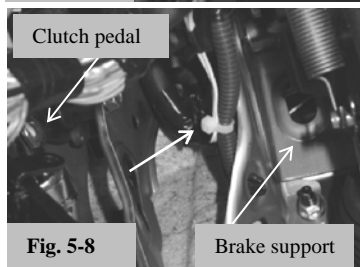
- (b) Route the wires. (Fig. 5-3)



- (1) The three white wires with the red connectors go to the switch.
- (2) The short black and white wires with the yellow fuse holder and red connectors go to the Cigarette Lighter (C/L).
- (3) The (2) short black and white wires with the white connectors go to the Light Modules (L/M).
- (4) The long black and white wires with the white connector go to the Cup Holder LEDs.



- (c) Start by routing the (3) harness switch wires from under driver side dash toward the access hole. (Fig. 5-4)
- (d) The wires should exit the upper right corner of the access hole. (Fig. 5-5)





(e) Connect the wire harness switch wires to the switch. (Fig. 5-6)


(1) The wires are all marked. Simply connect a switch wire connector to the corresponding wire harness connector.


(f) From under the dash, pull the wires back but leave a little slack.


(g) Through the access hole, wire tie the LED harness to the vehicle harness on the wire harness side of the switch connectors. (Fig. 5-7)


 (h) From under the dash, to the left of the brake pedal (above the clutch pedal location), wire tie the LED harness to the vehicle wire harness as shown. (Fig. 5-8)

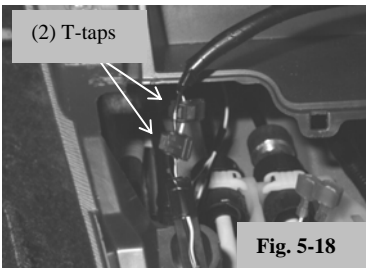
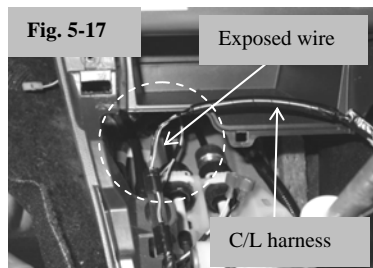
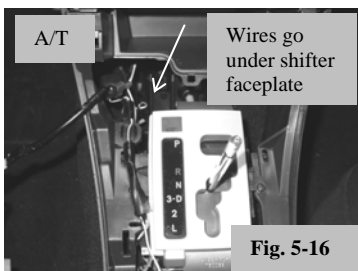
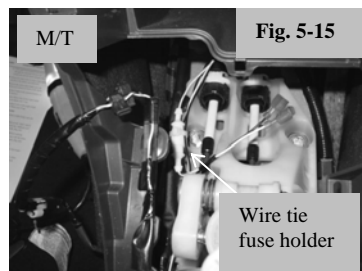
 (i) Route the harness over the brake pedal support. (Fig. 5-9)

 (j) Once over the brake pedal support, wire tie the harness to vehicle wire harness where it enters the interior above the brake pedal as shown. (Fig. 5-10)

 (k) Route the wire toward the OE wire harness mount above the accelerator and wire tie the LED harness to the vehicle harness mount. (Fig. 5-11)

 (l) Route the wires down toward the shifter. The wires should be routed behind the black connector, metal bracket and tube. (Fig. 5-12)

 (m) Both L/M pigtails should be routed through the openings between the console, console mount tabs and the metal upright tubes. (Figs. 5-13 & 5-14)



(n) From inside the console, route the wires from in front of the shifter to the left of the shifter and rearward. (Figs. 5-15 & 5-16)

(o) Wire tie the yellow fuse holder onto the vehicle wire harness in front of the shifter. M/T shown. (Fig. 5-15)

(p) Locate the 2 pin cigarette lighter connector C4.



(q) Install T-Taps on the wires.

(1) Stagger the T-tap locations. (Fig. 5-18)

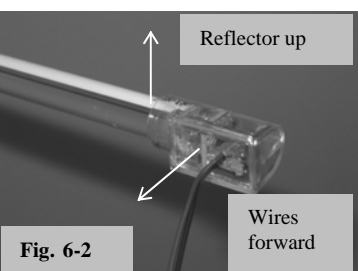
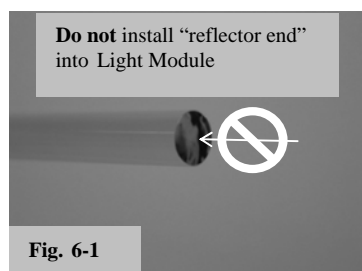
(r) Connect the White wire of the Light Guide to the Black wire (Accessory Power) in Pin 2 of connector C4. Connect the Black wire of the Light Guide to the White/Black wire (Ground) in Pin 1 of connector C4.

(s) Continue routing the wire harness rearward, to the left of the shifter just in front of the hand brake.

6. Assemble Light Guides



(a) Push the LED Module (L/M) firmly onto the Light Guide (L/G).



(1) The L/M is installed on the "clear" end of the L/G. Do not install the "reflector end" of the L/G into the L/M. (Fig. 6-1)

(2) The L/G should be oriented with the white "reflector" at the top with the wires of the L/M directed forward. (Fig. 6-2)

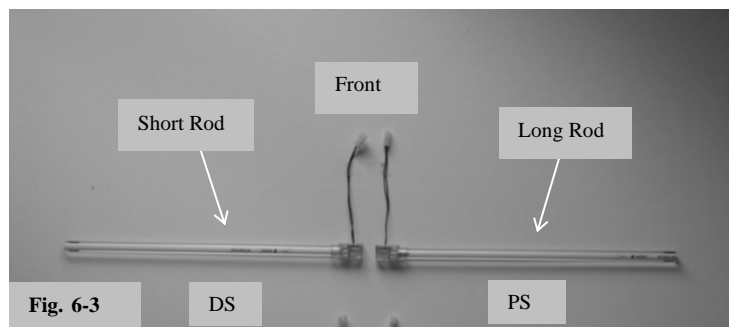


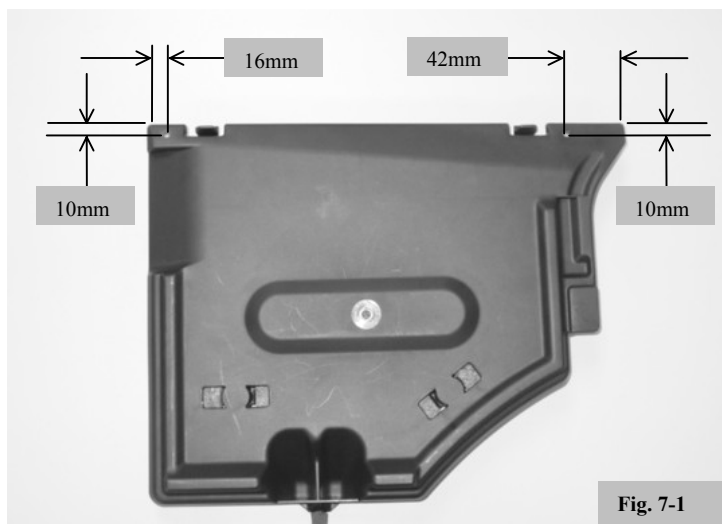
(b) Assemble both L/G assemblies.



(1) The passenger side light rod is the longer of the two. (Fig. 6-3)

(2) The L/M are oriented toward the center of the vehicle with the wires directed forward. (Fig. 6-3)





7. Prepare Under Dash Cover

- (a) Place the PS Cover Marking Template on the cover and mark the hole locations. (Fig. 7-1)
- (b) Drill the marks with an 1/8" drill bit.
- (c) Rivet the (2) plastic saddles to the cover as shown. (Fig. 7-2)

- (1) Use the provided backing plates on the back of the panel to back up the rivets. (Fig. 7-3)

- (d) Install the passenger side Light Guide assembly to the plastic mounts using the 1/4" wire ties.

- (1) Feed the wire ties into the plastic mounts from rear to front, orienting the wire tie "head" towards the front of the cover. (Fig. 7-4)



- (2) Be sure the wire tie goes through both "loops" of the plastic mount. (Fig. 7-5)
- (3) Do not fully tighten at this point.

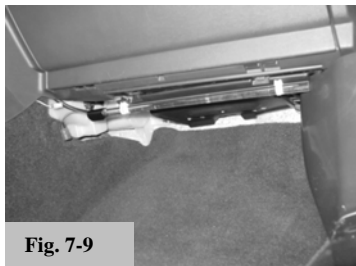
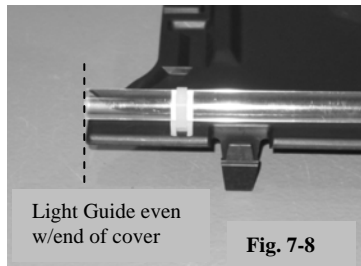
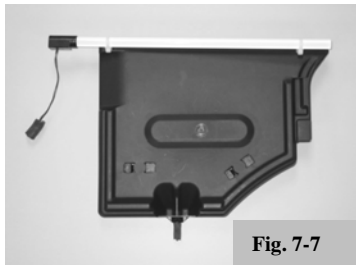
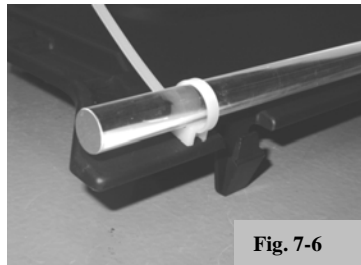
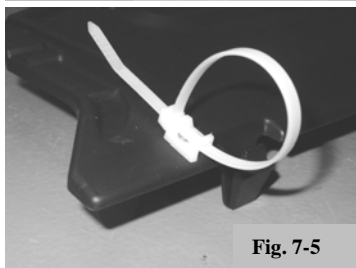
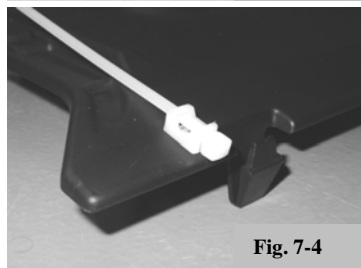
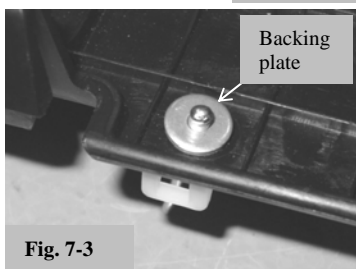
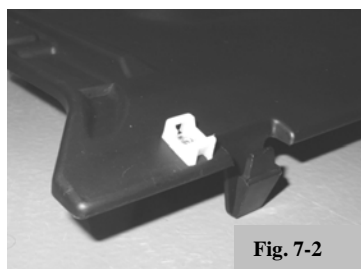
- (4) Install the L/G assemblies into the mounts. The L/G assemblies should be oriented with the white "reflector" at the top, the L/M positioned toward the center of the vehicle with the wires forward. (Figs. 7-6 & 7-7)



- (5) Align the "reflector" end of the Light Guide assembly with end of the panel. (Fig. 7-8)

- (6) Fully tighten the wire ties and cut off excess.

- (7) Reinstall under-dash cover. (Fig. 7-9)



- (8) Connect L/G connector to L/G harness connector. Wrap joined connection with foam tape.

8. Install Driver Side Light Guide

- (a) Place the DS Drill Fixture on the lower edge of the dash as shown.
 - (1) Apply tape under the fixture to protect the dash surface. (Fig. 8-1)
 - (2) The end of the fixture should contact the dash as shown. (Fig. 8-1)
- (b) Mark then drill the holes with an 1/8" drill bit.
- (c) Rivet the metal bracket/plastic mount assemblies to the lower dash holes.

 - (1) The metal brackets mount behind the dash panel. (Fig. 8-2)
 - (2) Make sure the metal bracket is under the plastic rib and flush to the back of the panel when riveting. (Fig. 8-3)
 - (3) The plastic mount faces down.
 - (4) The rivets are inserted from the front of the panel into the brackets.
- (d) Install the driver side Light Guide assembly to the plastic mounts using the 1/4" wire ties.

 - (1) Feed the wire ties into the plastic mounts from rear to front, orienting the wire tie "head" towards the front of the cover. (Fig. 8-4)
 - (2) Be sure the wire tie goes through both "loops" of the plastic mount.
 - (3) Do not fully tighten at this point.
 - (4) Install the L/G assemblies into the mounts. The L/G assemblies should be oriented with the white "reflector" at the top, the L/M positioned toward the center

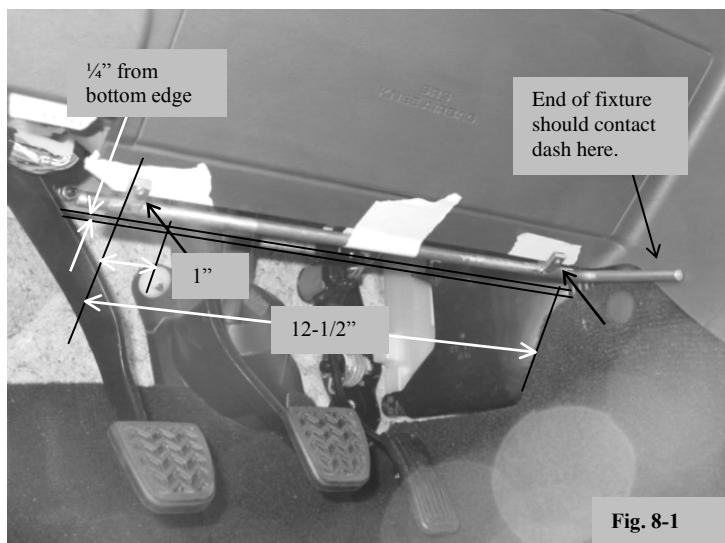


Fig. 8-1



Fig. 8-2

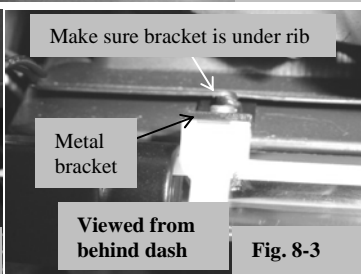


Fig. 8-3

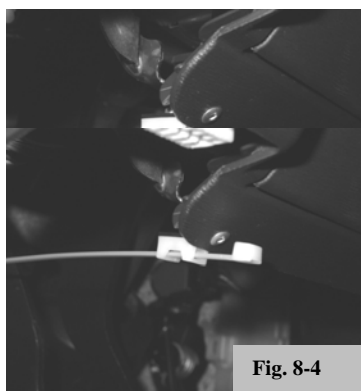


Fig. 8-4

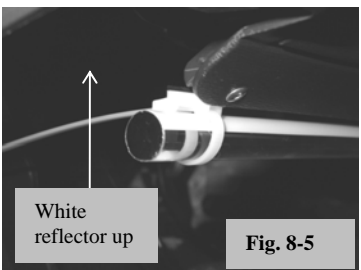
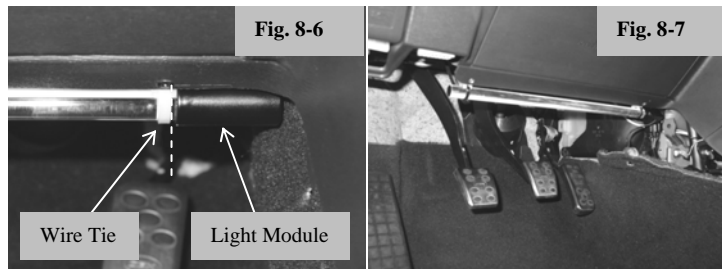


Fig. 8-5



of the vehicle with the wires forward.
(Fig. 8-5)

(5) Align the L/M flush with the inner wire tie. (Fig. 8-6)

(6) Fully tighten the wire ties and cut off excess. (Fig. 8-7)

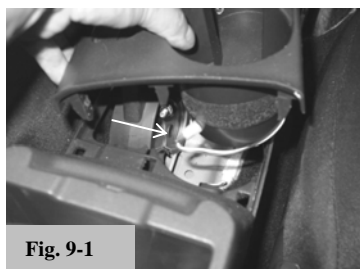
(e) Connect L/G connector to L/G harness connector. Wrap joined connection with foam tape.

9. Post Installation

(a) Tuck carpet back under console. Reinstall push fastener. (Both sides)

(b) Reinstall driver side access cover.

(c) Reinstall cup holder console.



(1) Connect the cup holder LED harness connector to the main harness connector, bundle excess wire and foam tape the connector and excess wire together.

(2) Use care. Do not dislodge the rear cup holder LED when re-installing the panel.
(Fig. 9-1)

(d) Reinstall the shift console.

(e) Reinstall the shift knob.

(f) Clean Light Guides using window cleaner and a non-scratch cloth.

(g) Cycle test the system with key in ACC or ON. The cycle may start from any step below but should cycle in this order.

- (1) All lights off
- (2) Cup holder lights on only.
- (3) All lights on
- (4) Interior Light on only.
- (5) Back to step “(1)”.

(h) The switch should be cycled to step “(1)” (all lights off) for shipment.

VEHICLE NORMALIZATION

- (a) Reset the power windows.
 - (1) Turn ignition key to ON position.
 - (2) Push down the power window switches of each door, and lower the windows halfway.
 - (3) Pull up the switches until the windows close and hold switches up for a further one (1) second (minimum.)
- (b) Reset the power moon roof.
 - (1) Push and hold moon roof switch to close side until moon roof closes. Hold for a further two (2) seconds.
- (c) Reset the tailgate door.
 - (1) Push door lock control switch to the “unlock” side.
 - (2) Pull up tailgate door handle.

SCION tC 2005 - INTERIOR LIGHT UPGRADE

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:	Look For:
<u>Accessory Function Checks</u>	
<input type="checkbox"/> <u>Single Unoperational Module or LED</u>	<ul style="list-style-type: none">• Full engagement of affected LED Module to LED wire harness pigtail connector.• Dislodged cup holder LED.
<input type="checkbox"/> <u>No Operational Modules or LEDs</u>	<ul style="list-style-type: none">• Full engagement of all LED Module to LED wire harness pigtail connectors.• Power connection.• Ground connection.• Switch connections.• Blown light kit fuse. (2Amp, located under shift console)• Blown cigarette lighter fuse. (see vehicle owners manual for Amperage and location.)
<u>Vehicle Function Checks</u>	
<input type="checkbox"/> Cigarette Lighter	<p>Has the connector been re-connected?</p> <p>Blown fuse. (See vehicle owner's manual for Amperage and location.)</p>