

Toyota

4RUNNER

2010-

Interior Light Upgrade

Part Number 00016-00095

Accessory Code: IL10



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**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**

<b>Safety Tools</b>	
Vehicle protection	
Safety glasses	
<b>Special Tools</b>	
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	
1/2" Punch	For cupholder inserts

**Color Applicability/Trim Level**

Accessory Color																			

**General Applicability**

All models of 4RUNNER
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**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.

**Kit Contents:**

Part Name

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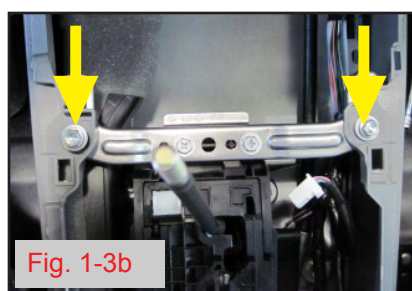
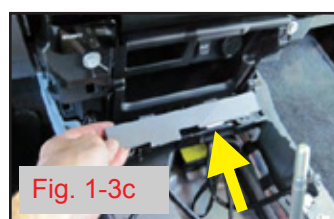
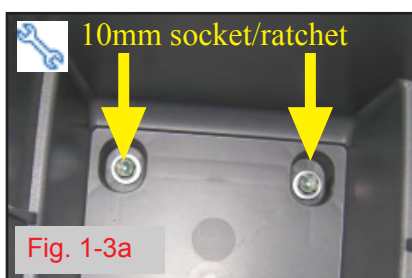
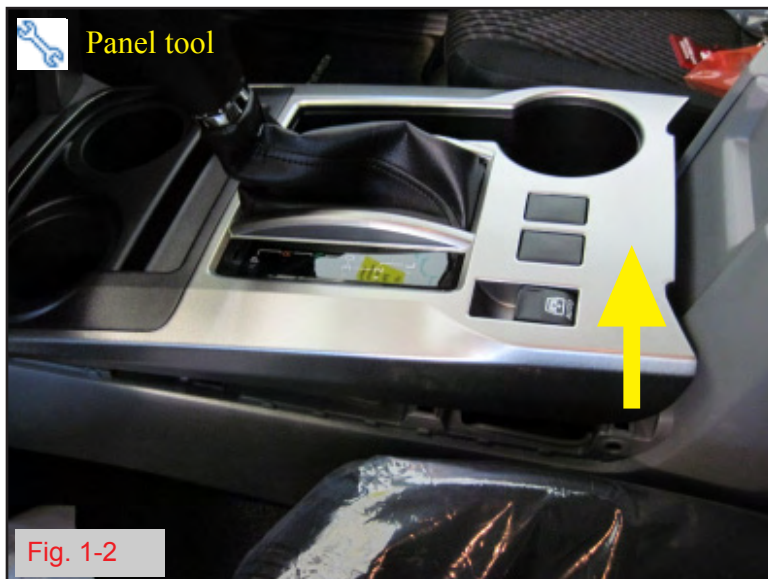
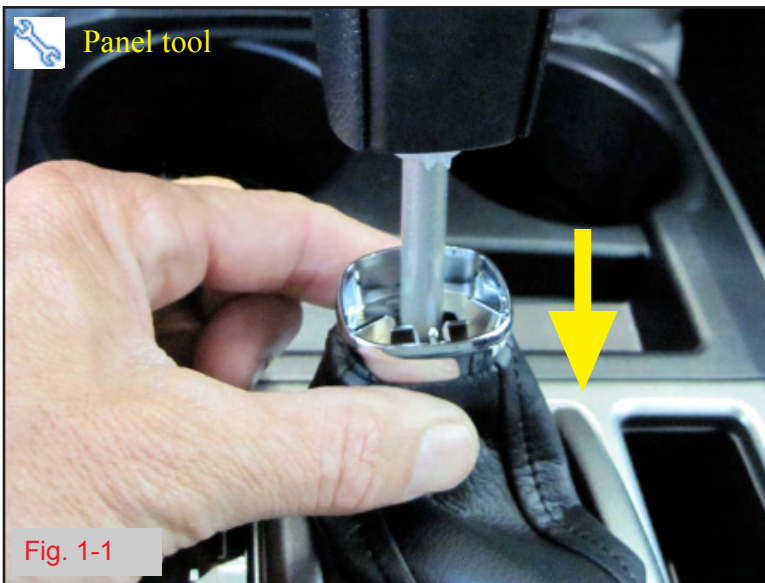
**Accessory Installation Practice (read before installation)**

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.

These guidelines can be found in the “Accessory Installation Practices” document.

This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.)
- Safety (eye protection, checking torque procedure, etc.)
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.)
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)



## 1. Check Kit Contents

- a. Check kit for content and damage.

## 2. Vehicle Preparation



- a. Remove battery negative terminal.

CAUTION: do not touch the positive terminal with any tool during removal

- b. Apply protective covering to vehicle.

## 3. Remove center console

- a. Remove Shift knob



1. Set parking brake.

2. Use panel safe tool.

3. Pry around shift boot trim and lower. (Fig. 1-1)

4. Unscrew shift knob turning counter clockwise. (Fig. 1-1)

5. Use panel safe tool.

6. Pry around rear edge of insert.

7. Remove from vehicle

- b. Remove center console lower unit.

1. Remove pad, if present, covering bolts located in bottom of rear storage bin

2. Using 10mm socket remove two (2) bolts located in storage box. (Fig. 1-3a)

3. Using 10mm socket remove two (2) bolts located just ahead of shifter. (Fig. 1-3b)

4. Remove insert indicated by arrow. (Fig. 1-3c)

5. Remove passenger and driver side center console surround. (Fig. 1-3d)

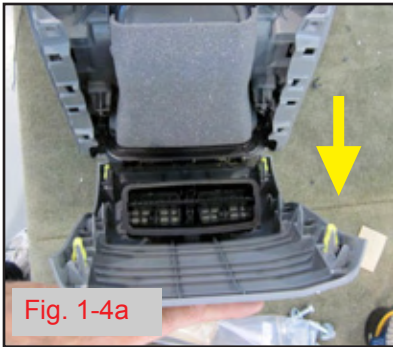

**Phillips Screwdriver**


Fig. 1-4a

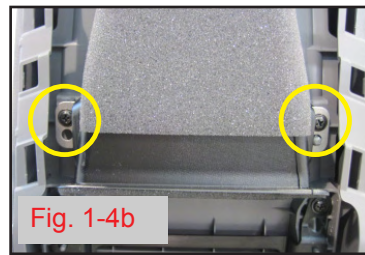


Fig. 1-4b

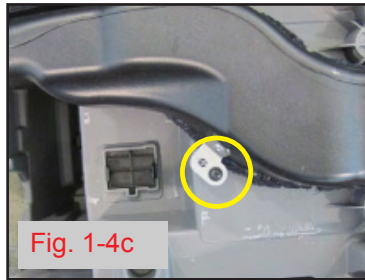


Fig. 1-4c

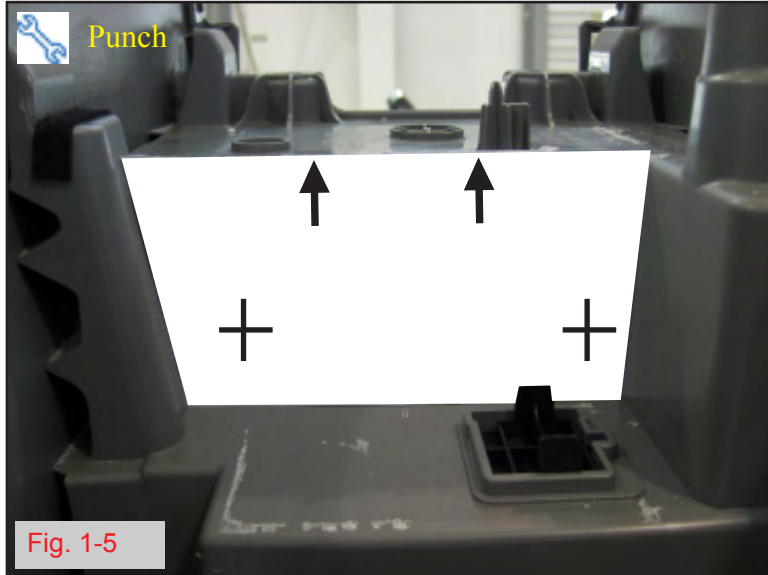


Fig. 1-5

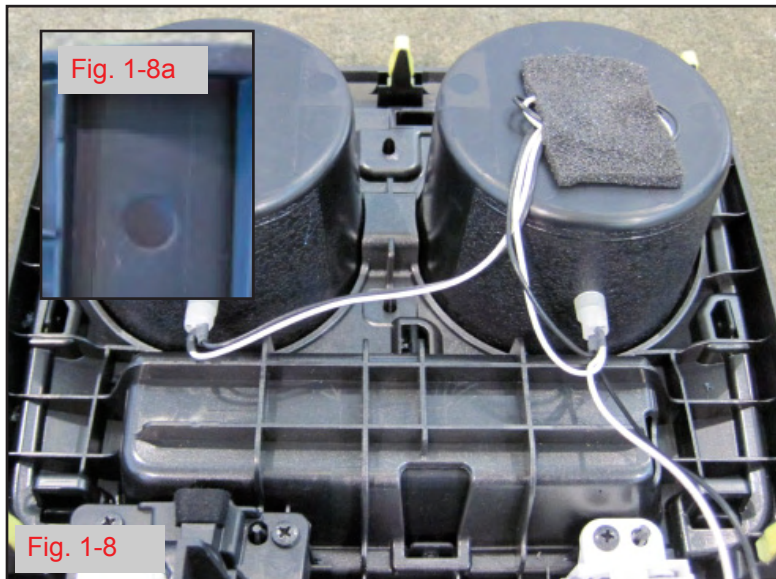
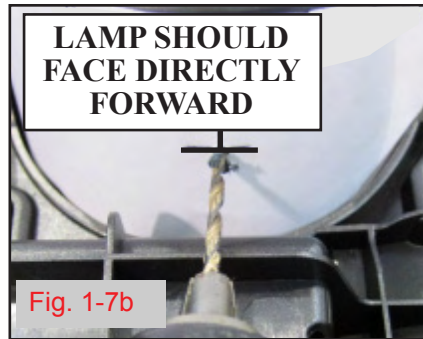
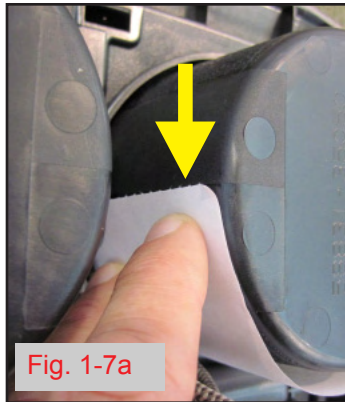


Fig. 1-6

**4. Install Storage Box Lights**

- a. Remove duct work to allow installation.
  1. Remove rear panel vent assembly from center console. (Fig. 1-4a)
  2. Remove three screws indicated by circles to remove duct work (Fig. 1-4b,c)
- b. Drill holes for storage box lights.
  1. Cut out enclosed paper template labeled "Storage box".
  2. Align template as shown use a punch/ scribe to mark the center of the hole to be drilled. (Fig. 1-5)
  3. Drill pilot holes with 1/8" drill bit.
  4. Finally drill hole with a 9/32" drill bit. (Fig. 1-5)
  5. De-burr holes with de-burring tool.
- c. Insert Lens from inside of storage box.
  1. From rear of the of storage box install the LED's onto the lenses. Press firmly while holding the Lens from the inside. (Fig. 1-6)
  2. Use adhesive pad to secure excess wire.
- d. Reinstall duct work
- e. Reinstall rear panel vent assembly



 Punch/Drill


## 5. Install Cupholder lights

**VEHICLES WITH TWO FRONT CUP HOLDER. IF SINGLE FRONT CUP HOLDER PRESENT SKIP TO NEXT PAGE**


## a. Drill Cupholder lamp holes.

1. Cut out enclosed paper template labeled "Cupholder".

**NOTE: review template and select correct location to drill based on cup holder configuration**

2. Align template so it is at the edge of the textured plastic indicated by arrow. (Fig. 1-7a)

3. Align template as shown use a punch/ scribe to mark the center of the hole to be drilled. (Fig. 1-7a)


4. Do not remove rubber insert. Allow pilot drill bit to penetrate insert to create guide hole for punch. 

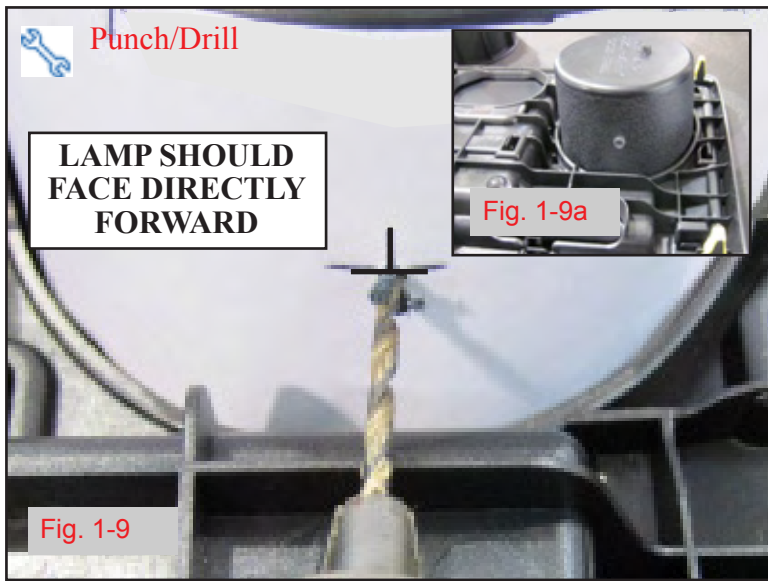
5. Drill pilot holes with 1/8" drill bit. (Fig. 1-7b)

6. Remove insert.

7. Finally drill hole with a 9/32" drill bit.

8. De-burr holes with de-burring tool.

- b. Insert Lens from inside of cupholder.
- c. Install the LED's onto the lenses. Press firmly while holding the Lens from the inside.
- d. Punch holes in rubber inserts. 
  1. Using previously drilled guide hole use 1/2" punch to create hole for light to pass through. (Fig.1-8a)
- e. Secure excess wire with foam pad. (Fig. 1-8)



## 6. Install cup holder lights

### VEHICLES WITH ONE FRONT CUP HOLDER.

#### a. Drill front cup holder lamp hole.

1. Cut out enclosed paper template labeled "cup holder".

**NOTE: review template and select correct location to drill based on cup holder configuration**

2. Align template as shown. (Fig 1-9)

3. Lens insertion shown. (Fig. 1-9a)

4. Align template as shown use a punch/ scribe to mark the center of the hole to be drilled. (Fig. 1-9)

5. Do not remove rubber insert. Allow pilot drill bit to penetrate insert to create guide hole for punch.

6. Drill pilot holes with 1/8" drill bit.

7. Remove insert.

8. Finally drill hole with a 9/32" drill bit.

9. De-burr holes with de-burring tool.

- b. Insert Lens from inside of cup holder.

- c. Install the LED's onto the lenses. Press firmly while holding the Lens from the inside.

- d. Punch holes in rubber inserts.

1. Using previously drilled guide hole use 1/2" punch to create hole for light to pass through. (Fig.1-8a)

- e. Secure excess wire with foam pad.

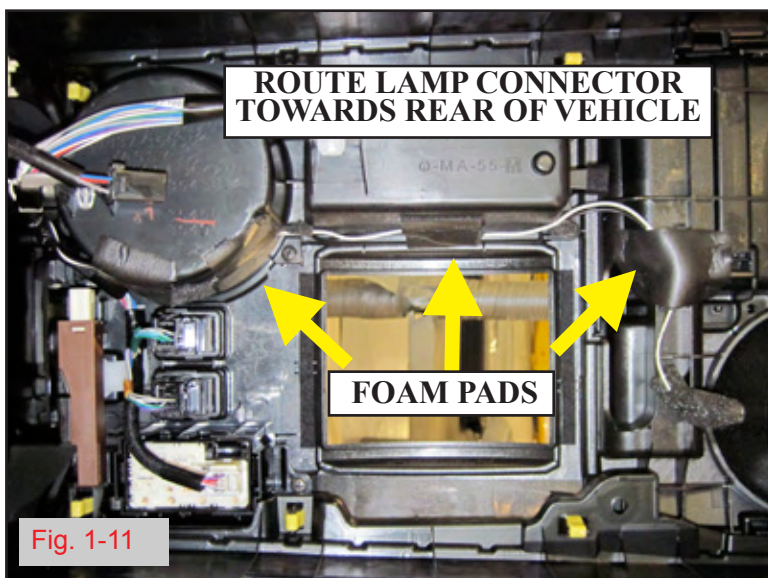
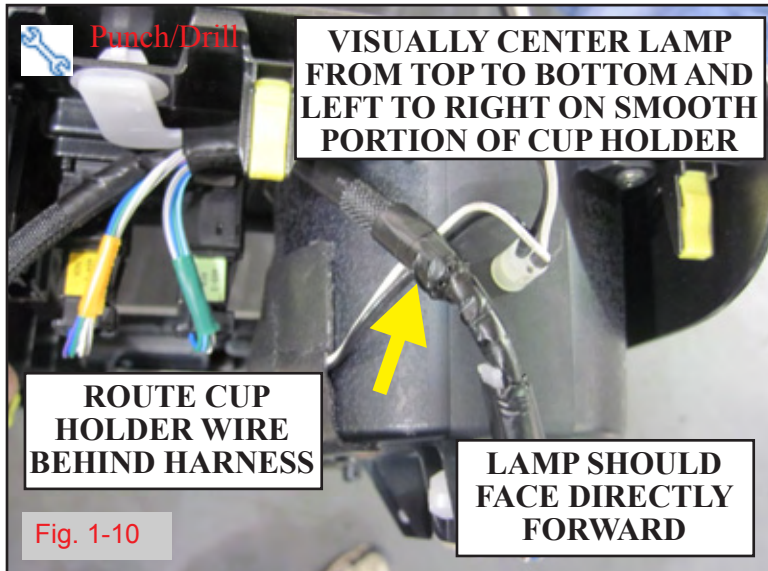
- f. Drill rear cup holder lamp hole

- g. Visual locate area to drill so it is centered top to bottom and left to right on smooth portion of cup holder. (Fig. 1-10)

- h. Repeat steps 5 thru d

- i. Secure lamp harness with foam pads. (Fig. 1-11)

- j. When reinstalling center console insert rear of console in place first to avoid knocking lamp loose.



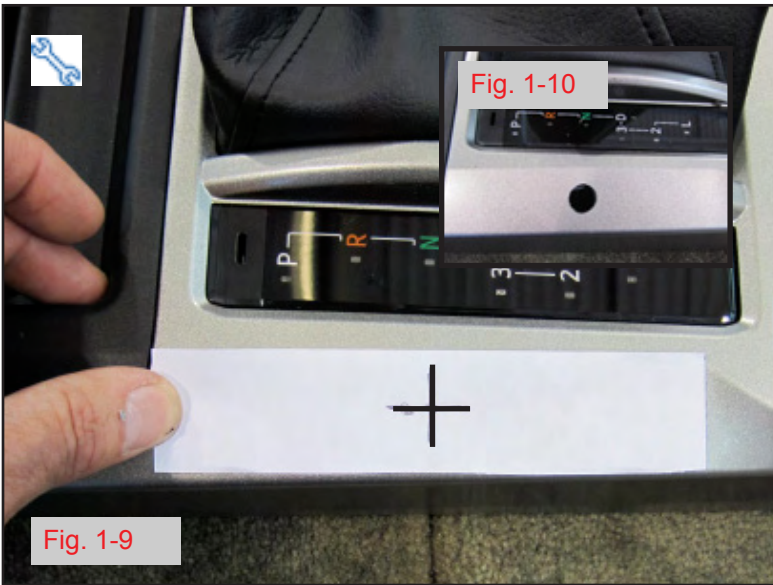


Fig. 1-9

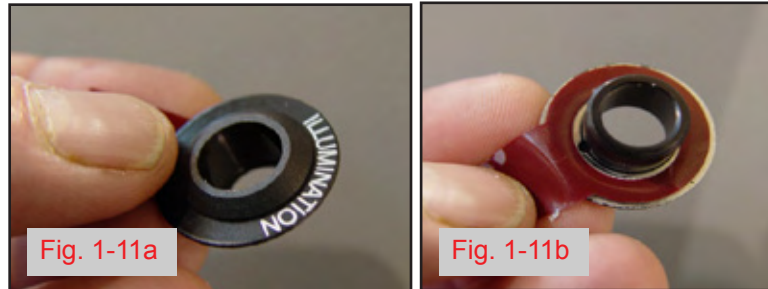


Fig. 1-11a

Fig. 1-11b

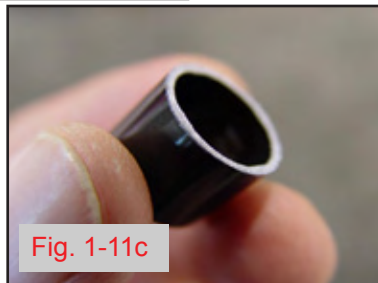


Fig. 1-11c



Fig. 1-12

## 7. Drill hole for switch.

1. Use a punch or scribe to mark center of the hole to be drilled. (Fig. 1-9)
- ⚠ 2. Using a 1/2" drill bit (Unibit or step drill is highly recommended), drill hole as shown. (Fig. 1-10)
  - a. Clean surface to remove grease and wax.
    1. Wipe the application area clean with alcohol and a clean no-scratch cloth.
    2. Dry the installation area using a clean, dry, lint free cloth.
  - b. Insert switch bezel into switch plate. (Fig. 1-11a)
  - c. Using the pull-tab, remove the tape liner from the back of the switch plate. (Fig. 1-11b)
    1. Avoid finger contact with the adhesive surface.
  - d. Using the bezel as a guide, install switch plate/bezel into the previously drilled 1/2" hole. (Fig. 1-10)
    1. Align the printing "ILLUMINATION" square to the console. (Fig. 1-12)
    - ⚠ 2. Once aligned, press down firmly to adhere tape.
  - e. Install Sleeve to bezel, white edge of sleeve goes towards console. (Fig. 1-11c)
  - f. Install switch to bezel as shown.
    1. Using switch tool turn bezel clockwise to tighten.
    2. 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.
    3. Push button into bezel pressing to engage.



## 8. Install light modules

### a. Install passenger side Light Module.

1. Remove kick panel, completed installation shown in picture. (Fig. 1-13a)
2. Attachment location shown in picture. (Fig. 1-13)
3. Wipe application area clean with alcohol and a clean no-scratch cloth. (Fig. 1-14a)
4. Dry the installation area using a clean, dry, lint free cloth.
5. Using the pull tab remove the tape liner from the back of the switch plate. (Fig. 1-14b)
6. Avoid finger contact with the adhesive surface.



7. Press module firmly against surface.
  8. Secure module with screws. (Fig. 1-14c)
- ### b. Install passenger side Light Module.

1. Remove kick panel, completed installation shown in picture. (Fig. 1-15a)
2. Attachment location shown in picture. (Fig. 1-15)
3. Wipe application area clean with alcohol and a clean no-scratch cloth. (Fig. 1-14a)
4. Dry the installation area using a clean, dry, lint free cloth.
5. Using the pull tab remove the tape liner from the back of the switch plate. (Fig. 1-14b)
6. Avoid finger contact with the adhesive surface.
7. Press module firmly against surface.
8. Secure module with screws. (Fig. 1-14c)

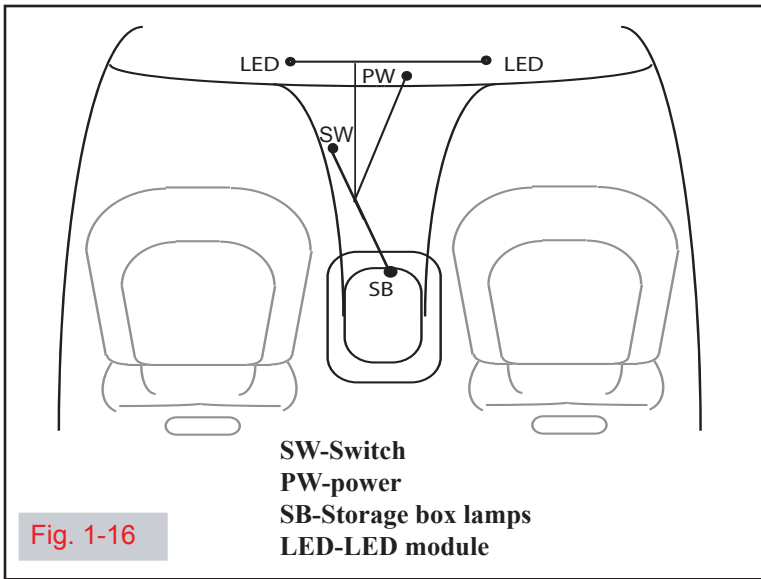


Fig. 1-16



Fig. 1-17

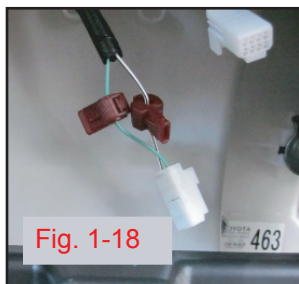
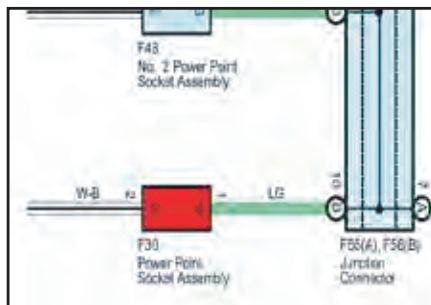


Fig. 1-18



CIRCUIT DESCRIPTION

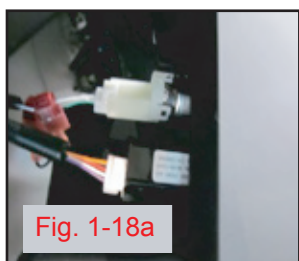
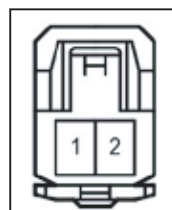


Fig. 1-18a

9. Install Harness

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

- a. Lay out harness as shown and identify connectors. (Fig. 1-16)
- b. Locate power.
  1. Using 10mm socket Remove two (2) bolts securing auxiliary power assembly. (Fig. 1-17)
  2. Disconnect power outlet socket and audio connector and remove auxiliary power assembly.
  3. Install T-taps in staggered fashion. (Fig. 1-18)
- c. Attach harness to power.
  - ⚠ 1. Black wire on harness to white/black wire on power outlet socket. (Fig. 1-18a)
  - ⚠ 2. White wire on harness to green wire on power outlet socket. (Fig. 1-18a)
  - 3. Reinstall auxiliary power assembly
- d. Bulk of harness will reside under center console area in front of shifter assembly.
- e. Route LED module connectors forward and behind kick panels. (Fig. 1-19)
- f. Connect LED module connectors to previously installed light modules
- g. Bundle excess wire ahead of shifter. (Fig. 1-19a)
- h. Attach “Y” connector to harness. (Fig. 1-20)
  1. Attach “Y” connector to rear storage box lamps.
  2. Attach “Y” connector to cupholder lamps
  3. Secure “Y” connector leading to storage box with a foam pad. (Fig. 1-20a)



Fig. 1-19



Fig. 1-19a

- i. Connect switch leads to harness.  
(Fig. 1-21)
- j. Reinstall center console.

**10. Post Installation**



- a. Reinstall interior.
- b. Re-attach negative battery terminal, torque to 36 inch pounds.
- c. Place information card in glove box.

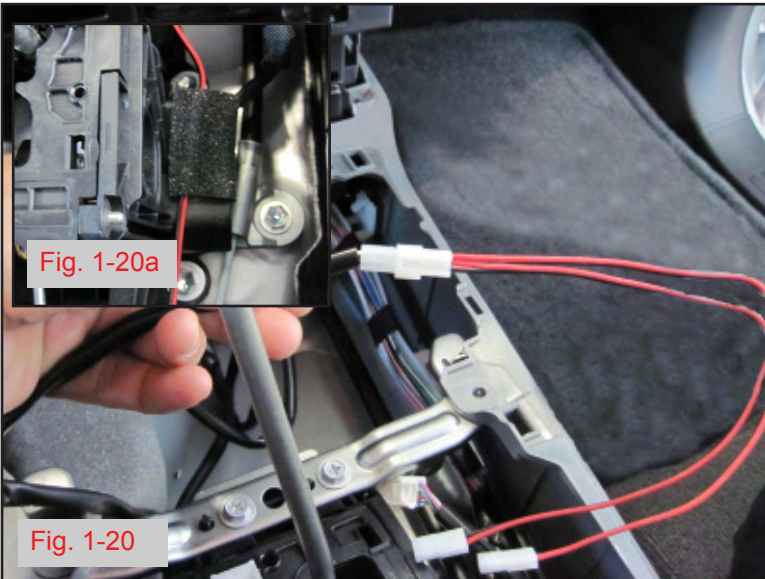


Fig. 1-20a

Fig. 1-20

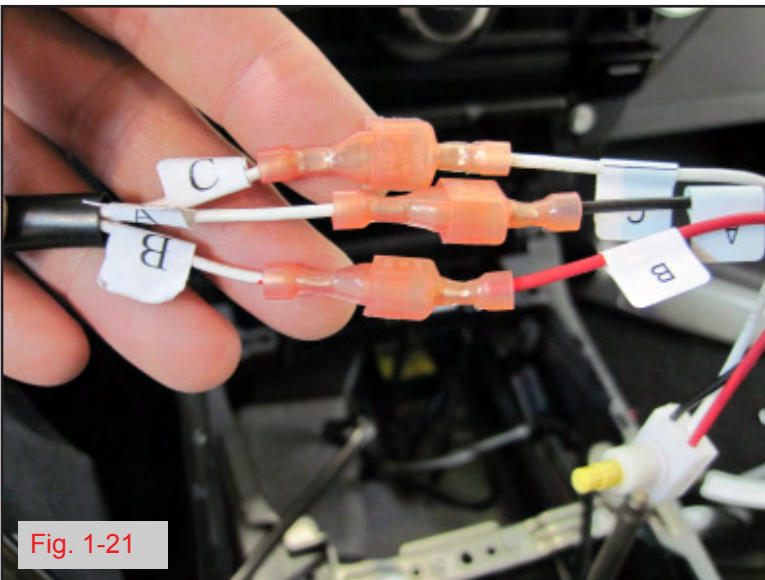


Fig. 1-21

**CHECKLIST** – these points **MUST** be checked to ensure a quality installation.

**Accessory Function Checks**

Major Action Item

	What to do.	What to look for.
1	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.	Storage and cup holder lights on
2	Press lighting power button, second time	Footwell lighting on
3	Press lighting power button, third time	Both footwell and cupholder lights on
4	Press lighting power button, fourth push	All lighting off
5	*Sequence may start in different order than above	
6		
7		
8		
9		

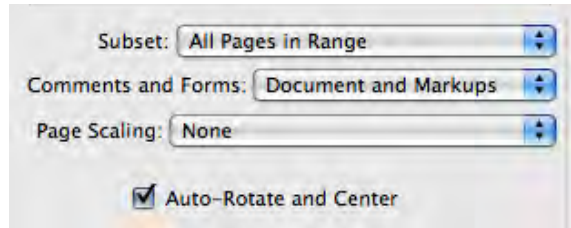
**Vehicle Function Check**

	Function		Function
	Auxiliary power outlet		Verify Auxiliary power outlet

**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.

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### 4RUNNER TEMPLATES

