

Toyota

FJ Cruiser

2010-

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

**Color Applicability/Trim Level**

Accessory Color																				

**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

**General Applicability**

All models of FJ Cruiser
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**Recommended Sequence of Application**

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

**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

\*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.

**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	

**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.

Section II - Installation Procedure

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 knobs (standard transmission only)

- i. Set parking brake.
- ii. Turn shift knob counter clockwise and remove. (Fig. C 1)
- iii. If equipped, turn drive selector counter clockwise and remove. (Fig. C2)

2. Remove center console bezel.

- i. Use panel safe tool.
- ii. Remove parking brake insert. (Fig. C3).
- iii. Pry up rear edge of center console bezel. (Fig. C4)
- iv. Lift partially, slide slightly towards rear and remove from vehicle. (Fig. C5)

3. Remove center console lower portion

- i. Remove rubber insert in storage box
- ii. Remove (2) 10mm bolts. (Fig. C6)
- iii. Remove (2) 10mm bolts. (Fig. C7)

4. Lift rear edge of console lift and remove



Fig. 1A



Fig. C 1

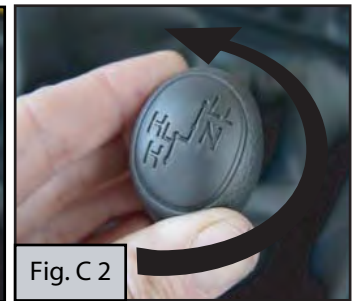


Fig. C 2



Fig. C 3



Fig. C 4



Fig. C 5

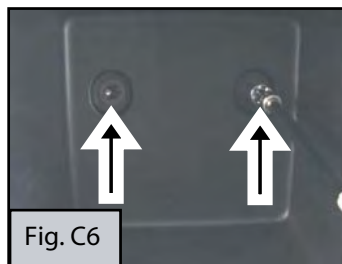


Fig. C 6

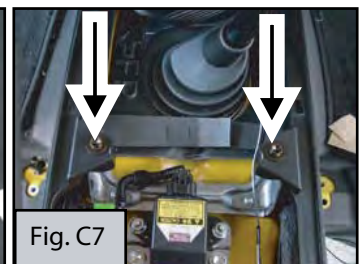
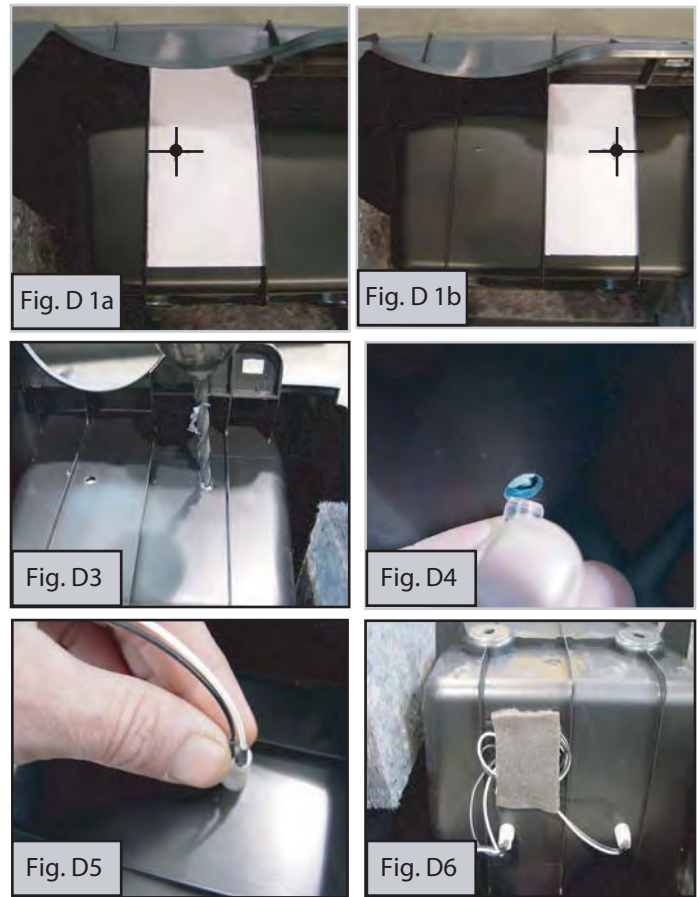


Fig. C 7

Section II - Installation Procedure

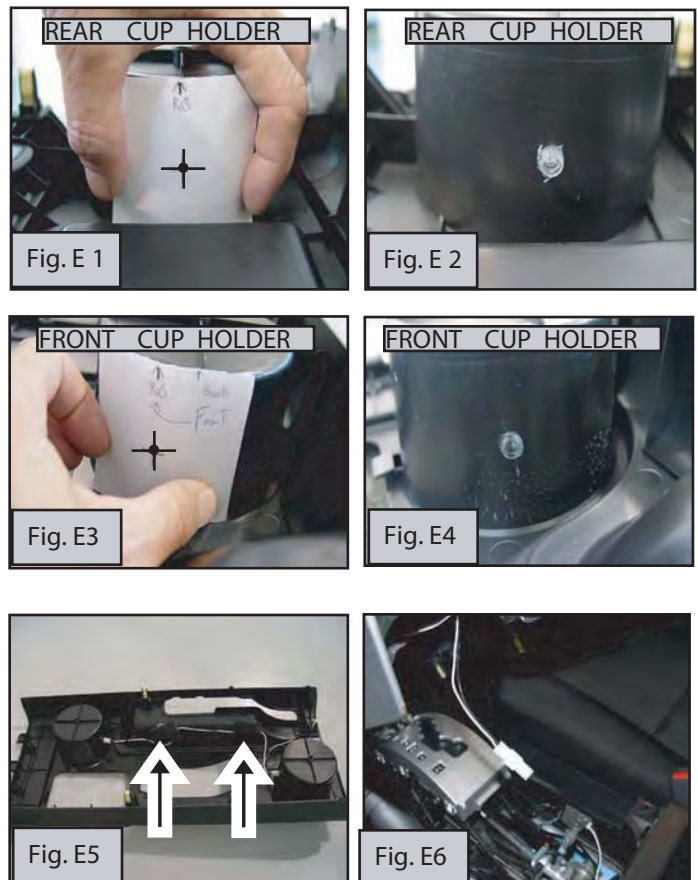
D. Install Storage Box Lights

1. Orient center console assembly as shown. (Fig. D)
2. Drill holes for storage box lights.
  - i. Cut out enclosed paper template labeled "FJ storage box".
  - ii. Align template as shown use a punch/scribe to mark the center of the hole to be drilled. (Fig. D 1a,b)
  - iii. Drill pilot holes with 1/8" drill bit.
  - iv. Finally drill hole with a 9/32" drill bit. (Fig. D3)
  - v. De-burr holes with de-burring tool.
3. Insert Lens from inside of storage box (Fig. D4)
4. Firmly press LED assembly into lens. (Fig. D5)
5. Use adhesive pad to secure wires. (Fig. D6)



E. Install Cup Holder Lights.

1. Drill holes for cup holder lights
  - i. Cut out "FJ cup holder template" template.
  - ii. Align template as shown using ribs in casting for alignment. (Fig. E1 E3)
  - iii. Use a punch/scribe to mark the center of the hole to be drilled.
  - iv. Drill pilot holes with 1/8" drill bit.
  - v. Drill the lamp hole with a 9/32" drill bit.
  - vi. De-burr holes with de-burring tool.
2. Insert lens from inside of cup holder.
3. From the outside of the cup holder, install the LED's onto the lenses. Press firmly while holding the Lens from the inside. (Fig. E2 E4)
4. Use adhesive pad to secure wires. (Fig. E5)
5. Connect lead from center console assembly to harness. (Fig. E6)

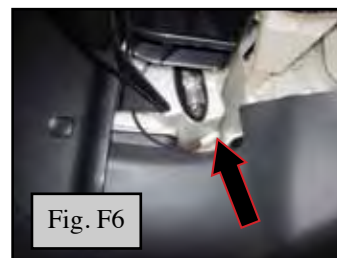
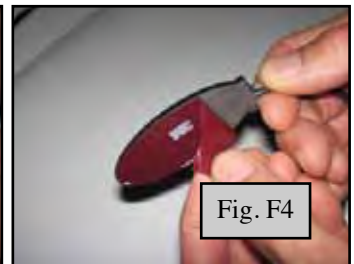


6. Reinstall center console.
7. Reinstall storage box.
8. Using cup holder template as a guide, punch a 1/2" hole in the rubber insert to allow light to illuminate cup holder



**F. Install Light Modules**

1. Install Driver side Light Module.
2. Locate attachment location indicated by arrow. (Fig. F1-F2)
3. Clean surface to remove and wax.
  - i. Wipe application area clean with alcohol and a clean no-scratch cloth.(Fig. F3)
  - 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. F4)
  - i. Avoid finger contact with the adhesive surface.
  - ii. Press module firmly against surface.
5. Secure module with screws. (Fig. F5)
6. Install passenger side Light Module.
7. Locate attachment location indicated by arrow. (Fig. F6-F7)
8. Repeat steps F3 through F7.

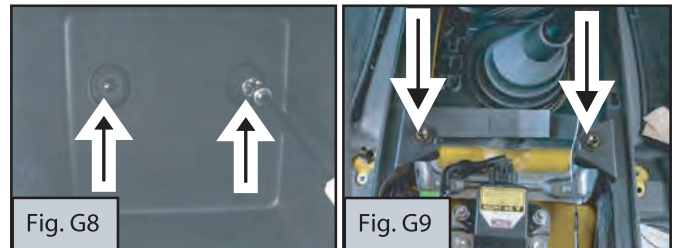
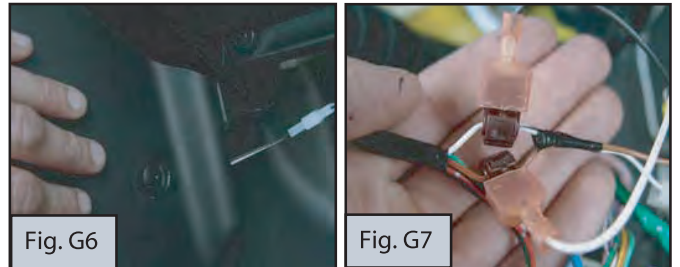
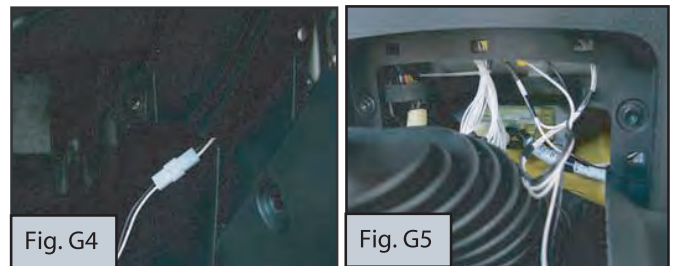
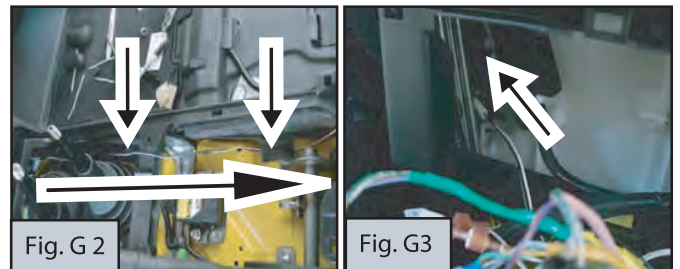
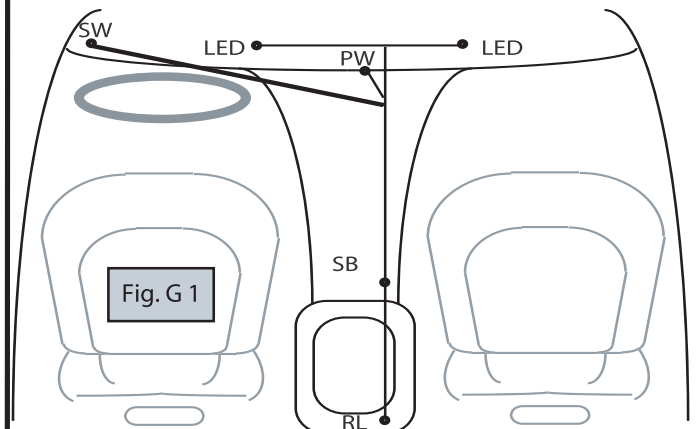


Section II - Installation Procedure

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

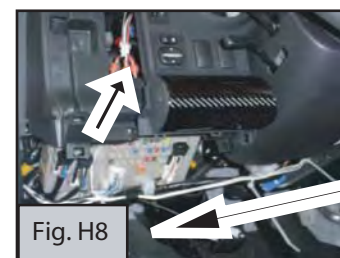
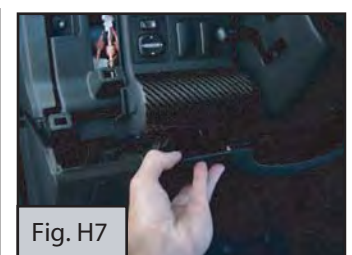
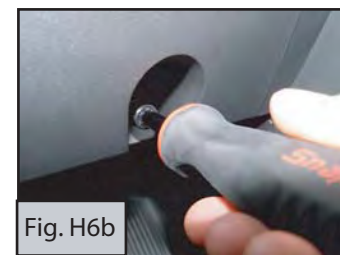
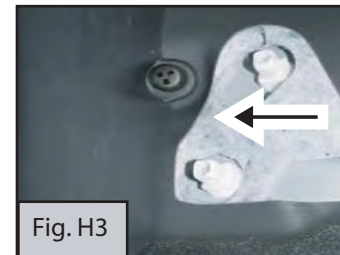
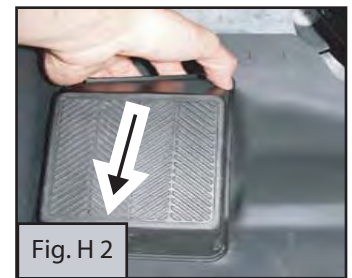
G. Install Harness

1. Lay out harness as shown and identify connectors. (Fig. G 1)
2. Bulk of harness will reside under forward portion on center console ahead of shifters.
3. Route storage box connector to the rear of the center console (Fig. G2)
  - i. Secure with foam pads
4. Route LED connector to driver side of center console as shown. (Fig. G3)
  - i. Connect to LED module. (Fig. G4)
5. Route LED connector to passenger side of vehicle (Fig. G5)
  - i. Connect to LED module. (Fig. G6)
6. Locate power.
  - i. Locate Power outlet socket  $\varnothing$ 25 that was disconnected earlier to remove center console insert.
  - ii. Install T-taps in staggered fashion. (Fig. G7)
7. Attach harness to power. (Fig. G7)
  - i. Black wire on harness to white black wire on power outlet socket (pin1)
  - ii. White wire on harness to brown red wire on power outlet socket (pin2)
8. Install upper half of center console
  - i. Reinstall ( 2 ) 10mm bolts in storage box. (Fig. G8)
  - ii. Reinstall ( 2 ) 10mm bolts in center of lower half of center console. (Fig. G9)
9. Connect rear storage box to harness. (Fig. G10)



H. Route Switch Lead

1. Remove rocker panel cover
  - i. Grasp firmly and pull up (Fig. H1)
2. Remove foot rest
  - i. Pull firmly towards rear of vehicle, (Fig. H2)
3. Unscrew plastic bolt securing forward shield. (Fig. H3)
4. Grasp shield firmly pull towards rear of vehicle and remove. (Fig. H4)
5. Grasp lower portion of air vent and pull back to remove. (Fig. H5)
6. Using 10mm socket remove bolts securing knee bolster. (Fig. H6)
7. Pull knee bolster towards rear of vehicle and remove. (Fig. H7)
8. Using wire ties secure switch lead as shown. (Fig. H8)
9. Reverse order to reinstall removed parts except air vent..



I. Install power Switch

1. Drill hole for switch.
  - i. Visually center switch using dimples embossed in plastic. (Fig. I 1)
  - ii. Use a punch or scribe to mark center of the hole to be drilled.
  - iii. Using a 1/2" drill bit (Unibit or step drill is highly recommended), drill the switch hole.
2. Clean bezel 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.
3. Insert switch bezel into switch plate. (Fig. I2)
4. Using the pull-tab, remove the tape liner from the back of the switch plate. (Fig. I3)
  - i. Avoid finger contact with the adhesive surface.
5. Using the bezel as a guide, install switch plate/ bezel into the previously drilled 1/2" hole.
  - i. Align the printing "ILLUMINATION" square to the console.
  - ii. Once aligned, press down firmly to adhere tape.
6. Install Sleeve to bezel, white edge of sleeve goes towards console. (Fig. I4)
7. Install switch to bezel as shown.
  - i. Using switch tool turn bezel clockwise to tighten.
  - ii. 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.
  - iii. Push button into bezel pressing to engage. (Fig. I5)



Fig. I 1

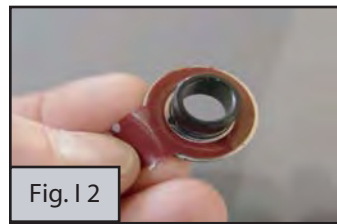


Fig. I 2



Fig. I 3



Fig. I 4

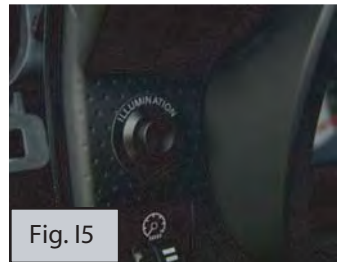
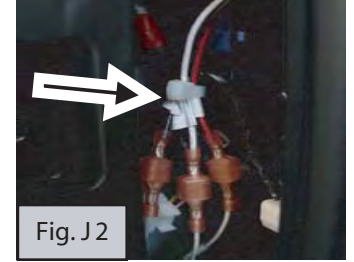
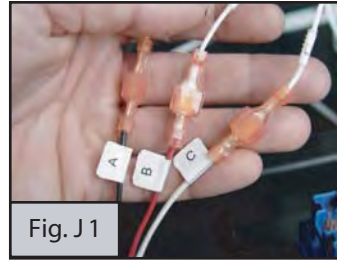


Fig. I 5

J, Connect Switch to Harness

1. Connect switch leads to harness. (Fig. J1)
2. Secure harness as shown using cable ties. (Fig. J 2)
3. Reinstall air vent. (Fig. J3)



K. Reinstall Center Console cover



1. Reinstall center cover, press firmly around edges to seat. (Fig. K1)
2. Reinstall parking brake cover. (Fig. K 2)
3. Turn shift knob clockwise to tighten. (Fig. K3)
4. Turn drive selector clockwise to tighten. (Fig. K4)



## Section II - Installation Procedure

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### L. Post Installation

1. Reinstall interior.
2. Re-attach negative battery terminal, torque to 36 inch pounds. 
- 50 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.

Check:

\_\_\_\_\_

Single Unoperational Module

No Operational Module

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

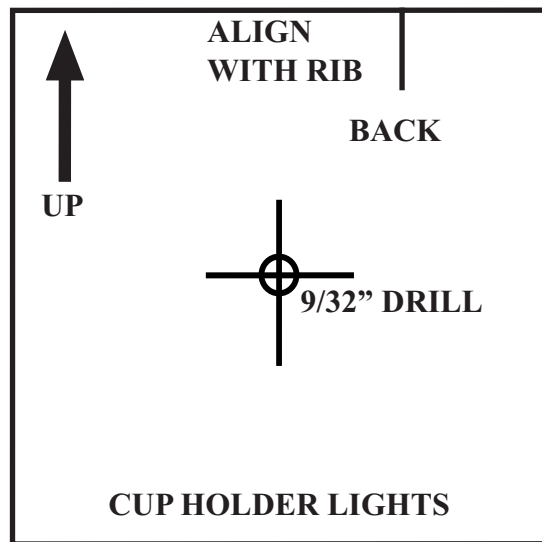
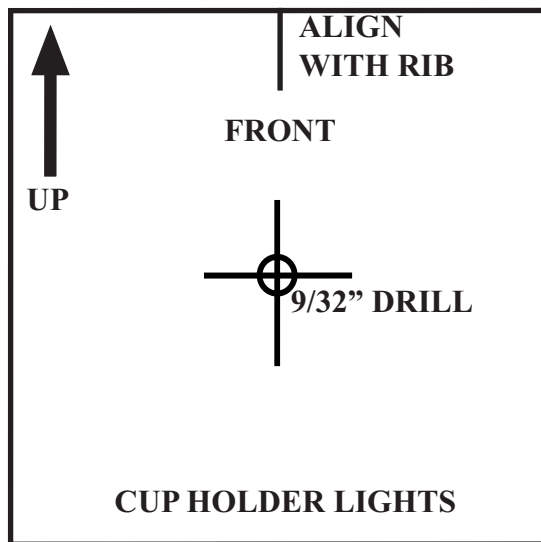
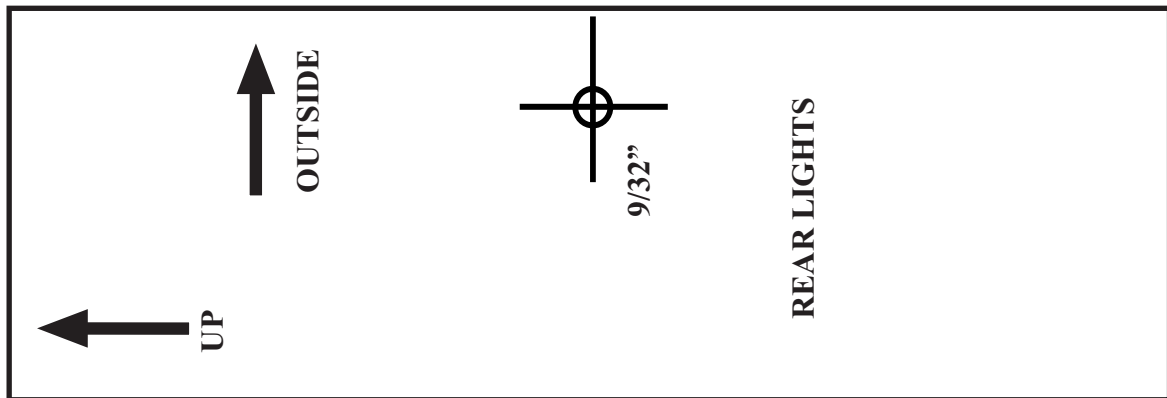
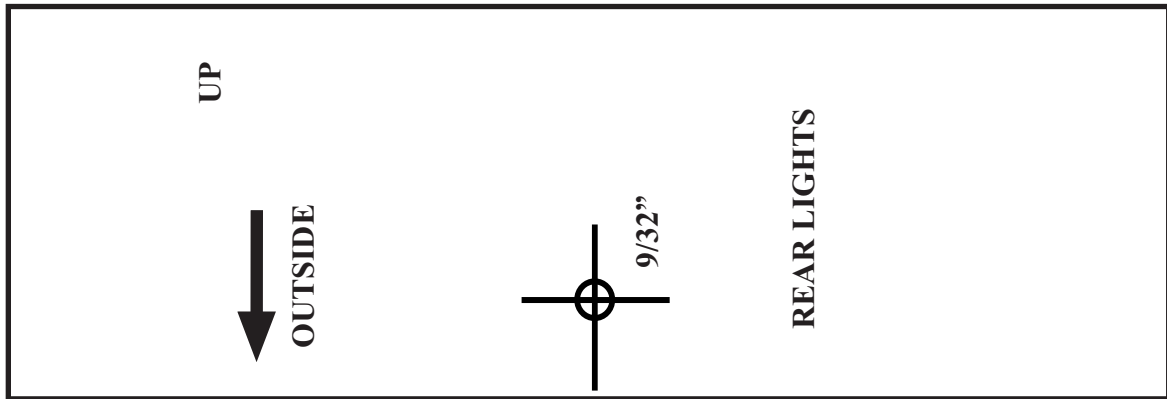
Blown light kit fuse. (2 amp located under center console)

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

**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.

**FJ Cruiser**



**CUP HOLDER LIGHTS**

**CUP HOLDER LIGHTS**