

#FJ0011SC & #FJ0011SB LIGHT BAR TOYOTA FJ CRUISER



Please read and understand these instructions completely before installation to avoid any possible injury to yourself or the vehicle and/or accessory.

PARTS LIST:

<u>ITEM:</u>	<u>PART NAME:</u>	<u>DESCRIPTION:</u>	<u>QTY.</u>
#1	ALLEN HEAD BOLT	SUPPLIED	2
#2	NUTSERT	SUPPLIED	2
#3	ALLEN HEAD SET SCREW	SUPPLIED	2
#4	SELF-TAPPING SCREW	SUPPLIED	1
#5	MAIN WIRE HARNESS	SUPPLIED	1
#6	FUSEABLE LINK	SUPPLIED	1
#7	SHRINK TUBING	SUPPLIED	2
#8	LIGHT BAR CENTER SECTION	SUPPLIED	1
#9	LIGHT BAR END MOUNT	SUPPLIED	2
#10	SWITCH	SUPPLIED	1

TOOLS REQUIRED:

3/16 ALLEN WRENCH. 5/16" DRILL BIT, OR 3/16"-7/8" UNIBIT. 13/16" DRILL BIT. DRILL MOTOR. T20 TORX BIT OR DRIVER. T40 TORX BIT OR DRIVER. 10MM SOCKET. TUBE OF CLEAR SILICONE. ELECTRICAL CONNECTOR CRIMPING TOOL. FLAT HEAD & PHILLIPS HEAD SCREW DRIVER. NON-FLAME HEAT GUN.

NOTE: DISCONNECT NEGATIVE BATTERY CABLE BEFORE BEGINNING INSTALLATION!

INSTALLATION:

1. Using a small flat blade screw driver, remove the bolt head covers on the driver side front and top grab handles. Using a 10mm socket, remove the driver side front and top grab handles.

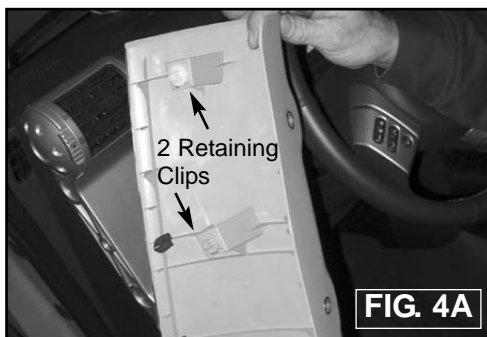
2. Using a Phillips head screw driver, remove driver side visor. On some models, it may be necessary to twist the visor mount 90 degrees counter clockwise to pull the visor mount out.



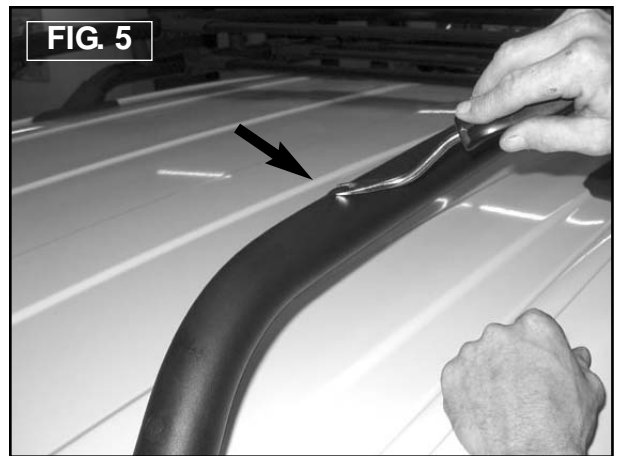
3. Pull down the door weatherstrip as shown.



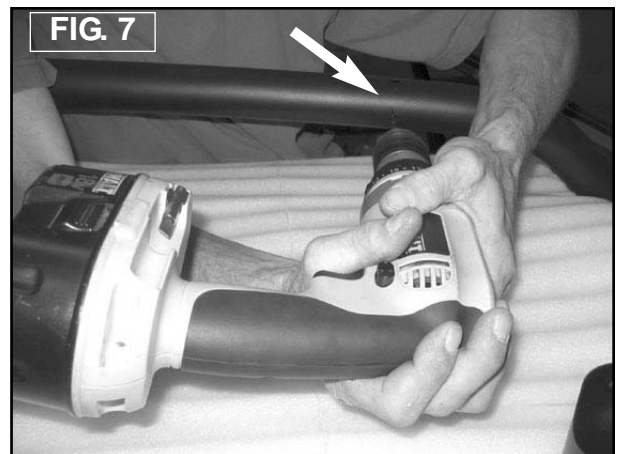
4. Carefully pull back side pillar trim as shown. Use a flat blade screw driver to pop out the two plastic retaining clips inside the pillar trim. **See FIG 4 & 4A.**



5. Remove the top plugs on both the right and left side of the factory roof rack as shown. Once you pry them up, use needle nose pliers to pull them out completely. **See FIG 5.**



6. Line one of the Light Bar End Caps with the top hole that you just removed the plug from. Next, scribe or mark the location of the wiring hole in the side of the roof rack as shown. The wiring from the Light Bar will pass through this hole. Drill hole using a 5/16" drill bit. Using a small round file, debur the hole to remove any burs or sharp edges **See FIG 6 & 7.**



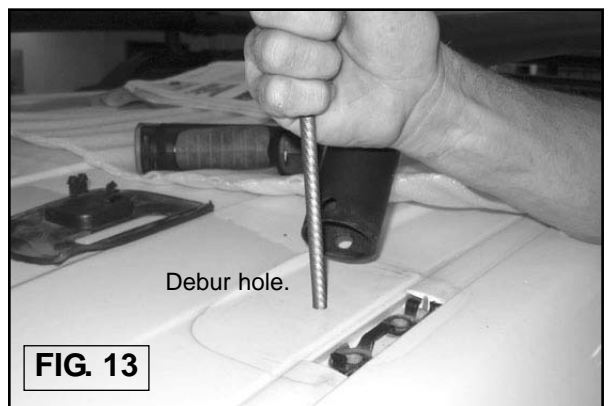
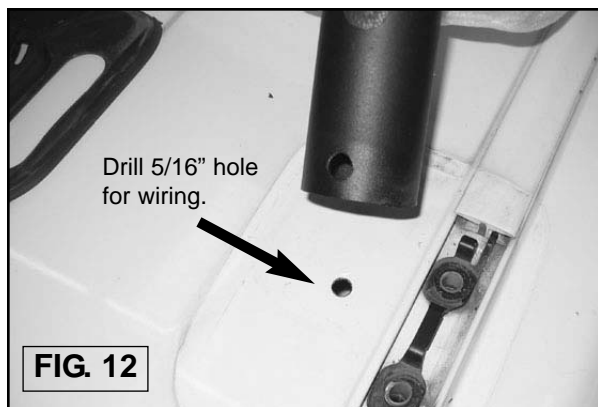
STEP 7. Using a T40 TORX bit, remove the two mounting screws on the front base plate mount. Repeat for the middle base plate mount. Raise front section of roof rack and remove rubber sealing gasket to expose a T20 TORX mounting screw. Remove screw using a T20 TORX bit or driver. **See FIG 8, 9, 10.**



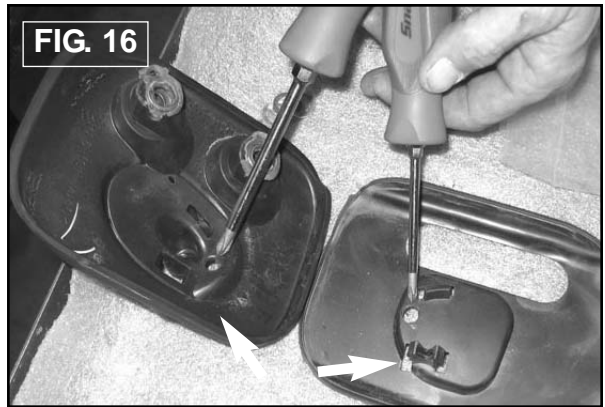
STEP 8. After removing the TORX mounting screw, slide the front base mount off as shown. **See FIG 11.**



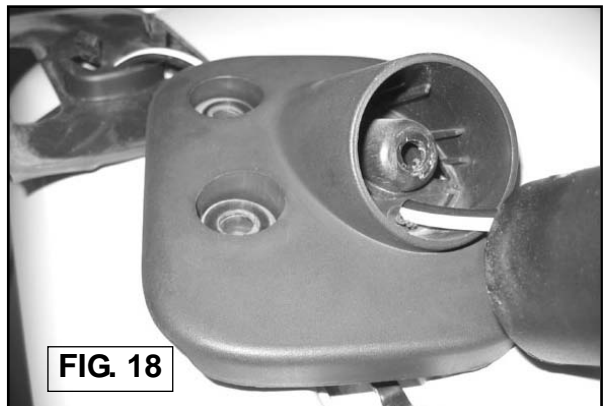
STEP 9. Let the roof rack rest on the center mount and mark the location of the wiring hole in the roof. Drill a 5/16" and file or debur any sharp edges **See FIG 12 & 13.**



STEP 10. Using a 5/16" drill bit, drill one hole in the base plate mount and rubber gasket as shown. The screwdrivers and arrows point to the hole locations. See FIG 14, 15, 16.



STEP 11. Feed the wires through the light bar end mount, the base plate mount and the rubber gasket as shown. See FIG 17 & 18.

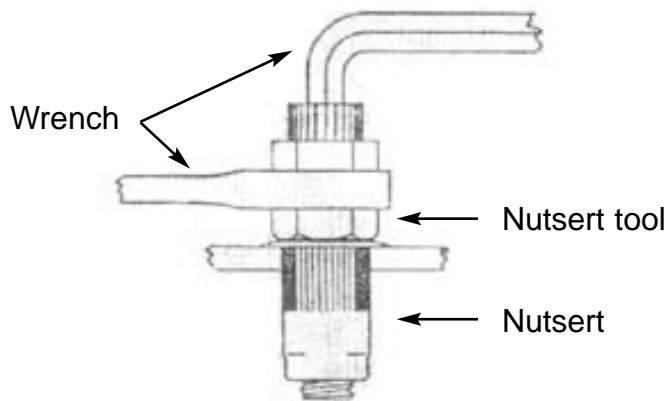


STEP 12. Run wires through hole in roof and down side pillar. **WARNING: INSURE THAT WIRES DO NOT INTERFERE WITH SIDE CURTAIN AIR BAG. WIRES MUST NOT BE ROUTED NEAR SIDE CURTAIN AIR BAG.** See FIG 19.



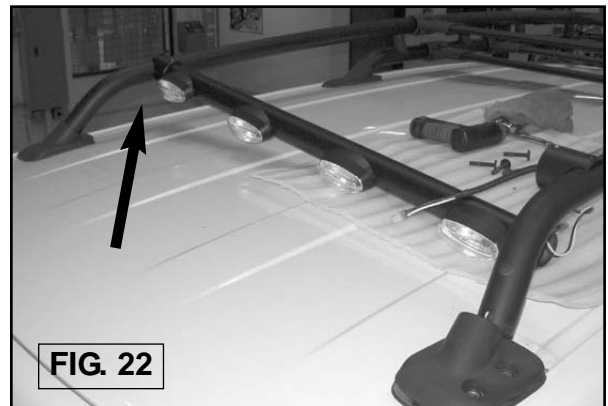
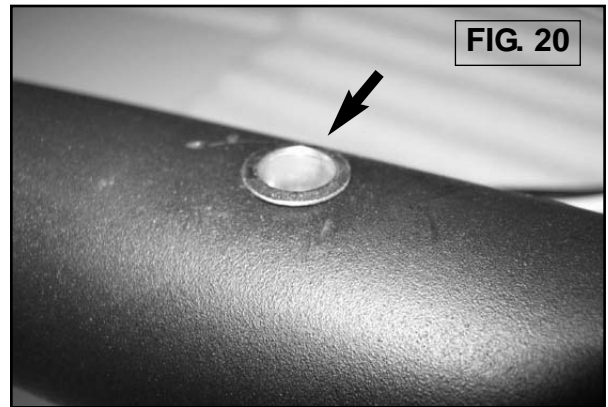
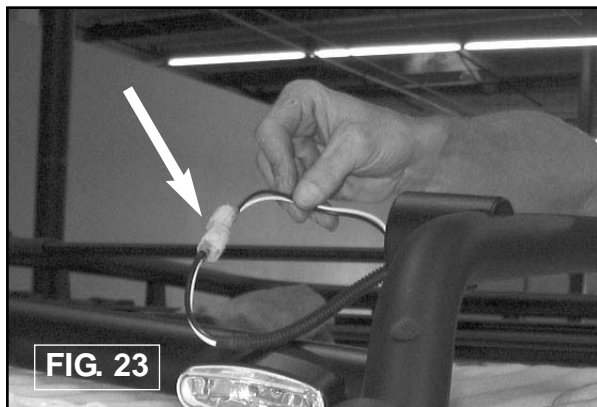
STEP 13. Install one Nutsert on each side of roof rack as shown. The Nutserts install in place of the rubber plugs that were removed. **See FIG 20.**

STEP 14. CRIMP BOTH NUTSERTS: Hold the Nutsert Installation Tool with an open end wrench. Next, tighten the Nutsert Installation Bolt so that it draws up the bottom of the Nutsert inside the roof rack and crimps the Nutsert into place. **See FIG 21.**



STEP 15. Place the remaining Light Bar End Mount on the end of the right (passenger) side of the Light Bar and place the Light Bar on the passenger side of the roof rack. **See FIG 22.**

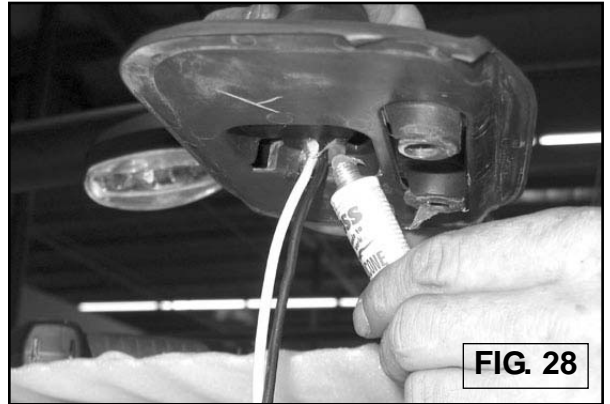
STEP 16. Plug the Light Bar into the wire harness and push excess wire back into Light Bar. **See FIG 23 & 24.**



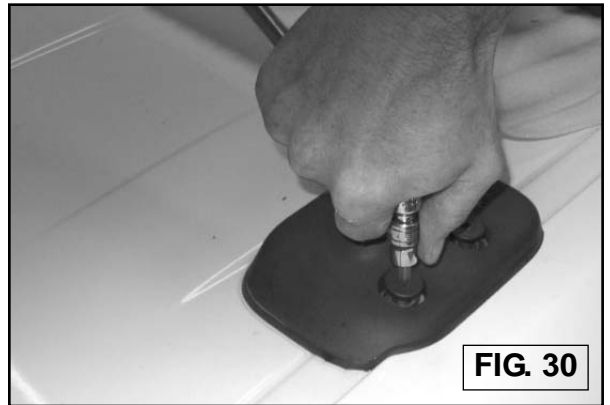
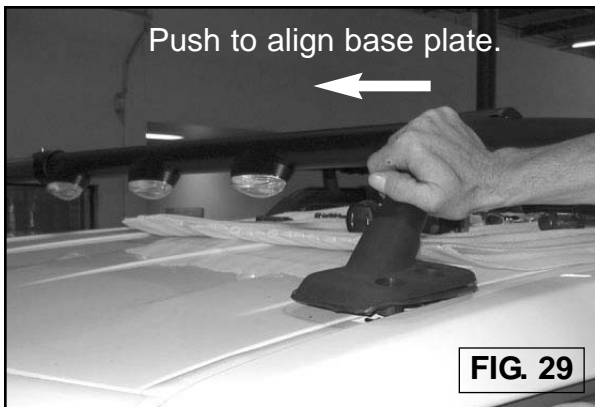
STEP 17. Slide the left side Light Bar End Mount on to the end of the Light Bar. **LOOSELY** Install a Allen Bolt into each Nutsert in the Roof Rack just to hold the Light Bar in place for now. **See FIG 25.**

STEP 18. Re-install the base plate with the T20 TORX screw. See FIG 26.

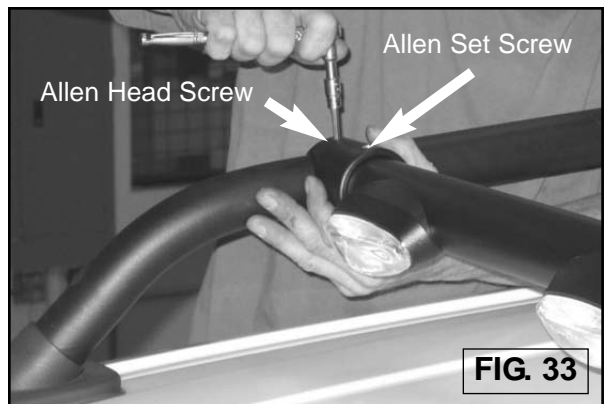
STEP 19. Seal the wiring holes in the roof, base plate, and rubber gasket with clear silicone sealer. See FIG 27 & 28.



STEP 20. Push the roof rack in towards center of roof to align the base plate with the mounting holes and re-install the two T40 mounting bolts in both the front and center mounting plates. See FIG 29 & 30.



STEP 21. Tighten both Allen Head Screw in the Light Bar End Mounts. Insert one allen set screw on each Light Bar Mount, adjust Light Bar to desired angle, and tighten allen set screws. See FIG 33.



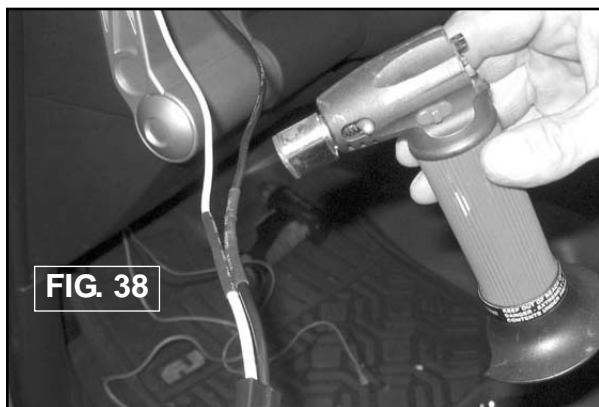
STEP 22. Remove rubber plug in firewall at location indicated by arrow. See FIG 34.

STEP 23. Make a hole in the insulation behind the firewall with a pick and widen the hole with a Phillips screwdriver See FIG 35.

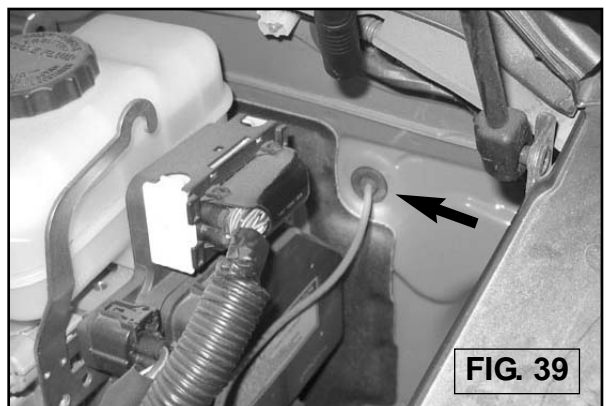
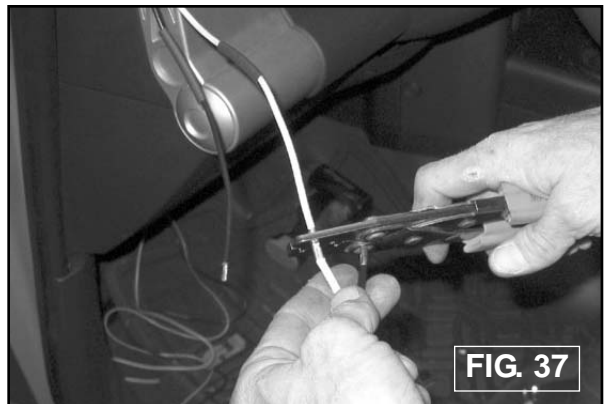
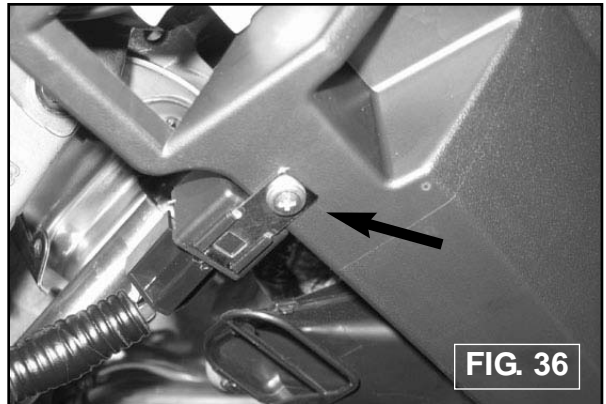
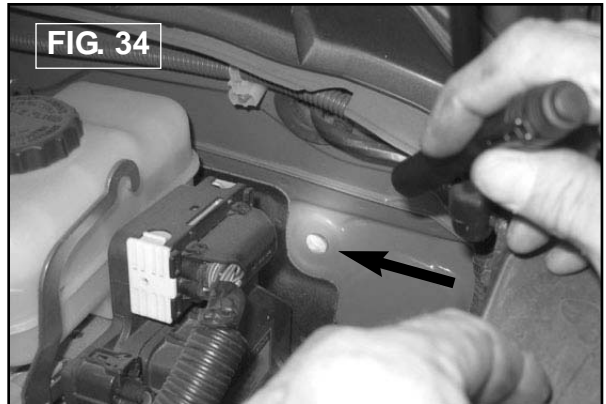


STEP 24. Install the Relay as shown using the self tapping screw.. Connect Black ground wire to a 10mm bolt under the dash. There are 2 to the left of the steering column. Either can be used. See FIG 36.

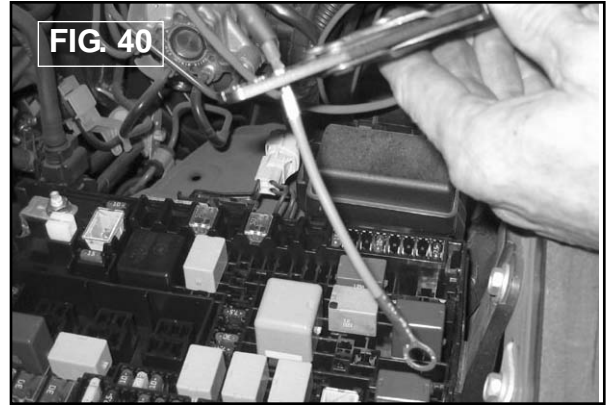
STEP 25. Slide a piece of Shrink Tubing on the black and white wires that lead from the light bar. Using a wire crimping too, crimp the wires from the relay harness plug to the black and white wires from the light bar (Crimp white to white, and black to black). Then shrink the tubing using a heat gun or small flame. Be careful not to melt the insulation on the wires. Next, route these wires down the pillar and under the dash. See FIG 37 & 38.



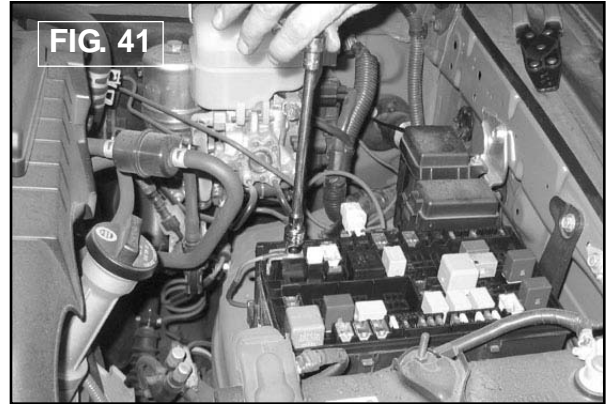
STEP 26. From the inside, run the RED wire from the wiring harness through the hole in the firewall. Make a small hole in the rubber grommet, slide the RED wire through it, and re-install the grommet in the firewall as shown. See FIG 39.



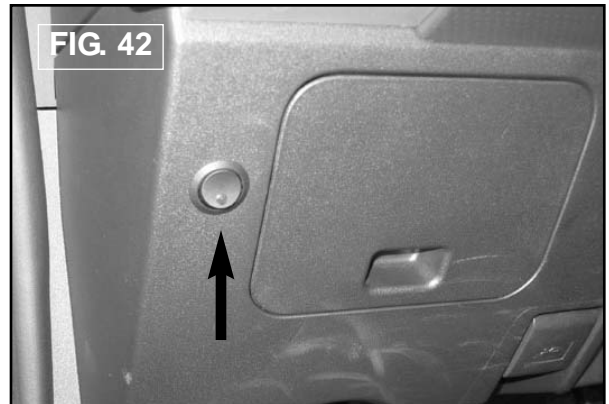
STEP 27. Slide a piece of Shrink Tubing on the Red wire and crimp Red Wire to Fuseable Link. Then shrink the tubing using a heat gun or small flame. Be careful not to melt the insulation on the wires. **See FIG 40.**



STEP 28. Using a 10mm socket, connect loop on the Fuseable Link to the main power lug in the fusebox as shown. **See FIG 41.**



STEP 28. Determine desired location of power switch. We prefer the location shown in **FIG 42.** Access is easy though the removable fuse panel door.



Drill a 13/16" hole and pull the Red, Blue, and Black wire leads through the hole and connect to switch as shown in **FIG 43.** Insert switch into 13/16" hole. Reconnect negative battery cable.

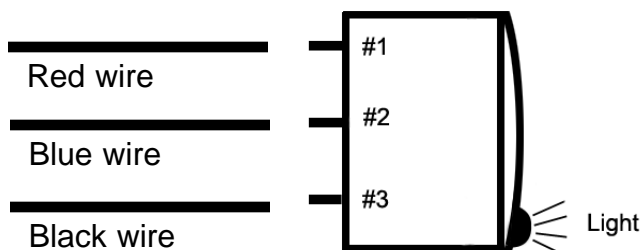


FIG. 43