



LiteSPOTS

Under Chassis lighting installation Document

Off Road Only

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LiteSPOTS are simply a 12 volt LED light, with an embedded magnet for simple stick on mounting to metallic surfaces. There is a hole thru the center and included self-tapping screws for optional screw mount to non-metallic or extra security if desired.

Details

There is a single lead wire that has 2 conductors in it. One wire has a black trace on it, this is the ground wire. The other, non-black trace wire is the 12 volt positive supply wire. Also note, the ground wire itself is silver, the supply wire itself is copper.

Switch

The small light rocker switch included with the Under Chassis LiteSPOTS kit has 3 terminals. The pin out is as follows:

1. 12 volt supply (Outside, opposite the copper)
2. switched output to the light circuit (center)
3. Ground, to operate the light on the switch (copper color terminal)

You may wire the 12 volt supply to nearly any circuit in the vehicle, as these units draw 1/10 of an amp per unit, or 10 of them on one circuit will draw about 1 amp, and most any circuit in the vehicle should be able to handle the draw.

Connecting the supply to a key on circuit will prevent accidentally leaving the lights on after the key is turned off, however, sometimes it is nice to have them on without having the key on, pick your supply circuit accordingly.

Included in the kit is crimp style push on connectors to connect to the switch, and a crimp on ring terminal and self tapping screw, if you need to ground the switch to the vehicle chassis.

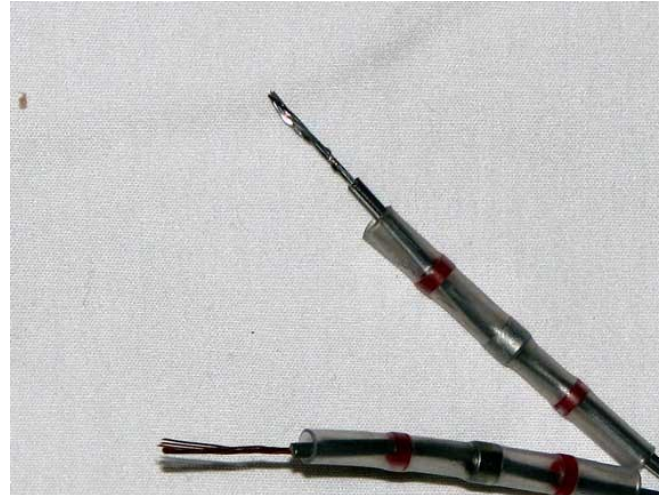
Solder Seal Connectors

There is solder seal connectors included in the kit. These connectors are not only a heat shrink with sealant to seal out moisture, but also have a ring of low temp solder in the center, creating the best possible connection when melted with a high temp heat gun.



Solder Seal, Step One

After separating the 2 wires for about 2" long, strip approximately $\frac{3}{4}$ " of insulation from the wires. Slide a solder seal over each of the wires as shown.



Solder Seal, Step Two

On the mating wires, again separate the 2 wires for about 2" long and strip approximately $\frac{3}{4}$ " of insulation from the wires. Now, connect them by crossing and twisting the wires, past the point shown in the picture.



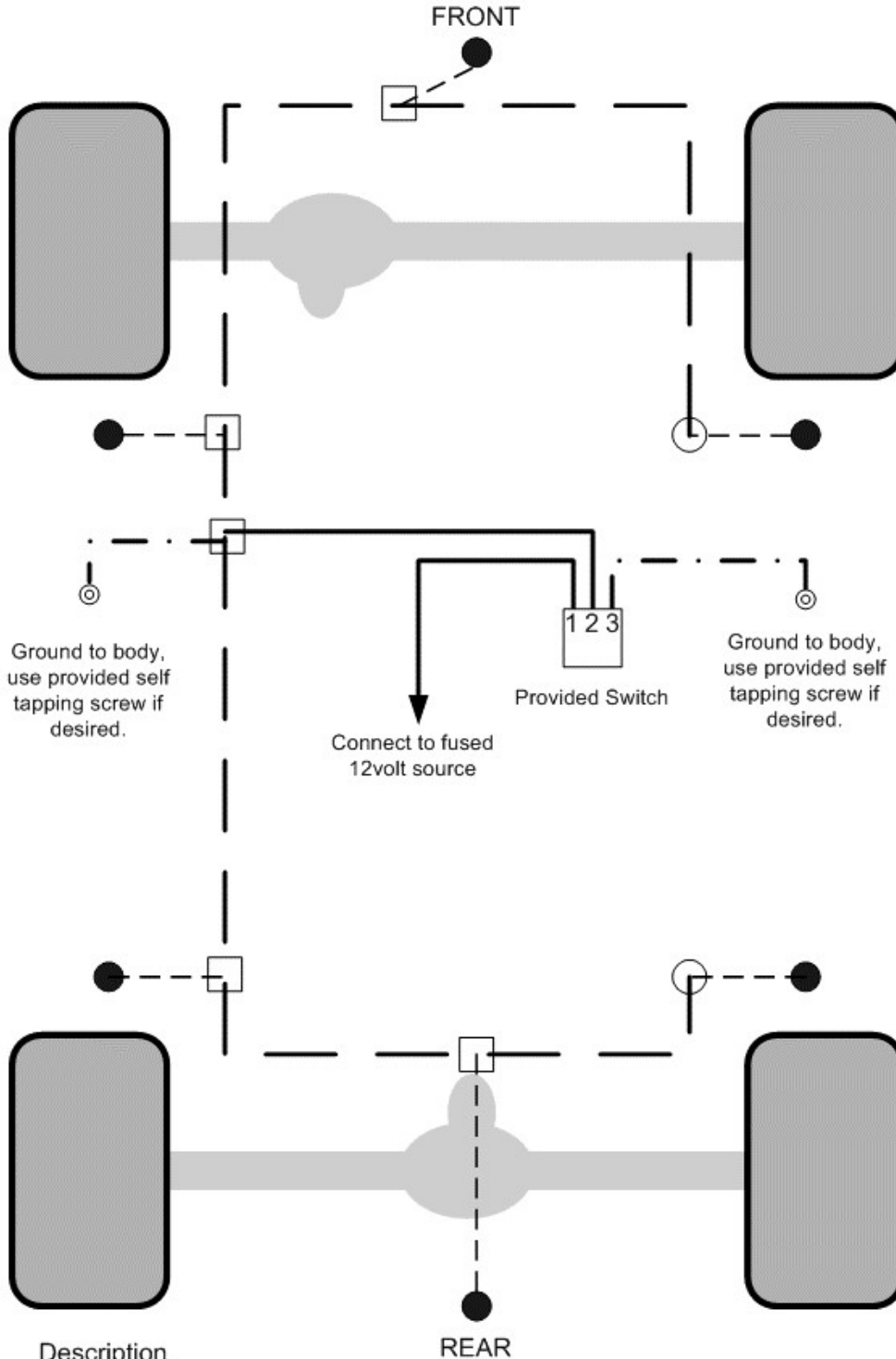
Solder Seal, Step Three

Slide the solder seals over the connection, position the silver (solder) ring in the center of the bare wire splice, and heat with high temp heat gun (open flame not the best, hair drier probably not hot enough.) to shrink the shrink and melt the solder to complete the connection.

Three wire splice

There is a couple points in the harness that will require a third pair of wires to be tied into the connection. Simply perform steps 1 thru 3, and then with the 3rd pair of wires, simply slide those wires into the solder seal, and heat to shrink. In the following diagram, the 2 pair splices are highlighted with a Circle around the junction; the 3 pair splices are highlighted with a square.





- Description
- — 25ft 2 wire harness
 - - - LiteSPOTs lead wires
 - Black 20g supply wire
 - . - Black 20g ground wire
 - 3 Wire splice
 - 2 Wire splice

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Harness routing and schematic