

Off Road Only

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Rock Lites with Dome circuit™

Installation Document

This document designed to aid in installation of a circuit to operate Under chassis lights with operation of dome light

Parts in kit:

- Heat shrunk control circuit with harness
- Crimp connectors
- Switch
- Fuse tap

Tools Needed to install in most applications:

- Small screwdriver or knife
- Wire cutter
- Wire Stripper
- Heat gun (High heat hair dryer may work)

Additional supplies possibly required:

- 4-8 foot of small gauge (20-24) insulated wire, determined by where the switch is mounted.



Wiring color code:

On the control circuit, the wiring is color coded as follows:

Black	Ground, connect to dash structure
Gray	Signal wire, connect this to a circuit that turns on when the dome light is engaged
Red	This wire should go to a fused (10 amp) circuit, its long enough to go to the Tpm module
Yellow	Control circuit number 1 (connect to switched side of rock light circuit)
Green	Control circuit number 2 (optional, designed for interior lights)

The idea here is to insert this control circuit between the factory dome light circuit and the option lights you wish to control via the dome light. The control circuit is powered from a separate fused circuit and will not tax the vehicles dome light circuit more than the few milliamps to engage the relay. We have designed this circuit to match what we have found to be very functional on our Jeeps. Our application has a set of LiteSPOTs under chassis lights as well as a set of LiteSPOTs used inside the Jeep in the footwells, front and rear, to provide additional light inside the vehicle. This circuit will be added between the switches you have installed to control those circuits and the dome light circuit. When this is wired as we describe, the unlocking of a door or turning on the dome light from the turn signal switch will illuminate the other lights as well.

The process to do this is pretty simple. Install and wire the lights you wish to control. Mount the switch inside the Jeep as you wish to control those lights. Then before you completely wire the switch, specifically the output to the lights from the switch, simply connect the yellow or green wires (just 1 per circuit) into that connection. This way, when the control circuit is engaged, it will provide power directly to that circuit, without the switch. Do this for the second set of lights and connect to the other yellow or green wire.

The black wire on the control circuit will need to be mounted to the dash structure, or any other good chassis ground for the circuit to work. The Red wire needs to be run directly to a 12 volt power source. If you have a fused lead inside the vehicle, tie to that. We have left this wire long enough to pass thru the firewall and go directly to the Tipm module, the fuse box ahead of the battery on the JK. We have supplied a fuse tap and connector to tie this into a circuit inside the Tipm fuse box, as shown in the following image. This circuit is for the trailer lights and is energized all times, connect to the side as shown (far side of fuse as shown in this image) in the following image.



The last wire is the gray wire. This the one that needs to be tied to the positive side of the dome light circuit. Some JK's have a small LED light in the foot well, you can dissect this light and tie into the power side of this circuit. If your Jeep doesn't have this factory foot well lighting, you will need to remove the instrument cluster to find the dome light control circuit to tie this gray wire to.

If your JK is equipped with the foot well lights (most 2013 and newer models) then remove that light assembly in the drivers foot well and locate the yellow wire with the white trace. This is the wire that should be 12V positive once the dome light circuit is activated. Simply tie the gray wire to this yellow with white trace, and this will turn the relay on when the dome light circuit is activated.

If your JK does not have the foot well lights, then the yellow with white trace wire you need to find is easiest found at the plug on the bottom of the instrument cluster. Removal of the instrument cluster is not hard, most panels are snap together parts. If you are familiar with this process, remove it. We need access to a yellow wire with white trace that is in the plug to the instrument cluster.

If you are not familiar with the process, easiest way to do to learn how to remove them is by watching Youtube videos. Search for your year of JK and "removing instrument cluster" and you will get some videos, some good, some bad.

Once you get access to the yellow wire, simply tie the gray wire to the yellow with white trace. This is the circuit that energizes the dome lights. When you tie the gray wire into it and have the black wire on the control circuit grounded, this will now turn on the relay, which will turn on the yellow and green wires to power up 2 external light circuits (designed for one inside and one outside)

The when the computer turns off the interior light, it pulses the circuit to zero volts, as a way to dim the lights. This pulsing will be sensed by the relay, as it is very quick to react. Due to this pulsing, you will hear a buzzing as the dome lights go out. This is how the circuit is designed to operate.