

# RECON

## RECON 3-Piece Cab Roof Light Installation

Test Vehicle: (2003 Chevrolet/GMC 2500HD)

This document covers the installation of RECON Truck Accessories 3-Piece running lights on a 2003 Chevrolet/GMC Silverado/Sierra 2500 HD

### RECON 3-piece Chevy/GMC Cab Roof Light Kit Boasts The Following:

- Meets S.A.E. specifications
- Adapts to Curved and Flat Roofs
- Kit includes 2 Corner Clearance Lights and 1 Middle Lamp Cluster Center Marker Light
- Great Retail-Friendly Packaging
- All Necessary Hardware

The light kit comes with everything required to install, except it is also recommended that you apply a little silicone/sealant to ensure a lasting seal around the holes & wires.

### Overview

The installation takes approximately 2 to 3 hours and can be broken down into 5 main steps:

1. Drop front part of headliner
2. Measure/Mark holes for lights
3. Mount Lights
4. Wire Lights
5. Re-assembly

### Drop Headliner

- Remove sun visor assemblies and sun visor clamp (Torx 15 & 20 required)
- Disengage passenger side grab handle. Insert small flat screwdriver to pull out covers/lock mechanism then pull out on handle until you feel it disengage. There is no need to remove handle from headliner.
- Disengage DS and PS pillar covers. Pull out at top and away from pillar. Lower panel(s) down so you can drop headliner about 4-6".



- Remove overhead console. Remove front screw. Slide console forward a little and pull down in rear as is a clamp on each side that locks it into the overhead.
- Disconnect On-Star speaker plug (if equipped) and map light plug. Remove console.

At this point you should be able to pull the front part of the headliner down around the front of the windshield. It will only drop about 2" to 3" which should be enough to carefully reach the wires.

## Mount Lights

The side marker lights require 2 holes and the center light 5 holes IIRC. Take your time and measure everything twice to make sure you don't drill any extra holes. You only have one chance.

### Side lights:

- On driver and passenger side, it is 4 1/4 inches from near edge of black rubber door rubber gasket to the near edge (side) of the roof marker lamp gasket
- 4 1/8" from near edge of black rubber windshield gasket to front edge of the roof marker lamp gasket

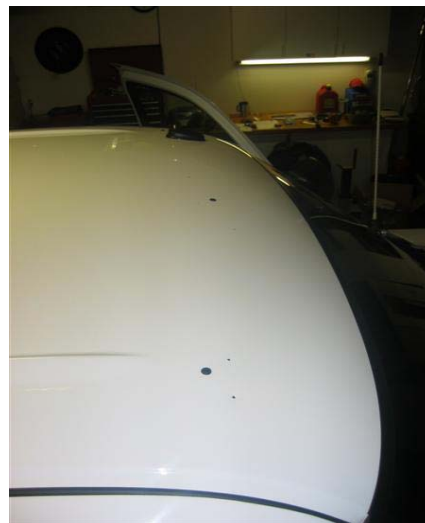
### Center Light:

- 3 1/8 from near edge of black rubber windshield gasket to near edge of the center roof marker lamp gasket. Make sure you measure across to find center of roof and center light accordingly. IIRC, center is around 27 3/4" measuring of the windshield top corner moldings.

Place the lights at the approximate locations and place masking tape on roof so you can mark/drill without damaging the paint. It's best to start with the center light so you're not leaning over the outside lights during the installation process.

Measure all lights and mark holes. Once the lights are in place and measured, use a sharp tipped round scribe to mark the holes as you will need to place it down thru the light holes which are about 1" tall. This made marks on my tape which are visible once the lights are removed.

The screw holes require a 7/64" drill bit. Drill all holes starting with the center light first. When done you should have something that looks like the following image on the left:



You will also need holes for the wires. Many people opt to install one rubber grommet per light and routed both wires thru the grommet. The grommets have a slot diameter of 5/16" therefore you drill one 5/16" hole for each light and insert a rubber grommet. Some folks simply drill a small hole and insert the wires directly thru the roof and silicone wires. That works as well but we don't like the idea of the possibility of a shorted wire down the road so we suggest going the grommet route. Once the wire holes are drilled, remove the tape and insert the grommets and your roof should look like the image above on the right.

## Mount Lights

Each of the RECON cab lights have a 6" hot lead and a short 3" ground lead with a loop. You may chose one of two options for the wiring of the lights. Option 1: Simply mount ground with one of the light wires. We have found that many people prefer Option 2 which is to run hot and ground wires to the PS fuse panel where you tap for power/ground. First cut off the ground loop and add more wire to the hot and ground so you can coil some extra wire up on the base of each light for the time when you need to change a light bulb. The extra wire will provide enough free play to change out the bulb without pulling the wires from inside the cab thru the grommet(s). Also confirm that you have at least 1' of extra wire inside the cab for each light so you can easily attach the wires to main power/ground wires that will run from the driver's side across to the passenger side and down the PS pillar to the fuse panel.



Feed the wires thru the roof and mount lights. Before screwing in the lights, dab the screw threads in silicone to help seal the holes. The extra silicone works its way up the screw holes to the screw head providing a good seal around the head as well. Tighten each light gently, do not over tighten the lights or you may break a lens, strip the holes, etc. It's pretty easy to tell when the light starts to snug down on the gasket/roof. Make sure the lenses are seated correctly in the gaskets. If you tighten too much the gasket may start lifting up on the hood. Just use common sense here and you'll be fine.

Note: There are black plastic 'T's' that come with the lights. The "T's" install in the screw holes from the bottom of the light. They help stabilize the screws. Be sure to use them.

## Wire Lights

Start by creating a 2-wire harness that will run across the cab from the drivers side to the passenger's side then down the PS pillar to the fuse box. Tap the wires together every foot or so just to keep them together and reduce the chance of rattles, etc. You may want to duct tape the wires to the roof to keep them from bouncing around between the headliner and roof.

Run the 2-wire harness between the headliner and roof from the hole in the headliner where the console attaches to the driver's side door/pillar area then run the rest of the harness from overhead console to the PS side.

Connect the driver's side marker light using the included splice connectors. You may need to pull down the headliner with one hand while you reach up and grab the wires connected to the light.

Connect the center light to the wire harness using splice connectors. Tie-wrap the wires to the existing harness and or duct tape the wires to the roof. Connect the PS cab light to the harness again tie-wrapping in place and or using duct tape.



Route the harness down the PS pillar and thru the opening at the corner of the pillar. Some find it's easiest to route mechanic's wire first then use the wire to pull the wire harness down underneath the glove box right behind the connector panel.

Install the fused lead that comes included with the kit to the hot wire and attach a female connector to the ground wire.

Make sure you connect the power/ground wires correctly in the PS panel. Test each with a test light first. Most newer Chevy/GMC's 03's have 3 spades. The bottom most spade is ground and the middle is the marker lamp circuit.

Attach power and ground wires and test lights. Once the test proves a success, you're ready to begin re-assembly.

## **Re-Assembly**

Simply re-install everything you removed earlier when dropping the headliner.

1. Install the PS grab handle
2. Re-install DS and PS pillars
3. Re-install both sun visors (Torx 15 and 20)
4. Reinstall center console.