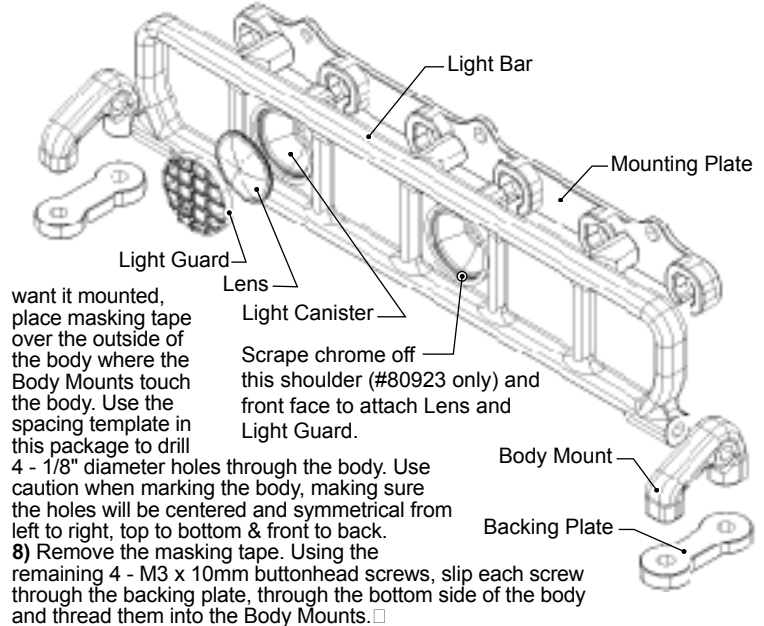


## #80922, #80923 & #80925 - Roof Mount Light Set

**Package Contents:** 1 - Light Bar □ 1 - Mounting Plate □ 2 - Body Mounts □  
 □ □ 2 - Backing Plates □ 6 - Light Canisters □ 6 - Lenses □  
 □ □ 6 - Light Guards □ 1 - Mounting Hole Drill Template □  
 □ □ 6 - M3 x 8mm Flathead Screws □  
 □ □ 7 - M3 x 10mm Buttonhead Screws □  
 □ □ 2 - M3 x 16mm Buttonhead Screws (hinge screws) □

### Installation:

- Carefully clip all parts from their respective parts trees.
- (#80923 - chrome only) If you intend to install the Lenses, scrape the chrome off of the inside shoulder of each canister as noted in the illustration. If the Light Guards will be used, sand the front surface of each canister with 600 grit sand paper until the chrome is gone. Scrape the chrome off of the back edge of the Light Guards as well, using caution not to remove the alignment shoulders.
- If you intend to install LED lights, slip a 3mm LED into the center hole **from the back** of each canister **before** screwing the canisters to the mounting plate (review the LED instructions on the back of this instruction sheet for important details). Using the 6 - M3 x 8mm flathead screws, screw the six canisters to the mounting plate until snug. Orient the canisters with the mounting posts toward the top of the light bar. **Caution:** Do not over-tighten the screws!
- You have the option of running the canisters as is - no lenses or guards, with or without the lenses and with or without the guards. If you wish to use the lenses, use either model cement or a pliable silicone glue (preferred) and place a small amount of adhesive on the shoulder of the canister then press the lens onto that shoulder fully (the lens must rest on the shoulder fully otherwise the guard won't seat properly). Be extremely cautious with the lenses. They can crack if too much pressure is applied. If you wish to use the guards, place a small amount of adhesive on the front face of the canister and press the guard in place, using caution to orient the guard any way you prefer before the glue sets up. Allow the adhesive to cure fully before proceeding.
- Using 3 - M3 x 10mm buttonhead screws, attach the Mounting Plate to the Light Bar.
- There are a couple of options available depending upon where you intend to mount the light bar. The longer leg can be mounted in either direction (up or down - down is shown in the illustration). Once you determine how you want the Body Mounts to sit, use the 2 - M3 x 16mm buttonhead screws to attach the Body Mounts to the Light Bar. Leave these hinge screws slightly snug for now.
- The **RPM** Roof Mount Light Set can be mounted almost anywhere on the truck. However, mounting the light set on top of the body will be most susceptible to damage. We recommend attaching the light set to either the front or rear window. Mounted in this fashion, there is a lower probability of damage due to the collapsible design of the lights. Once you've located the place you



- want it mounted, place masking tape over the outside of the body where the Body Mounts touch the body. Use the spacing template in this package to drill 4 - 1/8" diameter holes through the body. Use caution when marking the body, making sure the holes will be centered and symmetrical from left to right, top to bottom & front to back.
- Remove the masking tape. Using the remaining 4 - M3 x 10mm buttonhead screws, slip each screw through the backing plate, through the bottom side of the body and thread them into the Body Mounts. □

- Notice how the light set is free moving at the hinge screws. Orient the lights to the position of your liking and tighten the hinge screws just enough so the light bar will collapse in a crash but will stay fixed in place while driving. This hinging feature greatly improves the Light Set's chances of survival during a crash. □

**Warranty Notes:** Due to the scale appearance of this light mount and canister set, we cannot properly strengthen all aspects of the lights. Therefore, the following limitations on our warranty apply. The lenses and guards are not covered against breakage. The light bar and body mounts have a limited warranty against breakage that *does not cover damage from roll-over crashes*. All other items still retain normal **RPM** warranty protection when installed according to these instructions. Normal material and workmanship coverage is still applicable to **all RPM molded products**, subject to **RPM** final approval.

## How to Install LED's in the RPM Roof Light Set

### What's Needed:

- 6 - 3mm LED Lights
- 6 - 1/4W 150 ohm Resistors
- 1 - On / Off Switch
- 1 - Wire Connector (see instructions)
- 1 - Receiver Plug
- 22 AWG Wire or similar

1) Our numbers throughout this installation are based on **3mm LED lights** with the following specifications:

**3.2Vf @ 20mA w/ 3200 mcd.** We used Linrose Super Bright White LED's with PN - **BCMD204UWC**. We used NTE 1/4W 150 ohm resistors with PN - **QW115** as well.

2) Our ON / OFF switch, wire connector and receiver plug were taken from an old transmitter but you can find inexpensive options at your local hobby shop. Make sure your receiver plug is designed to fit your model receiver. The illustration to the right is based on a stock Traxxas receiver.

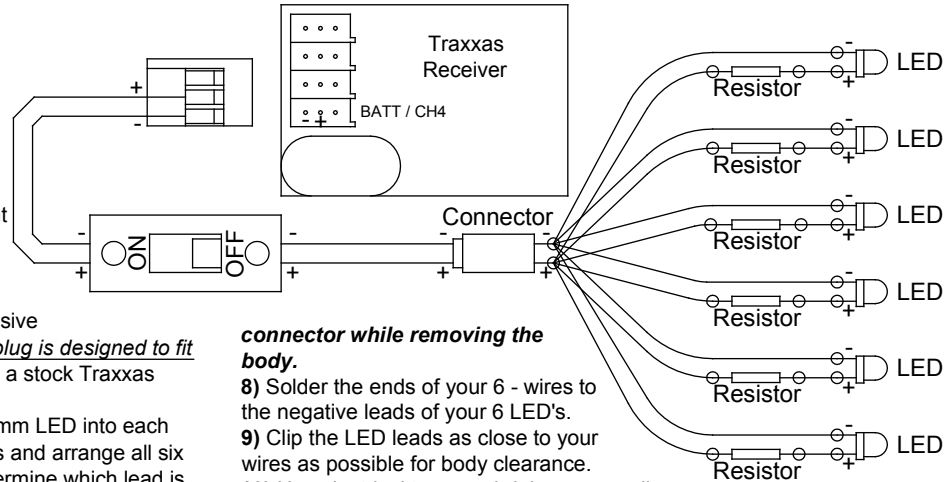
3) At Step #3 on the reverse side, you are asked to slip a 3mm LED into each canister. Be sure to check the polarity of each of your LED's and arrange all six in the canisters identically. Review the LED package to determine which lead is positive and which is negative. Once that's complete, finish the installation of the roof light set **and come back to this point when it's finished.**

4) Find a place for your ON / OFF switch on the chassis of the vehicle. We chose to mount ours on top of the receiver box for easy access. We used double-sided servo tape to keep it in place.

5) Run the + wire of the switch to the + wire of the receiver plug then run the - wire of the switch to the - wire of the receiver plug. **Caution: Check and double-check the polarity of the receiver plug's orientation. Crossing the polarity of the wires can destroy your receiver.** The receiver plug will press into the **BATT / CH4** slot of the receiver.

6) Install a connector of your choice after the switch to allow the LED's (and the body) to be removed without removing the switch and receiver wires.

7) At this point, you will need to solder 6 wires together to split both the + & - wires exiting the connector, giving you 12 wires (six positive & six negative), making sure the - wires can reach the LEDs. On each of the 6 + wires, solder one of your resistors, then solder enough wire to the other end of the resistor to reach the LEDs (See "Tips" below). **Don't forget to leave slack to access the**



**connector while removing the body.**

8) Solder the ends of your 6 - wires to the negative leads of your 6 LED's.

9) Clip the LED leads as close to your wires as possible for body clearance.

10) Use electrical tape or shrink-wrap on all exposed connections. You may want to use shrink-wrap or electrical tape around all of the wires where they transition through the body as well. Also, an **RPM** body saver washer (**#80332** - black or **#80341** - dyeable white) in this location would be great at saving the wires from damage due to sharp edges.

11) Plug in a battery and test the lights. If something isn't working, the first place to look is the polarity of the LED's. Polarity is the main source of problems. Don't forget to recheck your wires' polarity too.

**TIPS:** a) Solder the resistors as close as you can to the LED's (but far enough away so the body doesn't rub on them, then try to keep the 12 positive & negative LED wires as short as possible before merging them into the connector listed in Step #6. This will keep excess wire to a minimum. b) Try twisting each pair of LED wires together. This makes them easier to route and less likely to flop around while driving. c) If you'd like to run a separate 9V battery instead of running the lights through the BEC circuit off of the main battery pack, simply replace each resistor with a 330 ohm version and replace the receiver connector with a 9V connector.