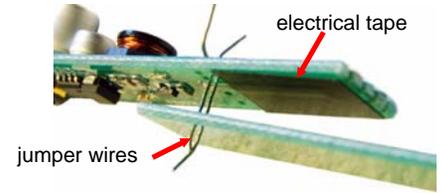


RL-LED installation in Athearn HO Heavyweights

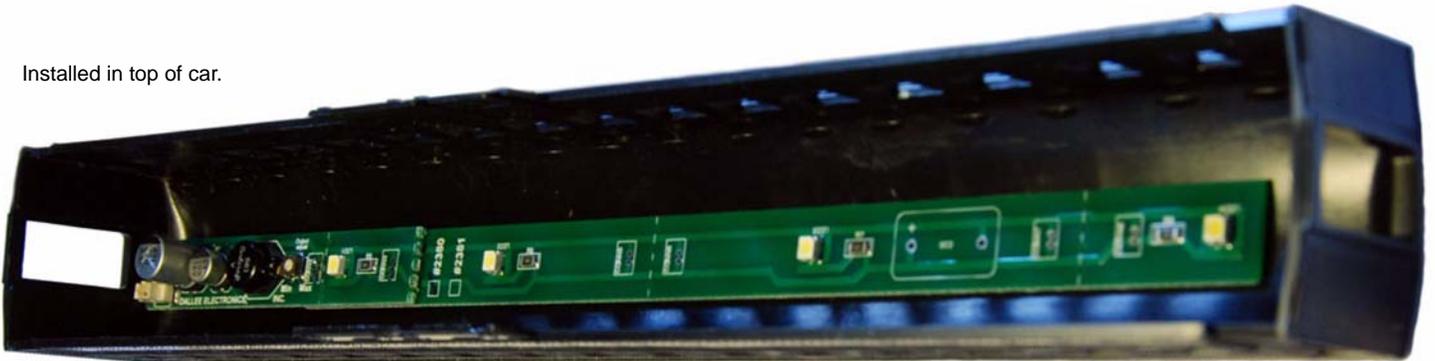
For the coach, we elected to break the board near the regulator, just after LED1. Put a small piece of electrical tape over the top part, bottom side as shown and place small jumper wires into the connector holes (CONN2 and CONN4). Be sure to use the correct holes when placing the jumper wires into CONN2 (they will align with CONN4). Push the boards together and carefully solder the top and bottom boards. This makes one long board with 4 led's. You can also elect to do this same sort of method at other board locations as well.

This was then installed into the roof of the car with the supplied double sided tape. The power wires were routed down the one end and connected to the truck pickup's. You can use either type of board for these. Lighting colors can change hue with a diffuser paper placed inside the windows, the color will shift to a warm white shade.

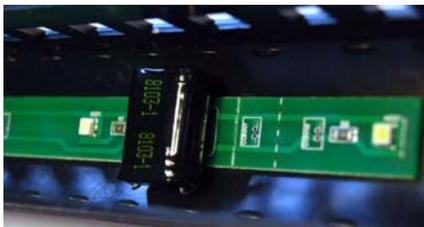


Shortened Board from regulator side.

Installed in top of car.



A different easier board shortening can also be done as shown in the observation. Here the board was cut leaving the last LED4 off of the board. This can be saved for use in another installation or added elsewhere to this board. Be sure to keep the polarity correct when adding it to the board elsewhere.



In some installations, a "super capacitor", item 559, may be desired. This will insure that the lighting isn't disturbed by large intermittent wheel pickup. Since the windows aren't to be blocked, the super capacitor was mounted 90 degrees from the normal mounting using SC2 pads. Be sure to insert the proper polarity of the super capacitor to the board. The "+" lead is marked on the board while a stripe on the super capacitor indicates the "-" lead.

If you need electrical pickups for your car, Walthers offers a full line of trucks with electrical pickups. When using the Athearn wipers, it's best to place a 2x56 nut on the bottom part so that the wiper stays secure to the screw and thus makes a better pickup. The older Athearn wipers do not have a very pliable beryllium copper wiper.