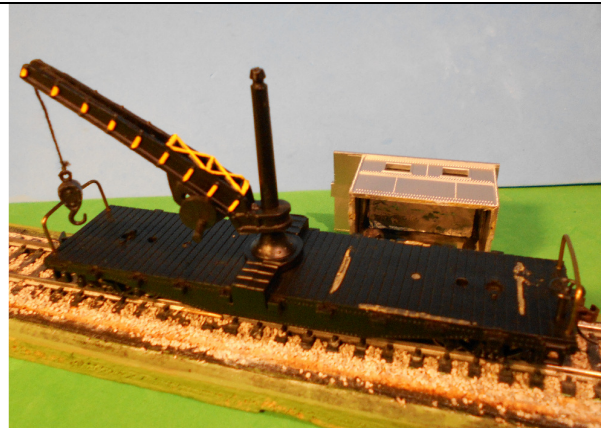


## Adding Lighting to a HO Utility Car

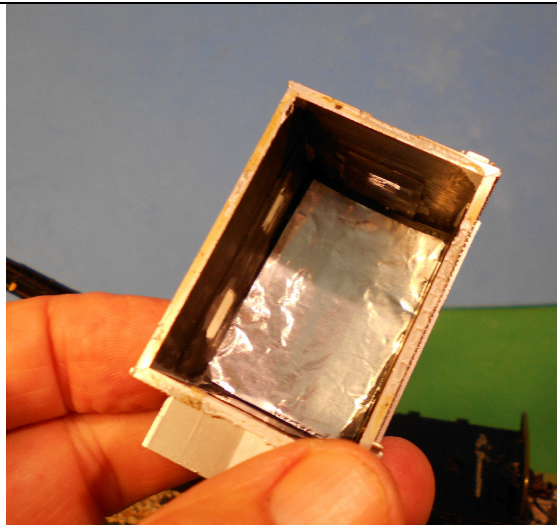
The [modeltrainsounds.com](http://modeltrainsounds.com) HO scale caboose light kit can also be used to add LED lighting to other utility and work cars used on the railroad . In this case lights were added to a 40' Work Caboose with crane from Model Power. #8190. This photo montage explains the steps.



Model Power HO Scale Work Crane



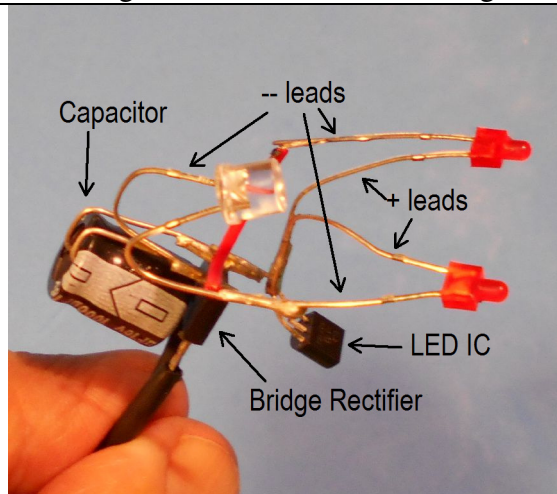
The cab was glued to the flatbed and separated with a blade.



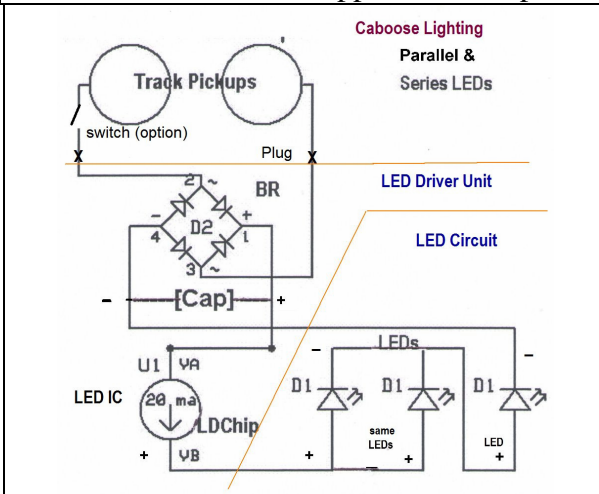
The interior was blackened and aluminum foil was glued to the roof to reflect light.



Two holes were drilled in the rear wall with a 5/64" drill bit and set approx 1 1/4" apart.

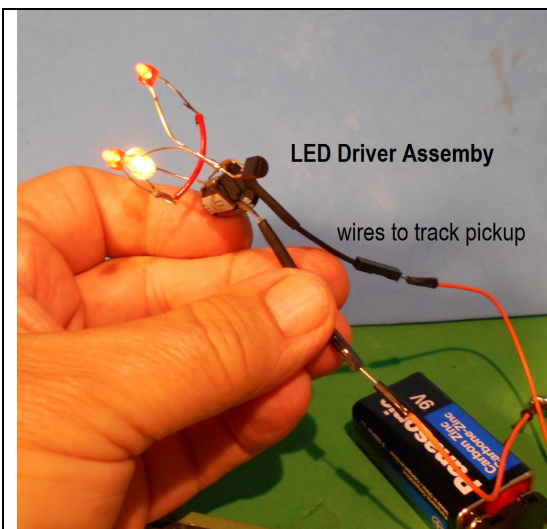


The circuit was assembled as described for the HO Scale Caboose . (see Project 5 )

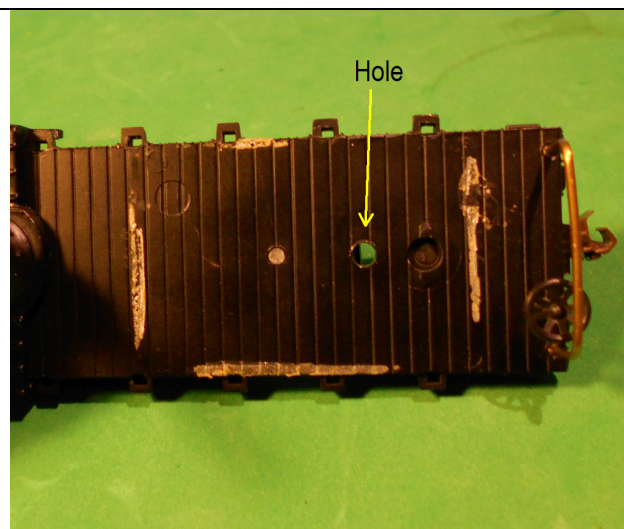


The circuit includes two 2mm red LEDs set in parallel and a 5mm White LED in series

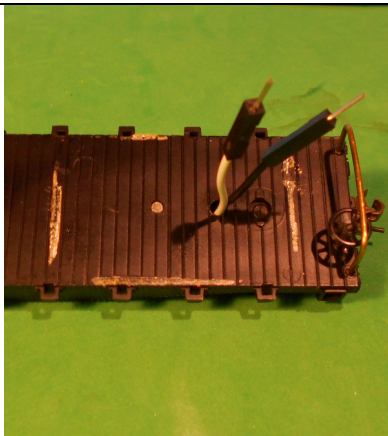




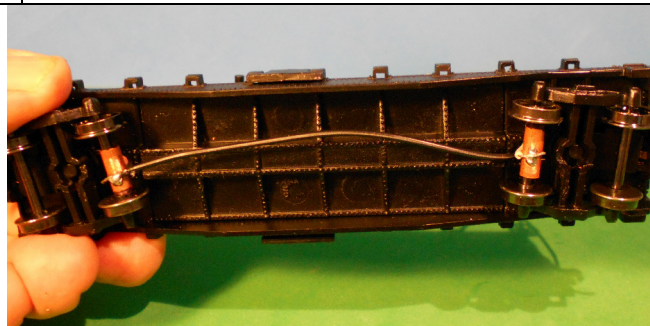
The circuit was tested by connecting the wires for track pickup to a 9V battery



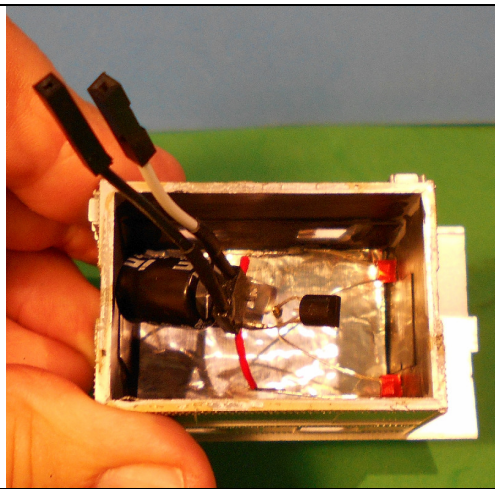
A hole in the floor of the cabin was widened to 1/8" diameter



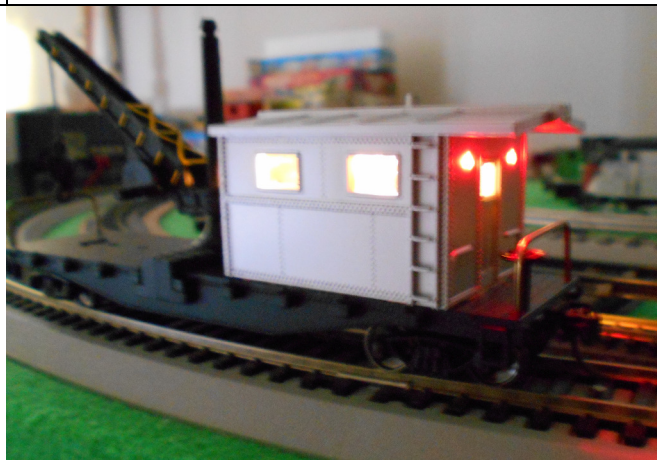
Male pickup wires were threaded through the hole in the cabin floor.



The pickup wires were soldered to the copper collars set on the metal wheel axles on 2 trucks



The 2mm red LEDs are glued into the holes. The track wire plugs were connected the LED driver unit



The cab was reattached to the flatcar, glued in place and the car was ready for the track. The car lights at around 6 volts DC.