

MAC-859

RCL Stand (Large) and
Antenna Kit

MACRAIL

Distinctive details that enhance your modeling



Thank you purchasing our MAC-859. This kit brings to your railroad an all-too-common prototype detail found on Class 1 yard locomotives. These instructions will walk you through the building and installation of this detail. Each kit contains enough parts to complete (2) locomotive models. To maximize your time, the RCL stand is painted in aluminum and the RCL antenna box and conduit box are painted primer gray.

Our kits are designed to minimize benchwork time while providing a prototype look. Enjoy the build!

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STEP 1 – OPENING YOUR KIT

When opening your kit, you will find the following parts:

- (4) RCL Stands (Large)
- (5) RCL antenna boxes
- (4) Pieces of .015” wire for conduit
- (1) Custom decal set
- (1) Bag of horse hair bristles for fine scale antenna
- (3) Conduit boxes

If you are missing anything – please send an email to macrailllc@gmail.com

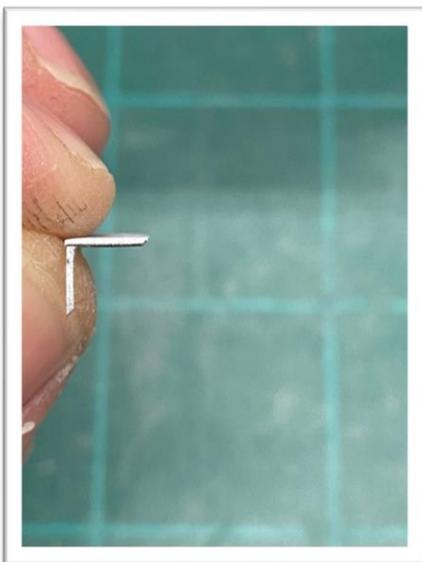
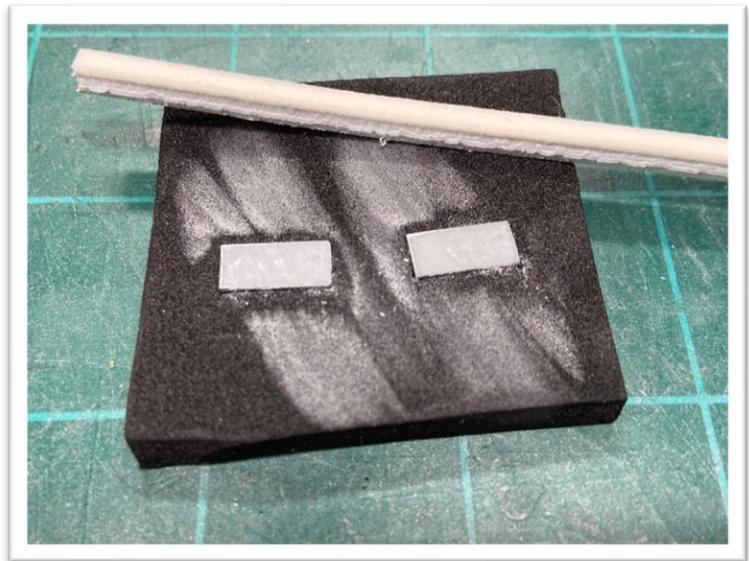
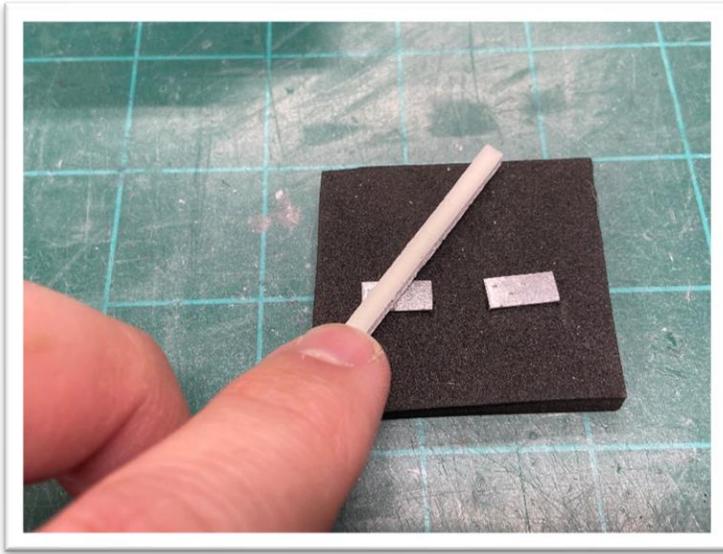
TOOLS FOR INSTALL:

- Safety glasses
- Glue (CA Gel Type & Canopy glue)
- Hobby Knife / Tweezers / Flush cutter
- Decal Setting Solution
- Sanding stick
- Ruler



STEP 2 – SANDING RCL STANDS

First task to complete is sanding the tops of your RCL stands smooth. These are very delicate parts with very thin legs. To make this easier, the foam sheet the legs sit in also is handy to help holding the part while sanding. Using a sanding stick work across the surface of the stand until you have smoothness desired.



STEP 3 – INSTALL RCL STANDS

With RCL stands sanded, next its time to install them. The bottom of legs and edge of platform that rests on cab have a 45-degree angle. Before gluing test fit to ensure stand is level. As there are many manufacturers of standard EMD cabs on the market not all cab angles are the equal. Test fit and if necessary, trim from the bottom of the legs with a flush cutter.

Once desired placement is satisfactory use canopy glue to secure the stand to the cab. Using canopy glue is forgiving for this task considering the potential need to adjust stand after placement. Use a straight edge to ensure stand is level with cab. Now let the glue dry.....



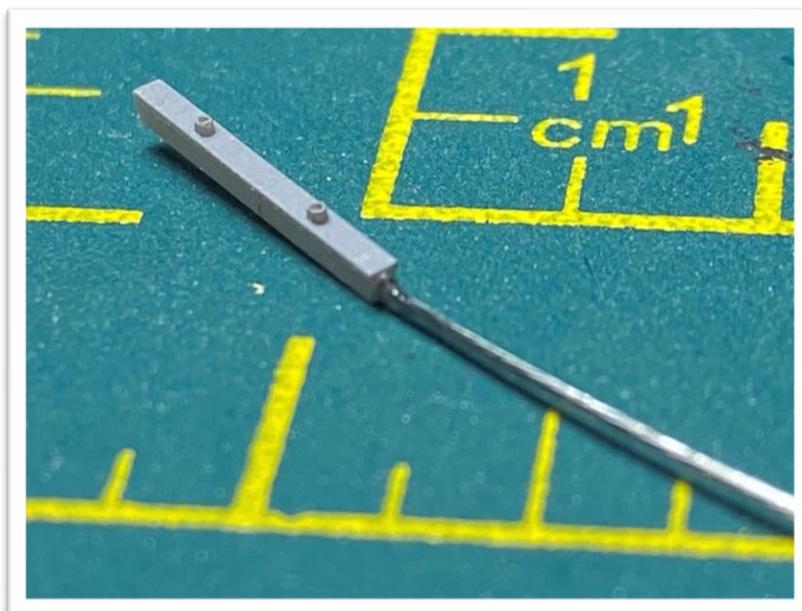
STEP 4 – PREPARE RCL ANTENNA BOX

While the glue is drying on your RCL stand, turn your attention to the antenna box.

Using your sanding stick, ensure the 3 small nubs on the bottom of the antenna box are sanding smooth.

It is easier to install the 0.015 wire conduit to the antenna box on the workbench vs trying to install it while on locomotive.

One end of the antenna box has a hole for this wire, it is not very deep but just enough to glue and let it set until dry.....



STEP 5 – INSTALL RCL ANTENNA BOX

Using canopy glue, apply with a toothpick to bottom of antenna box. Then place box onto RCL stand. Conduit for both boxes will be facing toward front of locomotive. Let glue dry...

While the antenna box dries, go ahead, and install the conduit box behind the headlight. A light sanding on the bottom will be required before install.

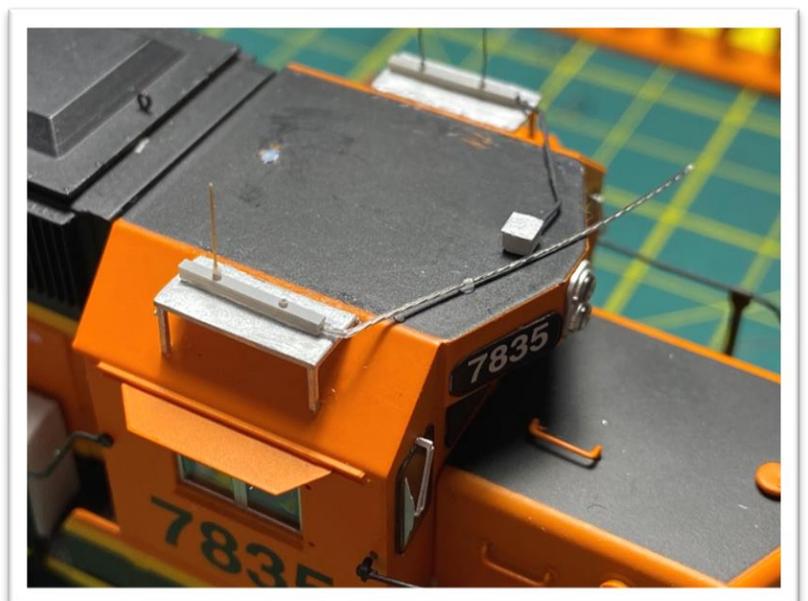


STEP 6 – ROUTE CONDUIT

After the glue dries from installing the antenna box and conduit box, its not time to route the conduit from antenna box to the conduit box across the cab roof.

For the example model shown on the conductors side I used tweezers to make two bends in the conduit. On engineers side I only made one bend. Cut the wire to fit up against the conduit box and secure with glue.

After wire has dried paint with your preferred method. On conductors cab I used black acrylic paint and a fine brush. On engineer side I used black sharpie marker.



STEP 7 – INSTALL ANTENNAS AND DECALS

Included in your kit are quite a few horse hair bristles that are used as the receiver antennas on the model. Select (4) to use, cut to desired length, and then install.

When installing I found dipping the end in canopy glue then setting into the mount holes on top of the antenna box.

Last step in the installation process is selecting the Remote Control decals that you want to use based on wish or prototype. MACRail partnering with Circus City decal developed this custom set to provide many different lettering/label configurations found across multiple railroads. Additionally, two neon green RCL signs are included to make your own signs to place at your yard or industry where the remote units will be in operation.

