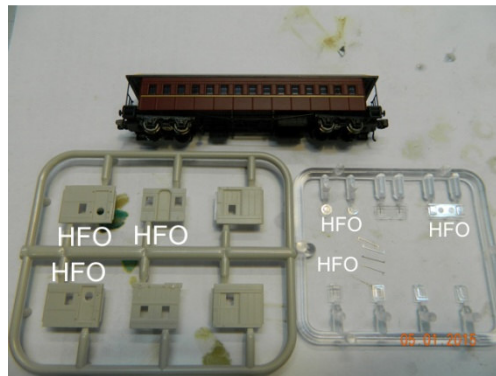
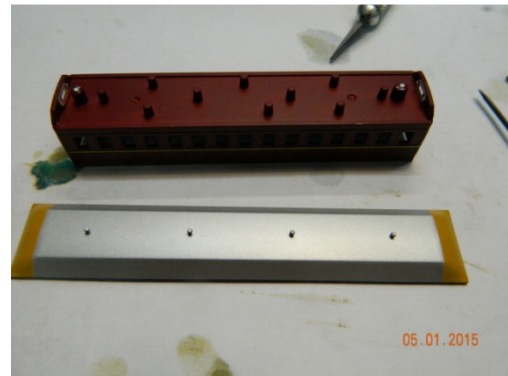


Gopher Models FO to HFO Conversion.

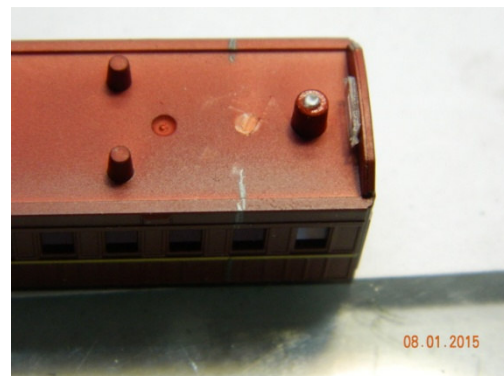
Kit contents : 2 sides, 1 end, 5 window inserts and 4 hand rails. 1 Inter-urban FO if included or needs to be purchased separately.



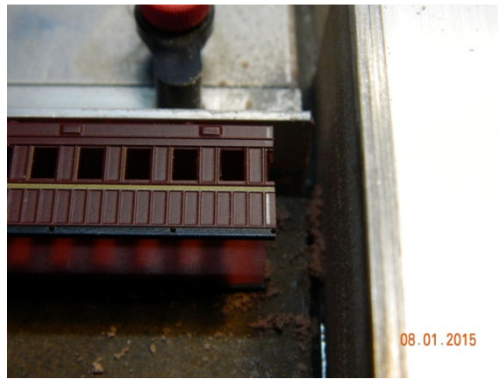
Step 1 : Disassemble the FO. This is easily done by gently pulling the floor down from the body. The floor is held in by 3 clips down each side. The end hand rails are not glued into the roof and will just pull away. The roof will require a bit of force to remove as it is glued in at each end. The 2 securing pins will snap in the process, do not worry about this as you will have to reglue the roof any way. File the 2 white pin remains flush with their columns.



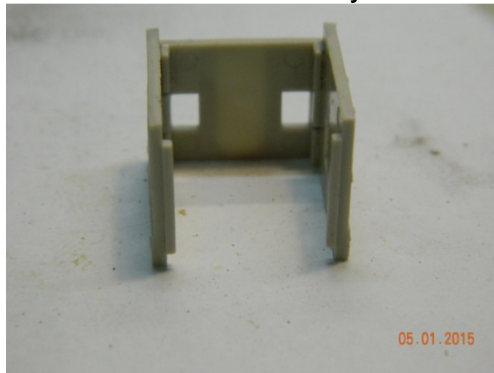
Step 2 : Modifying the body. The last 2 windows are removed from the body . Leaving only about ½ mm of the pillar between the 2nd and 3rd last windows, as shown by the photo on the left. Cutting is best done with a razor saw and mitre box. Make sure the cut is square. I found cutting from the roof down the easiest and not cutting right up to the line. Leave the cut a little short to allow filing and squaring up.



Once you have removed the section of body make sure the remaining part of the wagon is all square. this is best done with a true sander. The one I use is available from NWSL and is well worth the investment. The wagon needs to be sanded back to the pillar in the photo below. Take your time here.



Step 3 : Assembling the CCA parts. Check the parts for any burs and flashing. File off if any are present. Test fit all parts to make sure they fit together. File if necessary. On a flat surface (IE piece of glass) Glue the sides to the end upside down, so as the tops are flush. Make sure the corners are 90 deg's. I used the Tamiya extra thin cement. Allow to dry.



Once dry test fit to the wagon. Making sure it all sits flush. Fit roof to check for length. Once satisfied glue together. Allow to dry. Now turn your attention to the floor.



Step 4 : **This is the IMPORTANT part If you do this to the wrong end you have stuffed it.** Modifying the floor, all modifications are done to the END with the REMOVABLE BOLSTER. The right hand end in the photo below. The first step is to remove Bogies, coupler and the buffers and set aside. The buffers just pull out. As per photo below. Next you will need to trim the 2 sets of steps off flush with the floor. Clean up with a file. I used a saw mounted in a knife handle.



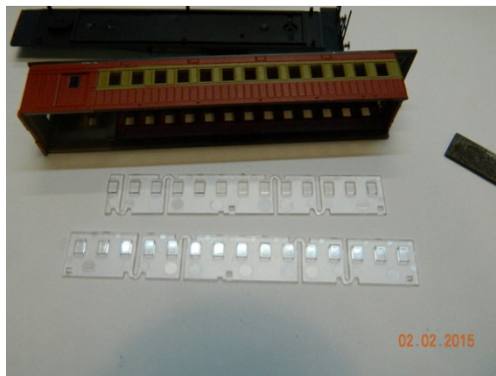
Test fit the floor into the body. Once satisfied with the fit remove the floor and paint the body into you desired colour scheme. Either Tuscan or Tuscan and Russet. Refer to photos.



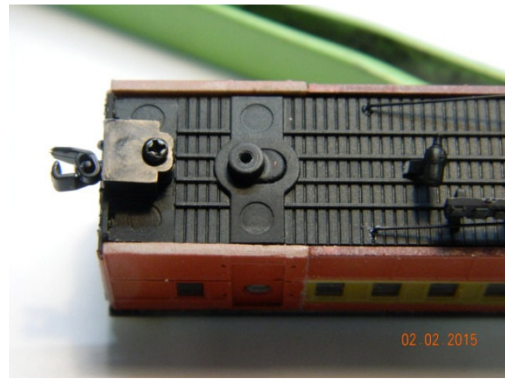
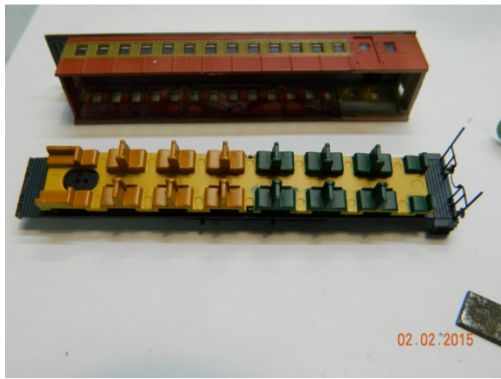
Step 5 : Reassembly. First reglue the roof making sure it is all square. At this stage you may want to add the decals and dulcote if you have not all ready done it.



Now you will need to refit the windows. Fit the new windows into the new section. New windows shown in above photo. The original windows will need to be trimmed to fit. Another **important** step as the windows are handed. The widows have the cut outs that hold the floor clips in. So it is important to trim the 2 windows off the correct end. (CCA wagon in photo)



The top window glass has been shorten to the correct length and goes into the windows facing the camera. The lower window strip will need the 2 windows trimmed from the opposite end to the top to fit correctly in the other side. Press fit the windows back in place and secure with a little glue. Refitting the seats and floor. If you wish you can trim the seats back but I did not bother. First step is glue the steel weight back with a little super glue. This saves a lot of frustration. Make sure the hole in the weight is to the non modified end of the floor. Add seats to floor and carefully push back into the body. If the windows have been but in correctly it should just clip back in. The end columns with relocate into the holes in the roof for them. Refit the coupler. When refitting the removable bolster it will need to go back opposite to the way it was. You will need to use the screw hole closest to the end of the wagon as shown in the photo on the right. refit the bogies.



Last Step : fit the four hand rails in the pre drilled holes.



Completed CCA ready for service.

Instructions by Dave Pallas, www.pallashobbies.com.au

A colour copy of the instructions can be found on the web site.