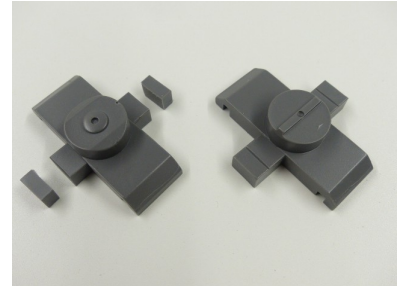


1.

Sand the back of the side frames and brake shoes on a flat piece of sand paper of about 80 - 100 grit. Then buff off with some abrasive pad if a smoother finish is preferred. Bogie main blocks being made for 45mm can be left as supplied, but If making for 32mm, you can cut off the outer portions of the bogie wings to the scribed line. For a wider looking bogie on 32mm you can leave them on.



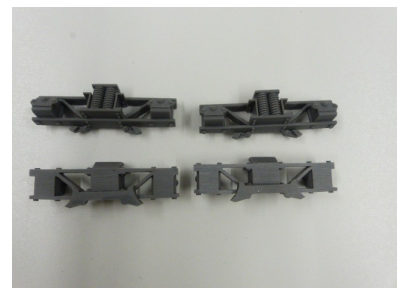
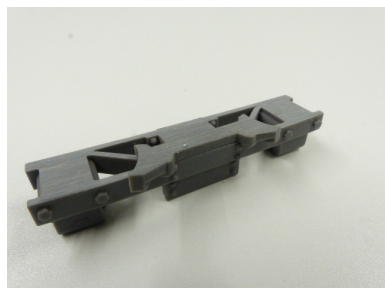
2.

With a small file, file the ends of the pre-cut tubes smooth and deburr the outer edges. With a scalpel, deburr the inner ends. Assemble the wheel sets making sure the axle has been oiled (auto motor 10-40 oil is very good) and the back to back is set to the correct gauge for your rails.



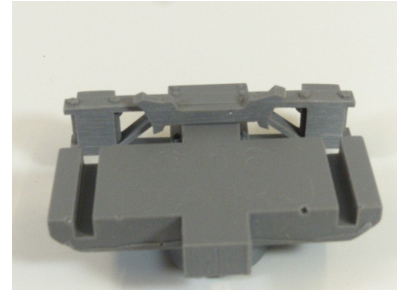
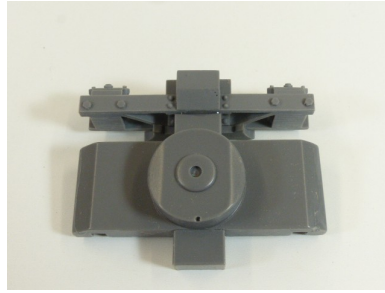
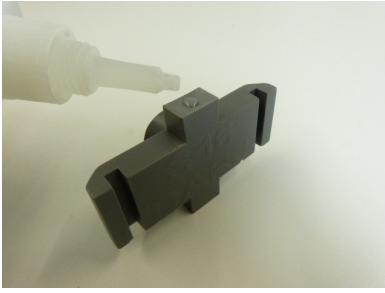
3.

Put a small amount of glue onto the middle section of the brake shoe casting and clip the shoe casting onto the back of the bottom of the side frame casting using the grooves cast into the shoe. Make sure the bottom of the shoe and frame casting are flush.



4.

The shoe casting will have created a step in the back of the side frame, the bogie wing fits into this step. Put a small amount of glue onto the end of the bogie body wing and glue the bogie side frame into place. The wing should be lined up so it's exactly in the middle of the side frame, the wing and the back of the spring casting will line up and the brake shoe step will set the height.



5.

Clip the wheel sets into place, make sure the axle tubes are pushed fully to the bottom of the axle groove. Put a **SMALL** spot of glue onto the middle of the tube, just enough to hold the wheel set in place. You could use hot glue, epoxy or thick super glue for this if you don't trust yourself not to let glue run into the axle tube! Drill a 2.4mm hole into the middle of the main bogie body for the fixing screw. The 'bar top' bogie is to control body roll and the 'ball top' bogie is for track compensation.

