

# Furness Railway Wagon Company

## NER-Private Owner P1 4ton Hopper

1. Take (part 1) Sole bar/buffer and attach the buffer cross beam (Part 2).



2. Trim the embossed plasticard (part 3) to fit the chassis

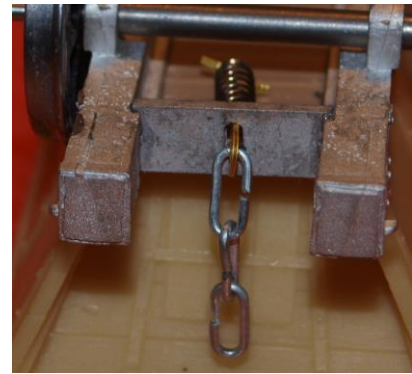


3. Attach the cast top (part 4) to the chassis so that the strapping on the top matches the strapping on the chassis



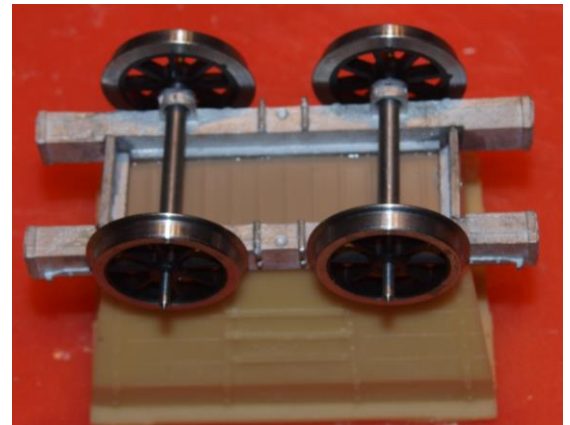
4. Fit the links (part 6) on to the coupling hooks (part 7). Then push the hook assembly through the hole in the buffer cross beam.

5. Push the spring (part 7) over the back of the hook assembly and bend over to stop the spring coming off



6. Take a set standard 3'1 wagon wheels and cut off the part of the axles so that they are flush with the front of the wheels

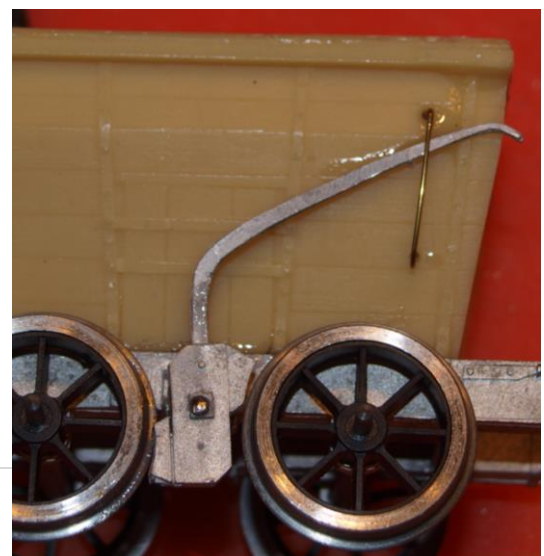
7. Remove one of the wheels from each axle and slide the axle through the holes in the bottom of the sole bars. then reattach the wheels



8. Take the brake pivot (part 8) and attach it to the bottom of the sole bar so that it is central.



9. Drill out the hole in the bottom of the pivot.



10. Thread the pin (part 9) through the brake casting (part 10) and into the hole in the pivot. Now fix the brake assemble in place so that the it does not foul the wheels. Next bend a bit of wire and fix it across the brake lever.



Finally paint the wagon black.

### History of the wagon

The history of 4 ton hopper or chorderon wagon goes back to the first wagon ways in the north east of England at the end of the 18th century and ended in the 1970's with the closure of Seaham Harbour's coal export facilities. Thousands of this type of wagon was built from about 1830's until the 1890's. And their design went onto dominate the design of both wagons and coal, lime and ore facilities around the north of England. These wagons were always painted black and the initials of the wagon's owner were applied to the side on the top plank

## Check List

1. 2x Sole bar castings (White-metal)
2. 2x sole bar cross beams (White-metal)
3. 1x piece of embossed plasticard
4. 1x top casting (Resin)
5. 1x brake pivot casting (White-metal)
6. 1x brake casting (White-metal)
7. 1x pin
8. 1x brass wire

3'1 Wheels are required to finish these are either plain or open spoked and can be obtained from either slaters or Haywood railways