

Furness Railway Wagon Co.

Great Eastern Railway/LNER/BR

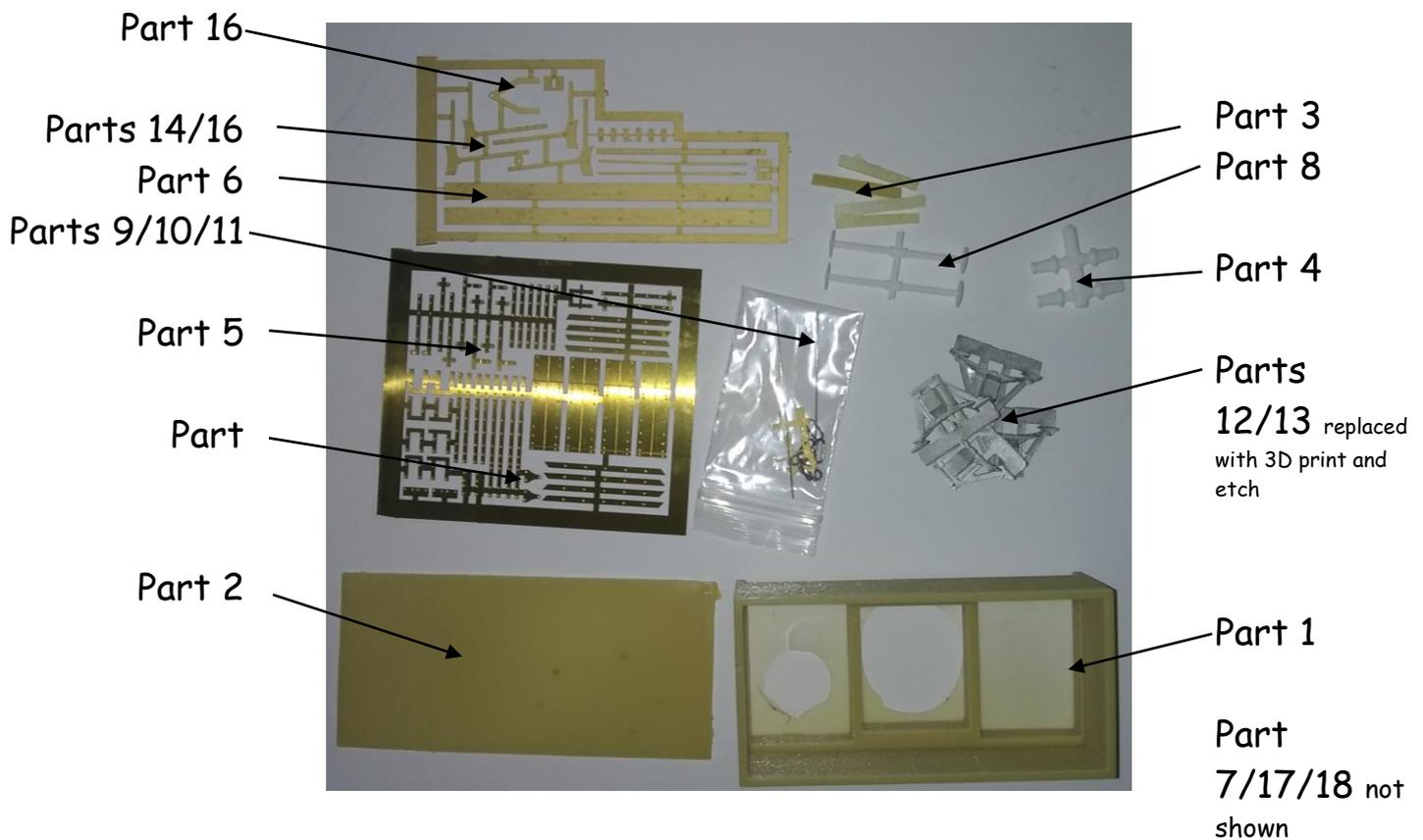
Diagram 16 9ton

5 Plank Coal and General Merchandise Wagon

Wooden Under-Frame

Wheels, paint and transfers required to complete.

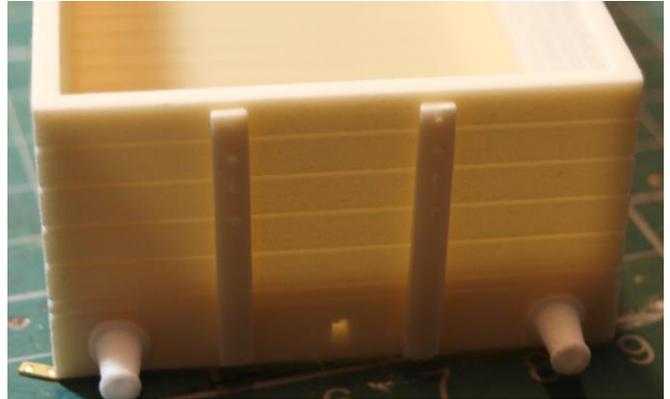
The Parts.



Wagon Construction

1. Take the wagon body (part 1) and remove any flash. Drill out the holes for the buffers and coupling hook.

2. Cut the floor (part 2) to size and glue to the inside of the body casting.
3. Attach the end supports (part 3) as shown, you will need to trim the bottoms so that they are flush with the bottom of the buffer beam.
4. Now fit the buffer guides (part 4) into the holes in the buffer beams.



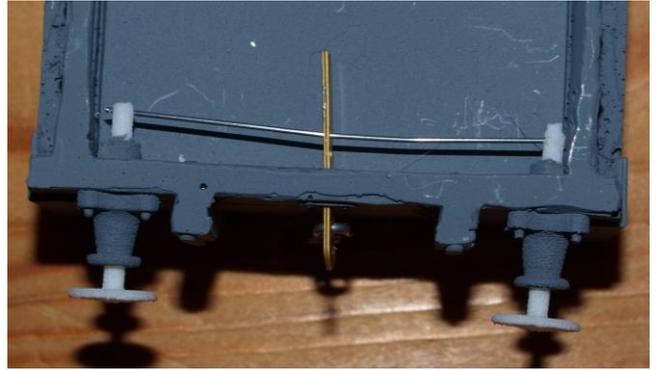
5. **Please consult a photograph before going any further.** As there are a number of strapping variations.

6. Next punch out the half etched reverts and attach the strapping (part 5). The sole bar plates are on the brake etch (Part 6). Note some GER wagons were fitted with door balancers these are formed by selecting the door strapping with the lug on it and the small triangular part on the strapping etch. These need to be folded up and linked together with a short piece of wire as shown. Alternatively some wagons were fitted with conventional door stops (part 7)



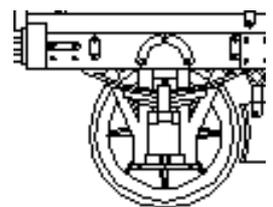
7. Drill out the holes in the ends of the buffer heads (Part 8) using a 0.5mm drill

8. slide the buffer heads through the guides
9. assemble the 3 link couplings (part 9) onto the hooks (part 10)
10. cut the piano wire (part 11) to length

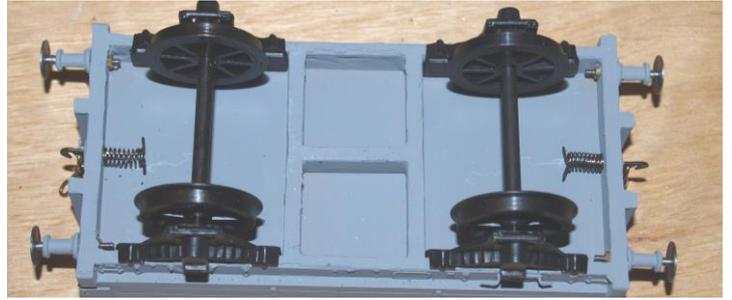


11. Slide the wire through the coupling hook, using the hole closest to the back of the buffer beam. Then slide it through one of the holes in the buffer heads. Once the wire is hard up against the back of the sole bar slide the wire back into the hole in the other buffer head

12. Assemble a wheel set, 2 x etched W-iron's (part 12), 2 x bearing's and 1 x wheel/axle unit and 2 Axle boxes (part 13), do not glue the bearings into the W-irons. Again using two-part epoxy resin, glue the assembled wheel set onto the sole-bars so that they are square and line up with the rivets as shown on the drawing.



13. Repeat for the other wheel set. Use a straight edge across the back of the wheels to aid getting these parallel and square to the chassis.

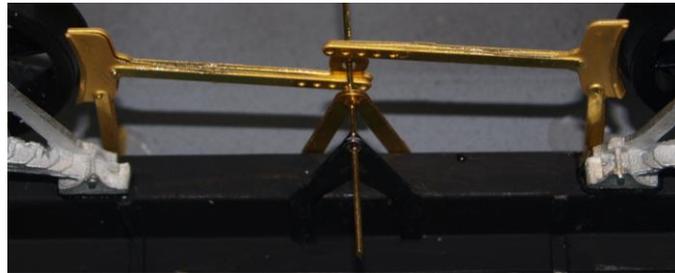


14. Then laminated brake block etch (part 14/15)



15. Attach the "V" hangers (part 16) to

either side of the sole bar and then attach the brake blocks to the inside of the sole-bar as



shown making sure that the brake block does not foul the wheels.

16. Next fix the brake lever (part 17) and brake ratchet (part 18) to the sole-bar and to the out side of the brake gear pivot as shown.



17. You are now ready to paint the model in the livery of your choice.



History of the Wagon

Great Eastern Railway.

In 1885 the Great Eastern Railway Company introduced a 9ton 5 plank coal wagon (Dia.16) for the movement of general goods and minerals. And by 1895, when building stopped, there were 3,740 of these wagons all of which had been built at the company's own wagon works at Stratford.

Dia.16 wagons were mainly used to convey general merchandise and domestic coal to and from between East Anglia and London although some of the wagons were photographed as far away as northern Scotland and south west England. Some of these wagons were transferred to the engineering dept's stock by the LNER.

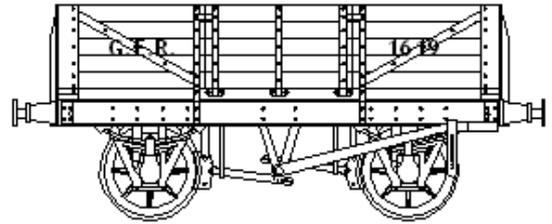
The wagons were issued the numbers by the Great Eastern Railway: 2062, 2195, 2221, 2376, 2640, 4062, 7125, 7963, 8444 and 9916.

3,000 of these wagons were absorbed into the LNER. These would have been renumbered by adding 600,000. Wagons built to dia.16 started to be withdrawn in the early 1920's, with the last wagon being withdrawn in 1941.

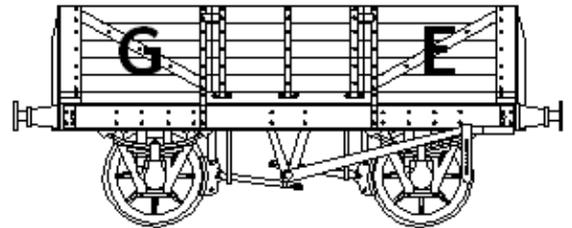
In Great Eastern Railway days the wagons would have been painted mid grey which would not have changed through the wagons life. In LNER days the grey colour remained and the lettering changes according to the livery of the day.

Liveries

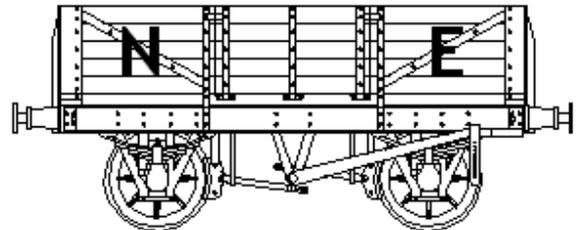
Great Eastern Railway
Early Livery Circ 1891



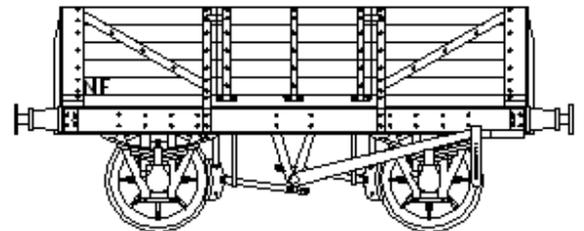
Great Eastern Railway
Livery 1910



LNER Early Livery
Circ 1923-36



LNER Livery Circ 1936-1947



Furness Railway Wagon Co.

Great Eastern Railway LNER

Diagram 16 9ton

5 Plank Coal and General Merchandise Wagon

Wooden Under-Frame

1. One brake/sole bar etch,
2. One strapping etch,
3. 4 end support castings,
4. Four axle box castings,
5. One W-iron etch,
6. One wagon body casting,
7. One floor casting
8. Four buffer guides,
9. Four buffer heads
10. Two coupling hook springs wires,
11. Six coupling hook links,
12. Two door stop etchs.

We recommend any of Haywood Railway's 3'1" wheels as the GER used any wheels at hand. For LD&ECR/GCR 3'1' open spoke wheels from Haywood Railway.

Transfers are available from POW sides.