

Furness Railway Wagon Co.

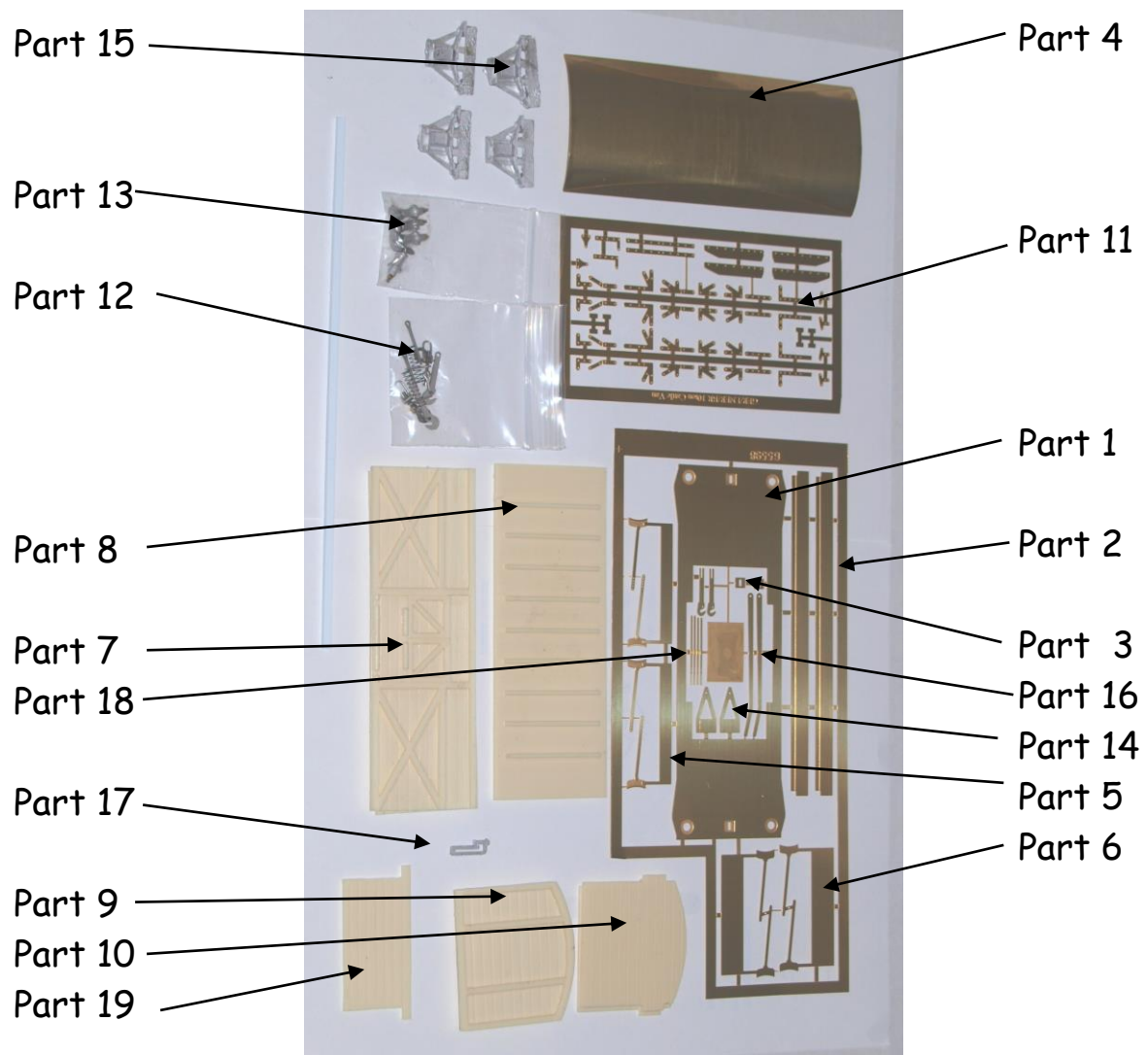
Great Eastern Railway/LNER/BR 1900 Diagram 7

10ton Cattle Van Steel Under-Frame

Wheels, paint and transfers required to complete.

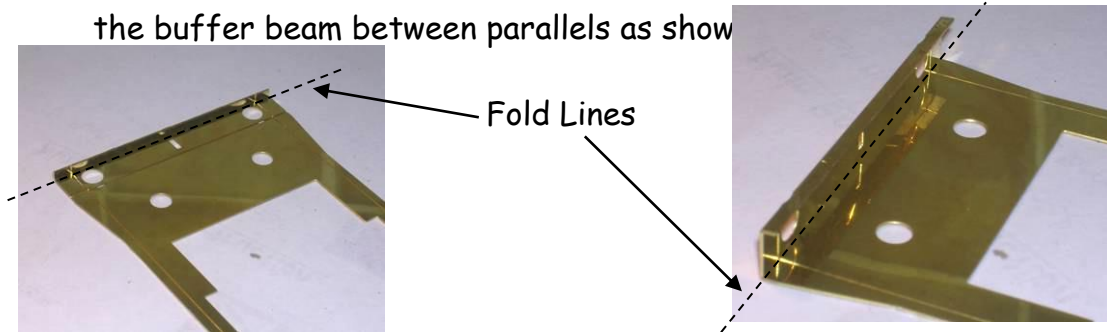
Please note that to aid the folding of the various parts score all the halfetched foldlines that are to be folded.

The Parts.

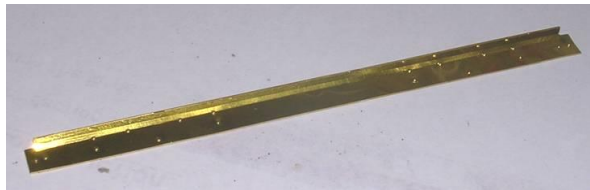


Chassis Construction.

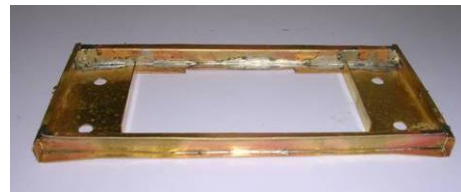
1. Remove chassis (part 1) from the etch and fold up the bottom of the buffer beam between parallels as shown



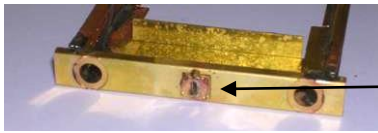
2. Next fold up the buffer beam completely as shown. Make sure that the resulting U shape is square so as to fit the sole bars. Repeat for the other end of the chassis.
3. Remove the sole-bars (part 2) and punch out the rivets. Next fold up the bottom of the sole-bars between two parallels. Make sure that the resulting shape is square.



4. Click one of the sole-bars in to the half etch slot that runs between the two buffer beams. Solder into position using 188C solder. Make sure that the sole-bars are actually soldered inside the buffer beam. Repeat for the other sole-bar.



5. Next remove the buffer beam reinforcing plates (part 3) and punch out the half etched rivets and tin the back of each piece with 188C solder. Now sweat the plates onto the half etched square in the front of the buffer beam.

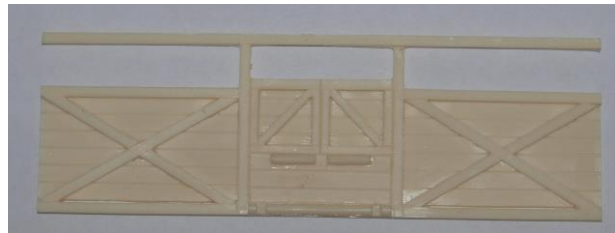


Buffer beam reinforcing plates

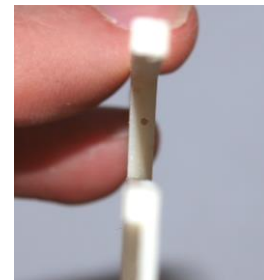
Final Assembly of van.

1. First solder wire in to the half etched slots in the roof (part 4).
2. Next take one of both the etched brake and brake overlay (Parts 5 and 6) punch out the rivets and solder together.
3. Wash and Clean up the castings making sure that the casting fit together before gluing.

The sides (part7) have to have all excess flash removed as shown.



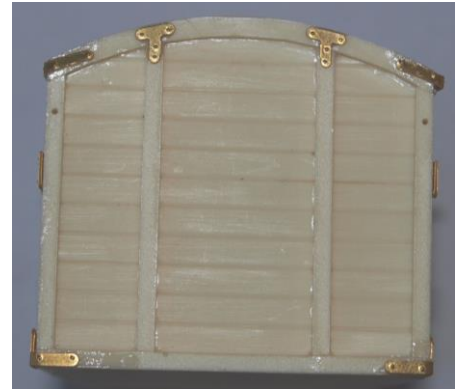
4. Next having consulted a photograph drill the upright beams and the ends so to allow the fitting of the wire later. NB this must be done at this stage as there will be no access later.



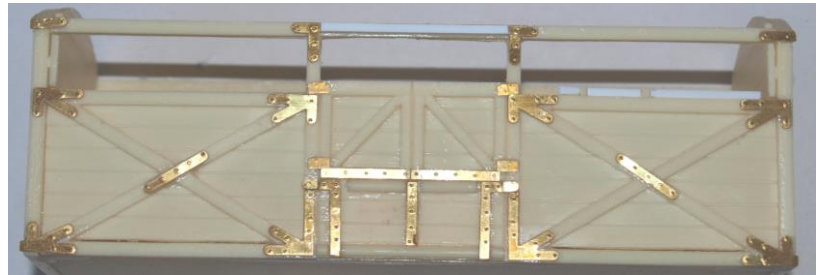
5. Fit one of sides (parts 7) to the floor (part 8), making sure that the ends of the sides line up with the floor and are square with the chassis. Next fit the ends (Parts 9) of the to the sides and floor, as shown. Then fit the last side to complete the box.



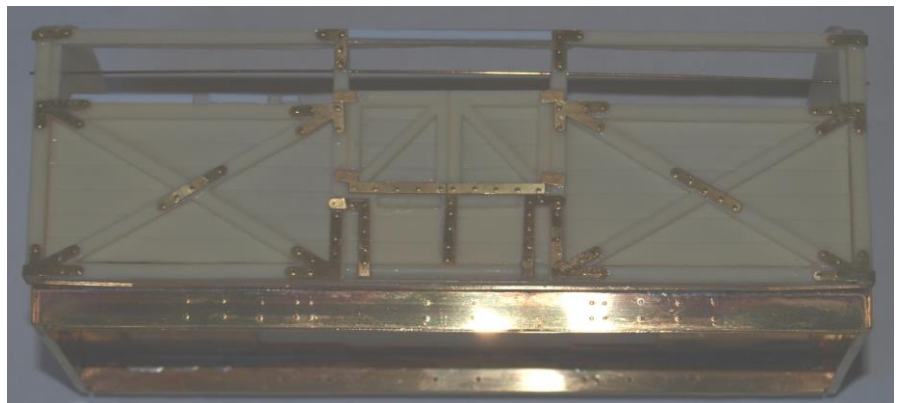
6. Next punch out the half etched rivets on the strapping etch (Part 11) and fit as show. NB the ends of the hinges for the drop door fit into the slots in the half round section these may need to be trimmed.



7. Next fit the micro strip the top of the door and to on side as shown this the spacer for the partition.

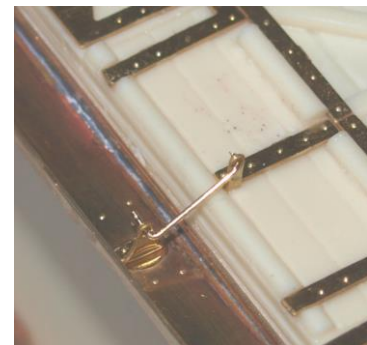


8. Position the top of the wagon in the middle of the chassis then glue the chassis to the top.



9. Next pinch out the rivets and fold up the L section end supports and fit as shown.

10. Next make up the door balancer as shown.

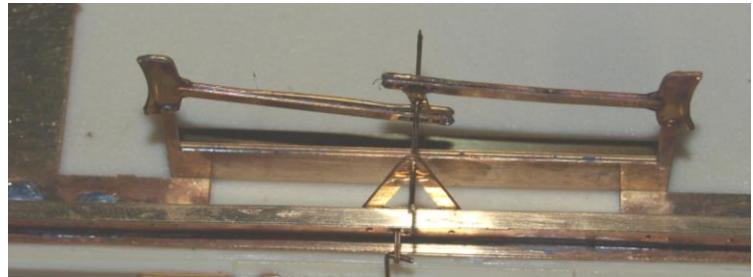


11. Next push the coupling assemblies (part 12) (Hooks and links) into the chassis then push over the spring and secure. Then fix the four buffers (part 13) into the holes in the buffer beam using two part epoxy.



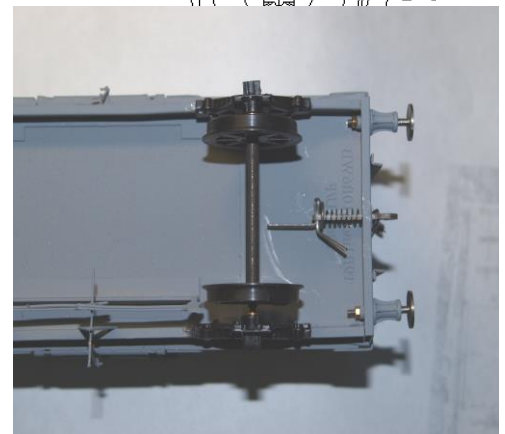
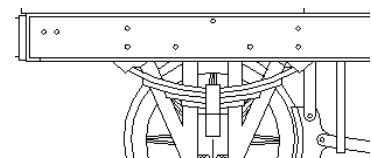
12. Next attach the brake V hanger to the inside of the sole bar (part 14) so that it lines up with the rivet detail.

13. Place the brake gear assembly against the inside of chassis and slide down into the chassis until the holes



line up and you can feed a piece of wire in. Position the casting with care centrally between the rivets on the sole-bar.

14. Drill out the w-iron castings to suit the bearings of your chosen wheels. Assemble a wheel set, 2 x W-iron's (part 15), 2 x bearing's and 1 x wheel/axle unit, do not glue the bearings into the W-irons at this stage. 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 in the drawing.



15. 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.

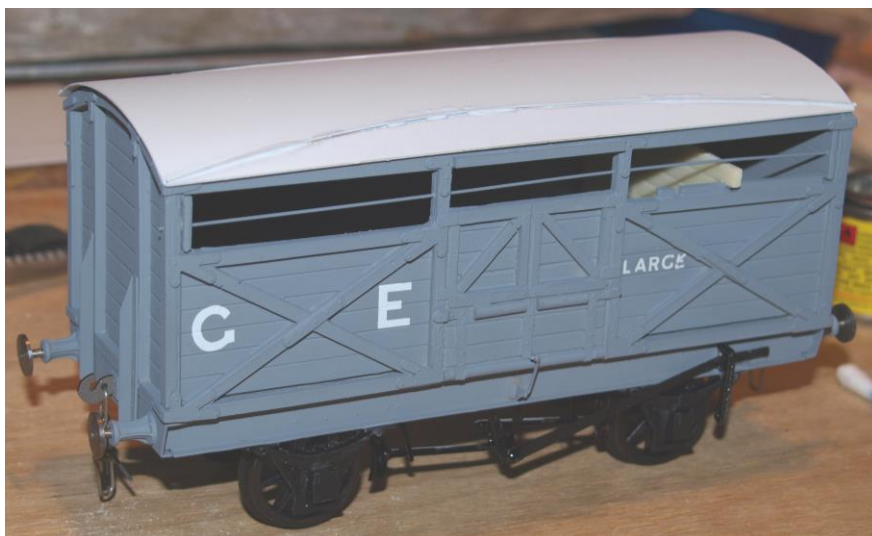
16. Next fix the brake lever (part 16) and ratchet casting (part 17) to the sole-bar as shown below.



17. Next fit the brake safety bars (Part 18).



18. Finally fit the wire in to the pre drilled holes, the partition (Part 19) and the roof, making sure that it is square. Paint the model in the livery of your choice.



History of the Wagon

Between 1900 and 1909, the Great Eastern Railway Company ordered a total of 800 10ton large cattle vans from the company's own wagon works at Temple mills. The vans were built with outside frames and mounted on a steel under-frame. 25 of the vans built with automatic braking to allow them to run with passenger trains.

The vans were used to convey livestock to and from East Anglia although some of the wagons were photographed as far away as northern Scotland and south west England.

Known running numbers were 26001-26750, All 800 of these wagons were absorbed into the LNER. These would have been renumbered by adding 600,000. 25 of these vans managed to last into early British Railways. In Great Eastern Railway days the wagons would have been painted:

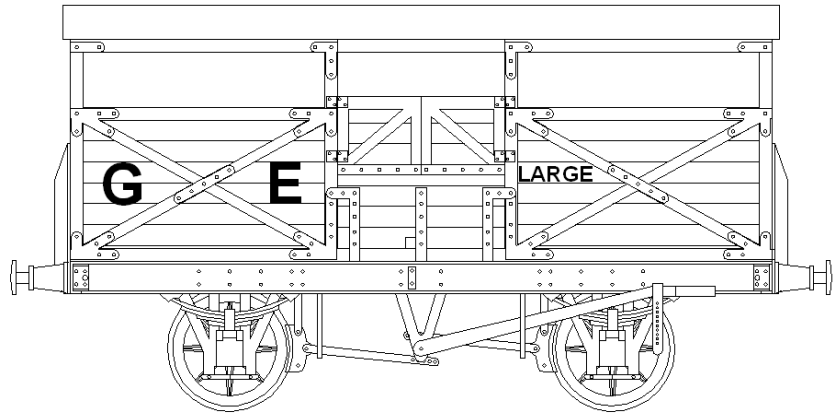
- Slate grey but would have gained a liberal coat of white wash once they had been used.
- Red Oxide/Dark Red outer panels on the Ends (Pre 1912) or Light French grey with a large 'V' in Red Oxide/Dark Red painted on the Ends for Vacuum fitted stock.
- All had White/light grey roof and everything below the sole-bars and the buffers in black.

LNER

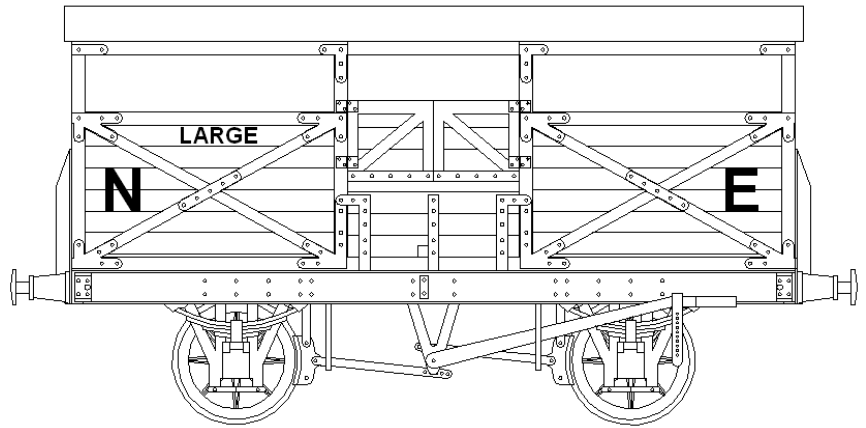
Under the LNER the vans would have also been painted grey, with the fitted wagons being painted bauxite. In British Railways days, the wagons would have probably not repainted unless there was a change in use.

Liveries

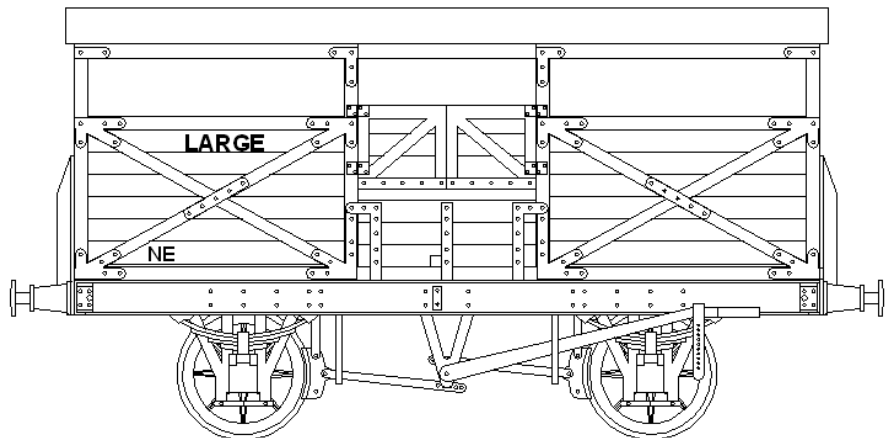
Great Eastern Railway



LNER early
Circ 1923-36



LNER Late
Circ 1936-47



Furness Railway Wagon Co.

Great Eastern Railway/LNER/BR 1900 Diagram 7 10ton Cattle Van Steel Under-Frame

1. Construction Manual,
2. One Brass chassis etch,
3. One rolled etched brass roof.
4. One Brass Strapping etch
5. One brake lever ratchet casting,
6. Four W-iron/axle box castings,
7. Two wagon side casting (resin),
8. Two wagon Outside end casting (resin),
9. One wagon floor Casting (resin),
10. One wagon partition Casting (resin),
11. Four buffer assemblies,
12. Two coupling hook springs,
13. Six coupling hook links.
14. Two lengths of 0.7mm brass wire.

We recommend Slaters 3'1" split spoke wheels for this kit.

Transfers are available from POWsides.