

Furness Railway Wagon Co.

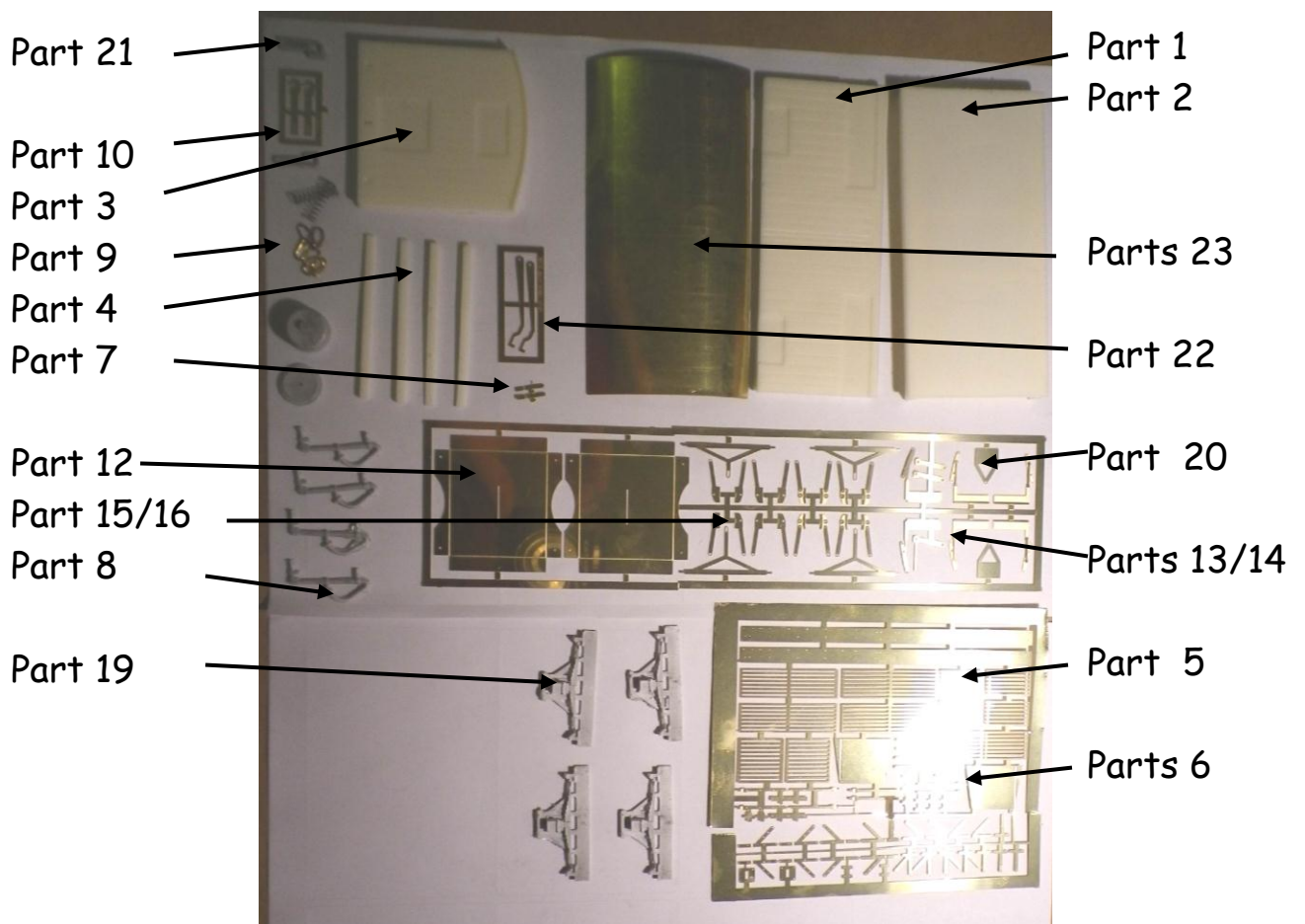
NER/LNER/BR F4

5ton Fitted Vent Van

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.



Final Assembly of van.

1. Wash and Clean up the castings making sure that the casting fit together before gluing.

2. Fit one of ends

(part 1) to the Chassis (part 2), making sure that the ends of the sides line up with the floor and are square the



bottom of the side has the long running strip, with a curved end, on it.

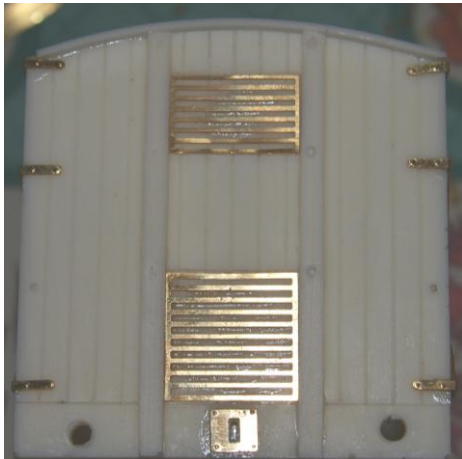
3. Now repeat this for the other end as shown.



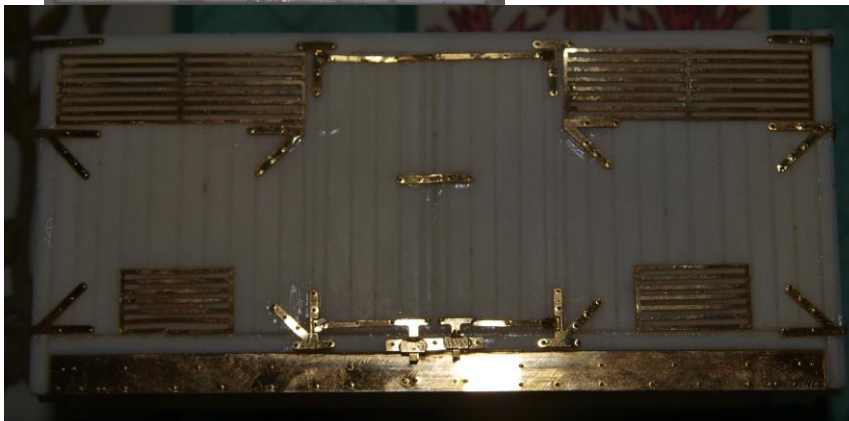
4. Next fit the sides (Parts 3) to the ends and floor, as shown. Then fitting the last side completes the box.



5. Now you need to fit the end supports (part 4) as shown. Please note that the vents have to fit into the none planked areas and the end supports need to be clear.



6. Next gently remove the etched vent covers (part 5) from the etch and fit into the none planked

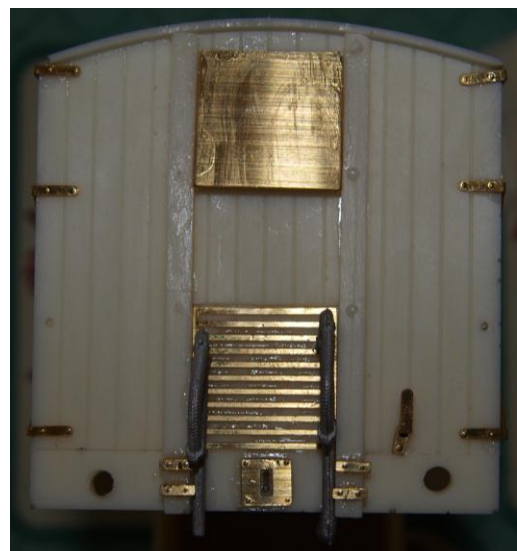


recesses as shown.

Then punch out the half etched rivets on the

strapping etch (part 6) and fit to the side as show. Then repeat for the other side of the wagon.

7. Next fold up and fit the lamp brackets (part 7) and the last bit of strapping, followed by the brake pipes (part 8)

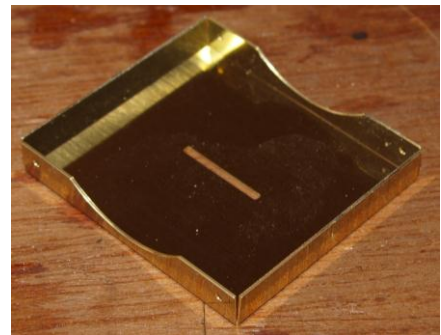


8. Next, assemble the links (part 9) on to the coupling hook (part 10) and push

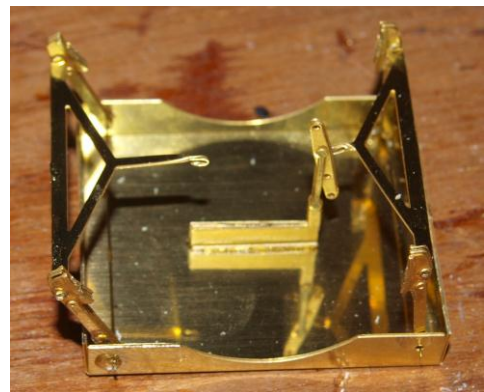


through the slot trim off the part of the hook that sticks through the back of the buffer beam and glue into position. Then fix the four buffers (part 11) into the holes in the buffer beam using two part epoxy.

9. Fold up the brake support (part 12) and then attach the brake pivot blanks (part 13) to the brake pivots with the detail (parts 14/15). Note these are handed. The pivot assembly fits into the slot in the base of the brake support.

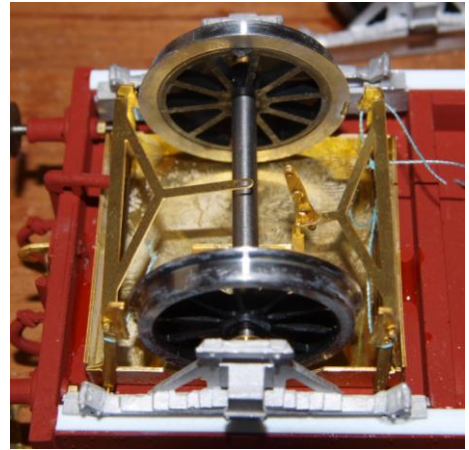


10. Next attach the brake block blanks (part 15) to the brake blocks with the detail (part 16). Note these are handed.



11. Now thread some of the thin wire through the holes in the sides of the brake support, then through two of the brake assemblies.

12. You then need to fit the brake pull bars (parts 17/18). These also act as spacers. The longer bar should be fitted furthest from the pivot and should be left loose in order to fit the wheels.

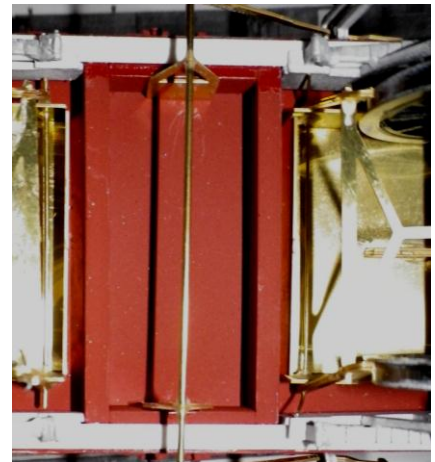


13. Now drill out the axel boxes (part 19) to take your chosen wheel sets.

14. Using the axel box assembly as a guide fit the brakes to the chassis as shown. Once satisfied that they are in the correct position glue down. And repeat for the other end of the wagon.

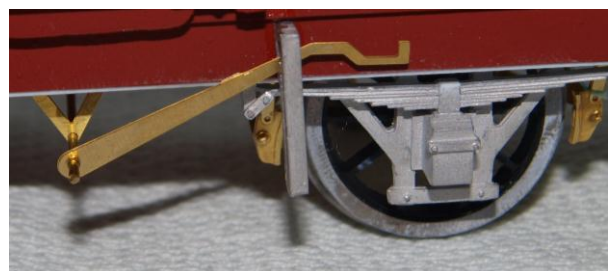
15. Now you can attach the wheel assemblies making sure that they are square and don't bind on the brakes.

16. You can now close up the other side of the brakes using some wire. Again make sure that the brakes don't bind on the wheels.



17. Then take the 'V' hangers (part 20) and attach as shown.

18. Next fix the brake lever (part 21) and ratchet casting (part 22) to the sole-bar as shown below.



19. Finally fit the roof (part 23), making sure that it is square. Paint the model in the livery of your choice.



History of the Wagon

This kit represents the NER's diagram F4 Perishable goods van.

Approximately 600 of these vans were built between 1897 and 1906. 17 of these wagons had long enough lives to be nationalised. All of these wagon were dual fitted with Westinghouse and Vacuum braking systems to enable them to be run with passenger trains. In addition to this the NER/LNER ran these wagons in block trains from places like Hull to London and other large cities. These wagons were used to convey all sorts of perishable goods from milk to fish and would have been a common sight around Britain.

In NER and early LNER days these vans were painted Indian red which was a shade of red/brown oxide. For more information on liveries please consult LNER Wagons Vol.2 North-Eastern Area

Known running numbers are 507, 61987, 92196-295

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NER/LNER/BR F4 5ton Fitted Vent Van

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

We recommend Slaters 3'7" spoked wheels
Transfers are available from HMRS.