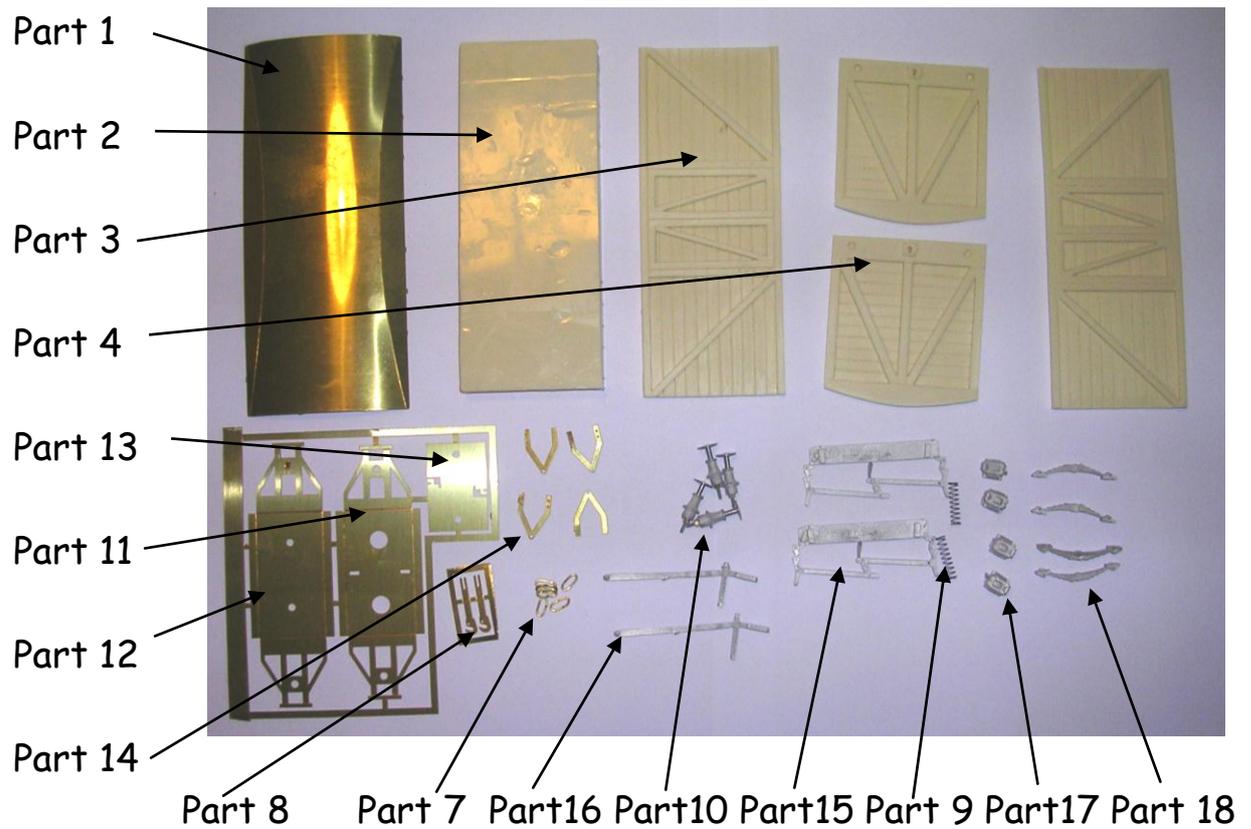


Furness Railway Wagon Co.

NSR/LMS/BR 10ton Box Van

Wheels, paint and transfers required to complete.

The Parts.

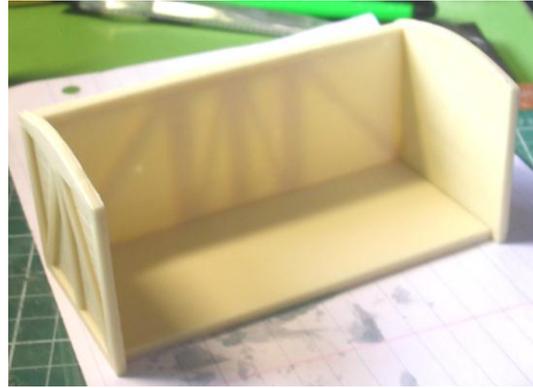


NB part 6 not shown

Assembling the van.

1. Solder the wire into the half etched slots in the roof (Part 1).
2. Wash and clean the castings, making sure they fit together before gluing.
3. Fit one of the sides (part 3) to the floor (part 2), making sure that the end of the side lines up with the floor and is square. Then fit the ends (Part 4) making sure that the ends line up and are square.

The ends should be equally spaced about the floor. Finally, fit the last side making up the box.



4. Next punch out the half etched rivets on the etch of the strapping (Part 5) and fit as shown.



5. Next cut a piece of plastic rod (Part 6) to fit above the door as shown. NB the 2mm width fixes to the brass strapping

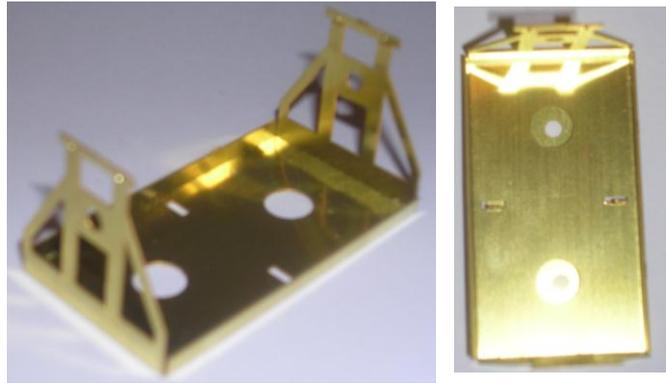


6. Then fit a piece of wire over the door as shown.

7. Next, assemble the links (part 7) on to the coupling hook (part 8) and push through the slot. Now, push the spring (part 9) over the back of the coupling hook and bend the tags over securing the spring. Then fix the four buffers (part 10) into the holes in the buffer beam using two part epoxy.



8. Next fold up the brass w-irons (Part 11-12) and rocking plate (Part 13). Slot the tags on the rocking plate through the slots on the w-iron that with the circles in the base and then twist round to secure.



9. Assemble a wheel set, 1 x W-iron, 2 x bearings and 1 x wheel/axle unit, do not glue the bearings into the W-irons at this stage. Glue the assembled wheel set onto the chassis using the pips as a guide.



10. Repeat for the other wheel set.

11. Next punch out the half etched rivets on two of the etched V-hanger (part 14) and attach as shown.

12. Assemble the other two etched 'V' hangers (Part 14) and brake gear casting (part 15) on a piece of wire. Then place against the inside of sole-bar and slide down into the chassis.



Glue the brake gear into position using two part epoxy resin, this will give you opportunity for adjustment. Position the casting with care centrally between the rivets on the sole-bar. Repeat the procedure for the opposite side.

13. Next fit the axle boxes and spring castings to the W-irons.



14. Next fix the brake lever and ratchet casting (part 16) to the sole-bar and the outside V-hanger as shown.

15. Finally fit the roof, making sure that it's square. Paint the model in the livery of your choice.



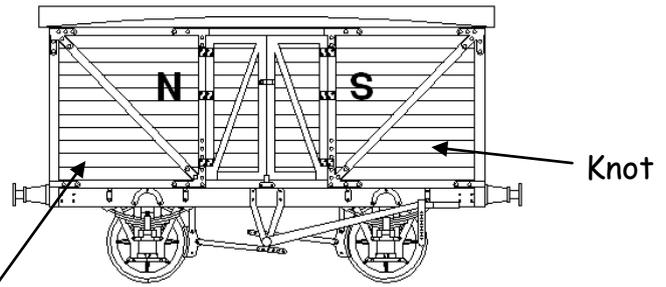
History of the Wagon

In 1911 the North Staffordshire Railway (NSR) ordered 6 fitted 'Silk Vans' from Harrison & Camm of Rotherham, within twelve months for 50 unfitted covered vans to the same design were ordered from Metropolitan Amalgamated Railway Carriage & Wagon Co. This wagon is represented by this kit. These wagons differed from previous goods vans as they were 18'3" long and ran on a 10' wheel base.

The wagons were rated at 10 tons and mainly used to convey general merchandise to and from North Staffordshire. The wagons have been photographed as far away as northern Scotland and south west England. The only wagon numbers known to be issued by the NSR are 5427 and 6734; most of these wagons were eventually absorbed into the LMS. These would have been renumbered by the LMS adding 19,000 to the original number. In the days of the NSR the wagons would have been painted Red Oxide and in some cases the iron work picked out in black with a light coloured roof. Originally, these wagons would have had a large 'N' on the left, and a large 'S' on the right, of the doors. A 'Knot' symbol would have been below on the right and the wagon's number on the left of the doors. It is thought that the wagons were repainted grey from 1923 to 1935 and then painted bauxite from 1936 to 1948. In British Railways days, the wagons would have reverted to a shade of grey.

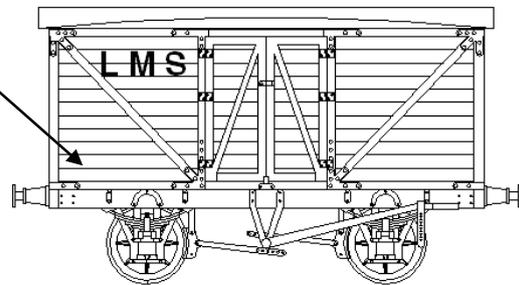
Liveries

North Staffs
Livery Circ 1912

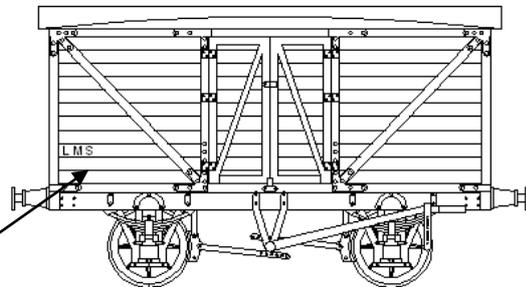


Numbers

LMS early Livery
Circ 1923-36

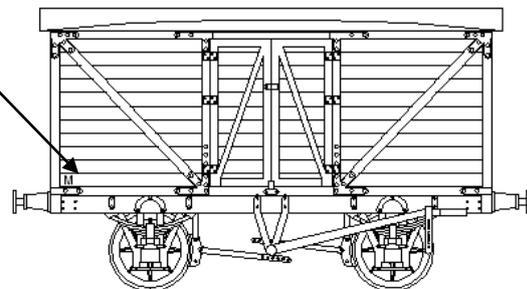


LMS Late Livery
Circ 1936-47



Numbers

BR early Livery
Circ 1947-57



Furness Railway Wagon Co.

NSR/LMS/BR 10ton Box Van

1. Construction Manual,
2. One rolled etched brass roof.
3. One Brass Strapping etch
4. Two brake gear castings,
5. Two brake lever castings,
6. Four axle box castings,
7. Four axle box spring castings
8. Two wagon side casting (resin),
9. Two wagon end casting (resin),
10. One wagon floor Casting (resin),
11. Four buffer assemblies,
12. Two coupling hook springs,
13. Six coupling hook links.
14. One coupling hook etch.
15. Two lengths of 0.5mm brass wire.
16. One length of plastic rod. (2.0 x 1.5 mm section)
17. One Brass 'W' irons/rocking plate etch.
18. Four Brass etched 'V' hangers.

We recommend Haywood Railway's 3'1" split spoke wheels.

Transfers are available from HRMS LMS pre grouping sheet.