

Furness Railway Wagon Co.

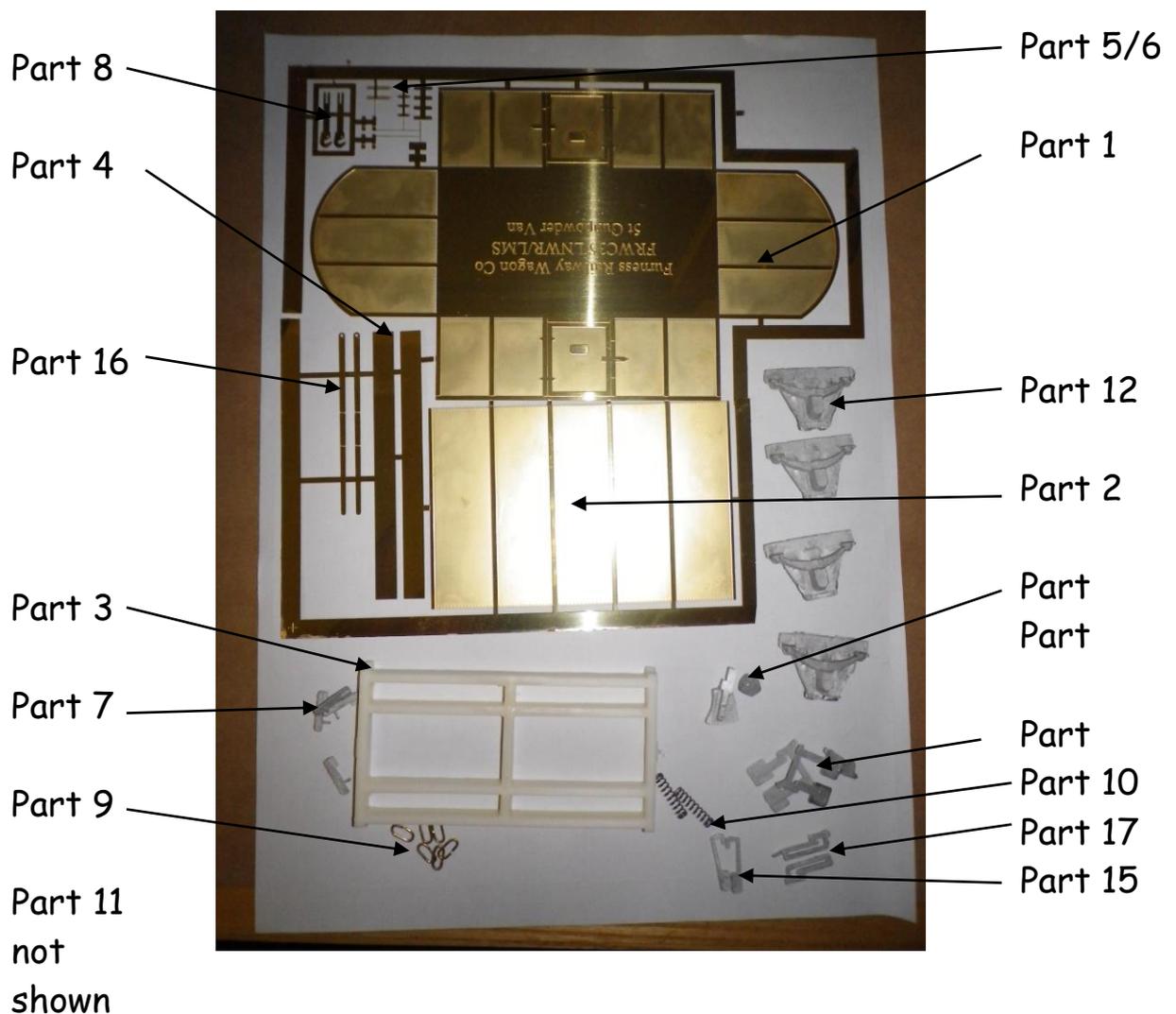
London North Western Railway/LMS

6ton 1878 Gunpowder Van

Wheels, paint and transfers required to complete.

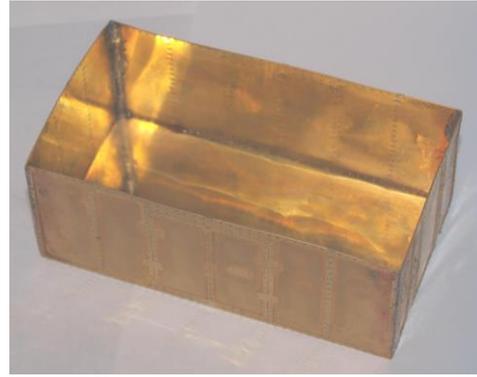
Please note that to aid the folding of the various parts score all the halfetched foldlines that are to be folded.

The Parts.



Van Body Construction.

1. First remove (Part 1) the body from the etch. Punch out the half etched rivets. then, fold up it up and solder the corners.



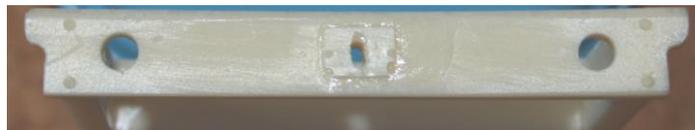
2. Next take part 2 (roof) and roll this can be achieved using a mouse mat and a rolling pin.



- Then solder it onto the body or you may want to solder tabs on to the underside of the roof to enable the roof to be removed and replaced later to allow for paint.

Chassis Construction.

1. Clean up the wagon chassis (part 3) removing any excess material. Drill out the holes, both ends, for the buffers and coupling hooks as shown.



2. Glue the top of the van to the chassis making sure that the ends of the buffer beams are square with the ends of the van.



3. Next attach the sole bar detail plate (part 4).



4. Next attach (part 5) the door hinges and (part 6) door latches to the pads on the door as shown. Then attach the door locking bar, which is made from the wire supplied.

5. Now attach the end support castings (part 7) as shown.



6. Next, assemble the links (part 8) on to the coupling hook (part 9) and push through the slot. Now push the spring (part

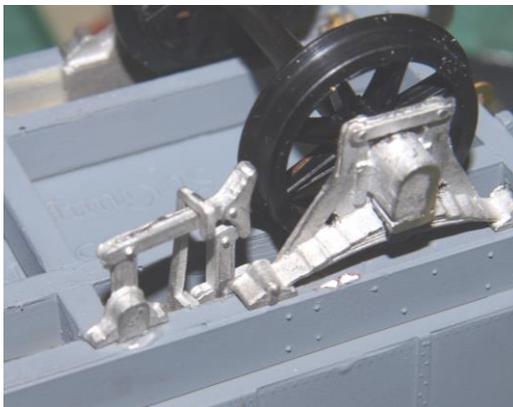
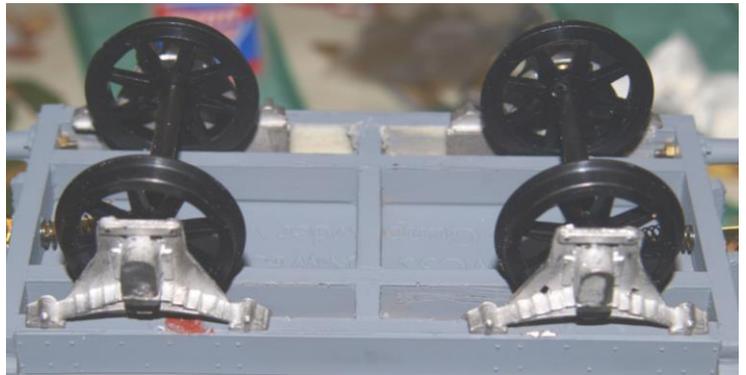
10) over the back of the back of the coupling hook and bend the

tags over to secure the spring in place. Then fix the four buffers (part 11) into the holes in the buffer beam using two part epoxy as shown. Repeat for the other end. Note the buffers have foot pads on them which go to the top

7. Assemble a wheel set, 2 x W-iron's (part 12), 2 x bearing's and 1 x wheel/axle unit, 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 below.



8. 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.



9. Glue the brake gear casting (part 13) and the brake gear pivot casting (part 14) on to one side of the wagon only as shown. Then attach the safety castings (part 15)

Then repeat for the other side of the wagon. Alternative brake casting are supplied with this kit id the modeller wishes to fit them.

10. Next fix the brake lever (part 16) and ratchet casting (part 17) to the sole-bar and to the outside pivot casting as shown below. Repeat for the other side of the wagon



11. Finally fit the roof and paint the model in the livery of your choice.

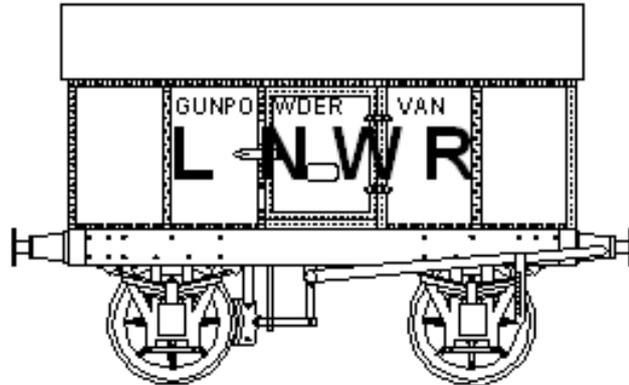


History of the Wagon

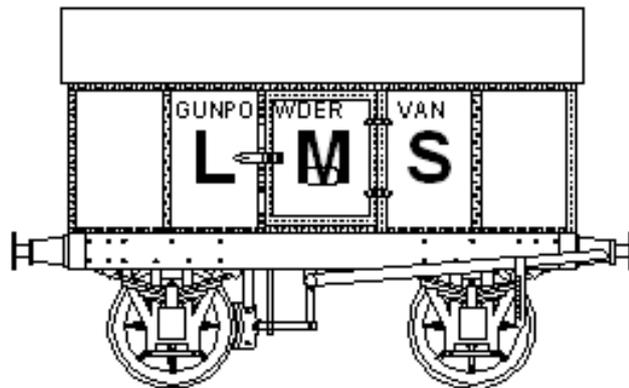
The movement of gunpowder and explosives was quite common on the London North Western Railway system and the railway company had a number of gunpowder wagons to cope with this trade. The company only ever ordered two types of gunpowder van between 1875 and 1923. The first type, this kit, numbered thirty wagons, these were ordered from the company's own wagon works in small batches from 1875. The design of these wagons was built with a wooden chassis with a riveted steel top. The recorded numbers for these wagons were; 40251, 13293, 13548 and 13591. All of the vans were absorbed into the LMS. In LNWR days the wagons would have been painted firstly Vermilion before 1910 and grey from 1910 onwards . The wagons would have also been painted grey from 1923 to 1935 and then bauxite until 1947.

Liveries

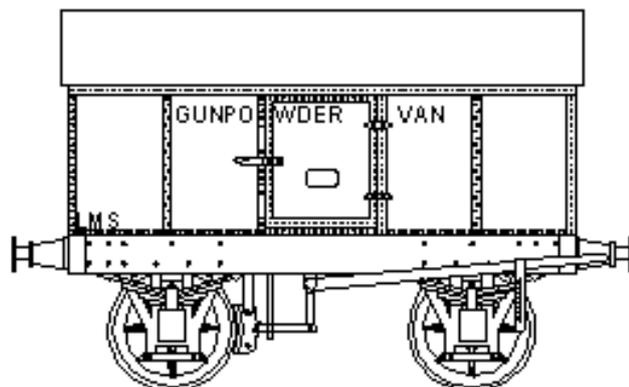
LNWR Livery 1905+



LMS Livery 1923-36



LMS Livery 1936-47



Furness Railway Wagon Co.

LNWR/LNER/BR 6ton 1891 Gunpowder Van

1. Construction Manual,
2. One brass etch.
3. One wagon chassis casting,
4. Four end support castings,
5. Two brake lever ratchet castings,
6. Two brake castings,
7. Two brake pivot castings,
8. Four W-iron/axle box castings,
9. Four buffer assemblies,
10. Two coupling hook springs,
11. Six coupling hook links,
12. Two brake safety bar castings
13. One wooden brake block casting
14. One alternative brake pivot casting.
15. One piece of 0.7 wire.

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

Transfers are available from Dragon Models.