

Furness Railway Wagon Co.

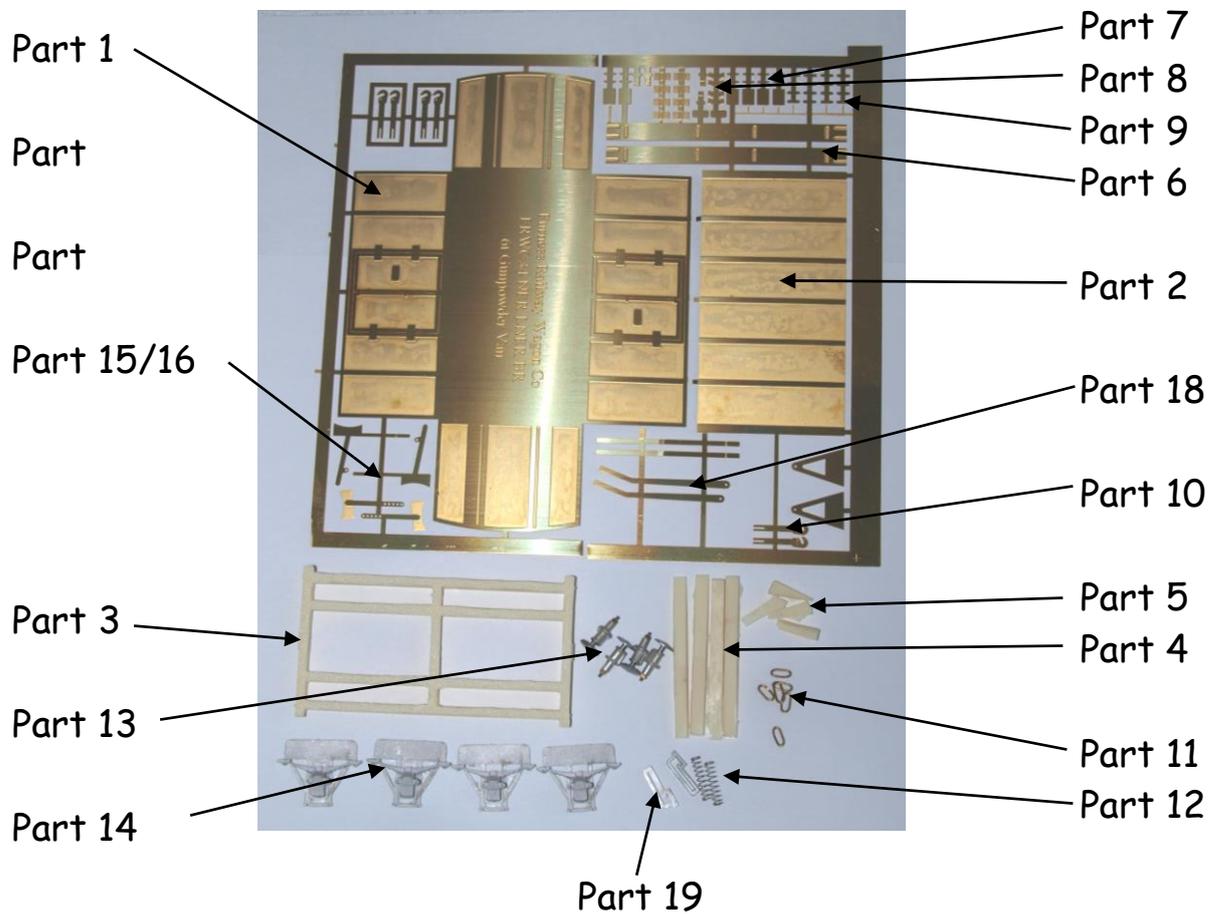
North Eastern Railway/LNER/BR

6ton 1891 Gunpowder Van

Wheels, paint and transfers required to complete.

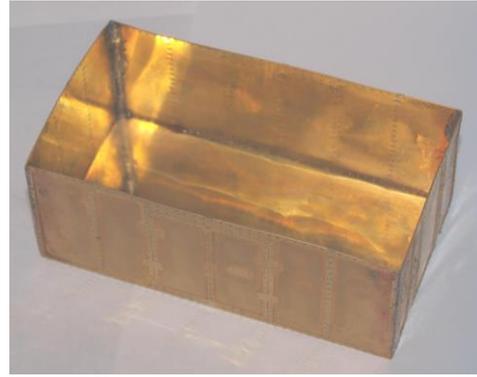
Please note that to aid the folding of the various parts score all the halfetched foldlines that are to be folded.

The Parts.



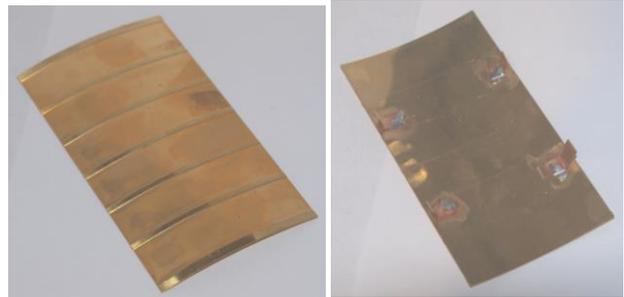
Van Body Construction.

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.

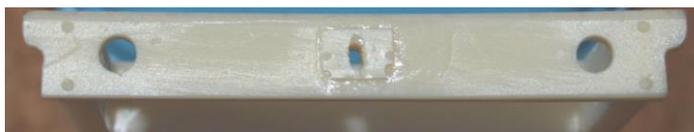
Then solder it onto the body or you may want to solder tabs on



to the underside of the roof to enable the roof to be removed and replaced later to allow for paint.

Chassis Construction.

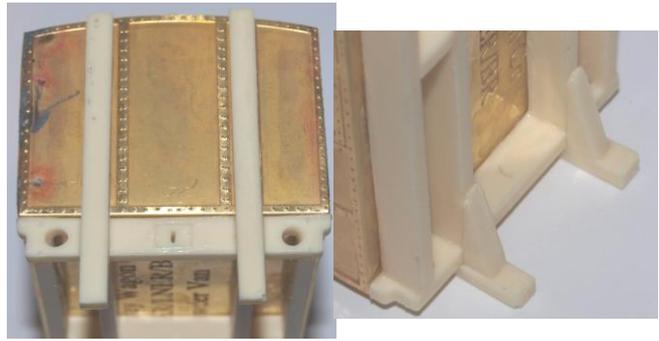
1. Clean up the wagon chassis (part 3) removing any excess material. Drill out the holes, both ends, for the buffers and coupling hooks as shown.



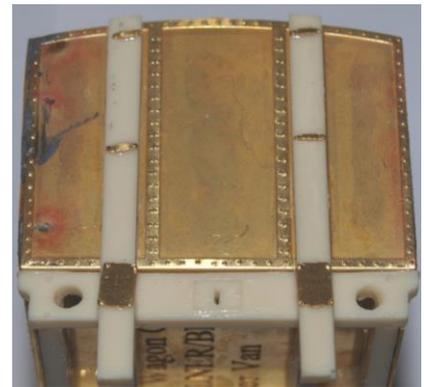
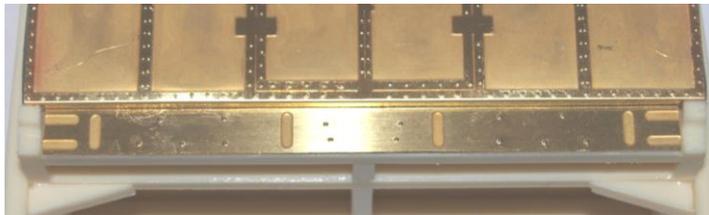
2. Glue the top of the van to the chassis making sure that the ends of the buffer beams are square with the ends of the van.



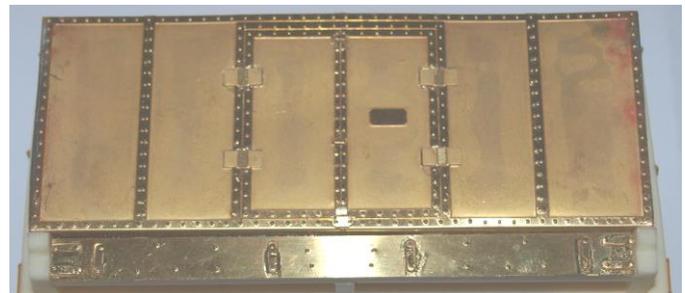
3. Attach the end beams (part 4) and end beam supports (part 5) as shown. Once secure file off the tops of the beams so that they are flush with the curve of the end.



4. Next attach the sole bar detail plate (part 6) and small detail plates (part 7) to the e



5. Next attach (part 8) the door hinges and (part 9) door latches to the pads on the door as shown. Then attach the door locking bar, which is made from the wire supplied.

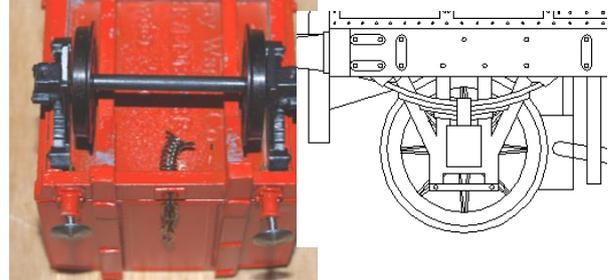


6. Next, assemble the links (part 10) on to the coupling hook (part 11) and push through the slot. Now push the spring (part 12) over the back of the back of the coupling hook and bend the tags over to secure the spring in place. Then fix the four buffers (part



13) 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

3. Assemble a wheel set, 2 x W-iron's (part 14), 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.

4. 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.



5. Solder the brake block blanks (part 15) to the detail overlays (part16).

6. Glue the brake gear assembly on to one side of the wagon only as shown.



7. Take the V-hanger (part 17) and glue into position

on the inside of the sole-bar and line up with the brake block assembly.

8. Next fix the brake lever (part 18) and ratchet casting (part 19) to the sole-bar and to the outside V-hanger as shown below.



9. Repeat stages 9-11 for the other side of the wagon
10. Finally fit the roof and paint the model in the livery of your choice.



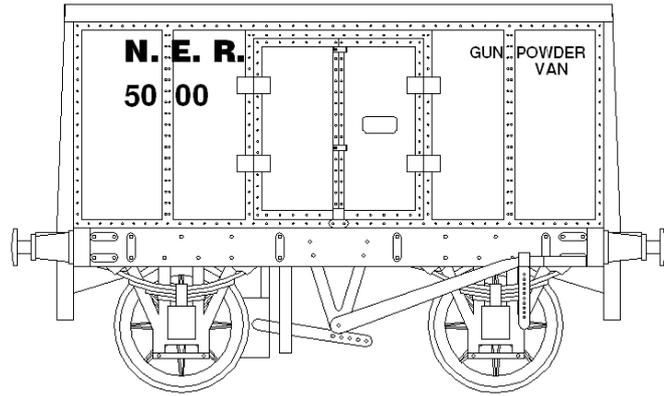
History of the Wagon

Although the movement of gunpowder and explosives was quite common on the North Eastern Railway system, the railway company only had a very small number of gunpowder wagons. The company only ever ordered three types. The second type, this kit, numbered eight wagons, was ordered from the company's own wagon works at York from 1891. The design of these wagons was built with a wooden chassis with a riveted steel top. These wagons were different as they had wooden beams on the end to allow them to buffer up to the chaldron coal wagons common in the north of England. . These wagons were supplemented by another eight wagons built to a similar design but with a higher roof line.

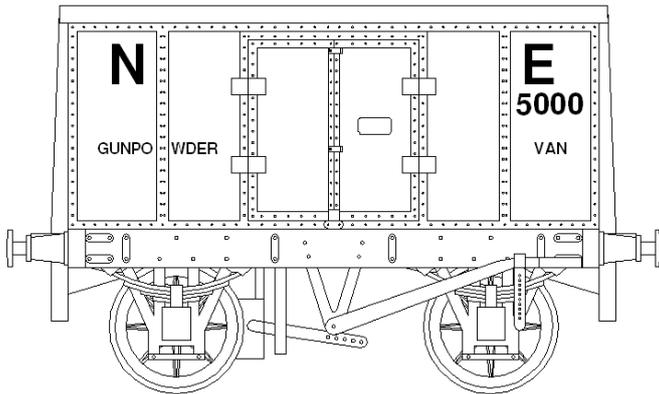
The recorded numbers for these wagons were; 3225, 5000, 12683, 15907, 31923, 39871, 39872 and 61993. All of the vans were absorbed into the LNER but only one managed to last to 1947. In North Eastern Railway days the wagons would have been painted firstly Vermilion. The wagons would have also been painted grey from 1923 to 1935 and then bauxite until 1947. It's unlikely that the sole survivor would have got a repaint before it was withdrawn.

Liveries

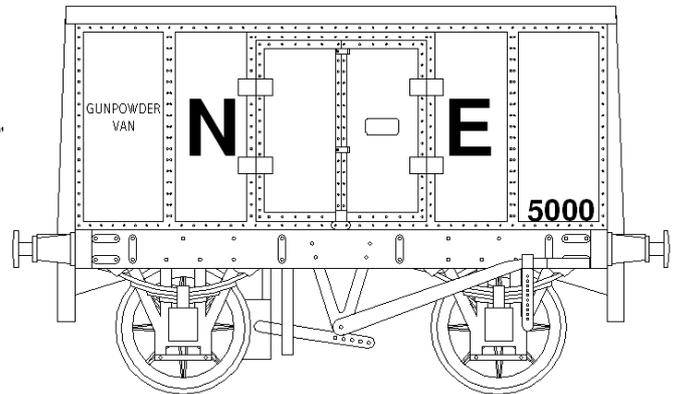
NER Livery
Circ 1881



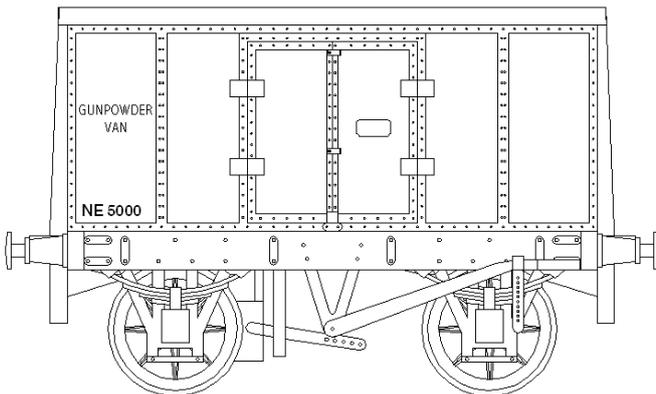
NER Livery
Circ 1911



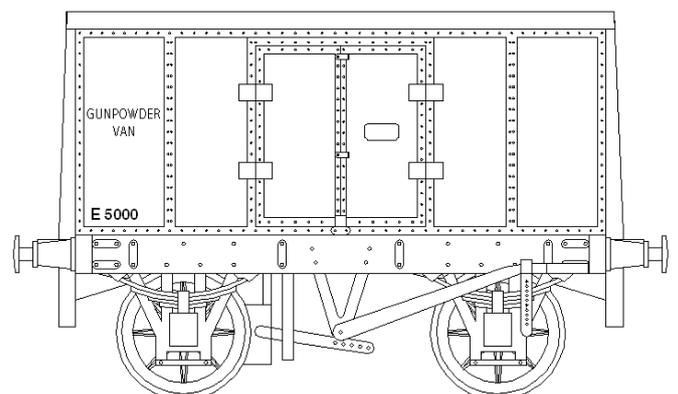
LNER early Livery
Circ 1923-36



LNER Livery
Circ 1936-47



BR early Livery
Circ 1947-52



Furness Railway Wagon Co.

North Eastern Railway/LNER/BR 6ton 1891 Gunpowder Van

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

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

Transfers are available from Dragon Models.