

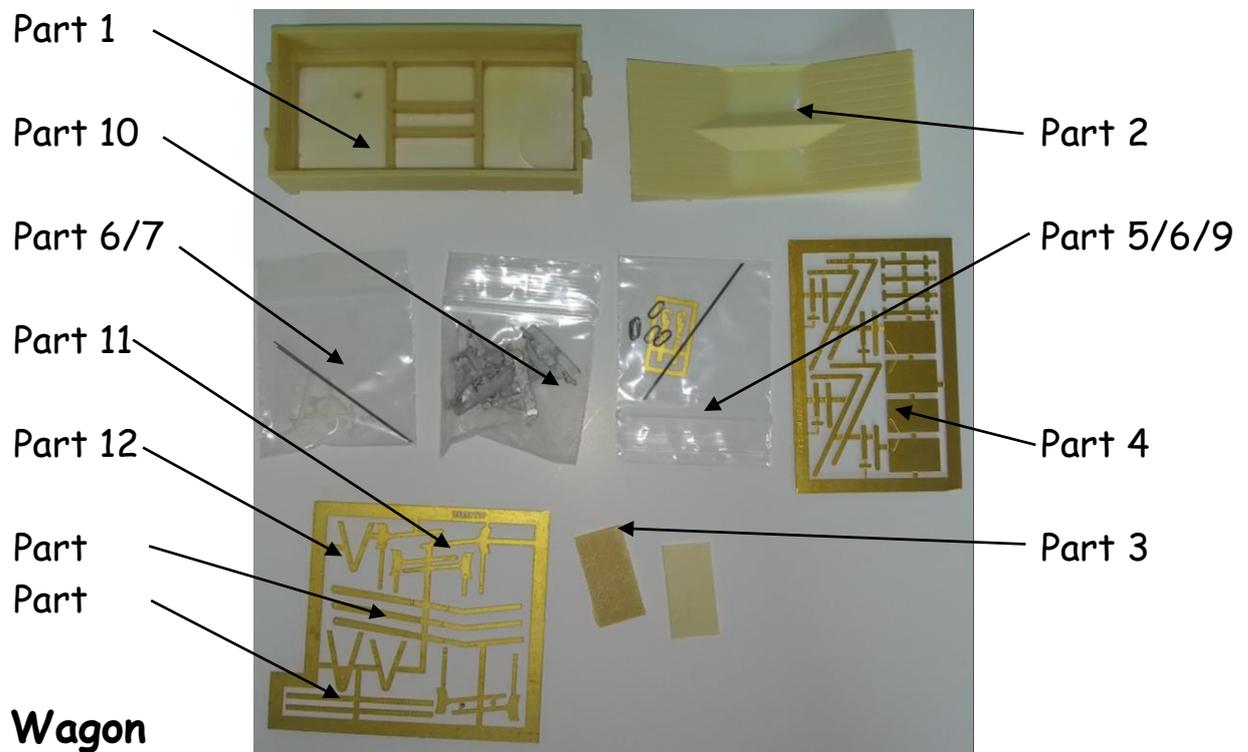
Furness Railway Wagon Co.

Furness Railway/LMS. 10ton 4PLK Hopper Wagon

Wheels, paint and transfers required to complete.

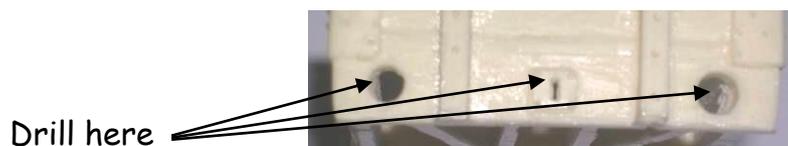
Please note that to aid the folding of the various parts score all the halfetched foldlines that are to be folded.

The Parts.



Construction.

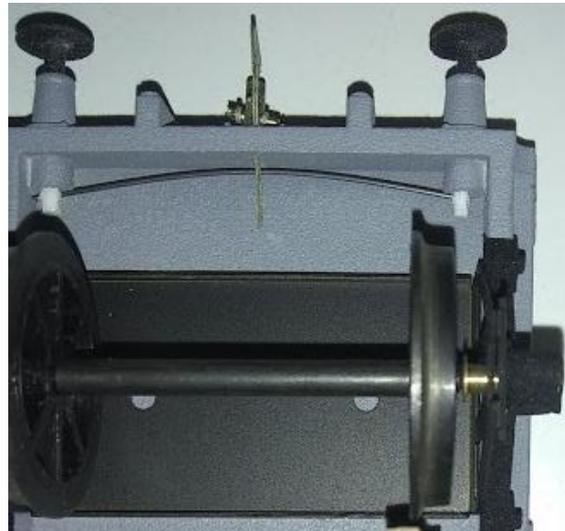
1. Clean up the wagon body (part 1) by removing any excess material.
2. Drill out the holes, both ends, for the buffers and coupling hooks as shown.



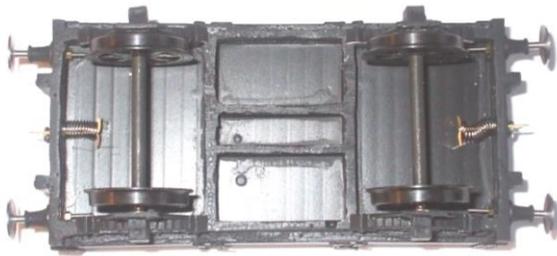
3. Now fit the hopper casting (Part 2) and the hopper doors (Part 3)



4. Next punch out the rivets on the strapping etch (part 4) and glue to the wagon as shown.
5. Next, assemble the links (part 5) on to the coupling hook (part 6) and push through the slot. Then fix the four buffers guides (part 7) into the holes in the buffer beam using two part epoxy. Next open up the holes in the ends of the buffers heads (part 8) with a 0.5mm drill. Now push in the buffers through the guilds. Next push the spring wire (part 9) through the hole in the hook closest to the back of the coupling hook and through one of the buffer heads. Then slide it back and into the second buffer head. As shown. Repeat for the other end.



6. Assemble a wheel set, 2 x W-iron's (part 10), 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 on the drawing.



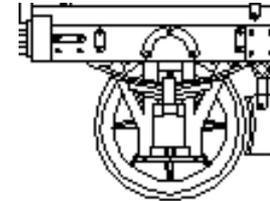
7. Repea

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the

other wheel set. Use a straight edge across

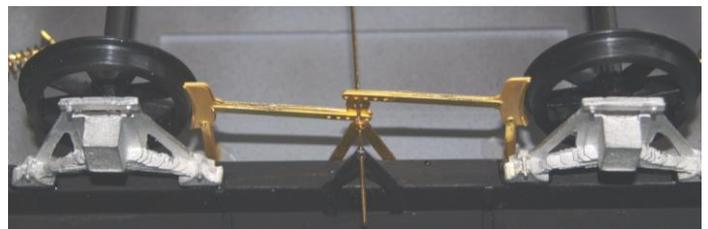
the back of the wheels to aid getting these parallel and square to the chassis.



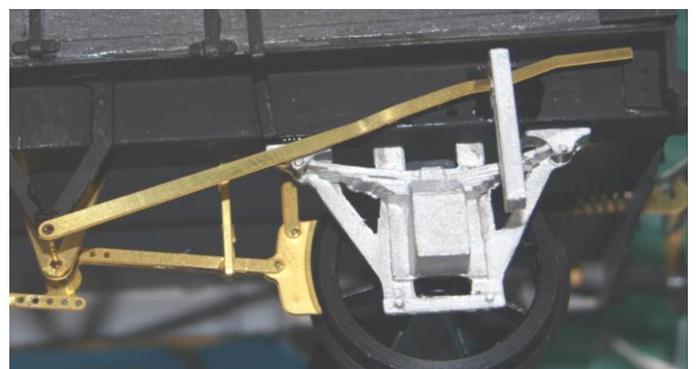
8. Laminate the brake block etch (part 11) Then glue the brakes etch to the inside of the sole-bar as shown making sure that the brake block does not foul the wheels.



9. Fit the brake 'V' hangers (Part 12) to the sole bar lining them up with the brakes.



10. Now fold up the brake ratchet (part 13) and fit to the outside of the sole bar



11. Next fix the brake lever (Part 14) to the sole-bar and to the outside of the brake gear pivot as shown.

12. You are now ready to paint the model in the livery of your choice.



History of the Wagon

This kit represents the standard Furness Railway Co.'s 10 ton 4PLK Hopper Wagon. 403 were built between 1897 and 1900, the first 353 being built in the company's own workshops and the last 50 coming from Ashbury's.

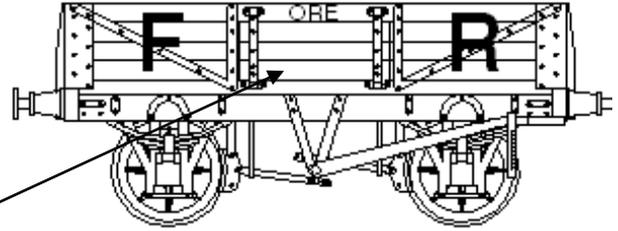
The wagons were rated at 10 tons and mainly used to transport coal limestone and Iron ore around the railway system of the north of England and southern Scotland.

Known wagon numbers, 308 to 342 and 7484 to 7533. Most of the wagons were absorbed into the LMS but only a few would have been in service by the end of 1946. It is possible that some of these wagons managed to last into early British Railways. In Furness Railway days the wagons would have been painted grey. There is no specific shade of grey mentioned by the Furness Railway Company but, as its headquarters were at Barrow-in-Furness, home to Vickers, Son & Maxim's, Naval Shipyard, battleship grey

would be a good guess. The wagons would have also been painted 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.

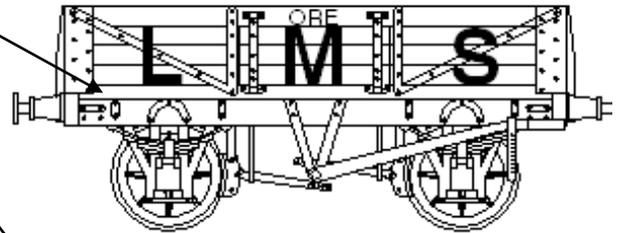
Liveries

Furness Railway
Livery Circ 1900

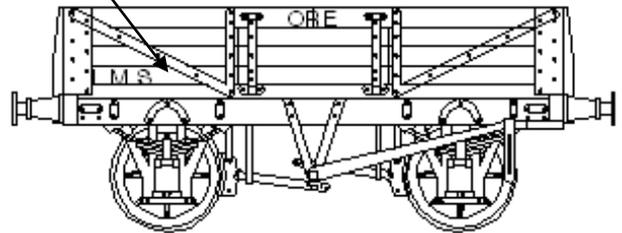


Numbers

LMS early Livery
Circ 1923-36



LMS Late Livery
Circ 1936-47



Furness Railway Wagon Co.

Furness Railway/LMS 10ton 4PLK Ore Wagon

1. Construction Manual,
2. One wagon body casting (resin),
3. One brass strapping etch,
4. One brake block casting,
5. One brake lever casting,
6. Four W-iron/axle box castings,
7. Four buffer assemblies,
8. Two coupling hook springs,
9. Six coupling hook links,
10. One set of etched coupling hooks.

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

Transfers are available on the HMRS LMS pre-grouping sheet.