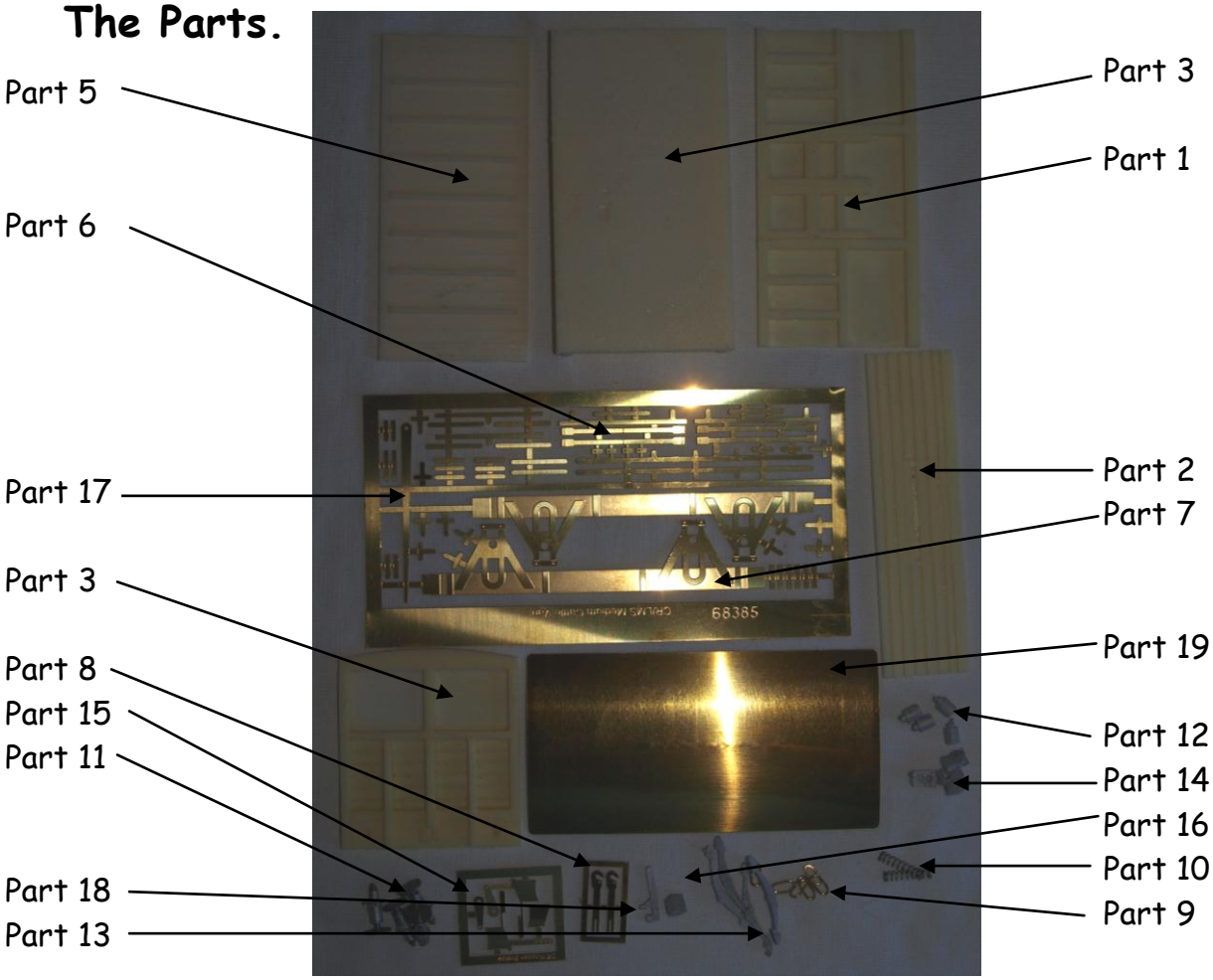
Furness Railway Wagon Co.

CR/LMS

6ton Medium Cattle Van

Wheels, paint and transfers required to complete.

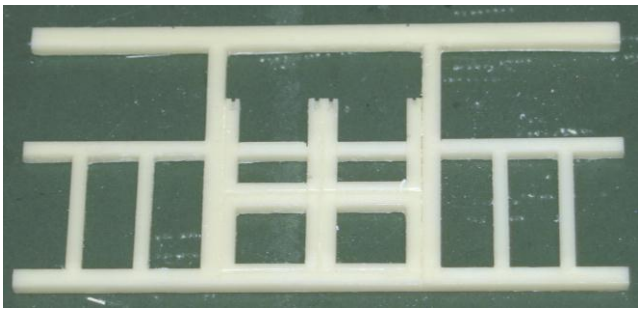
The Parts.



Assembly of van.

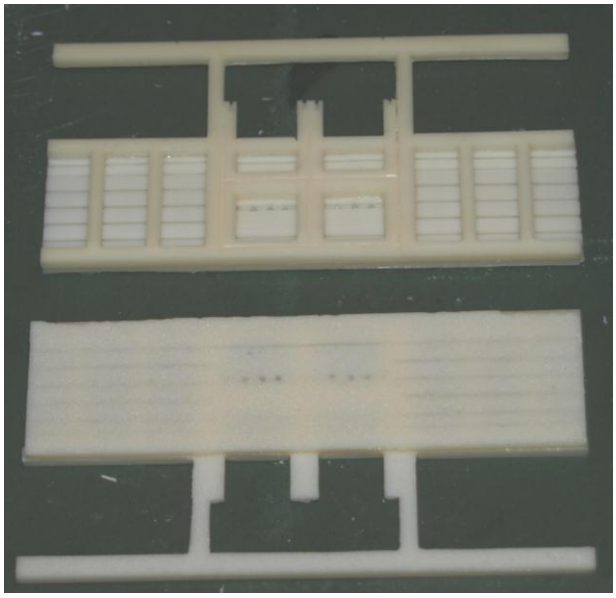
1. Wash and clean up the castings making sure that the castings fit together before gluing.

2. Take the outer side castings (Part 1) and remove all of the



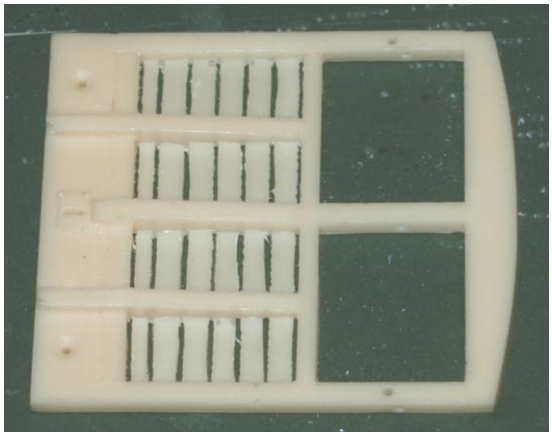
flash from the in-sides of the casting as shown. This is there to protect the casting in transit as it is very week until the structure is complete.

3. Next attach the inner side casting (part 2) so that the notches on the bottom of both casting line up. NB don't remove the flash from the inner casting until the two castings are firmly attached to each other as is there to give you the correct spacing for the planks.



4. Next remove the flash from between the planks. This is best done by chain drilling through the flash and then carefully removing the remanding flash with a sharp craft knife.

5. Take the end castings (Part 3) and remove all of the flash from the insides of the casting as shown. This is there to protect the casting in transit as it is very week until the structure is complete.

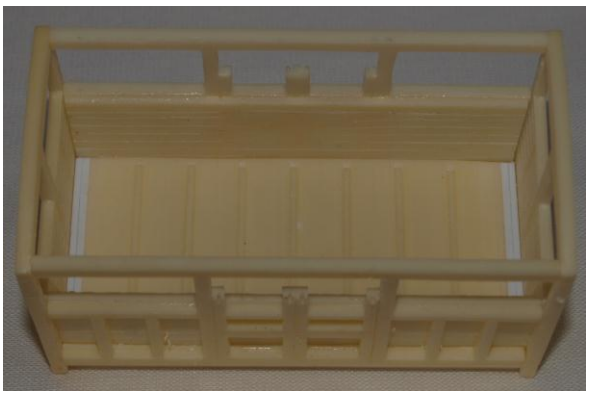


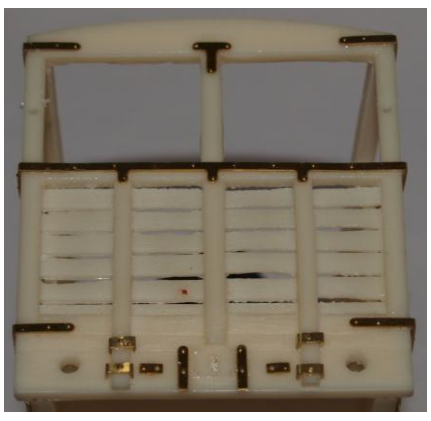
6.Next drill the holes in the up-right beams to enable wire to be threaded in later.

7. Next drill out the holes in the buffer beams for the coupling hooks and the buffers.

8. Now it is a good idea to dry fit the sides, ends, chassis (part 4) together. Make sure that the sides fit between the ends and flush with the chassis. Once you are happy with the fit, fix in to position with superglue.

9. Then fit the floor (Parts 5) again make sure that it fits between the sides and ends. This is large and will need trimming to fit.

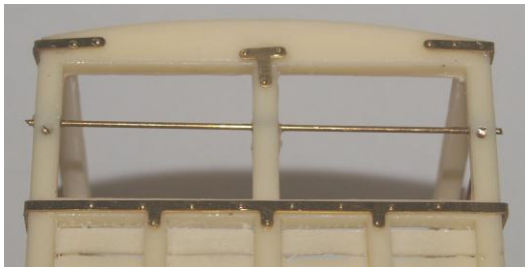




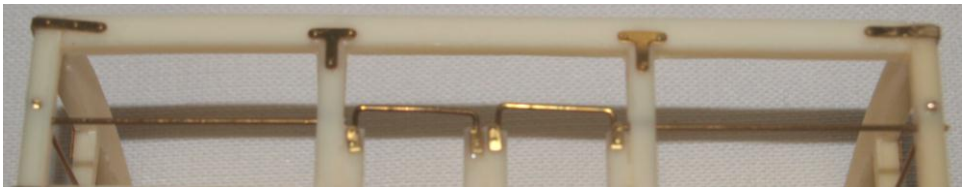
10. Next fit the etched strapping (part 6), as shown. Care is required not to get to much glue on the

strapping as this could cover the strapping.

11. Next punch out the rivets on the sole bar etch (part 7) and fold over the axel box retaining bars at the bottom then glue to the sole bar as shown.

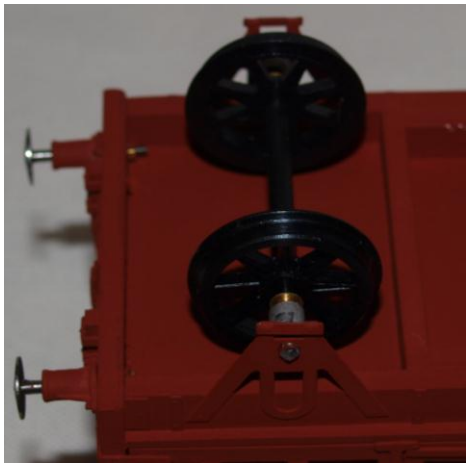


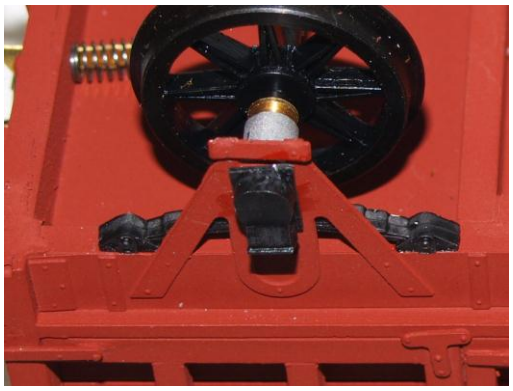
12. Next fit the wire into the hole that you previously drilled in the sides and ends.



13. 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.

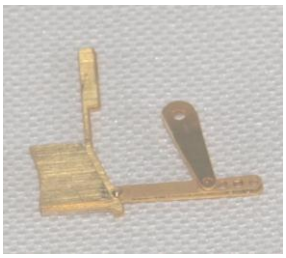
14. Assemble a wheel set, 2 x bearing extension castings (part 12), 2 x bearing's and 1 x wheel/axle unit. To do this, firstly, drill out the holes in the bearing extension castings the bearing sits approximately 1.5mm proud of the face of the casting. Then glue one of the bearing extension castings into the hole in the etched W-iron. Once this is solid assemble the wheel set with its bearing together with the other bearing extension casting. Slide the assembly into position and glue the other bearing extension casting in position making sure that the wheels are free running. There is no need to glue the bearings into the bearing extension castings. Repeat for the other wheel set.



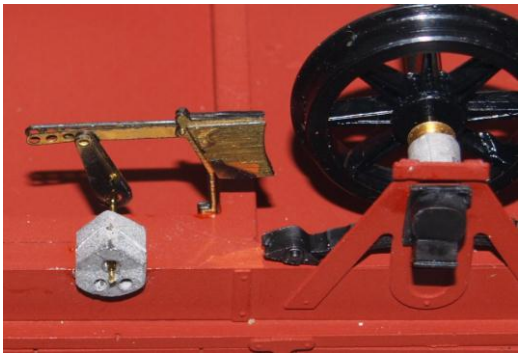


15. Now fit the spring castings (part 13) to the sole bar and the back of the W-irons and the axel box covers (part 14) to front of the W-irons.

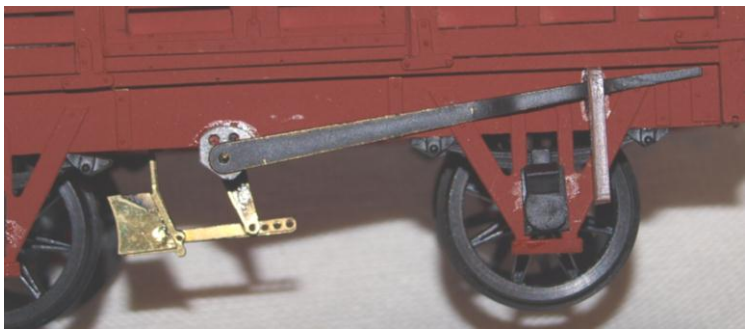
16. Next take the etched brakes (part 15) punch out the rivets and solder together. This can then be mounted on to the chassis next the wheel as shown.



17. Place the brake gear pivot casting (part 16) against the bottom of sole-bar and next to link arm of the etched brake assembly. Glue the casting into position using two part epoxy resin, this will give you opportunity for adjustment.



18. Next fix the brake lever (Part 17) and ratchet casting (part 18) to the sole-bar and to the out side of the brake gear pivot casting as shown.



19. Finally fit the roof (part 19), making sure that the end line up and are square. Paint the model in the livery of your choice.

History of the Wagon

This represents the Caledonian Railway's First standard Medium cattle van. Built in batched between 1880 and 1890, a few were taken into LMS ownership in 1923 but all would have been scrapped by 1930.

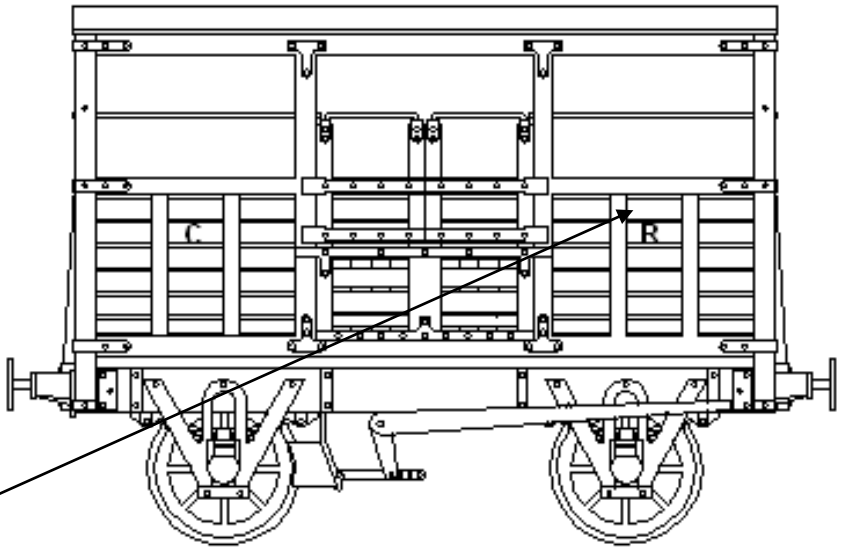
These vans would have been a common site in goods trains across Scotland, Northern England and may have ventured further afield. They would have been marshalled at the front of goods trains so that the shock to the cattle was less.

When originally built the vans would have been painted red oxide with iron work picked out in black. Under the LMS vans would have been painted wagon grey.

No running numbers are known at this time.

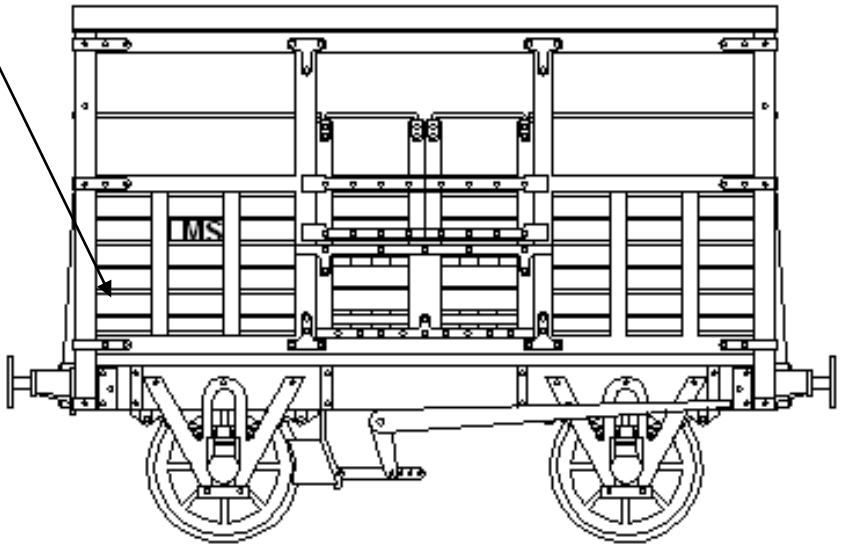
Liveries

CR Livery
Circ 1914



Numbers

LMS Livery
Circ 1923-1930



Furness Railway Wagon Co.

R/LMS

6ton Medium Cattle Van

1. Construction Manual,
2. One rolled etched roof.
3. One Brass Strapping,
4. One brake etch,
5. One Brake ratchet Castings
6. One Brake pivot etches
7. Four outside axle box castings,
8. Four inside axle box castings,
9. Four spring castings,
10. Two wagon out side castings (resin),
11. Two wagon inside side castings (resin),
12. Two wagon end casting (resin),
13. One wagon floor Casting (resin),
14. One wagon chassis Casting (resin),
15. Four buffer assemblies,
16. One coupling hook etch,
17. Two coupling hook springs,
18. Six coupling hook links.
19. Two lengths of brass wire.

We recommend Haywood Railway's 3'1" split spoke wheels.
Transfers are available from HRMS.