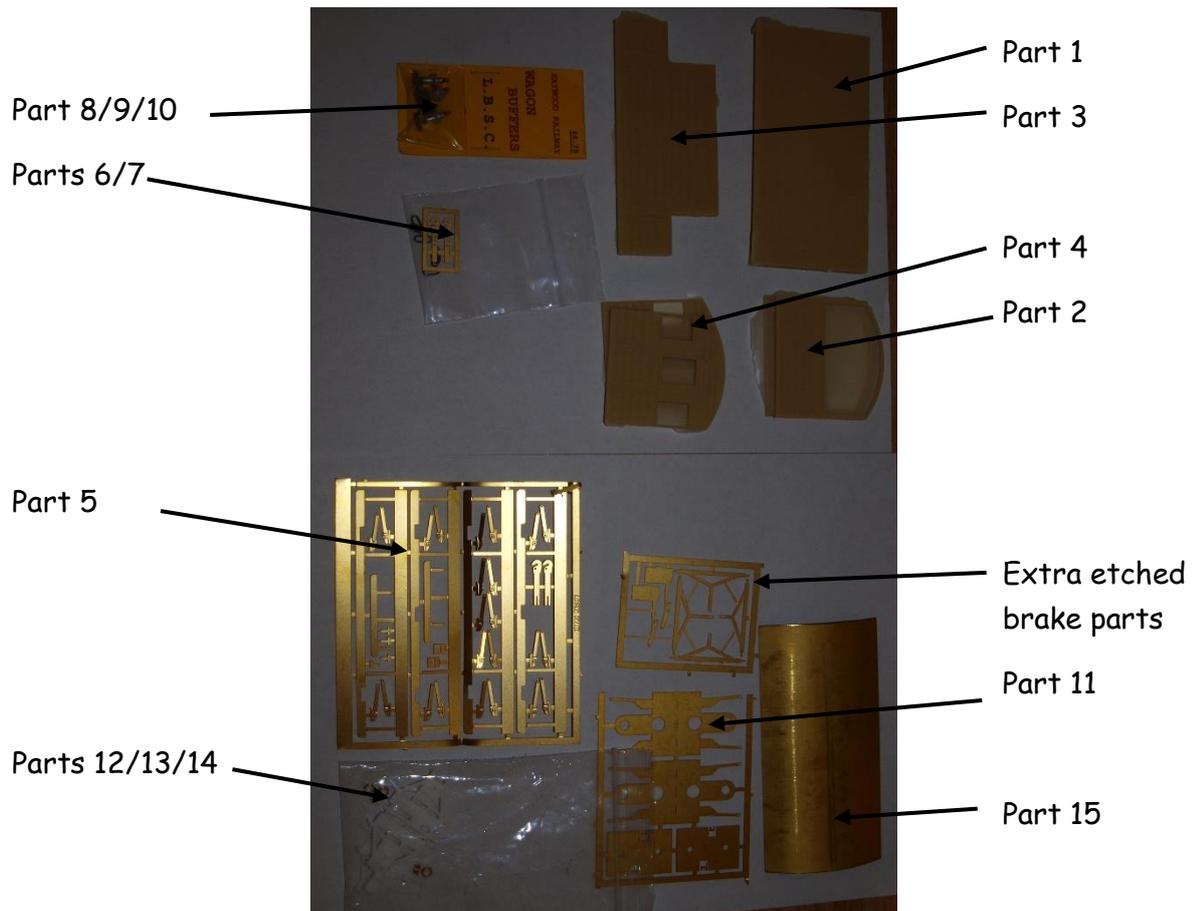


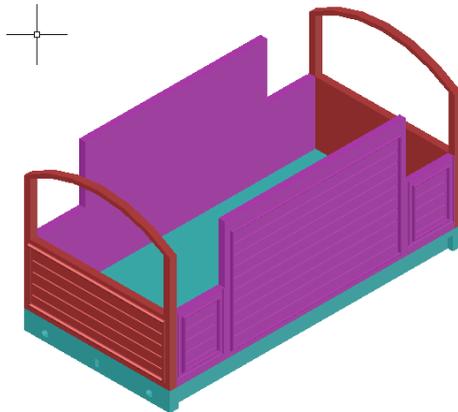
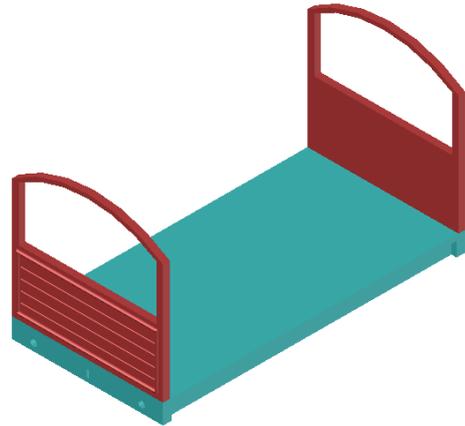
# Furness Railway Wagon Co LBSCR 9-10-12-20 ton Billington Brake van

## The Parts



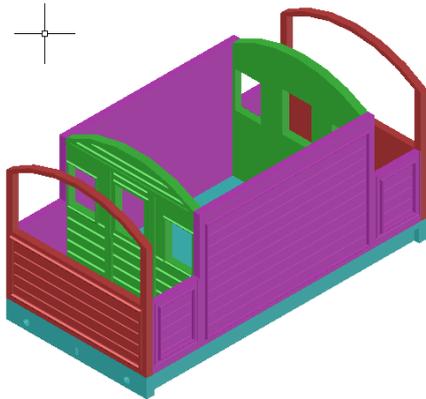
## Construction

- (1) Wash all resin castings as this will remove any excess mould reliece agent.
- (2) Take the chassis casting (part1) and attach the ends (part 2)



- (3) Attach the sides (part3) to the ends and chassis.

- (4) Then add the partitions (part 4)



- (5) Take the sole bars (part 5) and attach the running boards. There two types 4 wheel and 6 wheel. Once these are secure, attach the assembly to the body assembly

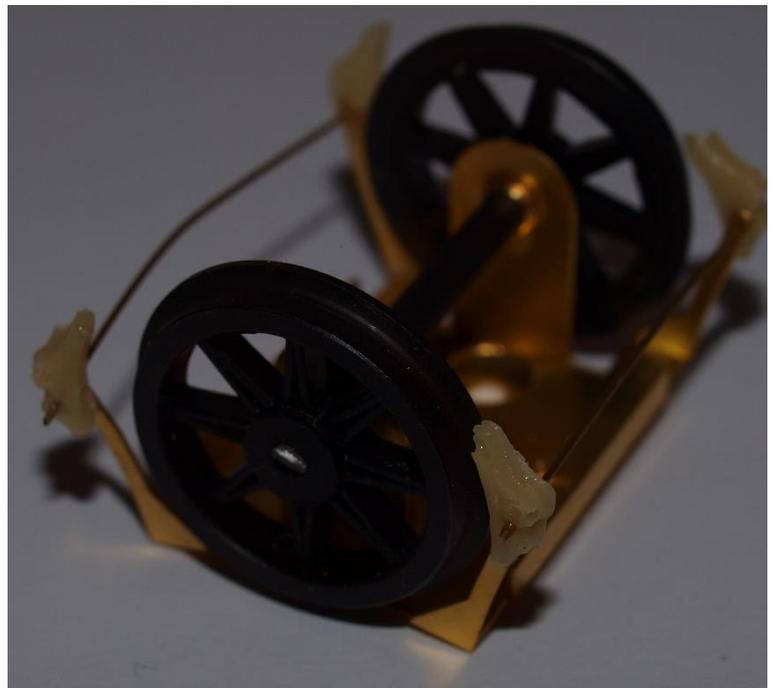


(6) Assemble the coupling hooks (part 6) and the links (part 7) then push the hooks through the hole. Next add the buffers guides (part 8) in to the holes the van ends.



Next add the buffers heads (part 9) and spring wire (part 10). Then push the head through the holes, thread the wire into the holes on the buffer heads and the coupling hooks.

(7) Now fold up the brass brake etch (part 11) and attach the bearings (part 12). You will need one of these assemblies per axle



(8) Cut the ends of the axles off so that the ends of the axles are flush with the front face of the wheels.

(9) Now remove one wheel per axle and thread the axle through the bearings and then re attach the wheel.

(10) Next fit the resin brake blocks (part 13) so that they don't foul the wheels.

(11) Now fit the wheel assemblies onto the chassis so that they line up with the rivert detail and gaps in the running boards.



(12) Fit the cosmetic axle boxes (part 14) to the inside of the sole bars so that they line up with the wheels and the gaps in the running boards.

(13) Fit the hand rails and door knobs



(14) fit the roof (part 15)

(15) Finally Paint in the livery of your choice



## History

### 9-10-12 ton brake Vans

The LBSCR built 120 of these vans between 1888 and 1908. Designed by Robert Billington to be an improvement on the vans built by Stroudly.

7 9ton vans, 89 10ton vans and 14 12ton vans were taken into Southern Rly ownership in 1923.

The last van of the type was withdrawn by British railways in 1950 it has served as the branch brake on the Hayling Island branch.

### 20ton brake vans

The LBSCR 20 built between 1900 and 1902. These vans were basically an up rated standard Billington van. The increase its braking power an extra set of wheels. These vans were built by outside contractors. the 1900/01 batch built by Cravens and the 1902 batch being built by Birmingham RC&W.

Van No.280 was withdrawn before 1923 the other 19 vans passed to Southern Rly ownership.

The last 20ton van was withdrawn by the Southern Rly in 1943

### Running numbers

LBSCR 9-10-12ton 71, 260, 264,-5, 301

SR 9-10-12ton 55753-50,

LBSCR 20ton 273-284, 303-310

SR 20ton 55878-55896

## Livery Details

Before 1905 all of these vans were painted light grey with small letters. Sometimes the lettering was shaded black. The Ends of the vans were painted red.

Between 1905 and 1923 the vans would have been repainted in a darker shade of grey with larger letters. The Ends of the vans were painted red.

From 1923 the vans were repainted in SR brown. Those vans that survived until 1947 would have repainted in BR light grey.

## LBSCR/SR/BR Brake van Checklist

1x Chassis casting  
2x end castings  
2x partition castings  
1x strapping etch  
1x brake etch  
6x axle boxes  
1x Buffer pack

- 4x buffer heads
- 4x buffer guides
- 2x spring wire
- 1x coupling hook etch
- 6x links

1x Rolled brass roof  
brass wire  
2x hand Brake castings  
8x brake block castings

Transfers are available from HMRS: Southern Railway Wagon sheet for both LBSCR liveries and both Southern Liveries; British Railways Wagon Sheet

Wheels for these vans are 3ft1 solid spoked (LBSCR/SR) or 3ft1 3 hold disc (SR/BR). These are both available from Haywoods or Slaters.