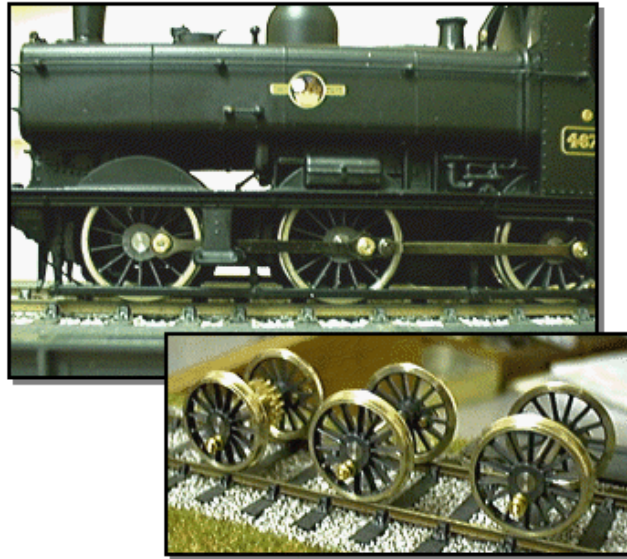


Ultrascale Data Sheet

Issue: 001-060830

Bachmann class 8750 'Pannier Tank'



The above pictures show the completed E.M. conversion and a E.M. set of drop-in wheels.

Fitting Instructions:

First the wheels in the Bachmann Pannier tank were removed and the connecting rods taken off and put to one side for use latter. Then the rear set of wheels were dismantled so the plastic gear could be checked for size and number of teeth. We then manufactured a new gear in brass, you may ask yourself why we did not use the original plastic gear, this will become clear later.

We then manufactured the wheels, these are GWR 4' 7 1/2" with a 10" crank throw. These wheels having a bore size to suit a 3.0mm diameter axle. Three axles were then made to the correct length to set the wheels to E.M. gauge. The new brass gear was then pressed onto one of the axles, this gear being slightly offset from the centre of the axle. Six new crank pins with 2.0mm diameter tubes were then assembled onto the wheels and the wheels fitted to the axles and quartered.

The original connecting rods were then fitted to the new wheel sets. This assembly was then fitted back into the Pannier tank and the base plate replaced. Using a craft knife some of the plastic had to be removed from the back of the pipe work running under the footplate as the crank pins now fouled on these pipes at the new gauge. The Pannier tank was then test run with no problems.

Now back to the reason a new brass gear was made, this means that complete wheel sets like the ones pictured above could be supplied. This leaves the modeller to only fit the connecting rods and drop the new wheels into the locomotive to convert it.