

Brassmasters

**Scale
models**

www.brassmasters.co.uk

**LMS Rebuilt Patriot/Royal Scot
Detailing kit for Hornby models**

**Prototype notes and
instructions**

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Detailing kits for Hornby Rebuilt LMS Patriot and Royal Scot 4-6-0s

The Brassmasters detailing kit for the conversion of the Hornby Rebuilt Patriot and Royal Scot locomotives contains a mixture of 0.25mm etched brass and white metal parts allowing either model to be super-detailed. Please see the parts list.

We assembled the conversion of the Patriot shown in these instructions without removing the body from the chassis, but we would recommend removing the body from the chassis because some delicate parts around the plastic brake gear are fragile and may be broken.

There is no need to fit all the parts and some may be omitted if required dependent on the skills of the modeller. All parts were fixed to the model with a combination of cyanoacrylate medium thick glue, 5min epoxy resin and 140 degree solder using Carrs green label flux. White Milliput was used to fill the gap above the fire iron tunnel. White was used for illustration purposes but we believe there may be a black Milliput available.

It should be noted that if converting the model to EM or 18.83 scale the splashers and splasher front must be extended to allow the converted chassis to fit the body. We have included the parts needed to do this.

On the locomotive, removal of the chimney, top feed, dome, smoke deflectors, front buffer beam and tool box/seat on the right hand side of the cab presented no problems. However the reversing lever mechanism on the left side of the cab proved to be stubborn and refused to be moved - you may have better luck. It was intended to open up the cab front to allow the reversing lever to protrude into the cab. The cab doors also presented a challenge as the supporting brackets for the doors wanted to detach themselves from the cab sides and needed re-gluing. (see note refitting cab doors).

The tender axle boxes and springs were removed with a dremel and small burr, and the right inside tender side was removed with a small drill bit and finally carved to shape with a scalpel. The tender inside vents were fitted after again removing a small amount of plastic from the inside sides.

We did not think it necessary and have not provided a blow by blow account of the conversion - the attached photographs are self-explanatory.

The detailing may be carried out in any order; we assembled all the sub assemblies first and the following notes and tips supplement the photos.

Smoke deflectors 0.33mm wire shaped into a half round section is fitted (soldered) to the front, top and rear of the deflector. At this point we formed the unique shape of the deflector using the removed original deflector which is an accurate shape. Again solder was used to fit all the backing plates and handrail clips. 0.33mm wire was used to locate the deflectors into the footplate and holes were drilled in the footplate at the original fixing point to

match the locating wires. Finally the hand grab covers (white metal) were cyanoed in place.

Top feed cover The pipes to the top feed need extending to go underneath the top feed cover, a small piece of 20amp wire was used for this purpose.

Front buffer beam The front buffer beam is in two pieces front and back, press out the rivets as required on the front beam. It is necessary to pack out the front of the chassis with two piece of scrap etch (0.50mm) to ensure the buffer beam sits square.

Cab floor The cab floor is designed to be adjustable and the front requires fitting to shape around the fire box and reversing lever mechanism, the gap between the cab and tender is dependent on the modeller and the overhang from the cab is adjustable.

The cab door supports need to be notched at the cab floor level to allow the cab floor to slide into position.

Cab doors The cab doors use a small piece of scrap etch as the fixing point on the cab door supports, we extended the 0.33mm wire to form a claw to wrap around the supports as shown in the photograph. The scrap etch (with the doors fixed in position) was then cyanoed to the cab door supports and when dry a small amount of 5min epoxy resin was then drizzled over the claw and cab door support bracket to strengthen the joint.

Drain cocks Scale drain cocks are included but the fixing holes on the cylinders need to be adjusted using the centre as a guide redo the front and rear holes the rear hole will not be deep as the slide bar rests just underneath the plastic, adjust the length of the locating pip to suit.

During building we damaged the cab handrails and replaced them with 0.33mm wire.

Front Steps Open up the half etched hole only for the Royal Scot steps

We hope you enjoyed detailing your Patriot or Royal Scot class model and appreciate the detail that is now included on your locomotive.

If you have any comments or require any further assistance please do not hesitate to contact us at www.brassmasters.co.uk

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Parts List

0.25mm Brass

- 1 Patriot smoke deflector left and right
- 2 Royal Scot smoke deflector left and right
- 3 Chequered footplate
- 4 Dimple footplate
- 5 Patriot buffer beam front
- 6 Patriot buffer beam rear
- 7 Royal Scot buffer beam front
- 8 Royal Scot buffer beam rear
- 9 Front step back plate x 2
- 10 Step top x 2
- 11 Step bottom x 2
- 12 Cab door right
- 13 Cab door left
- 14 Backing plate
- 15 Clips
- 16 Z bend bracket
- 17 Name plate brackets x 2
- 18 Cab floor
- 19 Reversing lever
- 20 Reversing lever mounting bracket
- 21 Reversing lever front mounting bracket
- 22 Reversing lever forked joint
- 23 Tender back plate
- 24 Riveted strip for riveted tender
- 25 Plain strip for welded tender
- 26 Buffer chequer plate step
- 27 Tender lifting hook base plate
- 28 tender lifting hook
- 29 Sandbox filler base plate
- 30 Tender guard irons
- 31 Bang plate
- 32 Tender coping
- 33 Front splasher top and front face
- 34 Middle splasher top and front face
- 35 Rear splasher top and front face plate
- 36 Various lamp iron brackets

White metal

Locomotive

- Chimney
- Top Feed cover
- Dome
- Sandbox filler caps
- AWS cylinder large
- AWS cylinder small
- Drain cocks

Tender

- Axle boxes x 6
- Springs x 6
- Sieve boxes left and right
- Fire iron tunnel
- Air vents x 2

Other

- 6" x 0.33mm brass wire

