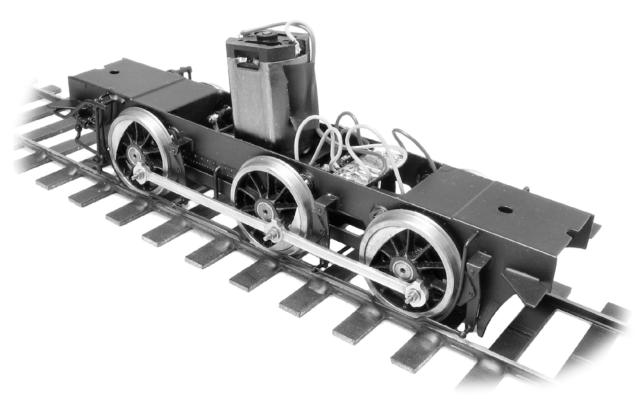
LEGACY KITS & COMPONENTS

- 0 Gauge -

LNER Class J69/1 "Buckjumper" Legacy Kit Parts Identification & Chassis Assembly Instructions



This kit was first produced in 1991. It was an honest, best effort at the time and much appreciated by many satisfied modellers, many were newcomers to 0 Gauge..

Time passed and modellers expectations became more sophisticated along with the range of kits available. This legacy kit was retired from production for many years.

But now its back with a level of extra casting detail that modellers now expect for locos on their layouts. Instructions detail how legacy issues can be addressed with simple hand tools to get the best from the etched components.

We Are Confident Modellers Will Be Delighted With The Results

Parts Required To Complete

3 Sets 4', 10 Spoke Driving Wheels (Slater's Catalogue Numbers 7848NE) Plunger Pickups if desired (Slater's Catalogue Number 7157) Available From Slater's Plastikard, Old Road, Darley Dale, Matlock Derbyshire, DE4 2ER, Telephone 01629 734053.

1833 Motor and 40/1 Gear set, available from Connoisseur Models.

Produced by Family McGeown, 1 Newton Cottages, Nr Weobley, Herefordshire, HR4 8QX, Telephone 01544 318263

LNER Class J69/1 "Buckjumper" Find a Photograph of Your Chosen Prototype Locomotive

You are looking for photos of the twenty locos built to GER designation S56. These were LNER (1924) numbers 7051 - 7090, BR numbers 68617 - 68636. Particularly useful would be some colour photos so you can work out what livery and lettering you require.

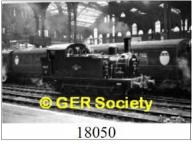
Fortunately the Great Eastern Railway Society have an easy solution to enable you to order digital downloads, at 25p each, from their collection of thousands of images. So you need to visit: https://www.gersociety.org.uk/sales/photograph-sales

Everything is fully explained but briefly you need to download: "all photos by loco class" and you want J69, this is an index of which photo album you can view a thumbnail of the photo and if its what you want, you can note the reference number and fill in the online order form.

Examples of GER Society Photo Album Thumbnails



J69/1 68619 at Liverpool St



J69/1 68619 at Liverpool St



J69/1 68632 at Stratford Loco



J69/1 68626 at New England

Another very useful reference resource is Steve Rowes YouTube build of a J69:

https://www.youtube.com/@Steven_Rowe



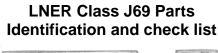
Two Excellent Colour Photos Available on open source Internet

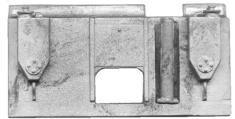


Colour photo: https://www.gersociety.org.uk/images/2023/10/11/68619-liverpool-street-g.png

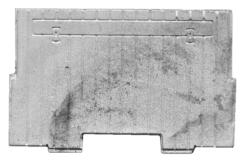


Colour photo: https://www.steve-banks.org/images/historical/CCQ_slides/j69_e8619_1951_4_n_woolwich_1500_1000_72u.jpg

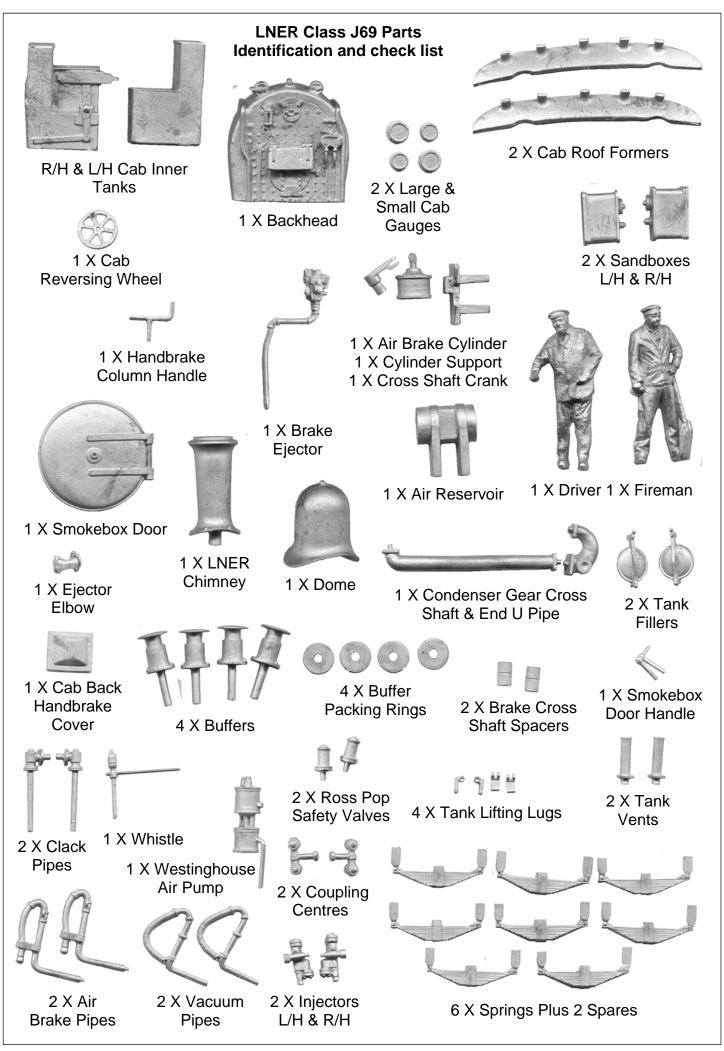




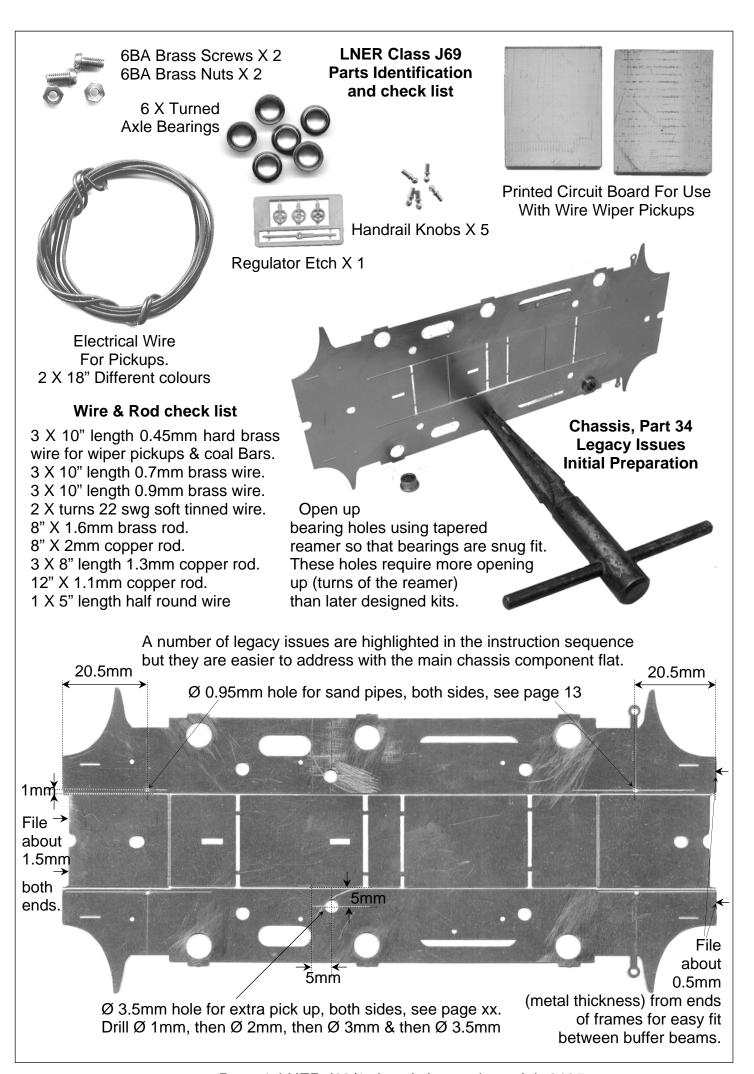
1 X Bunker Front



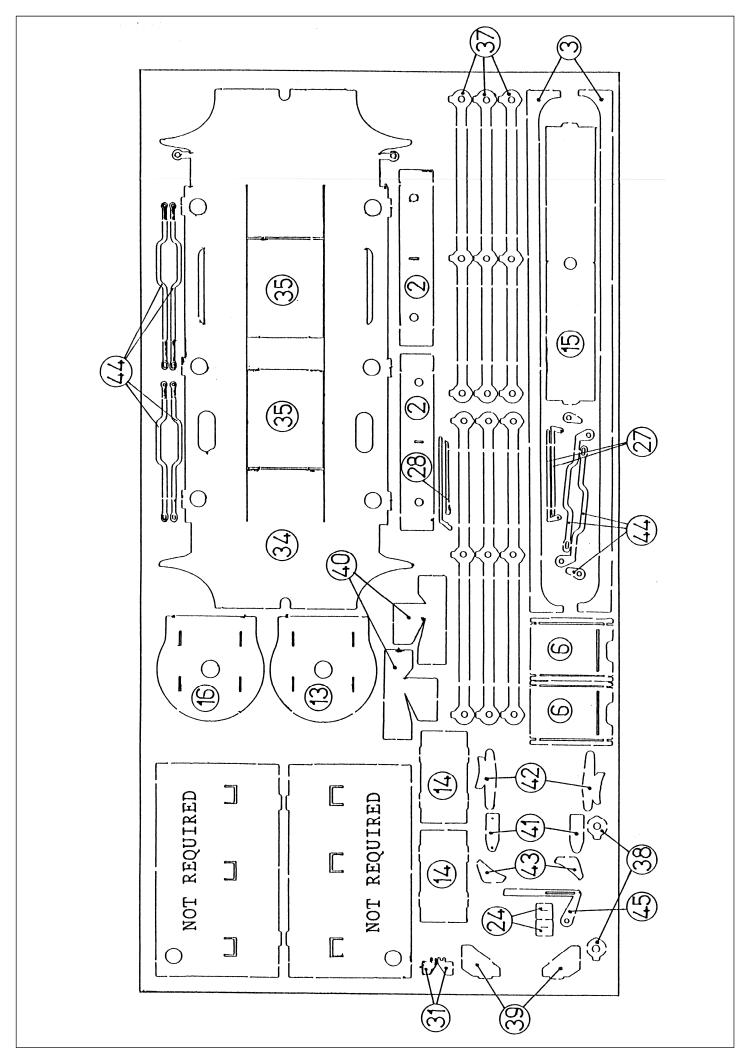
1 X Cab Floor



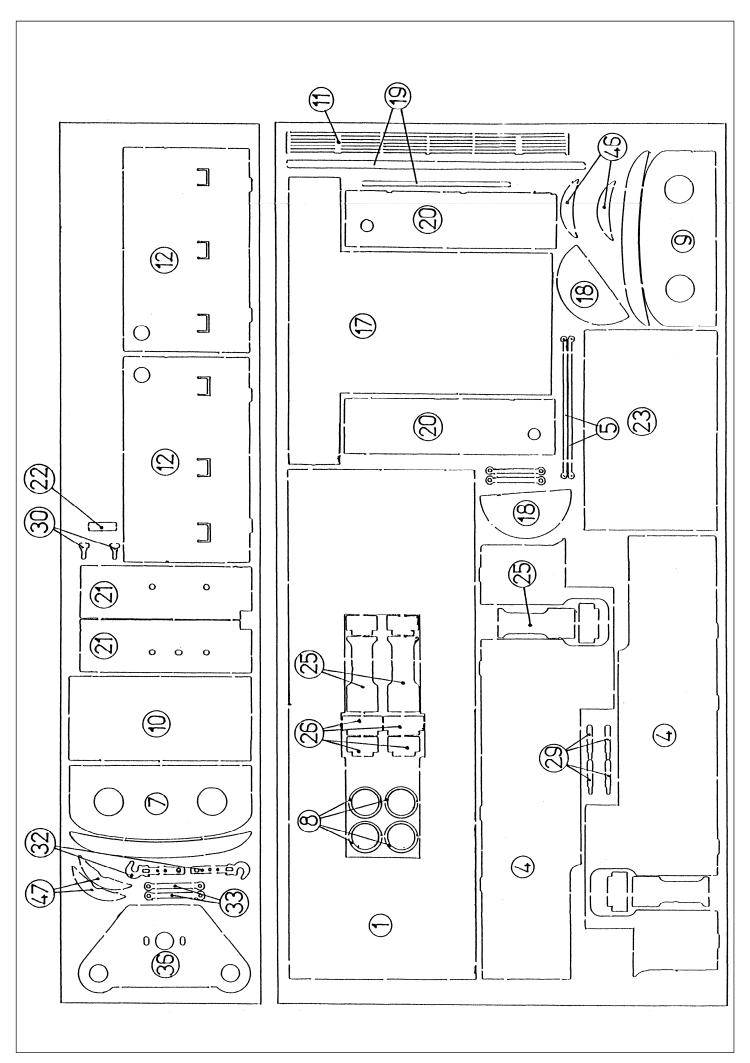
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Page 4, LNER J69/1 chassis instructions, July 2025



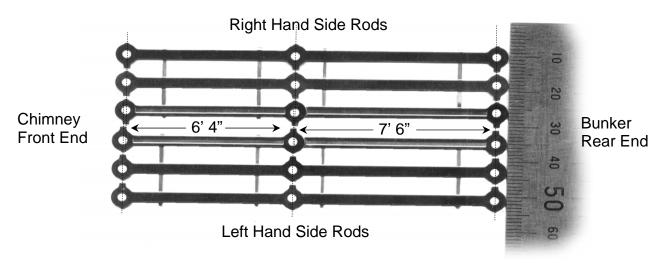
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I would suggest that the first legacy issue to address is that the L/H & R/H coupling rods are two different lengths and the crankpin hole centres and chassis wheel centres don't quite match up.

This is because I did not understand the distortions produced by the lenses of the colour printer used to produce the artwork and the copy camera that produced the Photo Etching Tools (the photographic film printing plates used to print the acid resist mask for etching, hence Photo Etch). I think this is described as Parallax error. Remember that in 1991 Computer Digital Design and Plotting did not exist. Back then my discrepancies were considered hardly noticeable compared to many of the problems on other producers kits that needed correcting. So making good is easily done.



For this job I would recommend using a set of alignment axles (sometimes referred to as dummy or witness axles). You can do the job by eye without a set but they are modestly priced (around £10, Jan 2024) and will be a useful tool on any chassis build, if only to confirm everything is correct. Different versions are available from a number of sources. The following two are correct Jan 2024:

AAT0/3 Set of 3 dummy axles, springs & washers: http://www.metalsmith.co.uk/

www.metalsmith.co.uk/ loco_buildingtesting_7mm _scale.htm



7MA042 Hornblock Alignment Jig 7mm scale (3 Axle): https://

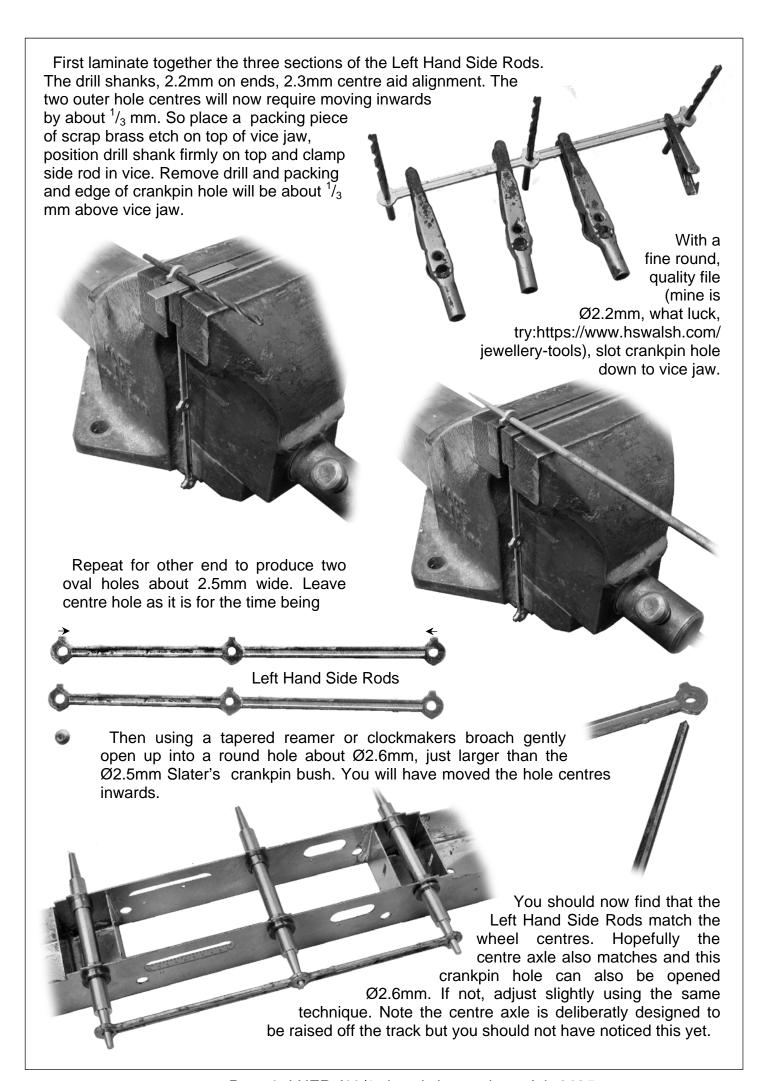
www.roxeymouldings.co. uk/product/960/7ma042hornblock-alignment-jig-7mm-scale-3-axle/



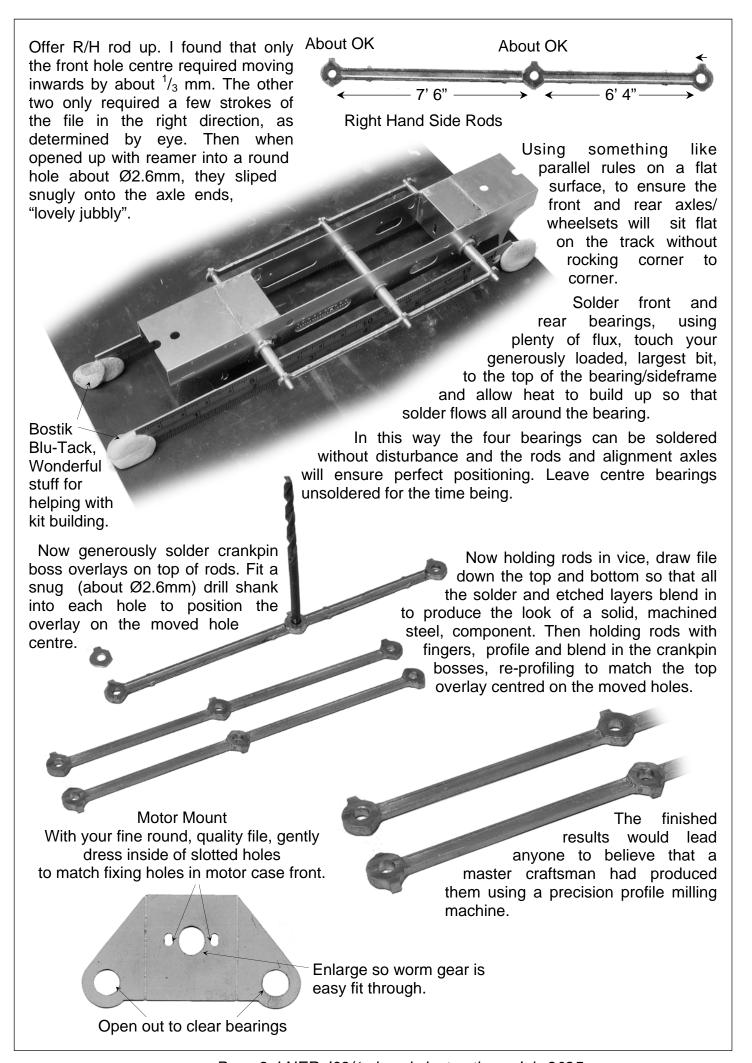
Form up chassis and spacers. Solder spacers and fold lines solid.

Pop in bearings, these remain unsoldered for the time being and pass alignment axles through.

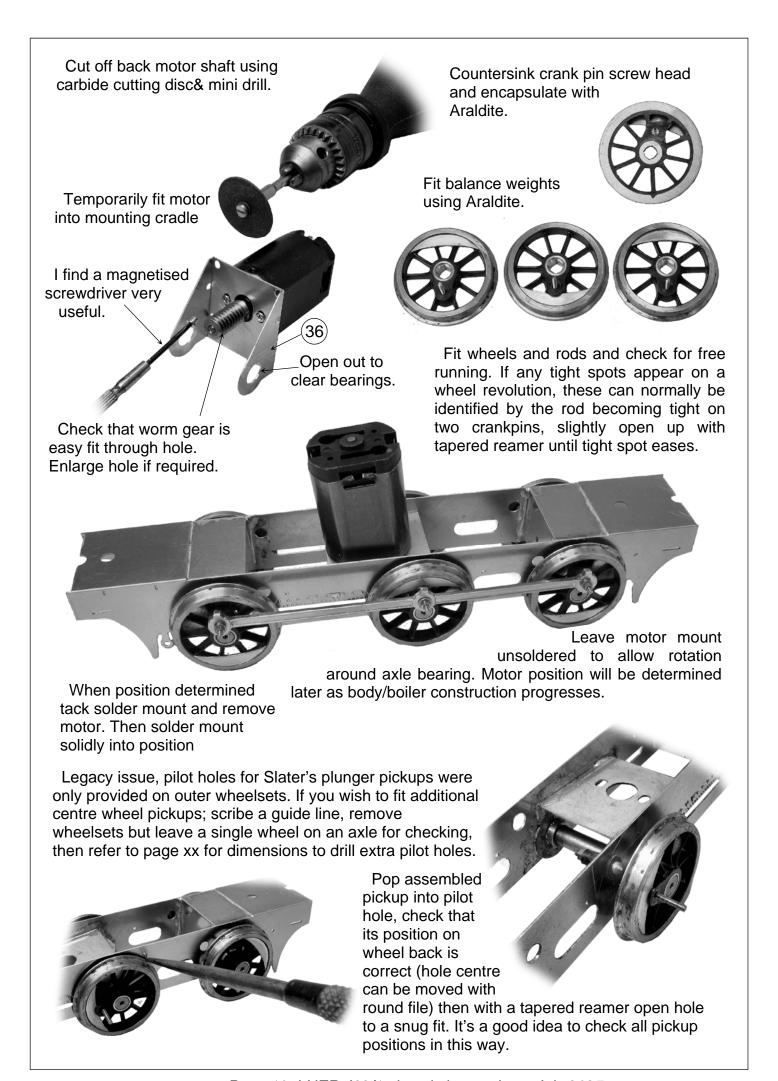
Offer rods up to give yourself a feel for how much and in which direction the crankpin hole centres need moving. "Easy peasy lemon squeezy".

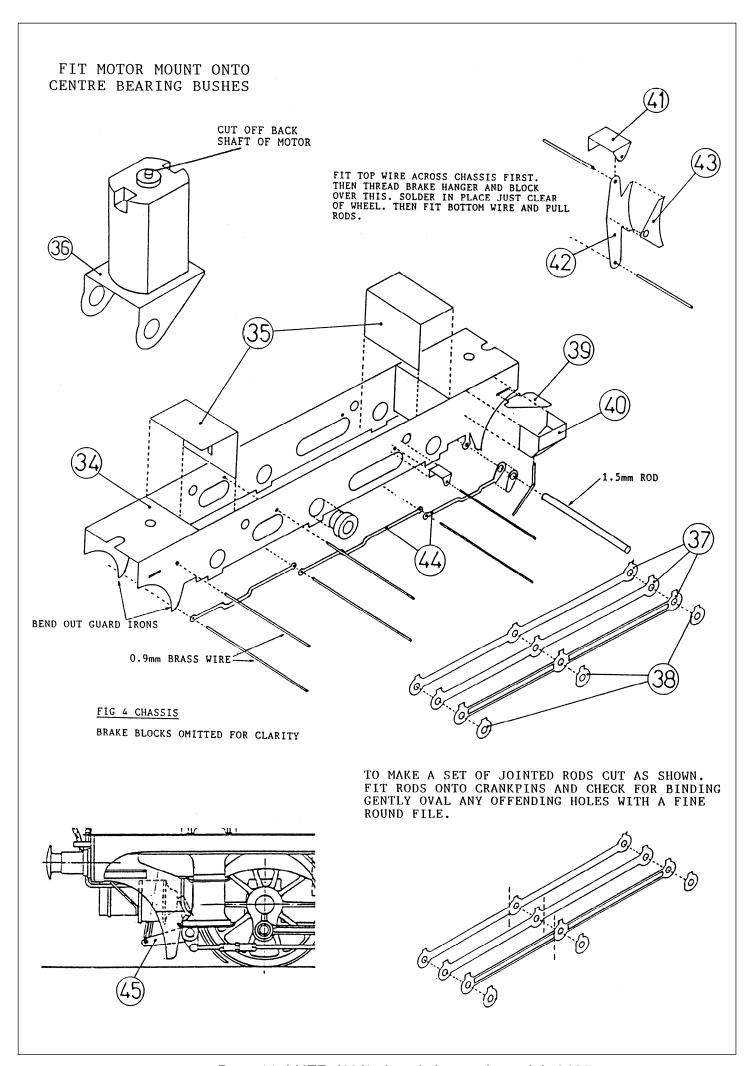


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An optional refinement is to introduce a little sloppy axle compensation. pickup.

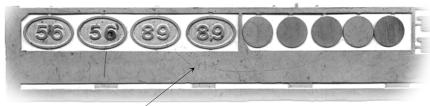
With an axle passing through bearings solder a length of 1.6mm brass rod so that it bears down on the axle. Remove the axle and ream out with a tapered broach the axle holes 10-15 thou oversize or file (use a round or 1/2 round file) the top and bottom of the bearing hole into a slight oval.

Refit the axle and you should have a slight rock of about 5 thou on each side.

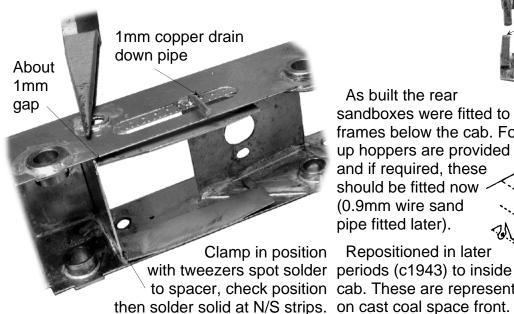
this does wonders for electrical

Legacy issue, I misinterpreted the drawing and provided firebox bottom detail in the oval frame cut out but assumed the drawing showed a fresh air gap below it. In reality the drawing was showing the hopper shaped ashpan that is slightly inset below the firebox.

Provided with the Slaters plunger pickups are optional packing washers. I recommend fitting these (check with assembled pickup all is still well).



So we need a strip of waste material to fabricate ashpan sides. The hoper shape is marked out and then with the part clamped in the vice jaws shaped with a flat file. It is only to provide a silhouette so you only need to work by eye.



fold over, squeeze flat, solder solid. 3_{mm} 1mm 32mm 8mm 8mm Trim down

Nickel silver waste

As built the rear sandboxes were fitted to the frames below the cab. Fold up hoppers are provided and if required, these should be fitted now (0.9mm wire sand pipe fitted later).

Repositioned in later to spacer, check position cab. These are represented

Legacy issue, no spring detail was originally provided. What is required is a solid silhouette that can be viewed through the spokes. So I have modified a suitable cast spring from a later loco kit so that the spring hangers will mount onto the outside of the frames. As it is one casting fits (almost) every position, a little filing down may be required for a snug fit. Check, taking account of side play, that wheel back clears Note two castings casting. are notched to help fit over the motor mount.

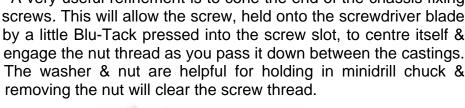
> until pull rods are fitted Drill out castings, first with Ø1mm from each end

to establish centre, then Ø1.7mm, to be an easy fit onto brass rod.

Note that chassis fixing screw will have to pass down between castings

> A very useful refinement is to cone the end of the chassis fixing screws. This will allow the screw, held onto the screwdriver blade by a little Blu-Tack pressed into the screw slot, to centre itself & engage the nut thread as you pass it down between the castings. The washer & nut are helpful for holding in minidrill chuck &

Leave free to move



Spot solder brake hanger to 0.9mm wire inside fold up bracket. Possibly best achieved by approximately and generously soldering joint first then re-heating as you manipulate by holding the brake hanger in tweezers so that the brake block aligns with the front face of the wheel

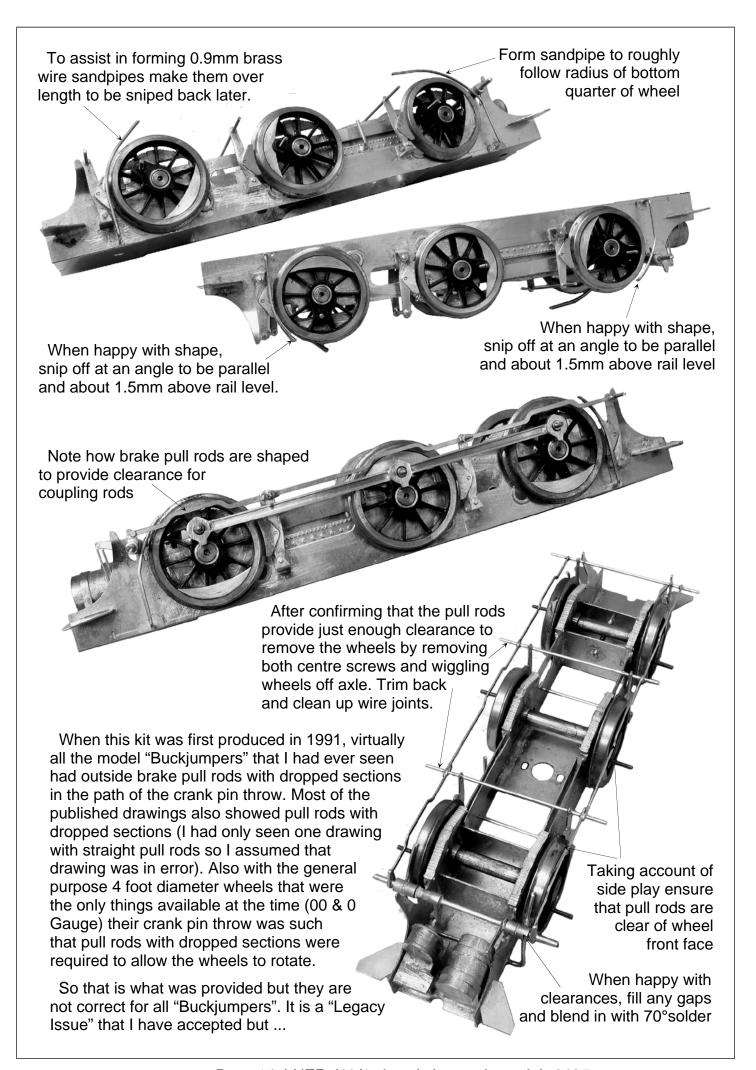
Leave bottom wire overlong until pull rods have been fitted.

(taking account of side play.

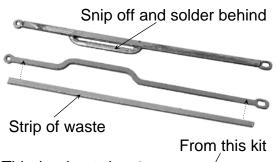




Legacy issue, The original intention was that the 0.9mm wire sand pipes would project down from the body (there are holes on the underside of the footplate). This would make splitting body and chassis difficult. So turn the sandpipe tops through 90° and fix into drilled holes, see page 4 for position dimensions.



... Legacy Issue, There was plenty of prototype "Buckjumpers" that had brake pull rods with dropped sections but these were shunters/freight locos and they were fitted with, 15 spoke, cast iron, unbalanced wheels that had a larger crank pin throw. The "Buckjumpers" condenser passenger Westinghouse air brakes etc, were fitted with, 10 spoke, steel, balanced wheels with shorter crank pin throw and straight pull rods. Slater's now produce a This is about the wheel to this specification (7848NE)



length required

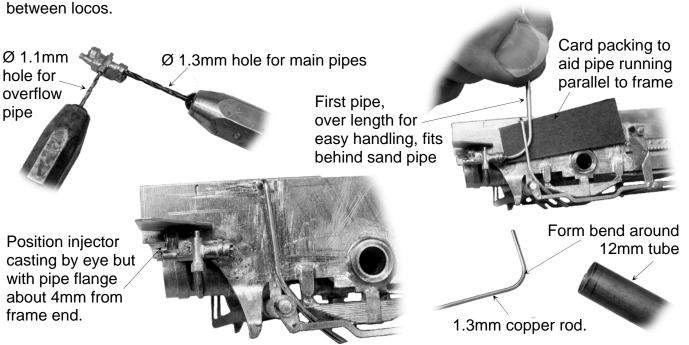
Now I have accepted this legacy issue but I know many of my customers are more ingenious than me. Straight pull rods are produced easy enough by soldering a strip obtained from the fret waste on top of the pull rod, then soldering drop section behind.

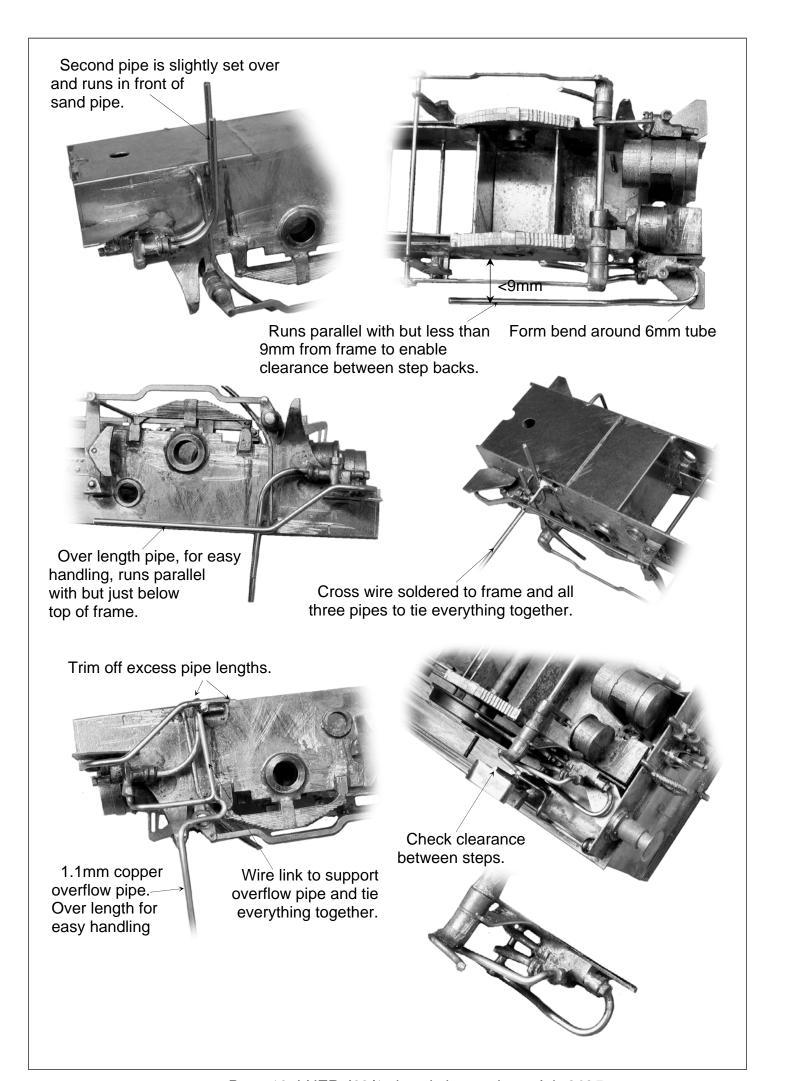
But the pull rod will still not clear the crank pin throw as the bottom of the brake hanger needs to be longer. By nicking the bottom with a triangular file the 0.9mm brass cross wires can be soldered below. A sliver of brass tube passed over the wire could be used to add some bulk to the bottom of the brake hanger. Something similar could be done at the rear operating crank.

Injectors and pipe work.

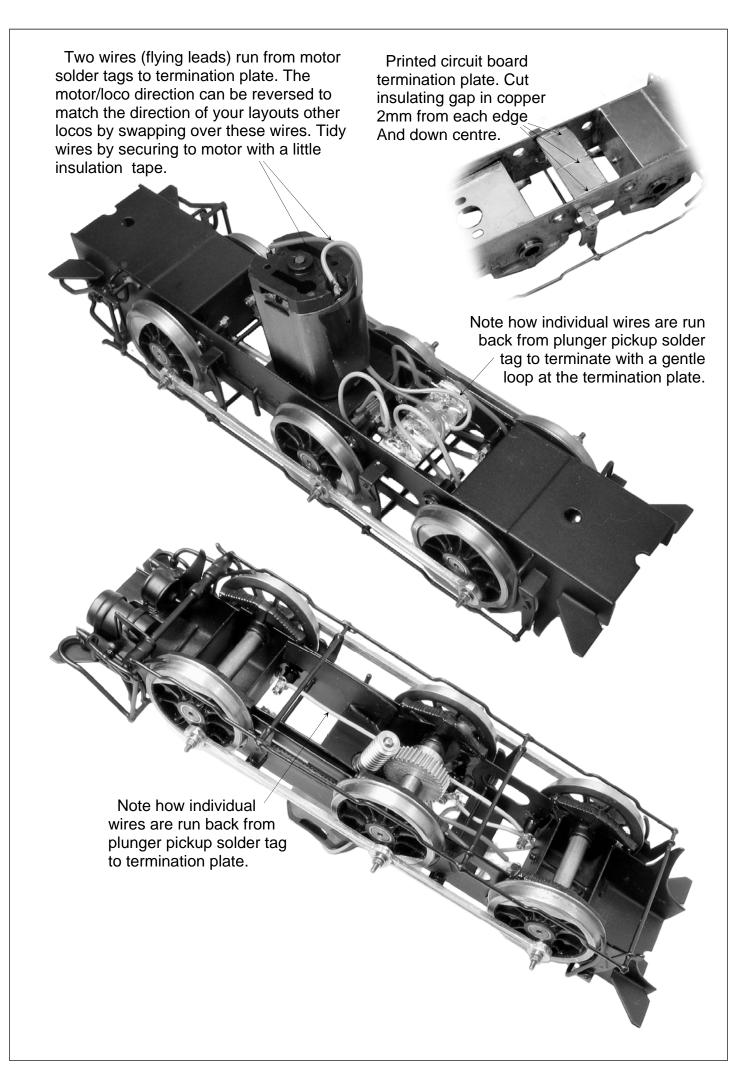
Originally the injectors were fitted forward of the step and underneath the footplate and from a model point of view, could not be seen. They were later moved and fitted to the frames underneath the bunker (probably by 1923). The pipe runs I fitted to my model are a slightly simplified representation and terminate in the darkness behind the steps (otherwise you will have difficulty splitting chassis from body). It is best to form up and position the pipe runs by eye, as you can not see both sides at the same time, don't worry if they are slightly different.

Looking at prototype photos the plumbing appears slightly different

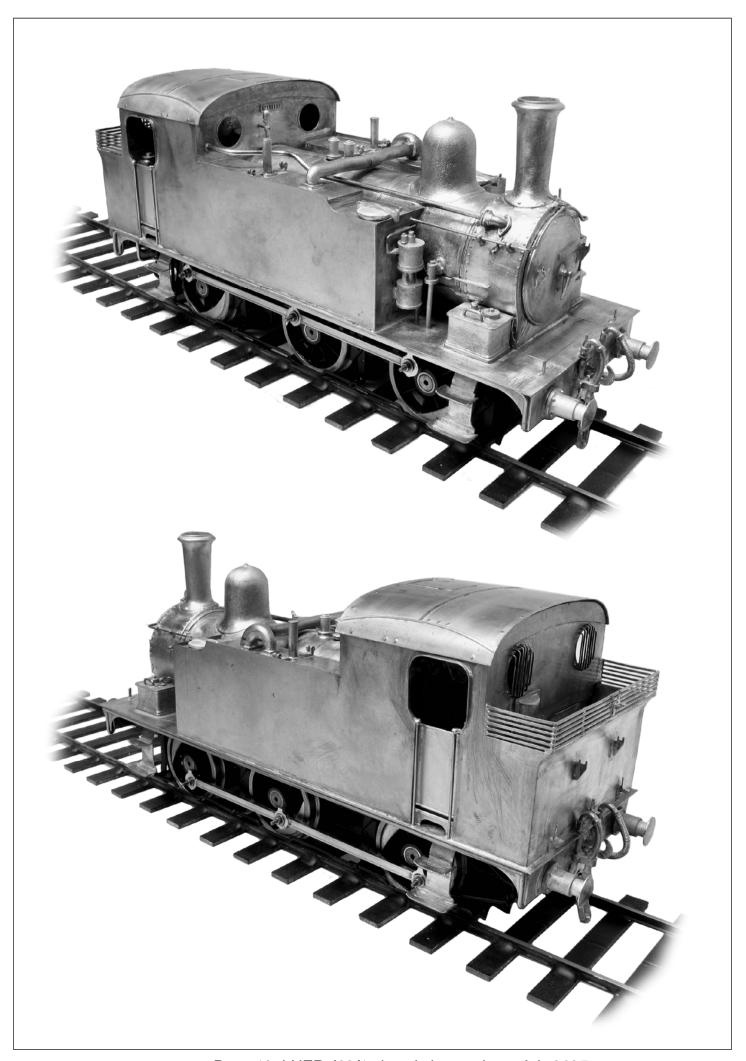




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