

SER-Kits
SER/SECR/SR/BR Stirling/Wainwright Class R/R1 0-6-0 Tank Locomotive
Details and order form July 2016



The kit makes all variations of this loco:

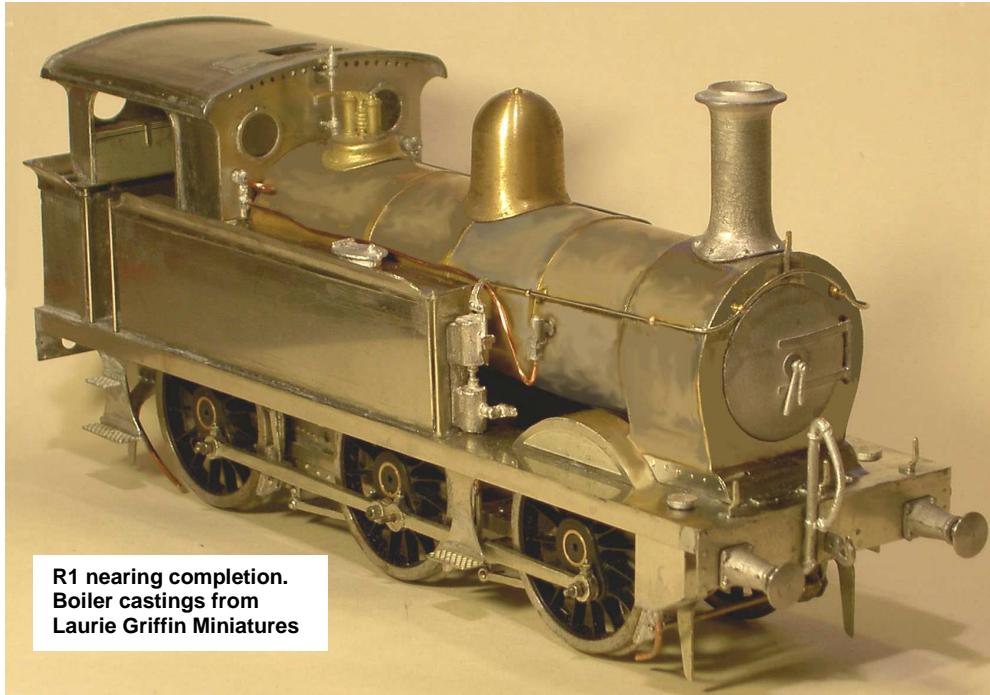
- the original batch with canopy cab and tank-top sandboxes
- the 'standard' Stirling version with its distinctive curved cab outline
- the Wainwright R1 version with pagoda cab
- the SR Whitstable branch type R1 with its cab similar to (but different from) the original Stirling cab.

As I concentrate on SER originals, I do not supply Wainwright boiler castings, and for those modellers wishing to make a R1, I supply the kit without the boiler castings (and at a lower price). The Wainwright castings, backhead and cab controls can be sourced from other suppliers such as Laurie Griffin Miniatures.

Kit specifications:

- Scale drawings (CAD) of the particular version you wish to build, based on NRM originals from Ashford, plus detailed instructions (around 45 pages) with photos and diagrams, plus historical notes
- As with all SER loco kits, the R/R1 is designed to go round 4'0 radius curves.
- 0.5mm nickel-silver etch designed for easy slot and tab construction. All necessary spacers and motion plate included for Scale 7.
- Etched N/S coupling rods to be laminated together for scale thickness and strength.
- Choice of cast resin boiler or etched with formers. Boiler removable for painting.
- High quality low-melt alloy castings for just about all detail that can be seen.
- Cab removable for painting inside. A Stirling backhead casting is included. Full Stirling cab detail castings for regulator, water level, oilers, etc, are an optional extra.
- The folded underframe enables the driving axles to be sprung with the included parts.
- Plunger pick-ups (self-assembly) for all 6 driving wheels. Kit can take Slaters' pick-ups if preferred.
- Simplified motion included in the etch (non-working). Full set of castings (non-working) as an optional extra
- Full brake-gear detail.
- Working sprung steel turned buffers with cast n/s draw-hooks and couplings from Slaters.
- Etched headcode and special boards, lamp castings.
- Suitable for DCC sound with an oval loudspeaker between the frames below the bunker.

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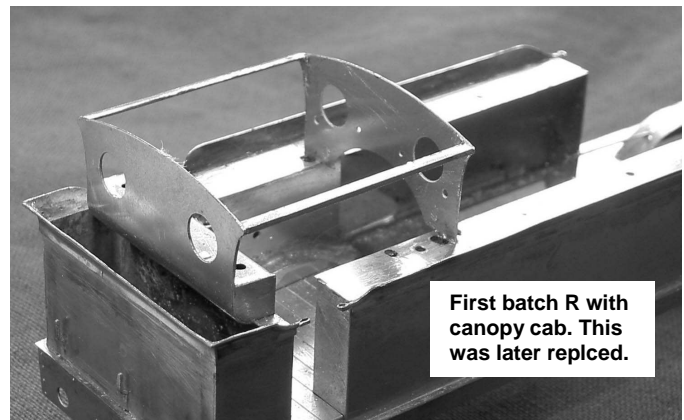
Needed to complete:

- Wheels and axles. Drivers: 18 spoke 5ft 6in, crank between: eg. Slaters 7867SW. Large bogie wheels: 3ft 9in 10 spoke, eg. Slaters 7845. *Note that the early batches had 3ft 0in 8-spoke bogie wheels which are not available from Slaters. I can supply these to order, with Slaters axles and steel tyres and **either** resin or low-melt alloy centres. Alternatively, I can supply an etch for the spokes and centres to be laminated together, and fitted into steel tyres.*
- Motor, gearbox, and thin electrical wire
- Flux and solder (Best if you have a couple with different melting points).
- 'Resin glue' – i.e. 2-part epoxy resin glue (eg. 5-minute Araldite or Devcon) - and superglue.
- Number plates, paint and lining.

Basic price for the R1 is £145 and for the R £157. Please contact Dan for further details.

Decisions you need to make before starting

Apart from the four main choices listed above, there are many minor variations requiring extra choices to be made: vacuum brakes or none (first batch, original condition), Wainwright or Stirling boiler fittings, dome, Wainwright or Stirling safety valve, variant chimneys, appropriate backhead and cab fittings, appropriate steam reverser. (Note that the tank front reversers are different from the boiler-side reversers of the Wainwright era.) SER-Kits will exchange fittings if returned safely in a jiffy bag, with three first-class stamps to cover return postage but small extra charges may be involved.



Design choices

For more detailed info, download the free instructions

- **Boiler**

The etch contains a boiler suitable for both Stirling and Wainwright (they were the same diameter contrary to some opinion...) It's roll-your-own with some boiler bands missing and supplied as half-etches because some of them are positioned differently. I can supply a resin casting of the standard Stirling boiler with accurate boiler bands for the Rs, but one or two of the boiler bands aren't in quite the right position for a R1 (a millimetre or so out).

- **Motor type**

Various small motors with flywheel and gearbox will fit the loco. S & D Models GBL40 gearbox has the smallest gears, and if the top corners are sawn off is the least obtrusive – but it's not always available. Supplied with a Mashima 1833 and flywheel, it performs very well. The Tower models and Branchlines 40:1 fold-up gear boxes work well with the Mashima 1833. The Roxey fold-up gear-box may be too wide for adequate side-play if you have tightish curves. ABC Gears Canon or Mashima 1833 with Mini gearbox works very well if you are able to pay the price.

- **Compromises:**

The motion & valve-gear for each cylinder are set closer together than in the prototype, in order to suit Fine-scale, and to clear the overscale bearings. The wheel splashers and cab wheel housings are wider because of the back-to-back measurements of Finescale. Splashers are etched both to scale and slightly over to provide for the nearest size of Slater's wheels.

- **Problems with small radius curves**

The kit is designed to go round 4'0 radius curves. It can almost certainly be amended if your curves have a smaller radius.

- **Choice of dummy motion – etched or cast**

Particularly with the R1, the motion is very visible. The etch includes parts for a simplified motion which will probably satisfy most modellers. For complete realism, you should purchase a set of the SER-Kits dummy castings.

- **Various other design choices** are described at the appropriate point in the instructions.

Ordering details – see over

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GOG 4335, HMRS 1858, SECSoc 76

SER-Kits R/R1 order form 1.7.16

PLEASE STATE WHICH VERSION AND APPROX. DATE-IN-SERVICE OF YOUR INTENDED MODEL

Item	Yes or no	Price	Total
R basic kit – boiler on etch:		£165	
R1 basic kit – boiler on etch: (less chimney, dome, safety valve, etc)		£155	
High quality resin boiler casting		*£9	
Dummy motion castings		*£16	
Stirling Tank Cab detailing castings (when supplied with kit)		*£10	
		Insured P&P	UK: £12.50 Europe: £15
Cheque made out to D.Garrett (will not be cashed until order sent out)		Total:	

*Discounted price only when supplied with the R or R1 basic kit

PLEASE PRINT YOUR NAME, ADDRESS AND POSTCODE IN BLOCK CAPS, to be used as posting label:

Post this page with cheque made out to D.Garrett to SER-Kits, 20 Weald Close, Weald, Sevenoaks, Kent TN14 6QH
Further queries? - email serkits1@aol.com or send SAE.