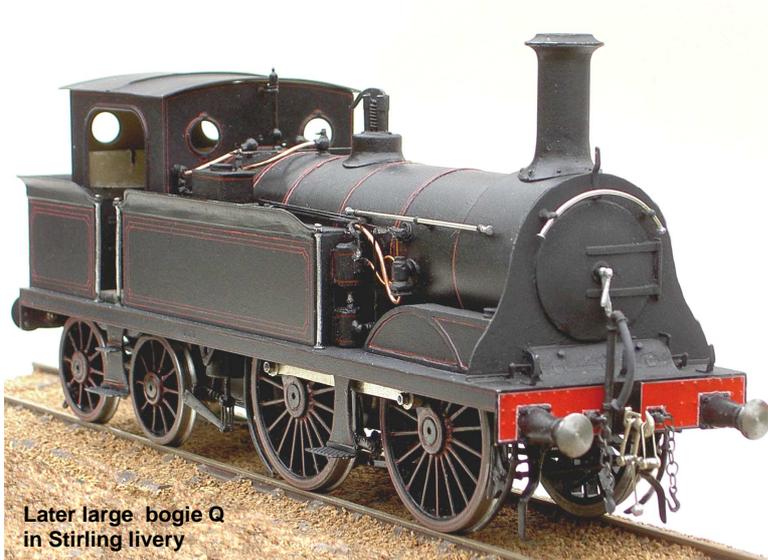


## SER-Kits

### SER/SECR/SR Stirling/Wainwright Class Q/Q1 and Metropolitan Class C 0-4-4 passenger tank locomotive Details and Order Form July 2016



This kit makes probably all the variations of this loco. 'Probably' – because there were so many. There are different frames and bogie frames for the smaller and larger bogie-wheel versions with their shorter and longer bunkers. Also both Q and Q1 cabs. Extra castings are available for the condensing versions. As I concentrate on SER originals, I do not supply Wainwright boiler castings, and for those modellers wishing to make a Q1, I supply the kit without the boiler castings (and at a lower price). The Wainwright castings can be sourced from other suppliers such as Laurie Griffin Miniatures.

#### Kit specifications:

- Scale drawings (CAD) included in kit based on NRM originals from Ashford and Nielsen plus detailed instructions (around 45 pages) with photos and diagrams, plus historical notes
- 20 thou kit nickel-silver etch designed for easy slot and tab construction.
- 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 for the driving wheels. Parts supplied for self-assembly. Kit can take Slaters' pick-ups if preferred. As 4-wheel pick-up is usually insufficient for good running the bogie is designed in two electrically separate halves for split-axle pick-up.
- 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.
- Cast n/s draw-hooks and couplings from Slaters.
- Etched headcode and special boards, lamp castings.
- Suitable for DCC sound with an oval loudspeaker in the bunker (holes and fixing etched for Loksound) and the decoder below the motor in the firebox.



#### Scale 7:

- Motion plate etch included.

### 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.



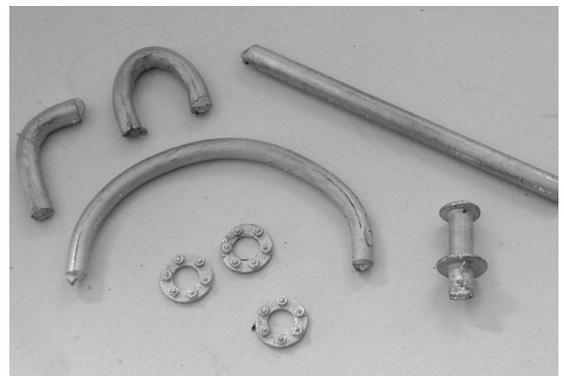
### Decisions you need to make before starting

Which version?

The kit should make almost any version of the Q or Q1, based on four main variants. Study photographs and choose your particular loco, preferably before purchasing the kit.

1. Original type with 3ft bogie wheels. (These include the condensing version, but extra pipework castings will be needed)
2. Later type with 3ft9in bogie wheels (note that some locos had 3ft bogie wheels with longer wheelbase: a little bit of bogie frame amendment needed for these)
3. Wainwright high-boiler version with centre safety valve, no dome and probably Stirling backhead and fittings
4. Wainwright Q1 rebuild of *either bogie version*, and sandboxes either integrated into the front splashers (as in Stirling's day) or below the footplate coupled with plain arc splashers.

There are many minor variations requiring extra choices to be made: Smith's or automatic vacuum, 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.



Condensing version castings

## 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 Qs, but one or two of the boiler bands aren't in quite the right position for a Q1 (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 Branchlines gear-set with nylon worm is noticeably quieter. The Roxey fold-up gear-box is too wide for adequate side-play if you have tightish curves. MSC Models' standard small 'SM' motor with flywheel and fitted gearbox has probably the best-made gears of the lot, but the 25-1 gearing may be a bit too fast.

- **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/ bogie wheel size**

The kit is designed to go round 4'0 radius curves. It can almost certainly be amended if your curves have a smaller radius, but you may find it best to choose the 3'0 bogie wheel version where the prototype has cutouts in the frame for the wheels to swing under. If you definitely want the 3'9" bogie wheel version, consider buying Slater's 3'7" wheels which are close to scale across the flanges.

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

Particularly with the High-boiler Q and the Q1, 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.

Early Q Stirling cab fittings

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

For ordering, please fill in the form overleaf.

Dan Garrett  
20 Weald Close  
Weald  
Sevenoaks  
Kent TN14 6QH

Email: [serkits1@aol.com](mailto:serkits1@aol.com)

GOG 4335, HMRS 1858, SECSoc 76

SER-Kits Q/Q1 order form 1.7.16			
PLEASE STATE WHICH VERSION AND APPROX. DATE-IN-SERVICE OF YOUR INTENDED MODEL:			
Item	Yes or no	Price	Total
Q basic kit – boiler on etch: Please state if long tank-top sandboxes (Ashford and Sharp Stewart) or short (Nielsen etc)		£165	
Q1 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 Q kit)		*£10	
Smiths non-auto vacuum ejector and stanchion/pipes (pre c.1893) (Auto vac pipes are usually included)		£5	
3ft wheels and Slaters axles (resin or low-melt alloy centres: set of four)		F/S *£26	
Etch 3ft bogie spokes and centres plus Slaters tyres and axles: set of 4 <i>Etch only for S7</i>		F/S *£19  S7 - *£8	
Condensing pipe castings		£6	
		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 Q or Q1 basic kit		
PLEASE PRINT YOUR NAME, ADDRESS AND POSTCODE IN BLOCK CAPS, to be used as posting label:			

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