

GAUGE 1
MODEL MAKERS KITS



G.W.R. KING 4-6-0

Collett followed Churchward and in 1924 produced the Castle Class developed from the Stars. Widely proclaimed as the best locos Swindon had ever produced, it would take many years for their performance to be surpassed. Collets original Kings were initially only slightly better than the castles - but better enough for 29 to be built. It was not until the late 1940's, under British Rail ownership that the Kings received small, but very effective design changes that truly set them at the top of the locomotive performance tables.

The King was to some a 'Super Castle'. Initially, a slightly bigger boiler and modified front bogie were the only apparent visual differences. Cylinder diameters, smaller wheels (by 3") and super heaters element quantities gave the rest of the changes. It was in 1946 that an 'oval' sided double chimney was tried, and the results lead to the straight style adopted by BR.

3 of this class have been preserved, namely:
6000 King George V, 6023 King Edward II, 6024 King Edward I

The MODEL MAKERS KITS

These are designed and produced for those whose machining facilities or skills are limited or whose modelling time is at a premium.

The main frames are laser cut mild steel, as are the bogie frames & stretchers, coupling and connecting rods, valve drive rods and eccentric straps. The cylinder frames, frame stretchers, bodywork, boiler cladding and tender are all from flat etched brass sheet. The copper boiler is built, tested and carries a manufacturers certificate. There are many 'loose' subassemblies, i.e. steam chest, axlepump, handpump, ready for you carry out the final clean and assembly and sealing. The outside is then detailed with brass castings.

All machining is done. Pressure gauge, screws, nuts, rivets, 'O' ring seals, springs etc. are supplied to complete the assembly. We do not supply paint, transfers, Name and number plates, solders, time or patience.

You will require a bench and vice, some hand tools, a drilling facility (which could be an electric drill on a stand) and a small gas torch for soldering. The work includes bending sheet metal, drilling piloted holes out to size, tapping threads in holes (in many cases nuts could be used instead), soft and hard (silver) soldering of small items. A small selection of BA and ME 40TPI taps & dies will also help.

Our model has only two working cylinders which gives enough power for a typical Gauge 1 engine without all the complexity of 4. Our valvegear is therefore easier to set and more robust giving a long and reliable working life. This production batch will be limited to 40 models and will not be repeated for five years. Original GW or later BR options will be available.

Support for the model maker.

The model making hobby is littered with part built projects which have been abandoned because the modeller has hit a problem. Included in the price are two hours of our time, a 'get out of trouble' service. It could be advice on the phone, a practical soldering training session in our works, correcting a mishap or setting valve timing. Apart from phone calls, a modest charge will be made for time spent over your two hours.

We can also supply replacements for individual components providing they are returned for us to identify. For etched items there will be charge depending on the size. Laser cut steel may be a problem as there are minimum order quantities involved and we shall only order a limited number of spares.

The Construction Guide comprises over 40 pages of photographs, exploded diagrams produced on 3D CAD, photographs and text, together with identification diagrams and drawings. It takes you through each stage, including jigs and methods, settings and adjustments, finishing with operation and use.

LOCO SPECIFICATIONS

Length	682 mm (2'2 7/8") (over buffers)
Track radius	2.6 m (8ft 6") minimum
Weight, dry.	10 - 12 lb (5 - 5.5 Kg) Approx. (Current estimate)
Fuel	Alcohol (Methylated spirit) supplied by constant level feed system to a multi-tube 'strand wick' burner. Coal, sitting on traditional stainless steel grate and ashpan. drop down fire door on backhead, Shovel & poker
Boiler	Internally fired, multi flue, with safety valve and superheater Built from copper and bronze, silver soldered throughout. Tested to 13bar (200psi) Maximum safe working pressure 6.86 bar (100psi)
Controls: loco:	Regulator, blower, pressure gauge. Spirit Boilers : low water level test valve Coal boilers : Water gauge with glass
tender:	Water pump bypass, fuel valve.
Cylinders	Two, Outside, 12.7mm bore x 24mm stroke (1/2" x 15/16")
Valvegear	Slip eccentric, slide valves
Lubrication	Displacement (Rosco) type.
Water feeds	Tender carries water in rear tank containing hand pump. Loco has axle pump driven from driving axle. Main loco axleboxes individually sprung. Bogie axleboxes individually sprung. Buffers and coupling hooks sprung.



DELIVERY AND PAYMENT

This kit is supplied in four instalments spread over 12 months as production of the parts progresses. The first three months are dedicated to the tender, starting with the etchings. Month four sees a start to the loco frames, progressing through wheels and suspension, motion, boiler and controls.

The initial payment will be your deposit, reserving your kit. When the batch starts we request that you set up a 'Standing Order' with your bank to pay twelve monthly instalments. We shall supply a standing order form with our details. Alternatively a set of cheques that have been post dated is also acceptable. Please arrange payments for a date at the beginning of the month. Other Payment methods can be arranged upon request. Prices shown include 20%VAT.

COLLECTION

from works or pick up at shows/exhibitions as production progresses, then collect the kit by arrangement or as one box at the end.

	Deposit	Instalments	Total	Ready To Run
Spirit fired	£237	12 x £230	£2,997	£7,493
Coal fired	£257	12 x £245	£3,197	£7,993
Static/elec	£142	12 x £138	£1,789	£4,495

POSTAGE

Add £10 to each instalment to cover the cost of the four postages. Total £120 Receive the kit in four packs over the twelve months, posted using Royal Mails' 'Special Delivery' service for the UK. These are guaranteed delivery before 1pm the next day, must be signed for and have adequate loss or damage compensation.

For overseas customers, the instalment weight is limited to below 2Kg to keep airfreight cost down. Payment in four instalments reduces bank charges. Please enquire for more details.



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