

## PAYMENTS & DELIVERY

The production of the kit will take 12 months, being delivered in 2 packs.

Pack 1 Chassis, suspension and wheels, body work and castings, to complete the static model.

Pack 2 steam fittings boiler and controls, for the live steam kit only.

Payment is by initial deposit, then 6-12 interest free monthly instalments, or 50% deposit and final payment on completion.

Order now to reserve your kit at current prices.

	Price	deposit	instalments
Static Kit.	<b>£1,353</b>	£105	12 * £104
Steam Kit	<b>£2,255</b>	£179	12 * £173
R-T-R electric	<b>£3,383</b>		
For motor, gearbox, control unit and batteries add		£450	
R-T-R steam	<b>£5,638</b>		

Postage would cost £35 a box to post in the UK.

Each pack may weigh over 2Kg, post is by Royal Mail 'special delivery'.

You could always arrange to collect from the works or the shows we trade at.

For overseas customers, the price for insurance and postage will be worked out on order.

## BARRETT STEAM MODELS LTD

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## GAUGE 3 KIT



Gauge 1 version

## GER E22. 0-6-0 TANK LOCO

The tank loco was designed by Holden in 1886 and originally classed as E22. During their life many of them handled the busy suburban services out of Liverpool Street Station whilst others were distributed around East Anglia on goods, shunting and local passenger work. Their rapid acceleration earned them the nickname of 'Buckjumper'. At Grouping they were absorbed into the LNER, classed as J65 and painted black. About 150 passed into BR hands who painted one or two in lined apple green. One of a similar class, the J67, served as a station pilot until 1961 when it was restored into GER blue and is now in the National Railway museum at York.

### THE MODEL

From experience gained with our previous models in Gauge 1, we have simplified the construction even further. The static kit contains all that you need to build a nicely detailed model and will include wheels. Space and suggestions are provided for battery powered control systems.

The steam powered kit contains everything required to produce a simple, working, live steam model that can be continuously refilled, without cooling down. This will include a handpump and an axlepump, enabling the loco to pump it's own water to maintain boiler water level on longer uninterrupted runs. It is commonly fitted to larger Gauge 1 Locos.



## **BARRETT STEAM MODELS**

John Barrett started Barrett Engineering in 1980 having spent many years in engineering quality management. Since 1980 we have been in continuous, full time manufacture.

In 2013 the business changed its name to Barrett Steam Models Ltd with the retirement of J.Barrett.

We embrace traditional skills of the craftsman together with modern technology. Computers are at the heart of the design, used to create accurate etching masks and laser cut steel. We use CNC for production machining and pattern making. We cast our own whitmetal and inject our waxes for investment (lost wax) brass casting. All our material is sourced in the UK.

## **The MODEL MAKERS KITS**

These are ideal for those whose machining facilities or skills are limited or whose modelling time is at a premium. The E22 is particularly suited for those who are new to live steam. It can run on small radius curves, making it possible to use live steam on layouts of limited size.

The construction guide comprises photographs and text together with identification diagrams and drawings. It takes you through each stage, including settings and adjustments, finishing with operation and use.

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 simple bending of sheet metal, drilling piloted holes out to size and some soft soldering. If that is too much of a hurdle, epoxy resin adhesives such as Araldite are a slightly less satisfactory alternative.

The static kit includes, laser frames and rods; requiring very little cleaning up with some piloted holes needing to be opened out to size with a drill, brass sheet parts; with complex forming done. Brass detail castings, with all machining including wheels and axles.

The steam kit also includes built, tested and certified boiler. The twin cylinder unit comes as a loose assembly with piston and valve's in place, ready for final assembly. Pressure gauge, screws, nuts, rivets, 'O'ring seals, springs etc. Are included to complete the assembly. We roll the boiler wrapper and silver solder the meths tank, sump, burner.

The axlepump contains the motion driven pump and its drive linkage, water delivery control and pipework fittings.

The model making hobby is littered with part built projects which have been abandoned because the modeller has hit a problem. We offer 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. We include two hours free consultation or training session in our works and will try to advise over the phone during normal working hours. Over and above the two free hours there will be a nominal charge.

We will also supply replacements for individual components providing they are returned for us to identify. For etched items or investment castings there will be a charge depending on the size.

## **LOCO SPECIFICATION**

Scale	13.5mm : 1ft (Gauge 3 standard)
Length	358mm
Weight Min. Radius	4Kg approx.
Fuel	Alcohol (Methylated spirit) supplied by constant level feed system.
Cylinders	Twin 1/2" bore x 3/4" stroke (12.7mm x 19.1mm)
Boiler	Internally fired, multi flue, with safety valve. Built from copper and bronze, silver soldered throughout. Tested to 200psi (13bar) Max. safe working pressure 100psi (6.5bar)
Controls	Regulator, blower, pressure gauge. Fuel valve, water gauge
Valvegear	Slip eccentric.
Lubrication	Displacement (Rosco) type.
Water feeds	Water carried in the side tank which contains hand pump. An axledriven pump with its pipework and bypass control valve
General	Loco, Buffers and coupling hooks sprung

