Conversion electric to steam

The electric kits use the same components as the steam version. The conversion from electric to steam kit is fairly easy if you wish to upgrade to steam at a later date.

PAYMENTS & DELIVERY

This kit will be produced over 9 months, part 1 ready for collection in October.
The electric/static kit would be ready after 4 months. Deposit required £100
If you wish to pay by instalments the total cost will be split over the 9 months.

Electric Kit.	Price **£645**
Steam Kit	Price **£1,150**

1 complete kit would cost £35 to post. Steam kit produced in 2 packs total postage £60

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

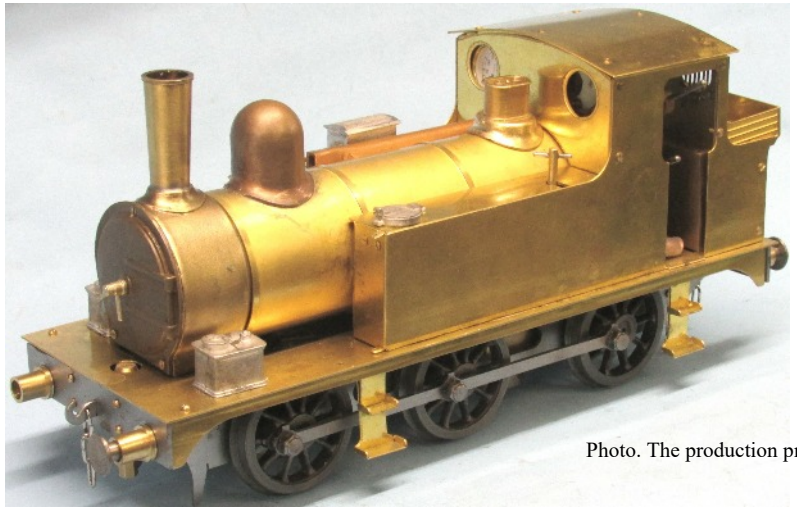


Photo. The production prototype

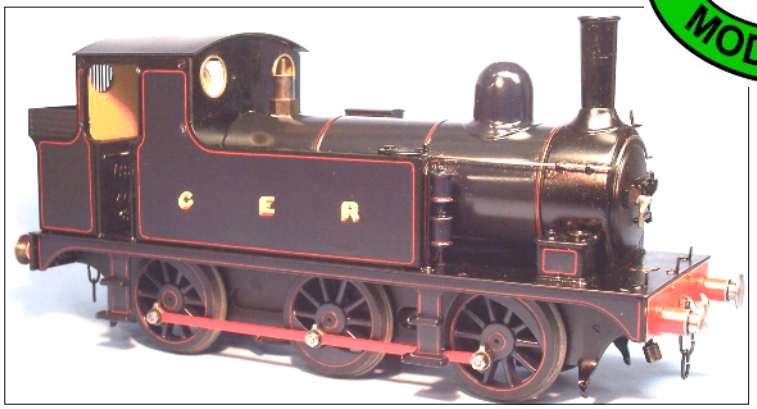
BARRETT STEAM MODELS LTD
47A CORONATION ROAD
HIGH HEATH,
PELSALL,
WALSALL. WS4 1BG

Telephone. (office hours) 01922 685 889
Website :- www.barrettsteammodels.co.uk
Email :- locosales@barrettsteammodels.co.uk

FSB MEMBER

Jan 2020

GAUGE ONE STARTER KIT



G.E.R. 0-6-0 T J65 TANK LOCO

The J65 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 beginners models, we have simplified the construction even further. The electric kit contains all that you need to build a nicely detailed model and will include a motor/ gearbox unit and wheels. Space and suggestions are provided for battery powered control systems, but the wheels will need insulating for two rail operation.

The steam powered kit contains everything required to produce a simple, working, live steam model requiring refilling, relighting and steam raising about every 12 minutes. This will include the handpump, which will allow the model to be kept in steam for as long as you like. The axlepump will be produced as an optional extra enabling the loco to pump it's own water to maintain boiler water level on longer uninterrupted runs. It is commonly fitted to larger locos but is still being proved for this model.

BARRETT ENGINEERING

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. Barrett Engineering, with son Steven as a partner, produce model makers kits, we occasionally produce ready to run locos. 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 design, accurate production of etching masks and laser cut steel. We use CNC for production machining and pattern making. We cast our own whitemetal and inject our waxes for investment (lost wax) casting.

The MODEL MAKERS KITS

These are ideal for those whose machining facilities or skills are limited or whose modelling time is at a premium. They are a good stepping stone from the 4mm and 7mm kits into the world of gauge one. The J65 is particularly suited for those who are new to live steam. It can run on small radius curves (LGB R2-765), 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 electric kit includes, laser frames and rods; requiring very little cleaning up with some piloted holes opened out to size with a drill, etched brass sheet parts; with complex forming done, a number of investment and whitemetal detail castings, with all machining including wheels and axles done. Includes motor and gearbox.

The steamkit also includes built, tested and certified boiler. The single cylinder unit comes as a loose assembly with piston and valve 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.

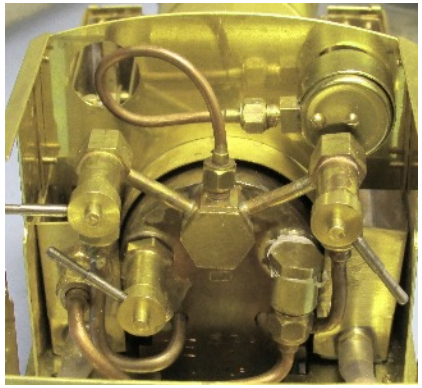
The proposed axlepump pack will contain the motion driven pump and its drive linkage, water delivery control and pipework fittings.

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. Whitemetal castings returned with a stamped self addressed packing are free.

LOCO SPECIFICATION

Scale	10mm : 1ft
Length	10.75" (275mm)
Weight	4.5lb (2 Kg) Stages 1,2 and 3
Min. Radius	765mm (2ft 6inch) LGB R2
Fuel	Alchohol (Methylated spirit) supplied by constant level feed system.
Cylinders	single 7/16" bore x 3/4" stroke (11.1mm x 19.1mm)
Boiler	Internally fired, multi flue, superheated. 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
Valvegear	Slip eccentric.
Lubrication	Displacement (Rosco) type.
Water feeds	Water carried in a side tank which contains hand pump. An axledriven pump with its pipework and bypass control valve As an optional extra
General	Buffers and coupling hooks sprung



View inside cab showing regulator control (top left), boiler feed connection (lower left), Blower control (upper right), Water level test valve (lower right), Pressure gauge (looking out of right hand window).