

PAYMENT AND DELIVERY

The kit is supplied in four instalments spread over 12 months as production of the parts progress. Deliveries will start with the tender, followed by the loco frames and etchings and ending with the boilers, controls and details.

Initial payment deposit is paid with your order, followed by twelve monthly instalments by Standing Order through your bank (we will supply a Standing Order form) or by paying for each pack as it becomes available. Other payment methods can be arranged on request, feel free to ask for more information. Please note that should you decide to cancel your order, the deposit is not refundable.

COLLECTION

From works or pick up at shows/exhibitions as production progresses, or collect at the end once complete.

	Deposit	Instalments	Total	Ready to run
Coal fired kit	£279	£268	£3,495	££8,388
Spirit fired kit	£259	£253	£3,295	£7,908
Static/un-powered	£174	£164	£2,142	£5,141

POSTED

Add **£10** to each instalment to cover the cost of **four deliveries**. Total **£120**. Posted using the Royal Mails' 'Special Delivery' service within UK. These are guaranteed delivery before 1pm the next day, must be signed for and have adequate compensation against loss and damage.

For overseas customers each instalment will be weighed, and the best delivery courier chosen for your country. The payment in four instalments reduces bank charges. Please enquire for further details.



LMS 4000 gallon tender

BARRETT STEAM MODELS LTD

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GAUGE 1 MODEL MAKERS KITS



L.M.S. 4-6-0 5MT 'BLACK 5'

This class of locomotives was introduced by the new CME of the LMS, Sir William Stanier in 1934. Over a period of years a total of 842 were built. As with any design built over a long period there is an inevitable progress of development and the Black 5 was no exception. The obvious visible changes were for the straight throatplate 2A boiler to the sloping version 3A and between Walshaerts, Stephenson and Caprotti valvegears. The boiler dome and water feed boxes also varied. The tenders used were all 7ton 4000g Stanier roll top, early versions being riveted and later all welded.

Liveries started with the 1928 style fully lined black and went through various black based schemes with variations in lining and lettering. Four of the class were painted in green for a short period. Only four of the class received names.

THE MODEL

Our model is based on the Walshaerts valvegear prototype with either the 2A or 3A boiler. In common with our other designs, the working valvegear will be a robust, slip eccentric, protected between the frames. The outer Walshaerts valvegear will move in a prototypical manner but not be functional, what has been referred to as 'Bullshaerts'!

There is a book in the 'Locomotives in detail series' No2 by Jennison & Clarke published by Ian Allen in 2004 which details the variations of the class.

BARRETT STEAM MODELS LTD

John Barrett started Barrett Engineering in 1980 having spent many years in engineering quality management. Our core business is building high quality, reliable, live steam, gauge one locos. During our twenty five years we have been in continuous full time manufacture and can justifiably claim that ,together with our production team, we have more experience of design and manufacture than any other in this field. In recent years, Steven joined the business..

With the retirement of John the business has changed name becoming Barrett Steam models Limited still manufacturing to a high standard, kits for locomotives, coaches and some track side accessories, with the occasional ready-to-run commission being taken.

The MODEL MAKERS KITS

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

The boiler is built, tested and certified. The cylinder units come as a 'loose assembly' with pistons and valves in place ready for you carry out the final assembly and seal it up. Items such as hand and axlepump bodies are pre assembled. The kit includes laser cut steel items, etched brass components, all machining done, pressure gauge, screws, nuts, rivets, 'O' ring seals, springs etc. to complete the assembly.

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.

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. Whitmetal returned with stamped addressed packing are free.

The Construction Guide comprises over 30 pages of photographs, exploded diagrams produced on 3D CAD 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 SPECIFICATION

Scale 10mm to 1 foot
Length 636mm (25")
Track radius 2.3m (7'6"t) minimum
Weight 5 Kg (10 lb) est.

Fuel Alcohol (Methylated spirit) supplied by constant level feed system to a 'toast rack' style wick burner.

Boiler Internally fired, multi flue, superheated, with safety valve.
Built from copper and bronze, silversoldered throughout.
Tested to 200psi (13bar)
Maximum safe working pressure 100psi (6.5bar)

Controls: loco: Regulator, blower, low water level test valve, pressure gauge.
tender: water pump bypass, fuel valve.

Cylinders Two, 12.7mm dia x 22mm stroke (1/2" x 7/8")

Valvegear Slip eccentric, slide valves, between frames

Lubrication Displacement (Rosco) type.

Water feeds Tender carries water in rear tank containing hand pump.
Loco has axle pump driven from driving axle.

General Buffers and coupling hooks sprung.
Loco bogie & driving axleboxes individually sprung.

