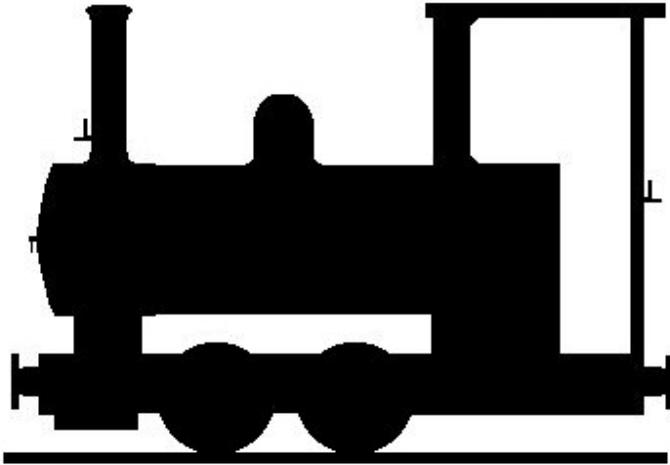


John Prescott Engineering

Catalogue
March 2010
Price 50p.



Rolling Roads.
Locomotives in 32 and 45mm gauges.
Parts and Accessories.

Catalogue No. 17

THE INFORMATION CONTAINED IN THIS CATALOGUE WAS CORRECT AT THE TIME OF PRINTING.

EVERY EFFORT WILL BE MADE TO MAINTAIN THE PRICES SHOWN BUT WE RESERVE THE RIGHT TO INVOICE AT THE PRICE RULING ON THE DATE OF DESPATCH.

THE COMPANY HAS A POLICY OF CONTINUOUS PRODUCT IMPROVEMENT AND WE RESERVE THE RIGHT TO CHANGE SPECIFICATONS AND PRICES WITHOUT PRIOR NOTICE.

We are always pleased to discuss our products at shows, on the phone or by e-mail but we regret that we are not able to receive callers at our premises.

WE REGRET THAT DUE TO RESTRICTIONS IMPOSED BY OUR INSURANCE COMPANY WE ARE UNABLE TO SUPPLY GOODS TO THE U.S.A. OR CANADA.

CONTENTS

INTRODUCTION AND CURRENT DELIVERY TIMES	3
SENTINEL BACKGROUND	4
BATTERY ELECTRIC SENTINEL LOCO.	5
SENTINEL FOR G SCALE.	7
ROLLING ROAD	9
LOCO AND ROLLING ROAD PICTURES.	12
DIGITAL READOUT FOR ROLLING ROAD	14
ROLLING ROAD PLASTIC WHEEL SUPPORT	16
ROLLING ROAD 150MM EXTENSION	17
INSULATED ROLLING ROAD FOR G SCALE, GAUGE 1	18
PRICE LIST OF ACCESSORIES.	20
PRICE LIST OF COMPONENTS.	21
LINING.	22
PAYMENT	22

Introduction.

Although we have now ceased manufacture of live steam locomotives we can still supply a range of components for the home builder including boilers, gas tanks, burners and safety valves.

Details are at the back of this catalogue.

We also supply a range of accessories for use with steam and battery powered locos. These include Gas Inlet Valves, Gas Jets, Steam Oil, Gas can adapters and a range of O rings.

A full list is at the back.

We are currently developing a range of steam outline locomotives based on the post-war Sentinel. These are electric or battery electric locomotives.

We hope to have the first of these ready for despatch during the summer.

All our products are hand built with care and attention to detail and carefully checked before despatch.

We regret that for insurance reasons customers are not able to collect their locomotives from our works.

Delivery is charged extra at the Post Office rate ruling on the date of despatch.

In the U.K. we use a guaranteed next day insured delivery service for larger and more expensive items. Smaller items are sent first class, recorded.

Sentinels for 32mm and 45mm gauges.

The Sentinel Waggon Works of Shrewsbury were the largest manufacturer of steam road vehicles. Their first models were built in 1905. In 1923 they introduced their first rail vehicle, a narrow gauge 0-4-0 shunter. This was basically the same power plant as the road wagons with vertical boiler, 2 cylinder engine and chain drive to the axles. Over the years between the wars they built a range of locomotives and railcars in various sizes. Many were narrow gauge and used in industry but several of the main line companies had some Sentinels.

Between 1925 and 1930 the LNER bought 74 Sentinel railcars.

Sentinel ceased making main-line locos in 1937 but the small shunting locos continued until the war. After the war production restarted with a revamped 100hp 0-4-0 shunter with a streamlined appearance and a conventional locomotive type cab.

In 1947 they were again restyled taking on a more angular appearance.

In 1952 they introduced a 200hp version which had two of the two cylinder engines

Between 1923 and 1958 they built more than 600 steam locomotives.

My model is based on the post 1947 vertical boilered 100hp steam locomotives. These were mainly standard gauge locomotives but they were available in this style down to 3ft gauge. They featured a vertical boiler in the cab at the rear, a two cylinder steam engine fitted vertically in front of the front axle and a 500 gallon water tank between. A two speed gearbox was integral with the engine crankcase and a 2:1 reduction was provided by the chain drive to the front axle. Most had internal chain drive between the axles but a few had external cranks and coupling rods.

In low gear these locos could pull over 1000 tons on the level.

They were made with various detail differences according to the customers requirements. Position of handrails and steps varied widely.

Some had rear coal bunkers, some did not.

Some had dropped cab floors to give extra headroom for the crew.

My model is not intended to be a representation of any one particular loco, but rather is typical of the range and contains features from several prototypes.

Battery Electric Sentinel for 32mm Gauge.



This is a battery electric model based on the post 1947 Sentinel vertical boyled steam locomotives . These were mainly standard gauge locomotives but they were available in this style down to 3ft gauge.

The model is not intended to be a representation of any one particular loco, but rather is typical of the range and contains features from several prototypes.
 Length over buffer beams 9" (228mm) Width – 4" (102mm)
 Height above rail – 5 1/2" (140mm) Weight approx 2kg.

The model is built to a scale of 16mm / ft for 32mm gauge and has a high mechanical specification. It comes with a comprehensive instruction manual.

Features include

- Laser cut frames, outside cranks and coupling rods
- Bodywork from chemically etched nickel silver.
- White metal and brass fittings for added detail.
- Name and number plates of your choice.
- Sintered phos. bronze bearings for axles.
- Precision motor / gearbox unit with metal gears.
- 9.6 volt ni-mh battery. Only one screw to undo to replace the battery.
- External battery recharging socket.
- Directional front and rear lights.
- Optional rear coal bunker.
- Wheels are **not** insulated.

Standard colour scheme:-

frames and frame fittings	satin black
fly-cranks and buffer beams	red
footplate and roof	satin black
bodywork choice of -	maroon, dk.green, dk. blue,

Other single bodywork colours by arrangement at the time of ordering at an extra cost of £30.00

The loco is fitted with the large round buffers which are such a visual feature of the prototype.

A centre hook and chain coupling is normally fitted but a wide range of other coupling types can be fitted.

Some fittings may involve a small extra charge.

There is a choice of control systems

Manual.

Electronic speed control on this version is achieved by rotating the projecting part of the chimney.

On / off switch and reversing switch in the cab.

Radio control.

2.4 GHz radio control with full proportional speed control in forward and reverse.

Four channel radio supplied complete with rechargeable batteries.

One channel controls speed and direction (centre off position)

On / off switch in the cab.

Price.	Manual control	£660.00
	Radio control	£760.00

Postage extra at cost. (currently £22.50)

Some alternative couplings.



Sentinel for G Scale.



This is an electrically powered model based on the post 1947 Sentinel vertical boyled steam locomotives. These were mainly standard gauge locomotives but they were available in this style down to 3ft gauge.

The model is not intended to be a representation of any one particular loco, but rather is typical of the range and contains features from several prototypes.
 Length over buffer beams 9" (228mm) Width – 4" (102mm)
 Height above rail – 5 1/2" (140mm) Weight approx 2kg.

The model is built for 45mm gauge and has a high mechanical specification. It comes with a comprehensive instruction manual.

Features include

- Laser cut frames.

- Bodywork from chemically etched nickel silver.

- White metal and brass fittings for added detail.

- Name and number plates of your choice

- Proprietary power bogie, 45mm gauge. 4 wheel drive.

- 4 wheel pickup from the track with boost capacitor for smoother drive.

- Directional front and rear lights.

- A DCC decoder for digital or analogue operation.

- Smoke unit, cab light and flickering firebox effect..

- Compatible with LGB and Massoth systems.

- Optional rear coal bunker.

Standard colour scheme:-

frames and frame fittings	satin black
buffer beams	red
footplate and roof	satin black
bodywork choice of -	maroon, dk.green, dk. blue,

Other single bodywork colours by arrangement at the time of ordering at an extra cost of £30.00.

The loco is fully compatible with LGB and Massoth systems and will work happily on both analogue and digital control

As standard the loco is fitted with an LGB loco decoder but alternatively it can be fitted (at extra cost) with a sound decoder and speaker to give full sound effects. The cost of this would have to be quoted at the time of ordering but is likely to be in the region of £100 extra.

The smoke unit and directional lights will work on both systems but of course the sound is digital only..

The loco is fitted with the large round buffers which are such a visual feature of the prototype.

A centre hook and chain coupling is normally fitted but a wide range of other coupling types can be fitted.

Some fittings may involve a small extra charge.

Price. £760.00 approx.

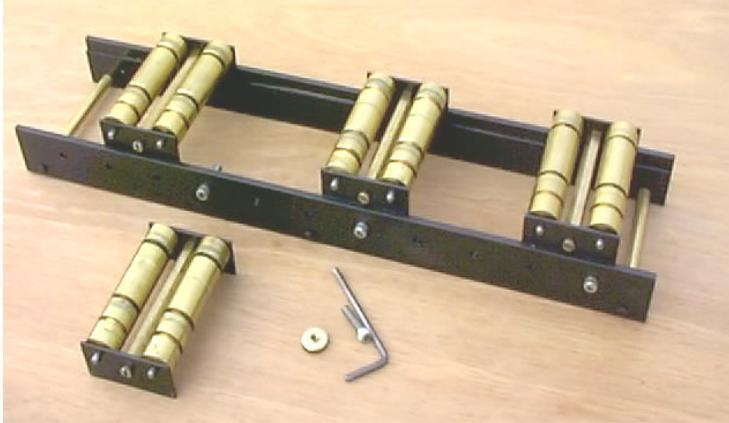
Postage extra at cost. (currently £22.50)



ROLLING ROAD.

Type 1.

(non-insulated, for steam & battery electric locos.)



What it does.

The Rolling Road allows you to run your locomotive under power for demonstration or testing purposes or just for the sheer pleasure of watching it run without having to follow it around the track. Simply slide a wheel carrier into place beneath each pair of driving wheels and engage the wheel flanges in the appropriate grooves. Adjust the position of the wheel carriers until all wheels are correctly located and then just lightly clamp one of the carriers to the frame. Support any non-driven axles on further Wheel Carriers or Wheel Support Blocks. Fire up the loco and away you go. You can run your loco in comfort on those dark, wet, cold winter evenings. It is better than simply supporting the ends of the frames on blocks because the loco is having to do a certain amount of work to turn the rollers and normal running conditions are simulated more realistically. It is particularly beneficial for locomotives with sprung axles which may require the weight of the locomotive to be on the wheels to enable the valvegear to function at its best. This is an attractive and well-made product offered at a very competitive price. It can easily be adapted by the customer to the requirements of any particular locomotive.

Application.

The rolling road has been primarily designed for use with steam, battery powered or clockwork narrow gauge locomotives in 16mm and G scales using 32mm and 45mm gauge track. There is no problem in using the rolling road with locomotives in other scales using the same track gauges. The wheel carriers can be butted closely together but the minimum distance between centres of driven wheels that can be accommodated is 38mm. (1.50"). The rolling road is not insulated in any way and is not suitable for electric locomotives that rely on pickup of current through the wheels.

Specification.

The standard unit comprises a Base Unit which is nominally 300mm long (11 7/8") and comes complete with three Wheel Carriers.

The sides are made from mild steel, chemically blackened. Brass spacers hold them the correct distance apart. A row of holes near the top edge of one side allows the individual carriers to be clamped in any position along the length using the socket screws and clamping nuts provided.

Each wheel carrier has two brass rollers with hardened steel bearing shafts. The rollers have three grooves to suit all normal wheel profiles in 32 and 45mm gauges and will accommodate wheel flanges up to 3mm deep.

The carrier endplates are mild steel, chemically blackened. The spacer is brass.

The chemical blacking process is both decorative and an aid to rust prevention but the mild steel parts of this product should be kept lightly oiled.

Product Variations.

A longer Base Unit can be provided (400, 500 or 600mm length) at extra cost, together with more (or less) of the Wheel Carriers.

Wheel Support Blocks can be provided to support non-driven tender or bogie wheels or customers may prefer to rig up extensions at the ends for these wheels . To help in this, additional holes are provided in the side frames at each end to which wooden or metal extensions could be fixed at the appropriate height.

Rollers can be grooved to other gauges between 32 and 45mm if required. (at extra cost)

Please ask for a quotation for your special requirements.

Price - standard unit

300mm Base Unit complete with 3 Wheel Carriers,

3 clamping screws with nuts, 1 hex wrench

1 Instruction leaflet. £78.00

Postage £8.65 extra.

Prices - individual components

Wheel Carriers £17.00 each.

300mm Base Unit £27.00.

400mm Base Unit £36.00

500mm Base Unit £52.00

600mm Base Unit £ 67.00

Postage £8.65 extra on each unit.

All wheel carriers come with a clamping screw and nut.
All base units include a hexagon wrench for the clamping screws and an instruction leaflet.

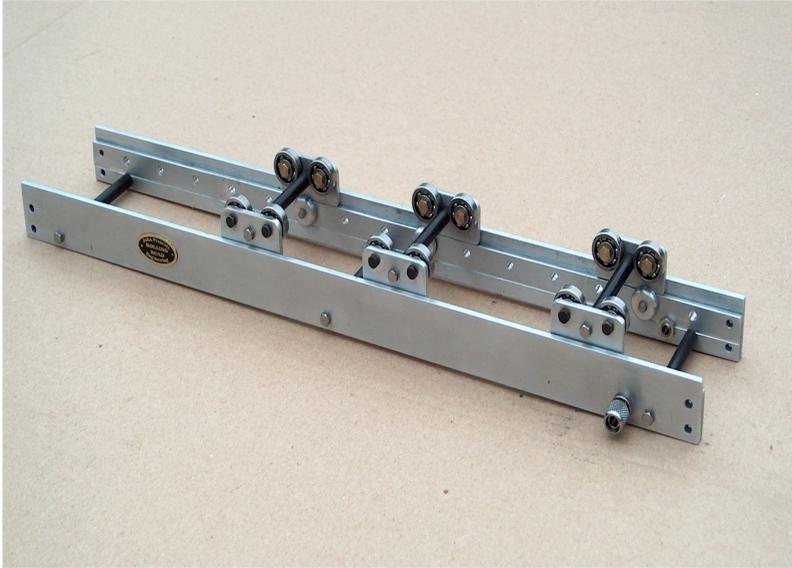
Track Powered Sentinel Loco for G scale.



Sentinel Battery Locomotive for 32mm.



Insulated Rolling Road for 45mm.



Standard Rolling Road, 32 & 45mm for Steam & Battery locos.



Digital Readout for Rolling Road.



GENERAL.

The digital readout computer is powered by a small "watch" type battery (included). It senses the rotation of one of the rollers by counting impulses from the magnet embedded in it.

In order to display distance and speed in scale terms it needs to be programmed with the circumference of the roller in scale terms. It counts the revolutions and converts it into scale distance in miles or kilometers.

It uses its clock reference to calculate scale speed to display in miles /hour or kilometers / hour. When operating it displays both the speed and distance on the screen at the same time.

The unit is suitable for 16mm/SM32, Gauge 1, Gauge 0, G scale 1:22.5, G scale 1: 24, G scale 1: 29

It comes to you ready to use and calibrated for the scale you choose at the time of ordering.

If at a later date you wish to use it with locomotives of a different scale you will need to re-calibrate it. This is quick and easy to do and full instructions are included.

There is no OFF switch. The unit needs minimal power to retain data and display the clock.

The unit powers down automatically after about 10 minutes without activity.

If the unit is to be unused for a considerable time you may wish to remove the battery, but be aware that you will lose all the stored data. The main unit is easily removed from the bracket by pressing back on the lever at the bottom of the bracket and sliding the main unit upwards. For convenience, all re-calibration can be done with the main unit removed from the bracket.

BATTERY.

The unit uses one LR44 "watch type" battery. In normal use, a good quality battery should last about 12 months.

When the LCD display begins to dim the battery should be replaced.

FUNCTIONS.

The unit has four main functions

Odometer. The Odometer accumulates the total distance covered. (up to 19999.9 Km or Miles)

This data can only be cleared by removing the battery or pressing the "All Clear" button.

Trip Distance. This function accumulates and displays the distance data from the last press of the "Reset" button.

This is the equivalent of the "trip" function on your car speedometer.

It records up to 999.9 Km or Miles.

12 Hour Clock. It displays the current time on a 12 Hour clock when the unit is powered down..

Current Speed. The current speed is displayed on the 4 digits whenever the rollers are revolving.

It displays up to 199.9 Km/h or 120.0 Miles/h

A Calibrating and Setting Instructions leaflet is included to give more detailed operating information.

A new free-standing unit has been developed for the actual display head which allows greater flexibility because you can move the position and angle of the display to suit your requirements.

The original mounting attached to the left hand end of the base unit has been discontinued. The actual electronics remain unchanged.

PRICES.

If supplied with a new RollingRoad then one of the wheel carriers will be modified to operate the readout.

The extra cost will be £24.95. The postage rate will not be affected.

If supplied as an upgrade to an existing Rolling Road the price will be £40.95 if a new wheel carrier is supplied

or £30.95 if an existing wheel carrier in good condition is returned for modification.

In both these cases a charge of £2.95 will be payable for postage.



Rolling Road - Wheel Support Blocks.



The Wheel Support Block is a black polyurethane rigid casting designed to support non-driven wheels on tenders, bogies and pony trucks.

It can be placed at any point along the Rolling Road and slides along the inner frame in the same way as the standard wheel carriers. It does not need to be secured in any way since the wheels it supports are not moving.

It needs no maintenance apart from wiping off any oil or dirt that may be deposited on it.

It will withstand temperatures of over 100°C but it will burn if a direct flame is applied to it.

It should be kept well clear of methylated spirit burners.

This is an attractive and well-made product offered at a very competitive price.

Saves the cost of buying a normal wheel carrier with rollers..

Price. The Wheel Support Block costs only **£6.00 each**.

Postage **£2.20** extra (covers up to three wheel supports)

(Postage is free if ordered with a Rolling Road.)



300mm Rolling Road set up to support an 0-4-2 locomotive

Rolling Road 150mm Extension.



The Rolling Road extension piece is designed for owners of our Rolling Roads who now need to run a locomotive that is too long to be accommodated on their existing rolling road.

The extension simply bolts into place at the end of your existing base unit using the holes already present in the ends and the 6BA nuts and bolts provided.

It is intended to be installed at the right hand end of the rolling road. (i.e the end furthest from the makers nameplate)

Your wheel carriers fit on the extension exactly as on the main unit and if you now have non-driven tender or bogie wheels the new wheel support blocks will fit as well.

It is constructed from the same chemically blackened mild steel as the original and has a matching brass spacer.

As with the original, the chemical blacking process is both decorative and an aid to rust prevention but the mild steel parts of this product should be kept lightly oiled.

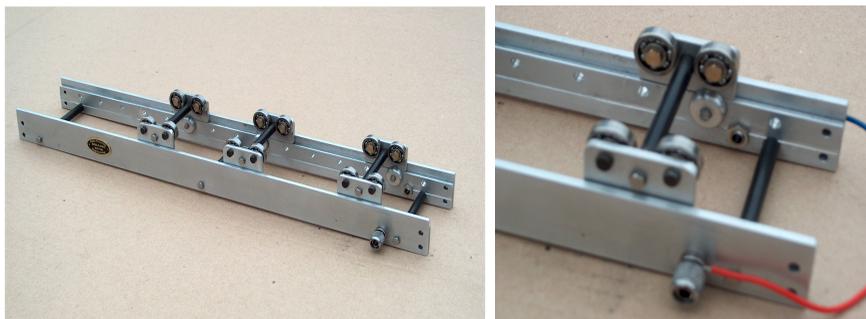
This is an attractive and well-made product offered at a very competitive price. Saves the cost of buying a new longer base unit.

Price.

The 150mm Extension Unit comes complete with jointing plates and all necessary screws and nuts and is only **£17.00**.

Postage **£3.10** extra.

Insulated Rolling Road Type 2 for Electric Locomotives in 45mm gauge, G scale and Gauge 1.



This rolling road is intended for use with electric powered locomotives using 45mm OR 32mm gauge track.

It may also be used with battery powered, clockwork or live steam locomotives but it is not recommended for coal fired steam power.

It is used in the same way as the original rolling road for steam locomotives and it follows the same general design. There is however one major difference - the two sides are electrically insulated from each other. The spacers are of a rigid insulating plastic and the transverse rollers are replaced by roller bearings.

In use simply slide a wheel carrier into place beneath each pair of driving wheels. Adjust the position of the wheel carriers until all wheels are correctly located and then just lightly clamp ONE of the carriers to the frame. Support any non-driven axles on further Wheel Carriers or suitable blocks. Connect the output from your power pack to the terminals on the end of the unit and away you go.

**UNDER NO CIRCUMSTANCES SHOULD YOU CONNECT
MAINS ELECTRICITY DIRECTLY TO THIS UNIT.**

You can run your loco in comfort on those dark, wet, cold winter evenings. It is better than simply supporting the ends of the frames on blocks because the loco is having to do a certain amount of work to turn the rollers and normal running conditions are simulated more realistically. It is particularly beneficial for locomotives with sprung axles which may require the weight of the locomotive to be on the wheels to enable the valvegear to function at its best.

The wheel carriers can be butted closely together but the minimum distance between centres of driven wheels that can be accommodated is 39mm. (1.54").

This unit can also be used as a programming track when programming locomotive decoders on a DCC system.

The Digital Readout system is not available on this product.

Specification.

The standard unit comprises a Base Unit which is nominally 400mm long (15.75") and comes complete with three Wheel Carriers.

The sides are made from polished Aluminium Alloy. Insulating plastic spacers hold them the correct distance apart. A row of holes near the top edge of one side allows the individual carriers to be clamped in any position along the length using the socket screws and clamping nuts provided.

Each wheel carrier has four 16mm diameter roller bearings on which the loco wheels run. The rollers willl accommodate wheel flanges of any depth.

The carrier endplates are made from the same aluminum alloy as the frames. The spacer is insulating plastic.

Most parts of this product are non-ferrous, stainless steel or plastic. The bearings however are chrome steel and may rust if allowed to remain in damp conditions. They should be kept lightly oiled.

Product Variations.

Available in 32mm OR 45mm gauge. No dual gauge version.

Alternative Base Units can be provided (300, 500 or 600mm length) together with more (or less) of the Wheel Carriers.

Customers with longer locos may prefer to rig up extensions at the ends to support non-driven tender or bogie wheels. To help in this, additional holes are provided in the side frames at each end to which wooden or metal extensions could be fixed at the appropriate height.

Price - standard unit

400mm Base Unit complete with 3 Wheel Carriers,
 3 clamping screws with nuts, 1 hex wrench
 1 Instruction leaflet. £93.00
 Postage £6.70 extra.

Prices - individual components

Wheel Carriers	£ 20.00 each.
300mm Base Unit	£24.00.
400mm Base Unit	£33.00
500mm Base Unit	£49.00
600mm Base Unit	£ 64.00
Postage £6.70 extra on each unit.	

All wheel carriers come with a clamping screw and nut.

All base units include a hexagon wrench for the clamping screws and an Instruction leaflet

Price List of Accessories

Compound Steam oil ISO 460	180ml. bottle	£2.75 each
Compound Steam oil ISO 460	500ml. bottle	£5.80 each
Gas inlet valve with sealing washer (Ronson type)		£3.80 each
Gas valve mounting bush for above		£1.50 each
Gas valve fitting / removal tool		£6.20 each
Gas valve washers - replacements		£0.25 each
Gas match, butane, refillable		£2.00 each
Gas jet no.5 Standard length, 1BA thread		£1.30 each
Gas jet no.5 Reduced length, 3/16" x 40 ME thread		£1.80 each
Gas jet pricker		£0.90 each
Gas can adapter - standard	50mm reach	£7.90 each
Gas can adapter - long	66mm reach	£8.90 each
Gas can adapter - extra long	78mm reach	£10.60 each
Plastic syringe 60ml capacity		£1.50 each
Gasket material 0.25mm thick	5" x 4" approx	£0.30 each
Gasket material 0.4mm thick	5" x 4" approx	£0.30 each
O rings - 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" o/d.		
- nitrile, pack of six (all one size)		£0.60 pack
pack of six (one of each size)		£0.60 pack
- silicone, pack of six (all one size)		£1.20 pack
pack of six (one of each size)		£1.20 pack
- nitrile, asstd small sizes, 3, 4, 4.5, 5mm o/d		£0.60 pack
Pack of eight (2 of each size)		
Nitrile for general sealing - Silicone for steam glands and piston seals.		
Sintered bronze oilite flanged bushes for axles.		
- 3/8" long x 5/16" o/d x 3/16" i/d		£5.00 pair.

Orders gladly taken for postal despatch.

Steam Oil is available by post only in the 180ml size - postage £3.00 extra
Gas matches cannot be sent through the post.

We regret that we are unable to receive callers at our premises.

Price List of Component Parts

Boiler, 2" dia x 4 1/2" long with single flue. For internal gas firing. Other sizes available Supplied with manufacturers test certificate.	£95.00 each
Burner	£22.00 each
Gas jet and holder assembly for above	£9.50 each
Gas tank with inlet valve and regulator	£75.00 each
Steam regulator	£20.00 each
Pressure gauge for above. 3/4" dia. 0 - 80 PSI.	£24.50 each
Safety valve - 3/8" x 26 tpi. "pop" action	£12.95 each
5/16" x 32 tpi "pop" action	£12.95 each
Other threads available to order.	
Displacement lubricator	£16.00 each
Drain plug key for lubricator	£5.00 each
Water feed check valve	£15.00 each
Boiler bush, Washers and Banjo bolt for above	£8.00 each
Water feed pressure bottle and fittings	£15.00 each
Lost wax smokebox casting in brass	
- unmachined	£22.00 each
- machined for 2" diameter boiler	£25.50 each
- complete with dart and chimney	£32.50 each
Smokebox dart - stainless steel - 6BA thread	£7.00 each

Postage and packing extra on Accessories and Component Parts.

Order value up to £8.00 - £2.50

Order value over £8.00 up to £25.00 - £5.00

Over £25.00 please ask.

We can quote for your special requirements of turned or milled parts.

Small quantities a speciality.

Lining.

Our locomotives are painted in the colour of your choice and have etched brass name and number plates fitted but no lining or lettering is applied.

The Sentinel was basically an industrial shunter and most had a simple one colour finish.

If you require lining, we have an arrangement with Geoff Munday of 'Lightline' whereby we can send the finished painted bodywork parts to him for lining prior to final assembly.

This saves time and postal expense. It would be for you to agree your requirements directly with Mr. Munday and to arrange payment to him.

Payment for the loco would be required before the parts were despatched to 'Lightline'.

A FULL PARTS REPLACEMENT AND REPAIR SERVICE IS AVAILABLE FOR OUR CURRENT LOCOS AND ROLLING ROADS. PRICES QUOTED FOR INDIVIDUAL REQUIREMENTS.

We are always pleased to discuss our products at shows, on the phone or by e-mail but we regret that we are not able to receive callers at our premises.

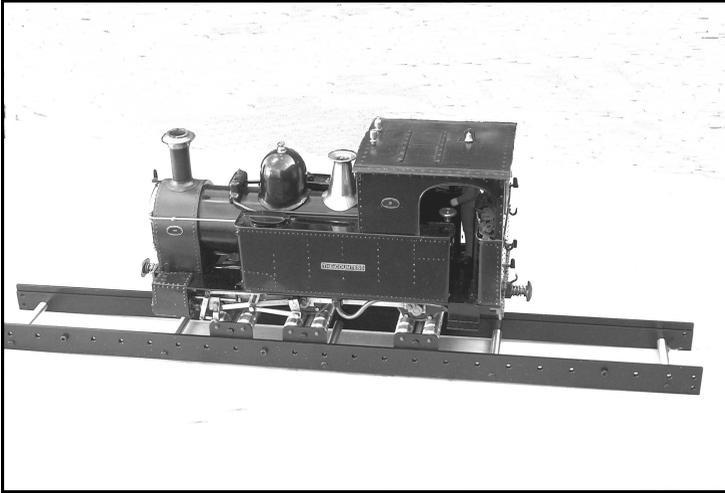
WE ARE HAPPY TO ACCEPT PAYMENTS BY CHEQUE.

WE REGRET THAT WE ARE NOT ABLE TO TAKE CREDIT CARDS PAYMENTS DIRECTLY.

WE CAN HOWEVER ACCEPT "ON-LINE" PAYMENTS USING "PAYPAL" - THE INTERNATIONAL SECURE PAYMENTS SYSTEM.

YOU CAN USE YOUR CREDIT CARD ON-LINE TO MAKE PAYMENTS THROUGH PAYPAL EVEN IF YOU DO NOT HAVE A PAYPAL ACCOUNT. E-MAIL OR PHONE US FOR DETAILS. (NOT AVAILABLE ON GOODS TOTTALLING LESS THAN £5.)

GOODS WILL NOT BE SENT UNTIL PAYMENT HAS BEEN CLEARED.



Countess locomotive on a 600mm Rolling Road.

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