

BLACK LABEL Just how good is Dapol's new 'A4'?



MODEL RAIL

No. 234 May 2017 £4.10

20 BEST BRITISH CLIMBS you have to model

- ✓ Track plans
- ✓ Gradient profiles
- ✓ Inspirational photography

PLUS

Hill climbing hero
Create a Tebay banker
this weekend

Evening project
Build a narrow
gauge incline

REVIEWED

- › Dapol Class 68
- › **LLC Class 15**
- › Farish Autocoach
- › **Peco slate wagons**



Revealed: The £10
plant pot ship for
your harbour



22
pages of
PROJECTS
ADVICE &
TOP TIPS

Workbench

- › Re-number RTR locomotives
- › Simple tweaks to create realistic people
- › Build your own funicular railway



THE RIGHT SIGNALS
Plug-in working
signals too good to be
true? Find out inside!



**WOODLAND
SCENICS®**

Water System



Woodland Scenics have worked hard to produce an entire system of water products to help modellers create their own custom water scenes. Nineteen new products join Realistic Water (WC1211) and Water Effects (WC1212) to make a complete Water System! Please click on the YouTube logo on our homepage for tutorial videos!

Water Undercoats

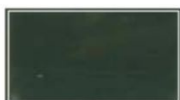
Add colour and seal your water base all at once with Water Undercoats.



Deep Blue
WCW4530



Navy Blue
WCW4531



Hunter Green
WCW4532



Moss Green
WCW4533



Olive Drab
WCW4534



Yellow Silt
WCW4535

Deep Pour Water™ & Realistic Water™

Use Deep Pour Water to create submerged scenes and depth with one pour. Customize Deep Pour Water with other Water System products. Realistic Water models still or slow-moving water, such as ponds, rivers, lakes and more.

Deep Pour Water™ - Clear
WCW4510

Deep Pour Water™ - Murky
WCW4511

Realistic Water™
WC1211

Water Tints

Water Tints add colour to water products while achieving authentic depths and shallows.



Navy Blue
WCW4519



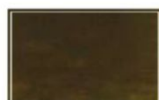
Turquoise
WCW4520



Moss Green
WCW4521



Sage Green
WCW4522



Olive Drab
WCW4523



Yellow Silt
WCW4524



Murky
WCW4525

Surface Water, Whitewater Highlight & Dust Dabber™

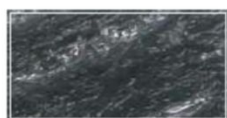
Model splashes, waves and movement with Surface Waters. Use White Water Highlight to accent details of your water feature.



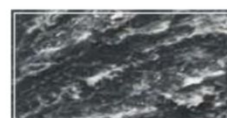
Water Effects™
WC1212



Water Ripples
WCW4515



Water Waves
WCW4516



White Water Highlight
WCW4529



Dust Dabber™
WCW4529



Please visit www.bachmann.co.uk to view tutorial videos
Model, Collect & Create

Opening the box

2 YEARS OF
MODEL RAIL
FOR THE
PRICE OF **1**
TURN TO PAGE 62



JACQUES PORTAL

There are divisions in every hobby and railway modelling is no exception. Diesel versus steam, or 'OO' versus 'N' are obvious examples, but one that often goes under the radar - at least until it pops up on internet forums - is that of collector versus modeller.

It seems that some modellers take a dim view of collectors. What's the point, they say, in buying a model and leaving it in a box, or on a shelf? Surely the point is to watch it work, and see it mimic the real thing?

The beauty of any hobby, however, is that everyone can take something different from it. There's nothing wrong with buying a model and not using it on a layout. There are plenty of railway enthusiasts who have no interest in owning a layout, but who want a model of their favourite locomotive. You won't have room in your study for a real 'Black Five' but Hornby's model will sit nicely on a shelf for you to enjoy.

Most layout owners will have some sort of collection. We often read descriptions of layouts that have been built, for example, to house someone's collection of Class 37s. Just because they're on a layout and not left in their packaging and boxes doesn't make them any less of a collection. As you'll read in this issue, I have six Bachmann Ivatt '4MTs'. It's not a huge collection by some standards (former A1 Trust Chairman Mark Allatt, photographed above, has all 79 Gresley 'A4s' and 'A3/A1s' - see MR184) but my desire for historical accuracy has led me to invest in something that most people would consider unusual!

There's something in all of us that compels us to collect things, whatever our interest. One may be more socially acceptable than another, but is Dave Lowery's 200 Matchbox Ford RS200s, or Chris Leigh's wall covered with celebrity autographs any different to a football supporter who buys Manchester United home, away and training strips, not to mention duvet covers, curtains and even floor rugs?

We all contribute to the model railway economy, and our purchases are usually selective - most of us don't buy one of everything. But some collectors do. Most of us would balk at spending a couple of hundred pounds on a model. However, the museum-quality sector of the model industry, where four-figure sums are common - seems to be booming. Unless there are lots of layouts out there full of exquisitely detailed model locomotives, it's probably fair to say that most of them are providing a visual treat on a shelf somewhere.

Which brings me onto the subject of Dapol's Black Label brand. Dapol should be given full credit for dipping a toe in the water with a model designed to appeal to the collector end of the market, but at a three-figure price that more of us can afford. Thanks to Dapol, we've got one of its new models to review - turn to page 24 to read our assessment of this bold new venture that goes a long way to bridging the gap and mitigating at least one contentious issue in our hobby.

Richard Foster

MEET THE TEAM

Q: What is your most prized collectible?



Richard Foster

Editor
My small railwayana collection, starring South Lynn running-in board and a chair 'obtained' from Dinorwic slate quarry.



George Dent

Deputy Editor
1970s Liverpool FC programmes, especially the European cup games against Ajax, St. Etienne and Barcelona.



Chris Leigh

Consultant Editor
Letters from Hayley Mills and Rod Stewart and a signed photograph of my favourite actress, Jenny Agutter.



Mike Harris

Staff Writer
A 1950s re-issue Fender Stratocaster à la Buddy Holly. I'd dearly love to own an original - *That'll Be the Day...*

Regular Contributors



Peter Marriott
Scenics Specialist



Chris Nevard
Photographer



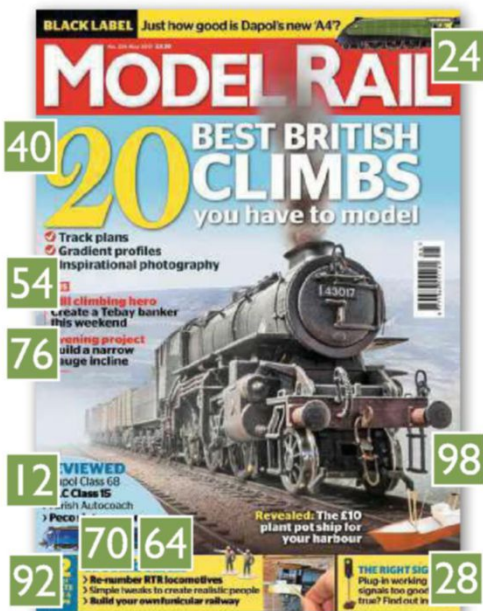
Dave Lowery
Modelling Consultant



Ben Ando
Modern image 'N' gauge



Paul A. Lunn
Layout design Consultant



Cover: CHRIS NEVARD



What's New

- 06 **Big Picture**
Welcome to this hill-climbing issue with a momentous occasion on the Lickey.
- 08 **News**
Model Rail/Rapido Trains 'J70' passes its first milestone as Class B gets the nod.
- 12 **Reviews**
Dapol's Class 68, Little Loco Company's Class 15 and 'N' gauge stock from Peco and Farish are examined by our experts.
- 24 **Dapol Black Label 'A4'**
Richard Foster tests Dapol's first Black Label model to see if it makes the grade.
- 28 **Install sensor signals**
Guiding light Chris Leigh has an illuminating experience installing automatic signals.

Features

- 30 **Windmill Terminal**
Paul Rolley's masterclass in using simple techniques to create something that's far more than the sum of its parts.
- 40 **20 best climbs**
Richard Foster picks 20 spectacular sections where locomotives do battle against gravity.
- 80 **Brixcombe**
Farnham & District MRC members are aiming for 'P4' perfection with this quintessential GWR branch line.



Looking for an article from
a previous issue of MR?
Search the online index at:
www.ukmodelshops.co.uk/ModelRail



30



76



54

Regulars

- 11 **Exclusive 'USA' offer**
Order our exclusive 'OO' gauge
'ready-to-run' 'USA' 0-6-0Ts.
- 62 **Subscribe to *Model Rail***
Turn to page 62 for this month's
special offer.
- 90 **Show & Tell**
Another selection of YOUR
modelling projects.
- 106 **Q&A**
Model Rail's team of experts answer your
questions.
- 110 ***Model Rail* exclusives**
Order your limited edition
Model Rail models.
- 112 **Exhibition Diary**
What's on in your area.
- 144 **Index of Advertisers**
- 145 **Backscene**
The Old Sage Chris Leigh offers some
more modelling miscellany.
- 146 **Next Issue**
A sneak peak at what's in store for the
next exciting issue of *Model Rail*.

Workbench

We show you how...

- 54 **Create a Shap soldier**
To mark the 50th anniversary of the
closure of Tebay shed, George Dent
recreates one of its Shap bankers.
- 64 **All figured out**
You've created the model railway, but
now you need to make your cast of
miniature figures act like the real thing.
- 70 **Re-number an RTR loco**
Richard Foster shows you the right
way (and the wrong way) to apply new
numbers to your models.
- 76 **Build an incline diorama**
Peter Marriott takes a fresh angle on
narrow gauge modelling with this
winding house diorama.
- 92 **Build a funicular railway**
Modeller and author Graham Goodchild
puts the fun into funicular with this
scratchbuild project.
- 98 **Turn a planter into a ship**
Paul A. Lunn has a view to a keel as he
converts a cheap plant pot into a 'OO'
gauge ocean-going ship.
- 102 **Kit-bash a swing bridge**
Taking a closer look at Dapol's range of
kits, Paul A. Lunn finds a different use
for an unloved turntable kit.



40

MODEL RAIL
PAY LESS WHEN
YOU SUBSCRIBE

TURN TO PAGE 62 TO
FIND OUT MORE

WANT MORE
BACKSCENE? VISIT
THE CHRIS LEIGH
BLOG HERE:

www.model-rail.co.uk/new-blog/



92

TO THE TRAINS ➡➡➡

BOTH: DR P. RANSOME-WALLIS/GETTY IMAGES



Welcome to this special issue of *Model Rail*, dedicated to Britain's steepest stretches of railway. In this issue you'll find numerous projects and sources of inspiration that star some of our most trickiest and dramatic railways. And where better to start than the Lickey Incline, the

two-mile, 1-in-37 climb to Bromsgrove in Worcestershire, seen through the lens of photographer Pat Ransome-Wallis in March 1950?

Talk about being in the right place at the right time - he was able to record ex-LMS Garratt No. 47982 clawing its way to the summit with a 42-wagon coal train, and being

given a helping hand by not only the regular Lickey banker, ex-Midland Railway 0-10-0 No. 58100, but also ex-LNER Garratt No. 69999.

That's six men, 38 driving wheels, ten cylinders and over 160,000lbs of power battling the forces of nature. What an awe-inspiring spectacle that must have been.





Model News

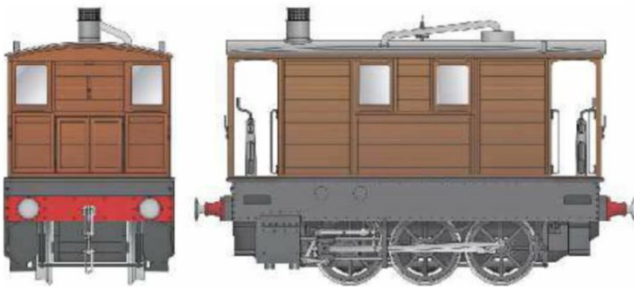
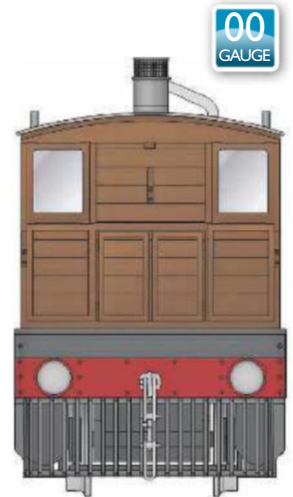
Model Rail brings you the biggest stories from the model railway trade and progress reports on products currently in development.

EXCLUSIVE: PROJECT J70 BREAKS COVER

The wheels have started to turn on *Model Rail*/Rapido Trains' Project J70 with this, the initial computer artwork. Rapido Product Developer Bill Schneider has created this artwork using works drawings from the National Railway Museum, as well as a host of prototype photographs. Rapido's engineers in China will use this artwork to produce the CAD from which the tooling will be produced. During this stage, the precise details about the mechanism, the location of the DCC socket and NEM coupler pockets will be confirmed.

At this stage, we are pleased to confirm that the model will be available with and without sideplates and that modellers will be able to have the end doors either opened or closed.

Liveries and running numbers will be confirmed once the CAD artwork is complete, and when we know what is and what isn't possible. Then we'll be able to open the order book. Keep an eye on *Model Rail* for further updates.



N GAUGE SHOW DATES

Diaries at the ready - dates have been announced for the 2017 International N Gauge Show. The UK's leading show dedicated to 'N' is to take place on September 9/10 at the Warwickshire Exhibition Centre, near Leamington Spa. This year's show is set to feature a special stand from the N Gauge Society that will celebrate its 50th anniversary.

■ For more information and to book tickets, go to www.ngaugheshow.co.uk

PERFECT TENEMENT

Smart Models has introduced a modular tenement building based on Fotheringhay Road in Glasgow. The downloadable kit, available in 'N' or 'OO', can be extended and is available in three colours.

Price: £6.99.

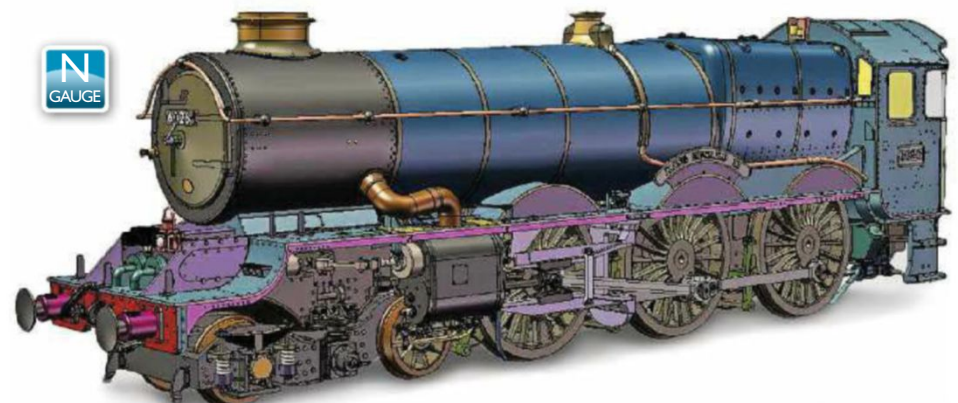
Availability: www.smartmodels.co.uk

ALL HAIL THE 'KING'

DJModels is to produce an 'N' gauge GWR 'King' - but only if enough people join its crowdfunding scheme. DJModels' version is to have an impressive specification, including coreless motor inside the locomotive, Next18 DCC decoder and

different bogies to suit different curve radii.

If you want one of the GWR's finest 4-6-0s to contemporary standards, you have until June 17 to register your interest. Visit www.djmodels.co.uk for full details.



...STOP PRESS...

Next issue's Model of the Month will be Hornby's superb new original 'Merchant Navy' 4-6-2 reviewed by Chris Leigh.



Got a news story or new product?

Send your press releases, details and high-resolution images to mike.harris@bauermedia.co.uk or telephone 01733 395149

'73s' SELLING FAST

Gaugemaster has commissioned six limited edition Class 73s from Dapol: 73142 *Broadlands* in 'Executive' grey, 73141 *Charlotte* in First GBRf purple, 73235 in South West Trains blue, 73202 in Southern green/white and 73101 in Pullman umber/cream as both *Brighton Evening Argus* and *The Royal Alex*. All versions are selling fast (at the time of writing, some had already sold

out) so place your order now to avoid disappointment.

Price: £69.95 each.

Availability: Gaugemaster.

Tel: 01903 884488.

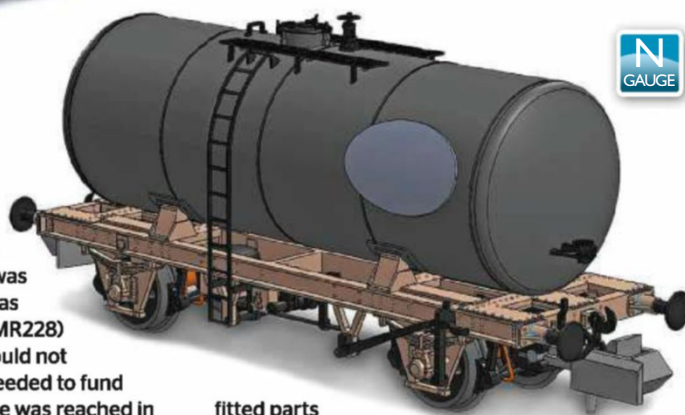
Web: www.gaugemaster.com



OIL'S WELL

Revolution Trains' 'Class B' oil tanker is to enter production... although the decision to do it was a close run thing. The model was proposed in November 2016 (MR228) and it appeared that orders would not reach the minimum number needed to fund production. However, the figure was reached in late February and work has now started.

The 'Class B' was introduced by BR in 1957, and Revolution's model, which will be produced by Rapido Trains, will feature similar levels of detail to the TEA bogie tanker, with photo-etched catwalks and ladders, and numerous separately



fitted parts representing brake

and discharge gear. Six liveries are proposed, but it has not been confirmed whether all will be produced.

Price: £19.95 each.

Availability: www.revolutiontrains.com



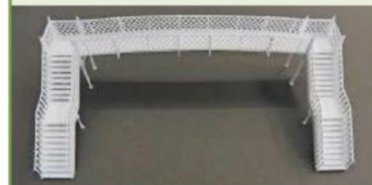
TAKE IT TO THE BRIDGE



York Modelmaking has unveiled its latest kit, a Great Northern Railway footbridge, based on a structure that once stood at Drighlington station, in West Yorkshire. The kit will feature a mixture of laser-cut and 3D-printed parts.

Price: TBC. **Availability:** York Modelmaking. **Tel:** 01904 400358.

Web: www.yorkmodelmaking.com



HOT 'DOGFISH'



Heljan's 'Dogfish' ballast hoppers are back... thanks to Kernow Model Rail Centre. Kernow has commissioned three 'Dogfish' four-packs in BR black, BR olive green and Civil Engineer's 'Dutch'. All wagons are weathered, using 'masters' produced by Mercig Studios. Each pack is limited to 300 pieces.

Price: £99.99 each.

Availability: Kernow Model Rail Centre. **Tel:** 01209 714099.

Web: www.kernowmodelrailcentre.com

YELLOW SLEEPER

Kernow Model Rail Centre has commissioned a limited run of Bachmann Class 57s as 57305 in Network Rail yellow. The Dellner-coupling fitted locomotive was hired by First Great Western in 2014 to haul the 'Night Riviera' sleeper where, thanks to its livery, it acquired the nickname 'Sand Castle'.

The model is limited to 512 pieces and is in stock now.

Price: From £169.95.

Availability: Kernow Model Rail Centre.

Tel: 01209 714099.

Web: www.kernowmodelrailcentre.com



HOSKING BUYS HORNBY HQ

Multi-millionaire locomotive owner Jeremy Hosking has bought the former Hornby factory at Margate. Mr Hosking's Locomotive Storage Ltd, part of his enterprise that includes 13 main line steam locomotives such as *Britannia*, *Blue Peter*, *Royal Scot*, *Bittern* and *King Edward I*, has acquired the historic site, which was the home of Tri-ang and then Hornby for 60 years.

LSL spokesman Peter Greenwood said: "The premises are somewhat larger than we need for our own purposes, and we would be happy to hear from interested parties who might also have a need for storage facilities, or indeed may have other propositions to put to us."

Hornby has moved its distribution operations to Canterbury and its offices to Sandwich. The Hornby Visitor Centre will remain on the historic site, the remainder of which requires a "degree of refurbishment" before it is brought into use.



MARK DYBALL/ALAMY



DRAGON'S BLESSING

North Western Models, an online model shop based in Stockport, Cheshire, has recently won a prestigious Small Business Sunday award from Dragons' Den star Theo Paphitis. The award recognises the achievements and successes of recently established small firms. Proprietors Kevin and Christopher received the award from Mr Paphitis at a ceremony in Birmingham in February. Go to www.northwesternmodels.co.uk to see its full range.

BALA MODEL SHOW

The Bala Lake Railway is to hold its second 'Bala Model Railway Show' on May 27/28. The show will follow the formula of 2016's weekend as the railway takes over the town's secondary school with 15 layouts in 'N', 'OO' and 'O', including an 'N' gauge take on nearby Llangollen station that is to visit from Ireland.

The BLR will run an intensive timetable, featuring as many of its

ex-Dinorwic, Penrhyn and Pen-yr-Orsedd quarry locomotives as possible, including newly restored Hunslet O-4-OST *George B*. The local Vintage Tractor Club will host the Bala Lake Festival of Transport adjacent to the BLR's Llanuwchllyn station.

■ For details, contact the BLR.

Tel: 01678 540666.

E-mail: info@bala-lake-railway.co.uk.



MALCOLM RANIERI/BLR

JOHN RUDD



DECAL DELUGE

Colas Rail's newly acquired brace of Class 67s have been hard at work since their acquisition, causing a stir in their eye-catching orange and yellow livery. Already, modellers are spoilt for choice in terms of dedicated decal packs for 67023/027, available from both Railtec Transfers and Precision Labels.

Each pack includes all necessary logos, numbers and embellishments, with packs being offered for 2, 4 and 7mm scales.

Availability: Precision Labels. **Web:** www.precisionlabels.com and www.railtec-models.com

'GATE STOCK' TWEAKED

Electrifying Trains has tweaked its ready-to-run ex-LSWR 'Gate Stock' to represent the vehicles in their original condition. The modifications include re-modelled driving coach front end, revised interior and original gas lighting posts. The models, which are all hand-built,

will be finished in LSWR 'salmon pink' and 'invisible green' (black).

Price: £1,395.

Availability: Electrifying Trains.

Tel: 02084 405918.

Web: www.electrifyingtrains.co.uk



STONEWALLED

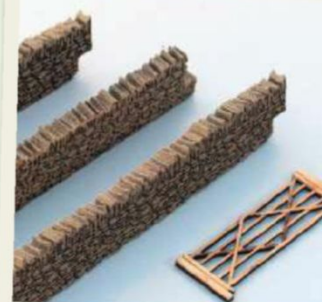
Osborn's Models of Bideford has introduced a pack of flexible Cotswold-style stone walling complete with a wooden laser-cut gate. It's suitable for various terrains and the pieces interlock.

There are three lengths of 18.5cm wall in each pack and it is easy to cut with a sharp blade.

Price: £8.95.

Availability: Osborn's Models. **Tel:** 01237 423453.

Web: www.osbornsmodels.com



EXCLUSIVE TO MODEL RAIL

USA TANKS

Our second exclusive 'OO' gauge locomotive project is the popular Southern Railway 'USA' 0-6-0T. Our model, produced by Bachmann, covers the detail differences between the 'USA' and the original USATC 'S100'.

DCC
READY

6
PIN

NEM



'USA' OF THE MONTH: MR-110 No. DS237 Maunsell

Maunsell is one of the brightest liveried 'USAs' we offer, thanks to the time it spent at Ashford works in the mid-1960s. Built by Vulcan Ironworks in 1943 as USA Transportation Corps No. 1968, it became one of the 15 'S100s' bought by the Southern Railway in 1947, where it became No. 65.

At nationalisation, the new No. 30065 was at work at Southampton docks until October 1962, when it joined classmate No. 30070 on departmental duties at Ashford works. Both were painted green, lined in yellow, and both were named - No. 30070 becoming DS238 *Wainwright* (named after the SECR locomotive engineer) whereas No. 30065 was christened DS237 *Maunsell* (after the Southern Railway's first Chief Mechanical Engineer).

The pair remained in traffic until July 9 1967, but they weren't sold until March 1968. *En route* to Barry scrapyard in South Wales, they got as far as Tonbridge before they began to run 'hot', and were left there until the August, when they were re-sold to the Kent & East Sussex Railway.

Maunsell was withdrawn from service at the KESR in early 2017, and now requires a full overhaul. Meanwhile, *Wainwright* should re-enter service this year, albeit painted in full Longmoor Military Railway livery.



MR-101: No. 1968, USATC black



MR-109: No. 30067, BR late emblem black (pristine)



MR-107: No. 36, National Coal Board black



MR-105: No. WD300 *Major-General Frank S. Ross*, LMR blue



MR-110: No. DS237 *Maunsell*, Departmental green



MR-108: No. 72, Keighley & Worth Valley Railway ochre

ORDER NOW

Tel: 01209 613984
www.modelrailoffers.co.uk

ONLY

£124.95

INCL. P&P

10% DISCOUNT FOR MR
SUBSCRIBERS, INCL. P&P

£112.46



PRODUCT
Dapol Class 68
diesel-electric
PERIOD
2014 - current
REGION
All

AVAILABILITY
Dapol stockists
USE WITH
Mk 3 coaches.
Modern freight
vehicles

PRICE
rrp **£168.40**

Looks
0 1 2 3 4 5 6 7 8 9 10
Performance
0 1 2 3 4 5 6 7 8 9 10
Features
0 1 2 3 4 5 6 7 8 9 10
Decoration
0 1 2 3 4 5 6 7 8 9 10
Value for money
0 1 2 3 4 5 6 7 8 9 10
RATING 94%



MODEL OF THE MONTH

DAPOL CLASS 68



A model that prompts **CHRIS LEIGH** to make an impulse purchase must be very special indeed - but what's his verdict, now he's given it the once-over?

Ever since Foster Yeoman went shopping for new locomotives in the USA, back in the 1980s, British train operators have increasingly been obliged to look overseas for new motive power. Not that there has been much requirement for locomotives beyond the Class 66, with just a small number of Alstom's Class 67s (Spain) acquired for special passenger train

hauling, and then the GE Class 70s (USA) for heavy freight.

Direct Rail Services set the ball rolling in 2012, however, with an order for mixed traffic locomotives designated Class 68. Intended for use on intermodal and passenger trains, the Class 68s began arriving in the UK in 2014. The initial order for 25 was increased to cover locomotives for lease to Chiltern Trains and ScotRail,

and a further batch is on order for TransPennine, bringing the total to 34. These will be followed by 15 electro-diesel versions, called Class 88.

The Class 68 is built by Vossloh (now Stadler) in Spain and is based on the company's EuroLight design, which complies with current EU emission regulations, reduced to fit the UK loading gauge and which Vossloh called UKLight. The aim was to meet



“THE MODEL BRISTLES WITH SEPARATELY FITTED DETAILS - MANY RENDERED MORE OBVIOUS BECAUSE THEY ARE IN CONTRASTING COLOURS”

the demand for a locomotive with an axle weight of under 20 tons, and an overall weight of under 80 tons, with high-power output and 100mph maximum speed. It is fitted with AAR (Association of American Railroads) push-pull equipment. Nos. 68006/007 are with ScotRail, and 68010-015 are with Chiltern, with 68008/009 modified to work also for Chiltern, but retain DRS livery.

TransPennine Express will use a minimum of 13 from August 2018, and these will be Nos. 68019-68032, with 68033/034 modified as spare locomotives.

Dapol has the licence to produce the Class 68 in 'OO' and 'N' gauges, although only the 'OO' model has so far been released. It is currently being offered in DRS, Chiltern and ScotRail liveries, and in DCC ready, DCC on-board and DCC sound versions.

FIRST IMPRESSIONS

The Dapol Class 68 made quite a significant first impression on me at Model Rail Scotland. At the time I had no particular need for, nor interest in, a Class 68, although I do very much like the current ScotRail Saltire livery. It was this striking scheme and its superb

application on the Dapol Class 68 which caught my eye. I had seen the real Class 68 only in photographs, and thought its strange indented front end looked like it had been involved in an accident. I really wasn't a fan.

But an eye-catching livery that has been well executed is always a head-turner. After a couple of days at the show and walking past that display, I found myself reaching for my credit card. Examining the model at my leisure has convinced me that my impulse purchase of 68007 *Valiant* was a good one (we subsequently received ScotRail classmate 68006 *Daring* from Dapol).

The second impression is only evident when one handles the locomotive. It is exceptionally heavy. Weighing in at well over one and a half pounds, it must be the heaviest model of its size that I've ever handled - a welcome but bizarre feature for a model of a prototype which includes 'light' in its name.

MODULES AND DETAILS

Modern locomotives tend to consist of various equipment modules installed on a frame. The Class 68 does at least

have a streamlined body, and though the modular concept is still present, it is less obvious. The model does, however, bristle with separately fitted details and many of these are rendered more obvious because they are in contrasting colours.

On the roof, for instance, there are air-conditioning pods on both cab roofs with horns tucked down beside them, and there are etched fan grilles with separate fans below them, and a large exhaust silencer 'box' reminiscent of the Class 59s. There are also a couple of tiny details, picked out in a silver colour, which are quite minute and which are, I guess, sensors or aerials.

Separate side details are limited to the plastic cab door handrails and very fine mesh grilles, behind which some recessed detail is visible. Nameplates are separate etched



Well proportioned model with some very fine detail, heavy, powerful.

No driver, otherwise little of note.



parts. On my sample they were fine, but I have seen some on which the plates are not horizontal, or have glue visible around them. The cab door details and the curiously shaped cabside windows have been well captured.

The ends are festooned with separate details. Dapol has treated this model in the way I like to detail diesels, with a 'front' having all the prototype pipes, cables and coupling, and a 'rear' fitted with the tension lock. In this instance, however, Dapol has managed to include most of the details alongside the tension lock on the inner end, too. All the pipes and cables are pre-fitted, as is the air-dam on the front end. A second air-dam is provided for the inner end and can be fitted if you are not using the tension lock. My sample has nose-end handrails (not fitted to all locomotives) and the long single windscreen wipers are very fine indeed. The lightly sprung plastic buffers are of the distinctive European shape.

Bogie sideframes are well detailed, with separately fitted cab steps and speedometer cables. Apparently the cab interior of the real thing was designed in consultation with the

drivers' trade union, and while the model does have cab interior detail, it is moulded in very dark plastic and quite difficult to see. Once again, we have a locomotive with no driver!

LIGHT AND SOUND

DCC on-board and DCC sound-fitted versions of the Class 68 are being offered, while the basic analogue model has perforations above one bogie to allow for speaker installation. As supplied, the analogue model has front and rear directional lighting. Twin red rear lights are illuminated together with three white front lights and the leading cab. The lights are bright and effective.

There is provision for switching off the rear and cab lights on analogue control. The instruction sheet explains the switching arrangement and the two main switches are accessible by removing the exhaust moulding on the roof. Fitting a six-function decoder allows all the lights to be controlled independently via DCC.

FIT AND FINISH

The nameplates are etched fittings in the correct style and those on my



DAPOL CLASS 68



sample are neatly applied, and while both seem to be just slightly askew, it may just be an optical illusion. Otherwise the fit and finish is excellent throughout.

The livery execution is unusually good, with the blue and white spotted elements of the ScotRail livery applied over a rich, deep blue with a satin finish. The logo, with its spotted cross, looks convincing and the model carries numerous tiny panels with fully legible lettering. The maker's plate carries the Vossloh logo, the number 2685 and the builder's date - 2014. TOPS data panels are carried adjacent to the cab doors, and are also fully legible. Even the overall length and bogie centre dimensions are carried.

The orange cant rail line is neatly applied around the complex cab fronts, and all steps are picked out in yellow. Fuel and battery boxes carry an impressive array of markings and even the electrification warning flashes are legible.

Given the weight, it is no surprise to find that the chassis is a substantial metal casting with a central recess containing the motor and drive shafts. The centrally mounted motor has a brass flywheel at one end and drives both all axles through a cardan shaft and bogie-mounted gearboxes.

Both ends of the chassis are fitted with self-centring NEM pockets, one of which is fitted with a standard tension-lock coupler. As with my



“IT MUST BE THE HEAVIEST MODEL OF ITS SIZE THAT I’VE EVER HANDLED”

The model reviewed was 68007 Valiant.

previous experience with the Hornby Peckett (MR232), the hook part of the tension lock fell off before tests had even begun. These couplings - or at least the cheap and nasty way they are assembled - have become a pet hate of mine. They are the one feature of modern ready-to-run models which needs an urgent redesign.

ON TEST

I was expecting great things, and I was not disappointed. Electrical pick-up is positive, thanks to the weight and the all-wheel current collection. I ran the model in on my home layout with four Mk 3 coaches in tow and was pleasantly surprised to find it virtually silent in operation, and smooth-running straight from the box. It seemed very much at home on my Code 83 and Code 75 track and ran faultlessly, unattended for much of the time.

Equally, there's no shortage of adhesion, and on Model Rail's test track the Class 68 was quite capable of accelerating up the 1-in-60 gradient with 13 mixed Hornby and Bachmann coaches in tow and could well have taken more. Subsequently, I had 16 vehicles behind it on the flat circuit and the only limiting factor is the tendency for very long trains of mismatched coaches to derail.

The Class 68 coped well with Hornby and Peco Setrack and reverse curves and crossovers.

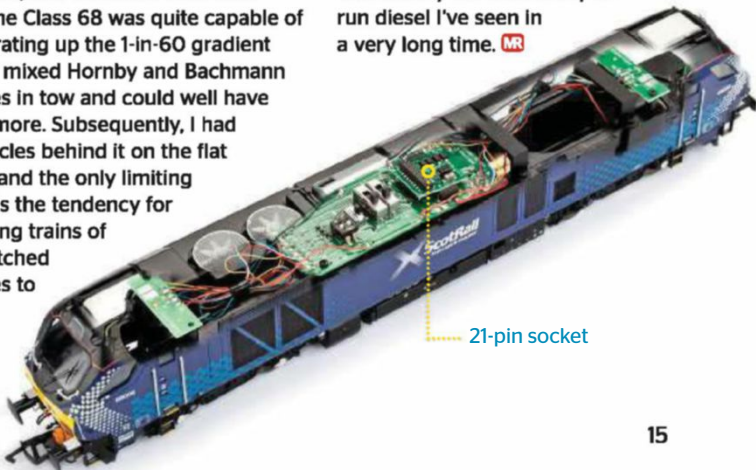
Interestingly, the box label states that the Class 68 is suitable for first radius (371mm) curves, which is unusual for a large, ready-to-run model. It will, indeed, run light engine quite happily round first radius curves, but the end-throw affects the coupler position in relation to adjacent coaches and tends to drag them off the rails. This is in spite of a sprung cam self-centring system.

THE BEST BITS

The bufferbeam detail, the lights, the roof grilles and fans, the cab windshield and roof details, the livery application - there are so many good features to this model that it is impossible to select any one feature as the best. Perhaps the fact that I'm regretting not buying the DCC sound-fitted version speaks for itself. This is truly the best ready-to-run diesel I've seen in a very long time. **MR**

DAPOL CLASS 68

OVERVIEW			
Manufacturer	Dapol		
Ref. No.	4D-022-005/4D-022-006		
Unit No.	68006/68007		
Scale/gauge	4mm:1ft, 'OO'		
Body	Plastic		
Chassis	Metal/plastic		
Weight	744g		
Min. curve radius	R1 (371mm)		
ELECTRICS			
Electrical system	12V DC two-rail		
Motor type	Sealed		
Lights?	Head, tail, cab interior		
DCC ready?	21-pin		
CURRENT CONSUMPTION			
Max. speed	0.4A		
Stalled	0.8A		
MECHANISM			
Drive system	Central motor and cardan shafts to gearboxes on both bogies		
Flywheel(s)	One		
Traction tyres	No		
SERVICING			
How to dismantle	Four clips above bogies		
Where to oil	See instructions		
DIMENSIONS			
	PROTOTYPE	1:76 SCALE	MODEL
Length over buffers	20.5m	270mm	271mm
Height	3.82m	50.2mm	50mm
Width	N/A	N/A	40.5mm
Wheel diameter	1,100mm	14.47mm	14mm
Bogie wheelbase	N/A	N/A	37.5mm
Wheel back-to-back	-	-	14.5mm





FIRST REVIEW

LITTLE LOCO COMPANY CLASS 15



PRODUCT
Little Loco Company BTH Type 1/Class 15 diesel locomotive

PERIOD
1957-1971

REGION
Eastern

AVAILABILITY
Direct, or selected stockists

USE WITH
General goods and passenger stock

PRICE
rrp £375.00

Looks

0 1 2 3 4 5 6 7 8 9 10

Performance

0 1 2 3 4 5 6 7 8 9 10

Features

0 1 2 3 4 5 6 7 8 9 10

Decoration

0 1 2 3 4 5 6 7 8 9 10

Value for money

0 1 2 3 4 5 6 7 8 9 10

RATING **90%**

Looks,
specification,
performance.

Nothing of note.

The 44-strong fleet of British-Thompson-Houston (BTH) Type 1 Bo-Bo diesel electrics (later Class 15) was designed primarily for general freight and empty coaching stock duties. Put to work on Eastern Region lines in the London area, they also stretched their legs into rural East Anglia.

Built between 1957-61, and featuring a punchy 800hp Paxman V16 engine, D8200-8243 enjoyed brief working lives. The decline in freight traffic rendered the locomotives surplus to requirements, with withdrawals beginning in 1969.

Four were retained for use as stationary power plants for carriage heating, employed at various depots

all over the UK, until final withdrawal in the early 1980s. The sole survivor, D8233, was saved from scrap in 1984 and is currently under restoration at the East Lancashire Railway.

Geographically limited and with a short lifespan, the Class 15 may not appear to be an obvious subject for a RTR model but, following Heljan's excellent 'OO' version, we now have an even more impressive offering in 7mm scale, courtesy of Little Loco Company.

SMALL BUT MIGHTY

Constituting Little Loco Company's first foray into RTR models, the Class 15 features a remarkable specification and a very reasonable price. Packed securely in a rugged, foam-lined card box, the model has significant presence. The substantial die-cast chassis provides a serious amount of ballast (nearly 1.5kg), which makes for excellent running and hauling characteristics.

While the model's aesthetics are instantly attractive, so too was the performance, running flawlessly straight from the box. Indeed, the motor and transmission provide a smooth, quiet ride with ample pulling power.

The bogie frames boast an impressive array of moulded relief, with suspension fittings, sanding and brake gear all present and correct. The roller bearing axleboxes even have the SKF markings picked out in red paint. Fuel



filler/drain cocks are installed and the bufferbeams carry the full gamut of brake and control hoses, along with a screw coupling, sprung drawhook and a set of sprung buffers.

The footsteps for the buffer shanks are offered as separate items for the customer to install, and the ends of the bogies are furnished with cross-shafts linking the brake pivots, which is a nice touch.

A sturdy, centrally mounted motor drives all four axles via a pair of cardan shafts and nylon gears. A pair of brass flywheels iron out any fluctuations in the motor's revolutions, and a PluX22 socket allows for new-generation DCC decoders to be installed without fuss. Two 34mm speakers come pre-fitted behind the radiator panels on each side of the bonnet and a DCC-fitted option is available (£475), complete with authentic sound files.

ABOVE THE FOOTPLATE

The plastic bodysell has been moulded to a high standard, free from unsightly seams and boasting crisp detail relief. Embellishments include separate handrails, door handles, lamp





brackets and an exquisitely etched roof grille, with the radiator fan visible beneath. Of special note are the radiator side louvres that feature individual slats, heightening the level of realism significantly.

The characteristic flat section handrails sit along the bonnets and the cab sides and a further highlight is the fully equipped cab interior, with all necessary controls and cabinets included.

Console dials have all been picked out with needles and markings, as have the AWS 'sunflower' displays. Uniquely, the headcode discs can be folded, just like the real thing, to show the desired code and, when a suitable DCC chip is installed, each of the small marker lights can be switched on or off to suit the headcodes displayed.

Supplied in a partly decorated state, a set of waterslide transfers is included with numbers, BR logos and all smaller embellishments provided, along with a set of etched builder's plates. The prototype didn't hang around long enough to receive many liveries, so only three variations of BR green are offered: plain green, or green with either small or full yellow ends.

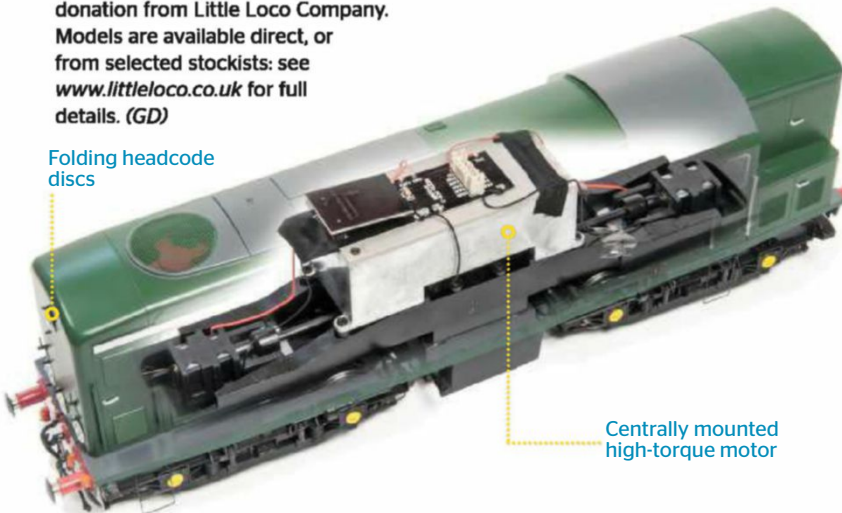
Additionally, a limited batch of fully decorated models is available, portraying D8233 in plain green for an extra £20.

VERDICT

For a first attempt at a RTR 'O' gauge locomotive, Little Loco Company has set the bar high in terms of looks, build quality and performance. Hopefully subsequent releases can live up to the impressive standards that have been set (next up is a Ruston '4wDM' 0-4-0).

Purchasers also have the satisfaction of knowing that this model has gone some way to helping towards the restoration of the surviving BTH Type 1, D8233, thanks to a £10,000 donation from Little Loco Company. Models are available direct, or from selected stockists: see www.littleloco.co.uk for full details. (GD)

Folding headcode discs



Centrally mounted high-torque motor

LITTLE LOCO COMPANY CLASS 15



Detailed cab interior

292mm

Slatted louvres

88mm

63mm

Fine roof grille

Brass flywheels

WANT TO KNOW MORE?

See the Class 15 Preservation Society website for more details of the only surviving BTH Type 1. www.d8233.org.uk

■ Review sample kindly supplied by Trains4U of Peterborough. (Tel: 01733 895989 Web: www.trains4u.com)

LITTLE LOCO COMPANY BTH TYPE 1/CLASS 15

OVERVIEW	
Manufacturer	Little Loco Company
Ref. No.	BTH15/GDB
Unit No.	N/A
Scale/gauge	1:43 scale, 'O' gauge
Body	Plastic
Chassis	Metal with plastic parts
Weight	1.4kg

ELECTRICS	
Electrical system	12V DC two-rail
Motor type	Single high-torque motor
Lights?	Directional head/tail lights, cab interior lights
DCC ready?	PluX22 decoder socket on chassis, speakers pre-wired

MECHANISM	
Drive system	Cardan shafts and plastic gears drive all four axles
Flywheel(s)	Two, brass
Traction tyres	No

SERVICING	
How to dismantle	Body unscrews from chassis
Where to oil	Plastic gears accessed via plate under bogies

DIMENSIONS	PROTOTYPE	1:43 SCALE	MODEL
Length over buffers	42ft 0in	293mm	292mm
Height	12ft 6in	87.5mm	88mm
Width	9ft 2in	63mm	63mm
Wheel diameter (driving)	3ft 9in	26mm	23.5mm
Bogie wheelbase	8ft 6in	59mm	59mm
Wheel back-to-back	-	-	29.1mm

FIRST REVIEW

GRAHAM FARISH HAWK



PRODUCT

Graham Farish
374-610
BR autotrailer
crimson & cream

PERIOD

1951-1965

REGION

Western

AVAILABILITY

Bachmann stockists

PRICE

rrp £34.95

Looks

0 1 2 3 4 5 6 7 8 9 10

Build quality

0 1 2 3 4 5 6 7 8 9 10

Features

0 1 2 3 4 5 6 7 8 9 10

Decoration

0 1 2 3 4 5 6 7 8 9 10

Value for money

0 1 2 3 4 5 6 7 8 9 10

RATING **86%**

Continuing its policy of translating 'OO' models into 'N' gauge, Bachmann has followed the Graham Farish '64XX' O-6-OPT with its natural partner, the Hawksworth autococh. Introduced in 1951, the Hawksworth-designed autocoches were the last new vehicles of their type. Several survive in preservation and one or two have appeared in bogus GWR chocolate and cream, despite the fact that they weren't introduced until after nationalisation.

The first liveries carried by these coaches were either plain crimson or crimson and cream, and our sample carries the latter. The first two coaches released to traffic were almost immediately refitted with bus-style seating and named *Wren* and *Thrush*, but the idea was not perpetuated and subsequent cars appeared with more traditional autococh seating.

Bachmann's 'OO' model is a fine

rendering of this distinctive push-pull coach with its near-flat sides, big windows, and driver's cab at one end. The 'N' gauge version is every bit as good as its bigger brother and features a clear plastic body with detail in relief and printed with full livery and lining detail. The interior has a correct seating layout and the cab features the regulator and handbrake standard. It would benefit from the installation of a driver and a few passengers.

RIB TICKLED

The bodyside panel ribs which showed up so prominently on the unpainted engineering sample do not look nearly as heavy-handed on the finished model, and the character of the doors to cab, guard's van and the main passenger saloon has been well captured. Shell-type roof vents and some extremely fine rivet lines give the roof a convincing appearance, and the

cab front carries a separate bell, correctly finished in the body colour.

Turn the coach over and there's some pleasing underframe detail, including the folding passenger steps (depicted in the open position) truss



FIRST REVIEW

PECO NARROW GAUGE SLATE WAGONS



PRODUCT

Peco GR-320 2t slate wagons triple pack, unbraked, Festiniog railway grey

REGION

Festiniog Railway
(1857-1953),
Festiniog Railway
(1953-present)

AVAILABILITY

Peco stockists

PRICE

rrp £29.50

Looks

0 1 2 3 4 5 6 7 8 9 10

Build quality

0 1 2 3 4 5 6 7 8 9 10

Features

0 1 2 3 4 5 6 7 8 9 10

Decoration

0 1 2 3 4 5 6 7 8 9 10

Value for money

0 1 2 3 4 5 6 7 8 9 10

RATING **81%**

The movement of slate was a prime factor in the development of the narrow gauge railway, so it's fitting that Peco has chosen to add a slate wagon to its rapidly expanding range of '009' rolling stock. The Festiniog was the first railway in the world to employ narrow gauge steam locomotives, so it's also fitting that Peco's new model is of an FR type.

According to author and narrow gauge expert James C. Boyd, the Festiniog Railway (it was only in preservation that the double 'f' spelling was adopted) had 1,095 slate wagons on its books, which were split into three types: wooden (introduced in 1832), small iron (2t capacity, introduced in 1857) and large iron (3t, also introduced in 1857).

The pack received for review is of the unbraked, small iron type (of which the FR has 522). Also available is the braked small iron (117 built) although don't get any ideas about vacuum or air braking - the brakes were all hand-operated!

HOOK AND LOOP

The wagons come in packs of three and they have a simple hook and loop coupling. This is useful as the FR ran lengthy trains of wagons, so the idea of relying on the Bemo-style coupling would be, perhaps, a bit optimistic. Don't despair however, for you can couple your FR slate wagons to other Peco stock, thanks to the two supplied Bemo couplings that replace the hook and loops in their NEM pockets.

Peco's narrow gauge stock is good looking but basic, and the slate wagons are no exception. They look like the prototype, which is enhanced by the numbers and owner colour codes. The FR served many different quarry companies, so each organization was identified by a colour code, introduced in 1911. This pack contains a wagon from Maenofferen (white on black), Oakley (blue) and Greaves (red) quarries. It's a nice touch and beautifully executed.

The slate loads are removable but a bit basic, and the whole fleet would be enhanced by some judicious weathering. That said, they're well produced and, despite their origins, ideally suited to most Welsh narrow gauge layouts. (RF)



SWORTH AUTOCOACH



rods, battery boxes, brake cylinders and rodding. The classic long, oval autococh buffers are fitted and the Hawksworth bogies carry Rapido-style

couplers. Wheelsets are metal, on bushed metal axles.

This little coach is a worthy companion to the '64XX', and at a recommended retail price of £34.95, it represents good value, too. (CJL)

Convincing, accurate, keenly priced.

Nothing of note.

QUICK MASK

PRODUCT
Wilder Quick Mask fluid, 50ml
AVAILABILITY
The Airbrush Company
Tel: 01903 767800
Web: www.airbrushes.com
PRICE
rrp £3.90

ANY GAUGE

New from Wilder is a range of coloured masking fluids, each designed for application, by brush, to any surface. Drying within minutes to a translucent, flexible film, the choice of colours improves visibility when working on coloured surfaces. After painting, the film is simply peeled away, leaving behind no residues.

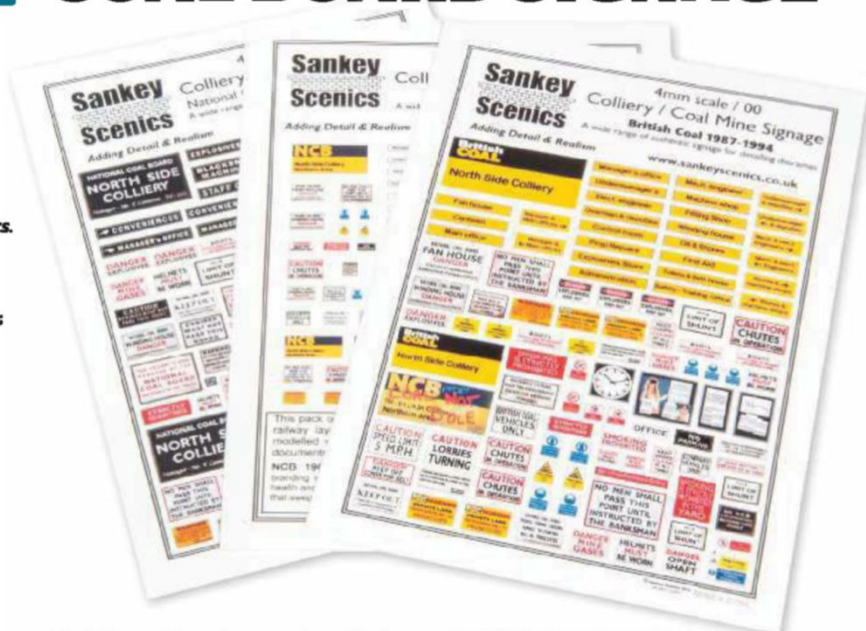
Quick Mask is offered in red, yellow, green, blue and clear formulas, and each is compatible with all types of paint. Recommended. (GD)



N 00 O
GAUGE GAUGE GAUGE

PRODUCT
Sankey Scenics
Colliery Signage packs.
PERIODS
1947-1960s,
1967-1987 and
1987-1994
AVAILABILITY
www.sankeyscenics.co.uk
PRICE
rrp £3.25
per pack ('N', '00');
rrp £4.95
per pack ('O')

COAL BOARD SIGNAGE



Modellers with an interest in collieries will be delighted by these packs from Sankey Scenics, offering a range of essential signage for collieries and coal depots across three key eras of post-war UK coal production.

Available in 2, 4 and 7mm scales, the packs are targeted at the immediate nationalised period, from 1947 to the late 1960s, with traditional National Coal Board branding and Victorian-style lettering. The abbreviated NCB era is also covered, with emotive 'Coal not Dole' graffiti for the tumultuous 1970-80s period. Finally, the British Coal corporate identity of

the 1990s is not overlooked.

Each pack provides a handful of location signs, featuring a generic-sounding 'North Side Colliery', along with all necessary utility signage, for offices, stores, winding house, bath houses and the like. There are also plenty of warning signs, directions, clock faces and instructions for road and rail vehicles, all rendered in era-specific typefaces and styles.

Printed crisply on good quality paper, they simply require cutting out with a sharp scalpel, the white edges touched in with an ink pen and securing to walls or signposts. Great stuff! (GD)

Quality printing and paper, authentic signage.

Nothing.

NEW TOOLS FROM PROSES

00
GAUGE

PRODUCT

Proses VT-001 DC/DCC track voltage tester; BS-HO-02 ballast spreader; FT-HO-01 Flexible track holding clamps

AVAILABILITY

Bachmann stockists

PRICE

VT-001:

rrp £14.95

BS-HO-02:

rrp £30.95

FT-HO-01:

rrp £17.95

Turkish modelling accessory specialist Proses has released a number of new tools that aim to make track laying and wiring easier. One particular innovation is a pair of adjustable clamps for retaining flexible track at a desired radius. Three wing nuts retain the clamp heads that slot perfectly onto 'OO/HO' track, the central clamp then being slid in its slot to form a curve in either direction.

Each 170mm long clamp is rendered in tough, clear acrylic and the rails are securely held while track pins are inserted or, if preferred, while the glue sets. Clamps for other track gauges are also available.

The ballasting stage is also catered for by a push-along ballast spreader, sporting a set of 'HO/OO' wheels. The height of the unit above the rails is

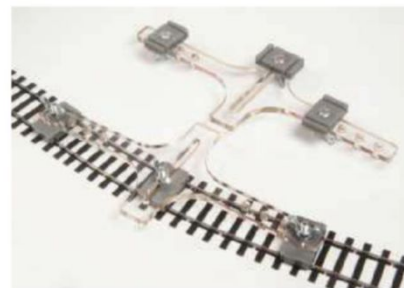
easily adjusted with a locking lever and another lever controls the flow of scatter material.

In use, the tool is simple to operate (a coupling is provided at one end for hauling behind a locomotive!) and the ballast was deposited neatly between the rails and on either side.

By setting the tool just above rail height and with careful control of the flow, there's virtually no excess ballast to brush away before applying adhesive.

Some physical intervention is needed when pointwork is encountered, but otherwise this has proved to be an effective, labour-saving device.

To complete the trio, a handy pocket-sized track voltage tester checks whether the rails are receiving power from the controller. Simply press the two metal prongs against



the rail heads and an array of lights reveal how much electricity is being conducted. The red bulb signifies 5-9V, yellow 9-12V and green 12V+. If no bulbs are lit, the tester is registering less than 5V.

This particular unit is designed for use on 'N', 'TT' and 'HO/OO' track and is compatible with DC and DCC systems. A great help when connecting power feeds and isolation sections or when diagnosing faults. (GD)



WINDOWS OF OPPORTUNITY

N **00** **O**
GAUGE GAUGE GAUGE

PRODUCT

Laser-cut sash and ecclesiastical windows; aperture cutting guides; self-adhesive roof tiles; stained glass window material; Magnetic Mates clamps

PERIOD

Any

AVAILABILITY

York Modelmaking

Tel: 01904 400358.

Web: www.yorkmodelmaking.co.uk

PRICES

See text

York Modelmaking has added a bountiful array of new laser-cut building accessories and tools to its range, including an exquisite choice of windows and roof tiles for 'N', 'OO' and 'O' gauge.

Detailing or scratchbuilding a church is made easier with a selection of window styles and sizes, each being assembled from several layers to create an authentic sense of depth and relief (OO-C6E £7.00 per pair; OO-C3A £8.00 per four-pack).

Domestic and commercial premises can also be enhanced with a new range of sash windows that can be posed in the open position. Again, two or three separate layers are laminated to avoid a 'flat' appearance (OO-205 round-top sash £6.00 per four-pack; O-206 sash £7.50 per four-pack).

All windows are cut from tough plastic and a handy innovation is a selection of MDF cutting templates to ensure that window apertures are formed accurately and neatly (from £2.00 each).

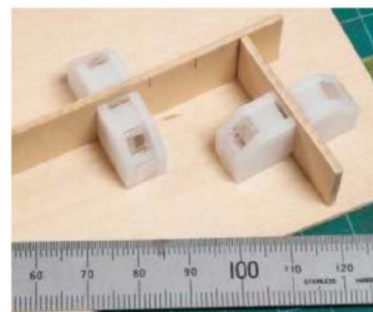
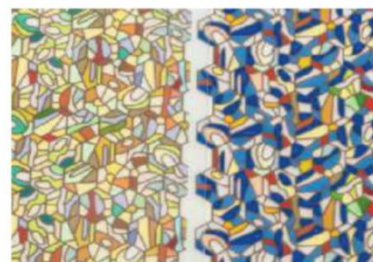
To complement the ecclesiastical windows, printed acetate sheets provide a choice of stained glass patterns to suit 2, 4 and 7mm scales. Each pack offers 200mm by 140mm worth of glazing (£4.00 per pack).

Latest additions to the range of self-adhesive laser-cut roof tiles includes a set of offset grey slates for 7mm scale,

producing a suitably ramshackle appearance, ideal for old stone-built cottages or farm buildings (O-TILE510 £7.00).

Sets of 4mm scale arched tiles, in a choice of colours, will add a decorative touch to Victorian or Edwardian buildings (OO-TILE508 £6.50), while a set of rounded tiles will do likewise for 2mm scale models (N-TILE509 £5.00).

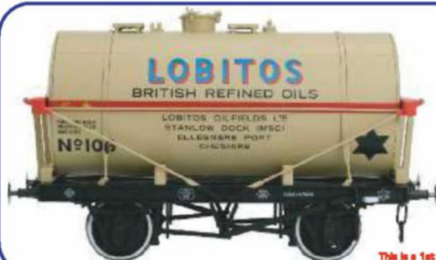
Finally, a new miniature set of Magnetic Mates provides two-pairs of 12mm by 12mm clamps. Aiding the positioning and assembly of wood, card, metal and plastic components, the tools have many uses (MAG-MC2 £12.00). (GD)



April releases

14T Tank

NEW!



This is a 1st Decorated Sample Copyright Dapol Ltd.

7F-058-001 - 14T Tank Wagon - Class A Esso Silver 2985

7F-058-002 - 14T Tank Wagon - Class A Shell BP Silver A7498

7F-058-003 - 14T Tank Wagon - Class A Regent (Red Letters) Silver 101

7F-058-004 - 14T Tank Wagon - Class A Shell Motor Spirit Silver 7522

7F-058-005 - 14T Tank Wagon - Class A Lobitos (Blue/Red Shade) Stone 106

7F-058-001 - 14T Tank Wagon - Class B Shell BP Black 5172

7F-058-002 - 14T Tank Wagon - Class B Esso Black 1869

7F-058-003 - 14T Tank Wagon - Class B Shell BP Black 5133

7F-058-004 - 14T Tank Wagon - Class B Shell Esso Black 1914

7F-058-005 - 14T Tank Wagon - Class B Berry Wiggins Black 101



2F-036-021 - Bulk Grain - GWR 42314



2F-036-022 - Bulk Grain - GWR 42314 Weathered



2F-071-028 - 7 Plank - Blue Circle 175



2F-071-029 - 7 Plank - Blue Circle 175 Weathered



2D-007-006/D - Class 66 Lesia GB Railfreight 66737/DCC

2D-007-008/D - Class 66 DB Schenker Red 66114/DCC

Class 66

These are 1st Decorated Samples Copyright Dapol Ltd.



2D-007-007/D - Class 66 New DRS Livery 66421/DCC



2D-010-004/D - Class 67 A Thomas Telford 67014 Wrexham & Shropshire Silver/DCC

2D-010-005/D - Class 67 Caledonian Sleeper Blue 67010/DCC

Class 67

These are 1st Decorated Samples Copyright Dapol Ltd.



2D-010-006/D - Class 67 DB Schenker Red 67015/DCC

2D-010-007/D - Class 67 Queens Messenger 67005 Royal Claret/DCC

Class 122

These are 1st Decorated Samples Copyright Dapol Ltd.



4D-015-001/D - Class 122 Bubble Car 55002 Blue/Grey Livery/DCC

4D-015-002/D - Class 122 Bubble Car W55000 BR Green with Whiskers/DCC

4D-015-003/D - Class 122 Bubble Car 55012 Regional Railways/DCC

4D-015-004/D - Class 122 Bubble Car SC55013 BR Blue/DCC

4D-015-005/D - Class 122 Bubble Car SC55007 BR Green SYP/DCC



4F-021-009 - Box Van - LMS 611432



4F-021-010 - Box Van - LMS 611432 Weathered



4F-033-108 - 24T Steel Hopper Carnforth 203



4F-033-109 - 24T Steel Hopper Carnforth 203 Weathered



4F-040-023 - 4 Plank - Robert Stark 5



4F-040-024 - 4 Plank - Robert Stark 5 Weathered



4F-051-025 - 5 Plank - Pwllheli Granite 82



4F-051-026 - 5 Plank - Pwllheli Granite 82

Also released this month:

All product release dates correct at time of going to press

4F-054-001 - IDA Super Low 45 (SL 45) 39 70 490 1000 - 2

4F-054-002 - IDA Super Low 45 (SL 45) 39 70 490 1004 - 4

4F-054-003 - IDA Super Low 45 (SL 45) 39 70 490 1005 - 1

4F-054-004 - IDA Super Low 45 (SL 45) 39 70 490 1011 - 9

7F-051-036/W - Brymbo Steel 263/Weathered

7P-004-001 - Autocoach GWR Crest Chocolate & Cream

7P-004-002 - Autocoach GWR Twin Cities Crest Chocolate & Cream

7P-004-003 - Autocoach GWR Shirtbutton Chocolate & Cream

7P-004-004 - Autocoach GWR No Insignia Chocolate & Cream

7P-004-005 - Autocoach BR Crimson

Product Scale Key

O Gauge

OO Gauge

N Gauge

SPECIAL COMMISSION WAGONS

- YOUR CHOICE OF DAPOL BODY
- YOUR CHOICE OF LIVERY
- TURN AROUND IN JUST 3 MONTHS
- FROM JUST 100 IDENTICAL MODELS IN 'OO' OR 'N' 25 IN 'O'
- FOR MORE DETAILS CONTACT CLAIRE ON 01691 774455 OPTION 1 OR EMAIL studio@dapol.co.uk

FERRY WAGON DECALS

00
GAUGE

PRODUCT
LNER/Belgian Coal
Wagon Transfers
AVAILABILITY
MARC Models
Tel: 0208 440 5918
Web: www.marcmodels.co.uk
PRICE
rrp £7.00

Having carved out a niche for itself in the market for Train Ferry-related rolling stock kits and accessories, MARC Models has released a new set of waterslide decals aimed at wagons in the Société Belgo-Anglaise des Ferry-Boats fleet.

Hired by the LNER for use on continental traffic flows of perishable

or fragile goods, where trans-shipment would be undesirable, a small fleet of RCH seven-plank opens was modified for European transit via the Harwich train ferry.

The pack contains all necessary brandings and numbers for one complete open wagon. Performing faultlessly under test, each legend has to be cut carefully from the sheet, and each transfer happily

conformed to the undulations of the surface, with the aid of Micro Sol decal setting solution.

Although I only had a nine-plank wagon to hand on which to test the transfers, they clearly look the part and match prototype images very closely. Incidentally, I employed Tamiya XF19 Sky Grey as the livery shade, which appears to be a close match. (GD)



Rolling stock releases

The next locomotives and rolling stock to arrive in your local model shop

BLUE 'DELTIC'

Bachmann's Class 55 'Deltic' has returned as BR blue-liveried 55004 *Queen's Own Highlander* - with sound. **Product code:** 32-534DS.

Price: £249.95. **Availability:** Bachmann stockists.

00
GAUGE



00
GAUGE

GREY AT 30

The first of Bachmann's collection of models that celebrates 30 years of the sectorised Railfreight livery has arrived in the form of Class 47 47359 in Metals Sector grey.

Product code: 31-662.

Price: £139.95.

Availability:
Bachmann stockists.

KJB MODELS

A family-run business which provides an efficient, friendly and professional service dealing in pre-owned & ex-shop model railway stock.

OUR NEW WEBSITE IS HERE
www.kjbmodels.co.uk

**WANTED N Gauge &
OO Gauge Collections**

**Pre-Owned Model Railway
Collections always Wanted.**

Any Gauge Considered.

Top Prices Paid.

Tel No 07542 710005

Email enq@kjbmodels.co.uk

PayPal™



SPECIAL REVIEW

DAPOL BLACK LABEL 'A4' 4-6-2



Dapol's new brand offers high-end models without sky-high prices. **RICHARD FOSTER** tests the first Black Label model to see if it cuts the mustard.



PRODUCT
Dapol BL-001-003
Gresley 'A4' 4-6-2
No. 4482 *Golden Eagle*, LNER lined apple green

PERIOD
1936-Second World War

REGION
East Coast Main Line
AVAILABILITY
www.dapol.co.uk

USE WITH
Hornby Gresley/Pullman coaches, Golden Age Gresley/Pullman coaches

PRICE
rrp £399.00

Looks
0 1 2 3 4 5 6 7 8 9 10
Performance
0 1 2 3 4 5 6 7 8 9 10
Features
0 1 2 3 4 5 6 7 8 9 10
Decoration
0 1 2 3 4 5 6 7 8 9 10
Value for money
0 1 2 3 4 5 6 7 8 9 10
RATING 91%

The post-David Boyle-era Dapol has always been an innovator. It reinvented itself with its 'N' gauge range early in the new millennium, and has since pushed into the world of inexpensive 'O' gauge, giving us ready-to-run signals, screw-together catenary, magnetic couplers and close-fitting 'N' gauge coach gangways, not to mention some exquisite 'OO' and 'N' gauge diesel and electric models ('Western', Class 22 and, most recently, the Class 68 - see page 14).

Black Label is, therefore, so typically Dapol.

I was as surprised as anyone to see a 'OO' gauge LNER 'A4' on its stand at the 2015 Warley National Model Railway Exhibition. Hornby produces arguably the best mass-produced version of Sir Nigel Gresley's seminal design, as well as a decent-looking budget

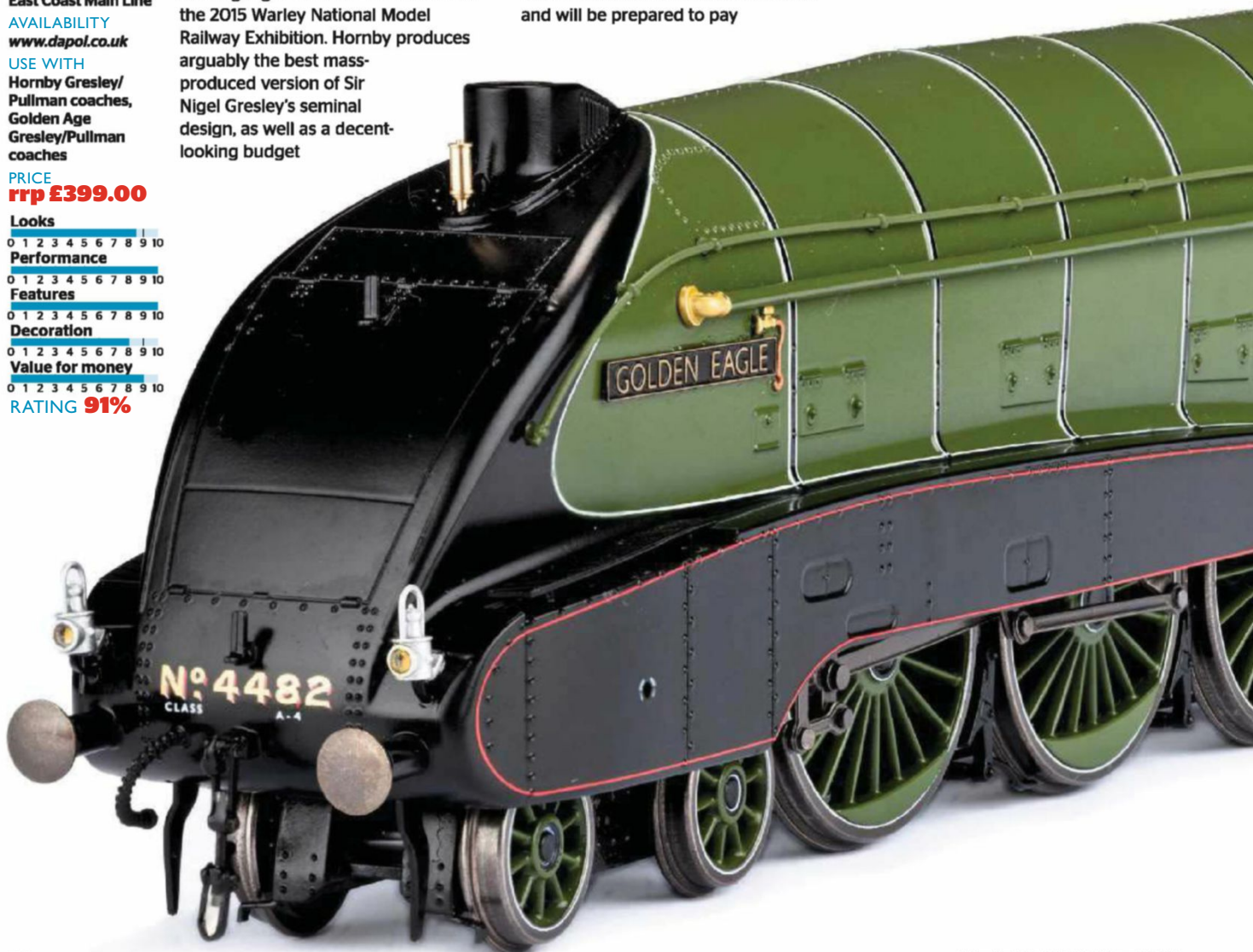
RailRoad version, and while not in its current catalogue, even Bachmann's version can still hold its own today. And that's before we start getting into the high-end, museum-quality metal models from the likes of Golden Age. Could the market really sustain yet another 'A4'?

That was until Dapol's Andy Forty explained what this 'A4' actually was. It's not a direct competitor to the Hornby or Bachmann products - or even those from Golden Age. No, this is Black Label, an entirely new venture that bridges the gap between mass-market plastic and exclusive brass. Black Label is for those who want the refinement of a brass model and will be prepared to pay

a few hundred more than a top-spec sound-fitted Hornby product but who can't afford the four-figure sum for brass. It's a speculative move. Dapol readily admits that it doesn't know if there's a market for Black Label, which is why it's chosen the 'A4', as it's arguably the most popular steam locomotive of all time.

But Black Label isn't just a die-cast metal version of a Hornby model. There's an extensive 'spec' list, including lights, sound and smoke.

That pre-production 'A4' looked pretty complete and so, just over a year later, the 'A4s' are in stock. Black Label has arrived.



BLACK BOX

You can tell Black Label has arrived by the box. It's extremely stylish and a cut above the usual model locomotive packaging. Lifting the lid reveals the usual warranty literature, as well as a handsome owner's manual.

Despite its size, the manual is comprehensive and explains what the accessories are and how to use them. It also goes into great detail about how to configure the DCC functions, so you get the best out of them.

You'll find the accessories under the heavy foam lid. You get two bottles of smoke oil (one specially formulated for Dapol units) and a funnel, a replacement driving wheel with traction tyre, another Cartazzi truck (we'll get into this later) plus a bag that contains the cylinder draincocks and the speedometer.

And, tightly wrapped in plastic and paper, is the 'A4'.

I was pretty impressed with the pre-production 'A4' I saw at Warley. Most importantly, it looked like an 'A4', something aided by its metal construction. There was a lustre and depth to the paint that you can only get with metal, and this complemented

the model's good looks.

I'm pleased to say that this good work carries over to the production model that Dapol kindly loaned us for review. We have No. 4482 *Golden Eagle*, which was the first of the production run of 17 'A4s' introduced in 1936. These machines followed the initial quartet, which were famously painted in the silver/grey livery for the 'Silver Jubilee' train of 1935.

Production 'A4s' were to be painted in the LNER's standard apple green but, in the event, only six received this colour. From No. 4489 onwards, the class was painted blue to suit the new 'Coronation' train the LNER had planned, and blue became the standard livery until black was imposed during the Second World War.

In fact, *Golden Eagle* was the only 'A4' to receive this version of apple green. Classmates Nos. 4483-87 had black smokeboxes, which was at odds with the locomotive's graceful lines.

TRICKY PROTOTYPE

The 'A4s' complex mix of curves and arcs has proven tricky for model manufacturers to get right, and Dapol



has made a decent fist of it. I'm sure that there are experts who would be quick to

pick holes in the shape, and even I feel that there are one or two questionable areas: the humpback perhaps isn't as pronounced enough, the arc over the splashers doesn't swoop enough, and the casing should, arguably, flare out a little where it reaches the splashers.

That said, I still think it captures the air and the character of the real thing, and that's what matters. I particularly like the area where the firebox changes the angle of the sides and you realize that the sides are flat but gradually curve inwards. Full credit to Dapol for attempting to make the rubber sheet that covered the locomotive/tender gap, but the jury's still out on how effective it looks.

Painting and finishing is often Dapol's Achilles heel, but not here. The apple green has real depth to it. You can't tell the join between the die-cast metal boiler and the plastic cab, and the shading on the numbers and letters is really quite exquisite. Running a fingernail along the nameplate reveals the quality of the etching, so it's a surprise that the worksplate is printed and not an etched part.

The finish isn't perfect, however. A comparison with the model and a works portrait of the real *Golden Eagle* showed that the arc of the lining around the nose isn't correct and the green ought to extend onto the running plate a bit more than it does. The prototype photograph also highlights that the curve of the boiler side handrails isn't right and that they should sit closer to the 'edge' of the nose.

MARKET POSITION

You have to approach the Black Label 'A4' like a metal version of Hornby's RailRoad brand. That's not meant to diminish Black Label, but to give you an idea of where it sits in the market.



“THE MODEL MAKES THAT BREATHY NOISE SO TYPICAL OF THE 'A4S', AND THAT CHIME WHISTLE IS REALLY QUITE GLORIOUS”

If you've ever handled an L.H. Loveless or Golden Age 'A4', you'll know that all the doors and hatches open, just like the real thing. You don't get that on Black Label; cab roof ventilators aside, all those types of details are moulded (or cast) as part of the body. It's the difference between a standard Hornby model, with lots of separately fitted detail, compared to a RailRoad model, on which everything's moulded.

If you want an opening cod's mouth door, for example, you have to pay for it, and you'll have to pay much more than the RRP of a Black Label model. With that in mind, you can forgive the rather crude cabside doors, the comparatively basic firebox backhead detail and the little tap on the driver's side, behind the nameplate.

What perhaps isn't forgivable is that, on our sample, the rather flimsy cab fallplate fell off - as I knew it probably would - and the cab glazing came loose. This might be an isolated incident but it would be best to check before you buy.

FEATURE-RICH

What you get, instead of opening doors, are all the bells and whistles and some rather neat innovations. You get sprung buffers front and rear, but only



a tension lock in an NEM pocket on the tender. At the front end, you get a factory-fitted screwlink coupling with no provision for coupling to a train with tension locks from the front. This isn't a problem as it was on very rare occasions - or in the preservation era - that 'A4s' hauled trains tender-first.

The NEM pocket, however, is rather unusual as it pivots, with some spring-loaded wires that press on the tender frames to control the movement.

The locomotive connects to the tender electrically, with a plug and socket connector. At first glance, the physical connection looks like a rather

DAPOL BLACK LABEL 'A4' 4-6-2

OVERVIEW	
Manufacturer	Dapol
Ref. No.	BL-001-003
Unit No.	4482
Scale/gauge	1:76 scale, 16.5mm gauge 'OO'
Body	Metal with plastic parts
Chassis	Metal with plastic parts
Weight	688g
Min. curve radius	R2 (438mm)*
*With pivoting trailing truck. Recommended minimum R3 with fixed truck	

ELECTRICS	
Electrical system	12V DC two-rail
Lights?	Yes
DCC ready?	DCC fitted

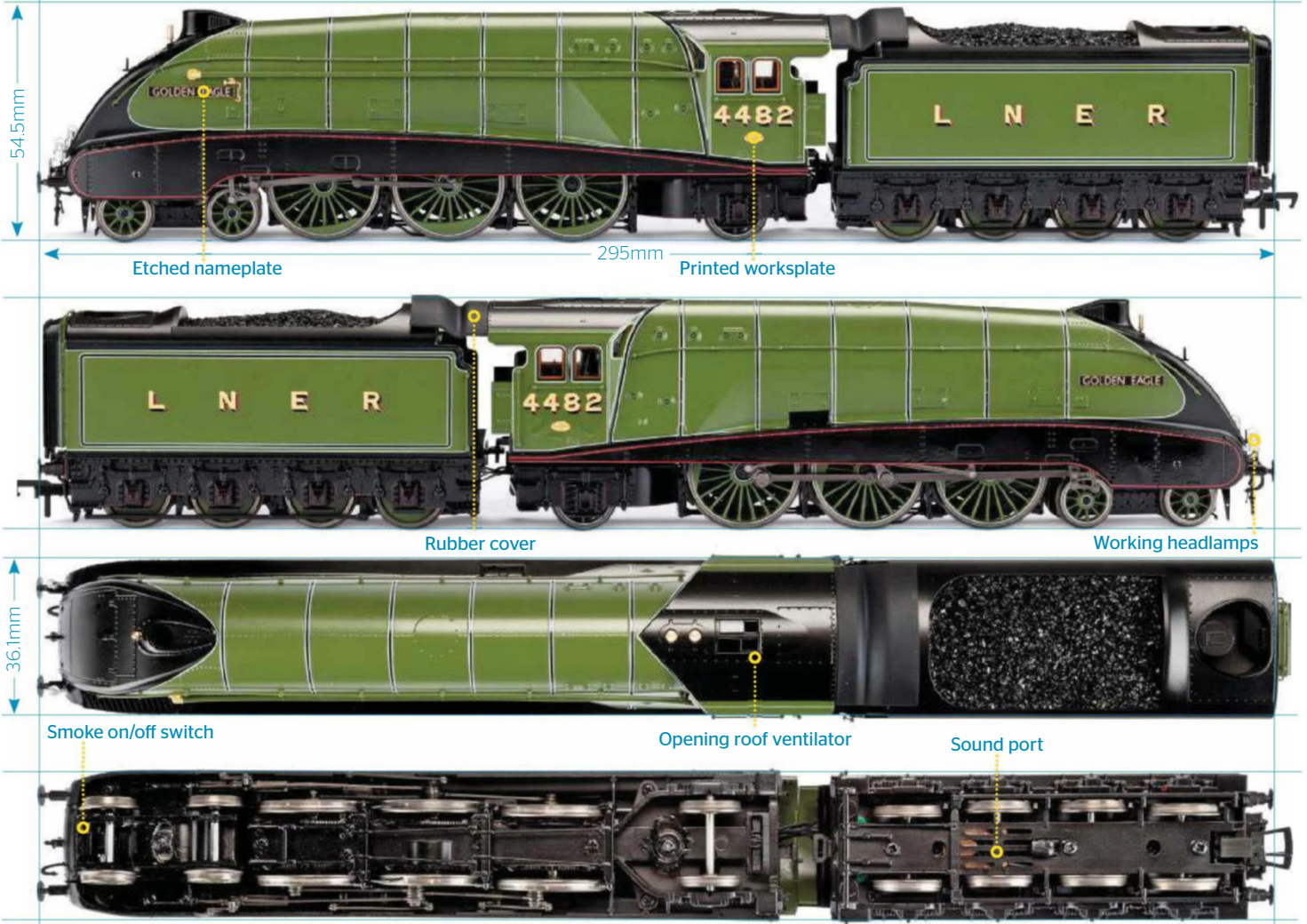
MECHANISM	
Drive system	Worm/gear drive to centre driving axle
Traction tyres	Yes, but supplied on replacement driving axle

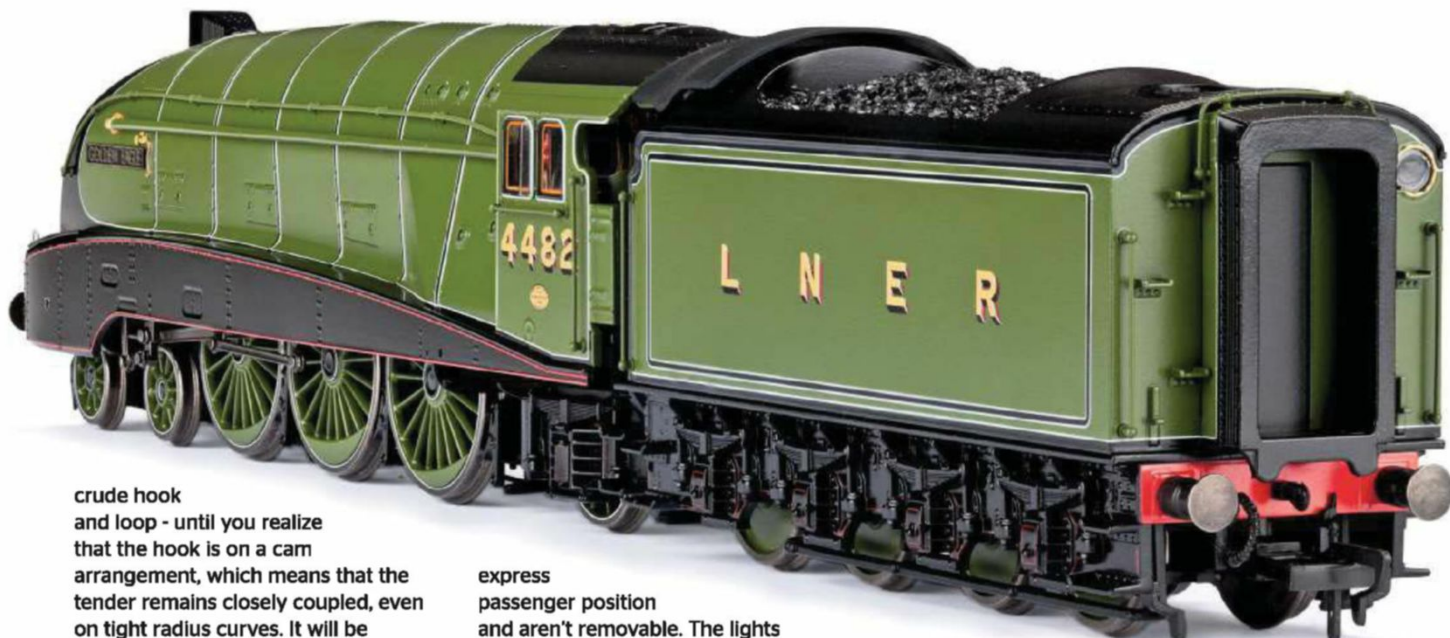
SERVICING	
How to dismantle	See instruction sheet
Where to oil	Factory lubricated; instructions suggest further lubrication after running in.

DIMENSIONS	PROTOTYPE	1:76 SCALE	MODEL
Length (over buffers)	71ft 0 ³ / ₁₆ in	288mm	295mm
Height (over chimney)	13ft 1in	53mm	54.5mm
Width (over cylinders)	9ft 0in	36mm	36.1mm
Wheel diameter (driving)	6ft 8in	27mm	27mm
Wheel diameter (bogie)	3ft 2in	12.8mm	12.5mm
Wheel diameter (tender)	3ft 8in	15.2mm	14.5mm
Wheel back-to-backs	-	-	14.5mm

“ THE SHADING ON THE NUMBERS AND LETTERS IS EXQUISITE ”

DAPOL BLACK LABEL 'A4' 4-6-2





crude hook and loop - until you realize that the hook is on a cam arrangement, which means that the tender remains closely coupled, even on tight radius curves. It will be interesting to see if other manufacturers take note of this.

Talking of curves, the 'A4' is fitted with a pivoting rear truck so that it can negotiate second radius curves. This isn't prototypically correct, so Dapol supplies a replacement truck. This has a bit of movement in the truck but the play comes from the axle. The swap is easy (you just need a screwdriver) and though it's not as aesthetically accurate as, say, Hornby's fixed truck, it does enable the locomotive to traverse large radius curves, although after tests on our track, I'd say that Dapol's recommendation of third radius is perhaps a little optimistic - ours struggled on R3 curves but was much happier on R4s.

ON THE LOOSE

We weren't able to run *Golden Eagle* in as recommended but even so, it was still a good performer. It was a little tight straight from the box but soon loosened up (running in is definitely recommended) and it coped well with our test track. It easily managed 11 Bachmann and Hornby bogie coaches on level track (the traction tyre is only needed if you have heavy, brass coaches). It performed well on the inclines and hauled those same 11 coaches over our 1-in-30 gradient with minimal slipping.

It's the DCC technology that makes the Black Label 'A4' really special. The sounds are really clear and accurate. The model makes that breathy noise so typical of the 'A4s', and that chime whistle is really quite glorious. All the sounds can be fine-tuned and I'd recommend tweaking the rate of 'chuff' to match the speed of the model.

There are two other notable features on the Black Label model: smoke and lights. The factory-fitted lights are quite fine. Yes, the wires are visible under close inspection, but they're not noticeable from normal viewing distances.

The lamps are mounted in the

express passenger position and aren't removable. The lights come on when the locomotive moves forward and are complemented by a flickering firebox glow, activated when the coal shovelling sound is selected. The latter is rather neat as it replicates the glow from the ash pan, as well as from the firehole door. Unfortunately, I feel that the headlamp glow is a bit too bright for an oil lamp and seems more like a modern, high-intensity steam headlamp.

There's a little switch under the nose for the smoke generator. Dapol recommends that you don't run the generator without oil in it, so check before you start to use the model as ours was set in the 'on' position out of the box.

SMOKING AREA

Smoke requires quite a bit of experimentation, and I had mixed results in the limited time I had available. I tried both the ordinary and low-odour smoke oils and had greater success with the former. You need a lot of oil to begin with (as per the

instructions) so perhaps I'd been a bit too sparing.

At first, smoke came out from everywhere except the chimney, although there was a pleasing release when F2 (whistle) was selected. However, I did manage to get a puff of smoke from the chimney to correspond with accelerating away from a dead stop, which was rather pleasing. I dare say that with time and careful programming, you could produce a pretty good effect.

It's very hard to criticize Dapol's Black Label 'A4'. That's partly due to the fact that it's a good model and, personally, I think it holds its own against the well regarded Hornby model. But it's hard to criticize when Dapol should really be applauded for trying something different.

Only time will tell if there's a market for Black Label. Given what we've seen with the 'A4', if the concept doesn't take off, it won't be because of any fault with the model.



A finished signal installation on 'Polwyddelan'.

HOW TO... INSTALL SENSOR SIGNALS



Guiding light **CHRIS LEIGH** has an illuminating experience installing automatic signals on his 'Polwyddelan' layout.

Back in the days when I had my Hornby-Dublo train set, my dad bought me a two-aspect colour-light signal.

I already had a couple of semaphores, one of which was electrically operated, but the colour light was so much more exciting, especially if you turned off the lights and played trains in the dark! When my brother was driving, it was great fun to throw the signal to red at the last second and see how far he would SPAD (signal passed at danger)!

Since then, signals have not figured much on my layouts. 'Black Dog Halt' had the solitary Chippenham home signal, controlled by the fiddleyard operator, and it simply held the train until he had a space for it in the fiddleyard. The train driver had control of a whistle or horn to remind him if he forgot to pull off the signal! On my Canadian layout I have a three-aspect signal in which each of the aspects can show green, amber and red from a single LED, to give the umpteen permutations necessary for the North American system. I had to get my brother-in-law to build the switch unit that operates it. I've never gone beyond a single signal on any of my layouts, largely because electronics and electrical wiring is outside my area of expertise, and I had little prospect of making them work properly.

00
GAUGE

MODEL
Train-Tech SS1 and
SS3 Sensor Signals
• Price: SS1 - £40;
SS3 - £43

AVAILABILITY
Gaugemaster
• Tel: 01903 884488
• Web:
www.gaugemaster.com

DIFFICULTY



ESTIMATED TIME

One hour per two signals

TOOLS NEEDED

- Craft knife
- Tweezers
- Pliers
- Wire cutters
- Liquid poly cement
- Paintbrush
- Soldering iron (optional).

LIGHT FANTASTIC

However, when Train-Tech offered me the chance to try out its new sensor signals, the only suitable test-bed was my 'Polwyddelan' layout. The prospect of having working signals alongside the buffer stop lights and station lamps really appealed although, in reality, it is unlikely that a modern single-track branch would have such signalling. The sensor signal does just as its name implies. Its default position is to display green, but the moment a train passes over the tiny light sensor, the signal turns to red, just as it would on the real railway. It will default back to green after a set time period but, if it's linked to a second signal, it will remain red until the second signal is passed and then, if it is a three-aspect signal, cycle through amber to green after a preset interval.

What really appealed to me is the ease of installation, particularly on a DCC layout, although it is not significantly more difficult on analogue. There is minimal wiring to be done, and you can add such extras as a manual override, mimic displays on your control panel, or add additional signals without disrupting what you've already installed. There are a couple of important considerations to

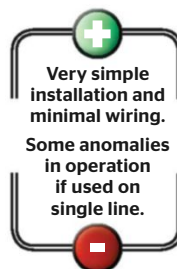
bear in mind, however. The signal needs to be accurately positioned so that the light sensor detects the passing train and is not affected by strong light from elsewhere, and there must be good, reliable power connection. On DCC, the power connection is from the track, while analogue users will solder power connection to the signal.

RETRO-FIT

I did face one small disadvantage. My layout is nearing completion. In order to fit the signals in appropriate locations, I would need to modify small areas of scenery, so the first job was to find locations that would cause minimum disruption to finished work.

The two locations were obvious, one at the platform end and the other close to the fiddleyard entrance. This had the advantage that both signals would be on the same baseboard section, so there would be no need for more inter-baseboard wiring.

The signal at the platform end would be teetering on the edge of an embankment, so it would be necessary to install a small concrete plinth for it to stand on. This could be purely cosmetic, and fitted after the signal was installed, tested and working correctly. 



HOW TO DO IT: INSTALL THE SENSOR SIGNAL



I needed to find a location for the signal. In DCC use, the two long fingers with contact strips fit under the rails and between the sleepers. I selected adjacent sleepers where the gaps would be easy to clear of ballast.



I had ballasted with cork granules and diluted PVA glue, so it was an easy job to clear out two adjacent sleeper gaps. Every scrap of ballast needs to be removed and there must be no lineside obstructions to the contact fingers.



Once I had loosened the ballast I used a portable vacuum cleaner to remove debris. It will be much more straightforward if you plan for the signals from the start! Ensure that the track is switched off before installing the signal.



I needed to remove a small grassy knoll to fit the signal. It will be replaced with a concrete plinth on which the signal will appear to stand. A small block of plaster-coated balsa should do the job.



With most Setrack and flexible track, the two contact fingers can be located under the rails and pushed under the far rail until the sensor is tight up against the sleeper and both strips are under the rails. Don't push on the post or head.



The contact fingers can be a bit of a loose fit under Peco track so they should be packed underneath, if necessary, to ensure good contact. Alternatively, you can do as I did and carefully solder the contacts to the rails.



The signal is supplied with a 1 metre length of wire with which to link two signals together. The wire fits into the output (back) socket of the signal base, linking it to the input (front) socket of the next signal. No soldering necessary!



Time to switch on the power and test. The signal should immediately light up green. The linking wire could be taken under the baseboard, but I chose to conceal it on top.



As soon as a locomotive passes above the sensor, the change in light level switches the signal to red. It is more suited to layouts where trains only pass in one direction, as it will go green again after a short while.



The second signal switches to red as the locomotive passes, allowing the previous signal, which is a three-aspect unit, to switch to amber and then to green. The green would then continue to show until the next train passes which, on a single track, could be in the wrong direction. You can use Train-Tech's mimic switch to override this and switch it to red. On this layout, such a switch could be used to control access to the fiddleyard via this signal.



A four-aspect colour light signal on the Up line at Kings Sutton on the approach to Aynho Junction. CHRIS LEIGH

00
GAUGE

Photography: CHRIS NEVARD
Artwork: ANDREW MACKINTOSH





WINDMILL TERMINAL

PAUL ROLLEY's modern image prototype is a masterclass in using simple techniques to create something that's far more than the sum of its parts.

Words: MIKE HARRIS

Paul Rolley describes 'Windmill Terminal' as a "very simple layout", but I'm not buying it... How can a model railway that's as beautifully realised as this be considered simple? And yet, as Paul reveals his method, I'm forced to backtrack - his modesty is well founded.

The model represents the chemical plant in Barry, South Wales, and is arguably one of the most realistic modern image layouts you're likely to see. It's also proof that realism doesn't have to involve pinpoint accuracy and complicated modelling methods.

COPYCAT MODELLER

Paul is adamant that if you're striving for model making simplicity, the best place to start is by building a prototypical location: "It's easier to model a real place," he says. "You can go out and take hundreds of photographs - you just can't beat first-hand experience and your own photographic reference."

And if you choose to model a building or location that's nearby, you have the opportunity of visiting whenever you need to check something. Luckily for Paul, he passes the chemical plant on his way to work, so sourcing images and maintaining the inspiration was never a problem. Even the panoramic backscene is a photograph of the real backdrop.

"It was taken on a Sunday morning," says Paul. "I took about 20 photographs, each overlapping by about 20% so as not to miss anything out." If you're wondering what vantage point he used to capture such imagery, Paul clambered atop his van. In the interests of safety, *Model Rail* advises you not to do that!

LOW STOCK

The realistic nature of the layout does mean that Paul's choice of stock is limited if he is to run the layout prototypically.

"As per the real location, the whole



IN THE PIPELINE

An elevated discharge pipe runs across the breadth of the layout, and had to be entirely scratchbuilt. Paul used fittings from Knightwing Models and Plastruct, but the piping itself was styrene strip from Evergreen Scale Models.

Paul explains how he sidestepped a problem: "The Evergreen strip that I ordered included tubes of varying diameters. So, starting from the right-hand side, the diameter of the piping slowly increases. Look at the left-hand side and the difference is relatively sizeable. However, the transformation is so gradual and over a long enough length that it isn't noticeable."



Main: One of the trains comes from the Alps and is laden with 20ft containers. Paul has been unable to source these, so representations of 30ft containers have been used instead.

Left: Not only does vegetation obscure the fiddleyard entrance, but it injects a welcome burst of colour, too.



“I MADE NO ATTEMPT WHATSOEVER TO CREATE A REALISTIC CHEMICAL PLANT. THE LAYOUT’S OBJECTIVE IS TO RETAIN A VIEWER’S ATTENTION FOR THREE TO FOUR MINUTES”

 Paul has his backscenes professionally printed. This one consists of three separate sheets, stuck onto an MDF and plywood frame, using adhesive mounting spray.

layout operates on the premise that only one train runs per day, and it's a container train," explains Paul. "Because of this, some people may find it slightly lacking in terms of action."

But thanks to the explosion of micro layouts on the exhibition circuit, layouts which feature only one or two forms of motive power are now commonplace, and besides, 'Windmill Terminal's' charm is in its scenery, which includes that stunning chemical plant centrepiece.

The container train itself is either a Class 66 or Class 60 in EWS livery. As shown in the photographs, the



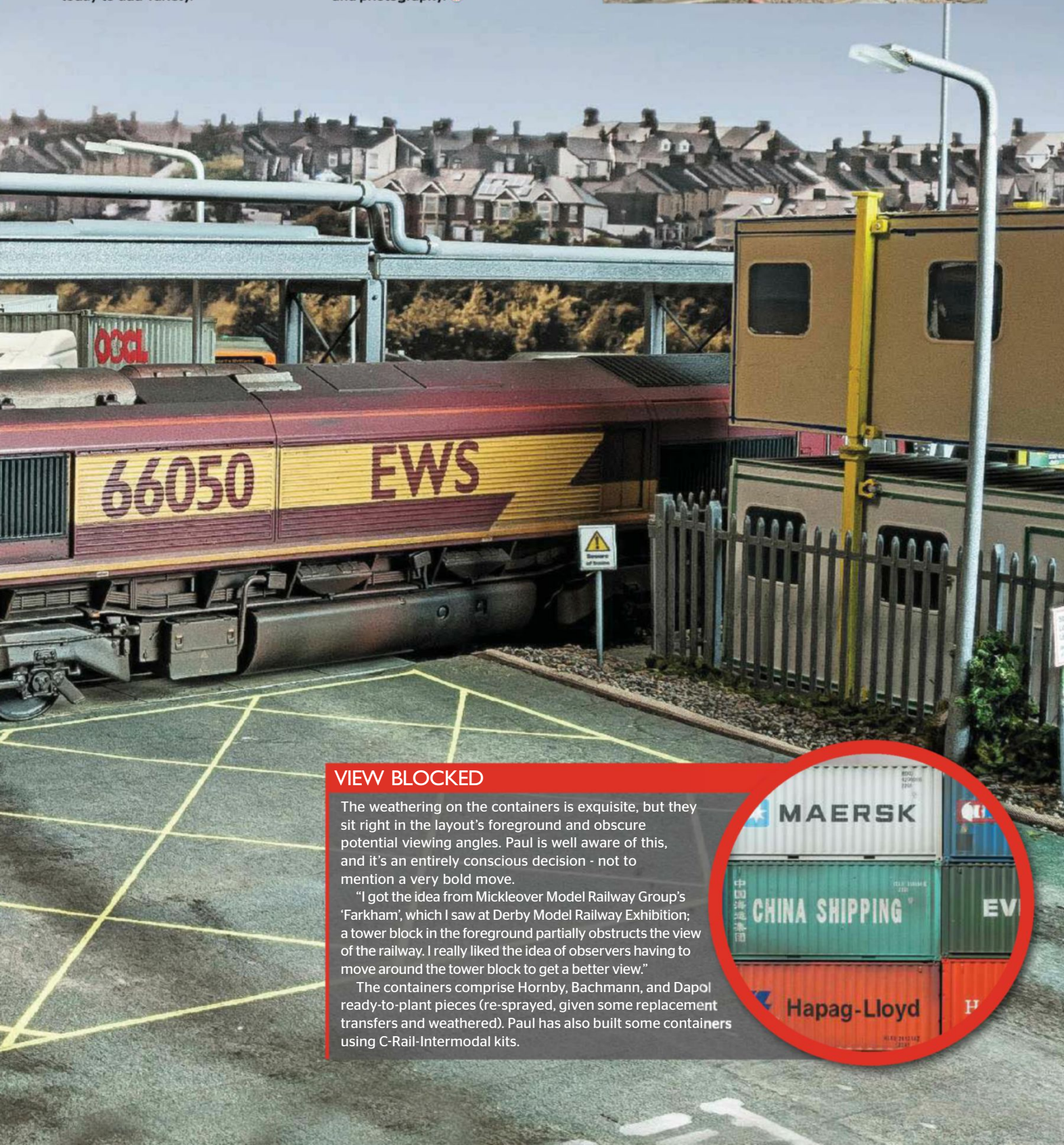
layout used to accommodate a shunting locomotive, either a Sentinel 0-4-ODM, '09' or '08'. However, the real terminal has since tasked the main line locomotive with shunting duties, and Paul has followed suit.

ODDBALL

Eagle-eyed readers may have noticed a small Trackmobile railcar mover. It's an 'HO' Broadway Limited model, with a Burlington Northern Santa Fe Railway emblem. At one time, a Trackmobile unit did operate at the chemical plant, and Paul still uses it today to add variety.

"It's DCC fitted," says Paul. "But it's too small for me to install a 'stay alive' unit inside, so it has to shunt at speed when clearing the crossing."

Paul has faithfully recreated '66' 66050 *EWS Energy*, and was lucky enough to get within feet of the prototype to source imagery. He explains: "For the train to reach the container terminal, it has to cross several public highways, so the locomotive runs right across the streets - something you often see in America. Because of this, I was able to shoot and snap some excellent video and photography." 📸



VIEW BLOCKED

The weathering on the containers is exquisite, but they sit right in the layout's foreground and obscure potential viewing angles. Paul is well aware of this, and it's an entirely conscious decision - not to mention a very bold move.

"I got the idea from Mickleover Model Railway Group's 'Farkham', which I saw at Derby Model Railway Exhibition; a tower block in the foreground partially obstructs the view of the railway. I really liked the idea of observers having to move around the tower block to get a better view."

The containers comprise Hornby, Bachmann, and Dapol ready-to-plant pieces (re-sprayed, given some replacement transfers and weathered). Paul has also built some containers using C-Rail-Intermodal kits.

CHEMISTRY CLASS

The chemical plant itself is the focal point of the entire layout and a hugely impressive feat of modelling in itself. It also happens to be one of the few elements that is not meticulously modelled as per the prototype.

"The phrase I use is 'impressionist modelling'," Paul explains. "I made no attempt whatsoever to create a realistic chemical plant. The layout's objective is to hold a viewer's attention for three to four minutes. As such, implementing details that might take a viewer 20 minutes to spot just wasn't worth my time."

Paul's philosophy is flawed - but in a good way. You can become entirely absorbed studying the intricacies of the chemical plant alone, and for far longer than just four minutes! Paul credits the stunning nature of the model to the baron of scratchbuilding himself, Allan Downes.

"It's very much built as an homage to the model of Scunthorpe Steelworks that Allan built a few years ago," he

says. Paul planned the layout using computer design software, but with the track laid, many of the details acquired, and trains running, the chemical plant was nowhere to be seen. Paul explains: "I had the footprint for the structure ready to go, but I *still* hadn't started the build."

Paul was faced with a slight problem: close-up images of chemical plants aren't easily acquired, but a flick through past Allan Downes articles soon armed him with enough inspiration to remedy the situation.

Allan is famed for his ability to incorporate unaltered household objects into his builds - a method Paul was keen to replicate. Luckily, he was offered a helping hand:

"A friend of mine, Barrie Jones, provided me with a huge bag of useful household objects and components from old kits that he'd acquired at swap meets."



These random components, combined with two Walther's Skyscraper Construction Site kits, provided Paul with enough materials to start building the plant. He says: "With the Walther's kit forming the frame, I simply tried out various household objects, and if they didn't look right I'd rearrange or remove them. The whole process took about three months."





The chemical plant contains a mixture of household objects, including: bottle tops, sports bottle tops, toothpaste tops, pen tops, overflow piping and pipe joints from a toilet, various sized copper pipe fittings, sewing machine bobbins, modified Hornby TEA tanks, and the end off an aerial cable, to name but a few.

GRASS ROOTS

From the intricate chemical plant to the impressively observed road markings, 'Windmill Terminal' is an extremely detailed model. One element that stands out is the amount of vegetation present on the layout. It's something that's not immediately associated with contemporary industrial layouts, but Paul considers it essential.

"It's primarily there to obscure fiddleyard sections hidden behind the chemical plant, but you'll find vegetation - grass, weeds, brambles and shrubs - in and around most industrialised areas."

Cheap £1.50 gel pens have been used to create the road markings, with the road itself purchased and downloaded from Scalescenes and printed onto suitable paper. Paul uses adhesive mounting spray to fix the road surface. Overlapping sections of Tarmac are cleverly hidden with masking tape sprayed with a mix of grey and black acrylic, to replicate fresher patches of road surface.

SIMPLY THE BEST

From shoehorning unaltered household objects into the chemical plant to disguising the flat base with 'view blockers' and infrastructure, Paul has thought carefully about how to execute each and every process in the simplest manner possible.

This can't be categorised as merely a 'simple layout', it's a truly stunning



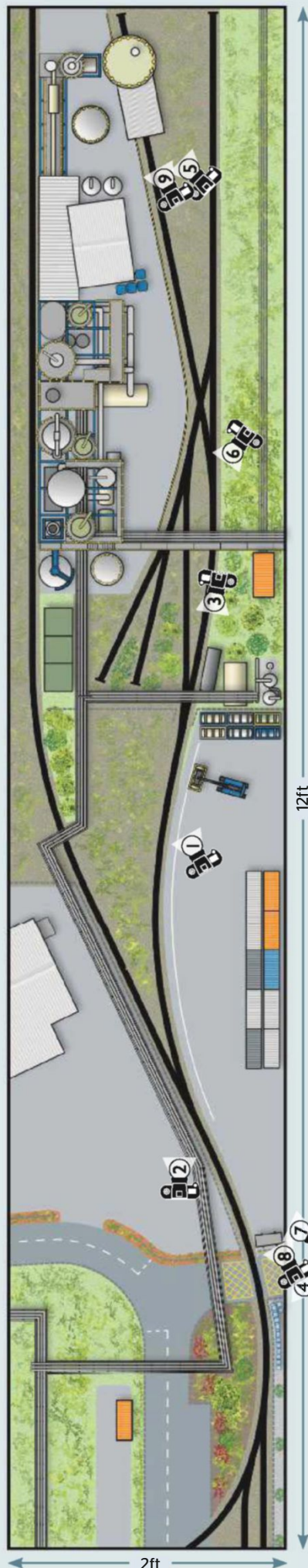
build that's expertly modelled. But what Paul has done is use surprisingly simple techniques to achieve beautiful results.

There's a lot to take from 'Windmill Terminal'. So, the next time you're struggling with a build, stop and ask yourself: 'does it *really* have to be this complicated?' **MR**

Below: According to Paul, removing the containers and chemical plant reveals just how flat 'Windmill Terminal' is - one of the reasons why he believes it to be such a simple layout.



LAYOUT FACTFILE WINDMILL TERMINAL



Gauge & scale: 4mm:1ft scale, 16.5mm gauge, 'OO'
Time to build: 8 to 10 months
Period: Present day
Prototype: Barry chemical plant
Size: 12ft by 2ft

Track: Peco Code 100
Locomotives: Detailed and weathered RTR
Rolling stock: RTR (some modified)
Power & control: DCC
Buildings: Scratchbuilt

Things you might have missed



No longer prototypical, the Sentinel O-4-ODH makes for motive power variety during the photoshoot.



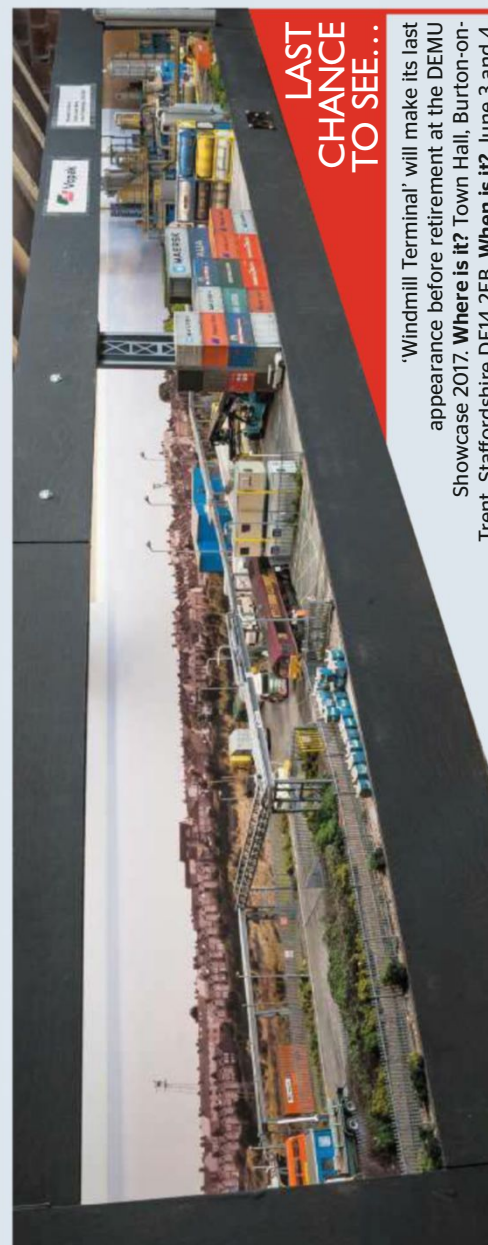
Bachmann Scenecraft Aggregate Bags have been resprayed, handles have been added and aggregates glued on top.



The layout is packed with cameos, simulating the working chemical plant.



Weathered and with custom transfers, the containers really look the part.



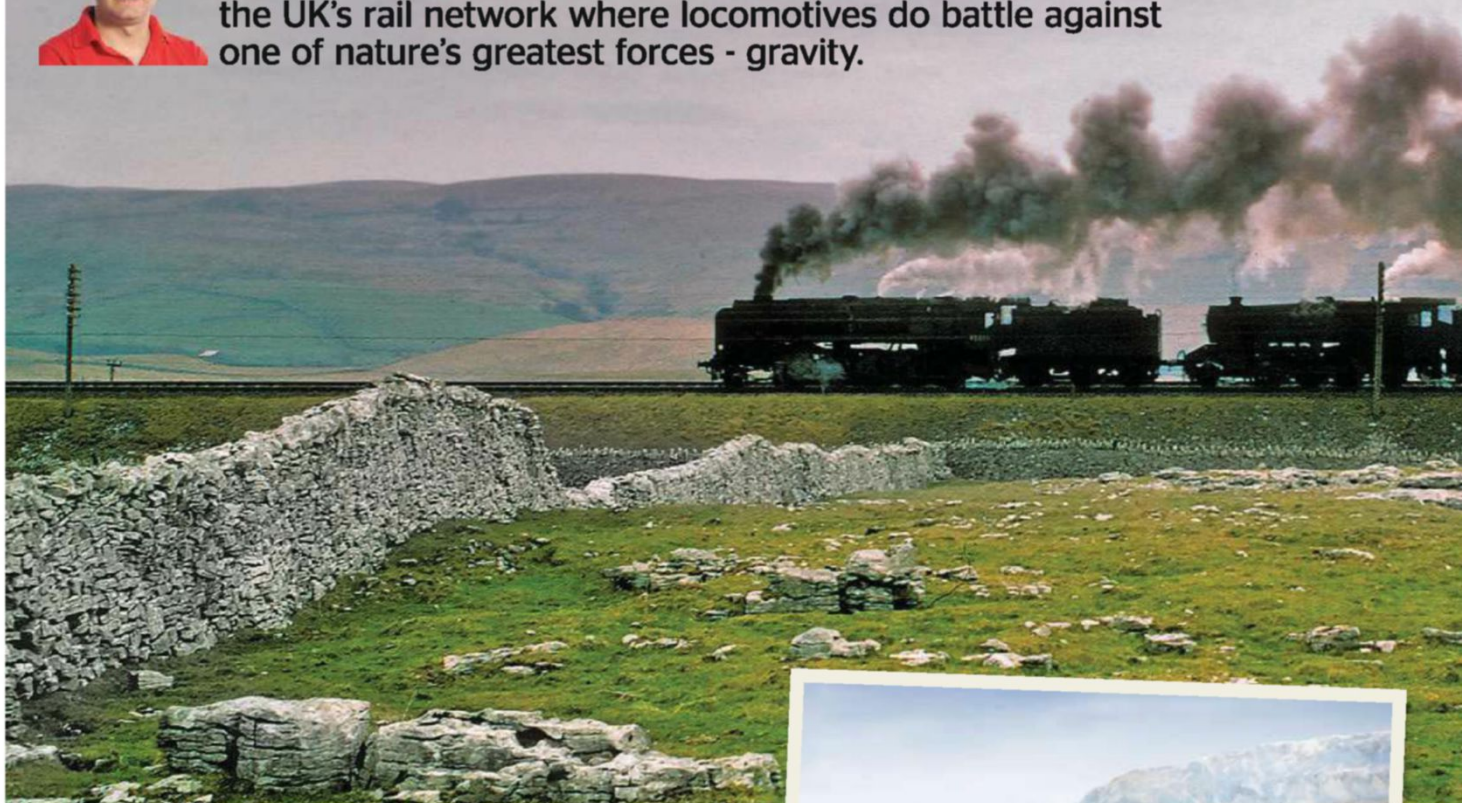
LAST
CHANCE
TO SEE...

'Windmill Terminal' will make its last appearance before retirement at the DEMU Showcase 2017. **Where is it?** Town Hall, Burton-on-Trent, Staffordshire DE14 2EB. **When is it?** June 3 and 4.

BRITAIN'S B



RICHARD FOSTER picks the most spectacular sections of the UK's rail network where locomotives do battle against one of nature's greatest forces - gravity.



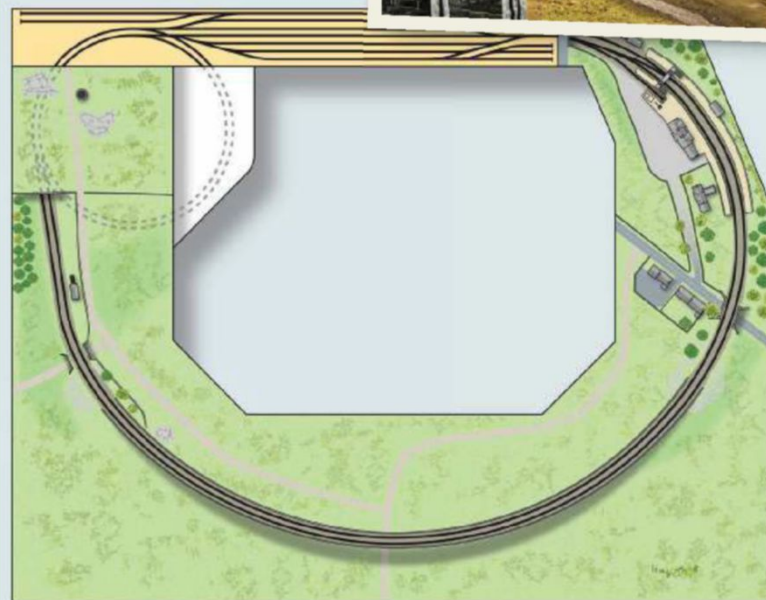
10 THE 'LONG DRAG'

Max. gradient 1-in-100

The Settle & Carlisle's vital statistics are impressive. It has 21 viaducts, 14 tunnels and a ruling grade of 1-in-100 over much of the line. Yet the railway has a darker side: over 200 men were killed during its construction, the 'Long Drag', from Settle to the summit at Ais Gill, took a heavy toll on engines and crew, and the job of signalman at Blea Moor - a mile or so from the nearest road - has to be one of the most unenviable on the railways.

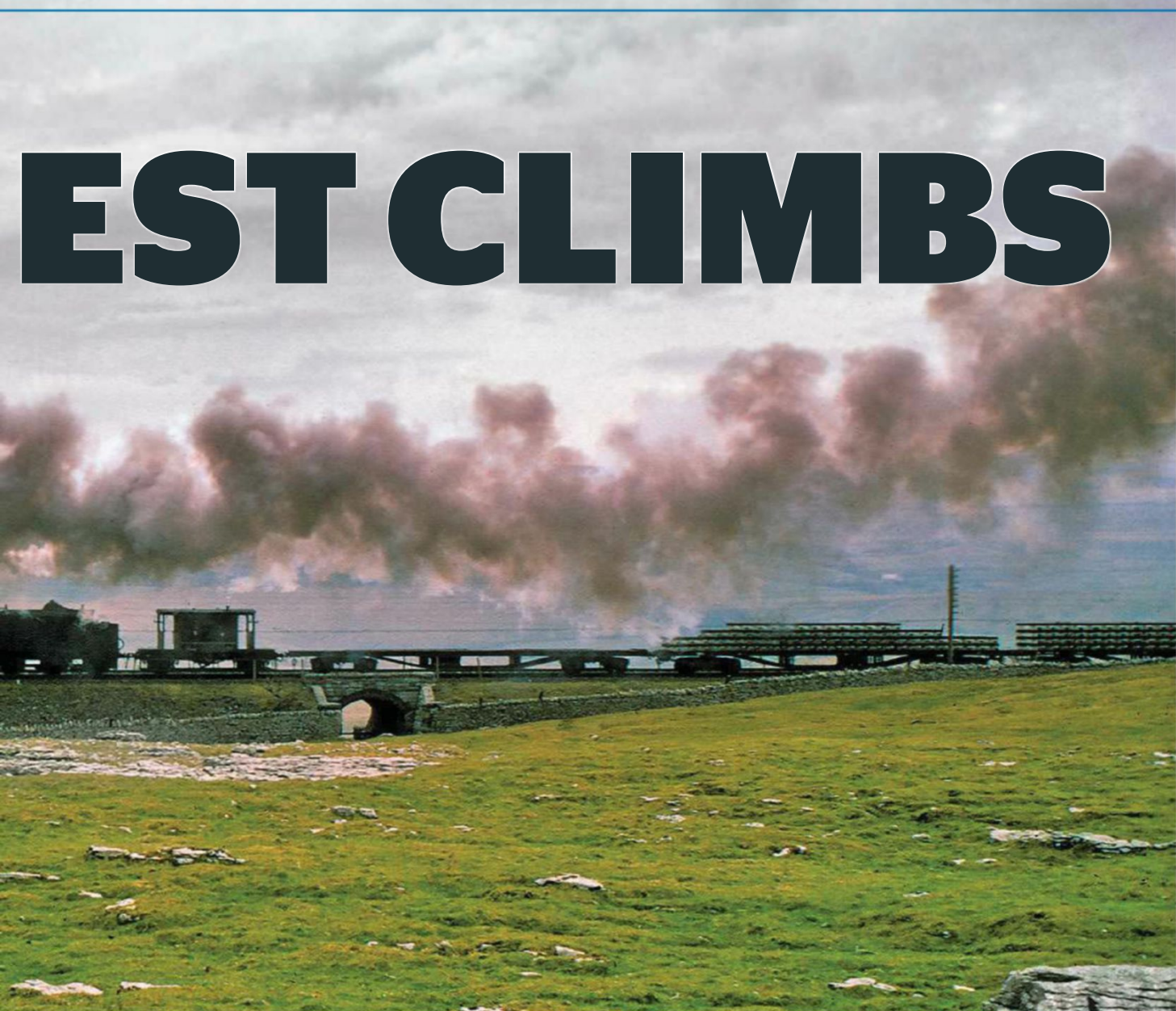
In a sense, this is a line that should never have been built: it was only the Midland Railway's desperation to have its own route from London to Scotland that forced the construction of a railway here. But the S&C forces you to appreciate the physical effort that went into building a Victorian railway. The navvies' pickaxes must have seemed like toothpicks against the vast grandeur of the moors.

Layout idea



Allen Pearson's superb 'N' gauge re-creation of Ribbleshead. Sadly, the only way to enjoy this layout is to track down a copy of the April 2015 issue of *Model Rail* - the layout was damaged beyond repair after a tree fell on Allen's model railway room. CHRIS NEVARD

BEST CLIMBS



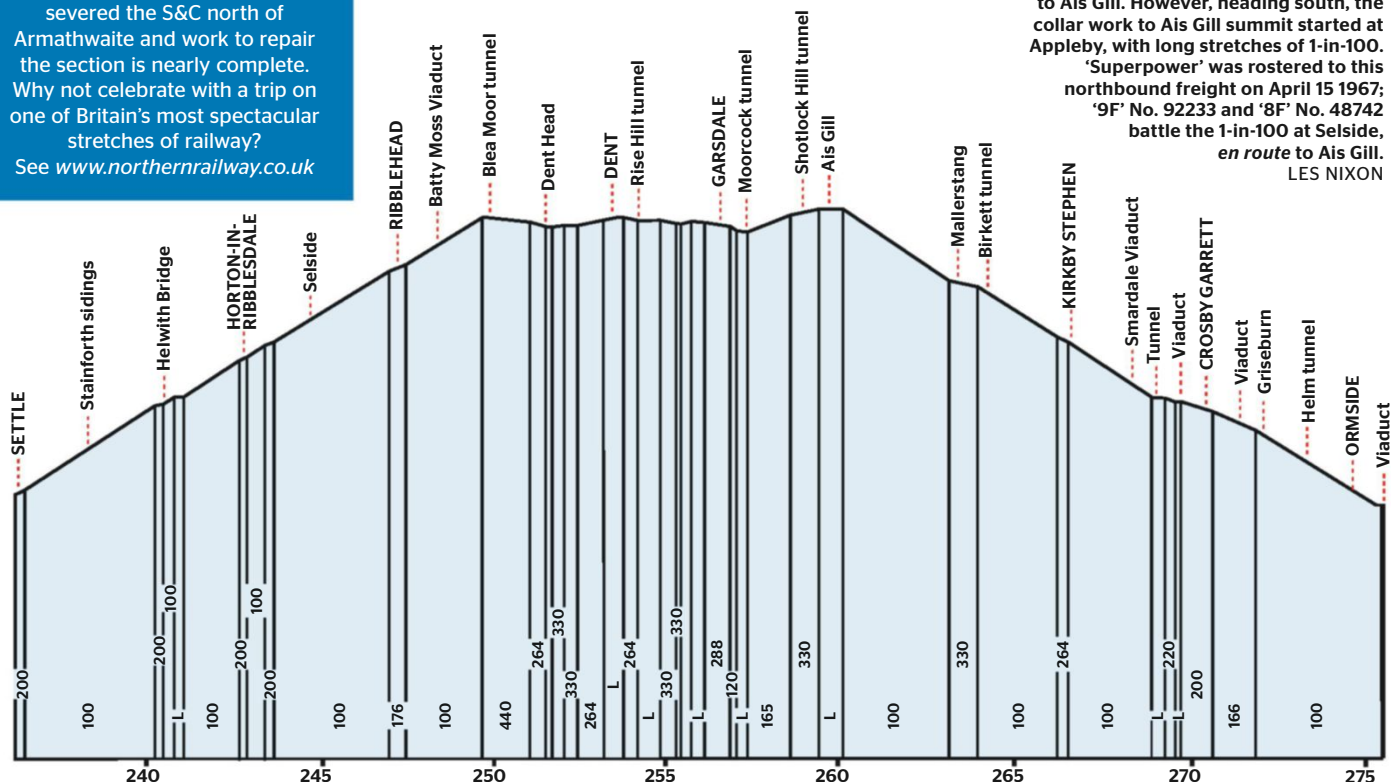
VISIT IT

A landslip in February 2016 severed the S&C north of Armathwaite and work to repair the section is nearly complete. Why not celebrate with a trip on one of Britain's most spectacular stretches of railway? See www.northernrailway.co.uk

The 'Long Drag' sobriquet for the Settle and Carlisle normally applies to the northbound climb from Settle Junction to Ais Gill. However, heading south, the collar work to Ais Gill summit started at Appleby, with long stretches of 1-in-100.

'Superpower' was rostered to this northbound freight on April 15 1967; '9F' No. 92233 and '8F' No. 48742 battle the 1-in-100 at Selside, en route to Ais Gill.

LES NIXON



9 DRUMOCHTER

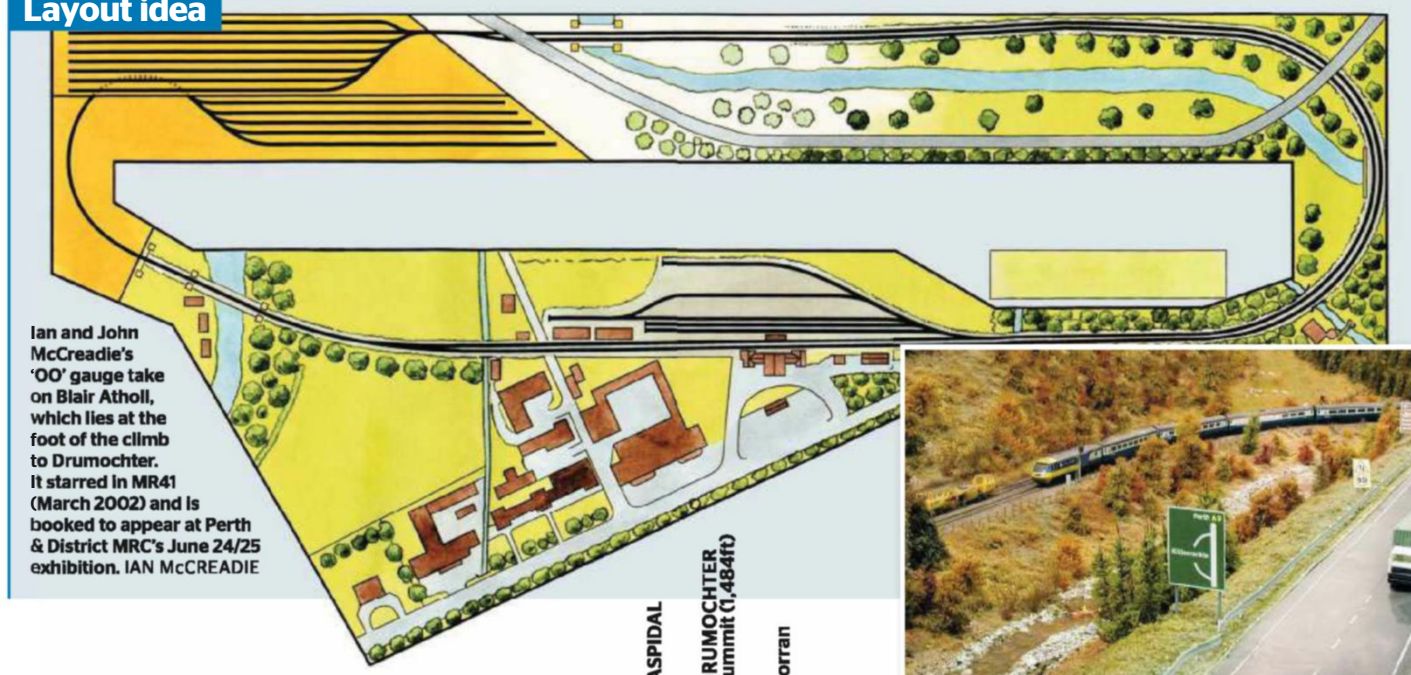
Max. gradient: 1-in-70

Scotland, that land of bare mountains, dramatic passes and breathtaking lochs features some similarly exciting stretches of railway. The Highland Railway featured quite a few, as it pushed towards the very tip of the mainland. Dava and Slochd are impressive, but none more so than Drumochter. It's a bleak place and even in a car, on the A9 dual carriageway, it feels remote. But it's a beautiful remoteness, as befits the highest point on Britain's railway network, at 1,484ft. Nowhere else symbolises the epic showdown of man and machine battling against the forces of nature.

An unidentified 'Black Five' powers north near Dalnacardoch on May 30 1950. An ex-Caledonian Railway Pickersgill 4-4-0 gives the lengthy goods train a hand as it makes its way to the highest point on Britain's rail network at Drumochter. RAIL PHOTOPRINTS



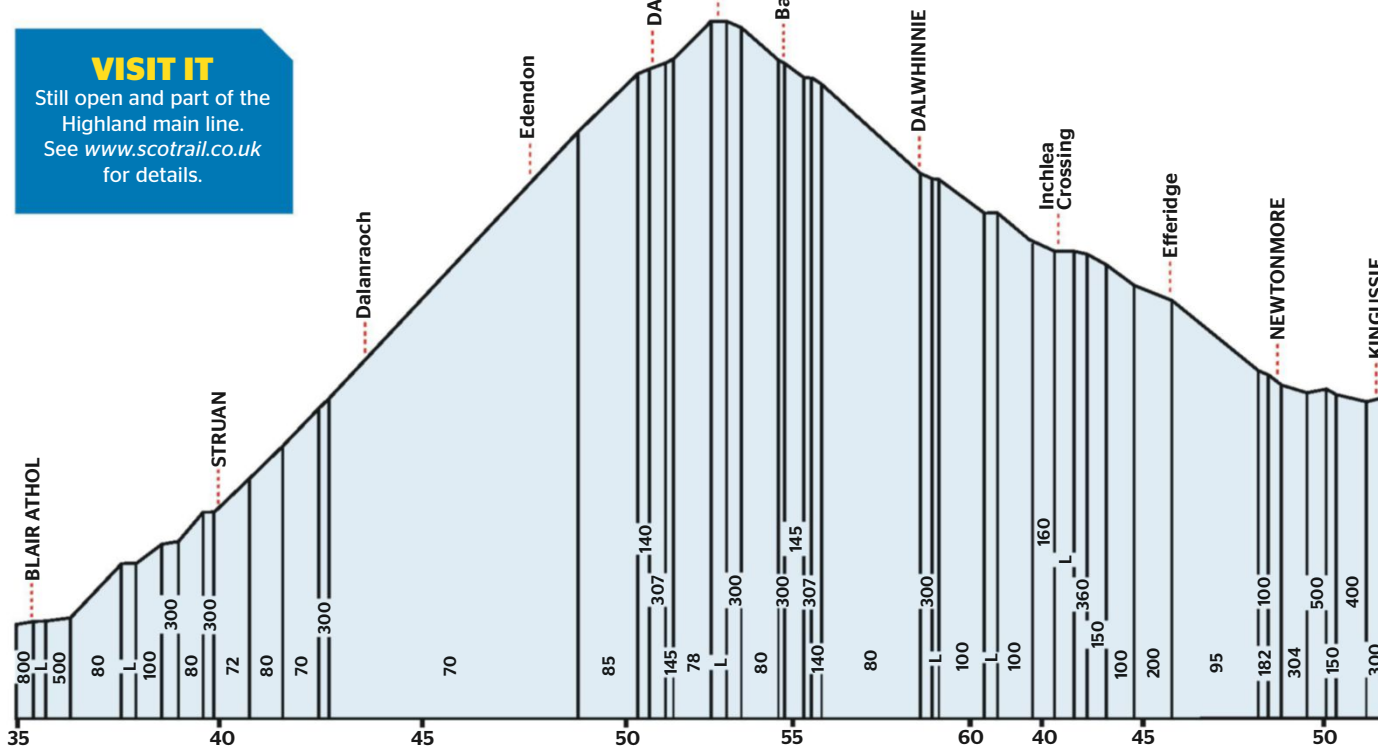
Layout idea



Ian and John McCreddie's 'OO' gauge take on Blair Atholl, which lies at the foot of the climb to Drumochter. It starred in MR41 (March 2002) and is booked to appear at Perth & District MRC's June 24/25 exhibition. IAN MCCREADIE

VISIT IT

Still open and part of the Highland main line. See www.scotrail.co.uk for details.



8 COPY PIT

Max. gradient: 1-in-65

An old railway map of the Lancashire & Yorkshire

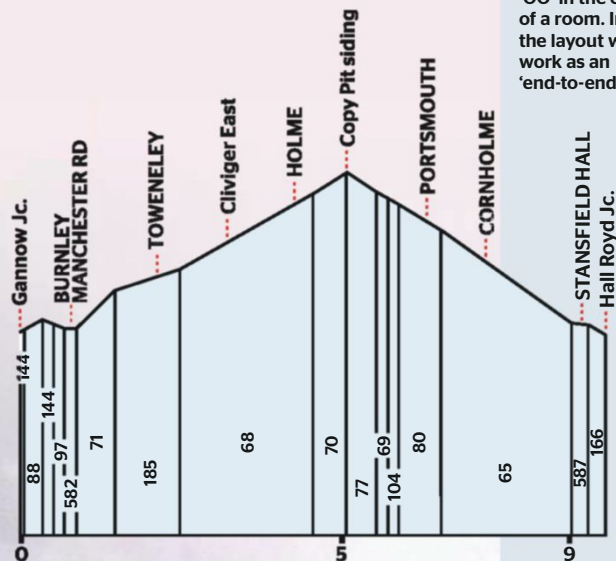
Railway's lines north of Manchester reveals a mass of lines radiating north via Bolton and Bury to the Lancashire towns of Bolton and Burnley that then thread eastwards over the Pennines, towards Halifax and Skipton. The nine-mile stretch from Stansfield Hall, near Todmorden, to Rose Grove might look like a tiny part of that network, but it features the not insignificant climb to Copy Pit summit. There was no station at Copy Pit, and the name comes from a nearby coal mine, but it was a Mecca for enthusiasts in the late 1960s as the last weary and worn 'Black Fives' and '8Fs' slogged their way up the grade.

'Black Fives' Nos. 44874 and 45017 power over Copy Pit summit with the Stephenson Locomotive Society's 'Farewell to Steam No. 2' railtour on August 4 1968.

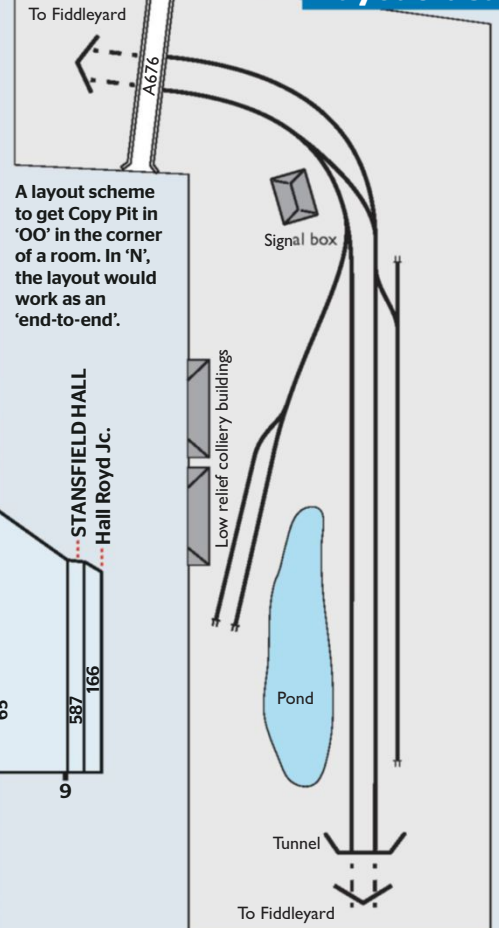
COLOUR-RAIL

VISIT IT

Still open and regularly used by Northern services. Steam occasionally goes over Copy Pit, so check out www.uksteam.info for the ultimate Copy Pit experience.



Layout idea



7 WOODY BAY

Max. gradient: 1-in-50

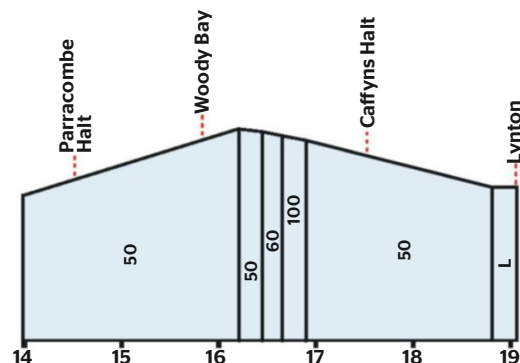
Compared to the ruggedness of North Wales, the Lynton & Barnstaple Railway is a fluffy teddy bear of a narrow gauge railway. Rolling hills, chocolate box stations, flowers, sheep and a seaside terminus... sounds idyllic doesn't it? But the L&B was a hard railway to work.

It was uphill all the way from Barnstaple, with a ruling grade of 1-in-50. A small chunk of this lovely little railway has been preserved - the highest part of the line, near Woody Bay which, at 980ft above sea level, is the highest station in southern England.



Above: Bagnall 4-4-0T *Charles Wytock* climbs the 1-in-50 to Woody Bay with the Lynton & Barnstaple Railway's rake of four restored coaches in 2015. NDPHOTOS/ALAMY

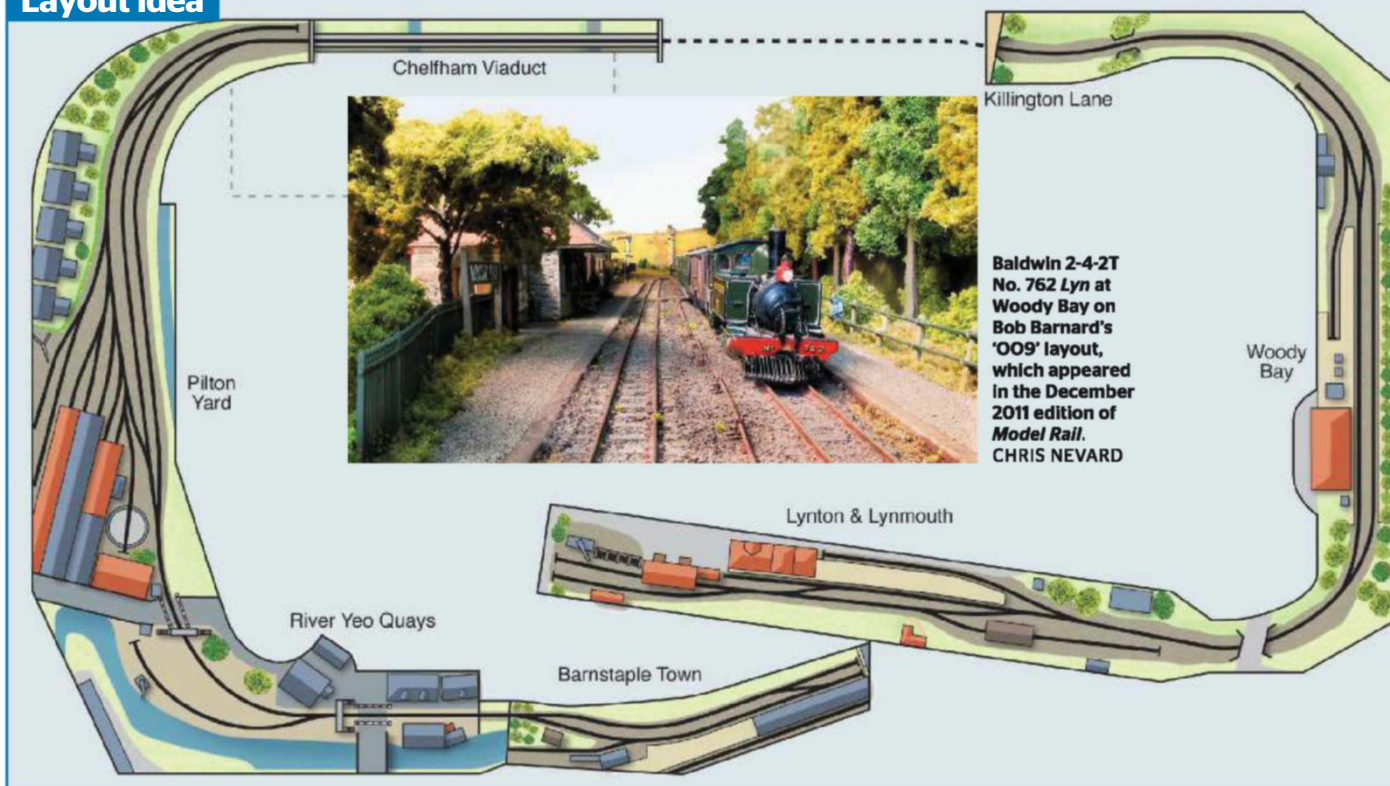
Left: A Lynton & Barnstaple Railway train departs Woody Bay station, in a picture that clearly shows the steepness of the gradient; the headshunt on the left is on the level. NDPHOTOS/ALAMY



VISIT IT

The only part of the L&B to be re-opened is the highest section. See www.lyntonrail.co.uk to organise your visit.

Layout idea

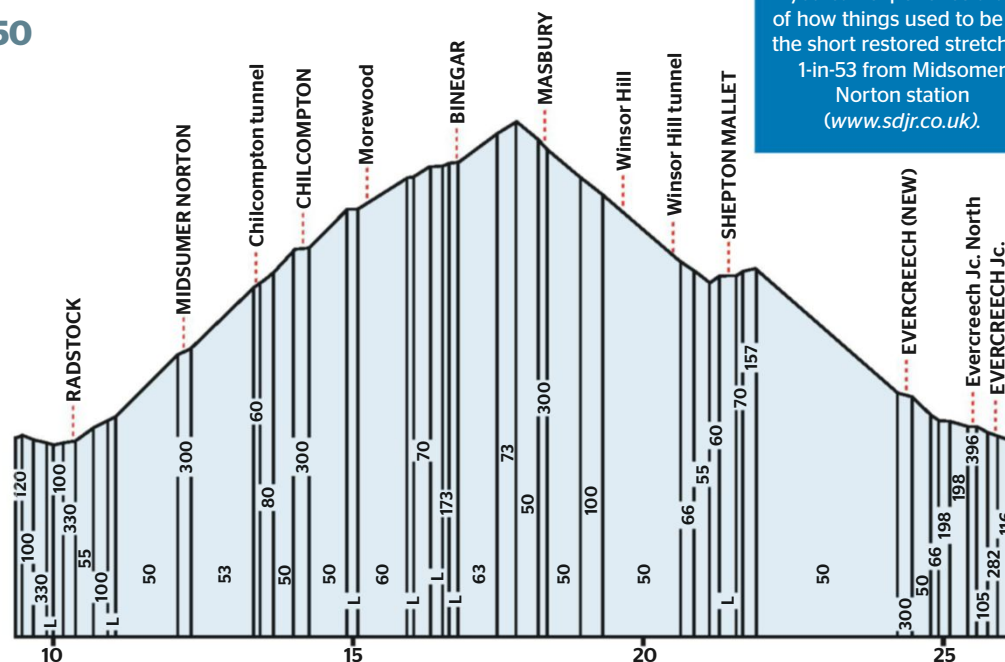




Midland '2P' 4-4-0 No. 40563 and rebuilt 'West Country' No. 34045 Ottery St Mary are working hard as they pass through Masbury station with a northbound Summer Saturday service over the S&D on August 26 1961. DAVE COBBE/RAIL PHOTOPRINTS

6 MASBURY Max. gradient: 1-in-50

How far would you go to ensure the survival of your railway? The Somerset & Dorset Railway's main line from Burnham-on-Sea to Wimborne in Dorset was not making enough money, so the company made one last-ditch effort: pushing a line north from Evercreech, over the Mendips, to Bath. The gamble didn't pay off, and the company was taken over by the LSWR and the Midland. Crossing the Mendips was akin to crossing the Pennines in many ways, and the S&D's engineering was strikingly similar to that of the Settle & Carlisle. There were viaducts, tunnels and, of course, a stiff climb; the S&D's 'Long Drag', north from Radstock and south from Evercreech, culminated at Masbury - 811ft above sea level.

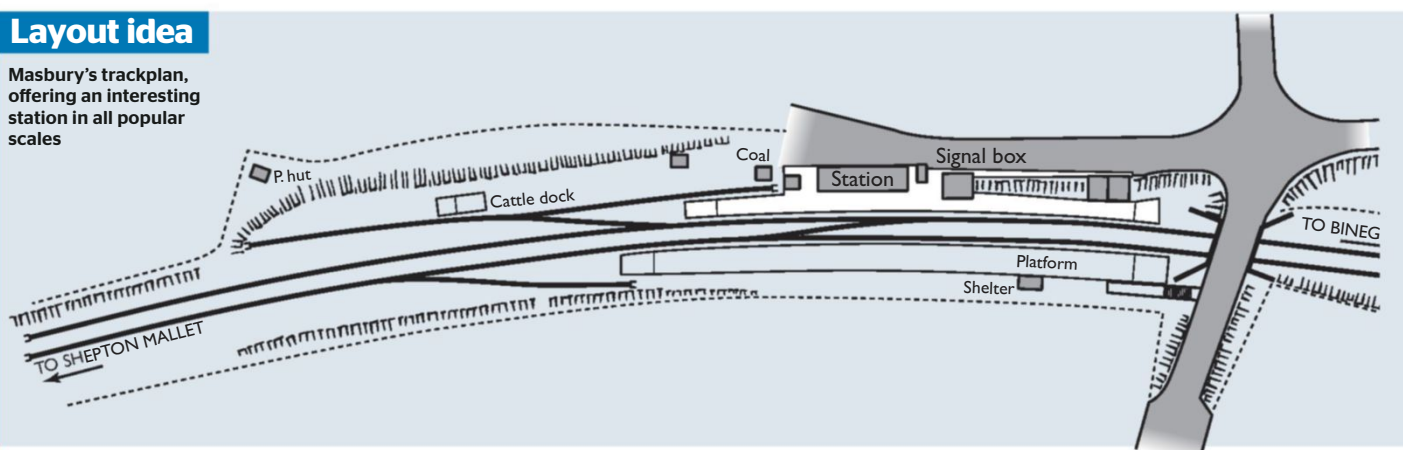


VISIT IT

The S&D closed in March 1966 and was swiftly dismantled. Masbury station building still survives, but you can experience a bit of how things used to be on the short restored stretch of 1-in-53 from Midsomer Norton station (www.sdjr.co.uk).

Layout idea

Masbury's trackplan, offering an interesting station in all popular scales



5 HEMERDON

Max. gradient: 1-in-41

The Great Western Railway's South Devon main line is at complete odds with the London-Bristol route. Brunel engineered the latter to be as level as possible, to ensure high speeds. In Devon, he had some very hilly terrain to conquer, so he turned to an experimental system which literally sucked the train over the hills; unfortunately, the atmospheric railway system wasn't a success. The GWR had inherited the South Devon Banks - Dainton, Rattery and Hemerdon, of which the latter is the toughest: eastbound trains start cold from Plymouth and then face a gruelling climb at 1-in-42. It's a particularly difficult section for steam, as former WCRC Traction Inspector Ray Churchill explained to *Steam Railway* magazine:

"Hemerdon is the real challenge as you're hitting the bottom with a cold engine."

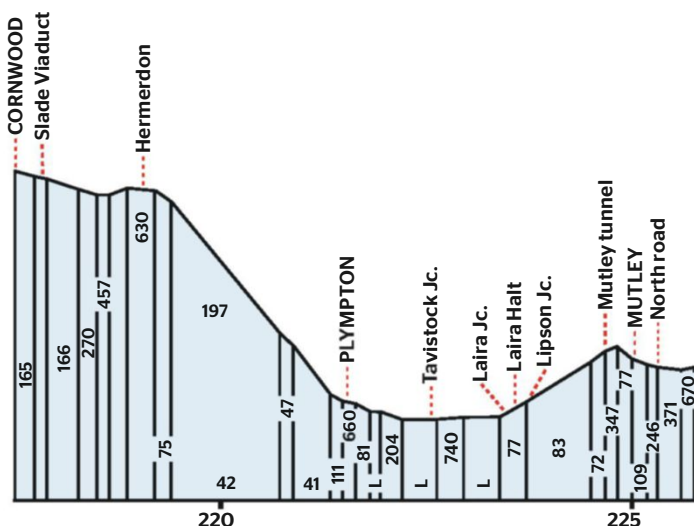
VISIT IT

There's one vantage point for Hemerdon - a small overbridge not far from Dartmoor Zoo (www.dartmoorzoo.org.uk). Alternatively, book a seat on the Great Western service and enjoy the South Devon banks from inside the train.

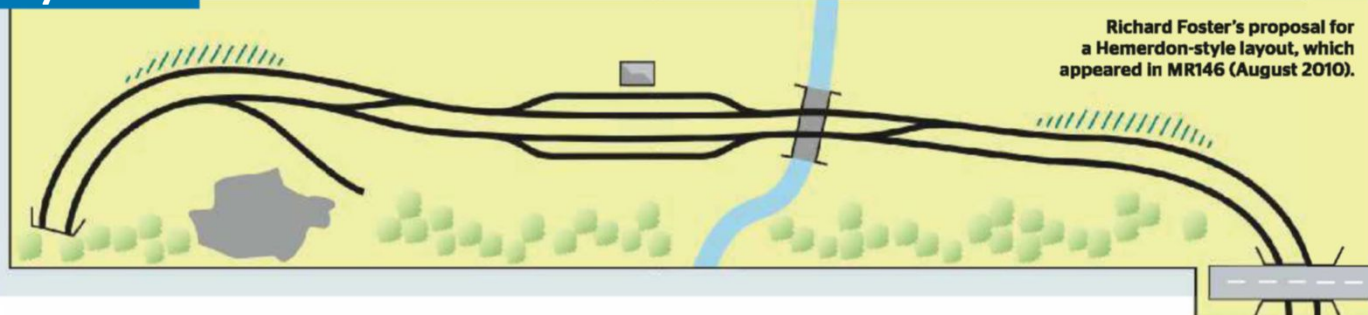


The GWR's 4-6-0s were designed to provide maximum adhesion over the South Devon banks. 'Castle' No. 4098 *Kidwelly Castle* pilots 'King' No. 6016 *King Edward V* on Hemerdon with the Up 'Cornish Riviera' on June 20 1958. TREVOR OWEN/COLOUR-RAIL

Right: This 1973 photograph shows Hemerdon Loop sidings looking towards Exeter. There's plenty of detail, including signals, catchpoints and - due to the introduction of continuously welded rail - breather switches. CLASSIC TRACTION



Layout idea





Class U1 Garratt No. 69999 banks freight up Worsborough Bank on the approach to the first of the two Silkstone tunnels, circa March 1953. LES NIXON

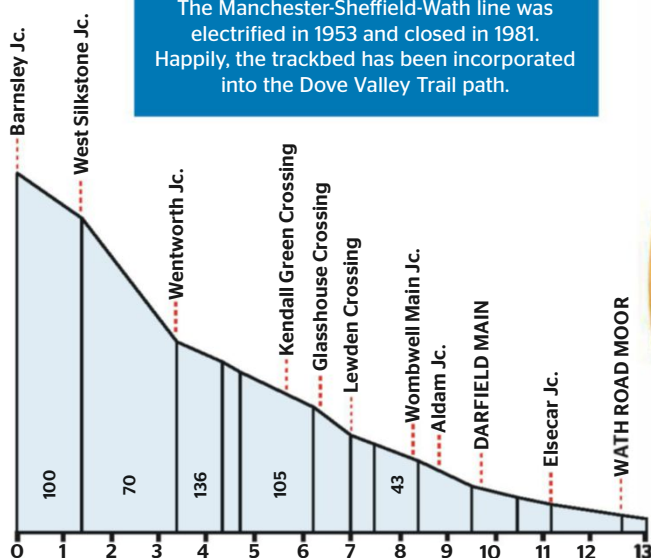
4 WORSBOROUGH Max. gradient: 1-in-40

You'd think that crossing the Pennines would make the Manchester-Sheffield 'Woodhead Route' a challenging one but, surprisingly, only some very short sections of the climb to and from the summit are steeper than 1-in-100. However, the branch to Wath is definitely worthy of inclusion. This joined the Great Central Railway's Woodhead Route via junctions at Silkstone and Penistone, and it not only provided rail access to a few collieries but also a useful bypass around Barnsley for the seemingly endless procession of coal trains from Wath yard.

It was always freight-only and extremely challenging to work. And it's why Nigel Gresley built the LNER's sole Garratt, No. 2395, to provide power for the seven-mile Worsborough bank, with its three miles of 1-in-40.

VISIT IT

The Manchester-Sheffield-Wath line was electrified in 1953 and closed in 1981. Happily, the trackbed has been incorporated into the Dove Valley Trail path.



Layout idea



Alan Whitehouse was compelled to model the Manchester-Sheffield-Wath electric railway that he remembered from his youth. He realised his dream in 2mm finescale (MR171, July 2012). MARTYN BARNWELL



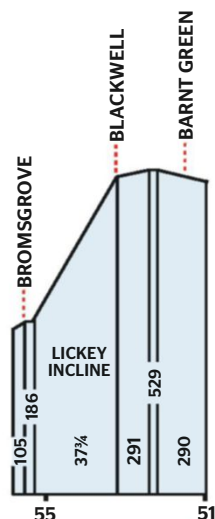
CHRIS LEIGH

3 LICKEY INCLINE

Max. gradient: 1-in-37¾

The Lickey Incline is something special. It's arguably unique among main line climbs as it's called an 'incline' rather than a 'bank'. This terminology reflects the extreme nature of the task that faces northbound trains, with two miles of uninterrupted 1-in-37¾ to negotiate between Bromsgrove and Blackwell.

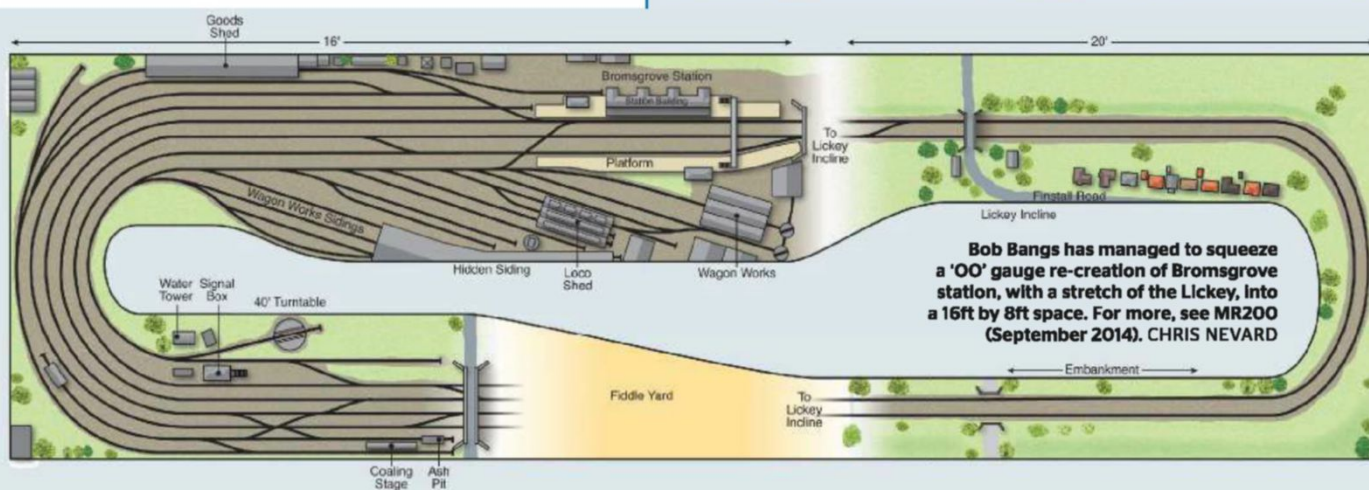
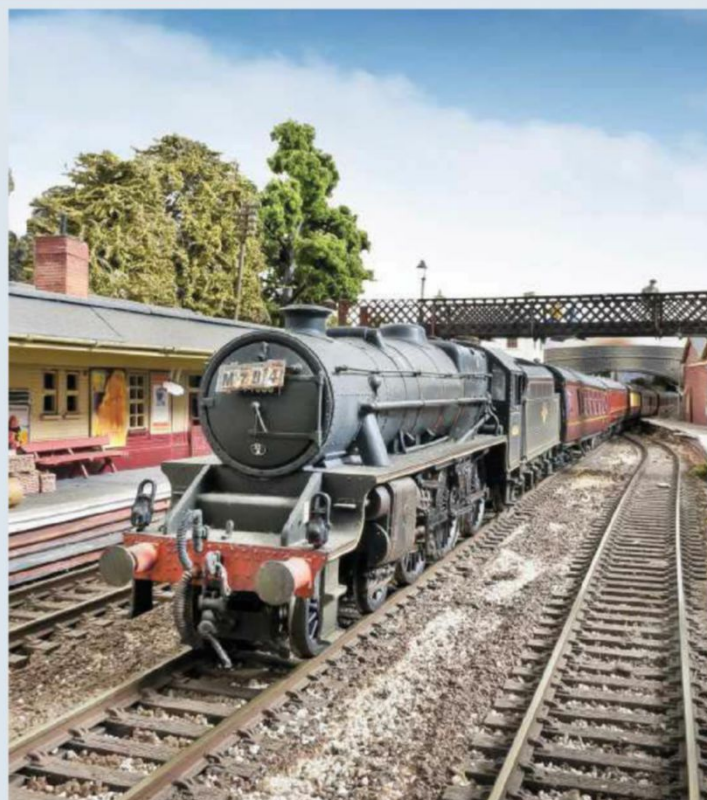
Of course, there are steeper main line gradients - the short section of 1-in-36 on the climb to Dainton, for example, but nothing matches the sheer slog of the Lickey. It's one of the few locations in Britain where you can still find locomotives regularly used on banking duties. You won't notice them too much, however, in the air-conditioned comfort of a 'Voyager'.



VISIT IT

There are a couple of vantage points from which you can observe trains on the Lickey, but the best one is a footpath near Vigo Bridge, where the railway crosses the B4076 road. The path leads to a good vantage point, from which you can safely view the railway.

Layout idea



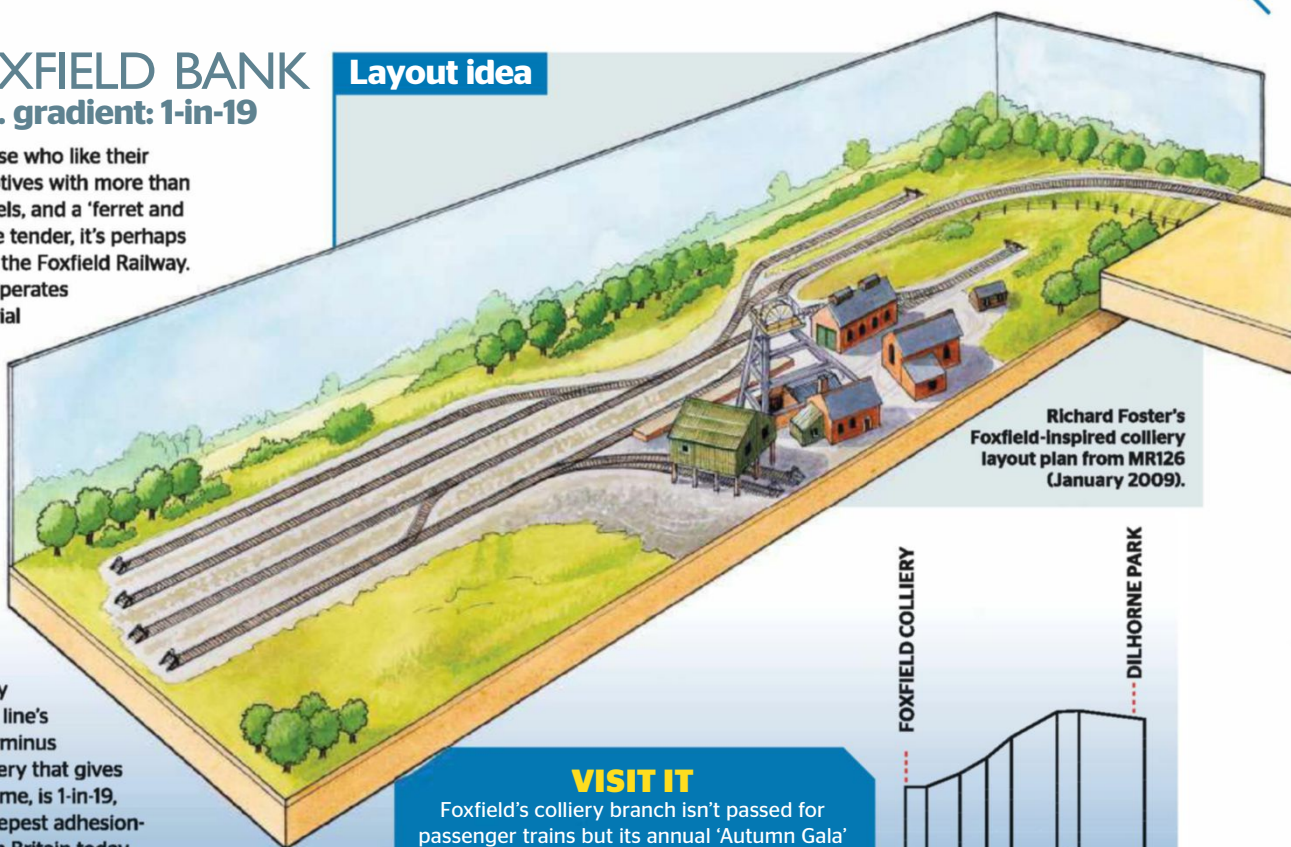
2 FOXFIELD BANK

Max. gradient: 1-in-19

For those who like their locomotives with more than four driving wheels, and a 'ferret and dartboard' on the tender, it's perhaps easy to overlook the Foxfield Railway. After all, it only operates so-called 'industrial locomotives' and it's only 3½ miles long. But there are very few places where you can hear a locomotive being worked as hard: full forward gear and the regulator wide open. The colliery branch, from the line's Dilhorne Park terminus down to the colliery that gives the railway its name, is 1-in-19, making it the steepest adhesion-worked railway in Britain today.

They might be small, but the Foxfield Railway's extensive fleet of industrial locomotives can still put on a hugely impressive display on the 1-in-19 climb from the colliery that gave the railway its name. Beyer Peacock 0-4-OST No. 1827/1879, Bagnall 0-6-ODM *Wolstanton No. 3* and Hunslet 0-6-OST *Whiston* provide the power on a demonstration goods train on September 27 2015.
LES NIXON

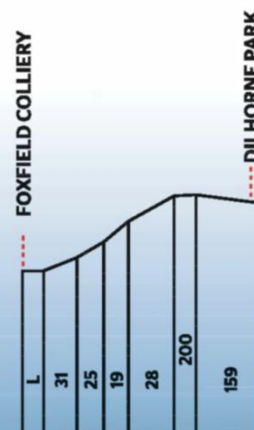
Layout idea



Richard Foster's Foxfield-inspired colliery layout plan from MR126 (January 2009).

VISIT IT

Foxfield's colliery branch isn't passed for passenger trains but its annual 'Autumn Gala' is the ideal occasion on which to see goods trains thrashing up the bank. See www.foxfieldrailway.co.uk



'J94' 0-6-OST No. 68012's exhaust fills the crisp winter sky as it climbs Hopton Incline with a freight train for Friden in December 1966. The incline's steepest sections are 1-in-14. LES NIXON



HOPTON INCLINE

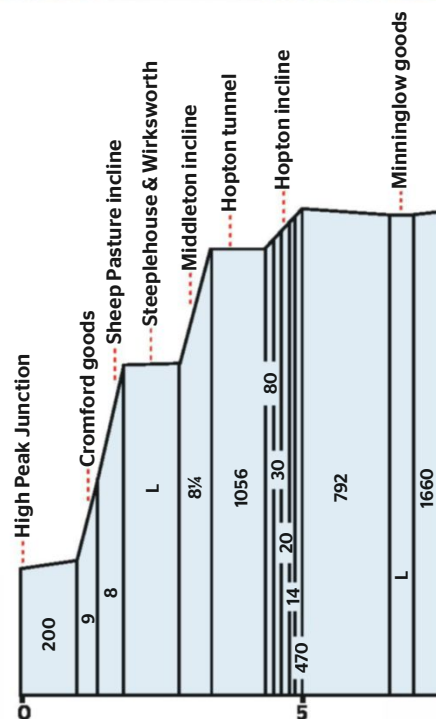
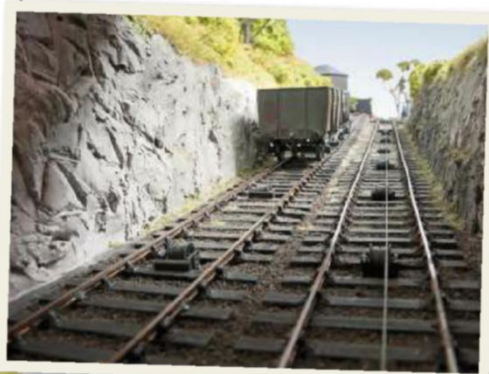
Max. gradient: 1-in-14

The Cromford & High Peak Railway was built at a time when locomotives weren't regarded as a primary source of motive power. The rocky Derbyshire landscape provided engineer Josias Jessop with a huge challenge: the line had to climb nearly 1,000ft from Cromford to the summit at Ladmanlow, dropping over 750ft in eight miles to Whaley Bridge.

Stationary engines were provided to haul wagons up the numerous incline planes, and horses would do the rest. The railway was altered for locomotive haulage, and while some rope-worked inclines remained, Hopton Incline became adhesion worked - a considerable feat, considering some parts of it are as steep as 1-in-14!

VISIT IT

The CHPR closed in 1967, but the trackbed is now the High Peak Trail. Spend a day walking along it, imagining what it must have been like on the footplate of a 'J94'.



Layout idea

'J94' No. 68006 draws a train over the kip on Robin Whittle's 'P4' take on Sheep Pasture incline (MR171, July 2012). CHRIS NEVARD



HOLLOWAY BANK

A gradient of 1-in-107 is child's play compared to some of the others listed here, but from a standing start at London King's Cross, it provided one of the stiffest tests on the whole of the East Coast Main Line. LNER directors were left open-mouthed when GWR No. 4079 *Pendennis Castle* marched confidently up Holloway Bank, through Gas Works and Copenhagen tunnels, in 1925...

'A3' No. 60063 *Isinglass* makes a spectacular sight on Holloway Bank with the Down 'White Rose' in 1950. F.R. HEBRON/
RAIL ARCHIVE STEPHENSON

10 BEST OF THE REST

SEVERN TUNNEL

Tunnels are usually built to avoid going up and over hills, so why is one included here? Railway tunnels under rivers are few and far between, but in order to go under a river, you have to drop down to sea level - and then go down even further. The Severn Tunnel is the highest profile under-river tunnel. The top of the bore was 30ft (now 50ft) below the lowest part of the river bottom, so there are gradients of 1-in-100 and 1-in-90 either side of the lowest part of the tunnel.

Steve Fay's superb 'O' gauge model of the Severn Tunnel, which will appear in *Model Rail* later in the year. CHRIS NEVARD



SHAP

Pity William Stanier when he had to design a high-speed locomotive for the West Coast Main Line - he had to combine the speed of a racehorse with the pulling power of an ox to cope with WCML's challenging terrain. Beattock is probably the stiffer test - ten miles in the 1-in-70s - but Shap is arguably the most photogenic, particularly as it was in the late 1960s when grubby steam locomotives provided a helping hand on the four-and-a-bit miles of 1-in-75 north of Tebay.

A fine shot of 'Black Five' No. 44727 with a Down freight at Greenholme, Shap, being banked by an unidentified Standard '4MT' 4-6-0 in July 1966. LES NIXON



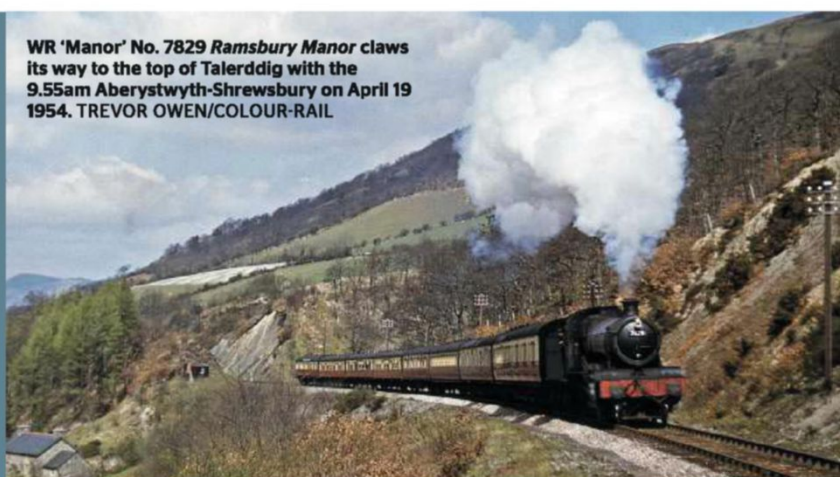
Gresley 'V2' No. 60813 bursts from Whitrope Tunnel in April 22 1965. The crew can now rest as it's downhill all the way to Hawick. TREVOR OWEN/COLOUR-RAIL

WHITROPE

The Victorians believed that they could conquer any landscape and railway promoters were no exception. It didn't matter how demanding the terrain was - if you could steal a march on your competitor, then the railway would be built. This was typified by the North British Railway, which drove its line (dubbed the Waverley Route) across the border lands from Edinburgh to Carlisle, including the 22-mile stretch from Hawick to Newcastleton that climbed to 1,006ft and dropped back again.

TALERDDIG

Wales is not a flat country either, and one of the hardest climbs was eastbound from Machynlleth. Starting out from almost sea level, the former Cambrian main line climbs for nearly 14 miles to Talerddig, with the two miles at 1-in-52 being the hardest stretch. The world's deepest rock cutting was dug here to smooth out the climb.



WR 'Manor' No. 7829 Ramsbury Manor claws its way to the top of Talerddig with the 9.55am Aberystwyth-Shrewsbury on April 19 1954. TREVOR OWEN/COLOUR-RAIL

UPWEY

Coastal towns needed rail access, but they were usually at a lower level than the surrounding landscape. Weymouth was typical of this, and the line from Dorchester dropped at quite a rate. Job done for southbound crews, but what goes down must go up, and returning crews had to tackle five miles of 1-in-74/1-in-50 and 1-in-52!

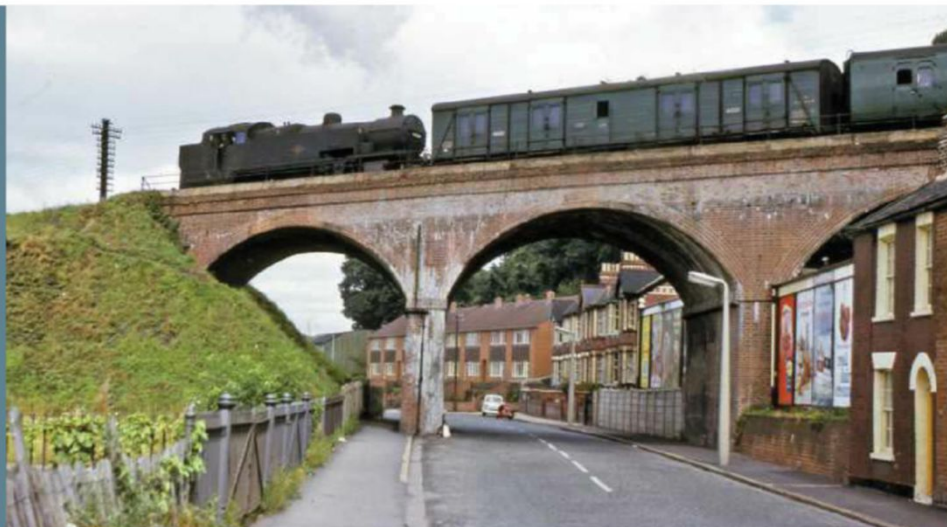
Below: The bottom of a 1-in-52 gradient is not the best place to put a station, but that didn't stop the GWR from building Upwey Wishing Well Halt on Upwey Bank. Standard '5MT' No. 73020 digs its heels in before the climb on May 20 1967. R. PATTERSON/COLOUR-RAIL



EXETER

Exeter has two stations, the ex-Southern Region Central and the Western Region St David's. They're connected, which gave the Southern access to Devon and Cornwall. The problem was the difference in height between the two; the gradient is 1-in-37 and on a curve, which required banking in steam days, and is still an operational headache, particularly in leaf-fall season.

Maunsell 'W' 2-6-4T No. 31924 lends a hand to the 'Atlantic Coast Express' on the 1-in-37 climb from Exeter St David's to Exeter Central on August 22 1963. G. PARRY COLLECTION/COLOUR-RAIL



MORTEHOE

The Barnstaple to Ilfracombe branch was a vital link in the chain of moving scores of holidaymakers from London to the North Devon coast. The line's summit was at Morteohoe, northbound trains having climbed the 1-in-40/1-in-41, while southbound trains tackled the 1-in-36 straight from Ilfracombe station.

Morteohoe was a stiff climb whichever way you approached it. The photographer has not recorded which way 'West Country' No. 34104 *Bere Alston* is headed in July 1959, but it's certainly working hard. DEREK CROSS/COLOUR-RAIL

TRALEE & DINGLE

Ireland's most heavily graded railway was the 3ft gauge Tralee & Dingle, a line held in as much regard as the Lynton & Barnstaple, or the Ffestiniog. The classic 2-6-0Ts (and one solitary 2-6-2T) battled many miles of 1-in-30-odd gradients, with several as steep as 1-in-29 as they

threaded their way from the main line at Tralee, through the beautiful Dingle peninsular.

Tralee & Dingle Railway Kerr Stuart 2-6-0T No. 8T crosses Lispole Viaduct, at the Dingle end of the railway in June 1953. J.M. JARVIS/COLOUR-RAIL



...AND FINALLY SNOWDON

We've deliberately ignored rope and cable-worked inclines, but we couldn't ignore the Snowdon Mountain Railway, the only rack railway in the UK. Gears under the locomotives mesh with a toothed rack between the rails, enabling the Swiss-built 0-4-2RTs and Hunslet diesels to push their single-coach trains up the 1-in-5 gradients from Llanberis to some 3,500ft above sea level.

One of the Snowdon Mountain Railway's Swiss Locomotive & Machines Works 0-4-2RTs near Snowdon's summit with one of the two 'Snowdon Lily' saloons in 2015. PHOTOLIBRARY WALES/ALAMY



CREATE A SHAP SOLDIER



To mark the 50th anniversary of the closure of Tebay shed, **GEORGE DENT** recreates one of the last steam locomotives employed on Shap banking duties.

00
GAUGE

MODEL
Hornby R2714
BR '4MT' 4-6-0
Price (rrp): £169.99

AVAILABILITY
Hornby stockists

DIFFICULTY



**ESTIMATED
TIME**
12 hours

**TOOLS
NEEDED**

- Knife
- Straightedge
- Files
- Abrasives
- Tweezers
- Round-nose pliers
- Metal cutting snips
- Drill and bits
- Cotton buds
- Paintbrushes
- Airbrush and equipment (optional)

Much of my modelling output is inspired by images, be they archive photographs or sights captured by my own eyes when out and about.

For this project, I unearthed a superb photograph of BR '4MT' No. 75039, portraying the locomotive in its final weeks of service, acting as one of Tebay's fleet of bankers for the taxing climb up to Shap summit.

One of the most notable prototype features that demanded replication was the crudely hand-painted smokebox number and 12E shedcode; the cast 'plates' having already been removed.

The crusty and weathered appearance also needed to be captured in model form. As well as the layers of grey-brown grime, white staining is visible, emanating largely from the regulator valve packing. Emulsified grease on the valve gear and connecting rods, and patches of corrosion on the footplate and valancing, were also clearly visible.

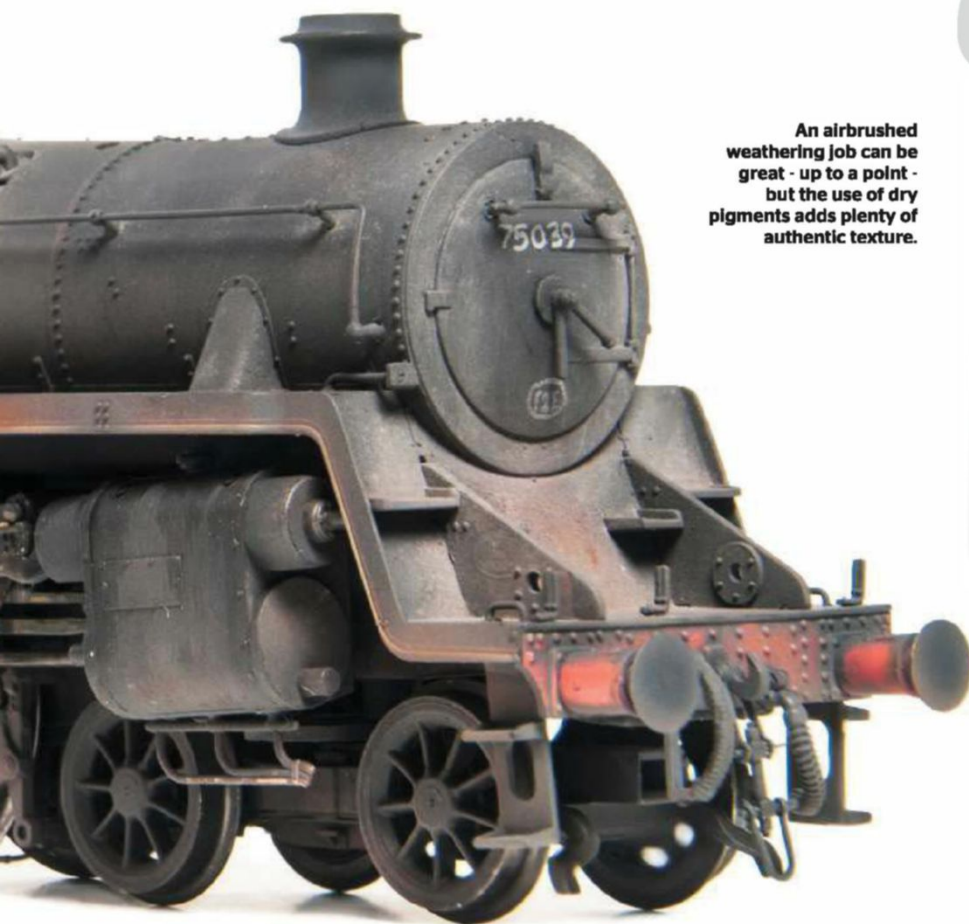
Using the fine Hornby BR '4MT' as a basis, a number of minor detail tweaks and upgrades were required, especially to the smokebox. As well as



A typical Tebay banker in the last years of steam: Standard '4MT' No. 75024 awaits its next banking duty on August 5 1967. The locomotive has a handmade smokebox numberplate and faint traces of lined black can be seen, as well as its former Western Region 'blue spot' power code. RAIL PHOTOPRINTS

changing the locomotive's number and adding later-style BR crests, it needed a small but vitally important detail - the overhead line warning stickers. Finally, I also indulged in a spot of scratch-building, with a speedometer drive being fabricated from off-cuts of plastic rod, strip brass and a steel guitar string.

Hopefully, my rendition of No. 75039 has captured the look of the real thing, as it counted down the days until withdrawal and its appointment with the scrap man. What a sad end to a powerful and versatile locomotive, that had been in service for less than 15 years. **MR**



An airbrushed weathering job can be great - up to a point - but the use of dry pigments adds plenty of authentic texture.

Expert Tip

To avoid messy joints, always decant a small blob of cyano glue onto a scrap of plastic or card, applying the adhesive to the parts with a cocktail stick.

SHOPPING LIST

- BR steam-era Pressfix transfers, sheet 14. HMRS. **Web:** www.hmrs.org.uk
- Handrail knobs (medium length) and 0.33mm brass wire. Alan Gibson. **Tel:** 0161 678 1607. **Web:** www.alangibsonworkshop.co.uk
- RailMatch 402 Frame Dirt, 403 Roof Dirt, 405 Dark Rust, 412 Weathered Black enamel paints. Howes Models. **Tel:** 01865 848000. **Web:** www.howesmodels.co.uk
- Lifecolor paints and dry pigments, airbrushes and equipment. The Airbrush Company. **Tel:** 01903 767800. **Web:** www.airbrushes.com
- MIG weathering powders. Scale Model Shop. **Tel:** 01422 405040. **Web:** www.scalemodelshop.co.uk

TEBAY INSPIRATIONS

Tebay is on the climb to Shap summit, but at 1-in-146, it's on a much easier grade than the four miles of 1-in-75 that follows. It was quite a large railway junction, despite its remote location, as it was where the line via Stainmore joined the West Coast Main Line.

The LNWR opened a shed for banking locomotives on the south side of the station, which was rebuilt in the early BR era. It was home to bankers until December 1967 - hence the wintry photographs used here, in what's supposed to be the spring issue.

HOW TO DO IT: RE-NUMBER WITH PRESSFIX DECALS



The Hornby '4MT' is a lovely model, but my donor engine required a few detail modifications. First, though, we need to change its identity and add the later-style BR crests.



Original formula T-Cut colour restorer, applied sparingly with cotton buds, slowly removes factory-printed numbers and logos. Rub gently and buff dry to leave a shiny, smooth surface.



Leave the model overnight for any solvent residue to evaporate, before applying decals. HMRS Pressfix transfers need to be cut out from the backing film (don't cut all the way through the paper). Lift the transfer gently.



LMS designed 2-6-4Ts were commonly found at Tebay, with the post-war Charles Fairbairn design replacing those penned by Henry Fowler. Fairburn No. 42095, built at Brighton in 1951, assists a freight train past Shap Wells in 1964. RAIL PHOTOPRINTS



A fine view of the LMS straight shed at Tebay in August 1956, with Fowler '4F' 0-6-0s and 2-6-4Ts resting between duties. DAVE COBBE COLLECTION/RAIL PHOTOPRINTS



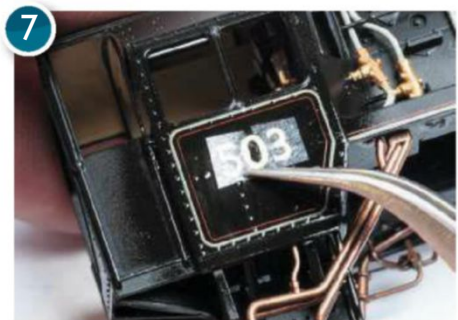
Position the decal carefully. The thin paper film is slightly translucent. When you're happy, with the position press the decal onto the surface with the edge of a cotton bud, especially over surfaces with raised relief.



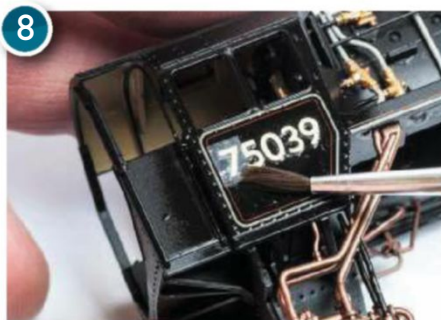
Water, or preferably Micro Set solution, is then brushed onto the paper film. Leave for a few minutes until the gum has softened. Micro Set, or other decal setting solutions, are more effective than water.



Lightly brush the paper film away and apply more Micro Set to remove any traces of adhesive. Don't rub the decal or attempt to dry it out with cotton buds - allow it to dry naturally.



The same process is followed for the new cabside numbers. When applying individual digits, mark out the centre point of the panel and add the middle digit first, followed by the adjacent numerals.



A strip of low-tack masking tape can be used as a positioning guide, if desired, ensuring the numbers are correctly aligned. Once all transfers are in place, leave overnight before sealing with a coat of clear varnish.



BRITAIN'S BEST BANKERS



1 MIDLAND RAILWAY 0-10-0 No. 2290

Number built: 1

Builder: Midland Railway, Derby.

Driving wheel diameter: 4ft 7½in.

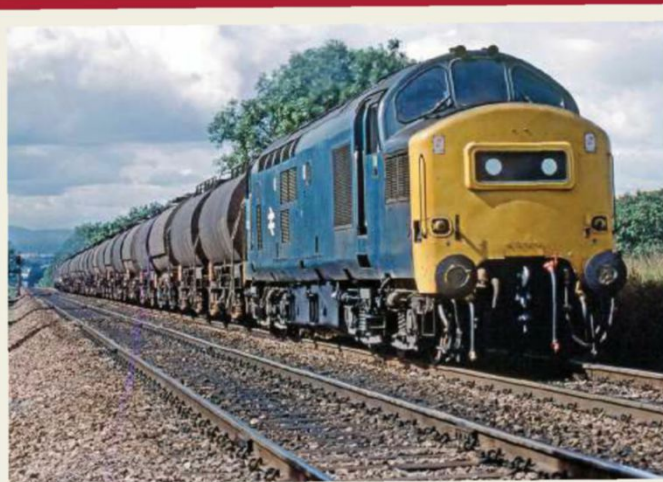
Cylinders: 16¼in by 28in (4).

Tractive effort: 43,313lb.

Duties: This is arguably the most famous banker of all time. Dubbed 'Big Bertha', it was designed by the Midland Railway - a railway known for its 'small engine policy' - specifically for banking the fearsome Lickey Incline. It entered service in 1919 and was withdrawn in 1956, although its famous headlamp was passed to its successor, '9F' No. 92079.

Model it: Quite difficult as DJH has stopped producing its 'OO' kit; nothing in 'N' or 'O'.

'Big Bertha' was re-numbered 58100 by BR and was photographed in good condition and hard at work in 1955. C. BANKS COLLECTION/COLOUR-RAIL



2 BR CLASS 37 Co-Co

Number built: 309.

Builder: English Electric (Vulcan Foundry/RSH).

Driving wheel diameter: 3ft 9in.

Engine: English Electric 12CSVT.

Horsepower: 1,750.

Duties: Was there a duty that the ever-popular Class 37 couldn't perform? The English Electric Co-Cos were called on for banking power in South Wales, on stone trains around Peak Forest and, of course, on the Lickey Incline. Class 37s were prime Lickey banker candidates until the late 1980s.

Model it: Graham Farish ('N'), Heljan ('O') and Bachmann, Hornby and ViTrains ('OO').

37254 climbs the Lickey incline on August 2 1983 with a heavy train of oil tanks, assisted at the rear by 37180 and 37298. BRIAN ROBBINS/RAIL PHOTOPRINTS



● Turn to page 58 to find out how George created this weathered finish



3 BR CLASS 13 0-6-0+0-6-0DE

Number built: 3

Builder: BR Darlington.

Driving wheel diameter: 4ft 6in.

Engine: English Electric 6KT (2).

Horsepower: 700hp.

Duties: The three Class 13s were created in 1965 from 350hp shunters D4187/88/90 and D4189/3697/3698, the latter becoming the cabless 'slave' units. 13001-003 were built for the new 'hump' yard at Tinsley, but were withdrawn in the 1980s, owing to the decline in wagon load freight.

Model it: Olivia's Trains offers a ready-to-run Class 13 in 'OO' using two Bachmann models.

Class 13 13001 shoves yet another train over Tinsley's hump on April 20 1979. COLOUR-RAIL

TEBAY INSPIRATIONS



An atmospheric shot of Tebay shed on December 12 1967, as 'Britannia' No. 70024, minus its *Vulcan* nameplates, arrives with a northbound freight working. '4MT' No. 75030 moves off shed to lend a hand. LES NIXON



With No. 75030 pushing from behind, No. 70024 makes a spectacular sight as it powers its way towards Shap summit on December 20 1967. This was the final week of steam on this stretch of the West Coast Main Line. LES NIXON



Another wintry scene, but from the year before steam ended on Shap. The writing was very clearly on the wall in this shot, as an unidentified Fairburn 2-6-4T helps this English Electric Type 4 on December 24 1966. LES NIXON

HOW TO DO IT: DETAIL A HORNBY '4MT'



My chosen prototype had lost its smokebox numberplate and shedplate, so the unwanted plastic was removed with a scalpel and files, before the surface was smoothed with successive grades of abrasive sticks.



The upper door hinge was reinstated with 10 by 20thou' plastic strip and the handrail replaced with brass knobs and 0.33mm stiff brass wire. Fix the wire with cyano glue, trimming the excess when dry.



I also opted to replace the plastic smokebox door handle with a set of turned brass components. Again, secure the parts with a tiny drop of cyano glue, trimming away the excess when fully cured.

Limescale streaks and a dusty, rusty exterior help to capture the essence of late 1960s BR steam.



A speedometer drive was also required for my re-creation of No. 75039, so I made my own from an old steel-wound guitar string (.046 gauge), a length of 2.5mm diameter plastic rod and a scrap of brass strip.

BRITAIN'S BEST BANKERS



4 COLLETT '5101' 2-6-2T

Number built: 180.

Builder: GWR Swindon.

Driving wheel diameter: 5ft 8in.

Cylinders: 18in by 30in (2).

Horsepower: 24,300lb.

Duties: You wouldn't consider Charles Collett's 'Large Prairie' a natural banker, but those 5ft 8in diameter driving wheels could put down a lot of power. They were a popular choice at Severn Tunnel Junction, in the West Midlands and operating out of Newton Abbot to give trains a helping hand.

Model it: An old Farish model in 'N' and the equally ancient ex-Airfix model from Hornby ('OO'), plus a new 'O' gauge model from Heljan.

GWR '5101' No. 4173 helps a goods train as it approaches Old Hill tunnel on the steep climb from Cradley Heath to Rowley Regis on August 30 1962.

MICHAEL MENSING



5 LMS '3F' 0-6-0T

Number built: 422.

Builder: LMS Horwich plus Bagnall, Beardmore, Hunslet,

North British and Vulcan Foundry.

Driving wheel diameter: 4ft 7in.

Cylinders: 17in by 24in (2).

Tractive effort: 16,530lb.

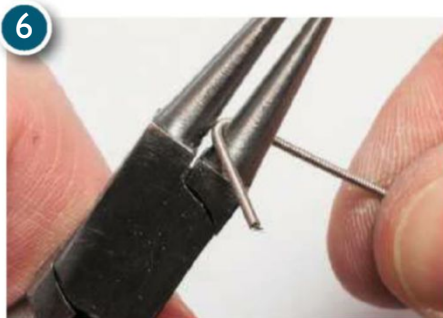
Duties: Henry Fowler's 'Jinty' is not the biggest locomotive you'll ever see, but it provided useful banking power on not only the Lickey (often in pairs or even coupled in threes and mixed and matched with WR '94XX' 0-6-0PTs) but also as the Radstock banker on the Somerset & Dorset.

Model it: Excellent models from Farish ('N'), Bachmann Branchline ('OO') and a new 'O' gauge version to come from Dapol.

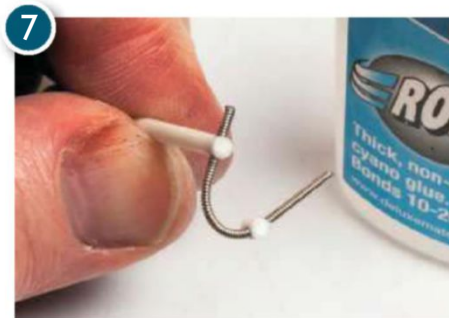
Ex-works 'Jinty' No. 47502 drops down the Lickey Incline, about 250 yards behind a southbound freight, in July 1956. Permissive working like this saved southbound paths. COLOUR-RAIL



A hole large enough for the guitar string to pass through is drilled through the plastic rod, near one end. The rod is then cut to form a 1.5mm long section and the faces tidied with abrasives.



The string is shaped to the desired profile with a set of round-nose pliers, ensuring plenty of material is left at either end for trimming after assembly.



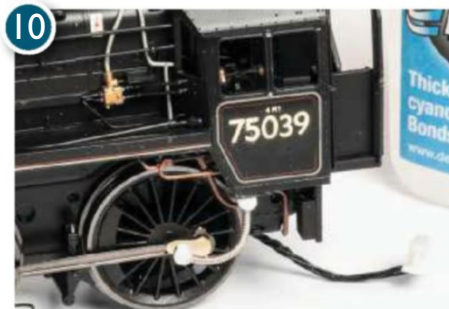
Fix the small boss formed from the rod onto one end of the wire with a drop of cyano glue. Drill another hole through the rest of the rod and fix in position, using the model as a guide to the overall size.



While the drive assembly cures, form a short crank (approximately 8mm long) from 1mm thick brass strip, cutting roughly with a set of snips and forming the final profile in a mini vice with a needle file.



Secure the 'big end' of the crank to the face of the crank pin, ensuring that the 'small end' sits exactly over the wheel's centre. Allow the cyano glue to cure fully.



Trim away the excess wire at the crank end. Leave about 5mm of wire protruding at the cab end of the drive unit to act as a mounting lug, drilling a hole in the underside of the cab and secure with glue.

EWS/DB CLASS 66 Co-Co



DB's Lickey banker 66057 - note the additional headlamp - climbs towards Hampstead Heath summit on September 27 2013 with a Marks Tey-Brentford Town freight. These '66s' are often used away from the Lickey. ANTONY GUPPY

6

Number built: 250.
Builder:

General Motors EMD.

Driving wheel diameter: 3ft 6in.

Engine: EMD710.

Horsepower: 3,300hp.

Duties: You'd think that an archaic practice such as banking would have been consigned to the railway history books, but no - DB specifically allocated 66055-059 to banking the Lickey and they're easily identified by their extra headlamps.

Model it: Dapol and Farish in 'N', Bachmann and Hornby in 'OO'. 'O' gaugers' will have to build the PR Model Railway Products (www.prmrp.com) kit.



7

BR '9F' 2-10-0

Number built: 251.

Builder: BR Crewe/Swindon.

Driving wheel diameter: 5ft 0in.

Cylinders: 20in by 28in (2).

Tractive effort: 39,670lb.

Duties: The massive proportions of Robert Riddles' 2-10-0 made it an ideal banking locomotive. No. 92079 is probably the most famous as it replaced 'Big Bertha' on the Lickey, but the most awesome spectacle would have been Tyne Dock-Consett ore trains top-and-tailed with '9Fs'.

Model it: Dapol ('N'), Bachmann and Hornby ('OO'), with numerous offerings in 'O' to come from the likes of Finescalebrass and Masterpiece Models.

'9F' No. 92062 banks an unidentified classmate past Annfield Plain in 1963 with a Tyne Dock-Consett ore train. All sorts of motive power could be used to bank these trains, from old North Eastern Railway designs to Class 40s. PETER J. ROBINSON

HOW TO DO IT: WEATHER A LATE 1960s STEAM LOCOMOTIVE

1



After ensuring that the model is clean of loose debris, oil and greasy deposits, weathering begins with a fine misting of RailMatch enamel Frame Dirt using an airbrush, concentrating on the lower areas.

2



A misting of Roof Dirt follows, working on the upper reaches of the boiler, tender, smokebox and footplate. A mix of Dark Rust and Roof Dirt follows, adding the effect of corrosion to the footplate and tender top.

3



Prototype images revealed limescale streaks emanating from the various parts of the boiler, especially the regulator valve packing. A mix of light grey and Frame Dirt was built up in thin layers.

4



Before the weathering was complete, a white ink pen was used to replicate the crudely painted number and shedcode on the smokebox front. Further misted weathering coats toned down the stark white ink.

5



RailMatch Weathered Black was the darkest shade used, and I reserve it for adding smoke staining along the boiler and tender tops, as well as for darker streaks, or to accentuate shadows.

6



A mix of Humbrol enamels - No. 113 Matt Rust, No. 27004 Metalcote Gunmetal and No. 9 Gloss Tan - was stippled onto the connecting rods and valve gear, generating a suitably rusty yet greasy sheen.

BRITAIN'S BEST BANKERS



8

SOUTHERN RAILWAY 'Z' 0-8-0T

Number built: 8.

Builder: SR Brighton.

Wheel diameter: 4ft 8in.

Cylinders: 16in by 18in (3).

Tractive effort: 29,376lb.

Duties: Lots of coupled wheels was a good way to maximise adhesion, which is why Richard Maunsell designed the 'Z' 0-8-0T for use in Feltham yard, rather than persist in ex-LSWR designs. The 'Zs' were replaced there by new diesel shunters and were transferred to Exeter for banking between stations... only were replaced here by WR pannier tanks when both stations became part of the Western Region.

Model it: 'OO' kits from Falcon Brassworks (www.falconbrassworks.com) and Golden Arrow Productions (www.goldenarrow.me.uk); in 'N' from GEM (<http://lytchettmanor.co.uk>).

Maunsell 'Zs' Nos. 30952 and 30954 prepare to bank a heavily laden train for Plymouth out of Exeter St Davids up to Exeter Central in August 1959. GEOFF RIXON



9

CALEDONIAN RAILWAY '944' 4-6-2T

Number built: 12.

Builder: North British Locomotive Company.

Driving wheel diameter: 5ft 9in.

Cylinders: 19½in by 26 (2).

Tractive effort: 21,922lb.

Duties: Some bankers were designed specifically for the task; others became bankers out of necessity. The LMS transferred the remaining Pickersgill 4-6-2Ts to Beattock for banking duties on the arduous climb, as Stanier and Fairburn 2-6-4Ts made them redundant in the Glasgow suburbs. Their reign at Beattock didn't last long - they'd all gone by 1953.

Model it: In kit form from DJH in 'OO' (www.djhmodelloco.co.uk) and Ace Products in 'O' (www.a4ace.supanet.com).

A fine portrait of ex-CR '944' 4-6-2T No. 15356. Displaced from the Glasgow area by more modern designs, the class continued as Beattock bankers until the last was withdrawn in 1953. STEAM RAILWAY COLLECTION

7



Particular attention was paid to working in pigments around the chassis frames, smokebox and footplate, for a suitably dusty sheen, and providing a welcome counterpoint to the smooth airbrushed 'dirt'.

8



After leaving everything to dry overnight, the model was finished off with dry pigments. Lifecolor PG101 Golan Earth and PG107 Burned Rust were mixed with MIG P039 City Dust and P236 Grimy Black.

TOP TIP

Take the time to ensure all wheels and electrical contacts are cleaned of any paint or dry pigments after weathering, re-lubricating any moving parts where necessary.

9

The crudely painted smokebox number and shedcode were replicated with a fine Rotring ink pen.



10 LNER 'U1' 2-8-0+0-8-2T

Number built: 1.

Builder: Beyer Peacock.

Driving wheel diameter: 4ft 8in.

Cylinders: 18½in by 26in (6).

Tractive effort: 72,940lb.

Duties: It may have been Britain's only six-cylinder steam locomotive, and it may have had a tractive effort of over 70,000lb, but the Nigel Gresley-designed Garratt was not a success. Electrification

was the only way to properly work the line to Wath (see p47), and that made No. 69999 homeless. It couldn't surpland 'Big Bertha' on the Lickey and was withdrawn in 1955.

Model it: In kit form only: DJH in 'OO' (www.djhmodelloco.co.uk) and Gladiator in 'O' (www.gladiatormodels.com).

Nigel Gresley's giant 'U1' 2-8-0+0-8-2T No. 69999 arrives at the foot of Worsborough bank in March 1953. LES NIXON

SEE MORE

Keep up to date with George's projects by visiting www.model-rail.co.uk and clicking on 'George's Blog' on the navigation bar

■ Also visit www.instagram.com/dentmodelmaker

2 YEARS FOR T



PRINT

26 issues for £48 when you pay by one-off payment

TERMS & CONDITIONS: Subscriptions will start with the next available issue. The minimum term is 13 issues. This offer closes on May 3 2017. This offer cannot be used in conjunction with any other offer. Cost from landlines for 01 numbers per minute are (approximate) 2p to 10p. Cost from mobiles per minute (approximate) 10p to 40p. Costs vary depending on the geographical location in the UK. You may get free calls to some numbers as part of your call package - please check with your phone provider. Order lines open 8am-9.30pm (Mon-Fri), 8am-4pm (Sat). UK orders only. Overseas? please phone +44 1858 438828 for further details. Calls may be monitored or recorded for training purposes. For full terms and conditions please visit www.greatmagazines.co.uk/offer-terms-and-conditions

FOR OVERSEAS PRICES PLEASE CALL:

**+44 1858
438828**



**QUOTE:
DDAA**

THE PRICE OF

1

TWO YEARS OF *MODEL RAIL* FOR THE PRICE OF ONE

We have a superb offer for you this issue - two years of *Model Rail* for the price of one! Every issue is packed with superb photography and behind-the-scenes articles about Britain's best model railways, in-depth reviews of new models, real-life inspiration and expert 'how to' advice. Now, with this fantastic offer, you can get an entire year absolutely free. Don't miss out - subscribe today!

**DON'T
MISS OUT**
OFFER CLOSES
MAY 3

SUBSCRIBE TODAY AND BENEFIT FROM:

- Free delivery to your door
- Save on shop prices
- For a limited time only, get two years of *Model Rail* for the price of one when you subscribe

SUBSCRIBE
BY PHONE
OR ONLINE

01858 438884

Lines open
Mon-Fri 0830-2130,
Sat 0800-1600

www.greatmagazines.co.uk/modelrail

ALL FIGURED OUT



You've created the model railway stage, but now you need to make your cast of miniature figures act like the real thing. **PAUL A. LUNN** shows you how.



Populating a layout seems to be a modelling blind spot. Layouts either have too few people or too many, and in unrealistic poses or situations.

It's a bit easier in larger scales, where the quality of the figures is higher, but there's a real dearth of quality figures in 'OO'. There are exceptions, of course, such as Bachmann's Scenecraft range. Many modellers opt for either smaller 'HO' scale figures from European manufacturers, or worse: those bulk packs of underscale people, some in ridiculously unhelpful poses, manufactured in some Far Eastern country. I'm certainly not anti-'HO', but mixing of

scales should only be considered for aesthetic reasons, such as achieving a forced perspective effect. But more of that later on.

Many people populate their layouts by simply plonking figures on it, without sparing a thought for plausibility. When you consider placing a figure, always bear in mind the following:

- What activity is a particular figure, or group of figures, undertaking?
- Where did that person come from?
- What is each person doing, and what are they about to do?
- If it's a group of people, how are they interacting with each other?

The main image - Terence Cuneo's painting *Track Laying by Night* - amply

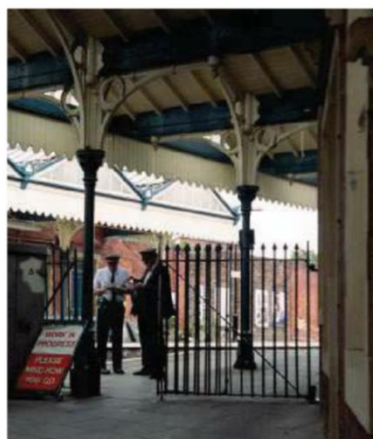
illustrates this. Look at the image and you'll see the group of men, bottom left, with tools at the ready. Or they could be on a break and awaiting the next task.

The figures on the crane are almost static. The supervisors are quite static too, completely opposite to the platelayers manipulating the rails. In this case, pay attention to the position of their limbs, the angles of their heads, and so on.

But no matter how good it is, this is still a painting. Let's study some real railway workers and see what can be transferred to model form:



PEOPLE INSPIRATION



When it comes to populating a layout, there's no better place to start than by observing real people. You're not just looking at their poses, or what they're wearing, but also their behaviour.

What do you notice most about these two men, beautifully framed by the architectural features of Birkdale station (on the MerseyRail system)? I focused on their bowed heads, which would be unusual in model form, but also note their arm and hand positions. Also note the detail: leather belt bags, hats and the hand-held paperwork (although bear in mind that a sheet of A4 paper in 'OO' gauge measure 4mm by 3mm!)

It's not just about the figures, however; the setting and its composition can make a big difference.



A figure in a dynamic pose can create interest, although some poses, if frozen in plastic, would be unrealistic. Figure 1, with the shunter's foot off the ground, illustrates that point. However,



the issue is easily resolved - see the second photograph. The shunter is 'static' but he still seems animated as he looks left, towards an oncoming train.

What strikes me most about this group of trainspotters at Retford is their varied viewing positions, heights... and their attire. Could you imagine a group of young boys looking like this today? Some are in shorts, others are wearing trousers, while one sports that one-time fashion accessory, the bicycle clip!

Also notice how some spotters are in small groups, while others stand alone. There's much here to re-create in model form, with shoulder bags and note books, and it should be a particularly easy task.



PETER SALMON

BRITISH RAILWAYS

PETER SALMON



TRACK LAYING BY NIGHT

BRITISH RAILWAYS



PETER SALMON

A great way to have a figure on your layout normally associated with movement, such as a runner or cyclist, is to concoct a legitimate way of halting their movement. 'A4'

No. 60005 *Sir Charles Newton* holds up this railwayman with a bicycle (the signalman?) at Babworth, Nottinghamshire, which illustrates my point.



Here's an interesting cameo: uncoupling stock. Look at the young man between the platform edge and locomotive buffer - his stance appears to be one of trepidation. But he's merely preparing himself to duck under the buffer!



Postcards can be a great source of inspiration, especially for earlier periods. Note the formal and somewhat sombre attire, and the use of umbrellas for protection against the hot sunshine. Edwardian figures are available from www.petegossrailwaymodelling.co.uk



This small group of static trackside workers, away from the 'four foot' (between the rails) and 'six foot' (between the running lines) would be an ideal arrangement for a modern layout, as they won't foul the path of passing trains. Note the bowed heads and bent backs, and the position of the trio in relation to the power tool cases and the portable generator.



Uniforms changed in style over the years, so it's worth paying attention to dates and eras. These permanent way workers, controlling the flow of ballast at Mill Meece in Staffordshire, are sporting one of the most striking changes in uniforms: the high visibility jacket. The 'high vis' was trialled in 1964 and entered general usage a year later, thus we have a clear watershed for relevant periods. Note that the worker on the right has only one strap on the bib and brace; presumably the other one was broken.



Static poses such as this are easiest to replicate, being very similar to those found in ready-to-plant sets. You might expect to see such a pose on a more advanced layout, as in the brake van image here, but for entry level modellers, simply cutting off the toe end of both feet allows us to add a shunter onto this modified Hornby 'J70' 0-6-0T.



So much for individuals and small groups - let's have a look at something much larger. I'm a firm believer in creating focal points on a layout and here's a spectacular

example. You'd need quite a few spectators, varied in appearance and generally all watching the action.

Notice how the trailer's contents, a number of cardboard boxes, have been removed to lighten the load and possibly protect against further damage. At the other end, there are two groups of firemen on either side of the tractor unit

and two more on either side of the trailer.

The operation is a simple one, if somewhat arduous. The firemen on the left are trying to right the tractor unit, while the firemen on the opposite side are trying to stop it from crashing down onto the road and causing further damage. Both teams are using ropes and chains. I'd model this scene just before the strain is taken, or just after they've got everything back on its wheels.

Finally, think about the positioning of the police vehicles, the officers controlling traffic and the firemen and their equipment. They're not all visible in the photograph, but they'd certainly be present.



There's more to people than just poses. Researching railway documents will provide a lot of additional inspiration:

handcuffed. Whatever the circumstances, there's a human story here, and it would be easy to replicate with a small group of figures waiting at a station.

18

SECTION 2—continued

CLEANING AND DISINFECTION REGULATIONS—continued

Cattle wagons, and special trucks used for hauling manure.

62. Cattle wagons and special cattle vans must, on every occasion after use for conveyance of animals, be cleaned and disinfected before being used again, as follows:—

- (a) The floor, roof and sides of the inside of the truck; the sides, ends and fittings of the outside of the truck; and all other parts with which any animal or its droppings, or other excretion, have come in contact to be scraped and swept;
- (b) The scrapings and sweepings, and all dung, sawdust, litter and other matter to be removed from the truck;
- (c) The parts of the truck mentioned above to be thoroughly washed, scrubbed and scoured with water; and
- (d) Disinfected by being thoroughly coated or washed with the disinfectant.

After cleaning and disinfecting a truck which is fitted with a movable partition, the partition must be fixed at the "small truck" space.

Horse boxes (also called horse vans or motor trucks).

63. Horse boxes when used for horses, asses or mules, must, on every occasion after use, be cleaned and disinfected before being used again, as follows:—

- (a) The floor of the vehicle, and all other parts with which

The section on horseboxes is even more interesting. But what has all this got to do with railway modelling? It's this prototypical information that dictates what your figures will look like and what they'll be carrying - you'd need scraping tools, brooms, wheelbarrows, hose pipes and stirrup pumps, not to mention canisters or bottles of disinfectant. From this you can work out the figure poses; scraping, sweeping, spraying, shovelling and stirring (mixing water and disinfectant). And with all this detail, there's an opportunity to create an unusual yet extremely accurate scene of a handful of wagons, parked against a loading dock, with a group of staff in overalls undertaking such tasks.

It's easy to create a variation of either of these poses; substitute the figure up the ladder for someone undertaking repair work, justifying a longer stay in that position. For the platform image, let the figure be intercepted by a passenger asking for information - simple!

There's a good range of poses in this view of Stansted goods yard in the 1950s. It's a textbook example of teamwork, with staff and supervisors interacting, and all very easy to model. It's also worth noting how the ropes are fastened to the wagon's bufferbeam.

There's a whole range of signalling movements illustrated in these pages from the London Transport Executive's 1933 Rule Book (reprinted in 1949). Obviously, the arm movements (d and e) wouldn't be suitable, but a, b and c would work as static poses, with the others modelled in any static position taken from the overall movement.

Rules 50, 51.

Rule 50(a) continued.

25. To indicate that right-of-way has been granted by Hand-signalman, Green hand signal held steadily by Hand-signalman at points.
26. To caution Driver entering tunnel, station, or station-worked under special instructions, if they is not slow (Rule 46).
27. Not applicable to London Transport Railways or trams.
28. To indicate to Guard of train passenger train that all is right for his train to proceed (Rule 19).
29. To indicate to Driver that a repeating signal found before a stop signal is defective and cannot be placed at Gaiton (Clause 11).

Rule 51.

- (a) In the absence of flag—(i) Both arms raised above the head—driver stops or stop, then —
- (ii) When riding on or in a vehicle either arm moved up and down denotes stop.

Green hand signal held steadily by Hand-signalman at points.

Green hand signal held steadily by Hand-signalman after bringing train to a stand.

Green light held steadily above the head by person in charge.

Green hand signal waved slowly from side to side by Hand-signalman.

Green hand signal waved slowly from side to side by Hand-signalman.

Both arms raised above the head—driver stops or stop, then —

When riding on or in a vehicle either arm moved up and down denotes stop.

Either arm held in a horizontal position and then moved up and down denotes Caution of stop, then —

Either arm held above the head denotes Stop, then —

Either arm moved in a circular motion away from the body denotes move away from hand signal, then —

Either arm moved across and towards the body at shoulder level denotes move towards hand signal, then —

Caution of stop, then stop.

Stop.

Move away from hand signal.

Move towards hand signal.










REFINING 'READY-TO-PLANT' FIGURES

Most modellers are content to hack a building or even a locomotive apart, but comparatively few are willing to do the same with miniature figures. Despite their small size, it's not difficult to make a few changes to improve them, such as altering head or

arm positions. For this short demonstration, I used Dapol's pack of Railway Workmen (COO2). You get 38 in a pack (good value at £6) and, considering the age of the tooling, I think that they're well made. They're also perfect for adapting!

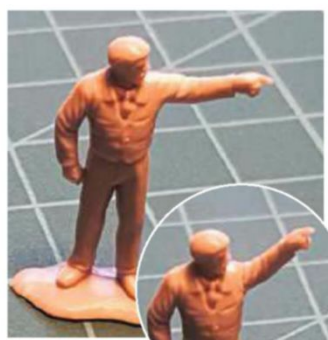
HOW TO DO IT: MODIFY DAPOL FIGURES



A razor saw is best for cutting. Wherever possible, never cut completely through a limb or head as the joining piece will help to keep the appendage in the correct anatomical position - and it eliminates the risk of losing small parts.



Put a small amount of glue into the gap, then press the arm to the body, closing the sawed gap. I prefer EMA Plastic Weld Cement as it looks like the moulded plastic when it cures. But use it sparingly - too much and you'll melt the plastic.



Sometimes you have to completely remove a limb in order to achieve the required angle. To make this chap point at something higher, I removed his arm with a razor saw, adjusted the base with files and glued the arm in place at the new angle.



Bending, kneeling, crouching or prone positions seem to have been overlooked by 'OO' gauge figure manufacturers. I modified this Dapol fireman by removing the coal shovel and reshaping the leg behind using a combination of knife scraping and filing. Both knees have been cut, from the rear, in the same way as the lowered arm. Using a fine needle file, I've increased the cut angle so both legs will go further back, to give a crouched position. The modified figure is ideal for depicting someone drilling or feeding a pipe through a wall.



Perhaps the most complex modification is to replicate a bowled head. Cut almost all the way through the neck and make a wedge - I used a piece of sprue - to push the head forward. Glue into position and leave to dry. Once dry, cut away the sprue and re-shape the neck. Finally, I scraped away the waistcoat chain, which the figure appears to be holding, and substituted it with a small piece of paper.



I converted this Dapol track worker to a signalman many years ago. I used the techniques described here to alter the position of his leading leg. If I were to make this model now, I'd replace the moulded crowbar with a scale signal lever.

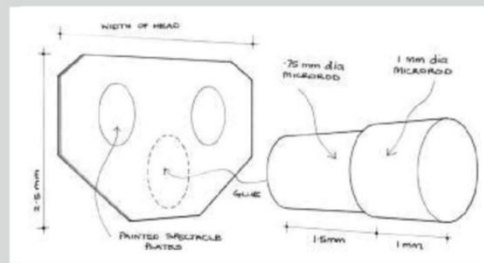


I was intrigued by this wartime image of railway workers wearing gas masks. The diagram illustrates how I used a small piece of very thin plastic sheet to form the mask. I removed some of the facial details (including the nose)

with a file and then glued the mask in place, bending it around the face as the glue softened the plastic. The canister section was made from two pieces of micro-rod.

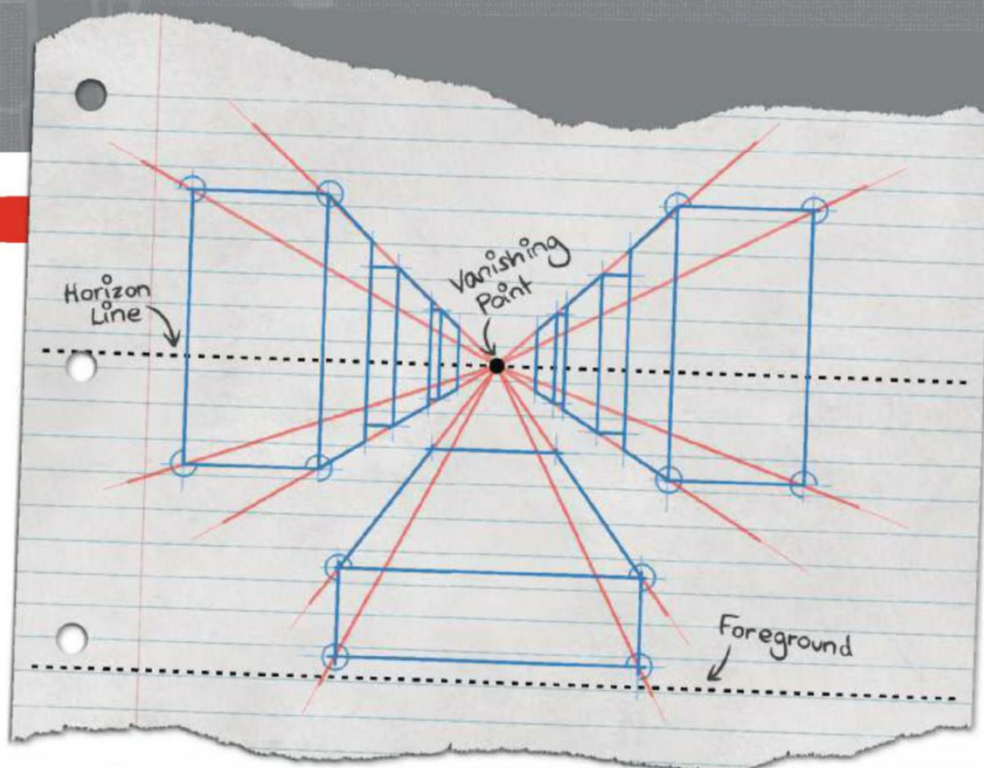
The gas mask bag was made from a fairly flat piece of

sprue from the Dapol Water Tower kit, and I made the straps for the bag and gas mask out of micro-strip. A word of advice for the straps: put a thin coat of glue on the underside to help it bend, then stick it in place.



SMALL... OR FAR AWAY?

I mentioned forced perspective earlier and it's easy to do with 'OO' and 'HO' figures. 'OO' gauge figures go to the front and, with a suitable gap between them, 'HO' figures go towards the rear. Remember, the visual illusion of perspective is that a road, for example, appears to rise up as it goes into the distance and up to the horizon line. Therefore a road, running from the back to the front of the baseboard, should physically rise up a little. Make the angle too steep and it will look like a hill. Too little and the illusion will be lost.



STANDING UP

One of the issues with miniature figures is how to fix them to the layout in a way that doesn't leave any unsightly blobs of glue, or clunky bases. Having used magnets to move buses around a layout (MR221), could I also use magnets to solve this people problem? The main benefit of this method

is that you'll be able to quickly change the location of a figure, or substitute one with another from a completely different period. This is especially useful if your layout depicts two different eras. Most importantly, my magnet method eliminates unsightly bases.

HOW TO DO IT: MAKE FIGURES STICK

1 Treatment of a figure is relatively simple; remove the plastic base, cutting around the shoes so you have over-thick soles. Then trim and sand down to the correct shoe height.



Once done, use a razor saw to cut a groove in the underside of each shoe, big enough to take a small piece of a metal staple. Make sure the groove is the same depth as the thickness of your staple. Glue the staple pieces in place.



You could use magnetic sheet (I used first4magnets' F4MA53M-1) for a platform and then cover it with building paper. Paper weakened the strength of this sheet, but I could tilt it to quite a steep angle before figures fell off.



Alternatively you could use a series of thin block magnets from Spider Magnetics (www.web-magnets.co.uk). I tried one of its small circular neodymium magnets underneath Metcalfe card sheet - not only will the figure stay put - even at 90° - but you can shake it about too!



**RICHARD
FOSTER**
Editor

GEDNEY PART 5

WORK DONE

MR221 Drawn out the trackplan
MR223 Built baseboards
MR228 Install a DCC power bus
MR233 Install decoders

DIFFICULTY



ESTIMATED TIME

30 minutes per model

TOOLS NEEDED

- Cotton buds
- Scalpel
- Paintbrush
- Tweezers
- Cocktail stick
- Masking tape



ANY
GAUGE



HOW TO... RENUMBER

Looking for a change of identity? **RICHARD FOSTER** shows you the right way (and the wrong way) to apply new numbers to your models using decals.

I'd hoped to talk about the locomotives for Gedney at a later stage, as researching my required fleet was a really fun part of the layout planning process. But switching to DCC threw a bit of a spanner in the works.

The reason for going digital, as I explained last issue, was so I could operate my layout as close to the real thing as possible. This not only means running trains into the right sidings or loops, but including the locomotive and coach diagram too.

I was inspired by Chris Evans' 'Run it like a real railway' series from 2009 (was it really that long ago?) in which he studied timetabling and diagramming. I wanted 'Gedney' to look like the real thing, and that means making the train formations and combinations authentic, as well as the landscape. However, as with all aspects of the hobby, it would involve a degree of compromise.

Locomotive variety is also an important factor in choosing

a subject to model. That's why, for example, the Somerset & Dorset Joint Railway is such a popular railway to model. Nowhere else would you find such a blend of ex-LMS, Southern and Western motive power with a healthy smattering of BR Standards.

'Joint' lines, by their very nature, often used a greater variety of motive power, and the Midland & Great Northern Joint Railway was no exception. To achieve the diversity I wanted would involve tweaking history - but, hopefully, not excessively.

MIXED BAG

It's probably fair to say that the M&GN locomotive fleet was not as exciting as that of the S&DJR, at least in latter years. There were no Bulleid 'Pacifics', '7Fs' or '9Fs' thundering across Lincolnshire and Norfolk. No, just a mixed bag of 4-4-0s and 0-6-0s - some Victorian, some slightly newer - with the odd 4-6-0

WHAT'S A WORKING TIMETABLE?

The Working Timetable shows all train movements from passenger and freight trains through to light engine moves, empty coaching stock moves and parcels trains.

and 2-6-0 thrown in for good measure. The problem was that trains that traversed the whole M&GN had to cross bridges with severe weight restrictions.

That wouldn't be a problem if traffic on the M&GN was light. But it wasn't. Holiday specials to Norfolk were as heavy as those to the South Coast, and the region's agriculture provided a key source of freight revenue.

H.G. Ivatt's '4MT' 2-6-0s were ideal for the post-war M&GN. They were powerful enough to pull the trains but light enough to cope with the weight restrictions. Over 50 new '4MTs' were delivered to the M&GN between 1950 and 1952 - key depots being Peterborough New England (35A), South Lynn (31D), Melton Constable



RTR MODELS

(32G) and Yarmouth Beach (32F) - which gave the M&GN arguably the most standardised fleet anywhere on BR.

Great for operating a real railway; less interesting for the modeller.

I've already described what a boon Xpress Publishing's *The District Controller's View No. 12* has been. The working timetable for the line through Gedney revealed an average day would include 13 different diagrams: five covered by Spalding shed, six from South Lynn and two Colwick-South Lynn coal trains in each direction shared by South Lynn and Colwick diagrams.

Of those 13 diagrams, eight were worked by Ivatt '4MTs'. That's not the basis for an interesting layout, is it?

HISTORY TWEAK

I decided to 'tweak' history (see panel 'Choosing the right '4MTs') and inject some variety into the fleet, to emphasise the coming together of LMS and LNER motive power that was typical of the M&GN. But I still ended up with six Ivatt '4MTs' - known as 'Doodlebugs' to M&GN crews.

So why bring this up now? Because, for DCC, I'd need to tell them all apart.

I'd hoped to leave fine detailing and weathering to the end of the build, but each locomotive needed a digital address - and that address is usually based on the running number. As we all know, manufacturers only produce selected numbers, so I had a couple of

'Doodlebugs' with the same number. To differentiate between them, I'd have to re-number them now before fitting and programming decoders.

Just one snag: I've never renumbered anything before...

I've built many Airfix kits over the years, so I'm comfortable applying waterslide decals. The problem was the removal of the printed numbers.

The technique that George swears by - using T-Cut automotive polish - looked straightforward enough, but my biggest concern was that I'd have a polished cabside panel and the rest of the locomotive would be rather dull. Would I have to varnish the whole locomotive?

There was only one thing to do: ignore my worries and get stuck in! 

WHAT'S A DIAGRAM?

In its simplest form, a typical diagram will show the classification and allocated depot of a locomotive or multiple unit (MU), or the formation of a set of coaches, with its working for a complete day.

HOW TO DO IT: APPLY THE DECALS



1 Decant a small amount of T-Cut into a suitable container. You'll also need a good supply of cotton buds. Dip one of them in the T-Cut...



2 ...and start to rub it over the printed numbers. You need to use a surprising amount of force on the numbers, but they will start to disappear.



3 As you rub, the cotton bud gets dirty, so once you've used all the clean areas on the bud, replace it with a fresh one.

HOW TO CORRECT ERRORS

Fox Transfers' cabside number sheets for the Ivatt '4MT' are quite clever. They're offered in a number range with four of the five numerals as one decal. All you have to do is add the final digit, thus minimising alignment. The issue is that you only get one pair of numbers. I ruined a '4308X' decal with my varnish misadventure (see panel) but was able to fudge another number by cutting the '430' from a '43090' decal and using a spare '8' and another '5'.



4 Once the number has disappeared, buff the area with a fresh cotton bud to remove any traces of T-Cut.



5 Follow the same process with the smokebox and shedcode plates. You'll find T-Cut dust gets into the crevices, but it's easily removed with a damp cotton bud.



GETTING IT WRONG

A varnish is a varnish is a varnish, right? Not quite.

It's recommended that you apply a gloss varnish to where the decal is to go first as this creates a better surface for the decal to adhere to. For some reason, I've always omitted this process in my model making and, for the first renumbering, I followed my usual practice. The decal attached itself to the cabside without drama, but it stuck fast and didn't allow any time to tweak its position.

Maybe there was something to this gloss varnish theory. I thought I'd try it on the opposite side - except that I couldn't find the varnish I'd ordered. Never mind, I had some matt varnish, which I was going to use to seal the decals in place. Surely, it would do the job?

No, it didn't. The decal stuck to the matt finish and, when I tried to move it, it curled up and then ripped. Decal ruined.

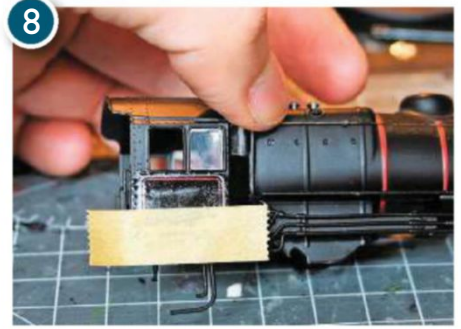
So don't copy what I did and try to cut corners - varnish does matter!



Apply a little gloss varnish to the area that you've just buffed. This will give the new decals a good surface to adhere to.



Cut the decals from the backing sheet with a scalpel. Take your time to prevent accidentally cutting into the decal. Which is what I did...



Use low-tack masking tape to align the new number. The tape I've used is from Tamiya.



Submerge the decal in tepid water and place to one side to allow the decal to lift from the backing paper. Once it's started to lift...



...apply it to the cabside. Hold the backing paper with a pair of tweezers and slide the decal into position using a blunted cocktail stick.



With the number in place, remove the masking tape. Then apply another coat of varnish - in this case matt - to seal the decals in place.

CHOOSING THE RIGHT '4MTs'

I had six Bachmann Ivatt '4MTs' that needed new identities: two 32-585s as No. 43106, two 32-586DC No. 43154s, a 32-577 No. 43160 and a 32-579 No. 43096. Having seemingly avoided '4MTs', which of the 50-odd allocated to the M&GN should I have on my layout?

I could reduce this to four in a stroke. No. 43106, the only Ivatt '4MT' to survive, was a South Lynn locomotive from April 10 1951 until July 8 1956. That covers one of my South Lynn diagrams.

George detailed and weathered one of the No. 43154s back in 2009. Knowing how much I love the M&GN, he kindly gave it to me. No. 43154 was a Melton Constable locomotive, but I decided that it could cover the 'Leicester', the daily Great Yarmouth-Birmingham service that M&GN locomotives worked as far as - yes, you guessed it - Leicester. Melton's No. 43154 has been borrowed by the South Lynn shedmaster to cover this prestigious diagram. The main reason

for choosing it was that I didn't fancy messing about doing a George Dent-style weathering project.

Left to cover were three Spalding diagrams and one South Lynn diagram. South Lynn received 19 new 'Doodlebugs' in 1951, including Nos. 43104-111 (a couple spent a few months at New England first).

I liked the idea of consecutively numbered models, so I went for No. 43106's sister, No. 43105.

Spalding shed was a simple, two-road affair. After nationalisation, it was a sub-shed of Peterborough New England, later being transferred to the care of Boston. Despite its small size, it had to provide cover for eight diagrams and its locomotives reached



Nottingham in the west and King's Lynn in the east.

It's difficult to know exactly which locomotives were allocated to Spalding for use on the M&GN as, officially, they were all allocated to New England. Therefore, I've picked two from photographs to include: No. 43085, which Hugh Ballantyne beautifully captured at Gedney, and No. 43060, 

Above: Back where it belongs: Severn Valley Railway's No. 43106 steams along the North Norfolk Railway towards Weybourne, the only preserved section of the M&GN, on August 22 2011. BEN BOGGIS

which hauled a portion of the last eastbound 'Leicester' on February 28 1959 and the first freight on the day following closure to passenger services, on March 2, to Sutton Bridge. It's a worthy locomotive to model!

The issue is that Fox's BR shedcode decals only contain one plate per sheet (see panel). No. 43060 is to have the 35A New England code. Hugh Ballantyne's photograph showed No. 43085 with a 40F Boston code. Boston took over responsibility for Spalding during the 1950s, and No. 43085 was transferred there on December 29 1957.

So what about the last Spalding diagram? I went for No. 43081, purely because it stayed at New England for the whole of its life (going new there in October 1950 and being withdrawn

RECOMMENDED READING

- *Branch Lines Around Spalding* by Michael Back (Middleton Press).
- *The Book of the Ivatt 4MTs* by Ian Sixsmith (Irwell Press).
- *The District Controller's View No. 12* (Xpress Publishing).

from there on January 3 1965).

In this respect, it was unique. New England was re-coded from February 3 1958 to 34E. The accompanying photograph shows No. 43081 at Spalding in 1953 (when New England was still 35A). There's a very strong possibility that such scenes took place later in the decade, with the locomotive wearing its 34E shedcode.



Left: Ivatt '4MT' No. 43154 passes Hillingdon with the 9.30am Sundays-only Peterborough-Yarmouth Beach on August 30 1958. The M&GN hoped that the Royal Family would use Hillingdon station to get to Sandringham; instead, they preferred to use Wolferton on the Great Eastern branch to Hunstanton. HUGH BALLANTYNE/RAIL PHOTOPRINTS



Left: No. 43060 makes a spirited departure from Leicester with the final Birmingham-Yarmouth on February 28 1959, the day the M&GN closed as a through route. The 'That's yer lot' headboard was handed over to No. 43161 at Spalding, which, suitably graffitied, took the train east. COLOUR-RAIL

Right: No. 43106's classmate No. 43105 rests on South Lynn shed in April 1953. New to South Lynn on March 30 1951, it was transferred to Stratford on March 1 1959, just after the closure of the M&GN as a through route. It remained in East Anglia until 1964, when it was transferred to Carnforth, and it was withdrawn from there in summer 1967.

J.T. CLEWLEY/TRANSPORTTREASURY.CO.UK

Below: New England's No. 43081 rests on the small two-road shed at Spalding with an unidentified classmate and an Ivatt 'J6' 0-6-0. No. 43081 was unique in that it stayed at New England for its entire life. WWW.RAIL-ONLINE.CO.UK

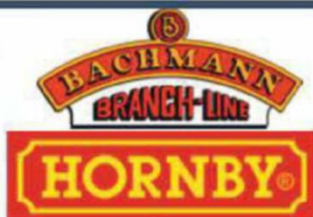


Left: We've published this image before, but it's one of the best photographs of an Ivatt '4MT' at Gedney station. No. 43085 halts at Gedney with the 10.53am Sundays-only Spalding-Hunstanton on August 31 1958. HUGH BALLANTYNE/RAIL PHOTOPRINTS



Olivia's Trains of Sheffield

'OO' Gauge UK DCC
Sound Specialists.



25a Mansfield Rd,
Intake, S12 2AE

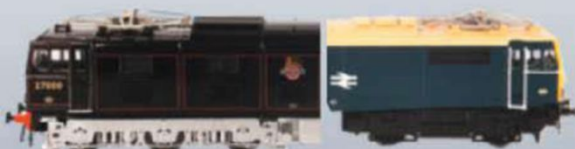
Extensive UK sound library utilising the Loksound decoders.

DCC/ Sound Fitting Whilst You Wait.



Heljan Class 58's Available Now.

Bachmann Class 66 111 Available Now!



Heljan EM2 Class 77 / EM1 Class 76 - Available Now.



Heljan "Falcon" 4 Versions.



Heljan "Kestrel" Available Now.



Dapol Class 73's
Available Now.



Coming 2016 - Class 73 In EW&S, Fragonset & Network Rail.
pre-order now!

For More details on the above & all our stock visit:

www.oliviastrains.com

Tel: 0114 3216 160 Tel: 0114 2647 449 Mob: 0755 7126 651

e-mail: oliviastrains@blueyonder.co.uk



HOW TO... **BUILD AN INCLINE HOUSE DIORAMA**



PETER MARRIOTT takes a fresh angle on narrow gauge modelling, and shows you how to make the grade with a winding house diorama.



MODEL

Bachmann
Scenecraft 44-0049
Incline Winding
House
• Price: £25.95

AVAILABILITY

Bachmann stockists

DIFFICULTY



ESTIMATED TIME

Nine hours

TOOLS NEEDED

- Swann Morton scalpel and fresh blades
- Steel rule
- Self-healing cutting board
- Small paintbrushes
- WWS Pro Grass electrostatic planting tool
- Woodland Scenics Foam Knife
- Woodland Scenics Foam Nails
- DCCconcepts rail cutter

Sometimes a model or an accessory piques your interest, and Bachmann's Scenecraft Incline Winding House (44-0049) certainly grabbed my attention.

What on earth was it? My knowledge of narrow gauge railways is very limited, and I only had a basic understanding of the role that the winding house played.

Conventional adhesion railways can only have fairly shallow inclines. If a gradient is too steep then you have to raise and lower trains using a cable. Trains in and out of Euston were rope-hauled, using a pair of stationary engines, until 1844. The Cromford & High Peak Railway made use of cable incline planes until the 1960s. The Bowes Railway, near Gateshead, is the last standard gauge rope-worked railway in the world.

STEEPED IN HISTORY

But winding houses similar to the one depicted by Bachmann Scenecraft proliferated in the quarries of North Wales. If the slate was up a mountain, the only way to get it down was to

lower it on a cable. I didn't really know much about slate quarry railways, but once I began to dig a little deeper, I was intrigued by the huge inclines that linked different levels (called galleries). Here, little steam locomotives (sometimes horses, people or even overhead electric locomotives) moved loaded wagons to the head of the incline and took empty ones away to be filled with freshly quarried rock.

In some quarries, the incline was cut into the landscape like a conventional railway, just steeper. However, in the larger quarries such as Dinorwic or Penrhyn, the inclines were built on large slate slab embankments.

Browsing images on the internet, I was soon captivated, especially by the images of disused quarry equipment which seems to litter the mountains of North Wales. The arrival of Peco's new '009' slate wagons meant that a small incline diorama was just begging to be built. Inspired by the images of the derelict quarries, I decided to make the diorama as it might look today, with the incline no longer in use and with weeds pushing their way through the compacted slate waste. **MR**

SHOPPING LIST

● Peco SL-400 '009' Single Flexible Track **Price:** £4.20 each; GR-321 2t Slate Wagon three-pack

Price: £29.50; PSG-602 Static Grass 6mm Summer **Price:** £3.50.

Availability: Peco stockists.

● Celotex insulation board (various thicknesses available).

Availability: www.insulationgiant.co.uk

● Woodland Scenics C1218 Stone Gray Terrain Paint **Price:** £5.50.

Availability: Hatton's.

Tel: 01517 333655.

Web: www.hattons.co.uk

● WWScenics Small Seafoam Trees

Price: £9.50. **Availability:**

WWScenics. **Tel:** 01792 815841.

Web: www.war-world.co.uk

● Gaugemaster Static Grass Glue

Price: £6.95; Deluxe Materials AD-78

Fix & Flex **Price:** £8.50; Deluxe

Materials BD-60 Create and Shape

Price: £8.50. **Availability:**

Gaugemaster. **Tel:** 01903 884488.

Web: www.gaugemaster.com

INCLINE INSPIRATION



The National Slate Museum, at the former Dinorwic Quarry, has a short section of restored incline. Wagons are carried side by side on a lifting table, rather than cables being attached to 'runs' of wagons. DOMINIC JONES/ALAMY



One of the disused inclines in the former Dinorwic quarry at Llanberis, built on slate embankments. The inclines linked the different working levels, called galleries. ATGOF.CO/ALAMY



A view of one of Pen-yr-Orsedd quarry's inclines, photographed on October 20 1968, with the winding house at the top. Of interest here is the mixed gauge track; within the quarry a nominal 2ft gauge was used, while the connection to the outside world was via the 3ft 6in gauge Nantlle Railway. KEITH JAGGERS

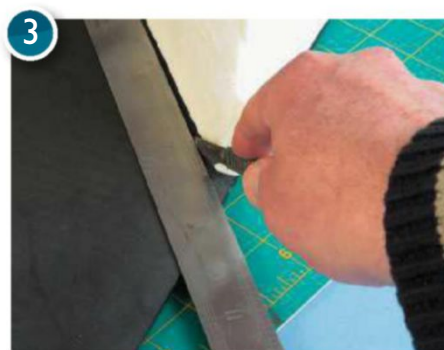
HOW TO DO IT: BUILD AN INCLINE DIORAMA



The Bachmann Scenecraft Incline Winding House (44-0049). As with other Scenecraft resin buildings, it comes ready-painted and weathered.



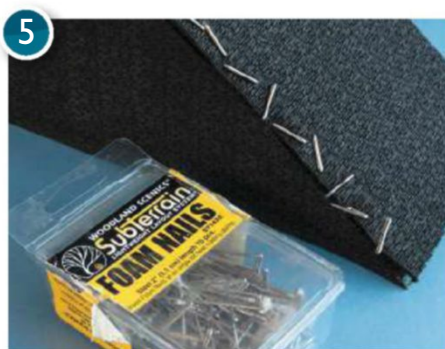
To form the foundation for the incline, I glued two pieces of Celotex roof insulation sheet together using Woodland Scenics Foam Tack Glue, then I shaped them with the foam knife.



I cut the foam slate sheet (from Osborn's Models) using a sharp craft knife with a steel ruler. I used the Celotex to accurately work out the shape of the foam.



The laser-cut foam sheet glued easily to the Celotex using Deluxe Materials' Fix 'n' Flex, a new gap-filling adhesive that's ideal for use with this type of material.



While the adhesive was drying on the slate sheets, I held the sheets in place using Woodland Scenics Foam Nails (T Pins), which are useful for holding things in place temporarily.



I spread some Deluxe Materials Create and Shape around the base of the incline house to remove any unsightly gaps. Wetting it slightly improves its 'spreadability'.

OSBORN'S TO THE RESCUE...

The success of any slate quarry layout will depend on your ability to recreate the distinctive slate quarry surroundings. I wanted to make an incline on a slate embankment, but how on earth could I make it? There's nothing commercially available...

I knew that Osborn's Models of Bideford undertakes commissions for laser-cut items. Could it help?

Osborn's offers a great range of very useful laser-cut accessories and also specialises in bespoke work. I gave them a call, briefed them on what I needed, and shortly after that I received a sheet of self-coloured foam that looked just like a slate embankment. Perfect!

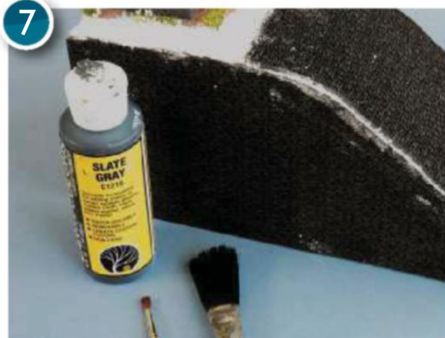
The foam was easy to work with, and it was easy to glue to insulation foam with Deluxe Materials' new Fix 'n' Flex, a clear adhesive. The slate foam easily accepted Woodland Scenics Foam Nails, and took scatters and grasses well too.

Of course, ordering a bespoke product will cost money, and how much you pay will depend on the complexity of what you have specified. However, if you have a modelling problem, and if no-one else can help, it's worth giving Osborn's a call.

Contact: Osborn's Models.

Tel: 01237 423453.

Web: www.osbornsmodels.com



Once the sheets were fixed to the hard foam, and the Create and Shape had dried, I painted the entire diorama using Woodland Scenics Slate Grey Earth Colours.



I cut some lengths of Peco 'OO9' track and fixed them to the slate using Woodland Scenics Scenic Glue. Foam nails hold the track to the base.



I used a little stone ballast to represent loose slate. Although it's a different shape to slate chips, I'll disguise the stone with grasses.



To replicate the colours of a disused quarry, I covered the rails and ballast in brown poster paint. There was no need to clean the rail heads, which made a pleasant change!



To plant the weeds, I used Gaugemaster Static Grass Glue, a WWS Micro Pro Grass electrostatic tool and Peco 6mm Summer Grass.



Peco's 6mm static grass fibres generally come out in fuzzy 'blobs' that need to be broken up before they can be successfully planted on a layout.



Break the 'blobs' up with your fingers. It's only a five-minute job, but your planting will be more successful if you do.



Because I wanted patches of weeds growing through the slate, I dabbed on Gaugemaster Static Grass Glue using a small paintbrush.



The alligator clip on the WWS Micro Pro Grass electrostatic tool was attached to a T Pin so that the electric charge flowed from the device through to the glue to attract the grass fibres.



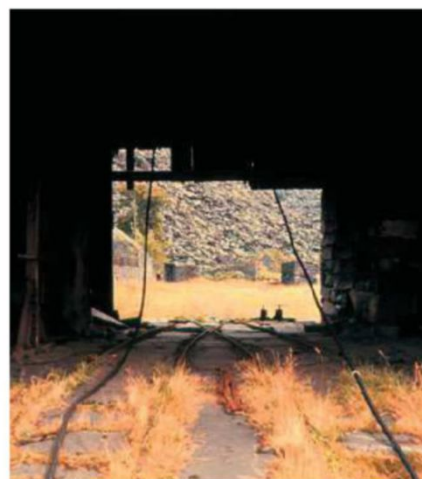
The finishing touch was one of Peco's new Ffestiniog Railway slate wagons. In retrospect, I should have filed the joint where the rails descend the incline.



INCLINE INSPIRATION



A view up to the winding house of Dinorwic's main 'A' incline on June 7 1977. KEITH JAGGERS



Looking through the winding house on Dinorwic's 'A4' incline. The cables were wrapped around a giant wooden drum, which controlled the speed of ascent and descent. KEITH JAGGERS



A view down one of Dinorwic's disused inclines in 1972. North Wales is littered with such remains as it was easier to leave the equipment *in situ*, rather than remove it. Dinorwic closed in 1969 and the former quarry workings are full of abandoned items, such as rails, slate working tools and even wagons. In 1972, the remains of the last locomotive left in the quarry, Hunslet 0-4-OST Alice, were removed. KEITH JAGGERS

BRIXCOMBE

Farnham & District MRC members are aiming for 'P4' perfection across the entire layout as they put the finishing touches to this quintessential GWR branch line. **RICHARD HARRIS** explains why.

Words: MIKE HARRIS





Most layouts feature a centrepiece, an item of model making that really stands out -

a large station terminus, engine shed, or suspension bridge -

'Brixcombe' contains no such thing...

Instead, the Farnham and District Model Railway Club (FDMRC) strives to make every detail of the 16ft by 2ft 6in layout as realistic as possible. Take a look behind the scenes and you'll find a superbly crafted, bespoke control setup that's almost as interesting as the model itself.

'Brixcombe' might not push boundaries or break new ground, but it's a masterclass in finescale modelling, teamwork, and meticulous planning. For a scenic section that's pure railway, and a stunning fleet of finely crafted locomotives, look no further - this is one GWR branch line that demands your attention.

LESS IS MORE

The layout doesn't contain any buildings outside of the railway and, although you're unlikely to notice this straight away, it's an entirely conscious decision. Club member Richard Harris explains why: "Vast open space surrounds many railways, something we wanted to portray with 'Brixcombe'. We were careful not to cram details into every nook and cranny, instead, trying to evoke a sense of openness."

It's clear that the FDMRC have spent much of their time studying prototypical resources and, although 'Brixcombe' is a freelance layout, it's partially inspired by a real Devonshire location - Brixham.

"We decided that Brixham is just ☺"



THE LOCOMOTIVES



'Dean Goods' 0-6-0 No. 2407 (S4 boiler) - Martin Finney kit, with Mashima 10/24 motor and High Level gearbox.



'Buffalo' 0-6-OST No. 1594 - M&L whitmetal kit, with Portescap motor.



'City' 4-4-0 No. 3433 *City of Bath* in 1903 monogram livery - Martin Finney kit with Portescap RG4 motor and gears.

“YOU CAN - WITHIN REASON - DO WHATEVER YOU WANT. ON THE OTHER HAND, WHEN YOU MAKE THINGS UP, THEY *MUST* LOOK RIGHT”



'Aberdare' 2-6-0 No. 2676 - Martin Finney kit with working inside crank shafts. Portescap RG4 motor and gearbox.



'Grange' 4-6-0 No. 6837 *Fordhampton Grange* - Malcolm Mitchell kit, Ultrascaple wheels and Portescap RG4 motor and gearbox.



'Hall' 4-6-0 No. 4906 *Bradfield Hall* - Martin Finney kit with Ultrascaple wheels and Portescap RG4 motor and gearbox.

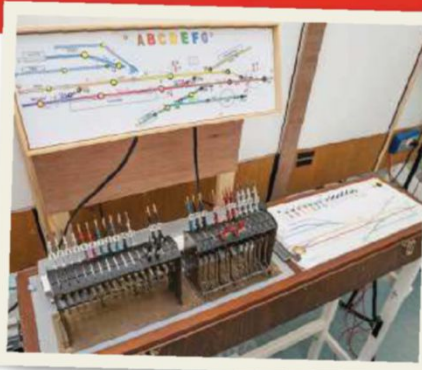
FUN AND FRAMES

There's a lot of interesting stuff behind the layout. The control setup is so impressive it's almost a shame that it's hidden from view...

"The lever frame was bought second-hand. One of our members found it at a swapmeet - the levers actually work," says Richard. "Some layouts use a lever frame that mechanically operates points, but our frame works via hidden switches."

"It is very satisfying for the signaller to operate. You don't just change switches, you actually have to pull miniature signal levers with working locking catches."

The club have also crafted indicator panels to aid both the signalmen and drivers - another fine aesthetic touch. Finally, the driver controls are neatly attached to hook and loop fasteners when not in use.



Red or green lights on the display panel indicate which controller is set to operate each track section.

down the road from where 'Brixcombe' is purported to be," says Richard.

In reality, Brixham station isn't nearly as isolated as 'Brixcombe', with a school and a row of terraced housing situated nearby.

"There are positives and negatives when building a fictitious location," he says. "Obviously you can - within reason - do whatever you want. On the other hand, when you make things up, they *must* look right."

By building a freelance layout inspired by a real location, the FDMRC had the option of falling back



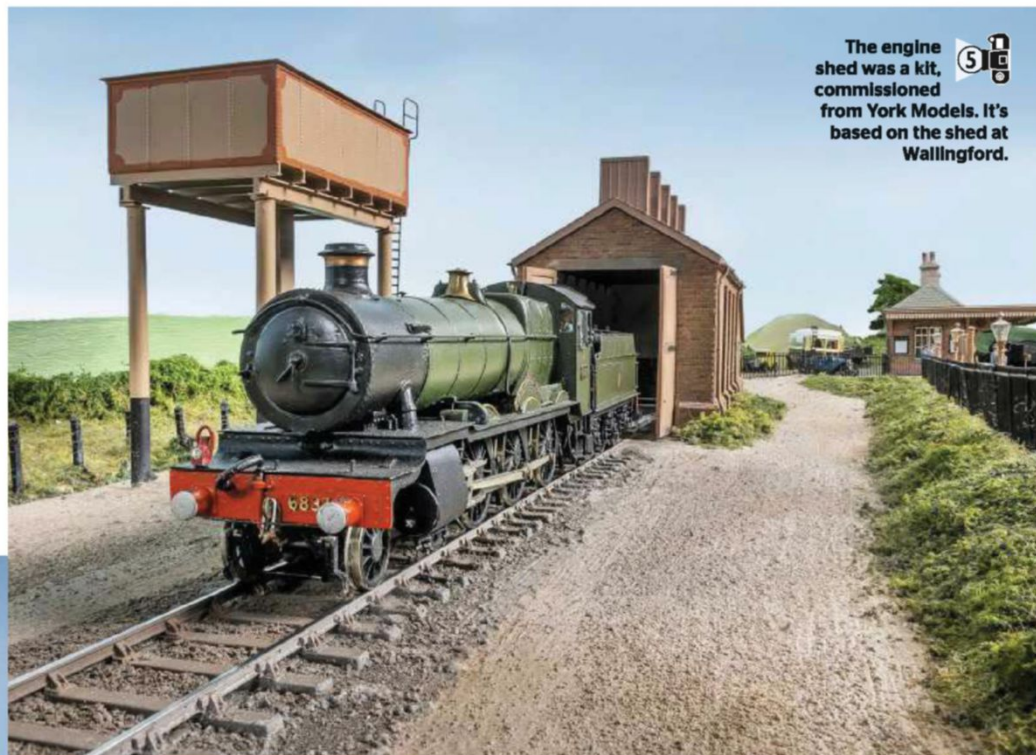
onto the prototype, alleviating the pressure of crafting a realistic landscape entirely from scratch.

REALLY RAILWAY

Part of 'Brixcombe's' charm is that it's unashamedly railway-focused. From the sweeping curvature of the track right down to the tiniest detail, such as a fire devil (which heats the water crane), every effort has been made to fully realise the railway.

Richard says that much of the layout's success is down to the planning: "We would write down exactly what we were going to do" ➡

'Small Prairie'
2-6-2T
No. 2172
- Churchward Models
kit, with Portescap
RG4 motor and gears.



The turntable is scratchbuilt. Pieces of brass were carefully cut to mimic those from a brass kit - rivets and other details were added before assembly.

INSIDE THE BOX

'Brixcombe' has been designed for portability and comprises some very cleverly constructed baseboards. Each side and end is built from two thin pieces of plywood - spaced apart to reduce weight, while maintaining stability. The main surface of the baseboards is plywood, too.

Each board is paired with a lid made from plywood ends, with sides and top made from foamboard. Each lid is therefore light and rigid enough to be stacked, making it easier to transport.



and then research it. The point rodding is a good example, we spoke to Martin Goodall - a GWR expert and modeller who has featured in publications such as *Scalefour News* - to make sure our plan was right."

With different modellers all working on the same layout, how has the club achieved such a consistent level of quality? Richard discusses the merits of having the same goals: "One of the disciplines in finescale modelling is that everyone is working towards the same objective - to make a scale model that's as true to reality as possible."

TO DO LIST

Touring the exhibition circuit has identified a few areas that the club would like to improve. Variations of ballast colour are likely to be implemented in the near future, with the scenery receiving a slight facelift, too. 🔄

VINYL COUNTDOWN

The backscene is hand-painted onto a vinyl surface. Richard notes that the flexible material used on 'Brixcombe' is 1mm thick, and that the club stitched several pieces together to form a 20ft long roll.

The backscene is attached to the layout superstructure using hook and loop fasteners. As Richard says: "It takes two people about two to three minutes to put it up - one to hold the roll and the other to sort the fasteners."



Above: The sense of space is a key observation and mimics the real railway perfectly.

Left: This grounded coach body makes for an excellent cameo; it's an ancient K's tooling of a GWR coach, with plastic card doors and roof.



Left: A GWR 1½-ton Thornycroft van, built from a Keilkraft/Davric kit.



Right: A GWR Thornycroft lorry, built from a plastic Peco kit.



“EVERYONE IS WORKING TOWARDS THE SAME OBJECTIVE - TO MAKE A SCALE MODEL THAT’S AS TRUE TO REALITY AS POSSIBLE”

“We’ve tried to leave the scenery fairly uncluttered,” says Richard. “But there are one or two places where we feel we ought to add a little more detail, such as bits of scrap, wildflowers, and weeds.”

“We’d also like to improve the layout’s operation by replacing the magnetic coupler system with electromagnetic couplers. And operating each coupler at the push of a button will give us more control.”

SIGHTSEEING

‘Brixcombe’ is a layout that seasoned modellers are certain to enjoy. It’s beautiful to look at, crammed with operating potential, and is a showcase of marvellous (and often slightly unusual) kit-built GWR stock.

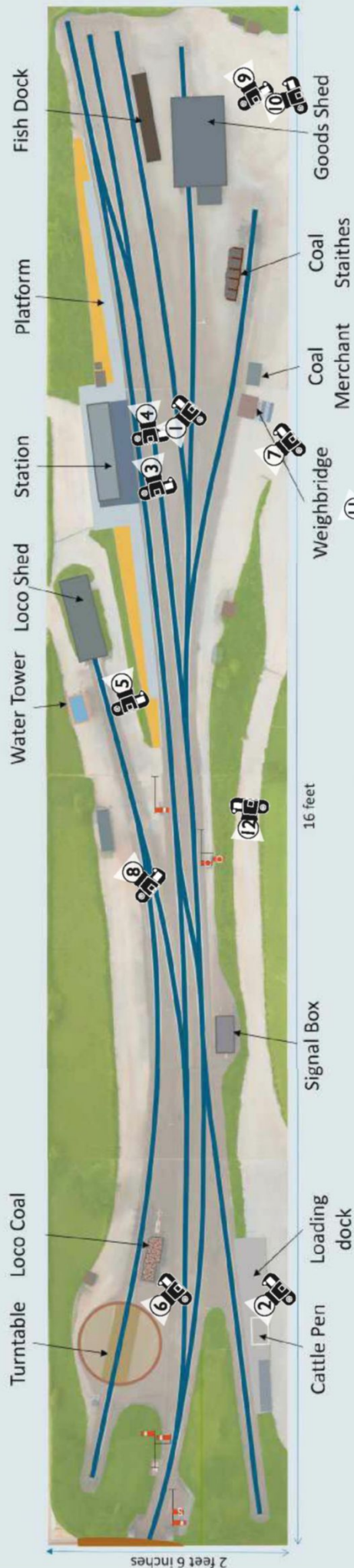
The GWR branch line theme might be tried and tested, but when the execution is this good it still stands out. If you get the chance, make sure you see ‘Brixcombe’ for yourself. And (if you ask *really* nicely) you might just get a peek behind the scenes at that superb control system. 

Above: The station and goods shed were built from laser-cut Timber Tracks kits, painted using RailMatch paints.

Below: Signals are a combination of etched and whitemetal components from Masokits and David Geen. The signal box is an etched brass kit from Churchward Models - finished with Phoenix Precision Paints.



LAYOUT FACTFILE BRIXCOMBE



Gauge & scale: 4mm:1ft, 18.83mm gauge, 'P4'
Time to build: Three to four years

Prototype: Loosely based on Brixham

Size: 16ft by 2ft 6in

Track: Handbuilt (includes slow action turnout motors)

Locomotives: Kit-built and heavily modified RTR

Rolling stock: Kit-built, scratchbuilt, and heavily modified RTR

Signals: Scratchbuilt (servo operated)

Power & control: 12V DC

Buildings: Kit-built and scratchbuilt

Things you might have missed



Show & Tell

This is the place to share your latest layout or project with fellow modellers. Every issue we publish a selection of your best photographs and stories, as well as interesting oddities and, occasionally, modelling disasters.

Trains on the big day

Jill Cubbin, by e-mail

My passion for modelling came from my late granddad; he used to make and sail model boats on Southport marina. He also had some track, nailed to a green baseboard, which he would bring out of the garage for family occasions - it had no scenery or buildings, but I loved it dearly. I have integrated sections of that track into my own layout.

I'm lucky enough to have a whole room dedicated to my hobby, which includes memorabilia, a few of my granddad's old boats and trains, and - of course - my layout. The bulk of the track is 'OO', with a small section dedicated to 'N' gauge.

I started to lay the track six years



ago. It's an unfinished project, but I'm sure there will always be something to add or change. I'm fully aware that a few of the cars are a little anachronistic, and that they might not be prototypical,

but it's my hobby and I love it!

I find that the hours drift by while I'm playing trains - I could even be found in my train room on the morning of my wedding day. Isn't it a bride's prerogative to be a little late, after all?

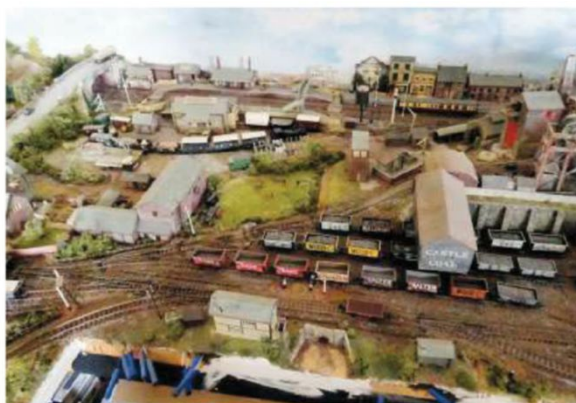
Above: Jill loves being in her train room so much, she couldn't resist playing trains on the morning of her wedding day.

Model landscapes

Alan Freeman, by e-mail

These images were sent in by Alan's wife, Janet, and depict two great layouts. The first is called 'Roshven', as Janet explains: "It was once an alternative site to the rail terminus at Mallaig. It's based on a typical West Highland Line station, with a fishing pontoon, and smoke houses, modelled on those at Grimsby."

The second is based on a fictional Welsh colliery town, complete with a ruined castle (inspired by Criccieth Castle, North Wales). "Alan's forte is landscape," says Janet. "He wouldn't describe his creations as model railways, but rather models of landscapes with trains." A fitting description indeed.



Above: Alan's larger Welsh colliery town layout, which has been weathered with a suitably grimy effect.

Below: The fine micro layout 'Roshven' is based on an unidentified West Highland Line station. The hand-painted backscene is particularly impressive, and portrays the wildly undulating Highland landscape perfectly.



According to Janet, the trawler features details from Grimsby vessels of the 1940-1960 period, but is based on an actual boat built in Aberdeen in 1912. It was at Dunkirk during the Second World War, when it was renamed 'Feasible', and is now registered as an historic vessel.



How to join in

We want to see your projects in *Model Rail*, be they layouts, locomotives or rolling stock, scenery or structures. If you have something you're proud of and would like to share it with your fellow readers, send two to three digital images and a brief description to mike.harris@bauermedia.co.uk. You can also send prints or slides, with a brief description to the editorial address (see top of page). Finally, if you have any failed or stalled projects or models that have gone wrong, why not share them and explain how not to do it?

OFFICIAL HORNBY
COLLECTORS CENTRE

Est 1975

FOR MORE SPECIAL OFFERS AND UP TO THE
MINUTE RELEASES VISIT OUR WEBSITE

TELEPHONE/ORDER
HOTLINE

(0114) 2551436

Open 9:00 am - 5:00 pm
24 Hr Answerphone service for orders



RAILS OF SHEFFIELD

SHOP OPENING HOURS:

9:30 am - 5:00 pm

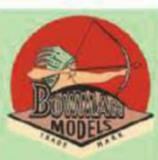
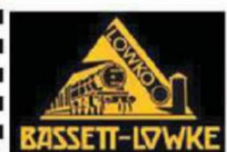
Monday - Saturday

Free parking outside the door!

WANTED

CASH OR PART EXCHANGE

We urgently require collections of any size featuring products from the following manufacturers:



We are always on the lookout for all types of kit built models including Pro-Scale, Nu-Cast, Golden Age Models, Silver Fox Models, Comet Models, David Andrews and Japanese/Korean Brass in addition to all manufacturers above.

Please do contact us if you are at all unsure as to whether we would be interested in your collection.

We value your used models very highly and will pay top prices for all items offered.

We provide a fast, professional and friendly service from our family run business.

Distance is no object and anything is considered.

Please telephone us on 01142 551436, email secondhand@railsosheffield.com, fax us on 01142 555982 or post your lists to the address at the bottom of the page quoting reference RM2013, all enquiries answered.



HOW TO... BUILD A FUNICULAR

Modeller and author **GRAHAM GOODCHILD** puts the fun into funicular with this scratchbuild project.

The funicular railway is an often-overlooked part of Britain's railway network even though there are (no pun intended) some 20-odd up and down the country. The premise is simple: if you have a steep hill or cliff, why not build a railway and haul cars up and down it using a cable, to save legs - both human and animal - from the climb?

There are numerous forms of funicular railway. The Great Orme Tramway and the Cairngorm Mountain Railway are, technically, both funiculars. The classic form is the short cliff railway with two four-wheel cars on parallel tracks. Most are now

electrically powered, except for one of the most famous: the Lynton & Lynmouth Cliff Railway.

It was with remarkable foresight that Victorian engineers built a mode of transport with zero emissions. Water is pumped into the tank of the car at the top. The tank of the opposing car is emptied, so gravity pulls the heavier top car down.

You'd be surprised just how many towns have a funicular railway although the great proportion are located at coastal resorts because of the cliffs. That said, a working funicular railway will provide an interesting focal point on any layout.

The main requirement is that there is

some sort of hill or cliff feature on the landscape to accommodate the inclined track for the funicular carriages to run up and down, and also there should be space for the top and bottom station buildings. Obviously, the scale of the funicular depends on the scale and dimensions of your layout.

Most funiculars are narrow gauge, so I always work to the same standards as traditional narrow gauge modelling: 9mm 'N' gauge track for 'OO', and so forth. My layout is 'N' gauge and there's not a lot of room, so I chose to construct a funicular with just one 2mm:1ft scale car running on 6.5mm 'Z' gauge track. 

To make maintenance easier, the funicular railway is designed to be removable by fastening the railway with small self-tapping screws through the buildings into their bases. On my layout, the base of the lower building is screwed directly into the station platform.

WINCH MECHANISM

The heart of my funicular is a 6V motor with a multi-ratio gearbox from the Hobbies Catalogue (www.alwayshobbies.com).

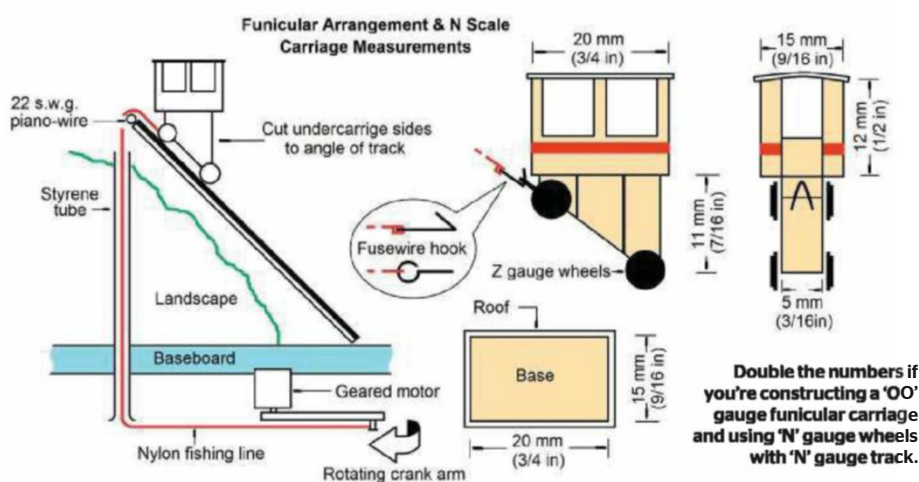
The accompanying diagram shows how the mechanism goes together. Thin plywood or thick balsawood is suitable for the crank, the length of which determines the maximum length of inclined track upon which a tethered car can travel.

The crank arm on mine is 100mm from the centre of the gearbox output shaft and it has a screw on the end, to which I've attached a nylon line. The rotating crank arm will therefore provide a total incline distance of 200mm. Fitting a longer crank will permit a carriage to proportionally travel further along an extended length of track. About two revolutions per minute of the

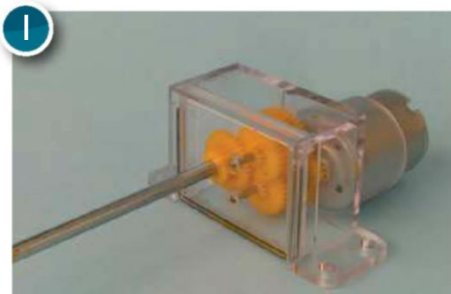
crank arm will give a realistic tethered hauling speed of a funicular carriage, with the geared motor connected to a 3V electrical supply.

Thin nylon fishing line is ideal because it slides easily over relatively tight corners, such as over the top of the track where the line is attached to the carriage. One end of the nylon line is tied to a small plastic pulley which is screwed into the end of the crank arm. Washers are inserted under the pulley to prevent the line from snagging on the crank arm as it rotates.

The nylon line is threaded through a 5mm diameter styrene tube in the baseboard, which emerges through the cliff top where the funicular track is to be located. The bottom end of the styrene tube is flared to assist the nylon line run more freely.



HOW TO DO IT: BUILD THE MECHANISM



The 6V motor with gearbox came from Hobbies (www.alwayshobbies.com). The gearbox comes pre-assembled, but the ratio can be easily changed by removing one or more intermediate gears.



With the position of the funicular winch mechanism marked on the underside of the layout baseboard, a hole is cut out to accommodate the winch motor.

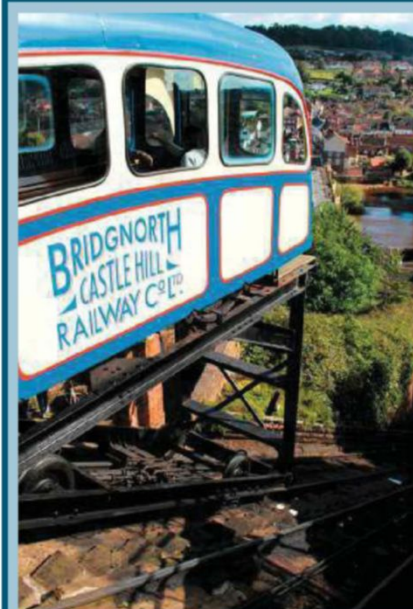


To flare out the end of the tube, heat the metal tip of a screwdriver (over a candle, lighter or, if you're very careful, on the gas ring on the hob) and press it into the styrene tube.



The motor and gearbox is mounted onto a balsa wood bracket. It's screwed into a recess in the rigid foam baseboard using coarse-threaded self-tapping screws with PVA on the thread. Note the flared end of the tube, bottom right.

FUNICULAR INSPIRATION



George Croydon Marks and Sir George Newnes pioneered the water balance funicular railway and the 200ft cliff that separates Bridgnorth High Town from Low Town meant that the Shropshire town was an ideal candidate for the form of transport. It opened in 1891 and has been much-modified. The aluminium cars, as their style would suggest, date from the 1950s; electricity was installed in 1944 and bullhead track was a 1970s innovation.

LUCY THOMAS/ALAMY



The Aberystwyth Cliff Railway is a 4ft 8½in gauge railway that opened in 1896. The 778ft line connects the top and bottom of Constitution Hill, to the north of the town, which offers spectacular views of the Welsh coast. Originally a water-balance funicular, it's been powered by electricity since 1921.

DAVID NEWHAM/ALAMY



The work of Isambard Kingdom Brunel dominates Bristol's Avon Gorge, but one of its hidden gems is the Clifton Rocks Railway. This underground railway has four parallel tracks. It was another George Croydon Marks/Sir George Newnes funicular project and although it opened to much fanfare in 1893, it closed in 1934. The tunnels were used by the BBC until 1960, and now a preservation group aims to restore it to working order.

RICHARD NAUDE/ALAMY

THE CAR

The car is a freelance design, inspired by some of the smaller prototypical funicular railways. The base is 1mm thick styrene sheet and the four sides are made from clear polyester sheet to a similar thickness. Strips of paper-thin styrene were glued to the clear plastic to form the body panels and window frames.

The undercarriage box that supports the 'Z' gauge wheels was also made from 1mm styrene. The bottom of the undercarriage box should follow the same angle as your inclined trackbed.

Slots are required in the bottom of the undercarriage sides to accommodate the two 'Z' gauge wheels. The axles are retained by cutting and gluing styrene sheet along the bottom and side edges of the undercarriage sides to form a box. Thin piano wire is cut and bent to form the hook attachment for the nylon winch line and the hook attachment glued to the bottom of the undercarriage using cyanoacrylate. I inserted a small nut to provide stability to the carriage and allow it to freewheel down the track.

A 3D-printed 'N' gauge scale passenger figure is glued to a false floor, cut from styrene sheet and glued inside the carriage. Finally, I cut and curved the carriage roof from styrene sheet and glued it to the top of the carriage sides, together with styrene webbing supports on each side of the undercarriage to replicate the webbing supports of a real funicular car.

TOOLS NEEDED

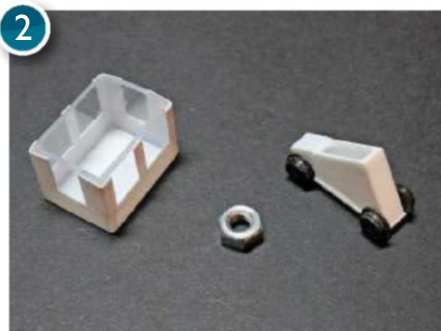
- White, opaque styrene sheet
- Clear styrene sheet
- Steel rule
- Craft knife and fresh blades
- Brush-applied styrene glue



HOW TO DO IT: BUILD THE CAR



The car body, which also forms the windows, is cut and glued together from clear styrene sheet, and strips of paper-thin white styrene glued over the top to form the body panels around the windows.



Styrene sheet is cut and glued together to form the box-shaped undercarriage which houses the two 'Z' gauge wheelsets. I cut an opening in the top of the undercarriage and placed a metal nut inside to add weight and increase stability.



A bent piece of thin piano wire, glued to the underside of the undercarriage, forms a loop where the hook and line will attach. The figure is glued onto a false floor and inserted inside the carriage prior to gluing on the roof.

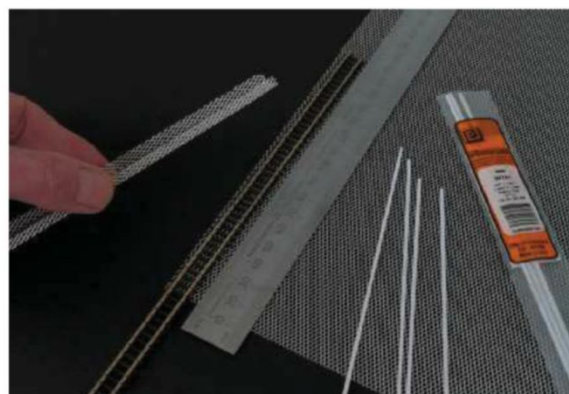
THE TRACK

The length of my incline was just a bit longer than a single standard 220mm length of 'Z' gauge sectional track (www.modelrailshop.co.uk/product/15501/Straight_Track_length_220mm) so I made some extension pieces from styrene.

The track was glued onto wire mesh to replicate a girder effect. The mesh is the stuff used to repair car bodies (available from Halfords). Balsa wood attached to the underside provides strength and support, while the longitudinal girders, cut from styrene strip, are glued to the sides.

The supporting pillar for the track is constructed from sheet balsa and is covered with glued-on stone print card. The top of the pillar is glued to the underside of the track bed. Foam landscaping foliage is glued to the landscape to disguise the gap at the bottom of the pillar between the ground and the cliff face.

The track bed is cut and bent from aluminium mesh with the aid of a steel rule to form the folded sides. Styrene strip is used to make the longitudinal girders which are glued to the sides of the track bed.



BUILDINGS

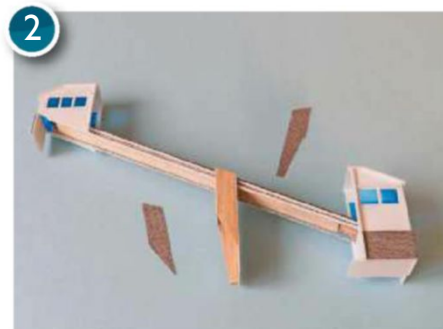
The top and bottom buildings are constructed with the carriage placed on the track. This ensures adequate clearance between the building sides and the carriage. The shapes of the buildings are first sketched onto thin card, which is used as a template with the car *in situ* and the template used as a guide for cutting out the building sides from 1mm (0.40in) styrene sheet. I used blue-tinted acetate sheet for the windows, although clear acetate works just as well. The windows are glued to the inside of the buildings prior to the roofs being glued on.

Roof guttering is made from black styrene rod on which the upper side has been ground flat using coarse glass paper. These are then glued along the lower edges of the roofs. The down pipes are cut and bent to shape from black styrene rod and are glued to one corner of each of the buildings.

HOW TO DO IT: CREATE THE BUILDINGS



Construct both buildings by transferring a card template onto 1mm styrene sheet. Build both stations with the car *in situ* to ensure that it will fit properly.



The building sides are glued to the sides of the track bed, which may require strips of styrene glued in between to prevent the building sides from obstructing the car.

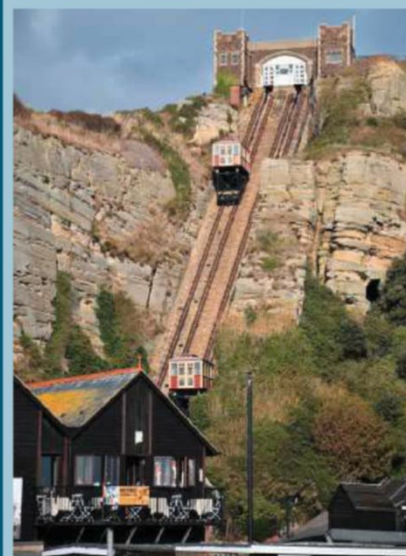


Balsawood is used to strengthen the underside of the track bed and to construct the support pillar. Metcalfe stone effect printed card is glued to the pillar sides, and around parts of the buildings.

FUNICULAR INSPIRATION



The Lynton & Lynmouth Cliff Railway is still powered by water, just as it was when it opened in 1890. The two 3ft 9in gauge cars traverse the 862ft track that links the twin North Devon towns. DBPHOTS/ALAMY



Hastings has not one but two funicular cliff railways. This is the East Hill Cliff Railway, which is 5ft gauge and 267ft long, and opened in 1903. The West Hill Cliff Railway is older (1889) and longer (500ft) and mainly runs through a tunnel. Both are now electrically powered. JOHN BIRDSALL/ALAMY

TESTING, TESTING...

To test the funicular system, make a small hook from household fuse wire and tie the nylon to it. This clips to the piano wire coupling on the car. Use Blu-Tack to temporarily support each end of the track, and the geared motor wired, via a switch, to

a 3V to 6V power supply. You may need to make several adjustments to the length of the nylon line so that the carriage travels the correct distance without falling off the end of the track.

HOW TO DO IT: TEST THE SYSTEM



This view shows the temporary track standing on the layout. Here, the carriage is attached to the nylon line and tested with the motorised crank arm connected to the power. Note the rail extension at the lower end of the track.



Construct a permanent base for the track. The cliff top building is constructed from balsawood, rigid foam and filler. Piano wire is glued across the end of the track to reduce friction on the nylon line. Fuse wire is used to form the hook.



The funicular is fastened to the layout with small screws, as shown here on the lower building.

PAINTING AND DETAILING



I used acrylic paint throughout. I lightly dry-brushed the mesh and the girders with brown, while the sleepers were dry-brushed with grey to provide a weathered effect. As with other parts of the layout, I painted the rail sides with a rust colour and cleaned the rail heads to prevent excess paint from affecting performance.

I replicated oily patches on the sleepers by smudging them with pencil graphite, using my fingers.

Building interiors are grey, as are the roofs, which were weathered with a light coat of white acrylic. Externally, the building walls are buff coloured with stone printed card glued around the base. I used

the smudged pencil graphite effect again to give the walls a dirty, grimy effect.

The car chassis is grey, as is the roof vent. The roof is brown and the body is gold. Self-adhesive red vinyl lining, from Hobbies, was applied and the window frames were picked out with a fine-tipped black marker pen.



Above: Steps leading up to the cliff top building are formed by layering and gluing overlapping pieces of styrene sheet. The path is made out of Metcalfe paving effect card.

Left: Guttering and downpipes on the buildings are made from styrene rod, while dirt and grime on the walls is replicated with smudged pencil marks. Posters on the wall are from the Tiny Signs range marketed by Gaugemaster. Planting a few scenic trees on the landscape will soften the impact of the cliff top building.

READ ALL ABOUT IT

If you want to find out more about the construction of this funicular railway, check out Graham's new book, *Building a Folding Model Railway Layout - a Comprehensive Guide*. Published by Crowood Press, it's available from all good bookshops, or direct from www.crowood.com

Kernow Model Rail Centre

Visit www.kernowmodelrailcentre.com or call our team on 01209 714099

UK POSTAGE & PACKING = £4 PER ORDER. ORDERS OVER £150 = POST FREE

FOR OUR FULL RANGE VISIT WWW.KERNOWMODELRAILCENTRE.COM

LOOK OUT FOR THE BARGAIN PRICES HIGHLIGHTED IN YELLOW!

KMRC LIMITED EDITIONS IN STOCK HIGHLIGHTED IN BLACK!

BACHMANN OO STEAM LOCOMOTIVES

31-003A Robinson Class 04 No. 6184 LNER Black	£110.95
31-004A Robinson Class 04 No. 63762 BR Black weathered	£118.99
31-005 3000 East Class No. 9029 BR E/E	£118.99
31-008 3200 East Class No. 9029 BR E/E	£118.99
31-119 BR Standard Class 4 No. 75035 Lined Black LC w/whtr	£135.95
31-128 3000 Road 2-4-0 No. 3036 BR Black E/E	£121.95
31-130 Class D11/2 No. 62682 'Hayston of Buckwal' BR E/E	£106.99
31-167 LAYR 2-4-2 No. 50795 BR Lined Black E/E	£79.99
31-168 LAYR 2-4-2 Tank No. 10713 LMS C'mon	£93.95
31-169 LAYR 2-4-2 Tank No. 50705 BR Lined Black E/E	£93.95
31-170 LAYR 2-4-2 Tank No. 50764 BR Black B.T.I.S.H. RAILWAYS	£93.95
31-188 Jubilee No. 45565 'Victoria' BR Green LC weathered	£139.99
31-204 Patriot Class No. 5330 'Sir Frank Row' LMS	£140.95
31-214 Patriot Class No. 45536 'Glosswicks' BR E/E	£140.95
31-318A Robinson Class J11 (GCR SJ) No. 5954 LNER	NEW £127.95
31-433 Midland Class 1F No. 1739 LMS Black Open Cab	£81.95
31-434 Midland Class 1F No. 41 825 BRITISH RAILWAYS	£81.95
31-435 Midland Class 1F No. 41 825 BRITISH RAILWAYS	£81.95
31-440 VAS Steam Tank No. 2124 Southern Railway Black E/E	£106.95
31-461A C Class 0-6-0 No. 1294 Southern Railway Black E/E	£106.95
31-462A C Class 0-6-0 No. 31227 BR Black E/E	£106.95
31-480 G2A No. 9376 LMS Black with ender Black Cab	£101.95
31-481 G2A No. 49108 BR Black E/E	£101.95
31-528A G2 No. 60529 'Pearl Diver' BR Green LC	£144.95
31-529 G2 No. 60534 'Tril' BR Lined Black E/E	£144.95
31-531 Class 4 No. 60536 'Timbush' BR Green E/E	£144.95
31-614 VAS Steam Tank No. 57469 BR Lined Black LC	£101.95
31-615 VAS Steam Tank No. 67860 BR Lined Black E/E	£101.95
31-627B Class 3F No. 3520 LMS Black w/Dewey Tender	£297.99
31-635A Class 64x0 0-6-0 Pannier Tank 6424 GWR Green	£81.95
31-635B Class 64x0 0-6-0 Pannier Tank 6422 BR Black E/E	£81.95
31-636 Class 64x0 0-6-0 Pannier Tank 6419 BR Green	£80.95
31-637 Class 64x0 0-6-0 Pannier Tank 6418 BR Green	£80.95
31-681 LMS Stanier Mogul No. 42969 BR Lined Black E/E	NEW £135.99
31-728 GWR 3700 Class 7005 'Kilnham' Great Western Green	£118.95
31-782 Modified Hall No. 6965 'Thirlestaine Hall' BR/LC weathered	£114.95
31-783 Modified Hall No. 7904 'Fountains Hall' BR E/E weathered	£114.95
31-883 Midland Class 4F No. 3848 Midland Black Crest Tender	£97.95
31-884 Midland Class 4F No. 44044 BR Lined Black LC	£106.95
31-885 Midland Class 4F No. 44045 BR Lined Black LC	£106.95
31-886 Midland Class 4F No. 44046 BR Lined Black LC	£106.95
31-887 Midland Class 4F No. 44047 BR Lined Black LC	£106.95
31-888 Midland Class 4F No. 44048 BR Lined Black LC	£106.95
31-889 Midland Class 4F No. 44049 BR Lined Black LC	£106.95
31-890 Standard Class 3MT No. 82020 BR Green	£110.95
31-891 Standard Class 3MT No. 82021 BR Lined Black E/E	£110.95
31-892 Standard Class 3MT No. 82022 BR Lined Black E/E	£110.95
31-893 Standard Class 3MT No. 82023 BR Lined Black E/E	£110.95
31-894 Standard Class 3MT No. 82024 BR Lined Black E/E	£110.95
31-895 Standard Class 3MT No. 82025 BR Lined Black E/E	£110.95
31-896 Standard Class 3MT No. 82026 BR Lined Black E/E	£110.95
31-897 Standard Class 3MT No. 82027 BR Lined Black E/E	£110.95
31-898 Standard Class 3MT No. 82028 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82029 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82030 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82031 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82032 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82033 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82034 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82035 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82036 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82037 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82038 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82039 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82040 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82041 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82042 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82043 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82044 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82045 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82046 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82047 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82048 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82049 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82050 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82051 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82052 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82053 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82054 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82055 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82056 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82057 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82058 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82059 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82060 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82061 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82062 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82063 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82064 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82065 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82066 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82067 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82068 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82069 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82070 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82071 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82072 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82073 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82074 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82075 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82076 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82077 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82078 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82079 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82080 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82081 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82082 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82083 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82084 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82085 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82086 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82087 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82088 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82089 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82090 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82091 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82092 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82093 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82094 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82095 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82096 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82097 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82098 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82099 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82100 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82101 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82102 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82103 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82104 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82105 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82106 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82107 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82108 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82109 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82110 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82111 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82112 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82113 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82114 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82115 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82116 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82117 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82118 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82119 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82120 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82121 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82122 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82123 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82124 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82125 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82126 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82127 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82128 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82129 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82130 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82131 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82132 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82133 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82134 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82135 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82136 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82137 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82138 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82139 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82140 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82141 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82142 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82143 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82144 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82145 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82146 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82147 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82148 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82149 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82150 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82151 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82152 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82153 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82154 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82155 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82156 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82157 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82158 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82159 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82160 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82161 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82162 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82163 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82164 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82165 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82166 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82167 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82168 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82169 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82170 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82171 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82172 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82173 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82174 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82175 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82176 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82177 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82178 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82179 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82180 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82181 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82182 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82183 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82184 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82185 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82186 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82187 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82188 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82189 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82190 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82191 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82192 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82193 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82194 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82195 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82196 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82197 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82198 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82199 BR Lined Black E/E	£110.95
31-899 Standard Class 3MT No. 82200 BR Lined Black E/E	£110.95

BACHMANN OO DIESEL LOCOMOTIVES & MULTIPLE UNITS

30-123 Military Manoeuvres Train Set	£509.99
30-130 Midland Pullman Train Pack	£509.99
31-236X Class 205 2-H Thunder Unit No. 1121	£199.99
31-236Y Class 205 2-H Thunder Unit No. 1122	£199.99
31-236Z Class 205 2-H Thunder Unit No. 205 001	£199.99
31-650L Class 47 Diesel Loco No. D1670 'Mammoth' BR Two Tone Green	£149.99
31-650U Class 47 Diesel Loco No. 47 829 Police DCC Fitted	£149.99
31-651Z Class 47 Diesel Loco No. 47 829 Police DCC Fitted	£149.99
31-652 Class 47 No. 47 576 'Glyn' Kings Lynn Network SouthEast	£114.95
31-653 Class 47 No. 47 576 'Glyn' Kings Lynn Network SouthEast	£114.95
31-654 Class 47 No. 47 576 'Glyn' Kings Lynn Network SouthEast	£114.95
31-655 Class 47 No. 47 576 'Glyn' Kings Lynn Network SouthEast	£114.95
31-656 Class 47 No. 47 576 'Glyn' Kings Lynn Network SouthEast	£114.95
31-657 Class 47 No. 47 576 'Glyn' Kings Lynn Network SouthEast	£114.95
31-658 Class 47 No. 47 576 'Glyn' Kings Lynn Network SouthEast	£114.95
31-659 Class 47 No. 47 576 'Glyn' Kings Lynn Network SouthEast	£114.95
31-660 Class 47 No. 47 576 'Glyn' Kings Lynn Network SouthEast	£114.95
31-995 LMS Prototype No. 10000 BR Brunswick Green	£397.99
32-034A Class 20 No. 20 141 BR Green weathered	£97.95
32-044 Class 20 No. 20 D8028 BR Green windicator Discs	£93.95
32-045 Class 20 No. 20 118 Salisbury by the Sea BR Red	£93.95
32-065 Class 43 Warship No. D865 Zanzibar BR Maroon	£118.95
32-066Z Class 43 Warship No. D845 'Sprightly' BR Green	£164.95
32-067 Class 43 Warship 642 'Royal Oak' BR Blue	£118.95
32-068 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-069 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-070 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-071 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-072 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-073 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-074 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-075 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-076 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-077 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-078 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-079 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-080 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-081 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-082 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-083 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-084 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-085 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-086 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-087 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-088 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-089 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-090 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-091 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-092 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-093 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-094 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-095 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-096 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-097 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-098 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-099 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-100 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-101 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-102 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-103 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-104 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-105 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-106 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-107 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-108 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-109 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-110 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-111 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-112 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-113 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-114 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-115 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-116 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-117 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-118 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-119 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-120 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-121 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-122 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-123 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-124 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-125 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-126 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-127 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-128 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-129 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-130 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-131 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-132 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-133 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-134 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-135 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-136 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-137 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-138 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-139 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-140 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-141 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-142 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-143 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-144 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-145 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-146 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-147 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-148 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-149 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-150 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-151 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-152 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-153 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-154 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-155 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-156 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-157 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-158 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-159 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-160 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-161 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-162 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-163 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-164 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-165 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-166 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-167 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-168 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-169 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-170 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-171 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-172 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-173 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-174 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-175 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-176 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-177 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-178 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-179 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-180 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-181 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-182 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-183 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-184 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-185 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-186 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-187 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-188 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-189 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-190 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-191 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-192 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-193 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-194 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-195 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-196 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-197 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-198 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-199 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-200 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-201 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-202 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-203 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-204 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-205 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-206 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-207 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-208 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-209 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-210 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-211 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-212 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-213 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-214 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-215 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-216 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-217 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-218 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-219 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-220 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-221 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-222 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-223 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-224 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-225 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-226 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-227 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-228 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-229 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-230 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-231 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-232 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-233 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-234 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-235 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-236 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-237 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-238 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-239 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-240 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-241 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-242 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-243 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-244 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-245 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-246 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-247 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-248 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-249 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-250 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-251 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-252 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-253 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-254 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-255 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-256 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-257 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-258 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-259 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-260 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-261 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-262 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-263 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-264 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-265 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-266 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-267 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-268 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-269 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-270 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-271 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-272 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-273 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-274 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-275 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-276 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-277 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-278 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-279 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-280 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-281 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-282 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-283 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-284 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-285 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-286 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-287 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-288 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-289 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-290 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-291 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-292 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-293 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-294 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-295 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-296 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-297 Class 43 Warship 642 'E31' 'Eag' Network SouthEast	£118.95
32-2	

HOW TO... **MAKE A SHIP-FROM A £10 PLANTER!**



PAUL A. LUNN has a view to a keel as he converts a cheap plant pot into a 'OO' gauge ocean-going ship.

It was while I worked on last issue's layout design, inspired by Liverpool's docks and the Overhead Railway, that I realised just what a shortage of good-sized scale ships there are in 'OO' gauge.

I needed at least one big ship for both plans, but despite extensive searching, I found nothing. Scratchbuilding could be problematic, given the complex shape of the bow and stern sections.

The answer came from an unexpected but somewhat familiar source

- a garden plant pot. I used this inexpensive, everyday item when I wanted to make a power station cooling tower (MR226). Could it also be the answer to my 'OO' gauge scale ship issue?

I found this Stewart Terracotta Trough planter for less than a tanner at my local garden centre. Size-wise, it looked about right, but there are clearly some shape issues. Would I be able to turn it into a ship? I retired to my garage to find out! **MR**



Above: This inexpensive planter has a couple of ridges near the bottom, but is otherwise undecorated on the sides and ideal for the purpose.

SHIP SIZE

It's easy to underestimate the size of an ocean-going ship. Southampton, London, Liverpool, Bristol; all were home to these behemoths of the seas.

If you think my planter ship looks too big, consider this: *Queen Elizabeth 2*, one of the most famous liners of all time, is 963ft long and 171ft high. That's roughly the same as 13 Class 40s parked end to end and stacked 13 high!



Left: By the time this card was posted, on July 13 1912, the port's future was already threatened by the success of Southampton Docks, the Manchester Ship Canal and services available at Hull.

Photography: PAUL A. LUNN



HOW TO DO IT: TURN A PLANTER INTO A SHIP



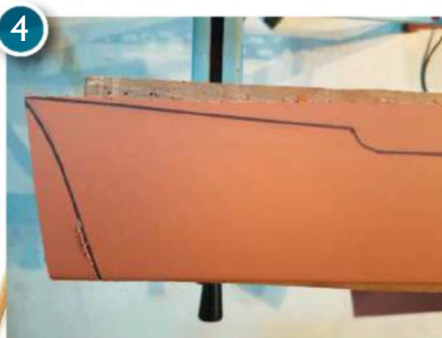
Start by removing the top rim, or lip. I used the excellent Bahco PrizeCut saw, which is specifically designed to cut plastic.



Then remove the base, just where the indents starts. Support it well and saw gently so you don't crack the polypropylene.



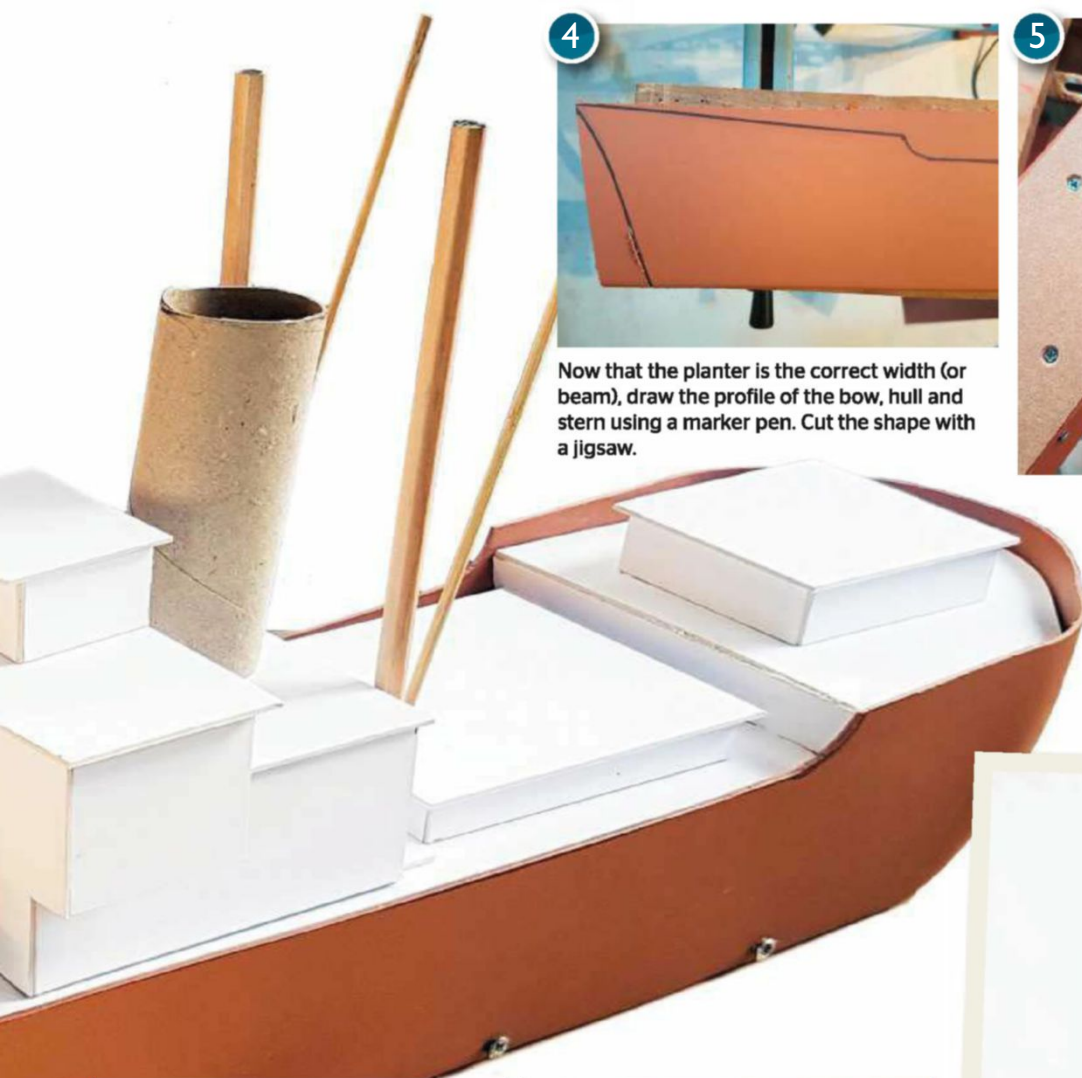
Secure the planter body (I found a Black and Decker Workmate to be ideal) and heat it with a hairdryer. Keep the dryer moving to apply heat evenly. Hold it in the Workmate while the plastic cools.



Now that the planter is the correct width (or beam), draw the profile of the bow, hull and stern using a marker pen. Cut the shape with a jigsaw.



Cut a base in the shape of a ship. Screw the plastic to the wood but don't fully drive the screws home - the sides will need to slope outwards. Don't worry about appearance - the ship will be buried in 'sea', above screw level.



Greater Manchester had quite a large locomotive manufacturing industry. Beyer Peacock built a batch of Garratt 4-8-2+2-8-4Ts for the Luanda Railway in Angola in 1949. One of the Garratt's power bogies is hoisted aboard a ship at Liverpool, ready for its journey to Africa. SSPL/GETTY IMAGES



These superstructure mock-ups show some alternative configurations.



6



Use Mr Sticky's two-part Poly-Bonder glue from www.repairingproducts.co.uk to glue the bow. Formulated for polypropylene, it can be used as a filler. Leave for a few days to cure and then sand away any excess.

7



Make six packing pieces from MDF, cut to a curved hull profile. Screw them to the base from the underside. Use bits of plastic to keep the hull edge straight. A length of elastic is ideal for holding the bow together as the glue cures.

8

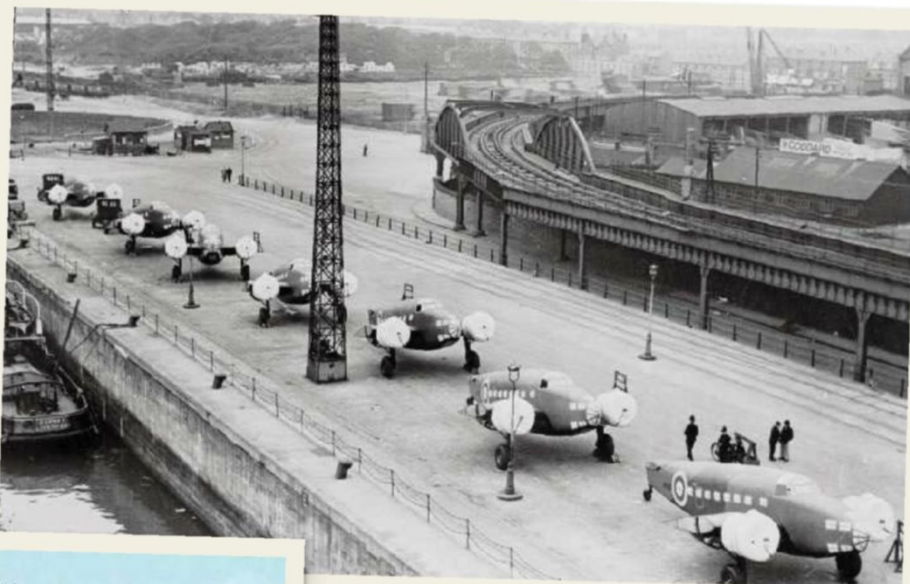


Make deck sections from card using templates by tracing round the upturned hull. Reduce to accommodate thickness of the ship's sides and width, as it reduces between ship walls, lower down, at the top of the MDF packers.

9



I set out to prove that the planter ship concept worked, so the only detail I've included is a superstructure mock-up, crane rigs (pencils and skewers) and a funnel (toilet roll tube). It's still not true to scale, but pretty good for less than £10!

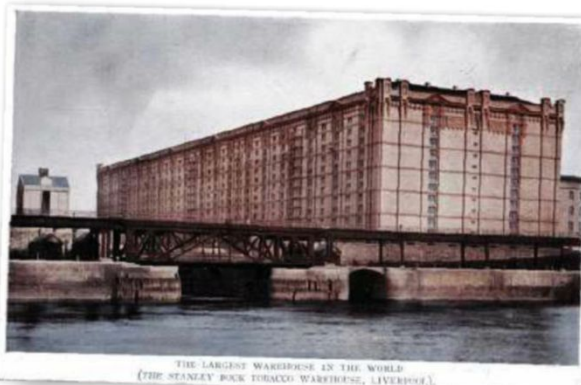


Above: Cotton, timber, corn, wool and grain traffic all passed through Liverpool's docks, but in the late 1930s a new 'product' was handled there. As war with Germany loomed, and in an effort to modernise its fleet, the RAF ordered new aircraft from the United States. Lockheed Hudsons stand on Liverpool's dockside in 1939, ready for assembly. After the war started, they were flown to the UK via Canada. The Liverpool Overhead Railway is in the background. GETTY

Left: The Liverpool and Manchester Railway laid the first tracks to King's Dock in 1833. It was extended in 1835, and had reached its maximum length by the 1840s. Gladstone No. 2 dock was the last to be built and was home to Cunard ships. It would have been an impressive scene when viewed from passing Overhead Railway stock, on the track at the bottom left of the image. The railway track was massively expanded prior to the Second World War, and during its early years.



Gladstone Dock (2), Seaforth.



THE LARGEST WAREHOUSE IN THE WORLD
(THE STANLEY DOCK TOBACCO WAREHOUSE, LIVERPOOL).

INSPIRATION: LIVERPOOL DOCKS

Space constraints in the last issue meant that we couldn't go into much detail about Liverpool's extensive and hugely interesting dock network. The borough of Liverpool was founded in 1207, but it was the increase in trans-Atlantic trade and the silting of the nearby River Dee that turned it into the northwest's premier port.

The first wet dock was built in 1715 and, by the Victorian era, Liverpool had been dubbed the 'New York of Europe'. Until the 1950s and 1960s, Liverpool was a bustling and important port, and while the amount of seaborne freight handled there has dwindled, there's still plenty of maritime activity with cross-river ferries, services to the Isle of Man and ocean liners.

WHAT NEXT?

The lifting/swing bridge, centre left, gave access to the Stanley Dock Tobacco Warehouse and beyond to the Leeds and Liverpool canal. See 'Dabbling with Dapol - Part 2' overleaf for an inexpensive way to model a dockside swing bridge.

DISCOUNT 'O' GAUGE

TOWER BRASS LOCOMOTIVES

R.T.R in unpainted brass/factory painted	
GWR/BR King.....	£900.00
GWR/BR Railcar 19-33.....	£550.00
GWR/BR Parcels Railcar No.34.....	£550.00
GWR 1361 Early black chassis.....	£525.00
GWR/BR 1361 Late black chassis.....	£525.00
LJ/LMS/BR Pug black.....	£450.00
LNER/BR J39 0-6-0 black.....	£925.00
GWR/BR 8750 Pannier black chassis.....	£525.00

TOWER BRASS COACHES

Fully assembled in unpainted brass	
GWR/BR Collett D127 brake 3rd.....	£235.00
FULLY FINISHED R-T-R LOCOS	
L&Y/LMS/BR Pug 0-4-0T.....	from £525.00
GWR/BR 1361 0-6-0ST.....	from £695.00
GWR/BR 8750 Pannier tank.....	from £695.00
GWR/BR King 4-6-0.....	from £1260.00
GWR/BR Razor Edge railcar.....	£835.00
GWR/BR Parcels railcar.....	£810.00
LNER/BR J39 0-6-0.....	£1075.00
LMS/BR Original Patriot.....	£1650.00

GLADIATOR LOCO KITS

Over 100 R-T-R locos available off the shelf	
FT6 LNER/BR J25 0-6-0.....	£225.00
GTR1 LNER/BR D10/D11 4-4-0.....	£295.00
GTR18 LMS/BR de-streamlined Duchess.....	£395.00
GTR19 LMS/BR non-streamlined Duchess.....	£395.00
GTR20 LMS/BR Princess.....	£395.00
GTR21 LMS/BR Rebuilt Royal Scot.....	£345.00
GTR24 LMS/BR Original Patriot.....	£345.00
GTR25 LMS/BR Rebuilt Patriot.....	£345.00
GTR28 LMS/BR 2F 4-4-0.....	£315.00
GTR31 LMS/BR Locomotive 0-4-4T.....	£235.00
GTR44 LNWRLMS/BR Coal Tank 0-6-2T.....	£225.00
GTR48 LNWRLMS Crane Tank.....	£205.00
GTR50 LNER/BR Beyer Garrett 2-8-2.....	£595.00

JAVELIN LOCOMOTIVE KITS

JKK3 GWR/BR Dukedog 4-4-0.....	£325.00
JKK5 SECVR/BR D Class 4-4-0.....	£305.00
JKK6 G.W.R. Dean Goods 0-6-0.....	£295.00
JKK7 SECVR/BR C Class 0-6-0.....	£295.00
JKK11 LMS/BR Long Fire Box Black Five.....	£345.00

MERCIAN LOCO KITS

SG5 LNER/BR J94 Austerity 0-6-0ST.....	£180.00
TG2 GWR/BR 140x Autotank.....	£175.00
ML11 M.R. Spinner 4-2-2.....	£295.00

TOWER COLLECTION (D.J.H.) BEGINNERS KITS

Includes wheels, gears and motor	
TC1 Class 02 0-4-0 Diesel Shunter.....	£240.00
TC3 Andrew Barclay 0-4-0 Steam Shunter.....	£240.00

TOWER COLLECTION LOCO KITS

Require wheels, gears and motor	
TC2 LMS streamlined Coronation.....	£525.00
TC4 LMS/BR non-streamlined Duchess.....	£525.00
TC5 LMS/BR de-streamlined Duchess.....	£525.00
TC6 LMS/BR St. William Stalner.....	£525.00
TC7 LMS/BR Black Five 4-6-0.....	£525.00
TC14 LMS/BR Stalner 8F 2-8-0.....	£525.00
TC16 LMS/BR Duchess with sloping firebox.....	£525.00

D.J.H. LOCO KITS

K300 B.R. Standard 840x 2-6-2T.....	£345.00
K301 B.R. Standard 2MT 2-6-0.....	£395.00
K302 LMS/BR J.vatt 2-6-2T.....	£345.00
K303 LMS/BR Fairburn 2-6-4T.....	£345.00
K310A LNER/BR A3 with Corridor tender.....	£575.00
K317B BR Britannia with BR1/A tender.....	£575.00
K324B B.R. 9F 2-10-0 BR1B/BR1C.....	£575.00
K326 B.R. Class 03 complete kit.....	£395.00
K336 LNER/BR J. Peppercorn A2.....	£535.00
K338 LNER/BR GS 0-4-0T.....	£395.00
K340 B.R. Class 14 complete kit.....	£395.00
K344 NEW LNER/BR Hunt Class 4-4-0.....	£475.00
K345 NEW LNER/BR Thompson A2/1.....	£556.00

PECO LINESIDE KITS

LK704 Wooden lineside hut kit.....	£19.00
LK705 Brick lineside hut.....	£19.00
LK709 Ground Level Signal Box.....	£27.25
LK735 GWR Yard Crane.....	£20.50
LK741 GWR spear fencing.....	£10.50
LK 742 GWR spear fencing ramps.....	£10.50
LK743 Field fencing and gates.....	£9.45
LK745 Telegraph Poles (4).....	£8.00
LK749 Loading Gauges (2).....	£11.85
LK750 Single track level crossing gates.....	£19.25
LK758 Platelayers tools.....	£6.10
LK759 Platform lamps (4).....	£8.35
LK760 Telephone boxes (2).....	£8.35
LK761 GWR Station seats (4).....	£7.90
LK762 MR/NER station seats (4).....	£7.90
LK763 SR/BR station seats.....	£7.90
LK764 Bicycles (8).....	£7.90
LK790 GWR home or distant signal.....	£17.75

SLATERS BR WAGONS AND VANS

7062 B.R. 12ton Vanwide.....	£37.50
7063 B.R. Standard Van.....	£37.50
7064 B.R. 12ton Standard/Flat Van.....	£37.50
7065 B.R. Meat Van.....	£37.50
7066 B.R. Insulated Van.....	£37.50
7067 B.R. 13 ton conflat 'A'.....	£37.50
7069 B.R. Lowlift Wagon.....	£37.50
7070 B.R. 12 ton Palvan.....	£37.50
7071 B.R. 13 ton High Goods Wagon.....	£37.50

PECO WAGON KITS

W601 GWR Toad brake can.....	£38.75
W602 GWR Permanent Way brake.....	£38.75
W603 GWR 6 wheel brake.....	£40.50
W604 GWR 4 plank open.....	£32.50
W605 GWR Steel Open.....	£32.50
W606 GWR 10 ton Van.....	£39.75
W607 BR 16 ton Mineral wagon.....	£40.50
W608 BR 27 ton Iron Ore wagon.....	£39.75
W609 BR 20 ton Pig Iron wagon.....	£39.75

PECO 'O' GAUGE TRACKWORK

SLE786BH Curved R/H Point.....	£52.25
SLE787BH Curved L/H Point.....	£52.25
SL700BH 12 yards flexitrack.....	£76.95
SLE791BH Right Hand Point.....	£41.95
SLE792BH Left Hand Point.....	£41.95
SLE797BH Y Point.....	£41.95
SLE790BH Double Slip.....	£87.95
SL10 24 metal railjoiners.....	£2.65
SL11 12 insulated railjoiners.....	£2.65
SL740BH Buffer stop.....	£2.65
TP1 Long Track pins (15mm).....	£3.25
S1700 Box (6) 393mm straight.....	£43.25
S1725 Half circle 1028mm radius curves.....	£46.00
NEW Setback R/H Point.....	TBA
NEW Setback L/H Point.....	TBA

HELMESMAN CONTROLLERS

CFS4 Samp Single Controller.....	£145.00
RM5 Remote handset for above.....	£40.00

H.M.R.S. TRANSFERS

H1 L.M.S. gold loco and coach.....	£20.00
H2 L.M.S. yellow loco and coach.....	£20.00
H2A L.M.S. black style/Crews loco.....	£20.00
H3 L.M.S. loco lining.....	£20.00
H3A L.M.S. coach lining.....	£20.00
H4 L.N.E.R. green loco and coach.....	£20.00
H4A L.N.E.R. black loco and Gill Sands.....	£20.00
H5 L.N.E.R. loco lining.....	£20.00
H6 L.M.S. goods wagon lettering.....	£18.50
H7 G.W.R. loco and coach lettering.....	£20.00
H8 G.W.R. loco and coach lining.....	£20.00
H9 S.R. Maunsell loco and coach lettering.....	£20.00
H10 S.R. Bulleid loco and coach lettering.....	£20.00
H11 G.W.R. goods wagon lettering.....	£18.50
H12 L.N.E.R. goods wagon lettering.....	£18.50
H13 S.R. goods wagon lettering.....	£18.50
H14 BR steam loco and coach lettering.....	£18.50
H15 BR blue diesel and coach lettering.....	£18.50
H16 LNWRLMS/BR loco & wgn.....	£21.00
H17 LTR/MR/SD/LY/MCR gds lettering.....	£21.00
H18 N.E.R. loco and coach lettering.....	£21.00
H20 CB/NS/GSWR/HR/GNSR wgn lettering.....	£20.00
H22 B.R. mixed traffic/L.N.W.R. loco lining.....	£20.00
H24 MR/SD/LY/LTR/MGN loco & coach.....	£21.00
H25 B.R. pre-TOPS wagon numbers etc.....	£18.50
H26 B.R. pre-TOPS wgn instructions etc.....	£18.50
H31 Pullman crests, names and numbers.....	£21.00
H32 Pullman lining.....	£18.50
H40 G.N.R. coach lettering.....	£21.00

PARKSIDE WAGON KITS (SAVE 10-25%)

PS14 BR Grampus Ballast wagon.....	£32.85
PS15 BR 21 Ton Mineral wagon.....	£32.85
PS16 LNER Loco Coal wagon.....	£32.85
PS17 BR 12 ton Pipe wagon.....	£32.85
PS23 GWR/BR 13 ton open wagon.....	£32.85
PS24 GWR/BR 12 ton unfitted van.....	£32.85
PS25 BR 24.5 ton mineral wagon.....	£32.85
PS26 GWR/BR 12 ton fitted van.....	£32.85
PS27 GWR/BR 12 ton open with tarp bar.....	£32.85
PS28 GWR/BR 12 ton plywood van.....	£32.85
PS29 GWR/BR Fruit van.....	£32.85
PS30 BR 16 ton mineral wagon.....	£32.85
PS31 BR 16 ton slope sided mineral.....	£32.85
PS32 BR 16 ton mineral (ex SNCF).....	£32.85
PS33 BR 8 Plank wooden mineral.....	£32.85
PS42 LMS/BR 12 ton open wagon.....	£32.85
PS45 LNER/BR 12 ton goods van.....	£32.85
PS46 LNER/BR 12 ton fruit van.....	£32.85
PS49 GWR/BR Mica van.....	£32.85
PS100 SR/BR Banana van.....	£32.85
PS101 SR/BR Meat van.....	£32.85
PS104 BR 21 ton coal hopper.....	£32.85
PS106 SR/BR Cattle truck.....	£32.85
PS112 GWR/BR Gunpowder van.....	£32.85
PS114 LMS/BR Banana van.....	£32.85

Any six for £164.50 saving 25% off RRP

BACHMANN SCENECRAFT BUILDINGS

47040 Diesel Refuelling Point.....	£39.95
47047 Hampton Hill Platelayers Hut.....	£24.95
47203 Low Relief Corner Shop.....	£25.95
47004 Provender Store.....	Special offer £30.00
47009 Single Engine Shed.....	Special offer £60.00
47036 Sectional Lineside Hut.....	£20.50

DAPOL R-T-R TERRIERS

G.W.R. green Portishead	
L.B.S.C. Marsh upper Gipsyhill	
S.R. green Ashbourne	
BR late crest black 32636	
RRP £225.00 OUR PRICE £189.00	
Sound fitted RRP £410.70 OUR PRICE £345.00	

LIONHEART SUBURBAN COACHES

Fully finished superb quality with interior details and lights.	
Single cars (3 types) B.R. Maroon	
RRP £265.00 OUR PRICE £225.00	
2 car 'B' set G.W.R. or B.R. 6 types	
RRP £470.50 OUR PRICE £399.99	
4 car D set G.W.R. or B.R. 4 types	
RRP £823.50 OUR PRICE £599.99	

DAPOL (EX LIONHEART) PANNIERS

64XX and 74XX G.W.R. or B.R.	
List Price £399.00 OUR PRICE £340.00	
Available mid 2017 Reserve yours now	

DAPOL (EX LIONHEART) AUTOCOACHES

Choice of B.R. or G.W.R. Liveries	
RRP £200.00 OUR PRICE £170.00	
Available mid 2017 Reserve yours now	

NEW DAPOL 57XX LOW CAB PANNIER

Available in a range of G.W.R. and B.R. liveries plus London Transport red	
RRP £235.00 OUR PRICE £199.75	
Available mid 2017 Reserve yours now	

NEW DAPOL 10 FOOT W.B. WAGONS

B.R. Open Wagons (various)	
RRP £45.00 OUR PRICE £38.50	
B.R. VEA, VBA, MEAT, INSULATED AND STANDARD VANS (12 TYPES)	
RRP £49.95 OUR PRICE £42.50	

DAPOL R.T.R. WAGONS

A range of approx 100 private owner and company wagons 5, 7 and 8 plank	
RRP £44.41 OUR PRICE £38.00	
6 WHEEL MILK TANKERS 5 TYPES	
RRP £80.60 OUR PRICE £70.00	
S.R. / B.R. PILLBOX BRAKE VANS (4 Liveries)	
RRP £80.60 OUR PRICE £70.00	
See our website for details	

NEW DAPOL JINTY

Early or late LMS S.D.J.R. British	
Railways or late B.R. available numbered or un-numbered	
RRP £225.00 OUR PRICE £191.25	
Any of the above sound fitted	
RRP £400.00 OUR PRICE £340.00	
Available late 2017. Reserve yours now	

NEW HORNBY O GAUGE BUILDINGS

Fully assembled and painted	
99080 Great Northern Station.....	£80.00
99081 Station Waiting Room.....	£55.00
99082 Platform Mounted Signal Box.....	£50.00
99085 Platelayers Hut.....	£22.50
99087 Great Northern Water Tower.....	£37.50
All the above can be seen on our website	

IXION HUDSWELL CLARKE

R.T.R 0-6-0 LOCO	
Lined forest green	
RRP £299.00 OUR PRICE £225.00	
OR FITTED WITH DCC SOUND £375.00	

IXION FOWLER

0-4-0 DIESEL SHUNTER	
GWR No1 lined green	
or private owner plain green	
RRP £299.00 OUR PRICE £225.00	

HELJAN CLASS 128 PARCELS RAILCAR

6 Versions	
See website for details	
RRP £579.00 OUR PRICE £460.00	
Available mid 2017. Reserve yours now	

NEW HELJAN CLASS 121

Passenger Railcar	
Available in a range of liveries from Cats Whiskers to N.S.E	
RRP £579.00 OUR PRICE £460.00	
Available late 2017. Reserve yours now.	

NEW HELJAN CLASS 117

3 Car D.M.U	
Available in a range of liveries from Cats Whiskers to N.S.E	
RRP £1100.00 OUR PRICE £875.00	
Available late 2018. Reserve yours now.	

NEW HELJAN CLASS 120

2 and 3 Car D.M.U	
Choice of blue or green liveries	
2 car set RRP £800.00 OUR PRICE £540.00	
3 car set RRP £1100.00 OUR PRICE £875.00	
Available late 2018. Reserve yours now.	

NEW HELJAN 61XX PRAIRIE TANK

HJ6100 6110 Great Western	
HJ6101 6106 G.W.R.	
HJ6102 6114 B.R. unlined black	
HJ6103 6111 B.R. unlined green	
HJ6104 6132 B.R. lined green	
HJ6120 un-numbered Great Western	
HJ6121 un-numbered B.R. unlined black	
HJ6122 un-numbered B.R. unlined green	
HJ6123 un-numbered B.R. lined green	
HJ6124 5184 Great Western	
HJ6125 4144 B.R. unlined black	
HJ6126 5158 B.R. lined green	
RRP £849.00 OUR PRICE £500.00	
Available late 2017 Reserve yours now	
See our website for full details	

NEW HELJAN 43XX MOGUL

7 standard versions in G.W.R. and B.R. all un-numbered and 3 limited editions numbered	
List Price £779.00 OUR PRICE £630.00	
Available 2018 Reserve yours now	

NEW HELJAN CLASS 45

6 versions from original green to later blue	
RRP £699.00 OUR PRICE £550.00	
Available 2017 Reserve yours now	

NEW HELJAN CLASS 03

Several versions from original green to later blue	
Prices to be confirmed	
See our website for details	

NEW HELJAN CLASS 05

HJ2590 B.R. Plain Green	
HJ2591 B.R. Green with chevrons early	
HJ2592 B.R. Green with chevrons late	
HJ2593 B.R. Blue with chevrons	
HJ2594 CEGB Yellow	
HJ2595 NCB Green	
HJ2596 Industrial Maroon	
RRP £395.00 OUR PRICE £315.00	
Available mid 2017 Reserve yours now	

HELJAN READY TO RUN WAGONS

Class B tankers 4 types	
VAA vans 4 types	
OAA open wagons 5 types	
RRP £84.95 OUR PRICE £70.00	
Mix and match any ten for £65.00 each	

NEW HELJAN CLASS 37 CENTRE HEAD CODE VERSION

CENTRE HEAD CODE VERSION

Green with yellow panel
Green with yellow ends
Blue with yellow ends
Blue large logo
Dutch livery
Railfreight 3 versions

RRP £599.00 OUR PRICE £475.00



DABBLING WITH DAPOL 2:

CONVERT A TURNTABLE INTO A SWING BRIDGE



Taking a closer look at Dapol's comprehensive range of kits was a pivotal moment for **PAUL A. LUNN**, who finds a different use for an unloved turntable kit.

I'd forgotten just how comprehensive Dapol's range of plastic kits was until I started my research for the 'Dabbling with Dapol' kit-bashing feature in MR232. One kit that started me thinking was the CO01 Turntable, which was always pretty useless as a turntable, but I had a feeling that the girders could be suitable for something else.



It was while I was cutting and hacking at the church kit that I had an idea: those girders would be ideal for a small dockside bridge. Further inspiration came from the little swing bridge at Hayle Wharf, in Cornwall.

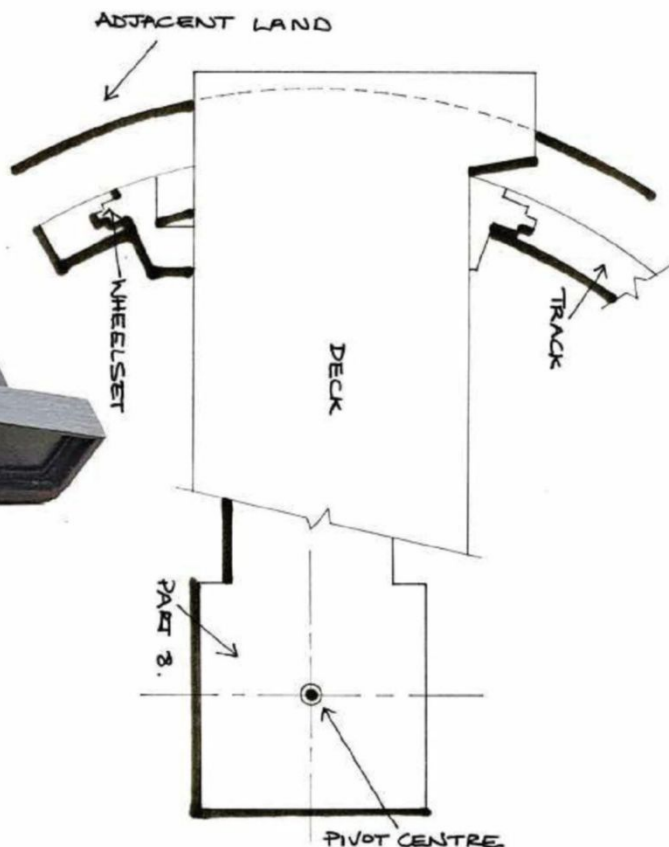
I've used the deck in its entirety, but with wheelsets at just one end. At the lowest level, the deck rotates on part 8, which is held to the circular

running rail at one side only, with part 7 or 9. You'll need to use part 2 and some sections of curved track, sufficient to cover a quarter-turn, so when it's fully open the deck will be at right angles to its starting position. This provides a clear route for boat traffic along the narrow river inlet, as at Hayle. More advanced modellers may wish to motorise the unit, or convert it for rail use. **MR**



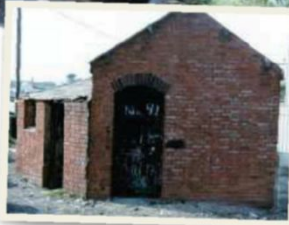
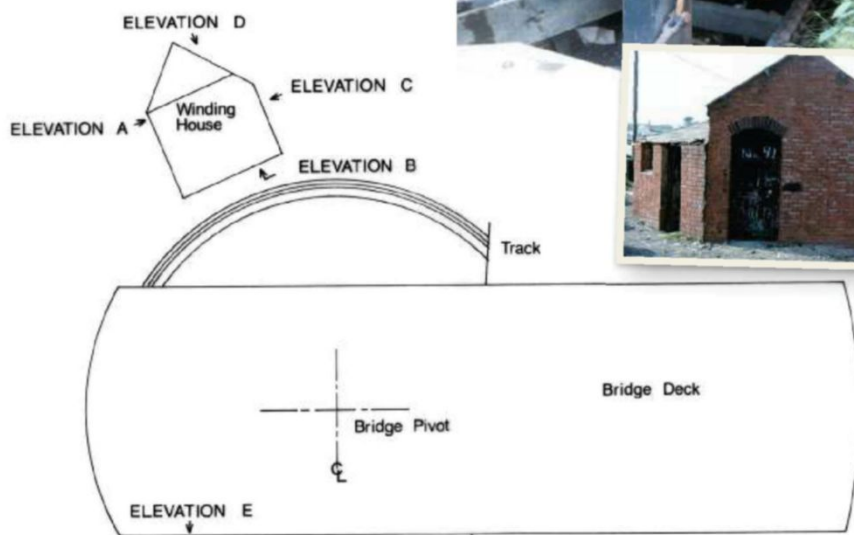
Swing into action

On the prototype you'll see each end of the bridge is curved, to allow the bridge to turn. While advanced modellers might wish to shorten the girders accordingly, it's a substantial task for beginners. A simple solution would be to let the deck pass over the adjacent scenic baseboard, as shown in the accompanying drawing and photos. As you can see, I've reduced the underside mouldings at both ends to achieve closer contact to the adjoining road, and I've 'feathered' the deck edge, also at both ends, to minimise any difference in levels.



Power house

Hayle Wharves Swing Bridge has a separate winding house, as shown on the plan below, containing a chain-driven winding mechanism and a brake lever (the elevation labels aren't relevant to this makeover). Modellers may prefer this interpretation using a Dapol hut from the Trackside Accessories pack, in which case you'll need to remove parts 7 and 54 and the short protruding wooden walkway supporting it from the main deck.



SMOOTH OPERATION

The kit's main weaknesses are moulding flash lines and release slopes, top and bottom, along the full length of both girders. The accompanying photos show the method for cleaning and squaring up all edges, and demonstrate the clear benefit, in terms of appearance, for gluing girders squarely to the deck. Note the rear section is untreated, whereas the foreground section has been 'sanded' using medium grade wet and dry paper, without water. I usually work through several grades of paper, from coarse to very fine, to achieve a smooth surface.



TURNTABLE TRANSFORMATION

For those wanting to stick with the turntable theme, have a look at this effort from my friend Peter Salmon. Peter has removed the handrails from Hornby's R070 Turntable

and replaced them with the girders from Dapol's kit. The turntable deck was suitably 'rusty' with ModelMates products, while Wills Kits chequer plate was

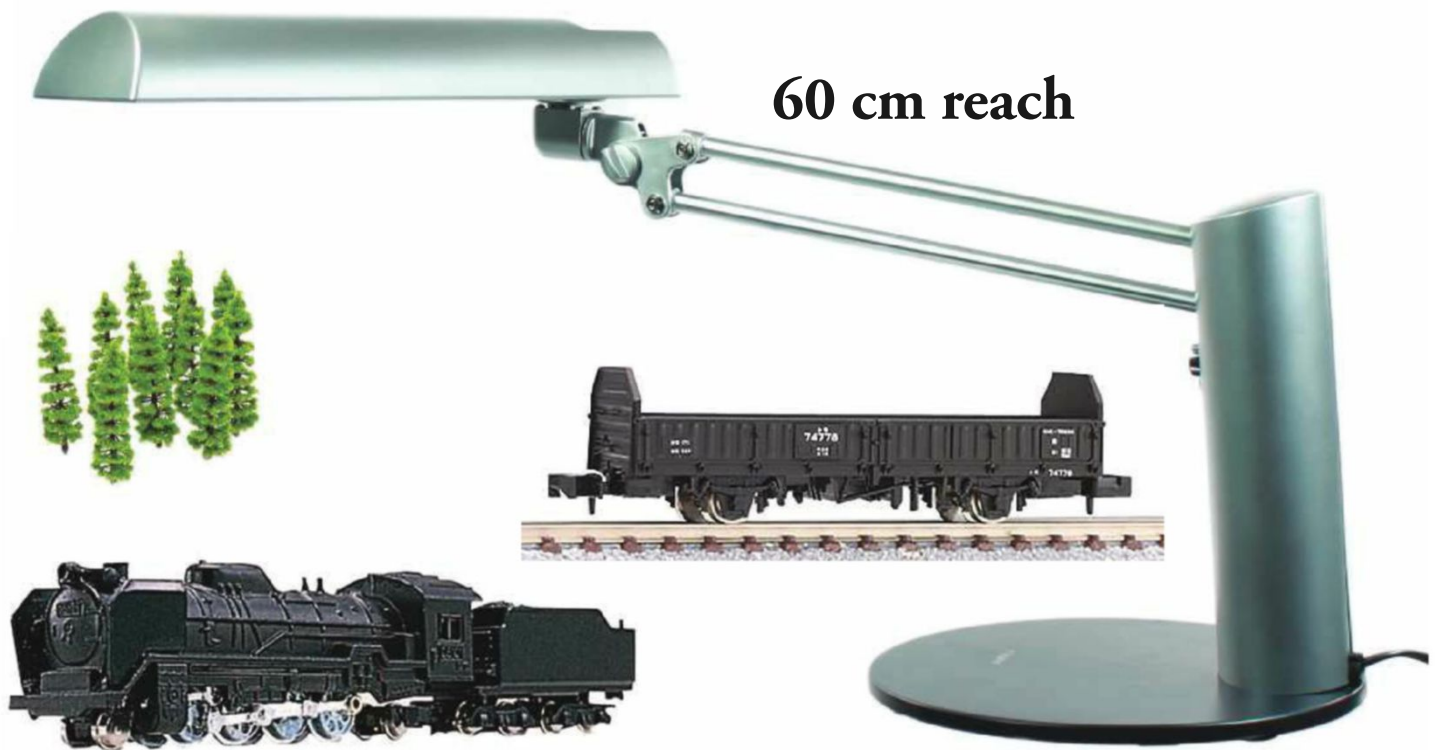
placed either side of the track and Wills Kits wood planking inserted between the running rails.

PICTURE: PETER SALMON



WWW.CRAFTLIGHTS.CO.UK
READER SPECIAL OFFER
THE MOLLY HIGH DEFINITION
DAYLIGHT CRAFTLIGHT
WITH BONUS OF BATTERY OPERATED
PORTABLE LED DAYLIGHT CRAFT LAMP.

WOW



WHAT YOU GET IN THE DEAL:

ONE X MOLLY 27 WATT DAYLIGHT HIGH DEFINITION LAMP £49.95.

ONE X LED PORTABLE BATTERY OPERATED FOLDING LAMP £25.00.

POST AND PACKING £8.00.

A TOTAL OF £82.95.

YOU PAY £49.95 INC OF P+P

SAVEING £33.00

Features:

Articulated arm moves up and down, shade moves from side to side.

6400k 27 watt tube ideal for any modelling where colour and clarity are needed.

To Order call 01502 587598 or order online at www.craftlights.co.uk Quote RAIL2016 At checkout to obtain the offer price





MAKE A FOAM CALL

Q I'm laying and ballasting Setrack for the first time. Can you recommend a type of underlay that will reduce the sound of operating trains, and is easy to use?
Ally Cohen, via e-mail.

A Woodland Scenics Track-Bed Roll is available in 'N', 'OO'/HO' and 'O'. The foam underlay absorbs the noise of passing trains and is easily cut to size using

a sharp craft knife. It can be fixed with PVA glue or Woodland Scenics Foam Tack Glue.

According to Woodland Scenics, the product can be used in conjunction with cork sheet, will remain flexible, and will not dry out over time. For tight curves, it is recommended that you separate the product along the centre seam before repositioning the two pieces snugly together.

Track-Bed Strips are also available,

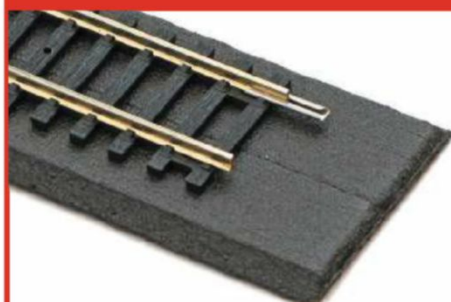
as is Track-Bed Super Sheet - which is suitable for use beneath goods yards and points.

Below you'll find a step-by-step tutorial on how to lay and ballast track on top of foam underlay. I used a single Track-Bed Roll (7.3m) and a single Track-Bed Super Sheet (30cm by 61cm). It took me around one hour to lay the necessary foam underlay on a layout loop containing three points and a siding. *(Peter Marriott)*

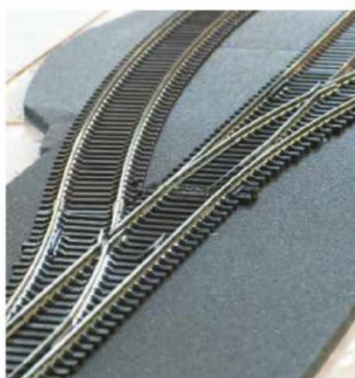
TOP TIP

If you take the time to produce a flat and stable baseboard, the track laying will be much easier, and the layout much more enjoyable to operate.

USING WOODLAND SCENICS TRACK-BED



A strip of 'HO'/OO' Track-Bed Roll; the sides are bevelled to represent the ballast shoulder. The central seam line can be pulled apart to better accommodate tight curves.



Above: When using Track-Bed Roll or Strips with points, you'll need to cut additional pieces to accommodate the curved secondary section of track - the additional piece will need to be bevelled.

Left: Using Super Sheets makes laying Track-Bed under points easier and quicker because the sections do not have to be cut to size. Super Sheets are particularly useful when laying lots of parallel track together, like goods yard for example.

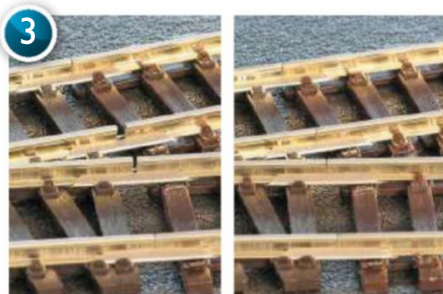
HOW TO DO IT: TRACK LAYING



The Peco website provides templates of points and crossings that can be downloaded and printed. This is a good way to see how the track layout will look like before buying the pieces of track.



Use a good quality rail cutter to cut the flexible or sectional track - I used DCCconcepts Track Cutters. Clean up the cut rails using a small file and, after the track is lightly fixed to the baseboard, run a train to test the track before it is firmly fixed to the baseboard.



Make sure that the rails and the fishplates (track joiners) fit snugly together - misaligned fishplates can cause derailments. Check a join by pushing the piece of track together on a flat surface and run your fingers over it before fixing the track.



Spread PVA glue on top of the Track-Bed to fix the track. This allows for some repositioning, so if you don't get it right first time, you have a few minutes to make any adjustments.



I would recommend weathering your track before ballasting. The easiest method is to use a matt brown acrylic aerosol - I used Humbrol Dark Brown. Masking tape should be used to protect the moving parts of each point.

BASEBOARD JOINS

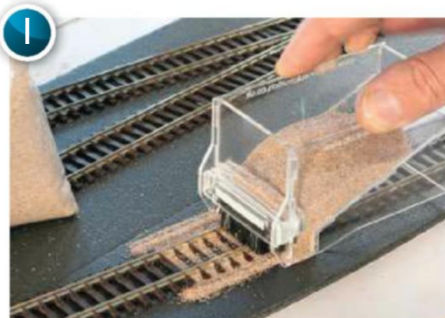


Once laid, weathered and ballasted, the only thing left to address is the baseboard joins. I used an electric drill with a slitting disc to cut through the sleepers and rails.



I then used a needle file to clean up the cut ends of the rails before fitting fishplates onto each rail on one baseboard. The baseboards were then carefully paired, with the corresponding rails sliding into the fishplates.

HOW TO DO IT: BALLAST TRACK



I've found that the Gravelboy Ballast Spreader from DCC Train Automation is a quick and easy way to distribute ballast. Simply drag the device across a few centimetres of track.



Gently tap both rails with the handle of a scalpel or similarly weighted implement to further settle ballast between the sleepers. Then carefully brush away any excess material.



I drenched the ballast in WWS Track Ballast Glue - a ready-made, specialist adhesive formulated for fixing ballast. It dries much quicker than PVA/washing-up liquid solution.



Leave any points until last and ballast them by hand - ensuring that any moving parts can still work accordingly. I'd recommend applying very small amounts of ballast with a teaspoon.



SPECIAL

Martin Ainsworth, by e-mail

Ready-to-run models may be lovely to look at or fun to play with, but the frustration of losing bits when you take them apart, or finding that you can't add extra detail can provoke some 'colourful' language. Here are five simple tips and tricks that should stop the air from turning blue!



DON'T LOSE YOUR THREAD

Ready-to-run models are held together by lots of small, fiddly screws. They're often black and difficult to see when they're on the model, but if they roll off your desk and onto the carpet, they're nearly invisible.

You could store them in a small container, but a better option is to use a small magnet to hold them. Either tape a small piece of magnetic strip to the edge of a cutting mat and drop the screws onto it, or keep a button-type magnet handy (the sort used on notice boards), so you can use it to pick up the screws off the desk.

THE FINER POINTS

The fine gel pens that you see in art shops look as though they should have a use on a layout. But what?

They have very fine nibs, typically 0.7mm, and can replace a very fine paintbrush. A white gel pen can be used to add detail such as chalk markings on wagons, or highlight details like lamp brackets. It is worth pointing out that in 'OO' gauge these pens are not fine enough to create scale lettering, but with a little practice and care we can get close.

A gold or brass gel pen can be used for highlighting pipes on steam locomotives, especially those inside the cab. Highlighting this detail with a small

paintbrush is difficult and has the potential for causing drips and splashes, whereas gel pens don't drip or splash. As they are designed for use on card or paper, they do have an occasional tendency to stop working on plastic, but after a quick scribble on a piece of card they'll start working again.



GRAPHITE CLUB

Remember all your school pencils that had HB stamped on them? Ever wondered what HB stands for? Well, it's a classification system for the hardness or blackness of a pencil.

A 9H pencil has a really hard graphite/clay mix, giving a very faint line, whereas a 9B is a soft mix, which creates a dark line.

An HB sits firmly in the middle of the scale. Why am I talking about pencils? Well, a 9B pencil can be used on rolling stock to give a coal or coal dust effect.

Many model locomotives have moulded coal loads, and rubbing a 9B pencil over this plastic coal in several directions will give it a much more realistic coal-like appearance than the plain black plastic. You can also run a 9B over the bunker, tender and wagon sides to simulate the coal dust that collects on surfaces. Running a 9B pencil around the inside and floor of an empty coal wagon gives a really convincing 'just used' effect.



ROLL MODEL

You know that your supposedly flat workbench isn't truly flat when you put a wheelset on it and it rolls away...

What do you do? You can't put them on end as the axles have 'pin points', and you don't want to run the risk of securing them with tape or Blu Tack as you might find that residue will hamper future performance.

Simply place one axle on top of the other to make a cross. This simple little tip will stop them rolling away and they'll stay put, ready to be re-inserted when needed.



Jammed tight?

Most of us will have tins or jars of paint that we've had for ages, on which the lid or cap will be stuck fast because of dried paint inside the lid. The usual solution is to lever the lid off with a screwdriver, or to try to loosen the cap in a pair of mole grips. In the worst case scenario, you'd just buy new paint. But that's a bit like using a hammer to crack a nut.

What we need to do is loosen the dry paint. Apply a small amount of thinners or Deluxe Materials Paint Magic with

a brush around the lid, or turn the bottle upside down and use a brush to feed the liquid into the cap.

Leave it for a few minutes to soften the paint and you should now be able to carefully remove the lid or cap. Now take a piece of kitchen towel and clean all the softened paint from the lid and rim of the tin, or the inside of the cap and bottle top. This will stop any lumps getting into your paint and should prevent it from happening again.





Cobalt iP digital

**525,000 plus changes and still going...
counted on its own internal switches!**

A look behind the scenes @DCCconcepts:

Every time we produce a batch of Cobalt motors, we take random samples from the batch and test them until they no longer work perfectly!

What's more, while that is of course important, we don't just test them for reliable changing... We count all our tests two ways, watching both the commands to change sent from the Tester AND reading the feed-back from Cobalts own on-board S.P.D.T. switches.

We also analyse every single test, trying to make every Cobalt motor a little better every single time...

The result? Cobalt tests now exceed 500,000 changes per test... with little no change in the operating quality



So why are Cobalt iP Digital and Cobalt iP Analog so reliable?

- Tooling is replaced before it wears and the case is made from super-stable plastics
- Gearing is made from really long-life engineering plastics created for gearing use.
- We use Gold plated Phosphor-bronze contacts & we harden switching PCB tracks for low wear.

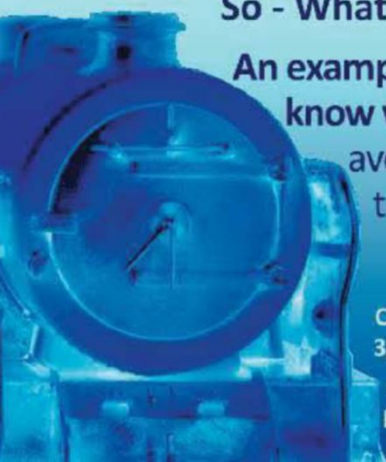
So - What does such high reliability mean for YOU? We think it means a lot!

An example? we offer a lifetime warranty: However - What's it worth unless we know what a lifetime may be? In the case of Cobalt iP we now KNOW that the average Cobalt iP turnout motor, Digital or Analog will out-last us all as the tests we put them through equal more than 200 years "On-layout" use...

So our LIFETIME warranty is a real benefit to YOU: We like that!

Cobalt point motors & all other DCCconcepts products are distributed world-wide by DCCconcepts Pty. Ltd
3/13 Lionel St, Naval Base WA 6165 Australia P+61 8 9437 2470 F+61 8 9437 2471 www.dccconcepts.com

DCCconcepts welcomes Retailer & Distributor enquiries. In the UK, DCCconcepts products are distributed by Gaugemaster Controls Ltd., Ford Rd, Arundel BN18 0BN Ph. +44 1903 884 488 www.gaugemaster.com



MODEL RAIL EXCLUSIVES

Order online at www.modelrailoffers.co.uk or telephone 01209 613984

LATEST BOOKAZINES

BRITAIN'S MODEL TRAINS 2017

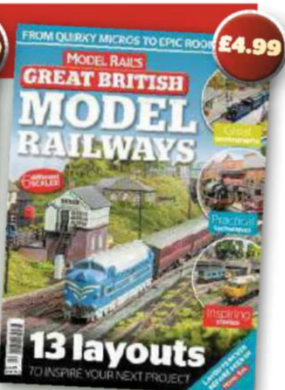
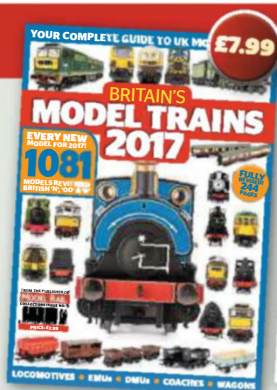
- Every new model for 2017
- 1,081 models reviewed and rated
- Prototype information

IDEAS FOR LAYOUTS - FAMOUS TRAINS

Inspirational layout ideas, exciting projects and a wealth of information about Britain's most famous trains.

GREAT BRITISH MODEL RAILWAYS

Celebrate the skill, imagination and craftsmanship of Britain's best layout builders.



☎ 01733 840111 www.greatmagazines.co.uk/modelrailbookazines

BACHMANN 32-775Y CLASS 37 37068 GRAINFLOW



Model Rail is pleased to unveil Class 37 37068 Grainflow in Railfreight Distribution 'triple grey'. 37068 received its new name at a ceremony at Ely on September 23 1987 to mark a five-year contract between wagon leasing company CAIB and Railfreight to provide grain wagons. Our model depicts 37068 in its early 1990s guise and perfectly complements Bachmann's new Polybulk grain hoppers.



£ £125.95 (MR subscribers £112.50) inc. P&P

IN STOCK NOW!

HELJAN 34121 BR GREEN BRCW TYPE 3 DIESEL (CLASS 33/0) D6510



Based on Heljan's all-new Class 33/0 tooling, this exclusive model features BR green D6510 in mid-1960s condition with small yellow warning panels and white trim. Improvements over the old '33' include fine etched metal radiator grilles and footsteps, finer handrails and a much better overall body shape. The model also has an eight-pin DCC decoder socket, directional lights and NEM couplings. Limited to just 500 pieces.



£ £125.99 (MR subscribers save 10% £113.50) inc. P&P

IN STOCK NOW!

BACHMANN 31-650R PROVINCIAL SERVICES CLASS 47/4 DIESEL 47475



To complement our limited edition Bachmann Trans-Pennine Mk 2a coaches, we've commissioned a model of the unique Provincial Services Class 47/4, which was a regular performer on Liverpool-Newcastle and associated routes in the late

1980s and early 1990s. The model has a 21-pin DCC socket, directional headlights and switchable cab lights, plus all-wheel drive and pick-up. Limited to 500 pieces.

£ £115.95 (MR subscribers £104.35) inc. P&P

IN STOCK NOW!

BACHMANN 32-725 WDS EURO CARGO RAIL CLASS 66 DIESEL



Produced with the full co-operation of DB Schenker and Euro Cargo Rail, this superb Bachmann Class 66 is now only available with a factory-fitted DCC sound decoder. Our model features modified front skirts with snowploughs and a wealth of extra printed detail as per the prototype, which is used in Britain and France.

IN STOCK NOW!

£ DCC Sound Fitted: £261.95 (MR subscribers £235.75) inc. P&P

All DCC-ready versions have now sold out.

BACHMANN 38-404Z SATLINK ZTR BRAKE VAN

Based on Bachmann's superb Southern Railway 'pillbox' brake van, KDS56153, classified ZTR on TOPS, was used as a personnel carrier to work sites and is the perfect companion to our other 'Satlink' liveried models. Order yours now.

£ Just £29.95

(MR subscribers £27.00) inc. P&P



IN STOCK NOW!



GRAB 'EM WHILE YOU CAN! MODEL RAIL EXCLUSIVES

We're down to the last knockings of some of our *Model Rail* Exclusives, so if you want one, you'd better order one quick!

BACHMANN 31-145Z 'D11' 4-4-0 No. 5511 MARNE

£ £146.95 (MR subscribers £132.26) inc. P&P

JUST 35 LEFT!



HELJAN 89431 'RED STAR' EXPRESS PARCELS CLASS 128

£ £139.95

(MR subscribers £125.95) inc. P&P

JUST 26 LEFT!



*Please note: All quantities were correct at the time of publication.

MR-102: No. 68

JUST 39 LEFT!



Southern Railway black

£ £124.95 (MR subscribers £112.46) inc. P&P

MR-103: No. 30069

JUST 11 LEFT!



BR early emblem black

£ £124.95 (MR subscribers £112.46) inc. P&P

MR-106: No. 30071

JUST 21 LEFT!



BR late emblem black (weathered)

£ £124.95 (MR subscribers £112.46) inc. P&P

WHAT'S ON EXHIBITION DIARY

Apr 8

HELLEDON, NORFOLK. Norwich Railway Heritage and Model Society MRE. Hellesdon High School, Middletons Lane, Hellesdon NR6 5SB. **Time:** 1000-1630. **Admission:** £5. **Tel:** 01508 492917. **E-mail:** tsd24@btinternet.com **Web:** www.norhams.org.uk

HEYWOOD, LANCS. Heywood MRG MRE. Club Rooms. Unit 3, Park Works, River St, Heywood OL10 4AB. **Time:** 1000-1600. **Web:** www.hmrg.co.uk

IPSWICH, SUFFOLK. Ipswich RMA. Club Rooms, 40a Norfolk Road, Ipswich IP4 2HB. **Time:** 1000-1300. **Tel:** 01473 251017. **Web:** www.irma.org.uk

REDHILL, SURREY. East Surrey N Gauge. St Joseph's Catholic Primary School, Linkfield Lane, Redhill RH1 1DU. **Time:** 1000-1600. **Admission:** Adult £4, Child £2, Family £10. **E-mail:** bart.hyd@gmail.com

SHIREHAMPTON, BRISTOL. Shirehampton MRC Open Day. The Public Hall, Station Road, Shirehampton BS11 9TX. **Time:** 1000-1630. **Admission:** Adult £3, Child £1.50. **Tel:** 0117 909 4915.

VIEWSLEY, LONDON. Hillingdon Railway Modellers Test Track Open Day. Viewsley Baptist Church Hall, 74 Colham Avenue, Viewsley, Hillingdon UB7 8HF. **Time:** 1000-1600. **Admission:** £4. **Tel:** 0208 368 4090. **Web:** www.hillingdonrailwaymodellers.co.uk

Apr 8-9

BEAMISH. The Beamish Great North Steam Fair Model Tramway Exhibition. **Time:** 1000-1700. **Admission:** Adult £18.50, Concession £13.50. **Web:** www.beamish.org.uk

CORSHAM, WILTS. Bentley MRG Trainwest 2017. Springfield Community Campus, Beechfield Road, Corsham SN13 9DN. **Time:** Sat 1000-1730, Sun 1000-1630. **Admission:** Adult £8, Child £5. **Tel:** 01249 654417. **Web:** www.trainwest.org.uk

LITTLEBOROUGH, LANCS. Rochdale MRG MRE. Littleborough Coach House, Lodge St, Littleborough, Lancs OL15 9AE. **Time:** Sat 1000-1630, Sun 1000-1630. **Admission:** Adult £3. **Tel:** 07884 167613. **Web:** https://rochdalemrg.wordpress.com

NELSON, LANCS. Brierfield MRC MRE. St Luke's Church Hall, Brierfield, Nelson BB9 5JW. **Time:** 1000-1700, Sun 1000-1600. **Admission:** Adult £3.50, Child £2, Family £10. **Tel:** 07770 331348. **Web:** www.pfmrs.org.uk

Apr 9

CHICHESTER, SUSSEX. Chichester and District Society of Model Engineers 'Steam on Sunday' & MRE Open Afternoon. Blackberry Lane, off Bognor Road, Chichester PO19 7FS. **Tel:** 07954 051594. **Web:** www.cdsme.co.uk

Apr 15

KIRRIEMUIR, SCOTLAND. Kirriemuir Vintage Railway Show. Guide Halls, Roods, Kirriemuir. **Time:** 1000-1600. **Tel:** 01575 574128.

Apr 15-17

GAINSBOROUGH, LINCS. Gainsborough MRS Open Day. **Time:** 1330-1800, Mon 1030-1800. **Admission:** Adult £4, Senior £3, Family £10. **Tel:** 01427 610475. **Web:** www.gainsboroughmodelrailway.co.uk

Apr 16-17

SWADLINCOTE, DERBYSHIRE. Gresley and Wychnor MRG. Gresley Social Centre, 5a Park St, Church Gresley DE11 9QE. **Time:** Sun 1000-1630, Mon 1000-1600. **Admission:** Adult £3, Child £1, Family £6.50.

WEXFORD, EIRE. Wexford MRC Easter Show. St Josephs Community Centre, Wexford. **Time:** Sun 1000-1800, Mon 1100-1700. **Admission:** Adult: £5, Child/Senior £2.50, Family £12.

Apr 22

CHURCH STRETTON, SHROPSHIRE. The Strettons Railway Society. Church Stretton School, Shrewsbury Road, Church Stretton SY6 6EX. **Time:** 1000-1600. **Admission:** Adult £4, Child £2, Concession £3.50. **Tel:** 01694 723370. **Web:** www.strettonsrailwaysociety.org.uk

LLANTWIT FARDRE, S. WALES. Pontypridd MRC MRE. Llantwit Fardre Community Centre, Crown Hill, Llantwit Fardre CF38 2NA. **Time:** 1000-1600. **Tel:** 01443 217511.

MERSTHAM, SURREY. 7mm Narrow Gauge Association (Surrey Area Group). Merstham Village Hall, Station Approach North, Merstham RH1 3ED. **Time:** 1000-1600. **Admission:** Adult £5, Child £3, Family £10. **E-mail:** group.surrey@7mmnga.org.uk. **Web:** www.surrey.7mmnga.org.uk

NEWPORT, S. WALES. NEWGOG South Wales 'O' Gauge Show. Lysaght Institute, Orb Road, Newport NP19 0RA. **Time:** 1000-1630. **Admission:** Adult £6, Concession £5. **Tel:** 07896 967526. **E-mail:** driverlewis2004@yahoo.co.uk

SPRINGFIELD, ESSEX. Chelmsford & District MRC. St Augustine Church, St Augustine Way, Springfield, Chelmsford CM1 6GX. **Time:** 1100-1630. **Admission:** Adult £3, Child £1. **Tel:** 01245 264028. **Web:** www.chelmsford-and-district-mrc.webs.com

STEYNING, SUSSEX. Wealden Railway Group Personal Layout Show. Coombe Court, The Steyning Centre, Fletcher's Croft, Steyning BN44 3XZ. **Time:** 1000-1630. **Admission:** Adult £3.50. **Tel:** 01903 879907.

WELWYN GARDEN CITY, HERTS. De Havilland MRS MRE. Ludwick Way Methodist Church, Ludwick Way, Welwyn Garden City AL7 3PN. **Time:** 1000-1700. **Admission:** Adult £4, Child £2. **Tel:** 01707 267541.

WOKINGHAM, BERKS. N Gauge Society MRE. Sindlesham Baptist Church, Bearwood Road, Sindlesham RG41 5BB. **Time:** 1000-1600. **Admission:** £3. **Web:** www.bagladdies.weebly.com

Apr 22-23

BANGOR, N. IRELAND. North Downs MRS. Bangor Grammar School, Gransha Road, Bangor BT19 7QU. **Time:** Sat 1000-1700, Sun 1200-1700. **Admission:**

Adult £5, Child £4, Family £15. **Tel:** 0289 1450833. **Web:** www.northdownmodel-railwaysociety

COTGRAVE, NOTTS. Bingham MRC South Notts MRS. Cotgrave Welfare, Woodview, Cotgrave NG12 3PJ. **Time:** Sat 1000-1700, Sun 1000-1630. **Admission:** Adult £5, Concession £4, Child £2, Family £10. **E-mail:** cirsle@btinternet.com **Web:** www.bingham-model-rail.co.uk

LIVERPOOL. Liverpool MRS MRE. Ian Robinson Sports Centre, Merchant Taylors School, Liverpool Road, Crosby L23 0QP. **Time:** Sat 1000-1700, Sun 1000-1630. **Admission:** Adult £5, Senior £4, Child £2, Family £12. **Tel:** 0151 5261574. **Web:** www.lmrs.org.uk

EWELL, SURREY. Epsom & Ewell MRC - 'The Epsom Show'. North East Surrey College of Technology, Reigate Road, Ewell. KT17 3DS. **Time:** Sat 1000-1730, Sun 1000-1700. **Admission:** Adult £7. **Tel:** 01483 576274. **Web:** www.eemrc.org.uk

HELSTON, CORNWALL. Helston & Falmouth MRC MRE. Helston Community College, Church Hill, Helston TR13 8NR. **Time:** Sat 1000-1700, Sun 1000-1600. **Admission:** Adult £5, Senior £4, Child £3, Family £12. **Web:** www.hfmrc.co.uk

HORSHAM, SURREY. Crawley MRS MRE. Tanbridge House School, Guildford Road, Horsham RH12 1SR. **Time:** Sat 1000-1700, Sun 1000-1600. **Admission:** Adult £6, Child £4, Family £15. **Web:** www.crawleymrs.org.uk

MARYPORT, CUMBRIA. Maryport Model Club MRE. Netherhall School, Netherhall, Maryport CA15 6NT. **Time:** Sat 1000-1630, Sun 1000-1600. **Admission:** Adult £5, Child £2, Family £10. **Tel:** 01900 813661. **E-mail:** austin5@axln.co.uk

ROMFORD, ESSEX. Ilford and West Essex MRC West Essex Model Railway Club. St Edwards School, London Road, Romford RM7 9NX. **Time:** Sat 1000-1700, Sun 1000-1600. **Admission:** Adult £6, Senior £5, Child £3, Family £14. **Tel:** 01708 442836. **Web:** www.iwemrc.org.uk

SUTTON COLDFIELD. Sutton Coldfield Railway Society MRE. Bishop Walsh School, Wylde Green Road, Sutton Coldfield B76 1QT. **Time:** Sat 1000-1700, Sun 1000-1630. **Admission:** Adult £5, Concession £4. **Web:** www.scrs.club

Apr 28-30

BISHOPS LYDEARD, SOMERSET. Taunton MRG MRE. Platform One, Bishops Lydeard station, West Somerset Railway. **Time:** 1030-1630. **Tel:** 01984 639509. **Web:** www.bathgreenpark.co.uk

Apr 29

COVENTRY. Coventry and Warwickshire O Gauge Modellers. The Church of the Holy Cross, St Austel Road, Wyken CV2 5EA. **Time:** 1000-1500. **Tel:** 02476 313221.

STOURPORT, WORCS. Wyre Forest MRC MRE. Stourport Community Centre, Lower Lickhill Road, Stourport-on-Severn DY13 8RW. **Time:** 1000-1600. **Admission:** Adult £2. **Tel:** 01902 843760. **Web:** www.wyreforestmrc.com

HITCHIN, HERTS. Luton MRC O Gauge Section. Christchurch Hall, Bedford Road, Hitchin SG5 1HF. **Time:** 1030-1700. **Admission:** Adult £5, Child £2, Family £10. **Tel:** 01582 413200. **Web:** www.lutonmodelrailwayclub.org.uk

RYE, SUSSEX. MRE. Milligan Theatre, Rye College, The Grove, Rye TN31 7NQ. **Time:** 1000-1630. **Admission:** Adult £5, Child £2, Family £12. **Tel:** 07595 255150.

Apr 29-30

BRADFORD. Bradford MRC MRE. Sedbergh Community Centre, Huddersfield Road, Bradford BD6 1DJ. **Admission:** Adult/Concession £4.50, Child £1, Family £10. **Web:** www.bradfordmrc.org.uk

WOODGREEN, HANTS. MRE. Woodgreen Village Hall, Woodgreen, nr Fordingbridge SP6 2AJ. **Time:** Sat 1000-1700, Sun 1000-1600. **Admission:** Adult £2, Concession £1.50, Child 80p. **Tel:** 07125 511977. **E-mail:** mbh977@btinternet.com

Apr 30

BRIDPORT, DORSET. Bridport & District MRC MRE. The Salt House, West Bay, Bridport, Dorset DT6 4HD. **Time:** 1000-1600. **Admission:** Adult £1. **Tel:** 01308 863439. **E-mail:** douglas.beazer@btopenworld.com

BROXBORNE, HERTS. Hoddesdon MRC MRE. Club Site, The Old Mill, Mill Lane, Broxbourne EN10 7AX. **Time:** 1000-1600. **Admission:** Adult £2, Child £1. **Tel:** 01707 898420. **Web:** www.hoddesdonmrc.org.uk

KEIGHLEY, YORKS. Keighley MRC Spring Open Day. Knowle Mills, South St, Keighley BD21 1SY. **Time:** Sun 1000-1630. **Admission:** Adult £3.50, Child £2.50. **Tel:** 07771 565617. **Web:** www.keighley-mrc.org.uk

SKELTON, CLEVELAND. Cleveland MRC MRE. Unit 2, The B-Hive, Skelton Industrial Estate, Skelton TS12 2LQ. **Time:** 1000-1600. **Admission:** Adult £1, Child 50p. **Tel:** 07864 880242. **Web:** www.cmrc.club

Apr 30-May 1

QUAINTON, BUCKS. Buckingham Railway Centre, Station Road, Quainton HP22 4BY. **Time:** Sun 0900-1700, Mon 0900-1600. **Admission:** Adult £11, Senior £10, Child £8, Family £32. **Tel:** 01296 655720. **Web:** www.bucksrailcentre.org

May 1

EWELL, SURREY. Epsom & Ewell MRC Open Day. Ruxley Church, Ruxley Lane, West Ewell, Surrey KT19 0JG. **Time:** 1100-1700. **Tel:** 01483 576274. **Web:** www.eemrc.org.uk

May 6

BOGNOR REGIS, SUSSEX. 7mm Narrow Gauge Association (South Downs Group) 'ModelFest' Club, SWING. Felpham Community College, Bognor Regis PO22 8EL. **Time:** 1000-1630. **Admission:** Adult £5, Members £4.50. **Tel:** 07970 556651. **Web:** www.swing.model-railway.org.uk

BUSHEY, HERTS. The South West Herts MRS MRE. Queen's School, Aldenham Road, Bushey WD23 2TY. **Time:** 1000-1630. **Admission:** Adult £6, Child £3. **Tel:** 07783 823457. **Web:** www.southwesthertsmrs.org.uk

CHELMSFORD, ESSEX. Billericay MRG MRE. Galleywood Heritage Centre, Galleywood, Chelmsford CM3 8TR. **Time:** 1000-1700. **Admission:** Adult £5, Concession £4.50, Family £11. **Web:** www.billericaymrg.org

DISS, NORFOLK. Rickinghall and Diss & District MRS. Rickinghall Village Hall, Hinderclay Road, Rickinghall IP22 1HD. **Time:** 1000-1600. **Admission:** Adult £5, Child £1. **Tel:** 07930 188472. **Web:** www.rickinghallvh.onesuffolk.net/events

HEXHAM, NORTHUMBERLAND. Hexham MRS. The Torch Centre, Corbridge Road, Hexham NE46 1QS. **Time:** 1000-1600. Adult £3, Child £1. **Tel:** 07919 368418.

HORSHAM, SURREY. Horsham MRC. St Leonards Church Hall, Cambridge Road, Horsham RH13 5ED. **Time:** 1000-1700. **Admission:** Adult £3.50, Child £2. Family £9. **E-mail:** secretary@horshammrc.org.uk **Web:** www.horshammrc.org.uk

READING, BERKS. Loddon Vale MRC MRE. Swallowfield Parish Hall, Swallowfield St, Swallowfield, Reading RG7 1QX. **Time:** 1000-1630. **Admission:** Adult £4, Child £2, Family £9. **E-mail:** loddonvalemrc1@gmail.com **Web:** www.lvmrc.co.uk

STAMFORD, Lincs. Stamford MRS. Stamford Welland Academy, Green Lane, Stamford PE9 1HE. **Time:** 1000-1630. **Admission:** Adult £4, Child £2, Family £10. **Web:** www.mdmmrc.org

May 6-7

DERBY. Mickleover Model Railway Group. 'Derby MRE 2017'. The Roundhouse, Roundhouse Road, Pride Park Derby DE24 8JE. **Time:** Sat 1000-1700, Sun 1000-1630. **Admission:** Adult £7. **Tel:** 07973 640746. **Web:** www.mmrg.org.uk

May 7 - Top Rail Swapmeet

NEWTON ABBOT, DEVON. Newton Road, Newton Abbot, Devon TQ12 3AF. **Time:** 1000-1530. **Admission:** £2. **Tel:** 01823 480097/07717 278420. **E-mail:** rayheard66@btinternet.com

May 13

HEYWOOD, LANCs. Heywood MRG MRE. Club Rooms. Unit 3, Park Works, River St, Heywood OL10 4AB. **Time:** 1000-1600. **Web:** www.hmrg.co.uk

LUTTERWORTH, LEICS. Lutterworth Railway Society MRE. The Wycliffe Rooms, George St, Lutterworth LE17 4ED. **Time:** 1000-1630. **Admission:** Adult £5, Child £2, Family £9. **Tel:** 01788 310354. **Web:** www.lutterworthrailwaysociety.co.uk

May 13-14

BRACKNELL, BERKS. ExpoEM Spring 2017. Bracknell Leisure Centre, Bagshot Road, Bracknell RG12 9SE. **Time:** Sat 1030-1730, Sun 1000-1630. **Admission:** £8, Child £2, Family £16, Member £6. **Tel:** 07806 093340. **Web:** www.emgs.org

GLENROTHES, FIFE. Glenrothes MRC MRE. Lomond Centre, Woodside Way, Glenrothes KY7 5RA. **Time:** Sat 1000-1700, Sun 1030-1630. **Admission:** Adult £4, Senior £3, Child £2, Family £11. **Tel:** 01334 475311.

SALISBURY. Salisbury & South Wilts Railway Society. Michael Herbert Hall, South Street, Wilton, Salisbury SP2 0JS. **Time:** 1030-1630. **Admission:** Adult £4, Child £2. **Tel:** 07768 448369. **Web:** www.sswrs.org.uk

SCUNTHORPE, Lincs. Scunthorpe Modern Image Railway Group MRE. St Pauls Church Hall, Ashby High Street, Scunthorpe, North Lincs DN16 2JR. **Time:** Sat 1000-1700, Sun 1000-1600. **Admission:** Adult £3.50, Concession £3, Child £2, Family £9. **E-mail:** peterfawcett125@yahoo.co.uk **Web:** www.smrg.co.uk

May 20

BENFLEET, ESSEX. St Mary's MRC MRE. St Mary's Church Hall, 376 High Road, Benfleet SS7 5HL. **Time:** 1000-1600. **Admission:** Adult £3. **Tel:** 01277 225206. **E-mail:** robinsnest.french@btinternet.com

BLOXWICH, W. MIDS. Bloxwich (St John's) MRC MRE. St John's Methodist Church, Victoria Ave, Bloxwich, Walsall WS3 3HS. **Time:** 1000-1630. **Admission:** Adult £4, Child £2. **Tel:** 07970 300258. **E-mail:** bloxwichstjohnsmrc@orangehome.co.uk

ELY, CAMBS. Ely & District MRC MRE. City of Ely Community College, Downham Road, Ely CB6 2SH. **Time:** 1030-1630. **Admission:** Adult £5, Child £3. **Tel:** 01480 454857. **Web:** www.elymrc.org.uk

MIRFIELD, YORKS. Mirfield West Yorkshire Team Parish Music Guild MRE. St Mary's Community Centre, Church Lane, Mirfield WF14 9HU. **Time:** 1000-1600. **Admission:** Adult £4, Child £2. **Tel:** 01924 495929. **E-mail:** Mrs.Dransfield@btinternet.com

TUNBRIDGE WELLS, KENT. Southborough Primary School, Broomhill Park Road, Southborough TN4 0JY. **Time:** 1000-1630. **Admission:** Adult £5, Child £2, Family £12. **Tel:** 07595 255150.

May 26-27

BANGOR, CO. DOWN. First Bangor MRC MRE. First Bangor Presbyterian Church Halls, Upper Main Street, Bangor, Co. Down BT20 4AG. **Time:** Fri 1900-2130. Sat 1000-1630. **Admission:** Adult £5, Concession £3, Child £2, Family £10. **Tel:** 02891 457740.

PROMOTE YOUR EVENT HERE

Model Rail is happy to accept details of club exhibitions for inclusion on this page free of charge on the understanding that details may be edited down to suit available space and that *Model Rail* and its staff are not held responsible for any errors, howsoever caused. Send your exhibition details to: *Model Rail* Exhibition Diary, Media House, Lynchwood, Peterborough Business Park, Peterborough PE2 6EA or e-mail: jane.skinner@bauermedia.co.uk Entries for the June 2017 issue should reach us by April 13 2017.

Class 414 2-HAP EMU Pre-order for £186.96 (estimated)



31-390 6061 in BR green
31-391 6062 in BR blue & grey
31-392 4322 in Network SouthEast livery

Class H2 'Atlantic' 4-4-2 Pre-order for £152.96



31-920 2426 "St Alban's Head" in SR olive green
31-921 32424 "Beachy Head" in BR black with early emblem

Class 20/3 Pre-order for £129 (estimated)



35-125 20306 in Direct Rail Services blue
35-126 20311 in Harry Needle Railroad Company orange
35-127 20312 in Direct Rail Services compass blue



Pre-order at www.hattons.co.uk/bachmann2017

Class 1532 Johnson 1P 0-4-4T Pre-order for £111 (estimated)



31-740 1273 in Midland Railway crimson lake
31-741 1303 in LMS black
31-742 58072 in BR black with early emblem

BR 'Prestwin' Twin Silo wagon Pre-order from £39 (estimated)



38-290 BR bauxite
38-291 CQV in BR bauxite
38-292 CQV in BR bauxite - weathered

SECR 60' Birdcage Coaches Pre-Order for £55.21



39-600 Brake Composite SECR Dark Lake
39-601 Brake Composite SR Olive Green
39-602 Brake Composite BR Vermillion
39-610 Composite SECR Dark Lake
39-611 Composite SR Olive Green
39-612 Composite BR Vermillion
39-620 Brake 3rd SECR Dark Lake
39-621 Brake 3rd SR Olive Green
39-622 Brake 3rd BR Vermillion



Graham Farish Pre-Orders

Refurbished Class 31

Pre-order for £135 (estimated)



371-135 31154 in BR railfreight grey
371-136 31319 in BR railfreight triple grey petroleum sector
371-137 31602 in Network Rail yellow



Hatton's Announce Exclusive O Gauge Class A3, A4 and Teak coaches



Class A3 4-6-2 Pre-order for £750



A3001 2750 "Papyrus" in LNER Grass green with unstreamlined corridor tender
A3002 4472 "Flying Scotsman" in LNER Grass green with unstreamlined corridor tender
A3003 2745 "Captain Cuttle" in LNER black with unstreamlined non-corridor tender
A3004 60072 "Sunstar" in BR Express blue with unstreamlined non-corridor tender
A3005 60035 "Windsor Lad" in BR green with early crest and unstreamlined non-corridor tender
A3006 60077 "The White Knight" in BR green with late crest and unstreamlined non-corridor tender
A3007 60103 "Flying Scotsman" in BR green with late crest and unstreamlined corridor tender

See the full announcement at
www.hattons.co.uk/recordbreakers

Class A4 4-6-2 Pre-order for £750



©Alan Wilson - Flickr

A4001 2509 "Silver Link" in LNER silver with streamlined corridor tender
A4002 4468 "Mallard" in LNER Garter blue with streamlined non-corridor tender (1938 condition)
A4003 4468 "Mallard" in LNER Garter blue with streamlined non-corridor tender (as preserved)
A4004 4489 "Dominion of Canada" in LNER Garter blue with steel numbers/letters and unstreamlined corridor tender
A4005 4464 "Bittern" in LNER Garter blue with streamlined corridor tender
A4006 60007 "Sir Nigel Gresley" in BR express blue with unstreamlined corridor tender
A4007 60012 "Commonwealth of Australia" in BR green with early crest
A4008 60009 "Union of South Africa" in BR green with late crest and unstreamlined corridor tender
A4009 60008 "Dwight D Eisenhower" in BR green with late crest and streamlined non-corridor tender

Gresley Teak coaches Pre-order for £249



TC11501 Diag. 115 Corridor Third in LNER Teak
TC11502 Diag. 115 Corridor Third in LNER Teak
TC11503 Diag. 115 Corridor Third in BR carmine & cream
TC11504 Diag. 115 Corridor Third in BR carmine & cream
TC11505 Diag. 115 Corridor Third in BR maroon
TC11506 Diag. 115 Corridor Third in BR maroon
TC17501 Diag. 175 Brake Corridor Comp. in LNER Teak
TC17502 Diag. 175 Brake Corridor Comp. in LNER Teak
TC17503 Diag. 175 Brake Corridor Comp. in BR carmine & cream
TC17504 Diag. 175 Brake Corridor Comp. in BR carmine & cream
TC17505 Diag. 175 Brake Corridor Comp. in BR maroon
TC17506 Diag. 175 Brake Corridor Comp. in BR maroon
TC18601 Diag. 186 Open Third in LNER Teak
TC18602 Diag. 186 Open Third in LNER Teak
TC18603 Diag. 186 Open Third in BR carmine & cream
TC18604 Diag. 186 Open Third in BR carmine & cream
TC18605 Diag. 186 Open Third in BR maroon
TC18606 Diag. 186 Open Third in BR maroon

Tel: 0151 733 3655 info@hattons.co.uk

17 Montague Road, Widnes, WA8 8FZ

Phones: Mon - Sat 7:30am to 6pm Sun 9am to 5pm

Shop: Mon - Sun 9am to 5pm

15,000+ items available on www.hattons.co.uk

HORNBY

Pre-order at www.hattons.co.uk/hornby2017

TTS Sound Decoders - 8-pin Pre-order for £36



- R8101 Class 31 diesel
- R8102 Class 37 diesel
- R8103 Class 47 diesel
- R8104 Class 60 diesel
- R8105 Class 66/67 diesel
- R8106 Class A3 steam locomotive
- R8107 Class A4 steam locomotive
- R8108 Class A1 steam locomotive
- R8109 Class 6000 'King' steam locomotive
- R8110 Class 4073 'Castle' steam locomotive

AA15 'Toad' 20T Brake Van Pre-order for £19



- R6823 56866 in GWR grey
- R6824 W68571 in BR livery

Class 8P Princess Coronation 4-6-2 Pre-order from £161



- R3509TTS 46235 "City of Birmingham" in BR green - TTS Sound fitted
- R3553 6231 "Duchess of Atholl" in LMS Crimson Lake
- R3555 46256 "Sir William Stanier F.R.S." in BR Maroon

Wainwright Class H 0-4-4T Pre-order for £90



- R3538 308 in South Eastern and Chatham Railway lined green
- R3539 31518 in BR black with late crest
- R3540 1324 in Southern Railway olive green

Hitachi IEP Class 800 Pre-order from £229.50



- R3514 800004 in GWR green (5-car set)
- R3579 800002 in Hitachi Test livery (**SOLD OUT**)

Class 87 Electric Pre-order for £144



- R3580 87035 'Robert Burns' in BR Blue
- R3582 87010 'King Arthur' in Intercity Swallow livery

Mk1 BSO/FO coaches Pre-order for £34



- R4777 BSO brake second open W9353 in BR blue and grey
- R4778 FO first open W3123 in BR blue and grey
- R4788 BSO brake second open E9220 in BR maroon
- R4789 FO first open E3050 in BR maroon

All our exclusive items are available to view and pre-order at www.hattons.co.uk/exclusives

Class 14xx 0-4-2T Pre-order for £99



NOW IN STOCK

- H1401 48xx 4825 in GWR unlined green Great Western
- H1402 58xx 5814 in GWR unlined green Great Western
- H1404 58xx 5808 in GWR unlined green Shirtbutton
- H1406 14xx 1420 in GWR unlined green G W R
- H1408 58xx 5816 in BR lined black BRITISH RAILWAYS
- H1409 14xx 1470 in BR lined black early emblem
- H1410 58xx 5819 in BR unlined black early emblem
- H1413 14xx 1444 in BR lined green early emblem
- H1414 14xx 1450 BR lined green late crest
- H1416 14xx 1409 BR unlined green late crest

Batch 2 - Mar/Apr

- H1403 48xx 4871 in GWR unlined green Shirtbutton
- H1405 48xx 4807 in GWR wartime black G W R
- H1407 58xx 5802 in GWR unlined green G W R
- H1411 58xx 5801 in BR unlined green G W R
- H1412 14xx 1474 in BR unlined black early emblem
- H1415 14xx 1432 BR lined green late crest

www.hattons.co.uk/14xx

50t Warwell Bogie Well Wagon Pre-order from £33 for OO. £85 for O.



Tank available separately

Large variety of liveries, including weathered versions announced.

www.hattons.co.uk/warwell

Beilhack ZZA Snowplough Available in OO only Pre-order for £43 Due in stock Q1 2018



BR, NSE, Railtrack and Network Rail versions announced

www.hattons.co.uk/beilhack

Class 121/122 "Bubble Car" DMU In Partnership with Dapol Pre-order from £129.95



- 4D-009-HAT01 120 in 'GWR 150' Chocolate & Cream livery
- 4D-009-HAT02 121032 in Arriva Trains Wales livery
- 4D-009-HAT03 960011 in Railtrack blue & green livery
- 4D-009-HAT04 121020 in Chiltern blue livery
- 4D-009-HAT05 55033 in Revised Network South East livery
- 4D-009-HAT06 960010 in Railtrack "coaching stock" maroon
- 4D-009-HAT07 55022 in Original Network South East livery
- 4D-015-HAT01 TDB975023 in Route Learning BR blue



www.hattons.co.uk/hattonsbubble

www.hattons.co.uk/preorder

Pre-orders accepted via credit or debit card only
Pre-order prices subject to manufacturer RRP.

Welcome to our project update feature, with the latest status of forthcoming releases from all major manufacturers. Use it to see the progress of projects you are interested in. The web address in the "link" column can be used to view products online, and to place your preorders.

0151 733 3655

**17 Montague Road,
Widnes, WA8 8FZ**

Phone opening times Mon to Sat **7:30am-6pm**
Sun **9am-5pm**
Shop opening times Mon to Sun **9am-5pm**

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
Stanier Mogul 2-6-0	hattons.co.uk/5p4f	£135.96	Mar 2013							
Class 450	hattons.co.uk/cl450	from £271.96	Mar 2015							
LNWR Webb coal tank 0-6-2T	hattons.co.uk/wct	£101.96	Sep 2014							
SECR Birdcage Coaches	hattons.co.uk/bc	£55.21	Mar 2014							
Class H2 Atlantic 4-4-2	hattons.co.uk/h2atlantic	£152.96	Mar 2013							
Warflat Bogle Fiat wagon	hattons.co.uk/warflat	£42.46	Mar 2013							
Baldwin Class 10-12-D 4-6-0	hattons.co.uk/baldwin460	£123.21	Jul 2014							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
Class 68	hattons.co.uk/c68	£123.72	April 2014							
Class 121/122	hattons.co.uk/dapolbubble	£123.25	Dec 2012							
GWR Streamlined Railcar	hattons.co.uk/gwrrc	from £119.43	Jul 2014							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
Class 14xx 0-4-2T	hattons.co.uk/14xx	£99	Sep 2014							
Golden Arrow Class 71s	hattons.co.uk/goldenarrow	£139.95	Jun 2016							
Class 6000 King 4-6-0	hattons.co.uk/king	TBA	Aug 2014							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
Class 1366 0-6-0PT	hattons.co.uk/1361	£124	Nov 2013							
Class 47xx 'Night Owl' 2-8-0	hattons.co.uk/47xx	£154	Nov 2014							
Class 07 Shunter	hattons.co.uk/cl07	£99 (EST)	Jan 2016							
Hatton's O Gauge Class A3/A4	hattons.co.uk/recordbreakers	£750	Aug 2016							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
W4 Peckett 0-4-0ST	hattons.co.uk/peckett	£81	Oct 2015							
Merchant Navy 4-6-2	hattons.co.uk/mn	from £153	Mar 2015							
Mk1 FO & BSO	hattons.co.uk/hornbymk1	£31.50	Oct 2016							
Class H Wainwright 0-4-4T	hattons.co.uk/hclass	from £90	Sep 2016							
Class 8P Princess Coronation 4-6-2	hattons.co.uk/duchess	from £171	Nov 2016							
Hitachi IEP Class 800	hattons.co.uk/IEP800	from £229.50	Nov 2016							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
Class 2301 Dean Goods 0-6-0	hattons.co.uk/oxdg	£95	Jan 2016							
YEC Janus 0-6-0 Shunter	hattons.co.uk/janus	£74	Nov 2015							
60' Carflat Car Carrying Wagon	hattons.co.uk/oxcarflat	£25	May 2016							
Mk3 Coaches	hattons.co.uk/oxmk3	£29	Jan 2016							

 Shows the stage the project is at based on the information available to us. CAD: Computer Aided Design. 1st EP: First Engineering Prototype. TBC: Price is yet To Be Confirmed (EST): Price is estimated.

You can view extended lists, preorder & comment on all of these projects at

www.hattons.co.uk/projectupdates

Information correct at the time of going to press on 16/03/17.



17 Montague Road, Widnes, WA8 8FZ
T: 0151 733 3655 E: info@hattons.co.uk

Est. 1946

OO Gauge (1:76 Scale)

Steam locos



J9404 Austerity 0-6-0ST 1763 in NCB Peckfield Colliery lined maroon chevrons - very heavily weathered - Lid Ed of 200 (DJ) £39
R3292 Class 0F Pug 0-4-0ST 5801 in BR black - Hornby 2014 Collectors Club special edition (Hor) £17



31-933 Class 1000 Midland Compound 4-4-0 41157 in BR lined black late crest (Bac) (list £139.95) BARGAIN... £79
1304 Class 1361 0-6-0ST 1363 in BR black late crest (Hor) £124



1301 Class 1361 0-6-0ST 1363 in GWR green shirtbutton emblem (Hel) £124



1302 Class 1361 0-6-0ST 1364 in GWR green (Hel) £124



1303 Class 1361 0-6-0ST 1365 in BR black early emblem (Hel) £124
1320 Class 1366 0-6-0PT 1366 in GWR green shirtbutton (Hel) £124



1323 Class 1366 0-6-0PT 1367 in BR black early emblem (Hel) £124



1324 Class 1366 0-6-0PT 1368 in BR black late crest (Hel) £124



1321 Class 1366 0-6-0PT 1369 in Great Western green - as preserved (Hel) £124



1322 Class 1366 0-6-0PT 1370 in GWR green (Hel) £124



H1416 Class 14xx 0-4-2T 1409 in BR Unlined green late crest (DJ) £99



H1409 Class 14xx 0-4-2T 1470 in BR Lined black early emblem (DJ) £99
31-433 Class 1F 'Half-Cab' 0-6-0T 1739 in LMS black (Bac) £81.56



31-440 Class 2MT Ivatt 2-6-2T 41243 in BR lined black early emblem (Bac) £110.46



R3459TTS Class 2P Fowler 4-4-0 40626 in BR Black early emblem - TTS sound fitted (Hor) (list £154.99) BARGAIN £105
31-127 Class 30xx 2-8-0 ROD 3023 in BR black early emblem (Bac) (list £129.95) BARGAIN £80



R3277 Class 38xx 4-4-0 'County Of Devon' in Great Western Railway green - Railroad range (Hor) (list £89.99) BARGAIN £60
32-2278 Class 3F Fowler Jinty 0-6-0 tank 7341 in LMS black (Bac) £72.21
R3334 Class 415 Adams Radial 4-4-2T 30582 in BR black late crest (Hor) (list £119.99) BARGAIN £82



R3333 Class 415 Adams Radial 4-4-2T 30584 in BR black early emblem (Hor) (list £119.99) BARGAIN £82
R3462 Class 42xx 2-8-0 4287 BR Black early emblem (Hor) (list £139.99) BARGAIN £83



32-131 Class 45xx 2-6-2 Prairie tank 4539 in Great Western green (Bac) £84.96



R3499 Class 49xx 4-6-0 6947 'Helmingsham Hall' in BR Green late crest - Railroad Range (Hor) £75



R3313 Class 4F 0-6-0 4323 in LMS Black (Hor) (list £99.99) BARGAIN £58



R3460TTS Class 4F 0-6-0 44198 in BR Black late crest - TTS sound fitted (Hor) (list £139.99) BARGAIN £100



R3314 Class 4F 0-6-0 44341 in BR Black early crest (Hor) (list £99.99) BARGAIN £58



32-881 Class 4MT Fairburn 2-6-4 tank 42105 BR lined black early emblem - weathered (Bac) £110.46
32-580A Class 4MT Ivatt 2-6-0 43014 BR black late crest - weathered (Bac) £127.46



R3276 Class 4P Compound 4-4-0 1072 in LMS Black Fowler tender - Railroad range (Hor) (list £84.99) BARGAIN £45
31-170 Class 5 LAYR 2-4-2T 50764 BRITISH RAILWAYS lined black (Bac) £93.45
R3463 Class 52xx 2-8-0 5231 BR Black early emblem (Hor) (list £139.99) BARGAIN £83



H1402 Class 58xx 0-4-2T 5814 in GWR Unlined green Great Western lettering - Lightly weathered (DJ) NEW £99



H1408 Class 58xx 0-4-2T 5816 in BR Lined black BRITISH RAILWAYS (Gill Sans) (DJ) £99



H1410 Class 58xx 0-4-2T 5819 in BR Unlined black early emblem (DJ) £99



32-178A Class 5MT Crab 2-6-0 13174 in LMS lined black (Bac) £123.21



32-176 Class 5MT Crab 2-6-0 42765 in BR lined black early emblem (Bac) £123.21



31-690 Class 5P4F Stanier Mogul 2-6-0 2965 in LMS lined black (Bac) £135.96



31-691 Class 5P4F Stanier Mogul 2-6-0 42969 in BR lined black early emblem (Bac) NEW £135.96



R3409 Class 6000 King 4-6-0 6002 'King William IV' in BR Green late crest (Hor) (list £181.99) BARGAIN £109



31-638 Class 64xx 0-6-0PT pannier tank 6419 in BR lined green late crest - weathered (Bac) £90.05



31-635A Class 64xx 0-6-0PT pannier tank 6424 in GWR green (Bac) £81.55



R3420 Class 700 0-6-0 30346 in BR Black late crest (Hor) (list £124.99) BARGAIN £72



R3468 Class 7P6F Rebuilt Battle of Britain 4-6-2 34077 '603 Squadron' in BR Lined Green late crest (Hor) £144.50



R3288 Class 9F 2-10-0 92220 'Evening Star' in BR Green late crest (Hor) £89



R3086 Class A1 4-6-2 4472 'Flying Scotsman' in LNER apple green - Railroad Range (Hor) (list £94.99) BARGAIN £55



R3289TTS Class A1 4-6-2 4472 'Flying Scotsman' in LNER Green TTS Sound - Railroad range (Hor) (list £119.99) BARGAIN £25



R3060 Class A1 4-6-2 60163 'Tornado' in British Railways Apple Green (Railroad Range) (Hor) (list £99.99) BARGAIN £58
32-961 Class A1 60122 4-6-2 'Curlew' BR express blue early emblem (Bac) £152.96
R3250 Class A3 4-6-2 4472 'Flying Scotsman' in LNER apple green - 1984 condition - Lid Ed of 500 (Hor) (list £135) BARGAIN £115



R3336 Class A3 4-6-2 4472 'Flying Scotsman' in LNER Green - NRM Special Edition (Hor) (list £169.99) BARGAIN £124



R3312 Class A3 4-6-2 60062 'Minoru' in BR Green early emblem (Hor) (list £154.99) BARGAIN £94



R3395TTS Class A4 4-6-2 4468 'Mallard' in LNER Garter Blue - TTS sound fitted - Railroad Range (Hor) (list £132.99) BARGAIN £85



R3285TTS Class A4 4-6-2 4469 'Gadwall' in LNER Garter Blue TTS Sound - Railroad range (Hor) (list £99.99) BARGAIN £70
R3338 Class B1 4-6-0 61310 BR Apple Green (Hor) (list £155.99) BARGAIN £87



R3432 Class B12/3 4-6-0 61580 in BR black late crest (Hor) £136
R3430 Class B12/3 4-6-0 6573 in LNER apple green (Hor) £136
R3447 Class B17 4-6-0 2842 'Kilverstone Hall' in LNER Lined Apple Green (Hor) (list £159.99) BARGAIN £99
R3004 Class B17 4-6-0 61831 'Sorbey Hall' in BR Green early emblem - weathered (Hor) (list £131.99) BARGAIN £79



R3318 Class B17/6 4-6-0 61646 'Gillwell Park' in BR Green early emblem (Hor) (list £131.99) BARGAIN £74



R3495 Class D49/1 4-4-0 62760 'The Cotswold' in BR early crest - Railroad Range (Hor) £66



35-076 Class E4 Brighton tank 0-6-2 32500 in BR black late crest (Bac) (list £109.95) BARGAIN £80
31-481 Class G2A Super D 0-8-0 49106 BR black early emblem - weathered (Bac) £111.45



35-076 Class E4 Brighton tank 0-6-2 32500 in BR black late crest (Bac) (list £109.95) BARGAIN £80



31-318A Class J11 0-6-0 5954 in LNER black (Bac) NEW £127.46



31-321DS Class J11 0-6-0 64377 in BR black early emblem - weathered and DCC sound fitted (Bac) NEW £203.96



R3415 Class J15 0-6-0 65477 in BR Black early emblem (Hor) (list £126.49) BARGAIN £75



OOJ94-002 Class J94 Austerity 0-6-0ST 68061 in 'British Railways' black original bunker (DJ) NEW £82



OOJ94-005 Class J94 Austerity 0-6-0ST 68068 in 'British Railways' black tall bunker (DJ) NEW £82



OOJ94-004 Class J94 Austerity 0-6-0ST 8023 in LNER black original bunker (DJ) NEW £82



UK P&P £4 per order
£2 per single diecast item
£7 guaranteed Next Day delivery
 (Orders before 2pm)

Train packs

NEW



OOJ94-003 Class J94 Austerity 0-6-0ST 8064 in LNER black original bunker (DJ) **NEW**.....£82



R3242A Class K1 2-6-0 62032 in BR Black early emblem (Hor) (list £129.99).....£82



R3461 Class L1 Thompson 2-6-4T 67702 in LNER apple green BR number (Hor) (list £154.99).....£89



R3440 Class P2 2-8-2 2001 'Cock O' The North' in LNER apple green - gloss finish (Hor).....£122.50



R3171 Class P2 2-8-2 2001 'Cock O' The North' in LNER Green (Railroad range) (Hor) (list £134.99).....£68



R3424 Class C6 Raven 0-8-0 3418 in LNER Black Gilt Sans lettering (Hor) (list £154.99).....£105



R3426 Class C6 Raven 0-8-0 63429 in BR Black late crest (Hor) (list £154.99).....£105



R3425 Class C6 Raven 0-8-0 63443 in BR Black early crest (Hor) (list £154.99).....£105



R3457 Class T9 4-4-0 116 in Southern Railway olive green (Hor) (list £149.99).....£104



R3311 Class V Schools 4-4-0 30908 'Westminster' in BR Green early crest (Hor) (list £134.99).....£84



R3279 County Class 4-6-0 1018 'County Of Hants' in BR Green early crest - Railroad range (Hor).....£69.50



31-118 Standard Class 4MT 4-6-0 75035 BR black late crest - weathered (Bac).....£135.96



R3500 The Sir Nigel Gresley Collection (Hor).....£480



R9292 Thomas and Friends - 4-6-2 No.3 Henry the green engine (Hor) (list £98.99).....£65



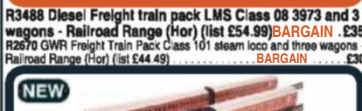
R3299 'Going Home' train pack - 70th Anniversary of the end of WWII Black 5 4-6-0 5156 in LMS Black and 3 x LMS Period 3 Coaches - Ltd Ed (Hor) (list £289.99).....£150



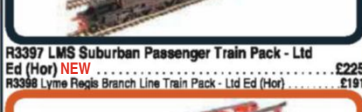
30-425 Class 251 Midland Pullman train pack in Pullman nanking blue - Collectors Edition (Bac).....£490



R3488 Diesel Freight train pack LMS Class 08 3973 and 3 wagons - Railroad Range (Hor) (list £54.99).....£35



R2670 GWR Freight Train Pack Class 101 steam loco and three wagons - Railroad Range (Hor) (list £44.49).....£30



R3397 LMS Suburban Passenger Train Pack - Ltd Ed (Hor) **NEW**.....£225



R3398 Lyme Regis Branch Line Train Pack - Ltd Ed (Hor).....£191



R3501 Virgin Trains East Coast train pack Class 91 91124 & Mk4 DVT 82219 in VTEC - Ltd Ed of 1000 (Hor) (list £229.99).....£145



R3300 Winston Churchill's Funeral Train Pack Battle of Britain class 4-6-2 34051 'Winston Churchill' in BR green late crest, 2 Pullman coaches & SR Baggage car - Ltd Ed (Hor).....£222.21



10001 HAP 10001 BR Brunswick green orange, black & orange lining, Aug 1956 - Oct 1957, (Dap) (list £105).....£94



R3055 Class 06 Shunter 06008 in BR blue (Railroad Range) (Hor) (list £32.99).....£19



R3485 Class 08 shunter 08644 'Laura Diesel Depot' in BR blue (Hor) **NEW**.....£118



32-115B Class 08 Shunter 08818 BR Blue Wasp Stripes (weathered) (Bac).....£93.46



32-120 Class 08 Shunter 13287 in BR Plain Green Early Emblem (Bac).....£84.96



R3484 Class 08 shunter 13363 in BR green red con rods (Hor) **NEW**.....£118

1603 Class 16 North British Type 1 D8407 in BR green with full yellow ends - Ltd Ed of 750 (Hel) (list £134.95) BARGAIN.....£72



1720 Class 17 D8594 in green small yellow panels (Hel).....£94



2660 Class 26/0 diesel D5300 in BR green semi gloss finish (Hel) (list £119.95).....£59



2661 Class 26/0 diesel D5301 in BR green (Hel) (list £119.95).....£61



2664 Class 26/0 diesel D5302 in BR green small yellow panels (Hel) (list £119.95).....£61



2662 Class 26/0 diesel D5309 in BR green (Hel) (list £119.95).....£61



2665 Class 26/0 diesel D5312 in BR green - weathered (Hel) (list £129.95).....£65



2663 Class 26/0 diesel D5317 in BR green small yellow panels (Hel) (list £119.95).....£61



32-76DS Class 37/0 37254 in BR Departmental Civil Link Dutch Livery (Weathered & DCC Sound Fitted) (Bac).....£203.96



32-377A Class 37/4 37401 'Mary Queen Of Scots' in BR large logo blue (Bac) **NEW**.....£117.26



32-390 Class 37/7 37706 'Conidae' in Railfreight Petroleum (Bac).....£101.96



32-391DS Class 37/7 37796 Railfreight coal sector (DCC Sound Fitted) (Bac).....£203.96



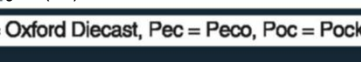
R3392TTS Class 40 40164 in BR blue - TTS sound fitted - Railroad Range (Hor) (list £99.99).....£74



32-483 Class 40 D338 in BR Green small yellow panel (Bac).....£118.96



R3491 Class 42 Warship D805 'Benbow' in BR green - Railroad Range (Hor) (list £64.99).....£39



32-069 Class 43 Warship D841 'Roebuck' in BR green (Bac).....£127.46

31-656 Class 47/0 47256 BR Green Full Yellow Ends - weathered (Bac).....£127.46



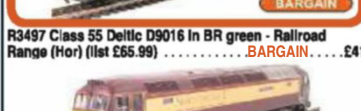
R3471 Class 50 50026 'Indomitable' in original Network SouthEast (Hor).....£145



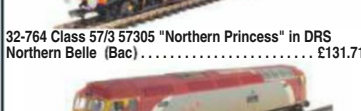
40-003-012 Class 52 diesel loco D1026 'Western Centurion' in BR blue full yellow ends - weathered (Dap).....£113



5311 Class 53 D0280 'Falcon' in BR two tone green - Ltd Ed (Hel).....£125



32-533 Class 55 Deltic D9001 'St. Paddy' in BR green full yellow ends - weathered (Bac).....£135.96



R3497 Class 55 Deltic D9016 in BR green - Railroad Range (Hor) (list £65.99).....£41



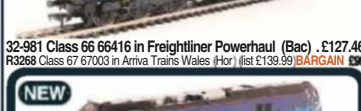
32-764 Class 57/3 57305 'Northern Princess' in DRS Northern Belle (Bac).....£131.71



32-762DS Class 57/3 57312 'The Hood' in Virgin Trains Livery (Weathered & DCC Sound Fitted) (Bac).....£203.96



32-756 Class 57/6 57603 'Tintagel Castle' in GWR (2015) green (Bac).....£131.71



R3486 Class 66 66185 'DP World London Gateway' in DB Schenker (Hor) (list £98.99).....£59



32-981 Class 66 66416 in Freightliner Powerhaul (Bac).....£127.46



R3268 Class 67 67003 in Arriva Trains Wales (Hor) (list £139.99).....£99



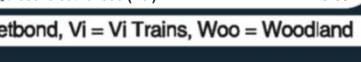
40-022-005 Class 68 68006 'Daring' in Scotrail (Dap) **NEW**.....£123.72



40-022-005D Class 68 68006 'Daring' Scotrail - DCC Fitted (Dap) **NEW**.....£143.17



40-022-006 Class 68 68007 'Valiant' in Scotrail (Dap) **NEW**.....£123.72



40-022-006D Class 68 68007 'Valiant' Scotrail - DCC Fitted (Dap) **NEW**.....£143.17

40-022-003 Class 68 68010 in Chiltern Railways (Dap) **NEW**.....£123.72

40-022-003D Class 68 68010 Chiltern Railways - DCC Fitted (Dap) **NEW**.....£143.17

40-022-003S Class 68 68010 Chiltern Railways - DCC Sound fitted (Dap) **NEW**.....£247.48

40-022-004 Class 68 68014 in Chiltern Railways (Dap) **NEW**.....£123.72

40-022-004D Class 68 68014 Chiltern Railways - DCC Fitted (Dap) **NEW**.....£143.17

4000 Hawker Siddeley Brush HS4000 'Kestrel' prototype diesel electric loco (Hel).....£150

Visit

www.hattons.co.uk/new

for all new releases



32-991 Type 27 Wickham Trolley and trailer B30W in BR Maroon (Bac) £67.96



32-993 Type 27 Wickham Trolley and trailer MPP0007 in BR engineers yellow wasp stripes (Bac) £67.96

Electric locos

7602 Class 76 EM1 Woodhead electric E26049 in BR blue - Ltd Ed for Olivias Trains (Hel) £160
7703 Class 77 EM2 Woodhead electric 27002 "Aurora" in BR black - Ltd Ed for Olivias Trains (Hel) £165
7702 Class 77 EM2 Woodhead electric 27004 "Juno" in BR electric blue - Ltd Ed for Olivias Trains (Hel) £165
7705 Class 77 EM2 Woodhead electric E27003 "Diana" in BR green half yellow panels - Ltd Ed for Olivias Trains (Hel) £165



7706 Class 77 EM2 Woodhead electric E27006 "Pandora" in BR electric blue - Ltd Ed for Olivias Trains (Hel) £165
31-677 Class 85 (AL5) Bo-Bo Electric E3056 in BR blue single pantograph (Bac) (list £139.95) BARGAIN £79



R3350 Class 90 90029 in DB Schenker (Hor) (list £69.99) BARGAIN £49
9009 Metropolitan Bo-Bo electric 12 "Sarah Siddons" in London Transport/Metropolitan (1990s preserved condition) (Hel) £108
9008 Metropolitan Bo-Bo electric 12 "Sarah Siddons" in Metropolitan (As currently preserved) (Hel) £108

HSTs



R3390TTS Pair of Class 43 HST Power Cars in Virgin Trains East Coast - TTS sound fitted (Hor) (list £279.99) BARGAIN £165

DMUs



32-290DS Class 101 2 car DMU in Network SouthEast with passenger figures and DCC sound (Bac) £229.46



31-535 Class 105 Cravens 2 Car DMU in BR blue full yellow ends (Power Twin Unit) (Bac) (list £119.95) BARGAIN £78



32-905 Class 108 2-car DMU in BR blue & grey full yellow ends (Bac) (list £139.95) BARGAIN £72.50
8923 Class 128 DPU W55991 Royal Mail Letters red (Hel) (list £119.95) BARGAIN £59
8922 Class 128 DPU W55992 in BR blue yellow ends & no branding "Scooby Doo" - weathered (Hel) (list £129.95) BARGAIN £59
R3477 Class 153 153321 in Regional Railways (Hor) £38

EMUs



R3340 Class 2-HAL 2 Car EMU 2603 in BR green full yellow ends (Hor) (list £130.25) BARGAIN £62



R3341A Class 2-HAL 2623 2 car EMU in BR blue (Hor) (list £149.99) BARGAIN £62



31-030 Class 350/1 Desiro 4 Car EMU 350 111 "Apollo" in Silver Link (unbranded) (Bac) (list £189.95) BARGAIN £99.50



R3215 Class 373 Eurostar 4 car EMU in new (post-2014) Eurostar (Hor) (list £169.99) BARGAIN £94



31-266 Class 419 Motor Luggage Van (MLV) in BR Southern Region green yellow panel (Bac) (list £104.95) BARGAIN £54

Track Maintenance vehicles



B800 Non-motorised OO Track Cleaner motorised cleaning heads & vacuum in blue (Dap) £58

Train sets - analogue



R1183 "Master of the Glens" Train Set Class P2 2-8-2 "Cook O' The North" in LNER green and three LNER teak coaches (Hor) (list £184.99) BARGAIN £110



R1151 Caledonian Belle trainset 0-4-0 steam loco in blue 4 wheel coach & open wagon (Hor) (list £49.99) BARGAIN £35



R1155 Pendolino trainset Class 390 390004 in Virgin Trains "Alstom Pendolino" branding (Hor) £150



R9283 Thomas the Tank Engine starter Train Set (Hor) (list £64.99) BARGAIN £45

Train sets - DCC



R1172 e-Link Majestic train set A1 Pacific Peppercorn Class in Experimental blue & BR Class 47 (Hor) (list £299.99) BARGAIN £230



R1126 Mixed Freight DCC digital train set Class 08 0-6-0 BR diesel electric loco, steam loco & 4 wagons (Hor) £165



R1125 Somerset Belle train set Class 3F 0-6-0 S&DJR 0-6-0 steam loco & 3 wagons - DCC control (Hor) (list £199.99) BARGAIN £115

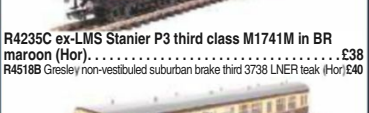


30-049 The Permanent Way DCC train set Digital Sound (Bac) £233.70

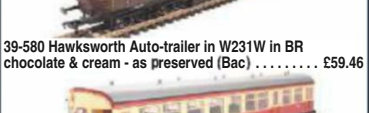


R1184 Western Express digital train set eLink TTS sound Hall steam loco (Hor) (list £329.99) BARGAIN £199

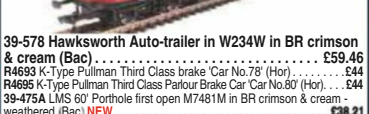
Coaches



39-576 BR Hawksworth Auto Trailer Maroon (Bac) £58.61
39-200C BR Mk1 Super BG Full Brake RES - Weathered (Bac) (list £39.95) BARGAIN £18



R4235C ex-LMS Stanier P3 third class M1741M in BR maroon (Hor) £38
R4518B Gresley non-vestibled suburban brake third 3738 LNER teak (Hor) £40



39-580 Hawksworth Auto-trailer in W231W in BR chocolate & cream - as preserved (Bac) £59.46



39-578 Hawksworth Auto-trailer in W234W in BR crimson & cream (Bac) £59.46
R4693 K-Type Pullman Third Class brake "Car No.78" (Hor) £44
R4695 K-Type Pullman Third Class Parlor Brake Car "Car No.80" (Hor) £44
39-475A LMS 60' Porthole first open M7481M in BR crimson & cream - weathered (Bac) NEW £38.21



R4534D Maunsell push-pull coach pack Set 619 in BR green (Hor) £70



39-273 Mk1 GUV General Utility Van S86724 in BR green (Bac) £33.96



39-282 Mk1 Pullman FK first kitchen "Robin" in umber & cream - lights (Bac) NEW £59.46
39-282 Mk1 Pullman PP first parlour "Pond" umber & cream - lighting (Bac) NEW £59.46



39-056A Mk1 TSO tourist second open 4854 in Regional Railways - weathered passenger figures (Bac) NEW £46.71
R48124 Mk2E BSO brake second open M5495 in BR blue & grey - lights (Hor) (list £29.99) BARGAIN £19
R4655 Mk2 DVT driving van trailer 82146 in DB Schenker silver (Hor) (list £42.99) BARGAIN £28



39-005 Pack of Mk2A TSO & Class 101 DTCL "Highlander Pack" in Kyle Line green and cream passenger figures (Bac) £118.96



39-003 Pack of two Mk1 coaches in BR blue & grey Network SouthEast branding and passenger figures (Bac) NEW £89.21



39-004 Pack of two Mk1 coaches in BR blue & grey ScotRail branding and passenger figures (Bac) NEW £89.21



R4683 Pullman First Class Kitchen Car - K-Type Pullman Car (Hor) (list £49.99) BARGAIN £33
R4738 Pullman first class Parlor Car "Mineral" Pullman umber & cream (Hor) NEW £47



R4664 Pullman First Class Parlor Car - K-Type Pullman Car (Hor) (list £49.99) BARGAIN £33
R4742 Pullman Third Class Brake Car "Car No.162" (Hor) NEW £48.50
R4741 Pullman Third Class Kitchen Car "Car No.58" (Hor) NEW £49.50
R4660 Pullman Third Class Kitchen Car - K-Type Pullman Car (Hor) (list £49.99) BARGAIN £33



R4739 Pullman Third Class Parlor Car "Car No.34" in Pullman umber & cream (Hor) NEW £47
R4661 Pullman Third Class Parlor Car "Car No.58" (Hor) NEW £49.50
39-525A SR PLV luggage van 1061 Southern Railway olive green (Bac) £25.46



39-530 SR PMV parcels van S1151S in BR green black ends (Bac) £25.46



R4574A Thompson non-corridor brake third 87019 in LNER teak (Hor) NEW £38
R4572A Thompson non-corridor composite 88426 in LNER teak (Hor) NEW £38



R4573A Thompson non-corridor third class 82646 in LNER teak (Hor) NEW £38

Wagons



38-076C 12T Southern ventilated van in BR bauxite (Bac) NEW £13.56
38-076D 12T Southern ventilated van in Southern Railway brown (Bac) NEW £13.56
37-228H 16 Ton steel mineral wagon top flap doors BR grey - weathered (Bac) £14.04



1150 4-wheel A tank 3274 in Esso silver Esso Petroleum lettering (Hel) NEW £20.50
1150 Pack of 4 (Hel) (list £99.80) NEW BARGAIN £78
1151 4-wheel A tank 4021 Esso grey Esso Petroleum lettering (Hel) NEW £20.50
1151 Pack of 4 (Hel) (list £99.80) NEW BARGAIN £78



1152 4-wheel A tank 4089 in Esso grey Esso logo (Hel) NEW £20.50
1152 Pack of 4 (Hel) (list £99.80) NEW BARGAIN £78
1151 4-wheel A tank 4021 Esso grey Esso Petroleum lettering (Hel) NEW £20.50
1151 Pack of 4 (Hel) (list £99.80) NEW BARGAIN £78



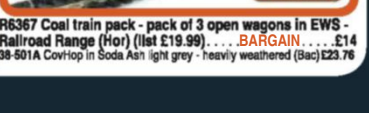
1154 4-wheel A tank 44290 in Esso grey 1980s Hazchem symbols - weathered (Hel) NEW £20.50
1154 Pack of 4 (Hel) (list £99.80) NEW BARGAIN £78



4F-018-017 4-wheel salt van "Distiller's Co" (Dap) NEW £9.50
4F-051-049 5-plank open wagon "D Balantyne" (Dap) NEW £9.50
37-209 8 plank wagon coke rails in BR (Bac) £13.56



R6783 BR 20 Ton Coke Hopper Wagons - Three Wagon Pack (Hor) £49.49



R6367 Coal train pack - pack of 3 open wagons in EWS - Railroad Range (Hor) (list £19.99) BARGAIN £14
38-501A Covtop in Soda Ash light grey - heavily weathered (Bac) £23.76

Visit

www.hattons.co.uk/preorder

for all forthcoming releases



2S-011-001D Class A1 4-6-2 4472 'Flying Scotsman' in LNER apple green livery four Gresley teak coaches - DCC and light bars fitted (Dap) £220.64



2S-011-001 Class A1 4-6-2 4472 'Flying Scotsman' in LNER apple green livery four Gresley teak coaches - light bars fitted (Dap) ... £198.90
2S-011-004 Class A3 4-6-2 60103 'Flying Scotsman' in BR green early emblem four Gresley teak coaches in crimson & cream liver (Dap) ... £198.90
2S-011-004D Class A3 4-6-2 60103 'Flying Scotsman' in BR green early emblem four Gresley teak coaches in crimson & cream liver (Dap) ... £220.64

Diesel locos

371-166 Class 37/4 37406 'The Salford Society' Railfreight Distribution (Gra) £89.21



371-650A Class 57/3 57306 'Jeff Tracy' in Virgin livery (Gra) NEW ... £106.21



371-635 Class 70 PowerHaul 70006 Freightliner (Gra) (list £119.95) ... BARGAIN ... £82.50

DMUs

371-504 Class 101 2-car DMU in BR green small yellow panel (Gra) ... £144.46



371-876DS Class 108 2 Car DMU in BR blue - DCC sound fitted (Gra) ... £229.46

EMUs



371-702 Class 350/1 Desiro 4 Car EMU 350 101 in London Midland (Gra) (list £169.95) ... BARGAIN ... £99

Train sets - analogue



370-130 'The Night Mail' train set Class 47 and Mk1 post coaches (Gra) ... £169.96

Coaches

374-718A BR Mk2A TSO Tourist Second Open in blue & grey (Gra) ... £25.46



374-610 Hawksworth Auto Trailer in BR crimson and cream (Gra) NEW ... £29.71



374-612 Hawksworth Auto-Trailer in BR crimson (Gra) NEW ... £29.71



374-611 Hawksworth Auto-Trailer in BR maroon (Gra) NEW ... £29.71

Wagons

377-957 13T high sided steel wagon smooth sides and wooden door in BR grey (Gra) NEW ... £13.56
377-954A 13T high sided steel wagon smooth sides and wooden door in LNER grey (Gra) NEW ... £13.56
2F-013-049 4 wheel gunpowder van 299035 in LMS grey (Dap) NEW ... £3.50
373-785 Triple pack TTA 45 Tonne tank wagon - weathered (Gra) ... £34

Lighting equipment

NC040b Light Bar coach lighting unit for older coaches (Yellow) (Dap) £8

Spares



SL-310 Rail Joiners/Fishplates for N & OO9 gauge (24 per pack) (Pec) ... £2

Track - Code 80 Setrack

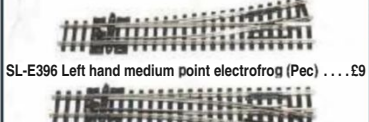
ST-11 Double straight track (Pec) ... £1.50
ST-6 Setrack left hand point insulating (Pec) ... £8.50
ST-4 Setrack right hand point insulating (Pec) ... £8.50

Track - Code 80 Streamline



SL-300 Pack of 25 1 yard (91.5cm) length of Wooden-Sleeper Nickel Silver Flexible track (Pec) ... £84

SL-300 Single (Pec) ... £2



SL-E396 Left hand medium point electrofrog (Pec) ... £9



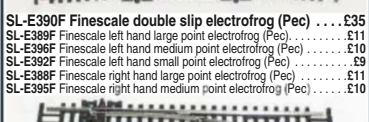
SL-E395 Right hand medium point electrofrog (Pec) ... £9

Track - Code 55 Finescale



SL-300F Pack of 30 1 yard (91.5cm) length of Finescale Nickel Silver flexible Wooden Sleeper track (Pec) ... £84

SL-300F Single (Pec) ... £2



SL-E399F 3-way finescale turnout (Pec) ... £26



SL-E390F Finescale double slip electrofrog (Pec) ... £35

SL-E389F Finescale left hand large point electrofrog (Pec) ... £11

SL-E396F Finescale left hand medium point electrofrog (Pec) ... £10

SL-E392F Finescale left hand small point electrofrog (Pec) ... £9

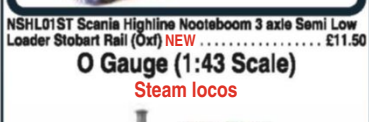
SL-E388F Finescale right hand large point electrofrog (Pec) ... £11

SL-E395F Finescale right hand medium point electrofrog (Pec) ... £10

SL-E391F Finescale right hand small point electrofrog (Pec) ... £9

SL-E383F Finescale scissors crossover electrofrog (Pec) ... £58

Buses



NMR002 New Routemaster Go Ahead London Central (Oxt) NEW ... £7

Commercial vehicles



NSHL01ST Scania Highline Nootboom 3 axle Semi Low Loader Stobart Rail (Oxt) NEW ... £11.50

O Gauge (1:43 Scale)

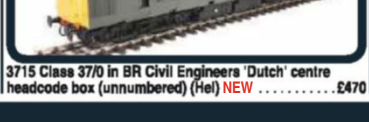
Steam locos



7S-010-011 Class A1X Terrier 0-6-0T 32636 in BR black late crest (Dap) ... £191.25

7S-010-011D Class A1X Terrier 0-6-0T 32636 in BR black late crest - DCC Sound Fitted (Dap) ... £349

Diesel locos



7D-008-002 Class 08 shunter D3045 in BR blue wasp stripes (Dap) ... £199.95

7D-008-000U Class 08 shunter in BR green late crest and no yellow warning panels - Unnumbered (Dap) ... £199.95

2551 Class 25/1 in BR green small yellow warning panels (unnumbered) (Hel) ... £470



3716 Class 37/0 in BR Railfreight coal sector triple grey centre headcode box (unnumbered) (Hel) NEW ... £470

3714 Class 37/0 in BR Railfreight red stripe centre headcode box (unnumbered) (Hel) NEW ... £470

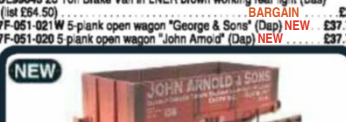
3717 Class 37/0 in BR Railfreight speedlink sector triple grey centre headcode box (unnumbered) (Hel) NEW ... £470

Coaches



4913 BR Mk1 SO 2nd open in chocolate & cream (Hel) £250

Wagons



7F-051-020W 5-plank open wagon 'John Arnold' - weathered (Dap) NEW ... £37.75

7F-051-025 5-plank open wagon 24380 in LMS (Dap) NEW ... £37.75

7F-071-034 7-plank open wagon P73150 in BR (Dap) NEW ... £37.75

7F-071-034W 7-plank open wagon P73150 BR - weathered (Dap) NEW ... £37.75

7F-071-034W 7-plank open wagon P73150 BR - weathered (Dap) NEW ... £37.75



SL-700BH Box of 12 1 Yard O Gauge Flexible Nickel Silver Track (Bullhead Nickel Silver Rail) (Pec) ... £73

SL-700BH Single (Pec) ... £6.50



SL-E792BH Left hand point bullhead rail and electrofrog (Pec) ... £39

SL-E791BH Right hand point bullhead rail and electrofrog (Pec) ... £39

SL-E797BH Y Point bullhead rail & electrofrog (Pec) ... £41

Cars



43RR001 Rolls Royce Corniche Conv. (Open) Indigo Blue (Oxt) ... £22

43VA003 Volvo Amazon Blue Green (Oxt) NEW ... £19

Any or Multiple Scales

Analogue controllers



COMBI Combi 12v 1Amp Single Track Controller Transformer (Gau) ... £30

D Double/Twin track power controller (Gau) ... £69

Q Quadripole 4 circuit power controller (Gau) ... £130

Analogue point control

CDU Capacitor Discharge Unit (Gau) ... £11

PLS-100 SmartSwitch Set for 4 servo control & operation, switches, control board & digital readout for Analogue operation (Pec) ... £54

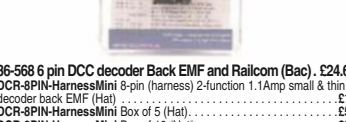
DCC decoders



DCR-21PIN-Direct Box of 10 21-pin 4-function 1.1Amp direct plug decoder back EMF (Hat) ... £110

DCR-21PIN-Direct Single (Hat) ... £12

DCR-21PIN-Direct Box of 5 (Hat) ... £57



36-568 6 pin DCC decoder Back EMF and Railcom (Bac) ... £24.60

DCR-8PIN-HarnessMini 8-pin (harness) 2-function 1.1Amp small & thin decoder back EMF (Hat) ... £11

DCR-8PIN-HarnessMini Box of 5 (Hat) ... £50

DCR-8PIN-HarnessMini Box of 10 (Hat) ... £99



DCR-8PIN-Harness Box of 10 8-pin (harness) 4-function 1.1Amp decoder back EMF (Hat) ... £94

DCR-8PIN-Harness Single (Hat) ... £10

DCR-8PIN-Harness Box of 5 (Hat) ... £48

DCR-8PIN-Direct 8-pin compact direct 4-function 1.1Amp decoder back EMF (Hat) ... £13
DCR-8PIN-Direct Box of 5 (Hat) ... £59
DCR-8PIN-Direct Box of 10 (Hat) ... £105
DCC28 OMNI 6 Pin Decoder Harness (Gau) ... £17.50

DCC accessory decoders

DCD-ADSBFX COBALT 8 output Accessory Decoder for all Solenoids and other point motors needing momentary power (DCC) ... £56

DCC controllers



36-504RC Dynamis Ultima DCC System Evaluation RailController Software (Bac) ... £240



524-042 NCE Power Cab 2 Amp DCC controller (NCE) ... £140



DCC04 Prodigy 'Advance 2' Wireless starter DCC controller package (Gau) ... £369

DCC14 Prodigy Advance 2 Backlit Walkaround controller (Gau) ... £104



DCC01 Prodigy Express Package, Can be extended the DCC13 Walkaround or DCC51 Wireless (Gau) ... £124

Point motors

DCP-CB6IP Cobalt ip slow-action analogue point motor - pack of 6 (DCC) ... £82



PL-10E Bag of 6 Point Motor Extended Pin (use PL-9) (Pec) ... £34

DCP-CB6DIP Cobalt ip slow-action digital point motor - pack of 6 (DCC) ... £177

DCP-CB6DIP Cobalt ip slow-action digital point motor - pack of 6 (DCC) ... £94

PL-10 Point Motor (Switch Machine) (Pec) ... £6

PL-10 Bag of 6 (Pec) ... £34



PL-10E Bag of 6 Point Motor Extended Pin (use PL-9) (Pec) ... £34

PM-2 Seep point motor (Gau) ... £3.50

PM-4 Seep point Motor Self Latching Switch (Gau) ... £5



PM-1 Seep point motor accessory switch (Gau) ... £4



PL-11 Side/surface mounted point motor (Pec) ... £7.50



HAT-PM-01 Solenoid point motor including pin extension and 2-way arm for use points and signals. Exclusive to Hatton's (Hat) ... £6.50

HAT-PM-01 Pack of 6 (Hat) ... £35

Switches & Levers

Accessories

GMC-LT Locomotive Tester for N, OO9, HO and OO scales (Gau) ... £270

Scenic tools & materials

P8G-1 Static Grass Micro Applicator (Pec) ... £40

Track underlay



JCS18L Cork Sheet - 1/8" Thick - 24" x 36" (Jav) ... £8

ST1411 Incise For Transition From 1 Level To Another - 4% Set - Elevates Track 4" in 8 - 2.5" Wide - Pack Of 4 (Woo) ... £10.70

Tools

XU2175B Flexible track cutters (XURON) (Gau) ... £15

TC-106 Timber and profile cutter manual cutting tool and adjustable angle support (Pro) NEW ... £44

GAUGEMASTER.com

The Online Home of The Engine Shed



DCC CONTROL

DIGITAL CONTROL SYSTEMS



DCC01 Prodigy Express System £159.95



DCC02 Prodigy Advance2 System £289.95
DCC03 Prodigy Advance2 Wireless System £479.95

DECODERS

- DCC18 OMNI Next18 Decoder £19.95
- DCC22 CLASSIC 2 Function Micro £25.95
- DCC23 CLASSIC 6 Pin Plug-in Decoder £25.95
- DCC26 Compact 6 Pin Decoder w/Harness £14.95
- DCC27 OMNI 21 & 8 Pin Decoder £18.95
- DCC28 OMNI 6 Pin Decoder with Harness £20.95
- DCC29 OMNI Direct Plug Decoder £19.95
- BDCC18 OMNI Next18 Decoder £89.95
- BDCC21 OMNI 21 & 8 Pin Decoder (5) £89.95
- BDCC28 OMNI 6 Pin with Harness (5) £99.95
- BDCC29 OMNI Direct Plug Decoder (5) £94.95
- DCC30 Accessory Decoder 4 Accessories £62.95

DCC ACCESSORIES

- DCC11 Prodigy Extension Plate £39.95
- DCC13 Prodigy Adv2 Wireless Walkaround £179.95
- DCC14 Prodigy Adv2 Backlit Walkaround £134.95
- DCC15 "Decoder Doctor" Decoder Tester £84.95
- DC40 Auto Reverse Module £42.95
- DCC49 Prodigy DCC Booster Unit 8 Amp £189.95
- DCC51 Prodigy Wireless Conversion Set £259.95
- DCC55 Prodigy Wired Computer Interface £54.95
- DCC60 Spare plug for Prodigy £3.45
- DCC61 Medium NEM 652 Socket (5) £7.95
- DCC62 Prodigy Universal Lead (2m) £5.50
- DCC63 Prodigy Adv Power Supply Unit £25.95
- DCC64 Prodigy Power Pack Lead £6.95
- DCC65 Prodigy Express Power Supply Unit £25.95
- DCC71 Prodigy Decoder Tester £9.95
- DCC72 8 to 21 Pin Adaptor £4.65
- DCC77 Prodigy Walkaround Adapter £9.95

DCC AUTOFROG



- DCC80 DCC Autofrog £5.50
 - BPDC80 DCC Autofrog (3) £14.50
- The DCC80 Autofrog is a simple switch that automatically changes the frog polarity on your DCC layout. In most situations, the use of electrophoretic points is recommended on digital layouts to ensure reliability but this can make extra switching more complicated than it needs to be. Visit our website for more information on this innovative solution. Thousands sold so far!



ANALOGUE CONTROL

MAINS POWERED CONTROLLERS



- GMC-COMBI Single Track Controller £39.95
- GMC-100M Single Track £84.95
- GMC-100M Single Track O Scale £84.95
- GMC-10LGB Single Track G Scale £39.95
- GMC-10LGB Single Track G Scale Fan £169.95
- GMC-P Single Track Simulation £39.95
- GMC-PO Single Track Simulation O Scale £104.95



- GMC-D Twin Track £99.95
- GMC-DO Twin Track O Scale £169.95
- GMC-DS Twin Track Simulation £169.95
- GMC-TS Three Track Simulation £174.95



GMC-Q Four Track £179.95

PANEL MOUNT CONTROLLERS



- GMC-100 Single Track £34.95
- GMC-100.O Single Track O Scale £44.95
- GMC-100LGB Single Track G Scale £54.95
- GMC-U Single Track Simulation £44.95
- GMC-UF Single Track Feedback £39.95
- GMC-UO Single Track Simulation O Scale £59.95
- GMC-UD Twin Track £54.95
- GMC-UDF Twin Track Feedback £59.95
- GMC-UDS Twin Track Simulation £59.95
- GMC-UTS Three Track Controller Sim. £79.95
- GMC-UQ Four Track £84.95

HANDHELD CONTROLLERS

- GMC-W Single Track £39.95
- GMC-HH Single Track Feedback £39.95
- GMC-WS Single Track Simulation £59.95

MAINS POWERED TRANSFORMERS

- GMC-M1 Output 2 x 16V AC £49.95
- GMC-M1DC Output 2 x 12V DC £54.95
- GMC-M2 Output 1 x 18V AC (2.5a) £54.95
- GMC-M3 Output 1 x 24V AC (1.25a) £54.95
- GMC-M4 Output 2 x 12V AC (1.25a) £54.95

WALL MOUNTED TRANSFORMERS

- GMC-WM1 Output 1 x 16V AC or 12V DC £19.95
- GMC-WM2 Output 1 x 9V DC (0.6a) £14.95
- GMC-WM3 Kato Unitrack UK Power Supply £14.95
- GMC-WM4 Output 12V DC (Regulated) £14.95

OPEN TRANSFORMERS

- GMC-T1 Output 2 x 16V AC (1a) £24.95
- GMC-T2 Output 1 x 18V AC (2.5a) £24.95
- GMC-T3 Output 1 x 24V AC (1.25a) £24.95
- GMC-T4 Output 2 x 12V AC (1a) £24.95

MODULES

- GMC-SS1 Super Shuttle Unit £34.95
- GMC-SS1LGB Super Shuttle Unit G Scale £44.95
- GMC-SS2 Station Stop Unit £39.95



POINT CONTROL

POINT CONTROL STARTER SET



- GMC-PCSET Point Control Starter Set £49.95
- Contains Mains Powered CDU, 3 x Point Motors, 3 x Reels of 10m Wire & 3 x Toggle Switches. Ideal for the beginner.

MAINS POWERED POINT CONTROL SYSTEM

- GMC-PCU1 Point Control Unit £114.95
- GMC-PCU2 Slave Unit for PCU1 £52.95

CAPACITOR DISCHARGE UNITS



- GMC-CDU Capacitor Discharge Unit £13.95
- GMC-MCDU Mains Powered CDU £24.95

UNCOUPLERS

- GMC-EM1 N Electro Magnetic Uncoupler £8.95
- GMC-EM2 Coupling Adaptor Fret (20) £4.95
- GMC-TLU OO Tension Lock Uncoupler £10.95

POINT MOTORS



- GMC-PM1 SEEP Motor with Built-In Switch £5.50
- GMC-PM2 SEEP Motor No Switch £4.95
- GMC-PM4 SEEP Motor Latching Mechanism £6.25



- GMC-PM10 Solenoid Point Motor £6.95
 - GMC-BPM10 Solenoid Point Motor (5) £29.95
- Designed with easy installation in mind, this motor features a built-in reversible mounting plate (with adjustment slots and holes), robust, plated metalwork and fibreglass PCBs for longer life. The magnetic coils are high efficiency for reliable operation. Also has easy to use "solder-free" screw terminals. Includes mounting screws and a throw-bar extension.



- GMC-PM10D Digital Solenoid Point Motor £18.95
- All the features of the PM10 but with an inbuilt DCC decoder to make wiring even easier.



- GMC-PM20 Surface Mount Point Motor £9.95
 - GMC-BPM20 Surface Mount Point Motor (5) £44.95
- Designed with easy installation in mind, PM20 is placed parallel to your point-work and operates equally well orientated either way. PM20 works well with all popular modelling scales, and with the leading brands of track in the UK. The magnetic coils are high-efficiency for reliable operation. PM20 also has a plug-in harness that is very easy to use. Mounting screws are included.



- PM20D Digital Surface Mount Point Motor £22.95
- All the features of the PM20 but with an inbuilt DCC decoder to make wiring even easier.

POINT MOTOR ACCESSORIES



- GMC-PM50 Connection Boxes (3) £3.95
- GMC-PM51 Tripled Point Motor Wire 10m £6.95
- GMC-PM52 Point Motor Accessory Pack £2.95
- GMC-PM53 Harnesses for PM10D (2) £3.95



TRACK

- ELECTRONIC HIGH FREQUENCY TRACK CLEANERS FOR DC (ANALOGUE) USE ONLY
- GMC-HF1 Single Track Unit £39.95
- GMC-HF2 Double Track Unit £49.95

AXLE-HUNG TRACK CLEANING PADS

- GM37 OO/HO Track Cleaning Pads (3) £5.95
- GM39 N Track Cleaning Pads (3) £5.95

TRACK TESTER



OO SCALE FLEXIBLE TRACK

- GM90 900mm N/Silver Flexible Track (100) £315
- GM93 900mm N/Silver Blk Flexi Track (24) £79.95
- GM94 900mm N/Silver Brn Flexi Track (24) £79.95
- GM97 900mm N/Silver Brn Flexi Track (100) £315
- GM19 Code 100 (OO) Rail Joiners (24) £2.95

OO SCALE TRACK ACCESSORIES

- GM45 OO/HO Re-Railer £5.50
- GM54 OO Buffer Stop £1.95
- BPGM54 OO Buffer Stop (5 Pack) £8.75



- GM55 OO Lit Buffer Stop £7.25
- GM56 OO Buffer Stop Lights (Pack of 2) £9.95
- GM13 Pair of Leads (Joiners/Bare Wire) £4.95
- GM66 Hornby Type Track Pins 10mm £2.75
- GM67 Hornby Long Track Pins 15mm £2.75

N SCALE FLEXIBLE TRACK

- GM96 900mm N/Silver Blk Flexi Track (24) £59.95
- GM18 Code 80 (N) Rail Joiners (24) £2.95

N SCALE TRACK ACCESSORIES

- GM46 N Re-Railer £2.95
- GM53 N Scale Buffer Stop £4.95
- BPGM53 N Scale Buffer Stop (Pack of 5) £22.50
- GM57 N Lit Buffer Stop on Track £9.25
- GM58 N Buffer Stop Lights (Pack of 2) £9.95
- GM17 Pair of Leads (N Joiner/Bare Wire) £4.95

OO GREY BALLASTED UNDERLAY SYSTEM



- GM114 OO/HO Granite Ballast (500g) £3.75
- GM117 OO/HO Granite Ballast (200g) £2.65
- GM200 Flexible Ballasted Underlay (5m) £2.95
- GM204 Point & Crossing Ballasting Kit £8.25

OO BROWN BALLASTED UNDERLAY SYSTEM

- GM111 OO/HO Brown Ballast (500g) £3.75
- GM170 Spring Grass Flock (30g) £3.45
- GM210 Flexible Ballasted Underlay (5m) £23.95
- GM214 Point & Crossing Ballasting Kit £8.25

N GREY BALLASTED UNDERLAY SYSTEM

- GM115 N Granite Ballast (500g) £3.75
- GM118 N Granite Ballast (200g) £2.65
- GM201 N Flexible Ballasted Underlay (5m) £23.95
- GM205 N Point & Crossing Ballasting Kit £8.25

N BROWN BALLASTED UNDERLAY SYSTEM

- GM113 N Brown Ballast (500g) £3.75
- GM211 N Flexible Ballasted Underlay (5m) £23.95
- GM215 Point & Crossing Ballasting Kit £8.25

OO SCALE CORK TRACKBED SYSTEM



- GM251 3mm Cork Trackbed 4.5 x 50cm (6) £9.25
- GM252 3mm Cork Plates 15 x 50cm (2) £4.75
- GM240 For RH Sectional Points (2) £4.50
- GM241 For LH Sectional Points (2) £4.50
- GM244 For RH Sectional Curved Points (2) £4.50
- GM245 For LH Sectional Curved Points (2) £4.50
- GM247 For Y Sectional Points (2) £4.50

N SCALE CORK TRACKBED SYSTEM

- GM231 2mm Cork Trackbed 2.8 x 50cm (6) £9.25
- GM232 2mm Cork Plates 15 x 50cm (2) £4.75
- GM225 For RH Sectional Points (2) £4.50
- GM226 For LH Sectional Points (2) £4.25



SCENICS

STARTER PACK



- GM194 Scenic Starter Pack £24.95

GENERAL SCENIC MODELLING PRODUCTS

- GM100 Mod Roc (2.75m) £4.75
- GM119 Fine Plaster of Paris (1kg) £3.95
- GM130 1/16 Cork Sheet 3' x 2' (60 x 90cm) £6.95
- GM131 1/8 Cork Sheet 3' x 2' (60 x 90cm) £10.95
- GM167 Balsa Bundle 50 x 76 x 229mm £2.50
- GM168 Balsa Bundle 75 x 150 x 450mm £10.95

GRASS & GRAVEL MATS



- GM20 Spring Grass Mat 100cm x 75cm £7.95
- GM21 Summer Grass Mat 100cm x 75cm £7.95
- GM22 Autumn Grass Mat 100cm x 75cm £7.95
- GM23 Gravel Mat 100cm x 75cm £5.95
- GM38 Spring Grass Mat 240cm x 120cm £34.95

MEADOW MATS



- GM140 Meadow Mat - Spring 6mm Grass £9.75
- GM141 Meadow Mat - Meadow 6mm Grass £9.75
- GM142 Meadow Mat - Spring 12mm Grass £12.75
- GM143 Meadow Mat-Meadow 12mm Grass £12.75
- GM147 Meadow Mat - Beige 6mm Grass £9.75
- GM148 Meadow Mat - Beige 12mm Grass £12.75

STATIC GRASS SYSTEM



- GM196 Static Grass Starter Set £9.95
- GM193 Puffer Bottle £4.95
- GM169 Static Grass Glue (250ml) £6.95
- GM170 Spring Grass Flock (30g) £3.45
- GM171 Summer Grass Flock (30g) £3.45
- GM172 Moorland Grass Flock (30g) £3.45
- GM173 Meadow Grass Flock (30g) £3.45
- GM174 Woodland Floor Grass Flock (30g) £3.65

BUDGET SCATTERS

- GM101 Meadow Scatter (50g) £1.95
- GM102 Mid Green Scatter (50g) £1.95
- GM103 Dark Green Scatter (50g) £1.95
- GM105 Spring Green Scatter (50g) £1.95
- GM108 Earth Brown Scatter (50g) £1.95
- GM109 Black Scatter (50g) £1.95
- GM112 Red/Brown Scatter (50g) £1.95
- GM118 Inlaid Coal (50g) £2.45
- GM116 Grey Tarmac Scatter (50g) £1.95

LICHENS & HEDGES



- GM160 Light Green Hedgerow (1m) £7.50
- GM161 Dark Green Hedgerow (1m) £7.50
- GM164 Light Green Lichen (80g) £4.95
- GM165 Dark Green Lichen (80g) £4.95
- GM166 Assorted Lichen (80g) £4.95

FOLIAGE

- GM150 Fine Light Green Foliage (30g) £3.55
- GM151 Fine Dark Green Foliage (30g) £3.55
- GM152 Fine Mid Green Foliage (30g) £3.55
- GM153 Fine Light Brown Foliage (30g) £3.55
- GM154 Fine Brown Foliage (30g) £3.55

STANDARD TREES

- GM180 Plum Trees (3) £7.95
- GM181 Plum Trees in Blossom (3) £7.95
- GM182 Fruit Trees (3) £7.95
- GM183 Apple Trees (3) £7.95
- GM184 Birch Trees (3) £7.95
- GM185 Weeping Willow Trees (3) £7.95
- GM186 Poplar Trees (3) £7.95
- GM187 Pine Trees (3) £8.95
- GM188 Beech Trees (2) £7.95

VALUE TREE ASSORTMENTS



- GM127 N Scale Tree Assortment (10) £9.95
- GM128 OO Scale Spring Trees (10) £11.95
- GM129 OO Scale Summer Trees (10) £11.95

BULK TREES

- GM120 Deciduous Trees (25) £22.95
- GM121 Mixed Trees (25) £22.95
- GM122 Fir Trees (25) £22.95
- GM123 Small Fir Trees (50) £19.95
- GM124 Deciduous Trees (25) £22.95
- GM125 Spruce Trees (25) £22.95

MAKE YOUR OWN TREES

- GM195 Seafoam for Tree Making £19.95
- GM156 Light Green Scenic Leaves (50g) £4.1
- GM157 Mid Green Scenic Leaves (50g) £4.1
- GM158 Dark Green Scenic Leaves (50g) £4.1

FLOWERS



- GM139 Flowerbeds £11.95
- GM175 Garden Flowers £9.95
- GM176 Water Plants £9.95
- GM177 Garden Plants £9.95
- GM178 Wild Flowers £9.95

PLANTS

- GM149 Green Plants 12mm (42) £4.95
- GM159 Yellow Plants 12mm (42) £4.95

GRASS STRIPS/TUFTS

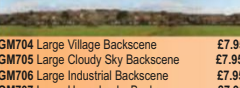
- GM136 Spring Grass Strips (36) £11.95
- GM137 Summer Grass Tufts (104) £11.95
- GM138 Flowering Grass Tufts (108) £11.95
- GM162 Green 6mm Mini Tufts (42) £4.95
- GM163 Green 12mm Mini Tufts (42) £4.95

BRICKWORK

- GM30 Plain Stone Wall Grey £9.7
- GM31 Grey Stone Wall & Buttresses £9.7
- GM32 Grey Stone Wall & Arches £9.7
- GM197 Stone Tunnel Mouth & Walls £8.7
- GM198 Single Tunnel Mouth & Walls £15.7
- GM199 Double Tunnel Mouth & Walls £20.7

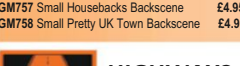
BACKSCENES

- GM701 Large Valley Backscene £7.9
- GM702 Large Countryside Backscene £7.9
- GM703 Large Open Field Backscene £7.9



- GM704 Large Village Backscene £7.9
- GM705 Large Cloudy Sky Backscene £7.9
- GM706 Large Industrial Backscene £7.9
- GM707 Large Housebacks Backscene £7.9
- GM708 Large Pretty UK Town Backscene £7.9
- GM751 Small Valley Backscene £4.9
- GM752 Small Countryside Backscene £4.9
- GM753 Small Open Field Backscene £4.9
- GM754 Small Village Backscene £4.9

- GM755 Small Cloudy Sky Backscene £4.9
- GM756 Small Industrial Backscene £4.9
- GM757 Small Housebacks Backscene £4.9
- GM758 Small Pretty UK Town Backscene £4.9



HIGHWAYS



- OO SCALE WIDE ROAD SYSTEM
- GM370 80mm Wide Tarmac Road (1m) £7.2
- GM371 80mm Wide Universal Curves (2) £7.2
- GM375 68mm Wide Tarmac Road (1m) £7.2
- GM376 68mm Wide Universal Curves (2) £7.2

- OO/HO SCALE VEHICLE LIGHTING KITS
- GM385 Standard Vehicle Kit £14.9
- GM386 Emergency Vehicles Kit (Blues) £16.9
- GM387 Service Vehicles Kit (Orange) £16.9

N SCALE ROAD SYSTEM

- GM390 40mm Wide Tarmac Road (1m) £6.9
- GM391 40mm Wide Universal Curves (2) £6.9

- ROADSIDE CRASH BARRIERS
- GM381 OO Scale £6.9
- GM396 N Scale £6.9



STRUCTURE

- OO SCALE PLASTIC FENCING
- GM146 Garden Fencing 290mm Length £6.9

- OO SCALE LASER CUT KITS



- GM451 Wooden Fencing 300mm Length £5.5
- GM452 Lattice Fencing 300mm Length £5.5
- GM453 Garden Shed Kit £6.5

TENS OF THOUSANDS OF ITEMS ARE IN STOCK NOW. E & OE.
WE CAN DELIVER POST FREE TO MOST UK ADDRESSES



STRUCTURES

OO SCALE "FORDHAMPTON" PLASTIC KITS

Fordhampton is a bustling market town on a busy mainline running through the rolling South Downs. With both local and express services steaming through, Fordhampton Station serves all kinds of trains from commuters travelling to and from London as well as excursions to the seaside at Brighton! Wherever you are going the station master will be happy to help you get to your destination.



GM401 Fordhampton Station	£25.95
GM402 Fordhampton Signal Box	£11.95
GM403 Fordhampton Footbridge	£17.95
GM404 Fordhampton Level Crossing	£12.95
GM405 Fordhampton 60s Estate House	£15.95



GM406 Fordhampton Locomotive Shed	£20.95
GM407 Fordhampton Carriage Platforms	£9.95
GM408 Fordhampton Village Store or Pub	£17.95

COMING SOON...

GM409 Fordhampton Pub/Bistro	TBA
GM410 Fordhampton Rest Home/Doctors	TBA
GM411 Fordhampton Farmhouse/Cottage	TBA
GM412 Fordhampton Gasometer	TBA
GM413 Fordhampton Nuiser	TBA
GM414 Fordhampton Bridge	TBA



KESTREL DESIGNS

N GAUGE PLASTIC KITS

GMKD01 House	£4.35
GMKD02 Shop	£4.35
GMKD03 Bungalow	£3.60
GMKD04 Church with Porch	£5.95
GMKD05 House/Shop Unit with Glazing	£6.75
GMKD06 Two Shop Unit with Glazing	£6.75
GMKD07 Four House Unit	£6.75
GMKD08 Country Station	£8.75
GMKD09 Station Buildings	£5.35
GMKD10 Island Platform with Flat Canopy	£8.25
GMKD11 Flat Canopy	£5.95
GMKD12 Small Signal Box	£6.45
GMKD13B Farm Rail Fencing Brown	£3.10
GMKD13W Farm Rail Fencing White	£3.10
GMKD14 Telegraph Poles	£3.10
GMKD15 Windows Doors & Gutters	£4.35
GMKD16 Platforms (2)	£2.85
GMKD17 Platform Ramps (2)	£2.35
GMKD18 Station Yard Huts	£3.35
GMKD19 Weighbridge & Office	£4.35
GMKD20 Coal Office	£3.35
GMKD21 Level Crossing/Keepers Cottage	£5.95
GMKD22 Four Greenhouses	£3.10
GMKD23 Two Domestic Garages	£3.10
GMKD24 Water Tower	£3.85
GMKD25 Corner Shop	£4.65
GMKD26 Corner Pub	£4.65
GMKD27 Three Storey Townhouse	£5.95
GMKD28 Three Storey Town Shop	£5.95
GMKD29 Modern Station	£7.95
GMKD30 Modern Station Waiting Room	£5.75
GMKD31 Station Masters House	£6.45
GMKD32 Pair Pre War Semi Det. Houses	£7.25
GMKD33 Boilerhouse & Chimney	£6.45
GMKD34 Stable Block	£3.85
GMKD35 Cow Shed	£3.60
GMKD36 Barn	£5.95
GMKD37 Farm House	£7.50
GMKD38 Steel Footbridge	£7.50
GMKD39 Modern Industrial Unit	£5.95
GMKD40 Modern Fire Station	£7.25
GMKD41 Platforms Wide (2)	£3.35
GMKD42 Platform Ramps Wide (2)	£2.85
GMKD43 Goods Shed	£7.75
GMKD1000 Town Station	£16.95
GMKD1001 Old Factory with Chimney	£19.95

GMKD01 House	£4.35
GMKD02 Shop	£4.35
GMKD03 Bungalow	£3.60
GMKD04 Church with Porch	£5.95
GMKD05 House/Shop Unit with Glazing	£6.75
GMKD06 Two Shop Unit with Glazing	£6.75
GMKD07 Four House Unit	£6.75
GMKD08 Country Station	£8.75
GMKD09 Station Buildings	£5.35
GMKD10 Island Platform with Flat Canopy	£8.25
GMKD11 Flat Canopy	£5.95
GMKD12 Small Signal Box	£6.45
GMKD13B Farm Rail Fencing Brown	£3.10
GMKD13W Farm Rail Fencing White	£3.10
GMKD14 Telegraph Poles	£3.10
GMKD15 Windows Doors & Gutters	£4.35
GMKD16 Platforms (2)	£2.85
GMKD17 Platform Ramps (2)	£2.35
GMKD18 Station Yard Huts	£3.35
GMKD19 Weighbridge & Office	£4.35
GMKD20 Coal Office	£3.35
GMKD21 Level Crossing/Keepers Cottage	£5.95
GMKD22 Four Greenhouses	£3.10
GMKD23 Two Domestic Garages	£3.10
GMKD24 Water Tower	£3.85
GMKD25 Corner Shop	£4.65
GMKD26 Corner Pub	£4.65
GMKD27 Three Storey Townhouse	£5.95
GMKD28 Three Storey Town Shop	£5.95
GMKD29 Modern Station	£7.95
GMKD30 Modern Station Waiting Room	£5.75
GMKD31 Station Masters House	£6.45
GMKD32 Pair Pre War Semi Det. Houses	£7.25
GMKD33 Boilerhouse & Chimney	£6.45
GMKD34 Stable Block	£3.85
GMKD35 Cow Shed	£3.60
GMKD36 Barn	£5.95
GMKD37 Farm House	£7.50
GMKD38 Steel Footbridge	£7.50
GMKD39 Modern Industrial Unit	£5.95
GMKD40 Modern Fire Station	£7.25
GMKD41 Platforms Wide (2)	£3.35
GMKD42 Platform Ramps Wide (2)	£2.85
GMKD43 Goods Shed	£7.75
GMKD1000 Town Station	£16.95
GMKD1001 Old Factory with Chimney	£19.95

GM50 OO/HO Locomotive Wheel Cleaner	£39.95
GM47 N Gauge Wheel Cleaner	£34.95
GM51 Spare Pads for GM50	£17.95
GM49 Spare Pads for GM47	£17.95
GM59 N Scale Wheel Cleaner	£15.95

N GAUGE LASER CUT KITS

The same as the ultra detailed OO equivalents (GM451/GM452/GM453) - pack sizes vary from the 4mm versions though

GMKD51 Wooden Fencing	£5.25
GMKD52 Lattice Fencing	£5.25
GMKD53 Garden Sheds (2)	£5.50

N GAUGE VALUE KIT SETS

GMKD2000 Station Set	£14.95
GMKD2001 Town Set	£12.95
GMKD2002 Suburban Set	£14.95
GMKD2003 Farm Set	£16.95



LIGHTING

OO SCALE LAMPS & LIGHTING

Fine 4mm scale lamps with prototypical post extensions and Light control PCBs

GM801 Barley Twist Gas Lamp Soft Black (3)	£12.95
GM802 B/Twist Gas Lamp BR/SR Green (3)	£12.95
GM803 B/Twist Gas Lamp LMS Maroon (3)	£12.95
GM804 B/Twist Gas Lamp GWR Stone (3)	£12.95
GM805 B/Twist Gas Lamp Grey Undercoat (3)	£12.95
GM806 Taper Post Gas Lamp Soft Black (3)	£12.95
GM807 Taper Post Gas Lamp BR/SR Grn (3)	£12.95
GM808 T/Post Gas Lamps LMS Maroon (3)	£12.95
GM809 T/Post Gas Lamps GWR Stone (3)	£12.95
GM810 T/Post Gas Lamp Grey Undercoat (3)	£12.95
GM811 Taper Post Oil Lamp Soft Black (3)	£12.95
GM812 Taper Post Oil Lamp BR/SR Green (3)	£12.95
GM813 Taper Post Oil Lamp LMS Maroon (3)	£12.95
GM814 Taper Post Oil Lamp GWR Stone (3)	£12.95
GM815 T/Post Oil Lamp GWR Stone (3)	£12.95
GM816 Swan Neck Lamp Soft Black (3)	£12.95
GM817 Swan Neck Lamp BR/SR Green (3)	£12.95
GM818 Swan Neck Lamp LMS Maroon (3)	£12.95
GM819 Swan Neck Lamp GWR Stone (3)	£12.95
GM820 W/Mounted Swan Neck Black (2)	£12.95
GM821 W/Mounted Swan Neck SR/BR Grn (2)	£12.95
GM822 W/Mounted Swan Neck LMS Mm (2)	£12.95
GM823 W/Mounted Swan Neck GWR Stone (2)	£12.95
GM824 W/Mounted Gas Lamp Soft Black (2)	£12.95
GM825 W/Mounted Gas Lamp BR/SR Grn (2)	£12.95
GM826 W/Mounted Gas Lamp LMS Maroon (2)	£12.95
GM827 W/Mounted Gas Lamp Undercoat (2)	£12.95
GM828 W/Mounted Gas Lamp GWR Stone (2)	£12.95
GM829 Modern Sgl Head Adjustable Lamp (4)	£14.95
GM830 Modern DBI Head Adjustable Lamp (3)	£12.95

OO SCALE VALUE PACKS LAMPS & LIGHTING

Typically 6 x lamps, plus two matching wall lamps with prototypical post extensions as well as 6 prototype white LEDs for building interiors and all required light control PCBs.

GM851 Barley Twist Gas Lamp Soft Black	£29.95
GM852 B/Twist Gas Lamp SR/BR Green	£29.95
GM853 B/Twist Gas Lamp LMS Maroon	£29.95
GM854 B/Twist Gas Lamp GWR Stone	£29.95
GM855 B/Twist Gas Lamp Grey Undercoat	£29.95
GM856 Taper Post Gas Lamp Soft Black	£29.95
GM857 Taper Post Gas Lamp BR/SR Green	£29.95
GM858 Taper Post Gas Lamp LMS Maroon	£29.95
GM859 Taper Post Gas Lamp GWR Stone	£29.95
GM860 Taper Post Gas Lamp Undercoat	£29.95
GM861 Taper Post Oil Lamp Soft Black	£29.95
GM862 Taper Post Oil Lamp SR/BR Green	£29.95
GM863 Taper Post Oil Lamp LMS Maroon	£29.95
GM864 Taper Post Oil Lamp GWR Stone	£29.95
GM865 Taper Post Oil Lamp Grey Undercoat	£29.95
GM866 Swan Neck Lamp Soft Black	£29.95
GM867 Swan Neck Lamp SR/BR Green	£29.95
GM868 Swan Neck Lamp LMS Maroon	£29.95
GM869 Swan Neck Lamp GWR Stone	£29.95
GM870 Modern Sgl Head Adjustable Height	£24.95
GM880 Modern DBI Head Adjustable Height	£24.95

LIGHTING ACCESSORIES

GM895 Light Control PCB - LED/Lamp (2)	£6.95
GM896 Light Control PCB - LED/Lamp (5)	£12.95
GM897 Mini Light Control PCB - LED (10)	£4.95
GM898 Mini Light Control PCB - Lamp (10)	£4.95
GM899 Spare Bulbs for Lamps (5)	£3.95



TOOLS

MODEL RAILWAY MAINTENANCE

GM50 OO/HO Locomotive Wheel Cleaner	£39.95
GM47 N Gauge Wheel Cleaner	£34.95
GM51 Spare Pads for GM50	£17.95
GM49 Spare Pads for GM47	£17.95
GM59 N Scale Wheel Cleaner	£15.95



GM60 OO Scale Wheel Cleaner	£19.95
GM619 Precision Lubricator	£4.75
GM667 Superfine Oil Pen w/Teflon Particles	£5.95
GM668 Electrical Control Oil Pen	£9.95

GENERAL MODELLING TOOLS

GM26 Track Rubber	£3.15
GM27 Jumbo Track Rubber	£5.75
GM600 A2 Cutting Mat	£14.95
GM601 A3 Cutting Mat	£9.95
GM602 A4 Cutting Mat	£4.95
GM603 A5 Cutting Mat	£2.95
GM604 Round Nose Pliers	£6.95
GM605 Flat Nose Pliers	£6.95
GM606 Side Cutters	£6.95
GM607 Half Round Pliers	£6.95
GM608 Bent Nose Pliers	£6.95
GM609 S/Steel Tweezers (4)	£7.95
GM610 Double Ended Pin Vice	£5.95
GM611 Sawset 1 w/ Scalpel Handle	£9.95
GM612 Hole Saw & Arbor for Point Motor Fitting	£3.50
GM613 Trim-away Knife	£3.75
GM614 S/S Scalpel & Blades	£5.50
GM615 Plastic Scalpel & Blades	£5.95
GM617 Pick-Up Tool	£6.50
GM618 Magnifier Tweezers	£3.95
GM621 Locking forceps Curved	£6.95
GM622 Hot Wire Cutter for Scenic Modelling	£19.95
GM623 Wires for Hot Wire Cutter (5)	£4.95
GM624 Swivel Top Pin Vice	£6.75
GM625 Curved Tweezer Reverse Action	£4.50
GM626 Straight Tweezer Reverse Action	£4.50
GM627 Blunt End Tweezer Reverse Action	£4.50
GM629 Cutting Discs (10)	£4.95
GM630 Screw Top Mandrels (3)	£4.50
GM631 Slitting Discs (10) & Mandrel	£5.25
GM632 Budget Needle File Set	£6.95
GM633 Glass Fibre Pencil 4mm	£7.50
GM634 4mm G/Fibre Refills (10)	£9.95
GM635 2mm Glass Fibre Pencil	£6.75
GM636 2mm G/Fibre Refills (5)	£15.95
GM638 Cutting Broaches 0.6-2.0	£15.95
GM640 Archimedian Drill Stock	£3.95
GM641 HSS Jobrs Drills 0.5 (5)	£3.95
GM642 HSS Jobrs Drills 0.8 (5)	£3.95
GM643 HSS Jobrs Drills 1.0 (5)	£3.95
GM644 HSS Jobrs Drills 1.2 (5)	£3.95
GM645 HSS Jobrs Drills 1.5 (5)	£3.95
GM646 HSS Jobrs Drills 1.8 (5)	£3.95
GM647 HSS Jobrs Drills 2.0 (5)	£3.95
GM648 Microbox HSS Twist Drill Bits 61-90	£10.95
GM650 HSS Jobrs Drills 0.3 (5)	£3.95
GM651 HSS Jobrs Drills 0.4 (5)	£3.95
GM652 HSS Jobrs Drills 0.6 (5)	£3.95
GM653 HSS Jobrs Drills 0.7 (5)	£3.95
GM654 HSS Jobrs Drills 0.9 (5)	£3.95
GM655 Spare Blades for GM614	£2.75
GM660 Pick n Place Twin Pack	£8.95
GM664 Economy Spure/Plastic Cutter	£4.75
GM666 Clip On Magnifying Eye Glass	£6.75
GM669 Pin Pusher with Depth Stop	£10.95
GM670 Deluxe Paintbrush Set	£12.95
GM683 Soft Grip Knife Set with Blades	£6.95
GM684 Spare Blades for GM683	£1.50
GM693 Value Model Railway Drill	£16.95
GM694 Mains Powered Value Drill	£16.95
GM695 Model Railway Screwdriver Set	£12.95
GM696 Masking Tape 6mm x 18m (2)	£2.75
GM697 Masking Tape 10mm x 18m (2)	£2.65
GM698 Masking Tape 18mm x 18m (1)	£2.65

RAZOR SAWS

GM671 4 in 1 Saw Set	£19.95
GM672 Razor Saw Superfine	£11.75
GM674 Razor Saw Fine	£11.75
GM675 Razor Saw Medium	£11.75
GM676 Aluminium Mitre Box	£16.50
GM677 Fine Woodcraft Saw	£11.95
GM678 Flush Cutting Saw	£15.75
GM679 Universal Razor Saw	£12.75

SOLDERING STATION

GM661 Complete Soldering Station	£29.95
GM662 GM661 Spare Tip	£2.95

SOLDERING IRONS & BITS

GM680 15W 230V Soldering Iron	£16.95
GM681 25W 230V Soldering Iron	£17.95
GM682 40W 230V Soldering Iron	£19.95
GM685 15W No.6 Tip	£3.95
GM686 15W No.8 Tip	£3.95
GM687 25W No.6 Tip	£3.95
GM688 25W No.7 Tip	£3.95
GM689 25W No.8 Tip	£3.95
GM690 40W No.6 Tip	£3.95
GM691 40W No.7 Tip	£3.95
GM692 40W No.8 Tip	£3.95

SOLDERING ACCESSORIES

GM01 Low Melt Solder 70 degrees (20g)	£4.25
GM02 Solder 180 degrees (20g)	£3.95
GM03 White Metal Flux	£5.95
GM04 Brass Flux	£5.95
GM05 Non Acid Safety Flux	£6.25
GM06 Solder Wire 145 Degrees	£4.85

MAGNETS

GM86 Small Magnets (10)	£5.50
GM87 Medium Magnets (10)	£5.75
GM88 Large Magnets (10)	£6.00
GM98 3u Bulbs (10) & Capacitors (5)	£5.95
GM99 Pack of Reeds & 5 Magnets	£13.95

UNIVERSAL RELAY SWITCH

GM500 Universal Relay Switch	£5.50
BPGM500 Universal Relay Switch (3)	£14.50
GM500D Universal Relay Switch (DCC Friendly)	£5.75

SWITCHES

GM501 Slide Switch DPDT	£1.70
GM502 Slide Switch DPDT (Cloff)	£1.70
GM503 Toggle Switch SPST	£2.35
GM504 Toggle Switch DPDT	£2.65
GM505 Mini-Toggle DPDT (Cloff)	£3.15

WIRE

GM098B Twinned Wire Red/Black (10m)	£6.75
GM10 Wire Red/Black/Green (10m of each)	£15.95
GM11BK Wire Black 7 x 0.2mm (10m)	£2.15
GM11BL Wire Blue 7 x 0.2mm (10m)	£2.15
GM11BN Wire Brown 7 x 0.2mm (10m)	£2.15
GM11GN Wire Green 7 x 0.2mm (10m)	£2.15
GM11GR Wire Grey 7 x 0.2mm (10m)	£2.15
GM11O Wire Orange 7 x 0.2mm (10m)	£2.15
GM11P Wire Pink 7 x 0.2mm (10m)	£2.15
GM11PP Wire Purple 7 x 0.2mm (10m)	£2.15
GM11R Wire Red 7 x 0.2mm (10m)	£2.15
GM11W Wire White 7 x 0.2mm (10m)	£2.15
GM11Y Wire Yellow 7 x 0.2mm (10m)	£2.15
BPGM11BK Black Wire 7 x 0.2mm (100m)	£7.95
BPGM11BL Blue Wire 7 x 0.2mm (100m)	£7.95
BPGM11BN Brown Wire 7 x 0.2mm (100m)	£7.95
BPGM11GN Green Wire 7 x 0.2mm (100m)	£7.95
BPGM11GR Grey Wire 7 x 0.2mm (100m)	£7.95
BPGM11O Orange Wire 7 x 0.2mm (100m)	£7.95
BPGM11P Pink Wire 7 x 0.2mm (100m)	£7.95
BPGM11PP Purple Wire 7 x 0.2mm (100m)	£7.95
BPGM11R Red Wire 7 x 0.2mm (100m)	£7.95
BPGM11W White Wire 7 x 0.2mm (100m)	£7.95
BPGM11Y Yellow Wire 7 x 0.2mm (100m)	£7.95

GAUGEMASTER Limited Edition News

GM506 Mini-Toggle DPDT	£2.75
GM507 Mini-Toggle SPST	£2.45
GM508 Mini-Toggle SPDT	£2.45
GM509 Mini-Toggle SPDT (Cloff)	£2.45
GM510 Mini-Toggle for Point Motors	£2.70
GM511 Mini-Toggle for G Point Motors	£3.65
GM512 Push to Break Black (5)	£5.95
GM513 Push to Make Black (5)	£2.85
GM514 Push to Make Blue (5)	£2.85
GM515 Push to Make Green (5)	£2.85
GM516 Push to Make Red (5)	£2.85
GM517 Push to Make White (5)	£2.85
GM518 Push to Make Yellow (5)	£2.85
GM519 Rotary Switch 1 Pole 12 Way	£2.85
GM520 Rotary Switch 2 Pole 6 Way	£3.75
GM521 Rotary Switch 3 Pole 4 Way	£3.75
GM522 Rotary Switch 4 Pole 3 Way	£3.75

METCALFE

Card Construction Kits



Shop online: www.metcalfemodels.com



ORDER BY PHONE: 01729 830072

ORDER BY MAIL: Metcalfe Models, Bell Busk, Skipton, N.Yorks, BD23 4DU

POSTAGE: Orders up to £19.99: £2.50

Orders £20 and over: £4.50

Visiting Skipton? Visit
Craven Model Centre,
Mount Pleasant, BD23 1JZ.



NEW FROM METCALFE:

N PARISH CHURCH: PN926 - £10.99

The long awaited Parish Church now available in N-Scale. This is a redesign of the popular church, now with stunning laser cut components. Comes with separate lychgate and a small amount of walling. This makes a perfect centrepiece.

Similar available in 00 - PO226 £15.99

NEW FROM METCALFE:

N Country Station: PN137 - £11.99

The newly re-designed N Country Station is a re-release of the popular N Scale Red Brick Station. The design is based on standard designs by Cheshire Lines Railway. It is a sturdy building with laser cut components for intricate detail. It also includes an opposite platform shelter. Designed to stand with the Red Brick Platform (PN110).

Country Station also available in 00:
PO237 - £13.75



NEW FROM METCALFE:

N Workers Cottages: PN155 - £9.99

NEW: N Workers Cottages. Two complete sets of cottages and outbuildings make up this attractive kit. Based on the Settle Carlisle Railway Workers Cottages, this design lends itself to many uses be it railway, agricultural or industrial.

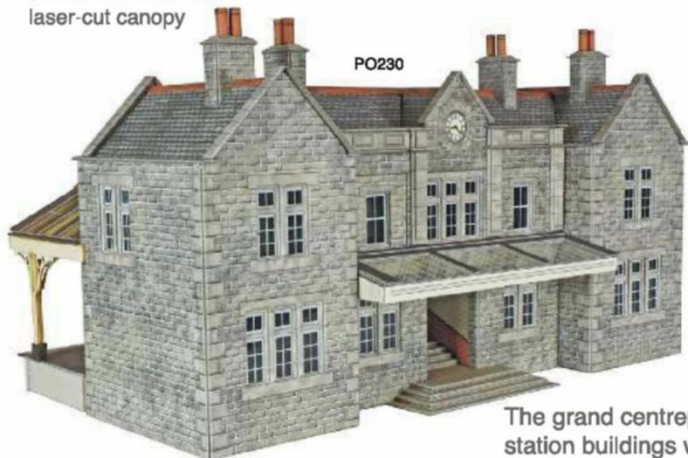


PN155

New from METCALFE, The all new 00 Mainline Station Range...

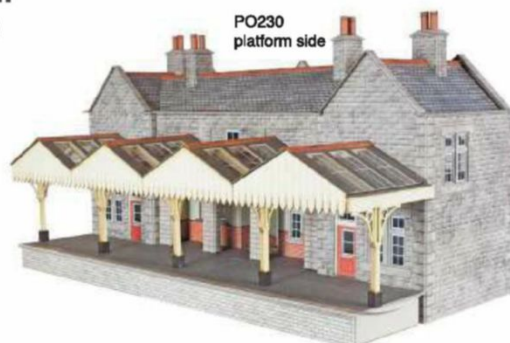


Includes improved stonework detail and laser-cut canopy



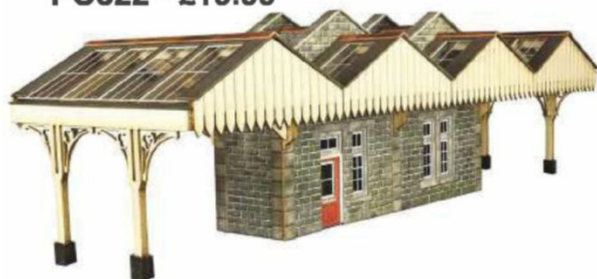
00 Booking Hall PO320 - £22.99

Designed to stand alongside Wall-Backed Canopy and Platform Canopy kits



NEW RELEASE

00 Island Platform Building PO322 - £19.99



The grand centrepiece and first in a new range of redesigned station buildings with more to follow. New features finely detailed laser-cut platform canopy and fine d recessed windows.

PLEASE NOTE: Our 'All New Mainline Station' range does NOT match with our older versions PO230, 231 & 234. More add-on kits to go with the new range due out soon.

Island Platform: A centre platform waiting room building with all-round canopy, especially designed to stand next to our Mainline Station Range. This stand alone building has fine laser cut canopy components that match our PO340 Canopy Kit. Platform is not included in this kit, but is designed for use with our PO235 Stone Platform.

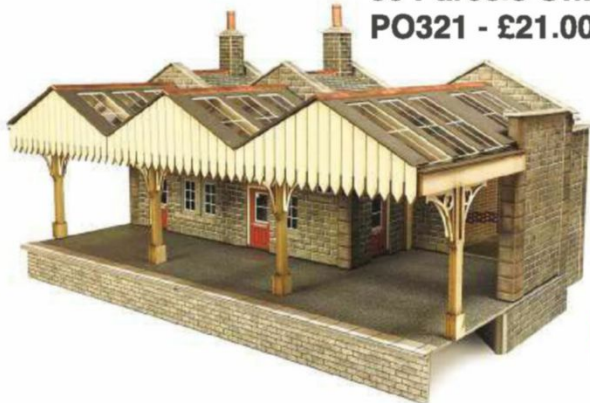


Island Platform Building shown here with the Stone Platform Kit (see below). Building does not come with platform.

00 Stone Platform PO235 - £11.99

A truly versatile platform system that can be made to any shape. Straight, curved, islands or bays. One kit contains enough to build 7ft in length max.

NEW RELEASE 00 Parcels Office PO321 - £21.00



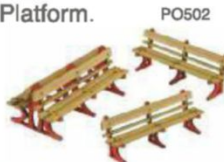
Laser-Cut Mini Kits that finish off your Mainline Station Scene...

PO517



00 Mini Kits

PO517 00/HO Kiosk - £5.75
PO501 00/HO GWR Benches - £5.75
PO502 00/HO Platform Benches - £5.75
NEW PO530 00/HO Market Stalls - £6.50



PO502



PO501

NEW RELEASE 00 Market Stalls PO530 - £6.50



A great addition to any street scene. Contains two stalls with colourful canopies and merchandise. Laser Cut.

ALL PRICES
INCLUDE
VAT

www.HOLT MODEL RAILWAYS.com

MAIL ORDER
HOLT HOUSE, CASWELL BAY
SWANSEA SA3 3BU
DISCOUNT
SUPPLIES FOR OO, N + O

Tel: 01792 232264
TEL ORDERS



YOU MAY ALSO FAX ON THE ABOVE NUMBER

Payment by cheque (if available include cheque card nos and expiry date) or postal order or credit cards as shown above. Please write card numbers clearly or telephone order by credit card or switch. POSTAGE £4.95 - Prices ruling are those at despatch

SHOP
BISHOPSTON ROAD, BISHOPSTON
SWANSEA

Email holtmodelrailways@talk21.com

SHOP HOURS:

9.30-12.00 2.00-4.45 closed on Sunday and Friday

HORNBY

STEAM LOCOMOTIVES

R2745 SR SCHOOLS WELLINGTON £99.50



R2815 SCHOOLS LIMITED EDITION TRAIN PACK £176.00

R2843 SR SCHOOLS DULWICH £95.60

R2915 GWR 280X NRM £109.50

R2916 GWR 280X (ROUNDEL) £109.50

R2917 BR 280X LATE £109.50

R2918 GWR 380X £109.50



R3171 PZ LNER 2-6-0 £99.95

R3020 LMS 2-6-4 FOWLER TANK MARION £95.00



R3080 BR A1 PEPPER CORN TORNADO £65.00

R3086 LNER FLYING SCOTSMAN £76.00

R3102 BR KING EXP BLUE LTD E3 £108.50

R3115 BR WEST COUNTRY EXETER £129.00

R3132 LNER GREEN A3 BOOK LAW £109.00

R3189 LNER CLASS 1 GREEN £125.50

R3204 W7 LSWR LINED GREEN NRM £121.50

R3206 BR SCHOOLS BRIGHTON £121.00

R3229 BR STAR CLASS BRITISH MONARCH £116.05

R3239 BR CLASS 700 £115.00

R3276 LMS COMPOUND 4-4-0 FOWLER TENDER £151.95

R3277 GWR COUNTY OF DEVON 4-4-0 £155.00

R3284 TTS FLYING SCOTSMAN SOUND £192.00

R3286 EVENING STAR BR GREEN 2-10-0 £282.50



R3300 WINSTON CHURCHILL FUNERAL TRAIN £235.00

R3306 LNER A4 SILVER LINK GREY £132.00

R3307 LNER A4 QUICKSILVER GREY £132.00

R3308 LNER SILVER FOX GREY £149.00

R3309 LNER SILVER KING GREY £139.00

R3310 BR WEST COUNTRY BUDE £126.00

R3327 S15 SOUTHERN RAILWAY £116.50

R3330 KING GEORGE V SPECIAL EDITION £145.00

R3370 TTS BR KING RICHARD 1 BLUE SOUND £155.50

R3371 LNER BLUE A4 MALLARD £279.50

R3412 BR S15 30042 EARLY CREST £115.00

R3413 BR S15 30051 LATE CREST £115.00



R3457 SR T9 4-4-0 £99.50



R2882/R3496 SOJUR BLUE 0-6-0T £28.95

R2755 CLASS 96 BR BLUE £99.95



R2946 4 CAR BR YEP UNIT £117.50

R3161 BR 2 - BIL TWO CAR SET £105.00

R3162 BR 2 - BIL TWO CAR SET £105.00

R3177 BR NRM 2 - BIL TWO CAR SET £105.00

R3260 SR 2 HAL GREEN £113.75

R3261 CLASS 08 NETWORK RAIL YELLOW £96.50

R3290 BR 2 HAL GREEN £113.75

R3293 SIGNAL SNIFFER £25.50

R3395 TTS CLASS 47 RAILFREIGHT DISTRIBUTION ON SOUND £77.75

R3405 HST WESTERN REGION BLUE/WHITE LTD EDITION £189.95

R3481 CLASS 67 EWS WESTERN STAR £99.50



COACH STOCK

R4074/8 GNR MARK 4 OPEN £22.00

R4075/6 GNR MARK 4 TOURIST £22.00

R4300/01C BR MAUNSELL CORRIDOR 1ST CL £31.70

R4304/0 BR MAUNSELL COMPO £35.00

R4338/4 UN CONVERTED BRVS OPEN 2ND £23.50

R4670 GWR CLESTORY BRKE £25.95

R4717 SR (LSWR) SFT 8 COMP BRKE £42.00

R4718 SR (LSWR) SFT 8 COMP BRKE 3RD £42.00

R4719 SR (LSWR) SFT 8 COMP BRKE 3RD COMPO £42.00

R4720 SR (LSWR) SFT 8 COMP LAW THRD CLASS £42.00

R6678/4 LMS HORSEBOX SUPER DETAILED £110.80

HORNBY RAILROAD

R2086 LNER FLYING SCOTSMAN £76.00

R4312 PULLMAN PARLOUR CAR £17.80

R4313 PULLMAN BRKE £17.80

R4332 LNER TEAK COMPO £17.80

R4333 LNER TEAK BRKE £17.80

R4350 BR MKT COMPO MAROON £17.80

R4351 MKT SK CORRIDOR 2ND MAROON £17.80

R4352 MKT BSK CORRIDOR BRKE MAROON £17.80

R4388 LMS MAROON COMPO £17.80

R4389 LMS BRKE COACH £17.80

R4392 GWR COMPOSITE £17.80

R4524 GWR BRKE £17.80

R4525 GWR RESTAURANT £17.80

R4526 GWR OPERATING MAIL COACH £20.00

R076 DOUBLE TRACK FOOTBRIDGE £14.50

R6422 CAR TRANSPORTER £16.95

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

R0012 H & M CONTROLLER DOUBLE TRACK £75.00

R0014 POINT MOTOR £7.50

R 044 POINT MOTOR SWITCH £8.50

R0206 POWER TRACK £5.30

R6243 SURFACE MOUNTED POINT MOTOR £7.50

PECO

TRACKWORK

SL 90 DOUBLE SLP £31.60

SL 80 SINGLE SLP £29.00

SL 190 DOUBLE SLP FINE SCALE £33.00

SL 180 SINGLE SLP FINE SCALE £30.05

SL 95 THREE WAY POINT £25.00

SL 189 ASYMMETRIC THREE WAY POINT FINE SCALE £30.75

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESSORIES STOCKED AT DISCOUNT PRICES

ALL PECO TRACK AND ACCESS

THE HEREFORD MODEL CENTRE

Email - Sales@herefordmodels.co.uk 4 COMMERCIAL ROAD, HEREFORD,
www.herefordmodels.com HEREFORDSHIRE, HR1 2BB

SALES LINE
01432 352809
OFFICIAL HORNBY
COLLECTORS CENTRE

SPECIAL LTD EDITIONS

37-711Y	Pack of 3 GWR Cattle wagons, Non Weathered.....	£27.20	37-557Y	TTA Shell Black 5169, Weathered.....	£10.85	37-659Z	Benzole set of Three.....	£29.95
37-711Z	Pack of 3 GWR Cattle wagons, Weathered.....	£27.20	37-730Z	GWR Vent Vans, Weathered, Set of Three.....	£25.45	33-300F	GWR Toad Brake.....	£11.35
37-577W	TTA Shell Black 5172, Weathered.....	£10.85	37-675U	Mobil set of Three.....	£29.95	32-900Y	CL108 Blue/Grey.....	£69.95
37-557X	TTA Shell Black 5178, Weathered.....	£10.85						

NEW RELEASES

31-691 BR Early Stanier Mogul.....	£135.95
31-690 LMS Stanier Mogul.....	£135.95
32-377A Class 37 Large Logo.....	£117.25
R3468 BoB 603 Sqdn.....	£144.45
31-318A LNER J11.....	£127.45
R3422 SR Adams radial.....	£109.45
R3423 BR Late Adams.....	£109.45

HORNBY

R3003	B17/6 Barnsley.....	£116.45
R3003X	B17/6 Barnsley DCC.....	£121.95
R2744	Schools Blundells BR.....	£84.95
R2784X	Malard.....	£85.00
R2917	2800 Class BR.....	£103.99
R3004	Serby Hall.....	£116.45
R3004X	Serby Hall.....	£133.45
R3229	British Monarch.....	£119.25
R3242A	K1 BR Early.....	£116.95
R3243B	K1 BR Late.....	£116.95
R3276	LMS compound.....	£66.45
R3278	Patriot Class Bradshaw.....	£70.00
R3233	LNER D16.....	£100.95
R3235	British Railways D16.....	£100.95
R3316	Fowler 2P SDJR.....	£87.45
R3318	B17 BR Early Givwell.....	£116.45
R3325	J50 BR Early.....	£69.45
R3326	J50 BR Late.....	£69.45
R3329	BR Late S15.....	£123.99
R3327	SR S15.....	£123.99
R3333	BR Early Adams.....	£107.95
R3334	BR Late Adams.....	£107.95
R3335	LSWR Adams.....	£107.95
R3371	Malard Railroad version.....	£74.00
R3395TTS	A4 Malard.....	£102.25
R3405	LNER J50.....	£78.50
R3406	BR Departmental J50.....	£78.50
R3407	BR J50.....	£78.50
R3408	GWR King Class.....	£142.25
R3413	S15 BR Late.....	£119.45
R3412	S15 BR Early.....	£119.45
R3419	SR 700 Class.....	£99.45
R3420	BR 700 Class.....	£99.45
R3422	Adams SR.....	£109.45
R3423	Adams BR.....	£109.45
R3468	Battle of Britain.....	£144.45
R3421	BR 700 Class.....	£99.45

Mail Order Service

All prices valid to 3.05.17

You must state these prices when ordering

POSTAGE & PACKING RATES PER ORDER:

• UK Standard Postage and Packing Rate £3.95

• UK Insured Postage and Packing Rate £7.10

• UK Courier Transport and Packing Rate £9.00

• Worldwide at cost • VAT free to non EC

***Train Sets/Packs and Controllers/Handsets -

Postage charged at cost***

PRICES SUBJECT TO CHANGE

WITHOUT NOTICE

***Please allow 7 days for clearance

when paying by cheque***

PLEASE QUOTE OUR SPECIAL

PRICES WHEN YOU VISIT US

CREDIT CARDS WELCOME

PLEASE STATE EXPIRY DATE

R3311	BR Schools Westminster.....	£119.45
R3409	GWR King Class.....	£142.25
R3410	BR Blue King.....	£142.45
R3411	SR S15.....	£125.95
R3444	BR Britannia Thomas Hardy.....	£137.45
R3356	Br Croft 9F Weathered.....	£104.45
R3424	LNER O6.....	£125.45
R3425	BR Early O6.....	£125.45
R3426	BR Late O6.....	£125.45
R3430	B12 LNER Green.....	£127.95
R3431	B12 BR Early.....	£127.95
R3432	B12 BR Late.....	£127.95
R3448	BR B17.....	£124.45
R3447	LNER B17.....	£124.45
R3414	LNER J15.....	£99.45
R3445	BR W.C. Camelford.....	£147.45
R3456	N15 BR.....	£137.45
R3457	SR T9.....	£116.45
R3463	S2x BR.....	£106.45
R3465	LNER N2.....	£82.95
R3461	LNER L1.....	£125.50
R3466	J94 United Steel.....	£64.45
R3467	SECR Terrier.....	£64.45
R3499	BR Hall Class.....	£72.45

Train Packs/Sets

30-049	Permanent Way Set.....	£233.70
30-285	The Midlander Set.....	£178.45
R1180	Postal Express Set.....	£124.45
R2372m	Royal Dutchey Pack.....	£95.00
R2815	Southern Suburban Ltd.....	£159.00
R3059	Tornado Train Pack.....	£128.45
R2986	Date with the Duchy.....	£179.90
R3093	Tornado Train Pack.....	£116.99
R3299	1945 Going Home.....	£259.45
R3302	Return from Dunkirk.....	£229.75
R3398	Lyme Regis Pack.....	£179.45

HORNBY

Diesel Electric Locomotives

R3260	2 HAL SR Green.....	£113.90
R3261	Class 08 Network Rail.....	£84.45
R3343	Class 08 F.G.W.....	£104.45
R3342	Class 08 BR Blue.....	£104.45
R3267XS	Class 60 Transrail w/Sound.....	£217.75
R3268	Class 67 Arriva.....	£122.90
R3275	Class 31 Dutch Livery.....	£55.45
R3373	Class 71 BR Green w/panel.....	£134.95
R3374	Class 71 BR Blue.....	£134.95
R3376	Class 71 BR Green.....	£134.95
R3177	BR 2 BII SR Green.....	£98.95
R3161B	SR 2 BII.....	£120.60
R3177	NRW 2 BII BR Green.....	£98.95
R3180	Tarmac Sentinel.....	£44.95
R3290A	BR 2 Hal Green.....	£113.90
R3262	Class 31 DCR.....	£142.45
R3346	DB Schenker Class 92.....	£70.45
R3353	Sentinel Balfour Beatty.....	£49.45
R3341A	BR Blue 2 HAL.....	£115.95
R3471	Class 50 NSE.....	£129.45
R3477	Regional Railways Cl. 153.....	£86.45
R3479	Class 60 DRAX.....	£134.45
R3483	Sentinel Crossley.....	£51.45

HORNBY TRACK

R070	Turntable.....	£59.95
R083	Buffer Stop.....	£1.65
R207	Track Fixing Pins.....	£2.50
R600	Straight.....	£1.15
R601	Double Straight.....	£1.85
R604	Curve 1st Rad.....	£1.65
R605	Double Curve 1st Rad.....	£2.05
R606	Curve 2nd Rad.....	£1.40
R607	Double Curve 2nd Rad.....	£1.95
R608	Curve 3rd Rad.....	£1.65
R609	Double Curve 3rd Rad.....	£2.25
R610	Short Straight.....	£1.10
R614	LH Diamond Crossing.....	£9.25
R615	RH Diamond Crossing.....	£9.25
R617	Uncoupling Ramp.....	£2.30
R618	Double Isolating Rail.....	£6.85
R620	Railier Uncoupler.....	£4.35
R628	Half Curve 3rd Rad.....	£1.80
R643	Half Curve 2nd Rad.....	£1.20
R8072	LH Point.....	£7.95
R8073	RH Point.....	£7.95
R8074	LH Curved Point.....	£12.60
R8075	RH Curved Point.....	£12.60
R8076	Y Point.....	£8.95
R8077	LH Express Point.....	£12.60
R8078	RH Express Point.....	£12.60
R8206	Power Track.....	£5.95

HORNBY

Track Accessories

R076	Footbridge.....	£15.10
R169	Junction Home Signal.....	£10.35
R170	Junction Distant Signal.....	£10.35
R171	Single Home Signal.....	£7.95
R172	Single Distant Signal.....	£7.95
R189	Single Brick Bridge.....	£7.95
R406	Colour Light Signal.....	£19.00
R674	Trackside Accessories.....	£12.95
R626	Point Underlay.....	£4.20
R636	Double Level Crossing.....	£20.15
R638	Track Underlay.....	£10.55
R645	Single Level Crossing.....	£12.45
R657	Girder Bridge.....	£13.50
R658	Inclined Pier Set.....	£12.65
R659	High Level Pier Set.....	£6.95
R660	Elevated Track Side Walls.....	£18.95
R909	Track Supports.....	£8.65

HORNBY

Trackside

R460	Straight Platform.....	£3.45
R462	Large Curve Platform.....	£3.45
R463	Small Curve Platform.....	£3.45
R464	Platform Ramp.....	£3.45
R495	Platform Subway.....	£3.45
R510	Platform Shelter.....	£10.95
R514	Platform Canopies.....	£11.95
R8000	Country Station.....	£31.95
R8001	Waiting Room.....	£17.95
R8003	Water Tower.....	£13.55
R8004	Engine Shed.....	£18.35
R8007	Booking Hall.....	£24.99

HORNBY

Control Equipment

R044	Point Switch.....	£8.45
R046	Two Way Switch.....	£8.45
R047	On/Off Switch.....	£8.45
R602	Power Connecting Clip.....	£1.65
R8014	Point Motor.....	£6.75
R8015	Point Motor Housing.....	£3.99

OTHER BRANDS

GV2017	GWR 0-6-0T.....	£52.45
GV2018	Black 0-6-0T.....	£52.45
OR76AR005	Adams East Kent.....	£84.45
OR76AR006	Adams SR.....	£84.45

BACHMANN

Steam Locomotives

31-001	Robinson BR Late Crest.....	£94.99
31-002	Robinson BR Early Crest.....	£94.99
31-003	Robinson LNER.....	£94.99
31-003A	Robinson O4 LNER.....	£110.45
31-004A	Robinson O4 BR Early.....	£118.95
31-070	BR Black LVR Tank.....	£93.45
31-435	Class 11 BR Early.....	£81.55
31-480	Class G2A LMS.....	£101.95
31-433	Class 11 LMS.....	£81.55
31-434	Class 11 BR Early.....	£81.55
31-204	LMS Patriot Crimson.....	£131.70
31-214	Patriot BR Early.....	£131.70
31-088	BR Black Earl.....	£118.95
31-089	GWR Earl.....	£118.95
31-128	BR ROD Weathered.....	£102.45
31-138	BR D11/2 Black Early.....	£106.20
32-154A	N Class BR Black weathered.....	£99.10
31-213DS	Patriot BR Late.....	£201.45
31-136DC	D11/2 BR.....	£115.90
31-465	C Class BR.....	£93.46
31-461A	C Class SR Black.....	£106.20
31-462A	C Class BR Early.....	£106.20
31-481	Class G2A BR Early.....	£114.70
32-178	BR Crab.....	£123.20
32-178A	LMS Crab.....	£123.20
32-227B	LMS 3F Jinty.....	£72.20
32-235	BR 3F Jinty.....	£80.70
31-614	V3 BR Late.....	£110.45
31-615	V3 BR Early.....	£110.45
31-626A	Class 3F BR.....	£71.25
31-628DC	3F BR Black Weathered.....	£93.20
31-635A	64XX GWR.....	£81.55
31-636A	64XX BR Black.....	£81.55
31-638	64XX BR Green w/td.....	£90.05
31-728	GWR City Class.....	£118.95
31-782	Thirlestaine Hall BR.....	£114.70
31-783	Fountains Hall BR.....	£114.75
31-980	Standard 3MT Green.....	£110.45
31-981	Standard 3MT BR Black.....	£101.95
32-129A	Class 45XX Early BR Black.....	£72.20
32-233	3F Jinty SDJR.....	£82.00
32-085	Class 56XX BR Early.....	£76.45
32-880	Fairburn LMS.....	£106.20
32-882	Fairburn BR Late.....	£106.20
32-954	4MT BR Black Early.....	£87.50
32-955	4MT BR Black Late.....	£87.50

32-509	BR 5MT Early Crest.....	£104.55
32-550A	A1 Tornado Apple Green.....	£109.45
32-550B	Tornado BR Green.....	£127.95
32-560	BR A1 BR Apple Green.....	£152.95
32-858	BR 9F weathered.....	£140.20
32-881	Fairburn BR Early.....	£110.45
31-933	BR Compound Late Crest.....	£112.88
31-127	CL3000 BR ROD.....	£118.45
31-932DC	BR Compound.....	£127.75

BACHMANN

Diesel/Electric Locomotives

31-268	MLV NSE.....	£83.26
31-269	MLV Jaffa.....	£83.26
31-364	Class 03 BR Green weathered.....	£76.45
31-365	Class 03 BR Blue.....	£70.50
31-366	Class 03 BR Green.....	£70.50
31-679	Class 85 Electric Blue.....	£118.45
32-067	A Class 43 BR Blue.....	£127.45
32-068	Class 43 BR Maroon.....	£127.45
32-069	Class 43 BR Green.....	£127.45
32-408	Class 25/3 BR Blue.....	£93.45
32-483	Class 40 Green.....	£118.95
32-331	Class 25/1 BR Green.....	£89.20
32-533	Class 55 Green weathered.....	£131.70
32-680	Class 45 Blue.....	£101.95
32-981	Class 66 Freightliner.....	£127.45
32-982	Class 66 DRS.....	£127.45
32-993	Wickhams Trolley Yellow.....	£67.95
32-034A	Class 20 BR Green.....	£97.70
32-038DS	Class 20 BR Blue.....	£195.45
32-045	Class 20 BR Railfreight.....	£93.45
32-065	Class 43 BR Maroon.....	£118.95
32-066	Class 43 BR Green.....	£118.95
32-784	Class 37 Mainline Blue.....	£106.20
32-785DS	Class 37 Dutch.....	£203.95
32-786	Class 37 EWS.....	£106.20
32-906	CL108 2 car Green.....	£93.50
32-762DS	Virgin Class 57 Hood.....	£203.95
32-815	Class 47 InterCity.....	£89.20
31-327	CL105 BR Blue Green.....	£79.45
31-535	CL105 BR Blue Power Twin.....	£84.45
32-381	N Class 37 DRS.....	£117.25
32-928	Class 150 Sprinter.....	£135.95
32-937	Class 150 Centro.....	£127.45
32-992	Wickhams Trolley Yellow.....	£67.95
31-677	CL85 BR Blue.....	£85.99
31-575	Windhoff MPV NWR.....	£104.00
31-576DC	Windhoff MPV NWR.....	£114.00
31-577	Windhoff Railtrack.....	£104.00

HELJAN LOCOMOTIVES

9005	Metropolitan No 19.....	£106.95
9006	Metropolitan No 6 William Penn.....	£106.95
9008	London Transport No12 Sarah Siddons Preserved.....	£106.95
9009	London Transport No12 Sarah Siddons 1990s.....	£106.95
H1300	1361 Photo Grey.....	£122.45
H1301	1361 GWR s.button.....	£122.45

ORDER BY TELEPHONE

Orders taken 6 days a week

9 - 5.30 Monday to Saturday

01432 352809



RAILS EXCLUSIVES 2017

Photo: Richard Gennis GBRF



RAILS NEW EXCLUSIVES 2017

- 1. Bachmann 32-979W** Class 66 66727 'Maritime One' GBRF
Maritime**£169.95**
- 2. Bachmann 32-726X** Class 66 66614 'Poppy' Freightliner
.....**£169.95**
- 3. Bachmann 32-384Y** Class 37 37425 'Sir Robert MacAlpine/Concrete Bob' BR Construction Sector
.....**£149.95**

SOUNDS LIKE A GREAT DEAL!

Hornby R3284TTS RailRoad LNER 4-6-2 Flying Scotsman A1 Class Locomotive with TTS Sound	£119.95 £79.50
Hornby R3285TTS RailRoad LNER Blue 4-6-2 Gadwall A4 Class Locomotive with TTS Sound	£119.00 £69.50
Hornby R3384TTS BR 4-6-0 'King George I' 6000 King Class, Late BR with TTS Sound	£109.50
Hornby R3388TTS Bo-Bo Class 67 'Cairn Gorm' 67004 Caledonian Sleeper with TTS Sound	£99.50
Hornby R3390TTS Class 43 HST Virgin Rail East Coast with TTS Sound	£279.99 £159.50
Hornby R3393TTS RailRoad Class 47 033 Railfreight Diesel Locomotive with TTS Sound	£69.50
Hornby R3395TTS RailRoad LNER 4-6-2 'Mallard' A4 Class Locomotive 4468 with TTS Sound	£122.95 £79.50
Hornby R3459TTS BR Black (Early) Fowler Class 2P 4-4-0 Locomotive 40626 with TTS Sound	£94.50
Hornby R3460TTS BR 0-6-0 Fowler 4F Class 44198 Late BR with TTS Sound	£89.50

SOUND CHIP OFFERS

Hornby R3284TTS chip Class A1 Flying Scotsman Steam Locomotive DCC TTS Sound Decoder and Speaker	£39.50
Hornby R3285TTS chip Class A4 Steam Locomotive DCC TTS Sound Decoder and Speaker	£39.50
Hornby R3390TTS chips Pair of HST Class 43 Locomotive DCC TTS Sound Decoders and Speakers	£79.50
Hornby R3393TTS chip Class 47 DCC TTS Sound Decoder and Speaker	£39.50
Hornby R3459TTS chip Fowler Class 2P Steam Locomotive DCC TTS Sound Decoder and Speaker	£49.50
Hornby R3460TTS chip Fowler Class 4F Steam Locomotive DCC TTS Sound Decoder and Speaker	£49.50

LATEST HORNBY AT GREAT PRICES!!

R3500 The Sir Nigel Gresley Collection	£549.99 £395.00
R3396TTS RailRoad BR 2-10-0 92025 Franco Crosti Boiler 9F Class with Sound	£119.50
R3445 BR 4-6-2 'Camelford' 34032 West Country Class BR Early, Air Smoothed	£129.50
R3465 LNER 0-6-2T '4765' N2 Class Locomotive	£59.50

R3486 Co-Co Diesel 'DP World London Gateway' 66185 Class 66 Locomotive	£59.50
R3471 NSE CO-CO Diesel Electric 'Indomitable' 50026 Class 50 Diesel Loco	£170.49 £119.50
R3479 Class 60 066 Drax 'Powering Tomorrow' Co-Co Diesel Locomotive	£119.50
R3487 Co-Co Diesel 'James Nightall GC' 66079 EWS Class 66 Locomotive	£69.50
R3373 BR Green Class 71 - E5001 Electric Locomotive (NRM As Preserved)	£99.50
R3374 BR Blue Class 71 012 Electric Locomotive	£169.99 £89.50
R3376 BR Green Class 71 - E5022 Electric Locomotive	£99.50
R3333 BR Black (Early) 4-4-2T Adams Radial 415 Class Tank Locomotive 30584	£74.50
R3334 BR Black (Late) 4-4-2T Adams Radial 415 Class Tank Locomotive 30582	£131.99 £74.50
R3276 RailRoad LMS 4-4-0 Compound with Fowler Tender	£44.50
R3356 RailRoad BR 2-10-0 Crosti Boiler 9F Class (Early BR) Weathered 92021	£89.50
R3371 RailRoad LNER 4-6-2 'Mallard' A4 Class Locomotive	£64.50
R3497 RailRoad BR 'D9016' Class 55 Diesel Electric Locomotive	£44.50
R3408 GVR 4-6-0 'King Edward V' 6000 King Class Locomotive #6016	£99.50
R3409 BR 4-6-0 'King William IV' 6000 King Class Late BR Locomotive #6002	£181.99 £99.50
R3410 BR 4-6-0 'King Henry III' 6000 King Class Early BR Locomotive	£99.50
R3411 Southern Black 4-6-0 827 Maunsell S15 Class Locomotive #827	£79.50
R3412 BR Black (Early) Maunsell Class S15 4-6-0 Steam Locomotive 30842 (A/B)	£89.50
R3413 BR Black (Late) Maunsell Class S15 4-6-0 Steam Locomotive 30831	£89.50
R3424 LNER 0-8-0 Raven Q6 Class Locomotive 3418	£99.50
R3425 BR 0-8-0 Raven Q6 Class BR Early Locomotive 63443	£154.99 £99.50
R3426 BR 0-8-0 Raven Q6 Class BR Late Locomotive #63429	£99.50
R3433 LNER 4-4-0 'Claud Hamilton' D16/3 Class Locomotive	£89.50
R3441 LNER 4-6-2 'Sir Murrrough Wilson' A4 Class Wartime Black Loco 4499	£99.50
R3444 BR 4-6-2 'Thomas Hardy' Britannia Class Early BR 4-6-2 Locomotive 70034	£174.99 £109.50
R3171 LNER Green 'Cock O' The North' P2 Class 2-8-2 Locomotive #2001	£64.50
R3401 The Bristolian Train Pack - Ltd Edition	£304.99 £169.50

R3261 Network Rail 0-6-0 Class 08 417 Diesel Shunter Locomotive	£99.99 £69.50
R3343 First Great Western Class 08 822 Diesel Shunter Locomotive 'John'	£79.50
R3390 Virgin Class 43 HST Pack DCC Ready (Non Sound)	£229.99 £99.50
R3501 Virgin East Coast Train Pack - Limited Edition	£144.50
R3403 Intercity 125 40th Year of Service Anniversary Class 43 HST Train Pack - Ltd Edition	£144.99 £179.50

BACHMANN BARGAINS

25-2014 CL47 OO Gauge Class 47 164 BR Blue Union Jack Diesel Locomotive (Split from set)	£89.50
25-2014 JUB BR Green 'Silver Jubilee' Jubilee Class 4-6-0 Steam Locomotive 45552 (Split from set)	£89.50
30-049 Loco Class 20 088 BR Triple Grey Diesel Locomotive with DCC Sound (Split from set)	£139.50
30-049 Coaches Pair of Permanent Way Re-Railing Equipment MK1 Coaches (Split from set)	£79.50
30-049 Controller 36-500 E-Z Command DCC Digital Control Centre Controller and Transformer (Split from set)	£49.50
30-525 The Shakespeare Express Collectable Train Pack	£219.99 £129.50
31-575 Windhoff MPV Multi-Purpose Master and Slave Network Rail	£149.95 £79.50
31-535 Class 105 2 Car DMU BR Blue Yellow Ends (Power Twin Unit)	£119.95 £74.50

HELJAN 'O' GAUGE STAR BUY!

5350 Heljan Class 53 D0280 FALCON in 'as-built' lime green and brown livery with original printed nameplates	£699.00 £495.00
5351 Heljan Class 53 D0280 FALCON in BR two-tone green livery with small yellow warning panels and etched nameplates	£699.00 £495.00
5352 Heljan Class 53 1200 FALCON in BR blue livery with full yellow ends and etched nameplates	£699.00 £495.00
4203 Heljan Class 42 Warship D815 'DRUID' in Maroon with full yellow ends	£699.00 £495.00
4204 Heljan Class 42 Warship D866 'ZEBRA' in Blue with Full Yellow Ends and Double Arrow Symbols on the cabsides	£699.00 £495.00
4205 Heljan Class 42 Warship 829 'MAGPIE' in Blue with Full Yellow Ends and Centrally Placed Double Arrow Symbols	£699.00 £495.00



dapol DAPOL AT BARGAIN PRICES

N GAUGE OO GAUGE O GAUGE

GOLD STAR STOCKISTS

FULL RANGE STOCKED

Call us or see our website for more details and bargain prices

ESU Loksound AT BARGAIN PRICES

V4.0 Steam Sound	Classes A4 Pacific, A1/A2 Pacific, A1 Pacific 'Tornado'	£94.50
Decoder with Speaker	GWR Pannier 57xx, GWR Manor 78xx, BR/LMS Mogul, 4MT Tank, Jubilee, BR/LMS Fairburn, Ivatt Class 4, 3F Jinty, Bulleid Pacific	
V4.0 Diesel Sound	Classes 03/08/20/24/25/31/37/40/43 HST/44/45	£94.50
Decoder with Speaker	47/50/52/55/57/66/67/108 DMU/158 Sprinter	
DCCSFIT	Fitting service for all OO gauge Steam Classes	£25.00
DCCDFIT	Fitting service for all OO gauge Diesel Classes	£25.00

All sound decoders are available with either 8 or 21 pin connectors, several of the steam decoders are suitable for use in other locomotives. See our website for more details.

50010	ECoSBoost ext Booster 4A DCC/MOT/SX/mfx	£202.50
50011	ECoSBoost ext Booster 8A DCC/MOT/SX/mfx	£379.50
50095	ECoSDetector Extension Module – 32 outputs	£42.50
50210	ECoS 2.1 Command Digital System 15-21 6A Colour	£529.50

DECODER FITTING SERVICES

DCCFIT6	DCC Decoder fitting service for N gauge 6 pin DCC Ready locomotives	£29.50
DCCFIT8	DCC Decoder fitting service for OO gauge 8 pin DCC Ready locomotives	£29.50
DCCFIT21	DCC Decoder fitting service for OO gauge 21 pin DCC Ready locomotives	£29.50

The charges for our fitting services are inclusive of the cost of the decoder which will either be a Hornby 4 or Bachmann 3 function decoder chosen at our discretion.

HELJAN AT BARGAIN PRICES

OO GAUGE O GAUGE

FULL RANGE STOCKED

Call us or see our website for more details and bargain prices

3710	Class 37 (Centre Headcode) in Green with small yellow warning panels (un-numbered)	£475.00
3711	Class 37 (Centre Headcode) Green, full yellow ends (un-numbered)	£475.00
3712	Class 37 (Centre Headcode) Blue, full yellow ends (un-numbered)	£475.00
3714	Class 37 (Centre Headcode) Railfreight red stripe livery (un-numbered)	£475.00
3715	Class 37 (Centre Headcode) Engineers 'Dutch' yellow/grey livery (un-numbered)	£475.00
3716	Class 37 Railfreight Coal Unnumbered (Ctr Headcode)	£475.00
3717	Class 37 Railfreight Speedlink Unnumbered (Ctr Headcode)	£475.00

dapol DAPOL AT BARGAIN PRICES

4D-022-003	Dapol 4D-022-003 Class 68 68010 Chiltern	£123.72
4D-022-004	Dapol 4D-022-004 Class 68 68014 Chiltern	£123.72
4D-022-005	Dapol 4D-022-005 Class 68 Daring 68006 Scotrail	£123.72
4D-022-006	Dapol 4D-022-006 Class 68 Valiant 68007 Scotrail	£123.72

PHONE/ORDER HOTLINE

(0114) 2551436

Open 9:00am - 5:00pm

24 Hr Answerphone service for orders



Gift Vouchers

Why not treat someone to a
Rails of Sheffield Gift Voucher.
Purchase by phone or through our website.

GAUGEMASTER GAUGEMASTER AT BARGAIN PRICES

DCC01	Prodigy Express Package	£119.95
DCC02	Prodigy Advance Package	£209.50
DCC03	Prodigy Advance 2 Wireless Starter Set	£359.50
DCC13	Prodigy Advance 2 Wireless Walkaround	£149.50
DCC14	Prodigy Advance 2 Backlit Walkaround	£106.50
DCC23	6 Pin N Gauge Plug-in Decoder	£21.00
DCC27	OMNI 21 & 8 Pin Decoder	£15.95
DCC30	Accessory Decoder	£50.00
DCC40	Auto Reverse Module	£34.00
DCC51	Prodigy Wireless Conversion Set	£199.50
DCC55	Prodigy Advance Wired Computer Interface Cable	£47.95
Model D	Twin Track Controller	£67.50
Model Q	Four Track Controller	£129.50
PM1	Point Motor with Accessory Switch	£3.99
PM2	Point Motor	£3.50
PM4	Point Motor Self Latching with Switch	£4.95
100M	Single Power Controller	£67.95

PECO PECO AT BARGAIN PRICES

FULL RANGE STOCKED

All Gauges Track and Accessories
Call us or see our website for more details and bargain prices

DJ MODELS AT BARGAIN PRICES

Advance Orders Now Being Taken
for the new DJ Models Range
Call us or see our website for more details and bargain prices

OOJ94-002	Class J94 0-6-0 Steam Loco #68061 BR original bunker height	£81.50
OOJ94-003	Class J94 0-6-0 Steam Loco #8064 LNER with original bunker height	£81.50
OOJ94-004	Class J94 0-6-0 Steam Loco #8023 LNER with original bunker height	£81.50
OOJ94-005	Class J94 0-6-0 Steam Loco #8068 BR with tall bunker	£81.50
N17-001	Class 17 Clayton BR Blue Diesel Loco D8574	£97.50
N17-002	Class 17 Clayton BR Blue Diesel Loco D8512	£97.50
N17-003	Class 17 Clayton BR Green with small yellow warning panel Diesel Loco D8555	£97.50
N17-004	Class 17 Clayton BR Green with small yellow warning panel Diesel Loco D8536	£97.50
N17-005	Class 17 Clayton BR Green with small yellow warning panel Diesel Loco D8501	£106.50
N17-006T	Class 17 Clayton Diesel Loco D8574 BR blue (powered) + D8583 BR blue (dummy) Twin Pack	£127.50
N17-007T	Diesel Loco D8616 BR green SYWP (powered) + D8561 BR green SYWP (dummy) Twin Pack	£127.50

RAILS ON EBAY



RAILS OF SHEFFIELD



100's OF ITEMS ADDED DAILY



RAILS OF SHEFFIELD



VISIT OUR **RAILS-SHEFFIELD** EBAY STORE

SPECIALISING IN QUALITY NEW & SECOND-HAND MODEL TRAINS, DIECAST & OTHER RARE & HIGHLY SOUGHT-AFTER COLLECTIBLES

VISIT OUR **RAILS-VAULT** EBAY STORE

SPECIALISING IN SECOND-HAND ACCESSORIES, DIECAST, RESTORATION PROJECTS, SCENICS & OTHER MISCELLANEOUS MODELS

ALSO STOCKED AT BARGAIN PRICES

In addition to full ranges from all the manufacturers featured here we also offer full ranges from:



and many more. If you can't find the product you are looking for on our website then please contact us and we can order it in for you.

Check out our **ebay** stores to see what discontinued and rare items we have on offer and for your chance to pick up a second-hand bargain today.

Visit: <http://stores.ebay.co.uk/Rails-Of-Sheffield>

Visit: <http://stores.ebay.co.uk/The-Rails-of-Sheffield-Vault>

MODEL RAILWAYS BUY – SELL – EXCHANGE ANY GAUGE ANY AGE TOP PRICES PAID

www.railsofsheffield.com

CASH TODAY

**Money for your secondhand
locos & rolling stock**

"I would just like to say how impressed and pleased I am with my selling experience with Hatton's. It was a smooth and efficient process from beginning to end."

Mr C Isgar, Dorset

"I was very pleased with the price offered by Hatton's and the simplicity of the service - I hope you find happy new owners for my locomotives"

Mr R Thompson, Surrey

Step 1

Contact us with your list of items

Email your list of items to:
preowned@hattons.co.uk

Post your list to:
17 Montague Road, Widnes, WA8 8FZ



Step 2

Our experienced staff **Review** your list

A **Valuation** is made of your items

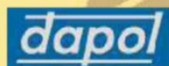


We make you an **Offer**

(usually within 24 hours)

All brands purchased:

(including)



Step 4

We confirm the offer &

make **Payment**

Fast and secure with your choice of either
Cash - Bank Transfer - PayPal - Cheque



Step 3

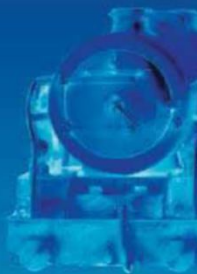
Either **Send** us your items
Or we arrange to **Collect**, then **Check**
through the list



"I've bought from Hatton's for years and the trade-in service is just as efficient and friendly as usual - great service!"

Mr H Moorhouse, Lincoln





Cobalt 90° Adapter

**The simplest way to reduce mount depth
& increase Cobalt installation versatility.**

Cobalt iP Digital & the Cobalt family are already the easiest-to-install and most reliable turnout motors available, but now and again, modellers who are short of space or between-baseboard headroom have asked us if we were able to find a way for them to mount them differently.

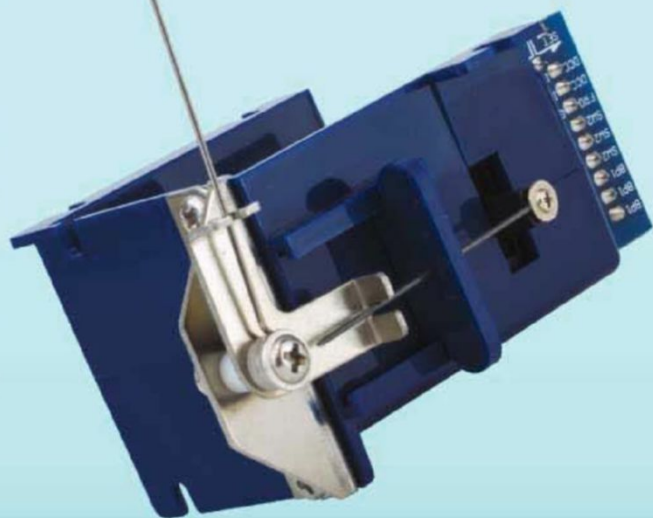
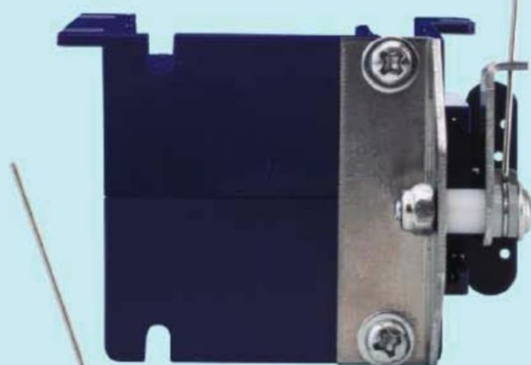
We listened... and Cobalt DCP-RA3 is our answer.

Packed in 3's and provided with all of the nuts and bolts you will need to mount them, these economical all-metal mounting adapters are simple to fix onto the mount points you would normally use for under-board installation...

Once they are mounted, Cobalt's drive system is rotated 90 degrees and its mount depth is reduced to a comfortable 40mm... a reduction of 27mm compared to a standard installation!

Cobalt is then secured to the baseboard with the screws provided... using the alternative mount positions that we had already built-in!

Easy to use - and effective!



TOP TIP:

The Cobalt 90° mounting adapters are also very useful for assisting you with above-board mounting of Cobalt motors in your fiddle yards and hidden areas.

Cobalt point motors and all other DCCconcepts products are distributed world-wide by DCCconcepts Pty. Ltd
3/13 Lionel St, Naval Base WA 6165 Australia P+61 8 9437 2470 F+61 8 9437 2471 www.dccconcepts.com

DCCconcepts welcomes Retailer & Distributor enquiries. In the UK, DCCconcepts products are distributed by Gaugemaster Controls Ltd., Ford Rd, Arundel BN18 0BN Ph. +44 1903 884 488 www.gaugemaster.com

**Possibly Hampshire's
Largest Stockist
of Model Railways,
Die-Cast,
Books,
Magazines,
Scalextric
and much
more.**



Monday: Closed
Tuesday to Saturday: 9.00am to 5.00pm
Sunday: see website / call
Tel: 01420 542244
altonmodelcentre.co.uk

Full range of model railway products from the leading manufacturers including:

Hornby, Bachmann, Dapol, DJ Models, Graham Farish, Heljan, Oxford Rail, Peco, Dapol, Ratio, Wills, Superquick, Metcalfe, Gaugemaster, Parkside, Railmatch, South Eastern Finecast, Woodland Scenics and many, many more.

DCC equipment from DCC Concepts, ESU, Gaugemaster, Hornby and Bachmann. Sound decoders from South West Digital.

Also stockists of Die cast models including:
Corgi, EFE, Oxford Die-Cast, Base Toys & Classix.

Modelling materials & tools.

New! Now stocking Vallejo Model Colour
AK pigments and washes

Wide selection of books, DVDs, videos and magazines.



brimal.co.uk

Sales 01429 297277

Introducing the NEW CP800 Sound Controller
With real recordings done on location around the UK

The CP800 SOUND CONTROLLER

for Model Railway layouts
Comes complete with 15
live recorded sounds, 8
sets of track sensors,
Built in speaker or ext
Speaker. Power from
separate supply or your
Layout 12VDC supply. SD Cards also available
for STEAM, DIESEL, UNDERGROUND & DCC Atmosphere.

Part No: CP800 see the Video on our site



Baseboard Hardware

We supply alignment Dowels,
Section Locking Catches,
and adjustable feet all for your MR
table or Base-board



Multicore Cable

Multicore Cable from 4 core up to
25 core. Also available as
screened cable in 8 & 12 core.

CB599 to CB627



Mini Toggle Switches

Toggle switch with Red/Green
LED and Terminal Block
connectors. Momentary
(ON)-OFF-(ON) SW301-1,
ON-OFF SW305-1
ON-OFF-ON SW303-1



Power Distribution Board

An DC Power Distribution Board
- if you are not into soldering.
Ideal for Bus Bar or general
local distribution, etc.
CN165



Momentary Switch Memory

Indicates the last position of a
momentary switch or the position
of points without sensors
MR204



Equipment Wire

1/0.6 wire in 9 colours
7/0.2 wire in 9 colours
16/0.2 wire in 12 colours
24/0.2 wire in 11 colours
32/0.2 wire in 12 colours
Available in 100m rolls or
10m spools



Additional Power Supply 5v or 12v 5A

You never know when you
require some additional power
for accessories available in
12v or 5v at 5 Amps

We now have a Stock Catalogue. Please contact us on 01429 297277 for a copy

Have a look on thehobbyshed.co.uk for Inspiration & Solutions

We accept all forms of Payment on the web site brimal.co.uk If you have any problems ordering please contact us

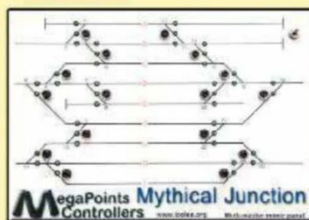
MegaPoints Controllers

Awesome layout control system

MegaPoints Servo Controller features:-

- Control up to 12 points or semaphores!
- Can be used for gates, uncouplers, barriers, doors etc.
- Simple setup – programming buttons on the main board!
- Variable speed control and reversing.
- Built in memories for quick route setup!
- All connections via plugs (supplied), no soldering needed.
- Uses industry standard servos costing as little as £1.50 each!
- Amazing semaphore bounce realism - physics modelled
and random, each bounce is subtly different!
- Works with analogue, DCC, steam, any gauge.

Control your layout from one
or more mimic panels using
just a single cable.
See the videos on
our web site.

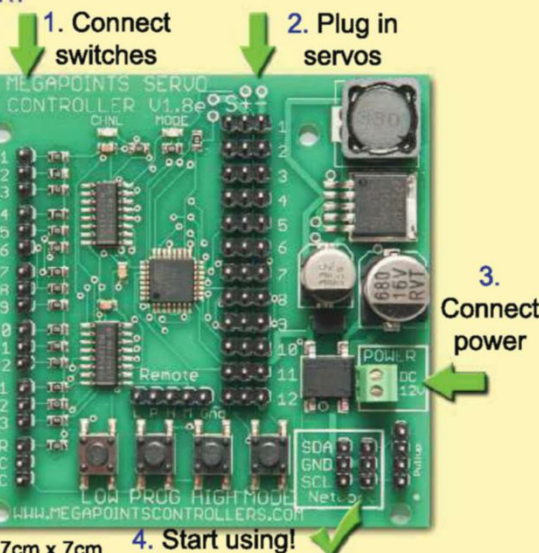


MegaPoints Controller £60

DCC Module £30

Prices inclusive of VAT

Includes semaphore
bounce - see web
for details



Size 7cm x 7cm

4. Start using!

Web & details: www.megapointscontrollers.com

Designed and built in sunny Cheshire, UK.

Rev: 16-03

NEW! **FULLY AUTOMATIC SIGNALS!**
SENSOR SIGNAL - BUILT IN SENSOR - DC & DCC!

For OO/HO



- Signals sense the train and change automatically!
- Use singly or link with 1 wire for automatic block signalling
- All completely self contained in signal - no separate sensor
- Sensor Signals slide into DCC track or just wire to DC supply
- Can link to mimic switch for occupancy and signal display
- 2, 3 or 4 aspect signals with feathers or theatres from £40

ALL IN OUR NEW FREE BROCHURE - JUST EMAIL OR CALL

Train-Tech
 Model Technology Made Easy

DCP Express, Bryon Court, Bow Street,
 Great Ellingham, Norfolk, NR17 1JB
www.dcpexpress.com

sales@dcpmicro.com / 01953 457800

£4 UK P&P - this month quote MR234 for £2 off postage! 

ELLIS CLARK TRAINS

Ellis Clark Trains
 Unit 13 Baildon Mills
 Northgate, Baildon
 Shipley, West Yorkshire, BD17 6JX

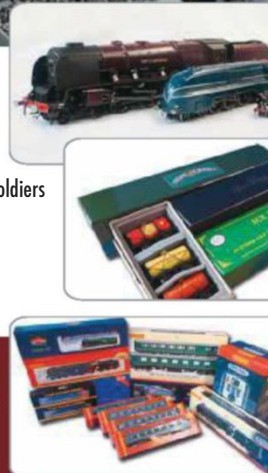
WANTED

Top prices paid for your collections
 of model railways, diecast & tinplate
 For more info call Ellis on 07799 554491

- ✓ Call, email or post a list
- ✓ All makes, gauges and ages considered
- ✓ British, Continental and American
- ✓ All gauges of kit/scratch built and live steam
- ✓ Diecast and tinplate cars, lorries, buses, planes, soldiers
- ✓ Payment in your preferred method
- ✓ Happy to travel nationwide and view or collect
- ✓ Large collections a speciality
- ✓ Friendly and professional service

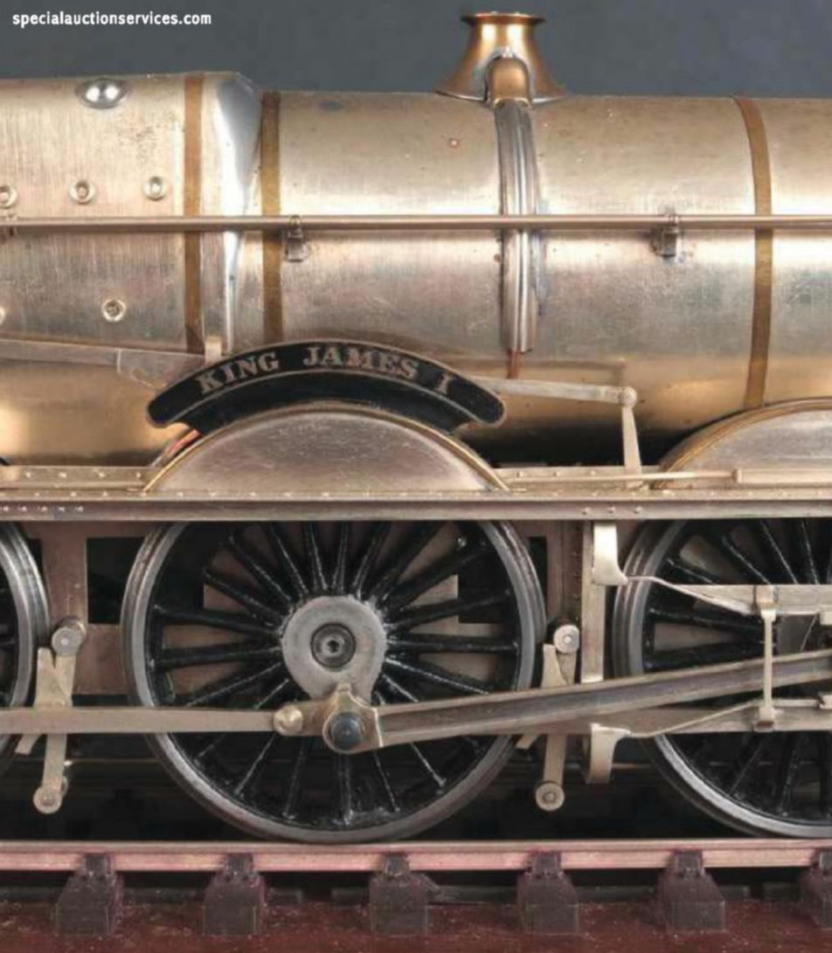
NEW e-commerce website coming soon

T 01274 809317
 M 07799 554491
 E ellis@ellisclarktrains.com
 W ellisclarktrains.com



SAS Est. 1981
specialauctionservices.com

Express Trains 27 April, 25 May
Fine Trains and Toys 21 & 22 June



With more than ten auctions a year,
 our sales of this type are the largest
 in the UK.

For further information on our auctions,
 to consign or to get a valuation,
 please contact:
 Hugo Marsh, Bob Leggett or Graham Bilbe
 on +44 (0)1635 580595
 or hugo@specialauctionservices.com

*Detail from a superb 7mm fine scale GWR
 'King James I', scratch-built by James Bremner,
 'Model Engineer' Silver Medal, 1973*

**81 Greenham Business Park,
 Newbury RG19 6HW**

*We are proud to sponsor
 the Brighton Toy and Model Museum
www.brightontoymuseum.co.uk*



Sig-naTrak®

Model railway electronics by GFB Designs

Our DCC controller - now even better!

- ★ Up to 9999 train and 2044 accessory addresses
- ★ Trains and accessories can be named
- ★ Easy to use - elegant, clearly-labelled touch keys - clear, colour graphical display
- ★ Drive from the touch panel, or optional handsets
- ★ Generous 3.5A or 5A output!
- ★ USB interface now built in as standard!

The ACE-2
NMRA-compliant DCC controller with full decoder programming and reading functions. Compact: only 220x150x45mm!

and for accessories.....

The IMP (part no: DSI1001)
Servo controller - DCC or DC.

The GEM (part no: DPD2001)
Point motor - DCC or DC.

£192.00 DCS2044-2 3.5A

£204.00 DCS2044-2H 5A

£14.00

£28.00

£17.00

The DRIVER
(BHS1204)
ACE Handset.

See website or send large-letter SAE for more details. (prices inc. VAT, p+p extra)
GFB Designs - WE put YOU in control!

Layout control modules - DCC or LocoNet™

DAC22 Accessory Decoder - 8 outputs, built-in CDU.	£85.00
SIGM20 Colour-light Signal Controller - 6 or 8 outputs.	£54.00
DTM30 Digital Tower Master - 30 inputs & outputs.	£63.00
DSS1 Loco Shuttle - automatic train running sequences.	£80.00
TXC1 Turntable Controller - automatic indexing.	£80.00
MSC8 Scenery Animator - control lights, motors & servos.	£30.00

67 Boddens Hill Road, Stockport, SK4 2DG
Tel: 0161 883 2022; fax: 0161 883 2077
Email: info@signatrak.co.uk; Web: www.signatrak.co.uk

- WANTED -
MODEL RAILWAY
AND COLLECTABLES

Small or large collections
in any scale.
Almost anything will be
considered
Top cash prices paid

01302 371623
07526768178



**WE WANT
YOUR
Model
Railways**

ANORAKS ANONYMOUS
anoraksanonymous@googlemail.com



ADM TURNTABLES

INDEXING DRIVE SYSTEM MANUFACTURERS

www.admturtables.co.uk

**The ultimate Indexing Turntable for
OO and N Gauge; plus Drive
Systems for other gauge sizes**

- N & OO gauge - based on a popular turntable
- Single or Multiple Use
- Unique Belt Driven Solution
- Quiet Running System
- Bridge Live Through 360°
- Up to 100 Indexable Positions
- Suitable for DCC or Analogue
- Suitable for DCC or Analogue
- DCC controllable
- Simple to use Controller
- Easy to Programme
- Full Two Line Digital Display
- Fully Assembled & Tested
- Easy to Install and Operate



Designed and built in the UK

ADM Turntables Tel: 01933 411127 Mobile 07770 977867
Email: alastair@admturtables.co.uk Website: www.admturtables.co.uk

FINE SCALE BRASS

Unit 5 Matrix Court, Leeds, LS11 5WB Tel 01132761759 Email john@finescalebrass.co.uk

Fully finished ready to run 12V DC electric models gauge 1 (1/32nd) hand build in brass, painted and lined in the UK. Special offer on stock models

www.finescalebrass.co.uk



LMS 8F £1750.00



BR 8F £1750.00



BR or GWR 14XX £825.00



GWR HALL £1850.00



BR HALL £1850.00



BR JUBILEE £1850.00



LMS JUBILEE £1850.00



PRESERVED GREEN 4MT £1375.00



BR 4MT £1350.00

All models can be battery powered & radio controlled for £350.00.

A range of wagons and coaches are available, check our website for details or write/telephone for a free catalogue.

Our prices include UK VAT & mainland carriage, we accept all major credit cards



BR or LMS BLACK 5 £1650.00

AC Models

Tel. 02380 610100 www.acmodelseastleigh.co.uk

Your one stop shop for the model enthusiast, selling brand new and near-new model trains, slotcars, sets, and diecast toys at very special prices direct from our website or new shop in Eastleigh.

Stockists of
SCALEXTRIC **HORNBY** **LILIPUT**
SPRUE **PECO** **AIRFIX** **EACHMANN**
BRANCH-LINE
and much more!
**GIFT
VOUCHERS
AVAILABLE**
VISA **PayPal** **MasterCard**

Models moved to No9 and

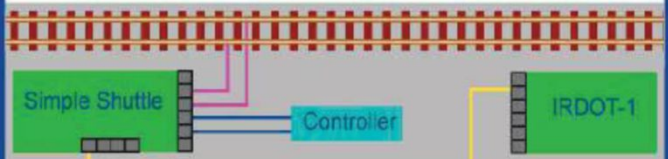
Games Workshop/Spares Dept at No7.

We now have a R/C Department at No7

Open 5 days a week 9am-5pm (Both shops closed Wednesday & Sunday)

 7/9 High Street, Eastleigh, Hants. SO50 5LB
 email: info@acmodelseastleigh.co.uk
www.heathcote-electronics.co.uk

The **SIMPLE SHUTTLE** controls a train running backwards and forwards. Trains pause for an adjustable delay at each end of the line. The Simple Shuttle has built in infra red train detection. An IRDOT-1 provides detection at the other end of the line. Advantages include: works in light or dark and no modifications to track or rolling stock.



Wiring is simple. Apart from connections to a 12 to 16 volt (AC or DC) power supply the diagram shows all the wiring. The Simple Shuttle can also be used where there are sidings at one end of the line. A train arrives in one siding, the points automatically change and a different train departs after the delay. This uses a simple shuttle and an IRDOT-P at the end of every siding. Track power is obtained from a conventional controller.

Special offer, valid for this issue:

Simple Shuttle plus IRDOT-1 £29.90 including postage.

For fast trains where gradual slowing and acceleration are required we have a range of controls for shuttles with and without sidings, station stops, passing loops, automatic storage sidings etc.

We also have a range of infra red train detectors and signal controls for semaphore and colour light signals.

See our informative website for information about all our products

www.heathcote-electronics.co.uk

 email: cah@heathcote-electronics.co.uk phone: 01538 756800
 Heathcote Electronics, 1 Haydock Close, Cheadle, Staffs, ST10 1UE

WANTED

MODEL RAILWAY & COLLECTABLES

Top Prices Paid

*For all makes, all gauges and live steam,
aeroplane kits, boats, die cast etc.*

Instant cash paid

Will travel to collect

DB
MODELS LTD
01778 420 066
07723 336344
email: dbmodels@live.com

Unit 3 The Arena, Roman Bank, Bourne, Lincolnshire, PE10 9LQ

=C=RAIL= INTERMODAL

Next project is a departure from just containers and will be offering it first....

RTR WAGON IN N GAUGE WATCH THE WEBSITE AND THE PRESS FOR DETAILS.

Advanced orders will be taken soon

THE N GAUGE 40FT HC ARE NOW READY FOR PRODUCTION AND WE WILL BE TAKEN ORDERS SOON FROM THE WEBSITE.

WE HAVE THE BIGGEST RANGE OF CONTAINER MODELS RTR AND KIT FORM IN THE UK

C-RAIL INTERMODAL

'Morven', Roome Bay Avenue, Crail, Fife KY10 3TR Tel: 01333 450976
www.c-rail-intermodal.co.uk



Blackwells Of Hawkwell
Miniatures Specialists
Tel: 01702 200036 or 01702 204 210
Sales@blackwells-miniatures.com

Heki Tree's & Scenics
www.blackwells-miniatures.com

Make your layout stand out with Heki Trees & Scenic Materials
Quality at affordable prices

Order Online or just call to find out about the Biggest and Best range of Scenics on the market today.

Heki 2015 Catalogue £7.95 post paid

Trade Supplied

P.O.Box 2099, Hockley, Essex. SS5 4UY
Tel 01702 200036 e mail sales@blackwells-miniatures.com

Trade Supplied

C&M Models

DUE EARLY SPRING

'N' Gauge Mermaid Ballast Wagons

Models may differ from some of those shown here

1 CROSBY STREET, CARLISLE CA1 1DQ Tel: 01228 514689
Web: www.candmmodels.co.uk E-mail: sales@candmmodels.co.uk
Opening hours: Tuesday to Saturday, 10.00 to 17.00

LASER CUT ACCESSORIES IN OO / 4MM SCALE

LX106-00 Drainage Catchpits

Supplied unpainted

From Only £3.99 + P&P

Order online or call 01530 456952

SWINDON

SPOT-ON MODELS
49 FLEET STREET, SWINDON
WILTS, SN1 1RE
TEL 01793 617302

PECO CODE 100 FLEXITRACK 1 YARD LENGTHS WOODEN SLEEPER
SL-100 Pack of 5 £15.00
SL-100 Pack of 10 £27.50
SL-100 Pack of 25 £66.00

PECO CODE 75 FINESCALE FLEXITRACK 1 YARD LENGTHS WOODEN SLEEPER
SL-100F Pack of 5 £16.00
SL-100F Pack of 10 £29.50
SL-100F Pack of 25 £72.00

PECO CODE 100 STREAMLINE
SL-91 RIGHT HAND SMALL POINT £8.89
SL-92 LEFT HAND SMALL POINT £8.89
SL-95 RIGHT HAND MEDIUM POINT £9.85
SL-96 LEFT HAND MEDIUM POINT £9.85
SL-88 RIGHT HAND LARGE POINT £11.20
SL-89 LEFT HAND LARGE POINT £11.20
SL-86 RIGHT HAND CURVED POINT £11.99
SL-87 LEFT HAND CURVED POINT £11.99
SL-93 SHORT CROSSING £8.20
SL-94 LONG CROSSING £9.50
SL-97 SMALL RADIUS Y POINT £9.00
SL-98 LARGE RADIUS Y POINT £10.50
SL-99 MEDIUM RADIUS 3 WAY £24.50

HORNBY LOCOS (LIMITED AVAILABILITY)
R3283 RAILROAD BAGNALL SHUNTER RED £26.99
R3478 CLASS 43 HST PACK 1ST GREAT WESTERN £197.99
R3288 RAILROAD CLASS 9F EVENING STAR £87.99
R3467 CLASS A1X TERRIER £68.00

BACHMANN LOCOS (LIMITED AVAILABILITY)
31-783 MODIFIED HALL 'FOUNTAINS HALL' BR E/E weathered £115.00
31-782 MODIFIED HALL 'THIRLESTINE HALL' BR L/C weathered £115.00
31-638 CLASS 64xx 0-6-0 PANNIER 6419 BR weathered £91.00
32-992 WICKHAM TYPE 27 TROLLEY BR ENGINEERS YELLOW £68.00

UK POST & PACKING £4.00 PER ORDER
ALL MAJOR DEBIT/CREDIT CARDS ACCEPTED

**PECO TRACK & ACCESSORIES ALWAYS IN STOCK
GOOD SECOND HAND SELECTION**

SouthWest digital

Distributor for the UK

Trade welcome

Crystal clear digital sound

As real as it gets!

New YouTube channel, see website for details
ALL products come with a 2 year warranty and FREE return postage

Photos: Chris Perkins

Test drive the latest loco sounds with stunning clarity at SWD – call now for more info

Close your eyes and you're there!

UDRIVE

responsive sound algorithm

The highest quality sounds in all gauges. A wide range of responsive steam and diesel sounds developed for the all new UDRIVE

T: 01934 515382

info@swd4esu.co.uk

www.southwestdigital.co.uk



DCC by Modellers for Modellers

Stockists of

Bachrus, Circuitron, Tam Valley, CML Electronic, DCC Specialties, Digitrax, ESU, Express Models, Gaugemaster, LDT, CT Elektronik, Lenz, New Rail Models, Roco, RR-Cirklits, Sprog DCC, Team Digital, TCS, NCE, Zimo. Plus Many More!

Ipswich Model Railway Centre, Unit 2, 48-52 Tomline Road Ipswich IP3 8DB.



Coastal DCC

+44 (0) 1473 710946

www.coastaldcc.co.uk enquiries@coastaldcc.co.uk

SALE SALE SALE SALE SALE SALE SALE SALE



HORNBY:	BACHMANN:
R2844 30934 BR Early£91.00	31-167DC 50795 Black (W)£84.00
R3003 61669 BR Green Late£108.00	31-932DC 40934 BR Early£111.50
R3004 61631 BR Green Early£108.00	31-933 41157 BR Late£102.50
R3232 65445 BR Late£100.00	
HELJAN:	FARISH:
1600 D8400 BR Green£105.00	372-186 46236 BR Black£118.00
2302 D5908 Green Full Yel£90.00	372-244 47711 Large Logo£92.50
2321 D5901 BR Green£101.00	372-246 47715 NSE£92.50
2322 D5905 BR Green£101.00	372-427 90201 BR Late (W)£105.00
2323 D5909 Green (W)£109.00	
2724 D5353 BR Green£78.00	

We also stock 00 & N gauge from Bachmann, Base Toys, Britbus, Classix, Dapol, Dornaplas, EFE, Farish, Gaugemaster, Heljan, Hornby, Humbrol, Kestrel, Metcalfe, Modelscene, Oxford Diecast, P. Dundas (N), Peco, Plastruct, Ratio, Superquick, Wills, Woodland Scenic & Deluxe Materials.

ONLINE SHOP www.churchstreetmodels.co.uk

Mon-Sat 09.30-17.30 • Closed Tues & Bank Hols

Church Street Models, 10A, Church Street, Basingstoke, Hants, RG21 7QE



01256 358060 • Mail Order Welcome



Vectis

AUCTIONS LTD
COLLECTABLE TOY SPECIALISTS

Friday 28th April 2017 Model Train Sale

Thornaby Auction Rooms at 10.30am
Constantly Achieving Excellent Prices

www.vectis.co.uk

The World's Leading Auction House for Collectable Trains

Vectis Auctions

Fleck Way, Thornaby
Stockton-on-Tees TS17 9JZ

Tel 01642 750616

Fax 01642 769478

admin@vectis.co.uk

Oxford Office, Unit 5A
West End Industrial Estate
Witney Oxon OX28 1UB

Tel 01993 709424



The Airbrush Company Ltd

Quality Equipment - Paints - Accessories - Training

SPARMAX
ARISM
VIZ



Compressors for all applications



Professional airbrush maintenance tools

iwata



10 Year warranty on Iwata airbrushes

LIQUID
PIGMENTS



Airbrush ready liquid pigments

neo
for iwata



Airbrush kits for all budgets

Weathering Techniques for Railway Modellers Course
Mick Bonwick - 26th April 2017



www.Airbrushes.com

01903 767800

sales@airbrushes.com

www.gascupboard.co.uk

GAS CUPBOARD MODELS

MODEL RAILWAYS

You can't change the world you live in... so build the one you want...

Trump! Brexit!

Gas Cupboard Models
6 St Georges Works, Silver Street,
TROWBRIDGE. BA14 8AA

01225 777888

CLASS 41/42/43 WARSHIPS

FOXHOUND WARSHIP CLASS

To accompany our 4mm/00 and 2mm/N scales - we have now introduced the full range of Warship Class Nameplate sets in 7mm/0.

Check out our website for all the latest releases both Waterside Transfers and Etched Brass or Stainless Steel nameplate/ancillary plates.

FOX TRANSFERS LTD
TEL +44 (0)116 319 4950 (QUOTING MR)
Dept MR, Unit 5, Priory Business Park, Wistow Road,
Kibworth, Leicestershire LE8 0RX, ENGLAND
email: sales@fox-transfers.co.uk web: www.fox-transfers.co.uk

HARBURN HAMLET
N Scale
Acclaimed Accessories

The 'N' Gauge Collection
ready coloured for instant use

HN600 Large sacks, grouped... £4.95
HN601 Barrels... £4.95
HN602 Pipes on pallets... £5.50
HN603 Station flower bed... £7.50
HN604 Tarpaulin covered load... £4.95
HN605 Wooden crates... £4.95
HN606 Coal sacks, grouped... £6.50
HN607 Coal sacks, grouped... £6.50
HN608 Coal sacks, grouped... £6.50
HN609 Coal stables... £10.95
HN613 Raised flower bed... £7.50
HN614 Raised bed with seat... £7.50
HN615 Allotment with shed... £16.95
HN616 Allotment with hut... £13.95
HN617 Vegetable patch... £13.95
HN620 Round bales (2)... £4.95
HN621 Round bales stack... £7.50
HN622 Rectangular bales... £6.50
HN625 Anderson Shelter... £6.50
HN630 Drystone wall (2)... £6.50
HN631 Drystone wall ends (2)... £13.95
HN640 Barrels and crates load... £16.95
HN650 1/2 Fishing boats... £16.95

NEW! Due soon: Oil Drums, grouped

HN613 Cottage £16.50
HN612 Cottage (dormer windows) £18.95
HN652 (green)
HN650 (red)
HN651 (blue)

Harburn Hobbies, 67 Elm Row, Edinburgh EH7 4AQ
0131 556 3233 **www.harburns.co.uk**

CARD KITS FROM THE CARD MODELLING SPECIALISTS

BILT-EZZI
Card kits & backscenes
Unsurpassed artist-drawn designs
Colour-printed on thin card (not die-cut), with lots of optional parts.

"The Manor"
Based on multiple F4 kits with added detail parts and Scene-Setters glazing

2mm kits: £1.50 ea.
4mm kits: £2.50 ea.

SAE for brochure (B&W)
C3 Country goods shed
C4 Gas holder etc
D1 2 thatched cottages
D2 Farm outbuildings
D3 Large barn
D4* Half timbered house
D5 Library or shops
D6 Town house, shops etc
E1 Det. house or 2 semi's
E2 Bungalow & garage
E3 Post-war flats
E4 Police stn / offices
E5 Fire station

Freestone Model Accessories
P&P (UK) £3.00 per order. Overseas at cost
Cheques to "Freestone Model Accessories"
Callers by appointment only please

28 Newland Mill, Witney Oxfordshire OX28 3HH
Tel: 01993 775979
Web: www.freestonemod.co.uk
e: sales@freestonemod.co.uk

Durham Trains of Stanley

"more than just a model shop"

6 Station Road, Stanley, County Durham DH9 0JL
Tel: 01207 232545
email: sales@durhamtrainsofstanley.co.uk
Opening times: 9.30 - 5.00 Mon, Tues, Fri & Sat, 11-7 Thurs, Closed Wed.
DCC Fitting & Weathering Service
www.durhamtrainsofstanley.co.uk

MARCWAY POINTWORK
PROFESIONAL POINTMAKERS FOR FIFTY TWO YEARS - GAUGES 1.0 (Fine) & Coarse Scales SM 32, 00

RENOUN FOR QUALITY UNRIVALLED EXPERTISE IN TRACK AND POINTWORK
Ranges available in gauges 1, 0, SM32, 00, EM, HO 0-16.5.
All are ready to run and spray finished. SAE or phone for leaflet.

MARCWAY 0 Gauge Pointwork
Handcrafted with code 125 bullhead nickel silver rail matching Marcway, Peco and C&L 0 gauge track. Built as per all our ready to run pointwork ranges with live frogs, are self isolating and rail built throughout with no cast or moulded parts. Extensive standard range including 3 ways, slips, crossings, curve points etc. L & R point start at £47.50.
Introduction offer 4x72" or 48" points £170.00

MARCWAY 00 & EM Pointwork
Handcrafted in either 00 or EM gauges with code 75 nickel silver Bullhead rail and to match to SMP Scaleway track. The 00 range are built to take Hornby, Bachmann, Lima as well as finescale wheel standards EM are set to the normal fine settings. Range includes slips, 3 ways, curve points etc. Construction & finish as per 0. Prices start at £27.50 for L or R.
Introductory offer 4 or L or R, hand 36" or 48" points for £98.00.

SMP & MARCWAY SCALE FLEXIBLE TRACKS
Injection moulded plastic based. Finely detailed and proportioned to capture bullhead trackwork of the British Steam era.

0 Gauge 0 Track 125H Rail Nickel Silver. Box of 10 yards... £75.00
J Scaleway 00 Track 75H Nickel Silver Rail. Box of 10 yards... £46.50
K Scaleway 00 Track 75H Phosphor Bronze Rail. Box of 10 yards... £46.50
L Scaleway EM Nickel Silver Track 75H Box of 10 yards... £46.50
M Scaleway EM Phosphor Bronze Track 75H Box of 10 yards... £46.50
P4 18.88 + 19.33 75H Rail. Boxes of 10... £49.00

Custom Pointwork
We construct custom pointwork & junctions in any gauge to your required specifications.
All gauges from G to 009 including Duct Gauge & American 0 & Narrow Gauge.
PHONE MARC ON 01709 542951 (not always manned)
TECHNICAL & CUSTOM POINTWORK

POSTAGE EXTRA COST.
MARCWAY SCALE MODELS
Open 10-4 - 6 days for more information go to **marcway.net**
Tel: 0114 2449170

Phone or Post your order. Full Marcway Pointwork list
HORNBY & SCALEXTRIC MAIN AGENTS Peco - Farish - Gauguemaster - Bachmann etc. Sets, Train Packs Locomotives and Rolling Stock. Track Controls and Accessories etc. Also modelers tools, airbrushes, paints, plastic, metal and wood section and sheet.
Secondhand equipment bought and sold. Vast selection combined with helpful & friendly service - Free technical advice by phone or in store
SITUATED 2 MILES FROM M1 JUNG 34 (Meadowhall Exit) 200yds from Attercliffe Tram Stop
Visit our spacious shop - vast selection of equipment in all gauges
598-600 ATTERCLIFFE ROAD, SHEFFIELD S9 3QS
FLET - CRAFTSMAN BUILT IN OUR ON WORKSHOP

HOWES MODELS LTD
Unit 16B, Station Fields Industrial Estate, Kidlington, Oxford. OX5 1JD
Tel 01865 848000 | Fax 848222
e-mail info@howesmodels.fsbusines.co.uk
howesmodels@yahoo.co.uk

PROBABLY THE BEST SOUNDS AVAILABLE....
Hundreds of hours have been invested by our experts to ensure you receive what we believe to be the best UK sounds available. We can supply ESU Loksound decoders with our sound files and can also re-blow your ESU LOKSOUND decoders if you are unhappy with the sounds on them – our 're-blow' service is only £12.00 plus return courier charge.

BR diesels, electrics, multiple units & steam –
huge choice – just visit us on-line to see our full selection!
Sound decoder with speaker - £109.99 for ESU/Howes V4.0 plus £5.95 'FedEx' delivery (UK).
Remember that we offer a decoder fitting service and if you are having sound fitted we can also offer a weathering service, please phone for more details
All our sounds can be offered for 'O' gauge models but may require a different decoder, depending on current draw - please phone for details.
ESU/Howes XL decoders for Heljan 'O' diesels; classes 20, 26, 31, 33, 35, 37, 40, 47 and 52 are all available at £179.99 plus speaker
Apologies for the price increase, this is due to the current exchange rate with the Euro. Should this rate become more favourable in the future we will reduce them again.

MODEL RAILWAY SOLUTIONS
Tel: 01202 798068

Please take a moment to browse our website for details of our self adhesive track underlay, baseboard systems & helix kits.



www.modelrailwaysolutions.co.uk

www.GoldenValleyHobbies.com
New Electrotren Locos – Just £59.99!!



GV2017 GWR No629 0-6-0 Steam Loco
GV2018 Petroleum Black Ajax No38 0-6-0 Loco

DCC Ready
5 pole motor
Hornby Couplings

Due September – Order Now !!!

Try your model shop first, In case of difficulty models available direct by post from our address
Trade Enquiries welcome. 01981 241 237

GVH, Unit 1, Pontrilas Business Park, Pontrilas, Hereford, HR2 0AZ
P&P £3.99 per order

ISINGLASS MODELS

LNER scale drawings and 3-D printing services.

LNER scale drawings
Over 500 drawings of Locos, coaches & vans, available in scales from 4mm up to G1 (G3 by request).

3D printing
Gresley carriage sides, roof profiles to fit any kit and other components designed and printed to order.



LNER Corridor connector, available in 4mm & 7mm

27 Grange Road, Toddington Dunstable. LU5 6BZ
Web : www.isinglass-Models.co.uk
Email : isinglass@Edgson.net

YouChoos
DCC Sound
LET'S MAKE SOME NOISE!

How will you fit yours?



COME SEE US AT
THE LONDON FESTIVAL
OF RAILWAY MODELING

Visit us online for free fitting guides

0844 7725052
www.YouChoos.co.uk john@youchoos.co.uk

PETER'S SPARES

MODEL RAILWAY LIMITED MAIL ORDER & REPAIR SPECIALISTS




GAUGEMASTER
HORNBY **HELJAN**
BACHMANN **BRANER-LINE** **dapol**

- ❖ New & Used Hornby Spare Parts
- ❖ Our own spare parts made in China
- ❖ Locomotives and Rolling Stock
- ❖ Plastic Kits
- ❖ Paints
- ❖ Tools & Glues
- ❖ Digital Decoders & Controllers
- ❖ Locomotive Detailing Parts
- ❖ Mega Steam Smoke Fluid
- ❖ Tracks & Train Sets
- ❖ We have it all at Peters Spares

NEW & USED MODEL RAILWAYS
Specialist in Model Trains since 1994 – Servicing, Repairs & DCC Decoder Fitting
2J Brighthouse Business Village, Riverside Park, Middlesbrough, Cleveland TS2 1RT

TEL: 01642 909794
Open Mon-Sat 10am-5pm

Web: www.petersspares.com
Email: sales@petersspares.com

PECO

TRAINTEES

LEISUREWEAR WITH A RAILWAY THEME

THE WIDEST RANGE OF RAILWAY THEMED LEISUREWEAR IN THE U.K. SHORT AND LONG SLEEVE TEE-SHIRTS, SWEATSHIRTS & POLOS. VIEW & BUY ONLINE OR 'PHONE 01793 764091 FOR ORDER FORM

www.traintees.co.uk

MORRIS MODELS

NORTH LANCING

80 Manor Road, N Lancing, West Sussex, BN15 0HD
Tel 01903 754850
www.morris-models.co.uk
info@morrismodels.co.uk

We are between Brighton & Worthing, just off A27 west of Shoreham Airport

BRITISH RAILWAYS PLUS MANY OTHER RANGES OF SCENIC MATERIALS, BUILDINGS, VEHICLES etc	BICYC-LED OO/HO & N Cycles & M/cycles with working lights!! See our webshop for details Easy Free parking!! Open Mon - Sat 9.30 to 5.00	CONTINENTAL RAILWAYS PLUS MANY OTHER RANGES OF SCENIC MATERIALS, BUILDINGS, VEHICLES etc
---	--	---

NEW 00-gauge Station Approach

As launched at LFRM

Alexandra Palace, March 2017

BUILT & WIRED TO THE HIGHEST STANDARDS

Mon-Fri 9am to 5pm **01277 624741**
or Order directly from
www.modulayouts.co.uk
Ready to run & delivered to your door

QUOTE MR03 ON ENQUIRY

RON LINES

Large stocks of pre-owned railways a selection of which is on our website.

We stock new Hornby, Bachmann, Graham Farish, PECO, Expo tools, Electrical components & much more.

We also purchase your unwanted railways, whether it's a single item or collection, anything considered.

Whether you're a novice or an expert we are always happy to help!
So why not visit us today or give us a ring!

Tel: 02380 772 681 www.ronlines.com
342 Shirley Road. Southampton. SO15 3HJ
Open Mon-Fri 10am-5pm & Sat 9am-4pm

Visit → Scalescenes.com
Download → Print → Build

The home of quality downloadable card model railway kits since 2005

NEW Water Tower

Updated design still ONLY £3.99

Card kits that pass closer inspection

Wide selection of doors to suit all regions

Buy once unlimited prints

Realistically weathered tank

Also view our large range of N and OO kits and texture sheets!

scalescenes.com

Test Valley Models

Unit 404 The Commercial Centre Picket Piece Andover SP11 6RU

testvalleymodels.com testvalleymodels@gmail.com 01264354885

Easy Access, Free Parking.
We can also build baseboards, and will secure trainsets to a board, please call for prices

Weds - Fri 11am - 5pm Sat 9am - 5pm

Available in OO & N

Tenement Building Kit
Only £6.99

Modular design means you can add extra floors

Available in three different finishes.

WWW.SMARTMODELS.CO.UK
Download and Print Building Kits

122 WEST ST Faversham, Kent, ME13 7JB

THE HOBBY SHOP Est. 1988
Tel. 01795 531666
www.hobbys-e-mail.com
SMS Text no. 07889 818727

HORNBY GOLDEN ARROW TRAIN PACK - IN STOCK NOW!

www.expressmodels.co.uk

LIGHTING SPECIALISTS

You may know us as manufacturers of head and tail lights and coach lighting but did you know we also stock Kadee Couplers, Seuthe Smoke Generators, Tortoise and Fulgurex Point Motors. Also our own products, No Solder DCC Power Bus Kits, 4mm Scale Telegraph Poles and our own range of LEDs including White, Red, Yellow and Bi-colour in various sizes and formats.

Visit our website which has secure online shopping.

EXPRESS MODELS, 65 CONWAY DRIVE, SHEPSHED, LOUGHBOROUGH, LEICS. LE12 9PP

Tel: 01509 829008 Fax: 01509 560878

Email: express.models@ntlworld.com



OSBORN'S MODELS



**FLEXIBLE
COTSWOLD WALLING**



OO GAUGE

7 HONESTONE ST, SIDEFORD, N. DEVON, EX39 2DL 01237 423453

www.osbornsmodels.com

TOWNSTREET From the stonecast range that brings realism to your layout
MODEL ARCHITECTURE AT ITS FINEST
NEW "OO" GWR COALING STAGE £67.50

A selection of our kits include:

Citadel Station.....	£97.50
North Light Engine Shed.....	£69.50
LNWR 'Coal Hole'.....	£55.00
Large Signal Box.....	£52.00
Concrete Ash Plant.....	£69.50
Concrete Coaling Plant.....	£69.50
Louvre Roof Engine Shed.....	£69.50
Stone Stations.....	from £49.50
Brick Station.....	from £39.50
Brick/Stone Water Tower.....	£22.50
Brick/Stone Goods Shed.....	£49.50
Brick/Stone Engine Shed.....	from £43.50
Brick/Stone Signal Box.....	from £39.50
Sand House.....	£36.50

PLEASE ADD £4.60 P&P

60 page "OO" catalogue. Full of buildings, bridges, platforms and ideas for your layout £3.80 post free.

TOWNSTREET
6 KIRKHILL, BLENCARN,
Nr. PENRITH, CUMBRIA CA10 1TZ
MAIL ORDER ONLY PLEASE
MON TO FRI 2-8pm
Tel: 01768 88456



www.YorkModelrail.com

• Online shop selling
Precision laser cut
architectural detailing,
kits, tools and materials



York's Magnetic
Mates - sizes
suitable for all
model scales

• **Bespoke laser cutting service**
using plastics, timber, card & acrylics
An affordable way to create perfect results

• **Workshop bespoke construction**
for anything else you need making

• Free quotes

• See our website for new "How to" videos

• Send us an A4 size SAE with a LARGE
size stamp for N, OO or O scale price list

Photo courtesy of 'Norman Raven'

York Modelmaking Here to help you build your models
Unit 13, Bull Centre, Stockton-on-the-Forest, York, YO32 9LE

01904
400358

Trains4U.com 27 St. David's Square, Fengate,
Peterborough, PE1 5QA
Open Tues-Fri 9:30-5:00, Sat 9:00-5:00, Sunday 10:30-3:30, closed Monday

Huge range of Models in N, OO & O. Used items bought & sold. Free parking
Pre-orders on new products available.
Call or email us with your request.



DCC & Sound Fitting. Repairs & Servicing. Models detailed & weathered to your spec



Tel: 01733 895989 e-mail: Trains4U@BTConnect.com

**Realistic
GHOST
SIGNS**
in miniature for your
MODEL
RAILWAY

AS SEEN ON
BBC

NOW AVAILABLE ON PAPER
AND WATER SLIDE TRANSFERS
IN BOTH OO AND N GAUGE

GHOST-SIGNS.COM
NOT ONLINE? CALL 07970 977 628 FOR AN ILLUSTRATED PRICE LIST

Traintronics



180 KITS CAN BE MADE UP TO ORDER 181

	Analogue/DC	Digital/DCC
2 Aspect Red/Green	TT102 £14.50	TT122 £24.50
2 Aspect Yellow/Green	TT103 £14.50	TT123 £24.50
3 Aspect Red/Yellow/Green	TT104 £16.50	TT124 £26.50
3 Aspect Yellow/Green/Yellow	TT105 £16.50	TT125 £26.50
4 Aspect Red/Yellow/Green/Yellow	TT107 £18.50	TT127 £28.50
2 Aspect Red/Green with feather left	TT110 £24.99	TT130 £34.99
2 Aspect Red/Green with feather right	TT111 £24.99	TT131 £34.99
3 Aspect Red/Yellow/Green with feather left	TT112 £26.99	TT132 £36.99
3 Aspect Red/Yellow/Green with feather right	TT113 £26.99	TT133 £36.99
4 Aspect with feather left	TT114 £28.99	TT134 £38.99
4 Aspect with feather right	TT115 £28.99	TT135 £38.99
Modern style 4 track width gantry kit	TT180 £32.50	
Steam Era 4 track width gantry kit	TT181 £20.00	
2 Aspect Red/Green N Gauge	TT202 £14.50	TT222 £24.50
3 Aspect Red/Yellow/Green N Gauge	TT204 £16.50	TT224 £26.50
4 Aspect Red/Yellow/Green/Yellow N Gauge	TT207 £18.50	TT227 £28.50
4 Aspect Red/Yellow/Green/Yellow Head Only N Gauge	TT252 £16.99	TT262 £26.99
Modern style 4 track width N gauge gantry kit	TT280 £27.50	
Signal heads are extra*		
DCC Motor driven slow action point motor	TT300 £22.50	
DCC Colour lights signal board up to 4 aspect with feather	TT301 £12.25	
DCC Block occupancy board	TT302 £10.95	

**TT 300
slow motion
point motor,
DCC & DC
£22.50**

- Built-in DCC decoder has the following features
- Fully compliant with NMRA Standards and Recommended Practices
- Automatically switches to non-DCC mode if supplied with DC!
- Multiple addresses can be programmed - allows route setting with groups of TT300s. Up to 48
- Main address range from 1 to 2044!
- Auxiliary "control" input - allows remote operation, bypassing DCC commands.
- Point addresses, and operating modes, are fully programmable.
- Programmable either from dcc programmer or "in situ" whilst connected on layout!
- All NMRA-recommended programming modes supported

TRAINTRONICS
329-331 HOLDENHURST ROAD, BOURNEMOUTH, BH8 8BT UK
CALL: 01202 309872 OR EMAIL: SALES@SLOTRAIL.COM
www.traintronics.co.uk

MODEL RAIL Marketplace

CALL JAMES ON 01733 366410 • james.belding@bauermedia.co.uk

Books & DVD's

NICK TOZER
RAILWAY BOOKS

RAILWAY BOOKS BOUGHT & SOLD

Free Railway Booksearch Service
155 Church Street, Paddock,
Huddersfield, HD1 4UJ
(Shop: Tue/Wed 11:00-17:00 + Thu 14:00-20:00)
www.railwaybook.com email: nick@railwaybook.com
Tel: 01484 518159

Railways Buses Aviation Canals

Dereks Transport Books
All Transport Subjects Covered

www.derekstransportbooks.com

Over 8000 Books in Stock On-line
Based in the New Forest
Established 1995

Shipping Commercial Motoring Vehicles

Kits

BRANCH LINES

Dapol Kit Package Deals

Each package deal contains the Dapol plastic kit, our etched n.silver chassis kit, our body detailing (or interior) kit, Mashima motor, Romford gears, wheels and all screws wire, etc. to complete.

Railbus p/deal with full interior £61.00
Drewry '04' diesel complete p/deal £69.50
BR mogul & tender complete p/deal £98.50
City of Truro complete p/dea £99.95

Most parts available separately

P.O BOX 4293, WESTBURY BA13 9AA
Tel/Fax: 01373 822231
E-mail: sales@branchlines.com

Cat's SSAE + £1 (in stamps) or £2.50 C. Card and PLEASE STATE INTERESTS

P&P: UK £2.25 (value under £30), £3.50 (£30 to £60), £4.50 (over £60).
Non EU and BFPO less VAT. Exports £4.00 minimum.
VISA, MASTERCARD, SWITCH/MAESTRO, SOLO EXPORTS WORLDWIDE

Hours: Mon-Thursday: 9.30-1, 2-6

See and buy **Prolocab**

The wireless control system for battery powered locomotives

New Rocking W-irons

For coaches and express freight stock with 3ft 6ins wheels. Also with inset top for thick solebars

Further details at...
www.emardee.org.uk

- 0 Gauge Kits -

CONNOISSEUR MODELS

- Quality Etched & Cast Metal Kits -
- Locomotives, Carriages & Wagons -

www.jimmcgeown.com

or Send S.A.E. for printed catalogue
1 Newton Cottages,
nr Weobley HR4 8QX

Manufacturer

Available April, Limited quantities

All metal: W&L Earl / Countess 009 £69.95
IWR Beyer Peacock 2-4-0 £89.95

Resin / metal: LBSC 'J' class 4-6-2 £50
ITSR '51' class 4-4-2 (etched chassis) £60
ITSR '69' class 0-6-2 (etched chassis) £60

Expert Building, Painting & lining services
www.goldennarrow.me.uk

Quality bowpens & instrument sets in stock
392 HAROLD ROAD, HASTINGS, SUSSEX TN35 5HG
Telephone 01424 445334

Online Shops

Triang Collector

Dave ANGELL
07968 975867

Supplier & Collector of Vintage Trains

Primarily, but not exclusively, made by Triang.

www.daveangelltrains.co.uk
dave@daveangell.co.uk • 07968 975867

PHOENIX PRECISION

PRECISION PAINTS & CHERRY PAINTS
The Original and still the best

CHURCHWARD MODELS

DMR Products
Etched Brass Steam Locomotive Kits and Fittings
Steam Locomotive Name and Number Plates.
& Kits and bits from

No Nonsense Kits

www.phoenix-paints.co.uk sales@phoenix-paints.co.uk
01268 730549

roxeymouldings.co.uk

Loco, Coach & Wagon Kits
Fittings & Accessories
Wheels / Motors & Gears
in OO and O

Tel: 01932 245439

Mercian Models

Producing your locomotive and rolling stock in 4mm/7mm/10mm

SEE OUR WEBSITE
www.modelrailways.tv

Photographic

Colour-Rail

Visit our redesigned website at www.colour-rail.com to view over 70,000 images, of railway subjects & buses. High resolution scans available for modellers.

Looking for a good home for your treasured negatives and slides? Then e-mail colourrail@aol.com or write to 558 Birmingham Road, Bromsgrove, B61 0HT

Repairs

MOTOR REPAIRS
HORNBY, DUBLO, WRENN & TRIANG MOTORS

Repaired, rewound & remagnetised.

Also DCC chips installed and old Triang wheels updated.

OO Locomotives serviced from £17.50 plus parts & post

SCALESPEED Est 1966
32 Goldfinch Lane, Lee on the Solent, Hants PO13 8LN
Tel 02392 554107 / 07774 253352
Web www.scalespeed.co.uk
Email scalespeed@btinternet.com

Dealer Directory

Avon

MODEL MANIA

13 CLOUDS HILL ROAD, ST GEORGE, BRISTOL, BS5 7LD.

Stockists of: Bachmann, Coopercraft, Cambrian, Dapol, Gauguemaster, Graham Farish, Hornby, Parkside, Dundas, Peco, Ratio, Wills, Metcalfe, Superquick and much more.
1:76 scale road vehicles

OPENING HOURS:
CLOSED SUNDAY
OPEN TUESDAY FRIDAY
09.30 to 17.00
SATURDAY 09.00 TO 17.00
MAIL ORDER SERVICE
REGRET NO LISTS

TEL: 0117 9659619 FAX: 0117 9411138
EMAIL Modelmania@aol.com
BUSES 42 AND 43 FROM THE CENTRE ASK FOR THE FOUNTAIN

Dealer Directory

Bedfordshire

Order Online today
www.agrmodelrailwaystore.co.uk

AGR Model Railway Store Ltd

9 High Street Mews, 28 High Street,
Leighton Buzzard, Bedfordshire LU7 1EA
01525 854788

sales@agrmodelrailwaystore.co.uk

Monday - Friday 9am-5pm. Saturday 9am-4pm

NOW buying your unwanted model railway collections

Buckinghamshire

P & D Marsh
Model accessories for N & OO

Painted & finished signals

GWR Home N £7.60 OO £11.00
GWR home/distant N £8.65 OO £13.50
GWR Left junction N £14.50 OO £18.95
GWR Right junct. N £14.50 OO £18.95
Painted loco crew N £7.60 OO £8.00
Painted fire buckets N £6.50 OO £6.75

www.pdmarshmodels.com 01525 280068

Cheshire

HASLINGTON MODELS

134 CREWE ROAD, HASLINGTON, CREWE CW1 5BQ
Tel/Fax 01270 589079
E-mail: sales@haslingtonmodels.co.uk

Appointed stockists of:
Hornby, Bachmann, Farish, Heljan, Dapol, Peco, Gauguemaster, Geoscenics, DCC Systems, Humbrol, Plastruct, Precision Metals, Ratio, Wills, etc.

OPEN THURS, FRI, SAT ONLY 10AM - 4PM

Cheshire

TRIDENT TRAINS

No10, The Craft Arcade, Dagfields Craft Centre,
Crewe Road, Walsgerton, Nantwich,
Cheshire. CW5 7LG

www.tridenttrains.co.uk
HORNBY • BACHMANN • HELJAN • FARISH • DAPOL • PECO • LENZ
• TCS • GAUGEMASTER • METCALFE • RATIO & MUCH MORE

01270 842400

Cumbria & Lake District

Crafty Hobbies

South Cumbria's number one shop for model railways, crafts, and doll's houses.

www.crafty-hobbies.co.uk
54 Cavendish Street,
Barrow-in-Furness,
T: 01229 820759

MODEL RAIL

Cumbria & Lake District

Jacksons Models and Railways
 Hornby, Bachmann, Graham Farish, Peco, Dapol, Gaugemaster, Jervis, Planes
 Metcalfe, Neco, Corgi, Oxford Diecasts etc.
www.jacksonsmodels.co.uk
 SHOP OPENING HOURS:
 Mon-Fri 10am-5pm • Sat 10am-4pm
 Closed Wednesdays • 10am-4pm opening Tuesday until 7.00pm
 13 New Wood, Wigton, Cumbria LA12 9AL • Tel: 01928 520007

TRUCKS • CARS • PLANT • KITS • PLANES • MILITARY • RAILWAYS • BOSES

Cleveland

REDCAR MODELS & HOBBIES
 Most leading brands of
 "OO" gauge model
 railways & accessories.
 Also Diecast, Plastic Kits,
 Woodland Scenics,
 K+S metal Centre etc
**130 High St, Redcar,
 Cleveland, TS10 3DH.**
Tel: 01642 494912
 (Open Tuesday to Saturday)
sales@redcarmodels.co.uk

Devon

THE MODEL SHOP
 Specialist Model Railway Stockist
4 ST DAVID'S HILL, EXETER EX4 3RG
 Just off the Old Iron Bridge
NOW AGENTS FOR
NCE DCC CONTROLS
www.trainsandtrack.co.uk
Tel: 01392 421906
 Open: Monday-Saturday 9.30-5.00 pm

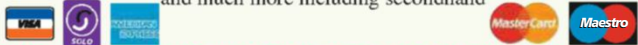
COLLETT'S MODEL SHOP
 6b Albion Street Exmouth EX8 1JL
 Tel: 01395 224608
collettmodelshop.co.uk
 Open Tuesday-Saturday 0930-1700
 Everything highly
 competitively priced

Isle of Wight

Visiting the Isle of Wight?
 Two floors of
 engines, wagons, coaches, buildings,
 scenery, electrics, figures, cars
 and much more!
N/009/HO/00/On30/G
UPSTAIRS DOWNSTAIRS
 Pier Street - Sandown - PO36 8JR
 01983 406 616 - www.udlow.com

Somerset

Essex

CHELMSFORD
JOHN DUTFIELD
 Stockists of: **HORNBY**
 • Peco • Bachmann • Lenz • Graham Farish • Wills • Ratio
 and much more including secondhand

WARDS YARD, 133 SPRINGFIELD PARK ROAD, CHELMSFORD, ESSEX, CM2 6EE
01245 494455 Open 9-5.30 Mon, Tues, Thurs, Fri, Sat. Closed Weds & Sun.
 Email: heatherwilkinson@btconnect.com Web: johndutfieldmodelrailways.co.uk

Kent

KENT GARDEN RAILWAYS
 Specialist suppliers of
G scale and 16mm
garden railways
 LGB ♦ Accucraft
 Bachmann
 Aristocraft ♦ Piko ♦ Pola
 Roundhouse
 USA Trains, etc.
 Large stocks of 00 and N
 from all leading suppliers
 Hornby ♦ Bachmann
 Farish ♦ Heljan
 Peco ♦ Dapol
 Metcalfe ♦ Ratio
 Wills ViTrains
 Woodland Scenics, etc.
 American HO and N from leading suppliers
www.kgrmodels.com
 66 High Street, St Mary Cray, Orpington, Kent BR5 3NH
Telephone: 01689 891668
 Shop open: Monday to Saturday 09:00 to 17:00

Leicestershire

SOUTH LEICESTERSHIRE MARKET TOWN - LUTTERWORTH
RETAIL SHOP TO LET WITHIN A
SMALL EIGHT UNIT PRECINCT
 Looking for a model railway or aeroplanes vendor.
 Would consider a joint venture.
 Rent from £4,200 per annum
For details Tel: 07909 644 800

Somerset

EAST SOMERSET MODELS
 THE RAILWAY STATION,
 CRANMORE, SHEPTON MALLET,
 SOMERSET, BA4 4QP
"MODEL RAILWAY SPECIALISTS"
 We carry comprehensive stocks from the major manufacturers
00 Gauge: Hornby, Bachmann, Dapol, Oxford Rail, Heljan and Peco
N Gauge: Graham Farish, Peco and Dapol
0 Gauge: Heljan, Peco and Dapol
 We also hold a large range of modelling accessories, vehicles and scenic materials.
 Our team have over 100 years combined experience of railway modelling.
 Mail order a pleasure.
Apr-Sep: Wed, Fri, Sat 10.30am-4.30pm, Sun 11.00am-3.00pm
Oct-Mar: Wed, Fri, Sat 10.30am-4.00pm, Sun 11.00am-3.00pm
Telephone: 01749 880651 - www.esmodels.co.uk - Email: mail@esmodels.co.uk

North Yorkshire

MonkBar Model Shop
 Large selection of OO & N Gauge
 2 Goodramgate, York - YO1 7LQ - 01904659423
monkbarmodelshop.co.uk

Tyne & Wear

Pooleys Puffers
 Model Railway
 Supplies, New &
 Secondhand
 Bought & Sold
 Diecast Models
 Kits &
 Accessories
 Proprietors David & Anne Pooley
Tel: 0191 4910202 Mobile: 07976 519178
www.pooleyspuffers.com e-mail: pooleyspuffers@btopenworld.com
382a Jedburgh Court,
Team Valley Trading Estate,
Gateshead, Tyne and Wear NE11 0BQ
 Mon-Sat 10am - 5pm
 When attending weekend exhibitions
 Shop will be CLOSED. Please phone FRI/SAT
 for opening times. Closed Sunday.
All major credit cards accepted.
 Part exchange welcome
WE NOW STOCK BACHMANN
PECO HORNBY GAUGEMASTER
DAPOL JAVIS METCALFE
SUPERQUICK WILLS RATIO

Surrey

COACH LIGHTING
 DCC kit £4.10 DC kit £4.90 • 4 coach extension kit for above £5.20
Now available 'N' gauge
07801 796864
 105 Charlack Way, Burpham, Guildford, Surrey, GU1 1XY
coach-lighting.com

Addlestone Models
 The Shop with the Stock
 Surrey's leading Discount Model Centre
 Open 7 Day's
 Mon - Sat 9:30 - 5:30, Sun 11 - 2
 130 Station Road, Addlestone.
 Surrey, KT15 2BE
www.addlestone-models.co.uk
01932 845440

Staffordshire

TUTBURY MODELS
COLLECTABLES 01283 814777 MODELS
 5 Mill Mews, Tutbury,
 Nr. Burton-upon-Trent DE13 9LU.
 Available Now:
 Bass/Worthington vent van £9.25 + £2.00 P & P
 Available Now:
 6 Wheel Milk Tanker Nestle - OO Gauge
 £17.50 + £2.00 P & P
 Available SOON:
 6 Wheel Milk Tanker Nestle - O Gauge
 Orders invited for the O Gauge.

THE HOBBY GOBLIN
New Retail Outlet
 STOKE-ON-TRENT
 54 Hamill Road, Burslem, ST6 1AU
 Hornby, Bachmann, Peco, Dapol, Gaugemaster,
 Graham Farish, Metcalfe and much more!
Telephone: 01782 818433
 E-mail: thehobbygoblin-uk@hotmail.com
www.thehobbygoblin.co.uk

Taunton Controls Ltd.

TEST DRIVE THE 611 DCC Controller

HELPLINE 01823 327155

Open 9am to 9pm closed WEDNESDAYS

Website - www.tauntoncontrols.co.uk



611 DCC unit can be used with N gauge up to G, has
 28 functions, 300 routes, simple 4 digit numbering
 built in computer interface, and is NMRA compatible
 Designed and built in the UK.



ADVERTISERS' INDEX

AC Models	135	Gas Cupboard Models	138	Peter's Spares	139
ADM Turntables	134	Gaugemaster Control	122-123, 148	Printed Textiles	140
Alton Model Centre	132	GFB Designs	134	Rails of Sheffield	91, 128-129
Anoraks Anonymous	134	Ghosts Signs.com	141	Ron Lines	140
Bachmann	2	Golden Valley Hobbies	139	Scalescenes.com	140
Blackwells of Hawkwell	136	Harburn Hobbies	138	Smart Models	140
Bournemouth Model Railway	141	Hatton's	114-121, 130	Southwest Digital	136
Briml Components	132	Heathcote Electronics	135	Special Auction Services	133
C&M Models	136	Holt Model Railway	126	Spot On Models	136
Church Street Models	137	Howes Models	139	Test Valley Models	140
Coastal DCC	137	Isinglass Models	139	The Airbrush Company	137
C-Rail Intermodal	136	Kernow Model Rail Centre	97	The Hereford Model Centre	127
Dapol	21	KJB Models	23	The Hobby Shop	140
DB Models	135	Marcway Pointwork	138	Tower Models	101
DCCconcepts	109, 131	Mega Points Controllers	132	Townstreet	141
Discount Lighting	105	Metcalfe Toys & Models	124-125	Trains4U	141
Durham Trains of Stanley	138	Model Railway Solutions	139	Train-Tech	133
Ellis Clark Trains	133	Modelrailwayscenery.com	136	Vectis Model Auctions	137
Express Models	141	Modula Layouts	140	Warwick & Warwick	147
Finescalebrass	134	Morris Models	140	York Model Making	141
Fox Transfers	138	Olivia's Trains	75	Youchos	139
Freestone Model Accessories	138	Osborn's Models	141		

Classified advertisers on pages 142-143

Addlestone Model Centre
AGR Model Railway Store
Branchlines
Coach Lighting
Colletts Models of Exmouth
Colour-Rail
Connoisseur Models
Crafty Hobbies

Craven Builders
Dave Angell Trains
Derek's Transport Books
East Somerset Models
Golden Arrow Productions
Haslington Models
Jacksons Models
John Dutfield For Model Railways

Kent Garden Railways
Mercian Models
Model Railway Developments
Modelmania of Bristol
Monk Bar Model Shop
Nick Tozer Railway Books
P&D Marsh
Phoenix Paints
Pooley's Puffers

Redcar Models & Hobbies
Roxey Mouldings
Scalespeed
Taunton Control
The Hobby Goblin
The Model Shop (Exeter)
The Tutbury Jinny
Trident Trains
Upstairs Downstairs



MODEL RAIL

BRITAIN'S

MODEL TRAINS

2017

**EVERY NEW MODEL
FOR 2017!**

- 1,081 MODELS REVIEWED AND RATED
- PROTOTYPE INFORMATION

**FULLY
REVISED!
244
PAGES**



**Order now - call
01733 840111 or visit**

www.greatmagazines.co.uk/modelrailbookazines



Backscene

The Old Sage, CHRIS LEIGH, offers more modelling miscellany

Going back* (with apologies to The Byrds)

I've never been a fan of going back to places I knew in my youth. I usually find that they've changed beyond recognition or they just aren't how I remember them. I'm particularly fearful of going back to old railway haunts on the GWR, and I'm deliberately avoiding the rebuilt Reading General station, as I know I won't recognise it.

However, I recently had an evening appointment in Swindon, and I decided to visit a couple of stations on the way. When the day came, the weather was gloomy, so I limited myself to just one stop, at Kings Sutton, near Banbury.

The first time I went there was in August 1965, on a Gloucester Cross-Country (Class 119) DMU from Oxford. Its station buildings were a more elaborate version of the Banbury & Cheltenham Direct Railway's design - the same basic shape and style but with lots more stonework to give it a mock Elizabethan look. Kings Sutton was listed for closure in the Beeching report, but by the time of my original visit, it had been reduced to an unstaffed halt, presumably because total closure and replacement by bus services was impractical. Take a drive through the village and you can still see why.

Today, Kings Sutton is served by GWR and Chiltern Trains, and the line remains busy with through-express services and freight, including container trains and trains of cars for export from the Midlands to the south coast. There's no trace of its handsome Up-side station building, but the original shelter on the Down platform survives, the last B&CDR building in existence. The lattice GWR footbridge was replaced by a foot crossing with warning lights, and more recently by a modern footbridge. The visit wasn't

quite as disappointing as I'd expected. The character has changed a little because more trees have grown, but doing a bit of careful investigation can be fun. I found the torched-off base of the footbridge and noticed the remains of the row of Scots Pines that so often mark a GWR station approach. A nearby house has one of the station lamps, complete with a name-sign.

On that original visit I had seen plenty of steam, including a 'WD' 2-8-0 which clanked through the station running light engine to Banbury, and I remember watching lizards scampering about on some old iron fixing plates which had been warmed by the sun. The place is still recognisable but I struggled to cast my mind back to how it was. It did prompt me to go out again the next day and look at some other GWR stations on the Cotswold line, and in the Thames Valley. More of that another time, perhaps.

These small wayside GWR stations have always fascinated me and I've been tempted to model one - perhaps, Handborough, Aynho or Kings Sutton. However, wayside stations on main lines take up a lot of space. Tony Wright's superb 'Little Bytham' is a case in point. A small, almost insignificant, wayside station on the ECML, yet to do it justice requires a purpose-built structure to house it. Perhaps I should send Paul Lunn a couple of real track plans of places that interest me, and see what the 'Master of Compression' can do with them...



Above: A Gloucester three-car Cross-Country unit (later Class 119) starts away from the Down platform at Kings Sutton, bound for Banbury on an August day in 1965. CHRIS LEIGH

Below: A similar viewpoint in 2017, as a GWR Class 166 arrives. The fine old brick station has long given way to a clutter of modern station details. The Down side shelter is original, but its stonework has been obliterated by blue paint. CHRIS LEIGH



* The lyric of Goffin and King's *Going Back*, as recorded by The Byrds, is a reflection on the passing of childhood and includes the lyric 'No more electric trains'. It was changed to a more feminine subject in Dusty Springfield's cover version.

Preserved at Bideford

Following up on my recent comments about my lost Bideford Westward Ho! and Appledore 2-4-2T model, Alan Wilkinson wrote to remind me that this year marks the centenary of the closure of the BWHAR, which was requisitioned for the war effort in 1917. He also pointed out that a unique survivor, the *SS Freshspring*, a 1946-built Royal Navy water tender, is under restoration at Bideford.

Peter Lewis of Ivybridge sent me this photo of his lovely 'O' gauge Hunslet 2-4-2T, based on the BWHAR locomotives. It's built from plastic, wood, brass and stainless steel, and it runs on an Atlas mechanism. It's named *Westward Ho* and carries a pair of 'OO' Bulleid nameplates.



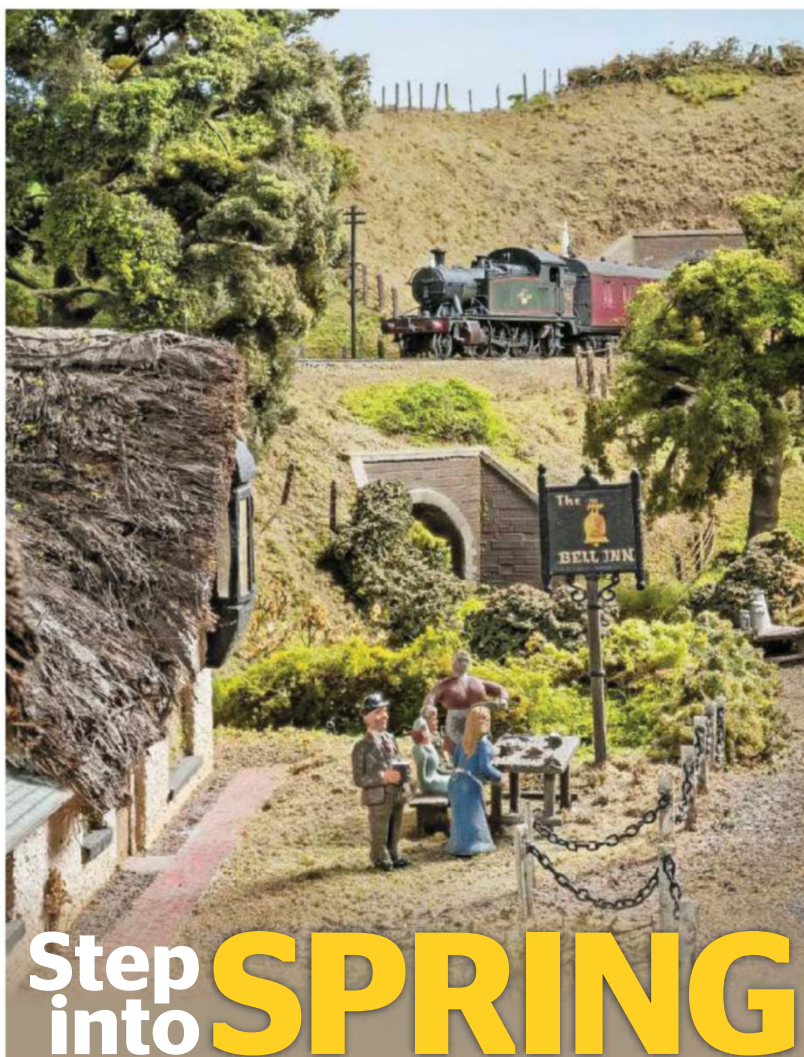
IN THE NEXT ISSUE OF...

MODEL RAIL

ON SALE
MAY
4

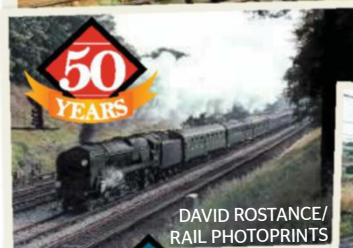
ANNIVERSARY SPECIAL

2017 marks four special celebrations and commemorations: join us next time as we mark 70 years since the end of the 'Big Four', 50 years since the end of Southern steam, 30 years since the launch of Railfreight Sectorisation and 20 years since Virgin Trains exploded onto the scene. Crammed with projects, plans and history, don't miss it!



Step into SPRING

Spring is in the air so we pay a visit to the glorious greenery that is East Bedfordshire Model Railway Society's 'Cheriton Bishop'



DAVID ROSTANCE/
RAIL PHOTOPRINTS



CHRIS NEVARD

CONTACT US

Media House, Lynchwood,
Peterborough Business Park,
Peterborough PE2 6EA
E-mail: modelrail@bauermedia.co.uk

EDITORIAL

Telephone: 01733 468000
Editor: Richard Foster
Deputy Editor: George Dent
Consultant Editor: Chris Leigh
Staff Writer: Mike Harris
Model consultant: Dave Lowery
Editorial Assistant: Jane Skinner
Art Editor: Matthew Hunt
Production Editor: Shane Collins
Sub Editor: Richard Hampson
Photography: Jacques Portal, Chris Nevard
Artist: Andrew Mackintosh

PRODUCTION

Telephone: 01733 468377
Print Production Manager:
Richard Woolley
Advertising Production:
Zoe Bellamy
Printed by: Wyndeham Southernprint,
Poole, Dorset BH16 5SN

ADVERTISING

Senior Sales Exec. Display:
Gemma Smith 01733 366374
Sales Exec classified:
James Belding 01733 366410
Commercial Manager:
Rhonda Jones 01733 468256
Commercial Director:
Sarah Crown 01733 468320
Group Advertisement Manager:
Karen Gardiner 01733 468288

MARKETING

Telephone: 01733 468171
Marketing Manager: Lynne Fairburn
Direct Marketing Executive:
Frederique Campbell
Head of Newstrade: Leon Benoiton
Newstrade Marketing: Sam Tomblin

SUBSCRIPTIONS & BACK ISSUES

To ensure that you don't miss an issue and for the best subscription offers visit www.greatmagazines.co.uk
For subscription or back issue queries please contact: CDS Global on bauer@subscription.co.uk
Phone +44 (0) 1858 438884 (UK & overseas)
For binders call 01733 840111



From January-December 2016 *Model Rail* sold an average of 24,051 copies per issue, as independently confirmed by the Audit Bureau of Circulations (ABC)

BAUER CONSUMER MEDIA

Managing Director: Nicola Bates
Editorial Director: June Smith-Sheppard
Head of Digital: Charlie Calton-Watson
Group Direct Marketing Director: Chris Gadsby
Finance Director: Lisa Hayden
Group Finance Director: Sarah Vickery
Group Managing Director: Rob Munro-Hall
CEO: Paul Keenan

Model Rail magazine is published 13 times per year by Bauer Consumer Media Limited, registered in England and Wales with company number 01176085, registered address Media House, Peterborough Business Park, Lynch Wood, Peterborough, PE2 6EA, VAT no. 918 5617 01.

COMPLAINTS: Bauer Consumer Media Limited is a member of the Independent Press Standards Organisation (www.ipso.co.uk) and endeavours to respond to and resolve your concerns quickly. Our Editorial Complaints Policy (including full details of how to contact us about editorial complaints and IPSO's contact details) can be found at www.bauermediacomplaints.co.uk. Our e-mail address for editorial complaints covered by the Editorial Complaints Policy is complaints@bauermedia.co.uk.

No part of the magazine may be reproduced in any form in whole or in part, without the prior permission of Bauer. All material published remains the copyright of Bauer and we reserve the right to copy or edit, any material submitted to the magazine without further consent. The submission of material (manuscripts or images etc) to Bauer Media whether unsolicited or requested, is taken as permission to publish that material in the magazine, on the associated website, any apps or social media pages affiliated to the magazine, and any editions of the magazine published by our licensees elsewhere in

the world. By submitting any material to us you are confirming that the material is your own original work or that you have permission from the copyright owner to use the material and to authorise Bauer to use it as described in this paragraph. You also promise that you have permission from anyone featured or referred to in the submitted material to it being used by Bauer. If Bauer receives a claim from a copyright owner or a person featured in any material you have sent us, we will inform that person that you have granted us permission to use the relevant material and you will be responsible for

paying any amounts due to the copyright owner or featured person and / or reimbursing Bauer for any losses it has suffered as a result. Please note, we accept no responsibility for unsolicited material which is lost or damaged in the post and we do not promise that we will be able to return any material to you. Finally, while every reasonable precaution is taken to ensure accuracy, Bauer is not responsible for any errors or omissions, nor do we accept any liability for any loss or damage, howsoever caused, resulting from the use of the material.

LES NIXON
RAIL PHOTOPRINTS

Selling your model railway

Warwick and Warwick have an expanding requirement for early to modern collections of British and Foreign trains and train sets from large accumulations to items of individual value. Our customer base is increasing dramatically and we need an ever larger supply of quality material to keep pace with demand. The market has never been stronger and if you are considering the sale of your collection, now is the time to act.



FREE VALUATIONS - We will provide a free, professional valuation of your collection, without obligation on your part to proceed. Either we will make you a fair, binding private treaty offer, or we will recommend inclusion of your property in our next public auction.

FREE TRANSPORTATION - We can arrange insured transportation of your collection to our Warwick offices completely free of charge. If you decline our offer, we ask you to cover the return carriage costs only.

FREE VISITS - Visits by our valuers are possible anywhere in the country or abroad, usually within 48 hours, in order to value larger collections. Please phone for details.

ADVISORY DAY TOWNS - We are staging a series of advisory days and will be visiting the following towns within the next few weeks: **Tavistock, Tiverton, Brighton, Maidenhead, Folkestone, Wimbledon, Great Yarmouth, Kings Lynn, North Shields, York, Lancaster, Bolton, Hereford, Harlow, Cambridge, Pembroke, Swansea and Amersham.** Please visit our website or telephone for further details.

EXCELLENT PRICES - Because of the strength of our customer base we are in a position to offer prices that we feel sure will exceed your expectations.

ACT NOW - Telephone or email Richard Beale today with details of your property



Get the experts on your side!



Warwick & Warwick

AUCTIONEERS AND VALUERS

www.warwickandwarwick.com

Warwick & Warwick Ltd., Chalon House, Scar Bank,
Millers Road, Warwick CV34 5DB England

Tel: (01926) 499031 • Fax: (01926) 491906

Email: richard.beale@warwickandwarwick.com



GAUGEMASTER *Spotlight* Analogue Control



Lifetime Guarantee & Controller Types

Choose Your Controller for Life...

We have been producing Model Railway Controllers for 40 years. Our analogue controllers have stood the test of time, and so has our **lifetime guarantee**:

"We undertake to replace, free of charge, any parts found defective within the lifetime of the unit providing that the item has not been tampered with."

What's the difference between the controller types?

Our **Mains Powered Cased Controllers** come complete with transformer, and can just be plugged in, connected to the track, and away you go. **Panel Mounted Controllers** require a separate transformer, and also need to be mounted onto a control panel to be used effectively.

We also produce various controllers with **Feedback** and **Simulation**, two effects controlled by the controller itself. **Feedback** senses the load on the circuit and helps maintain the locomotive at a steady speed up and down gradients. **Feedback** controllers are not suitable for use with locomotives with coreless motors. **Simulation** (also known as Inertia) allows a train to accelerate, coast, and be braked to a standstill, by use of a regulator and a brake.

Mains Powered Cased Controllers



GMC-COMBI Single Track Controller/Transformer
Most Suited for HO/OO/N Scale Layouts

Fantastic for small layouts or beginners upgrading a starter set, the Combi has both a 12V DC output to run one track, and a 16V AC output for accessories.

BEST FOR
Beginners



GMC-D Twin Track Controller
Most Suited to HO/OO/N Scale Layouts

Our best selling controller. Runs a two track railway with minimum of fuss. The D Controller has two 12V DC track outputs, as well as a 16V AC output for accessories.

BEST FOR
Twin Tracks



GMC-Q Four Track Controller
Most Suited to OO/HO/N Scale Layouts

The best selling four track mains powered controller available today. It offers impressive value for money with its four 12V DC track outputs, and two each of 16V AC and 12V DC outputs for accessories.

BEST FOR
Four Tracks

Panel Mounted Controllers



GMC-100 Single Track Panel Controller
Most Suited to OO/HO/N/Z Scale Layouts

Some experienced modellers may wish to incorporate their controller into a panel they have made to control their layout. The Model 100 Controller has a single 12V DC output.

BEST FOR
Control Panels



GMC-U Single Track Controller with Simulation
Most Suited to OO/HO/N/Z Scale Layouts

With the brake knob controlling the 12V DC track output, this controller allows you greater realism when running locomotives.

BEST FOR
Realistic Running

Hand Held Controllers



GMC-W Single Track Walkabout Single Track Controller
Most Suited to OO/HO/N/Z Scale Layouts

Fitted with 1.5m of cable, this controller allows you the freedom to move around your layout while still controlling your layout. It has a single 12V DC track output.

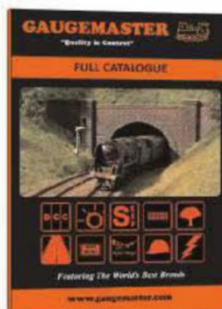
BEST FOR
Flexibility

PRICES

Full details of our Analogue Controller range can be found in the Gaugemaster Full Catalogue.

It also contains details of our Digital Controllers, Scenics, Point Control, Electrics and much more in the Gaugemaster range.

It also contains selected items from many of the other brands that we stock.



GM353	Gaugemaster Full Catalogue	£3.95
GM356	Gaugemaster 2016 New Items Leaflet	FREE

Cased Controllers

GMC-COMBI	Single Track Controller/Transformer	£39.95
GMC-100M	Single Track Controller	£84.95
GMC-100MO	Single Track Controller for O Scale	£84.95
GMC-10LGB	Single Track Controller for G Scale	£99.95
GMC-10LGBSF	Single Track Controller for G Scale with Fen	£169.95
GMC-P	Single Track Controller with Simulation	£99.95
GMC-D	Twin Track Controller	£99.95
GMC-DS	Twin Track Controller with Simulation	£169.95
GMC-TS	Three Track Controller with Simulation	£174.95
GMC-Q	Four Track Controller	£179.95

Panel Mounted Controllers (Orange text shows transformer required)

GMC-100	Single Track Controller (GMC-T1/M1)	£34.95
GMC-100.O	Single Track Controller for O Scale (GMC-T2/M2)	£44.95
GMC-U	Single Track Controller with Simulation (GMC-T1/M1/WM1)	£44.95
GMC-UF	Single Track Controller with Feedback (GMC-T1/M1/WM1)	£39.95
GMC-UO	Single Track Controller with Simulation for O (GMC-T2/M2)	£59.95
GMC-UD	Twin Track Controller (GMC-T1/M1/WM1)	£54.95
GMC-UDF	Twin Track Controller with Feedback (GMC-T1/M1/WM1)	£59.95
GMC-UDS	Twin Track Controller with Simulation (GMC-T1/M1/WM1)	£69.95
GMC-UTS	Three Track Controller with Simulation (GMC-T1/M1/WM1)	£79.95
GMC-UQ	Four Track Controller (GMC-T2/M1/WM1)	£84.95

Walkabout and Hand Held Controllers (All GMC-T1/M1/WM1)

GMC-W	Single Track Walkabout Controller	£39.95
GMC-WS	Single Track Walkabout Controller with Simulation	£59.95
GMC-HH	Single Track Handheld Controller with Feedback	£39.95

Transformers

GMC-M1	Cased Transformer 16V AC	£49.95
GMC-M2	Cased Transformer 18V AC 2.5V	£54.95
GMC-M3	Cased Transformer 24V AC	£54.95
GMC-M4	Cased Transformer 12V AC	£54.95
GMC-T1	Open Transformer 2x 16V AC 1a	£24.95
GMC-T2	Open Transformer 18V AC 2.5a	£24.95
GMC-T3	Open Transformer 24V AC	£24.95
GMC-T4	Open Transformer 2x 12V AC 1a	£24.95
GMC-WM1	Wall Mounted Transformer 16V or 12V DC 1.1a	£19.95
GMC-WM2	Wall Mounted Transformer 9v DC (1600mA) 1.6A	£14.95

Did you know...

If you don't have a handy accessory output from a controller, the GMC-WM1 Wall Mounted Transformer can be used on its own to power accessories such as point motors and lights from the 16V output. Just plug it in and connect it up! You can also use our GMC-WM2 to power the Gaugemaster Lighting range.

GAUGEMASTER products are available from your local Model Shop or, in case of difficulty, direct from ourselves.

GAUGEMASTER Controls Ltd, Gaugemaster House, Ford Road, Arundel, West Sussex, BN18 0BN, United Kingdom

tel - 01903 884321 Fax - 01903 884377 email - sales@gaugemaster.co.uk web - www.gaugemaster.com