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- ✓ Make realistic concrete
- ✓ Choose the right tools
- ✓ Detail your wagons
- ✓ Create miniature scrap

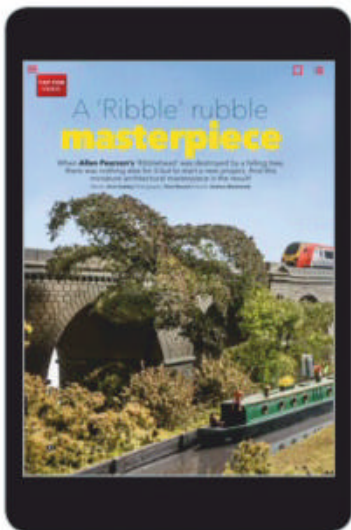


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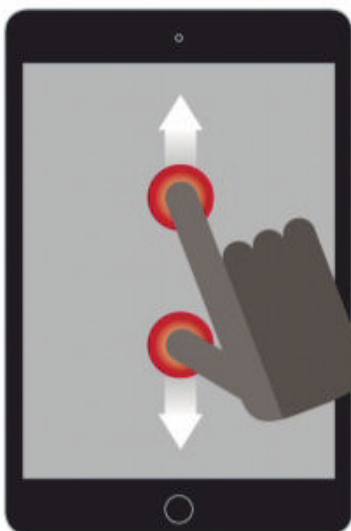


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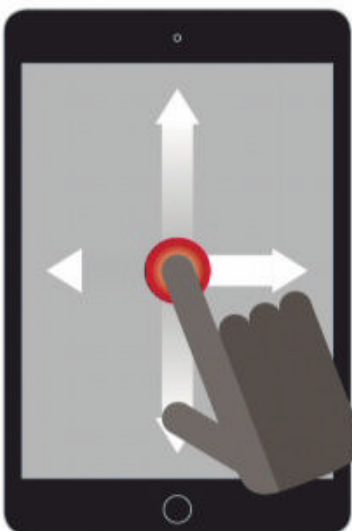
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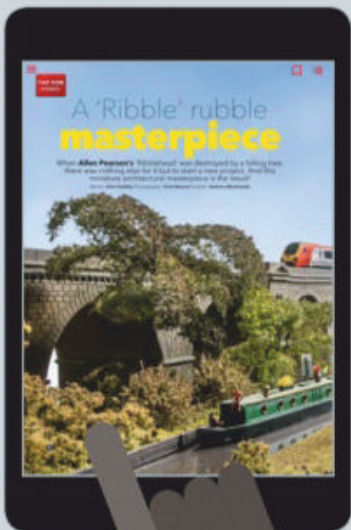
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Welcome



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MODEL RAIL

brought to you by

**Richard Foster**

Two layouts at the start of the scenic stage – time to pluck up the courage to break out the plaster bandage and scatters!

**George Dent**

A sizeable fleet of coal and coke hoppers is sitting on my workbench, awaiting the weathering treatment.

**Chris Leigh**

I have three stations to build and one to rebuild before I can return to my Wisbech & Upwell module project.

**Chris Gadsby**

I've got no layouts at the scenic stage – but plenty of ideas for micro layouts for the magazine! I must find the time...

**Chris Nevard**

Our ace snapper is building a name for himself on the folk music circuit. Is there no end to his talents?

**Peter Marriott**

Peter is our jet-setting scenic guru. Knows what products are available and how to get the very best from them.

**Dave Lowery**

Professional model-maker Dave works on top secret projects for train builders and model manufacturers.

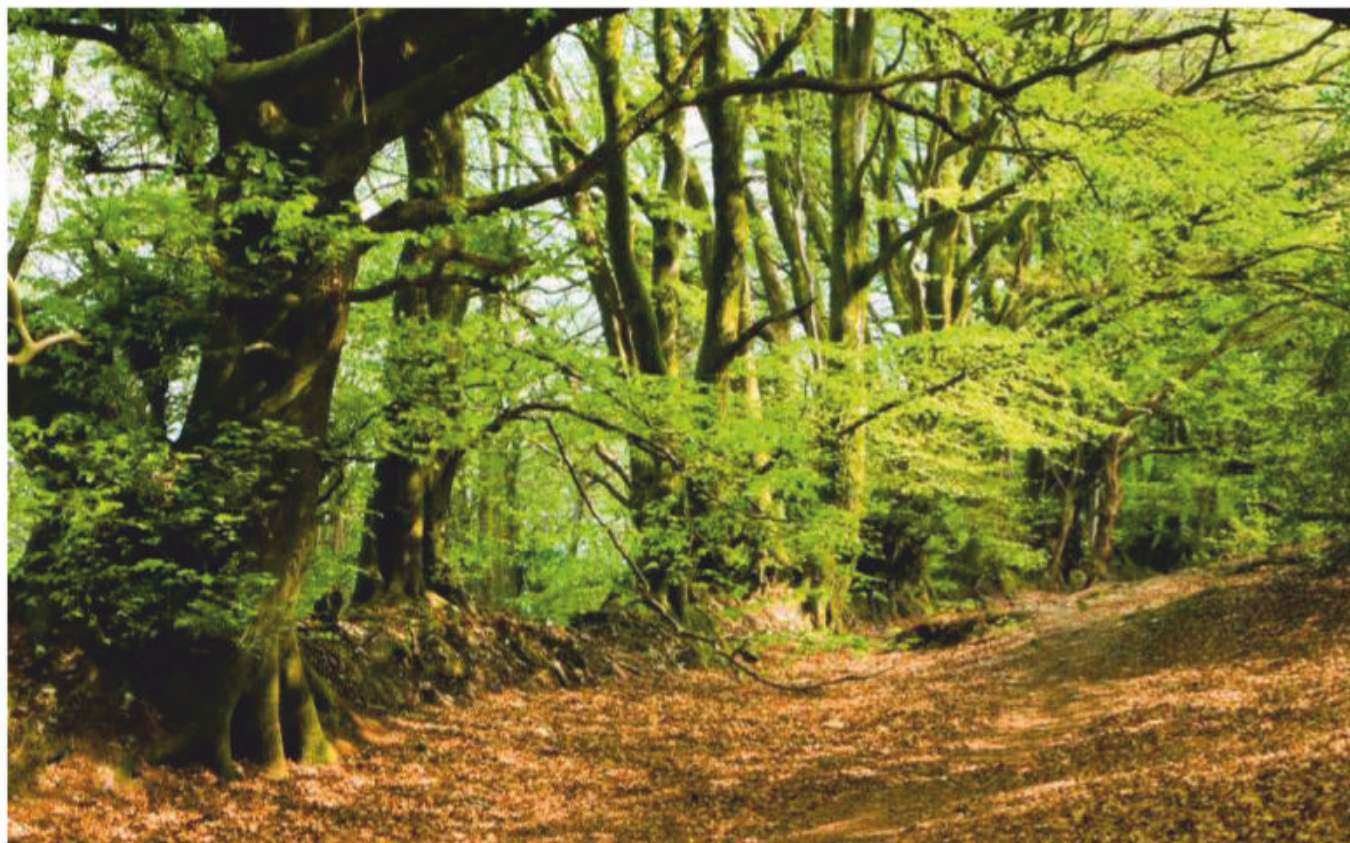
**Paul A. Lunn**

Paul is full of ideas for innovative and exciting layout designs with almost endless possibilities.

**Ben Ando**

Ben is a seriously talented modeller and 'N' gauge expert. He's also started making his own RTR models.

Get in touch: E-mail the magazine at modelrail@bauermedia.co.uk or call 01733 468000



DEREK CROUCHER/ALAMY



It's mid-May as I write this and the trees outside the *Model Rail* office are beautiful and verdant, contrasting wonderfully with a clear, cloudless blue sky. Spring, it seems, is finally here. It's the perfect time, therefore, to take another look at modelling trees.

Making good-looking trees is like any railway modelling task. It will be second nature for some. For others, it will strike fear into the heart. I've seen and read countless demonstrations and accounts of how to make trees over the years and I still feel bewildered by the prospect.

That's where *Model Rail's* Skills Station comes in. We're nearly at the end of our first module – the perennially troublesome topic of airbrushing – and we've been really pleased with the response that it's generated.

It's always difficult to devise new ways to present railway modelling construction techniques, particularly in printed form. But it seems that combining George's usual friendly and informative writing style, along with some short step-by-step videos, has struck a chord. We're hoping that this approach can be used for other areas. Watch this space for something new about layout wiring and DCC.

Meanwhile, there are two airbrushing instalments left – in this issue and the next, which deals with weathering. Then we move on to another exciting subject. Don't miss out: sign up at www.model-rail.co.uk/skills-station

Richard Foster Editor

Subscribe now and save £££££s!

Choose from print, digital or a combo deal and get *Model Rail* for less. See p16.

Life's better with *Model Rail*

Here's why: Starting as a supplement in *RAIL* magazine, *Model Rail* went 'standalone' in 1997. Each issue we bring you easy-to-follow modelling projects that you can complete without breaking the bank, inspirational photographs of the best model railways and thorough, unbiased reviews so you can make the most informed choices when spending your money. Don't forget our own model ranges – see pages **106** and **108**.

Model Rail essential information

Q: Looking for a feature but can't remember which issue it was in?

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For all other enquiries, you can contact us by **e-mail:** modelrail@bauermedia.co.uk

Postal address

Model Rail, Media House, Lynchwood, Peterborough Business Park, Peterborough PE2 6EA

Or you can **call** Jane Skinner on 01733 395155

Model Rail is also on **Facebook:** www.facebook.com/modelrail

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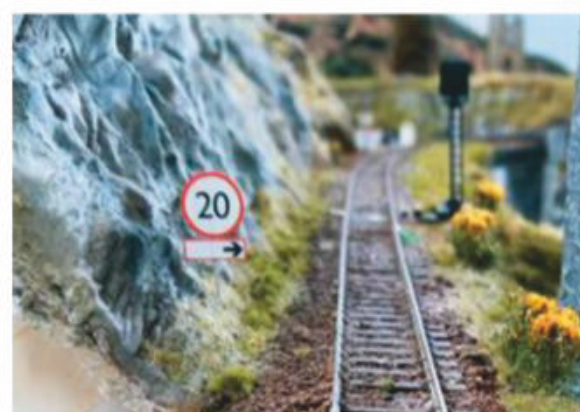
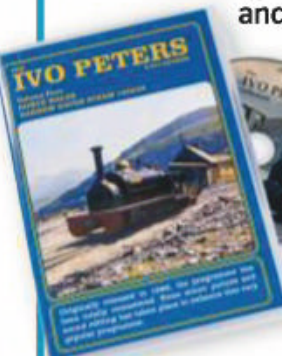
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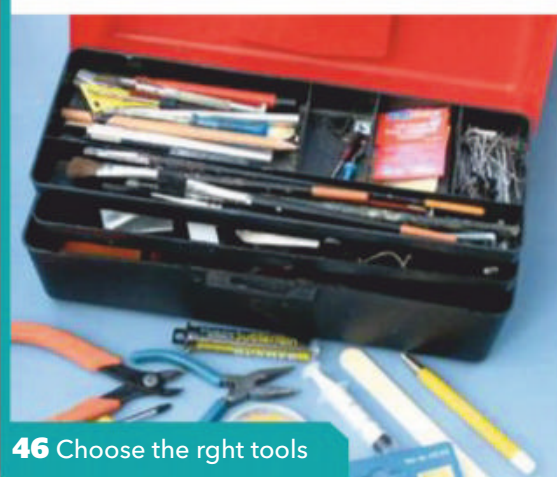
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Opening the box

The latest happenings from the world of model railways



The Big Picture

Model Rail is pleased to announce that the order book is now open for our 'OO' gauge ready-to-run WR '16XX' 0-6-0PT, which is being produced for us, once again, by Rapido Trains. Newton Abbot shed's No. 1608 shows off its handsome lines – post-war Swindon styling applied to rugged Victorian underpinnings – at Totnes station on June 26 1952. W.S. GARTH/RAIL ARCHIVE STEPHENSON

'16XX': ORDER YOURS NOW

You can now order the *Model Rail/Rapido* Trains 'OO' gauge '16XX' 0-6-0PT. Design work has been completed and we're now awaiting the first test 3D prints of the CAD files for evaluation before tooling work starts.

The model has been designed to high specifications. The five-pole motor and flywheel, when combined with a heavy die-cast chassis, offer superb pulling power, typical of the real Western Region pannier. It will also have a Next18 decoder socket and factory-fitted sound speaker, along with firebox glow. These features complement NEM coupler pockets and sprung buffers - *de rigueur* for any new 'OO' gauge ready-to-run model.

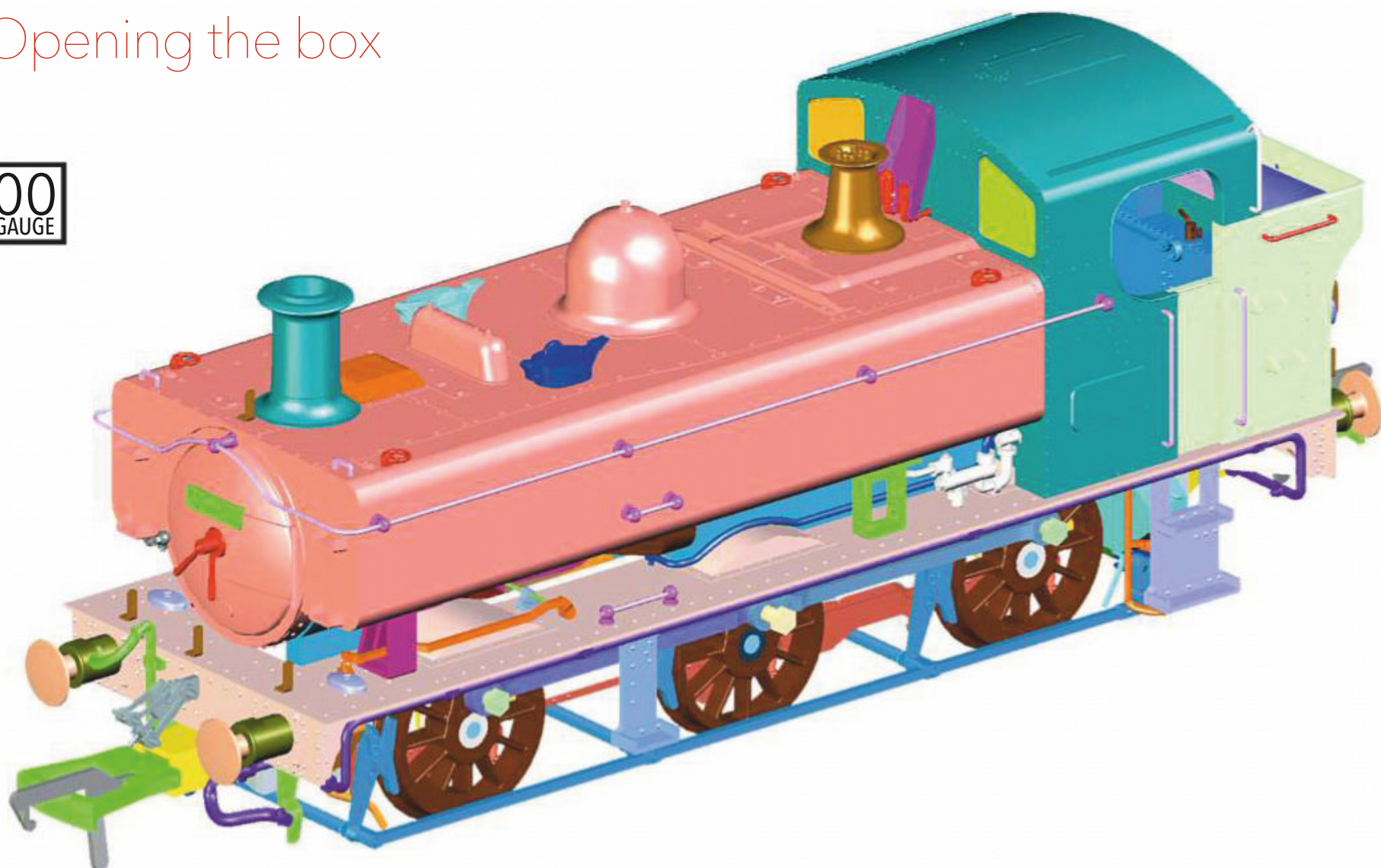
The spare lamp irons on the running plate will now be a separately supplied

etch, which has enabled us to expand the scope and choice of prototypes. We've tried to offer models that reflect the wide geographical coverage that the class achieved, from Cornwall to Southall, and South Wales to Stourbridge. This will give modellers the chance to recreate classic branch lines such as the Tanat Valley, Fowey, Tetbury, Burry Port & Gwendraeth, Llanelli & Mynydd Mawr, not to mention the Dornoch branch in Scotland.

We've also tooled the spark arrestor chimney, dubbed the 'Busby', which was fitted to four '16XXs' for working munitions branches (including the Cleobury Mortimer & Ditton Priors), as well as the Lea & Perrins Worcestershire sauce factory.

Turn the page to select your favourite '16XX' and find out how to order.





'16XXs': 22 VERSIONS TO CHOOSE FROM!

The Hawksworth '16XX' O-6-OPT was a bit like Henry Ford's Model T - it was only ever available in black! Therefore, we're offering it in pristine and weathered

finishes with both BR 'cycling lion' and 'ferret and dartboard' emblems, with 16 different numbers and shedcodes.

We're also lucky that preserved No. 1638 has appeared in non-au-

thentic GWR green, while in its early days in preservation at Buckfastleigh it also carried BR unlined green and green with 'Dart Valley' lettering. Therefore, to inject a little variety into our model, we're offering these liveries too.

We're also going to replicate Nos. 1600 and 1607's NCB careers. No. 1607 was not scrapped until 1969/70. Photographs of this pair in

NCB service have proved VERY thin on the ground, so we've chosen a green livery inspired by the colour scheme carried by '57XX' cousin, No. 7754.

Price: £149.00

Subscribers pay just £134.10.

How to order:

Model Rail Offers

Tel: 01209 613984

Web: www.modelrailoffers.co.uk

MODEL RAIL/RAPIDO '16XX'

What's planned?



TREVOR OWEN/COLOUR RAIL

BR BLACK, EARLY EMBLEM (PRISTINE)

- ◆ MR-301A: No. 1605, 81B Slough shedplate
- ◆ MR-301B: No. 1609, no shedplate
- ◆ MR-301C: No. 1623, 85B Gloucester shedplate
- ◆ MR-301D: No. 1624, 84F Stourbridge Junction shedplate
- ◆ MR-301E: No. 1664, 82C Swindon shedplate
- ◆ MR-301F: No. 1668, 83B Taunton shedplate
- ◆ MR-302A: No. 1646, 60C Helmsdale shedplate
- ◆ MR-302B: No. 1649, 60C Helmsdale shedplate



TREVOR OWEN/COLOUR RAIL

BR BLACK, EARLY EMBLEM (WEATHERED)

- ◆ MR303A: No. 1603, 83B St Blazey shedplate
 - ◆ MR-303B: No. 1636, 89A Oswestry shedplate
- Total BR black early emblem weathered: 500 pieces



J.M. WILTSHIRE/COLOUR RAIL

BR BLACK, LATE EMBLEM (PRISTINE)

- ◆ MR-304A: No. 1622, 81B Slough shedplate
- ◆ MR-304B: No. 1651, 87F Llanelli shedplate



K.C.H. FAIREY/COLOUR RAIL

BR BLACK, LATE EMBLEM (WEATHERED)

- ◆ MR-305A: No. 1627, 81F Oxford shedplate
- ◆ MR-305B: No. 1628, 6C Croes Newydd shedplate



BEN BOGGIS

GWR GREEN

- ◆ MR-306: GWR green No. 1638



COLOUR RAIL

'BUSBY' CHIMNEY

- ◆ MR-307A: BR black early emblem pristine, No. 1616
- ◆ MR-307B: BR black early emblem pristine, No. 1629
- ◆ MR-308: BR black early emblem weathered, No. 1661



GEOFF PLUMB

NCB GREEN

- ◆ MR-309A: NCB green, No. 1600
- ◆ MR-309B: NCB green, No. 1607



COLOUR RAIL

PRESERVED GREEN

- ◆ MR-310A: Green early BR emblem, No. 1638
- ◆ MR-310B: Green 'Dart Valley' lettering, No. 1638

Note: Pictures may not reflect numbers being modelled. Running numbers/shedplates may change at short notice.

HELJAN UNVEILS 'PEAK'

Heljan is to mark next year's 60th anniversary of the ever-popular Class 45 by launching an all-new 'OO' gauge model. As an extra special present, Heljan is to include the Class 45/1 sub-class, never before offered as a ready-to-run model.

Heljan will produce the D31-67/ D108-137 batch with a pair of central headcode panels (rather than split headcode boxes) as well as those rebuilt with two sealed beam headlights in the nose. Variations will include open or plated boiler steps and roof hatches, bodyside grilles or plated panels (or a combination of both), original or modernised under-frame tanks with air tanks, optional inner sandboxes and boiler hatch covers.

The '45/1' sub-class was created in the 1970s when steam-heating equipment on 50 '45s' was replaced with electric train heating for working with new 'air-con' Mk 2s. Heljan's '45/1' will feature the myriad differences of this sub-class and will be available with or without high-intensity headlight.

Other features include a 21-pin DCC socket, NEM coupler pockets integrated into the bufferbeams, fully controllable LED lighting and provision for sound. Production will be limited, so Heljan recommends early ordering to avoid disappointment.



HELJAN CLASS 45 1Co-Co1

What's planned?

- ◆ HJ45100: D31, BR green
- ◆ HJ45101: D57, BR green with yellow panels
- ◆ HJ45104: 64 *Coldstream Guardsman*, BR blue
- ◆ HJ45106: D65 *Grenadier Guardsman*, BR green with yellow panels*
- ◆ HJ45300: 45003, BR blue
- ◆ HJ45304: 45033 'Sirius', BR blue weathered, Tinsley painted name
- ◆ HJ45305: 45060 *Sherwood Forester*, BR blue*
- ◆ HJ45402: 45133, BR blue
- ◆ HJ45500: 45110 'Medusa', BR blue weathered, Tinsley painted name**
- ◆ HJ45501: 45106, BR 'railtour' green
- ◆ HJ45502: 45118, BR blue
- ◆ *Rails of Sheffield limited edition
- ◆ **Kernow Model Rail Centre limited edition

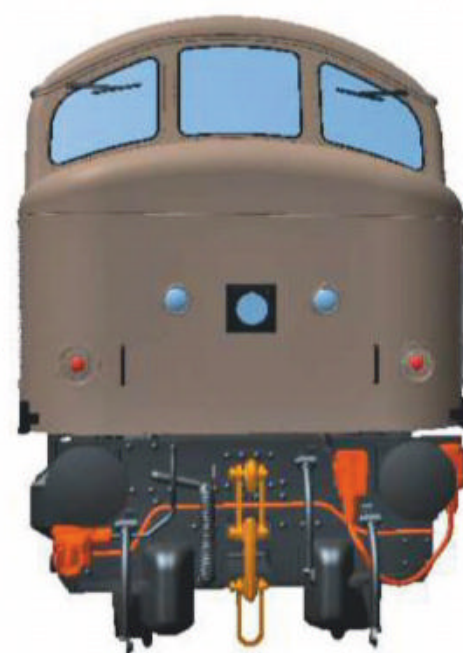
Price? £169.00 (£179.00 weathered)

What stage is it at? Design work complete

When's it due? Q3 2020

Where can I find out more? www.heljan.dk

OO
GAUGE

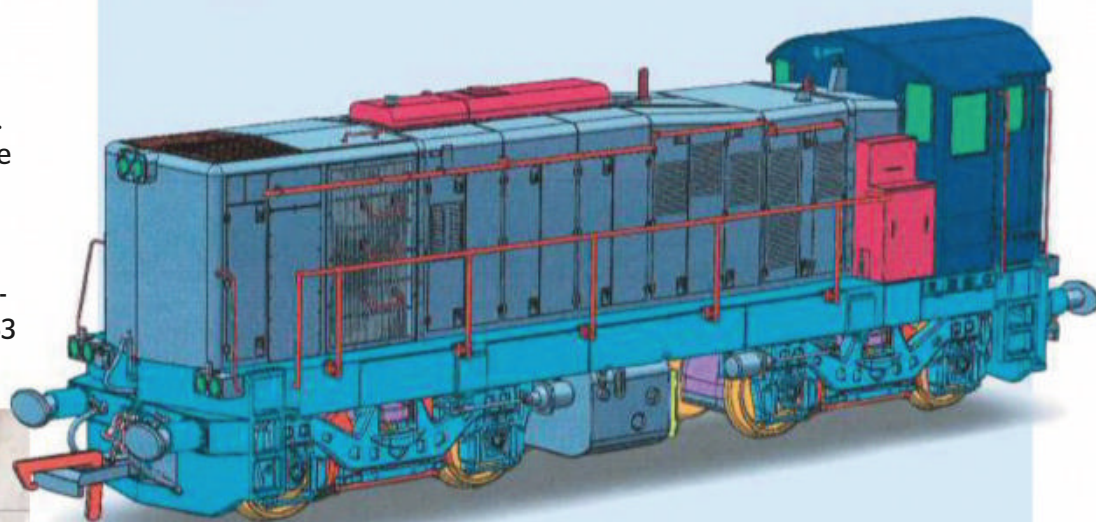


'F3' IN 'O'

Connoisseur Models has unveiled its latest 'O' gauge kit: the LNER 'F3'. The Great Eastern Railway built 50 of these 2-4-2Ts between 1893 and 1902. They were designed by James Holden and were effectively a tank version of the 'E4' 2-4-0. The last was withdrawn in 1953.

Connoisseur's kit contains alternative fittings and cab roof. The pony wheels pivot to enable it to negotiate curves.

Price: £230.00 **Availability:** Connoisseur Models, 1 Newton Cottages, nr Weobley, Herefordshire HR4 8QX Tel: 01544 318263 **Web:** www.jimmcgeown.com



IRISH Bo-Bo IS TOOLED UP

OO
GAUGE

Tooling work has started on Murphy Models' 'OO' gauge CIÉ 121 Class Bo-Bo. The General Motors locomotives served CIÉ from 1961 until 2002, although two were retained until 2008. MM is to offer the '121' in at least

four liveries: original CIÉ grey, CIÉ black and orange, 'Supertrain' and the revised orange/white/black Irish Rail scheme. Prices are still to be confirmed but delivery is expected in late 2019/early 2020.



MINERVA MAKES A DIESEL DEBUT

Minerva Model Railways is to produce the Class 14 as its first ready-to-run diesel outline 'O' gauge locomotive. The O-6-ODH will follow the same specification set by its four previous steam models. It will have an injection-moulded body mounted to a die-cast chassis, with a high-torque motor and flywheel and a 40:1 gearbox.

It will also sport an illuminated cab and headcode panels that light up in the direction of travel.

The Class 14 will be offered in just one livery - two-tone green with 'wasp' stripes and BR roundel - and will be unnumbered. However, running numbers will be supplied on a sheet of waterslide decals and worksplates, and shedplates will be supplied on an etch.

A 22-pin socket will enable a full range of DCC and sound options to be offered. Prices range between £290.00 for a DCC-ready model to £415.00 for the sound-fitted option. Design work is almost complete and Minerva hopes that the model will hit the shelves in spring 2020.

Availability: Minerva Model Railways **Tel:** 02920 531246 **Web:** www.minervamodelrailways.co.uk

On the road

◆ Oxford Diecast has unveiled new items of tooling in 1:148, 1:76 and 1:43 scales. New for 'OO' is the Ford Zodiac Mk 2 and Volkswagen T1 Samba, the luxurious version of the camper with panoramic roof windows. 'N' gauge modellers will soon benefit from the MG B roadster, while new in 'O' is the Land Rover ½ Lightweight, finished as Fred Dibnah's ECW656W.



STEVEN BENNETT/LAMY

◆ Gaugemaster has slashed the price of some EFE 1:76 scale lorries to just £9.95. The price cut applies to selected Bedford TK, AEC Mammoths and Ergomatics, and Thames Trader lorries. Snap them up while stocks last.

BUSCH CLAMPS DOWN

You can now punish the drivers of inconsiderately parked 1:87 and 1:76 scale cars with this new pack of wheel clamps from Busch.

Price: £8.17
Availability: Golden Valley Hobbies **Tel:** 01981 241237
Web: www.goldenvalleyhobbies.com

HO
GAUGE



THOMAS JOINS BACHMANN

Bachmann Europe plc has acquired the licence to produce 'OO' gauge Thomas & Friends models for the UK and Irish markets. This licence had been held by Hornby since 1985. The range of Thomas models will be formally unveiled at the London and Nuremberg Toy Fairs in early 2020, and will contain train sets, locomotives, rolling stock and accessories.

OSBORN'S CRANE LIGHTENS THE LOAD

N
GAUGE

Osborn's Models has produced a ready-to-run Ransomes & Rapier 45t crane in 'N' gauge. The model is 3D-printed, which makes it lighter and thus more suitable to be pulled around a layout than the whitemetal equivalent. It comes with metal wheels and the outer jib runner and relieving bogies feature NEM coupler pockets.

The crane has been designed and produced

in-house by Osborn's and will be available in three liveries: GWR grey, Southern grey, BR black and BR red. A Longmoor Military Railway version can also be produced as a special order.

Price: £149.99

Availability: Osborn's Models **Tel:** 01237 423453
Web: www.osbornsmodels.com



RAILS' NEW VANS



Rails of Sheffield has joined forces with Dapol to produce a new addition to the Rails Limited range of exclusive models: the new South Eastern & Chatham Railway Diagram 1424 box van. The SECR built 110 of these 16ft vans between 1904 and 1908 and the last was not withdrawn until 1956.

The new 'OO' gauge model has been designed and

produced in the UK and was due for release as this issue hits the shelves. Three liveries have been produced - Southern Railway brown, Southern brown with BR lettering and BR grey - and each scheme has a choice of two running numbers. The van is fitted with Alan Gibson wheels for extra finesse. Production is extremely limited,

so place your order now to avoid disappointment.
Price: £27.99

Availability: Rails of Sheffield
Tel: 01142 551436
Web: www.railsofsheffield.com



CLASS 92

Tooling work has started on Accurascale's 'OO' gauge Class 92. CAD artwork promises an impressive model with accurate 'roof garden' and key detail differences, such as modified coupling and bufferbeams for GBRf '92s' to work with the Mk 5 coaches. **Price:** From £160.00 **Availability:** www.accurascale.co.uk



KITS AND ACCESSORIES

Scale Model Scenery has unveiled a new tranche of laser-cut timber kits and detailing accessories:

- ◆ LX210-N Trackside Walkway/Grating, £5.99
- ◆ LX210-O Trackside Walkway/Grating, £12.99
- ◆ KX044-OO Ultra-low relief Terraced House End Wall, £7.99

- ◆ LX208-OO Water Tower, £10.49
- ◆ LX033-OO Milesposts, Gradients & Catch Points Signs, £4.99
- ◆ LX186-OO Timber Barrow/Foot Crossing, £3.99
- ◆ LX231-OO Large Cable Drums, £9.99
- ◆ LX232-OO 3ft by 2ft Paving Slabs, £5.99
- ◆ LX217-OO Pavement Strips, £2.49

- ◆ LX218-OO 90° Pavement Corners, £1.49
 - ◆ LX219-OO 120° Pavement Corners, £1.49
 - ◆ LX220-OO 60° Pavement Corners, £1.49
- Availability:** Scale Model Scenery **Tel:** 01530 456952
Web: www.scalemodelscenery.co.uk

Dates for the diary

NARROW FOCUS

Model Rail's layout planning guru Paul A. Lunn will be at the OO9 Society's East Midlands Area Group's meeting on July 13, where he'll be showing one of his two-hour design presentations. He's also offering the chance for modellers to take part in a one-to-one design clinic.

Paul's lectures are free to attend, but entry to the exhibition costs £4 for non-OO9 Society members. To book a design clinic, sign up on the day with Paul's wife, Mel. Paul will also have copies of his *Making Tracks* planning book and complementary Activity Media DVD for sale at heavily reduced prices.

Where is it? Portland College, Nottingham Road, Mansfield NG18 4TJ

HORNBY OPEN WEEKEND

Hornby's Margate headquarters is to become the home to a new event on August 17/18. 'Hornby Visitor Centre - The One:One Collection Open Weekend' will give visitors the chance to explore not only the Hornby visitor centre but the former factory, now home to Locomotive Storage Limited's facilities. As well as the full-size steam locomotives and rolling stock, visitors will also be able to see model railways and displays from the Hornby archive.

To book your ticket, go to <https://www.hornby.com/uk-en/hvcopenweekend>



PETER'S PICKS

Our scenic expert chooses the most exciting new products to appear on the market.

WOODLAND SCENICS GRADE CROSSINGS

Woodland Scenics has produced these inserts for making bespoke level crossings. There are two finishes – timber and steel plate – and they can be cut to different lengths. 'N' and 'O' versions are also available.

Scale: 'OO'

Product code: C1147 (wood); C1148 (steel)

Price: £12.95 each

Availability: Bachmann stockists



SCENIC EXPRESS SCALE LEAVES

US manufacturer Scenic Express' Super Leaf is now available in the UK. Perfect for all types of tree and realistic in colour and texture, you can buy different colours in these large tubs. Super Leaf is easy to fix in place with a little hairspray.

Scale: Any

Product code: SX_6122

Price: £8.99

Availability: Model Junction, 916 Yeovil Road, Slough Trading Estate, Slough SL1 4JG **Web:** www.modeljunction.info



NOCH BALLAST

Noch has produced a 250g bag of ballast suitable for 'O' gauge layouts. The 1mm and 2mm granules feature a blend of shades of grey.

Scale: 'O'

Product code: 09368

price: £2.95

Availability: Gaugemaster

Tel: 01903 884488

Web: www.gaugemaster.com



NOCH FINE SAND

Noch has also introduced new sand scenic materials, available in 'fine' and 'medium' grades.

Scale: Any

Product code: 09234 (fine);

09235 (medium)

Price: £2.55 each

Availability: Gaugemaster

Tel: 01903 884488

Web: www.gaugemaster.com



WIN! MICHAEL PORTILLO DVDS

Can you believe that Michael Portillo's *Great British Railway Journeys* has now reached its tenth series? Michael first set out from Liverpool, birthplace of the inter-city railway, in 2010, armed with his Bradshaw's guide. Since then he's covered almost every inch of the British railway network, from Cornwall to Scotland, as well as visiting Ireland and the Isle of Man. It has led to subsequent spin-off series, in which Michael has travelled to Europe, India and even Alaska.

For series ten of *Great British Railway Journeys*, Michael revisits some earlier journeys to see what's changed in the last

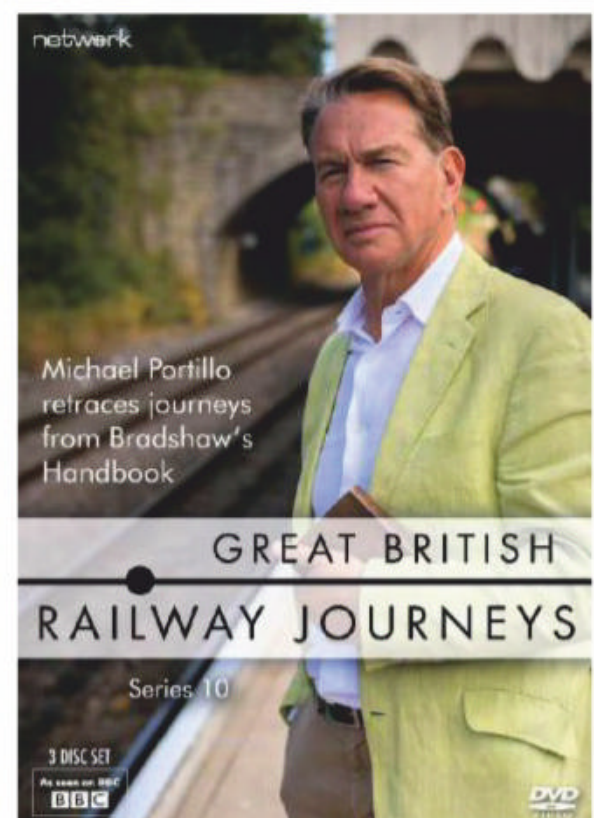
decade, exploring Greater Manchester, South Yorkshire and the Potteries. He then heads to Northern Ireland and Scotland, before travelling south to Berkshire, London and, finally, Rye in Kent.

The three-disc boxed set of *Great British Railway Journeys* Series 10 is on sale now, priced £29.99.

However, thanks to Network Distributing, we've got one copy to give away – plus a copy of each of the previous nine series (RRP each £29.95)! To win this bumper collection of DVDs, all you have to do is go to www.model-rail.co.uk/mr262-comp and answer the following question:

Q: Bradshaw's *Railway Time Tables and Assistant to Railway Travelling* was first published in which year?

A1839 **B**1869 **C**1939



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According to Chris...

His grandchildren call him 'Granddad Trains' and he's been a dedicated railway modeller since the 1960s but, despite popular legend, **Chris Leigh** doesn't remember when dinosaurs roamed the Earth!

I've yet to meet anyone in the magazine editorial business who actually enjoys compiling the diary page. It's an essential feature of model railway magazines, of course, and has been so since the 1960s, when lots of new clubs were launched in towns across Britain. However, it tends to be a long listing of dates and times for meetings and exhibitions, so it doesn't make for interesting reading. That's why editorial staff don't enjoy compiling it, or proof-reading it two or three times over, but accuracy is key.

It's often one of the first jobs that gets passed to the most junior member of staff and that was certainly true at *Model Railway Constructor*, when I joined in 1963. Don't think it's an easy job, though. Get a date wrong and the consequences can be dire, so it's an onerous responsibility for a novice.

Luckily for me, many of the announcements related to the formation of new clubs, and in early 1964 I was asked to place an announcement that an exploratory meeting would be held to assess whether a club could be formed in Staines, Middlesex. It was a front-room gathering of interested people, arranged by brothers-in-law Terry Wheelwright and Roger Richens, and it was

Right: 'Oakworth' is to receive a makeover with a new roof and a completed backscene.

Below right: Bobbie, Peter and Phyllis were sculpted by Aidan Campbell.

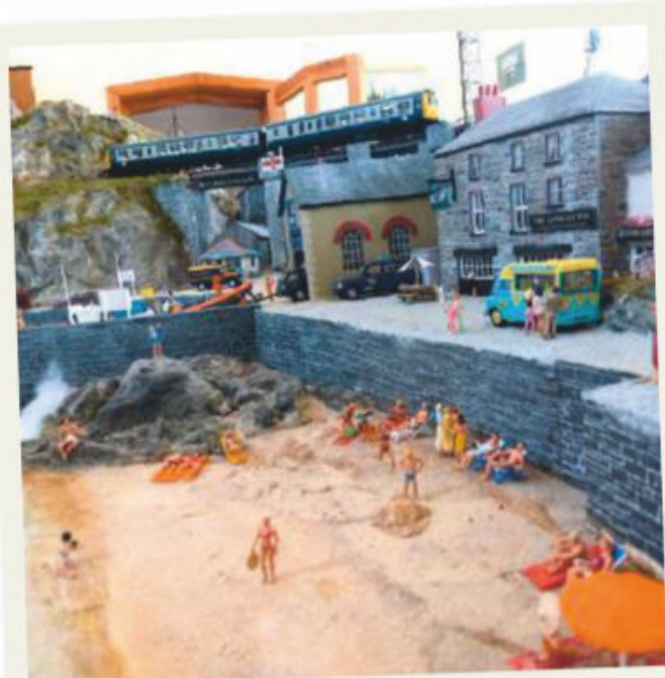
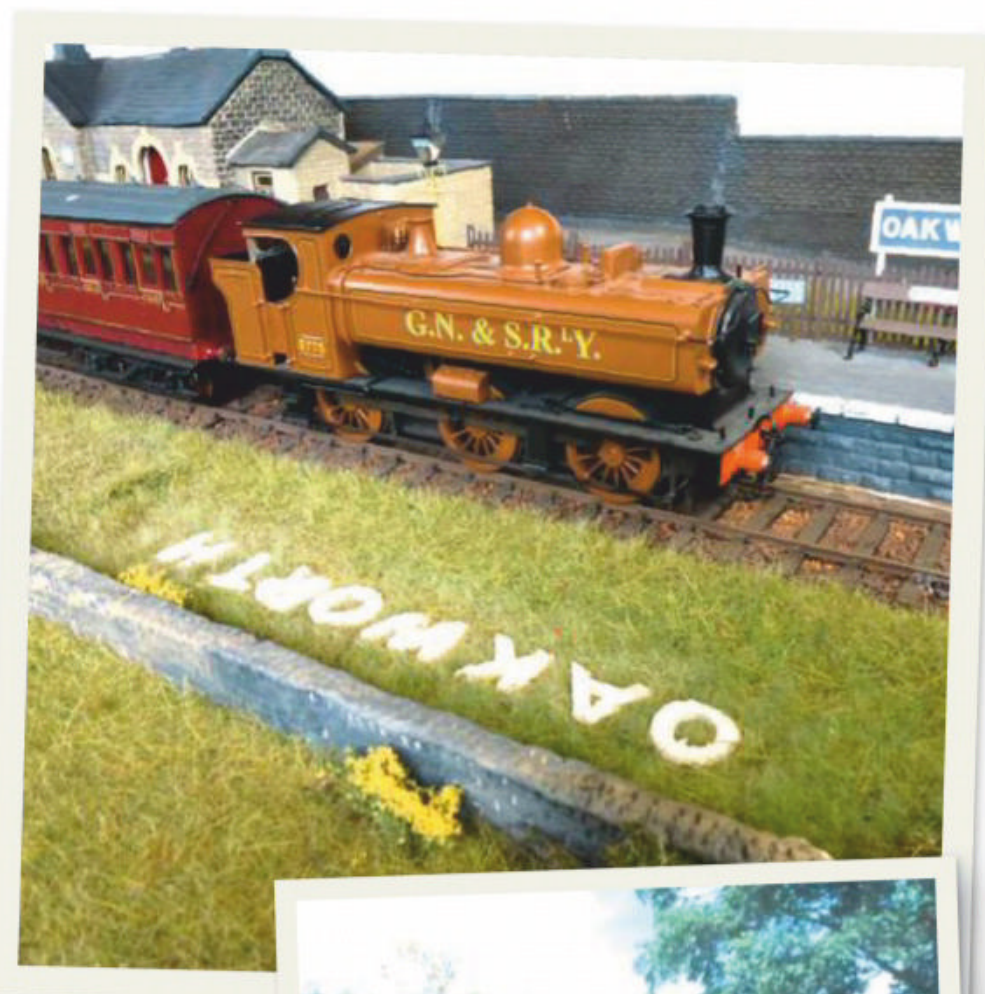
the beginning of the **Staines Model Railway Society** (now the Egham & Staines MRS).

I went along to that first meeting. The club was formed and began meeting on Tuesday evenings in Staines Town Hall. It wasn't long before layouts were being built and an exhibition was planned for late 1966. As part of the publicity, the club's 'Staines West' layout was featured in and on the cover of the November 1966 issue of *Model Railway Constructor*. I must confess that it wasn't difficult to arrange that publicity as I was both exhibition manager and editorial assistant on the magazine!

After that, I was usually involved in organising the club's biennial exhibition until I moved away from the area in 1992. However, since then, I've only attended shows as a visitor and I'm not a member of any club in the area where I now live. I am, however, about to organise an exhibition, with only the support of the very active (but small) village community group.

Next year marks the 50th anniversary of the popular Lionel Jeffries movie, *The Railway Children*, which starred Bernard Cribbins and Jenny Agutter and was filmed on the Keighley & Worth Valley Railway. *Model Rail* readers may remember that I built an 'O' gauge layout based on Oakworth station, featuring characters from the movie. It was exhibited twice at Model Rail Live and once at Butlin's holiday camp in Skegness. Since then it has languished in a shed in my garden.

I contemplated renovating it for one last show in my home village as a fund-raiser for the village church. Our community group has now given its support to the holding of a model railway exhibition in the



Above: 'Polwyddelan' will also be on show - but how will I operate two layouts at once?

village hall. The date is May 23 2020. Put it in your diary if you would like to see my 'Railway Children' layout, plus 'Polwyddelan', my Cornish harbour layout, for what could well be their last-ever public appearances. I'm also inviting layouts from my friends at Egham and from *Model Rail* colleagues Dave Lowery, Peter Marriott, Ben Ando and Chris Nevard, though I must stress that the show is not in any way connected with either *Model Rail* or Bauer Media. It is also planned to bring together some 3ft by 1ft Wisbech & Upwell tramway modules.

In the meantime, 'Oakworth' is to undergo renovation. I plan to reduce its height so that the operator can be seated and so that smaller children can see it more easily. There are also lots of jobs to be completed and five years of storage damage to be reversed.

I want it to be a rather different kind of show, a more intimate affair, where visitors can meet and talk to layout operators, and perhaps even try their hand at the controls.

Watch this page for more details as the plan unfolds. I hope to see you in beautiful Barnwell on the day.

Want more Chris? Visit the Chris Leigh Blog at www.model-rail.co.uk/the-chris-leigh-blog

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FACTFILE: *MODEL RAIL*'S EXCLUSIVE ZTR BRAKE VAN

Model Rail commissioned Bachmann's critically acclaimed 'OO' gauge Southern Railway 25t brake van in Signal & Telegraph 'Satlink' livery.

Van No. 56153 was built at Lancing Works in 1931. It became part of BR's S&T Department's 'Satlink' fleet where it gained the TOPS code ZTR. It's now preserved at the Chinnor & Princes Risborough Railway.



"*Model Rail* magazine is jam-packed with the latest news, reviews, inspiring features and the hottest practical techniques from some of the hobby's most passionate modellers.

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Richard Foster Editor

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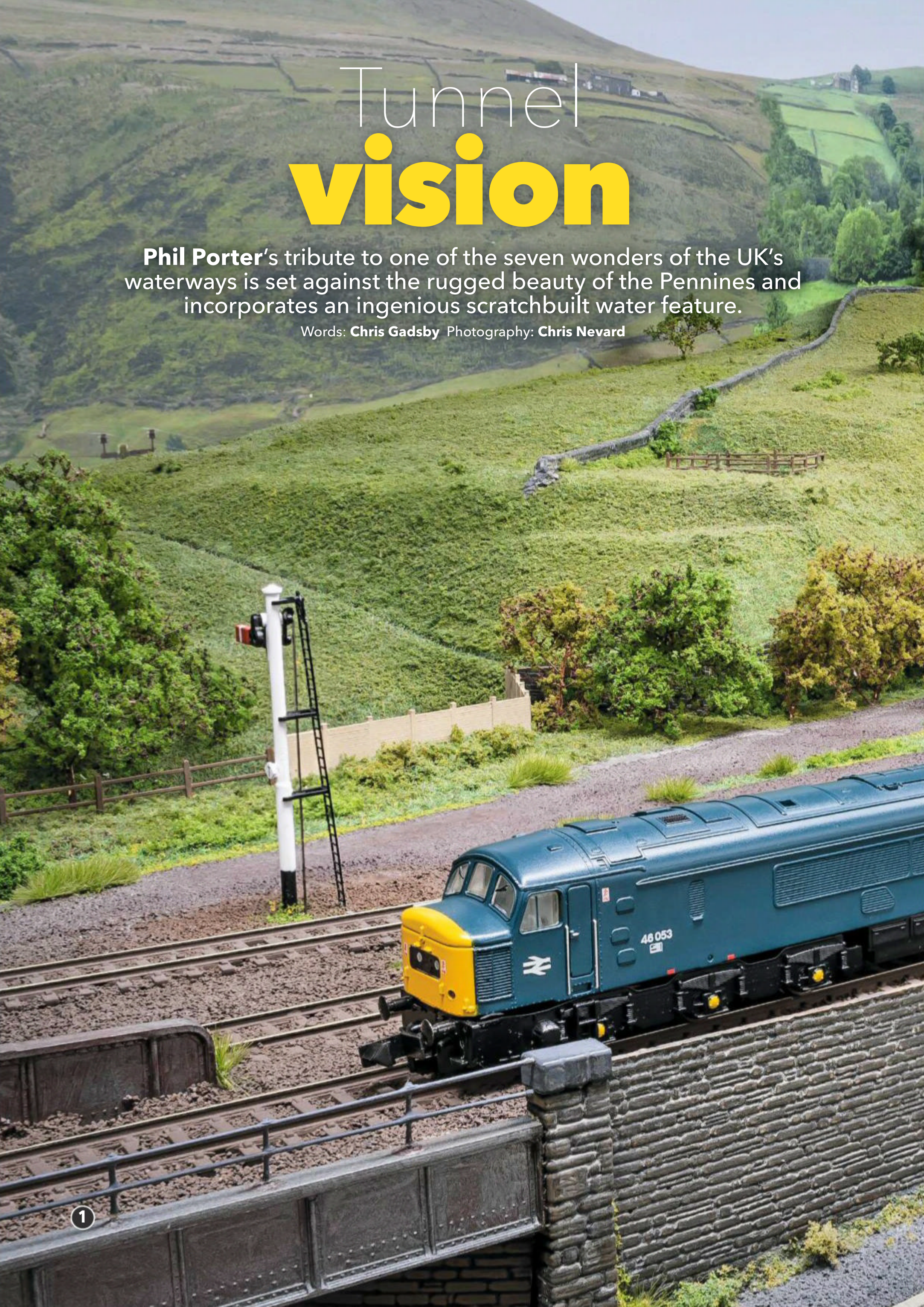
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Tunnel vision

Phil Porter's tribute to one of the seven wonders of the UK's waterways is set against the rugged beauty of the Pennines and incorporates an ingenious scratchbuilt water feature.

Words: **Chris Gadsby** Photography: **Chris Nevard**



LAYOUT **STANDEGE TUNNEL**

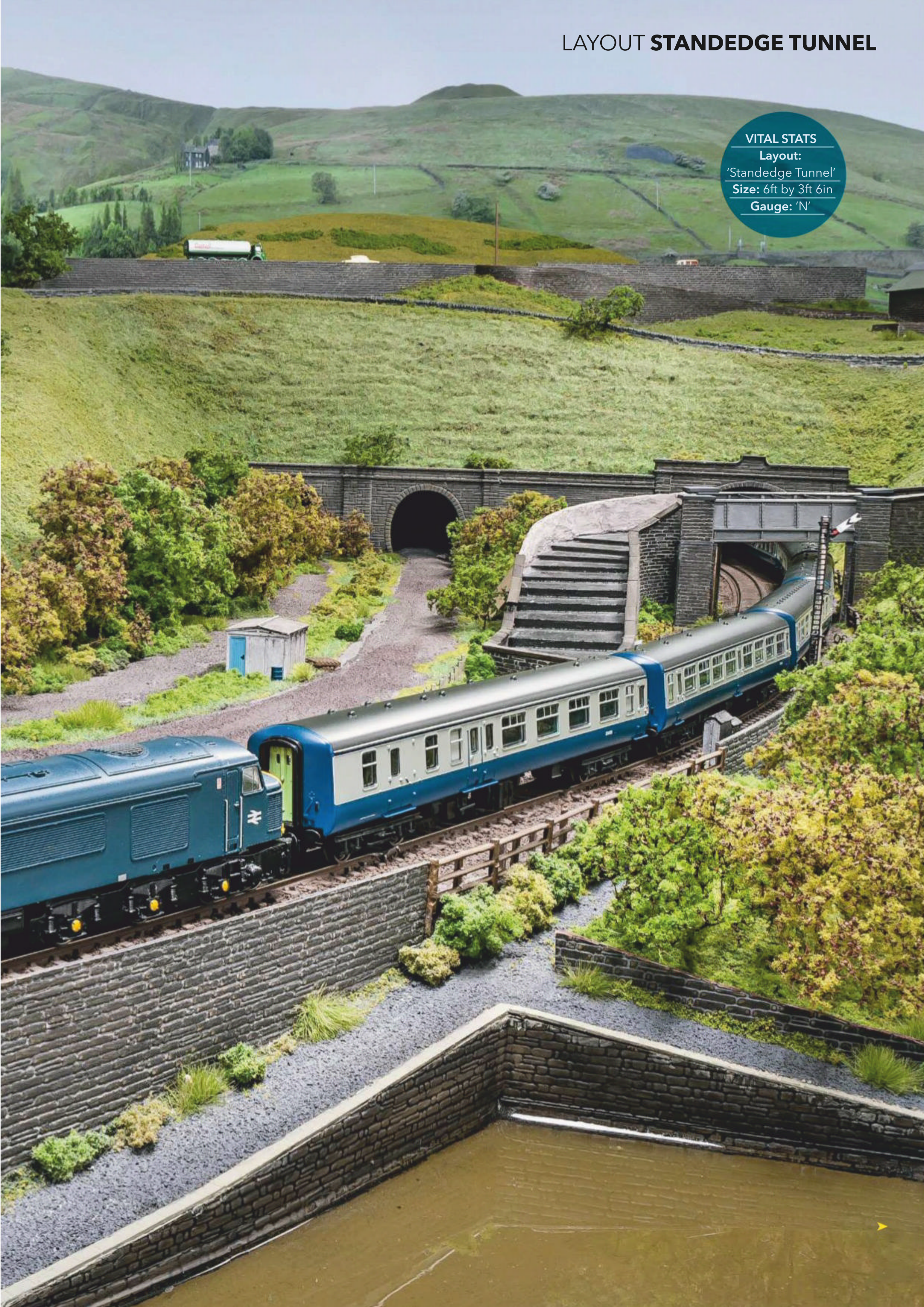
VITAL STATS

Layout:

'Standedge Tunnel'

Size: 6ft by 3ft 6in

Gauge: 'N'



LAYOUT **STANEDGE TUNNEL**

“I blame Chris Nevard for this layout!” Or rather, Phil Porter points the finger at a feature *Model Rail*’s photographer and ace modeller wrote about using foamboard to make lightweight baseboards.

Phil also credits the inspiration for this project to two other people.

“Chris’ piece about using foamboard really made me think about creating a layout,” he explains. “I was forced to go with ‘N’ gauge because I only had a small room in which to house the layout. So small, in fact, that even though it’s only 6ft in length, I couldn’t actually put the two halves together until I had moved house. This was my first experience in ‘N’ gauge and my thanks go to Grahame Hedges for

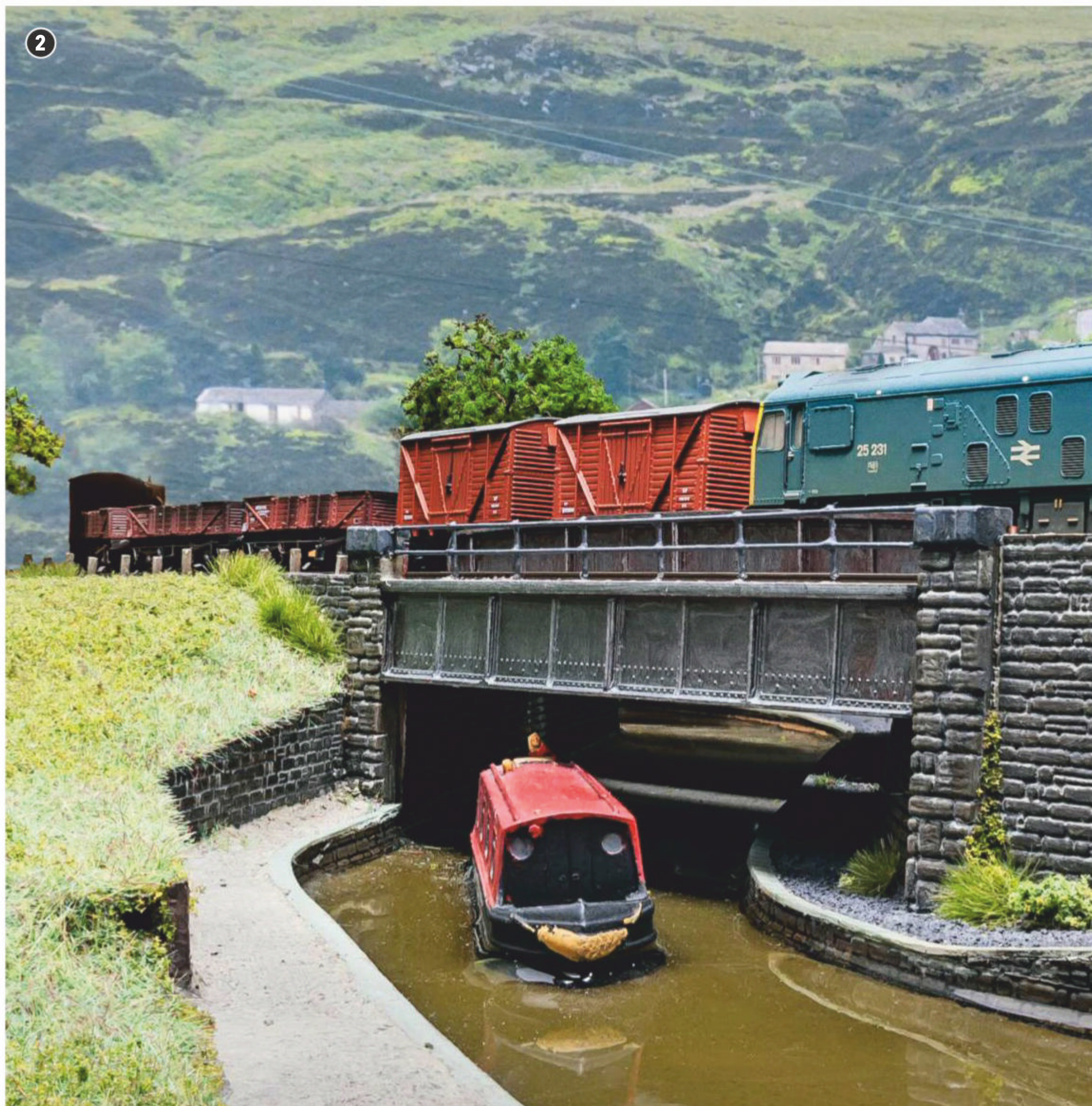
inspiring me to dabble in it after seeing his amazing ‘Stoney Lane Depot’ layout.”

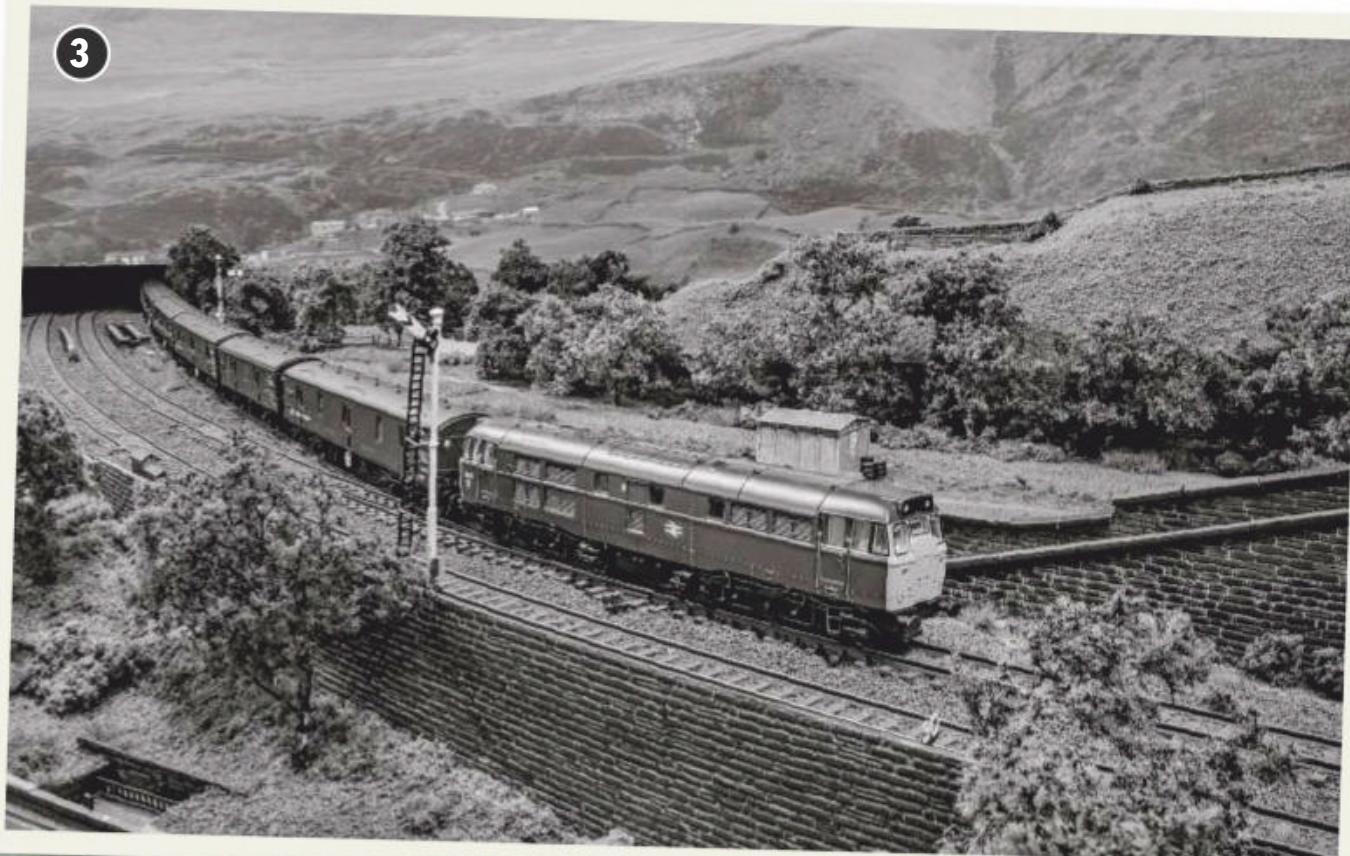
Chris Nevard’s layouts tend to depict the idyllic rolling hills and bucolic harbours of southern England. The rugged, windswept beauty of the Pennines that you see here is down to fellow modeller Gary Atkinson and his ‘N’ gauge take on the classic and much-missed ‘Woodhead Route’ that appeared in the May 2004 issue of *Model Rail*.

There are some similarities between Gary’s and Phil’s work. Both layouts are comparatively narrow, but also deep, in order to show off the majesty of the Pennine landscape. And they both feature impressive tunnels.

The tunnels at Woodhead on the Manchester- ➤

There is one working Dapol signal on the layout, but as the other signal is so close to the canal there was no room for the mechanism and therefore it’s non-operational. When planning signal placement it is always important to consider the surrounding landscape.





3 things we like



1

All the trees are Gaugemaster seafoam products.



2

The canal has been made from Deluxe Materials resin and is just the right shade of brown.



3

The tunnel portals are Peco kits that Phil has modified.

What makes this layout great?

by Richard Foster

The backscene, the scenery and the trains – everything has come together perfectly to create the look of the rationalised railway in the Pennines. It's also such a complication location to get right – but Phil has really done the location justice. (RF)



4

All of the UK's railways have some form of barrier around them. In most places this is fencing, however lengthy dry stone walls are also prototypical. Here, the sections of dry stone wall are vacuum-formed items.

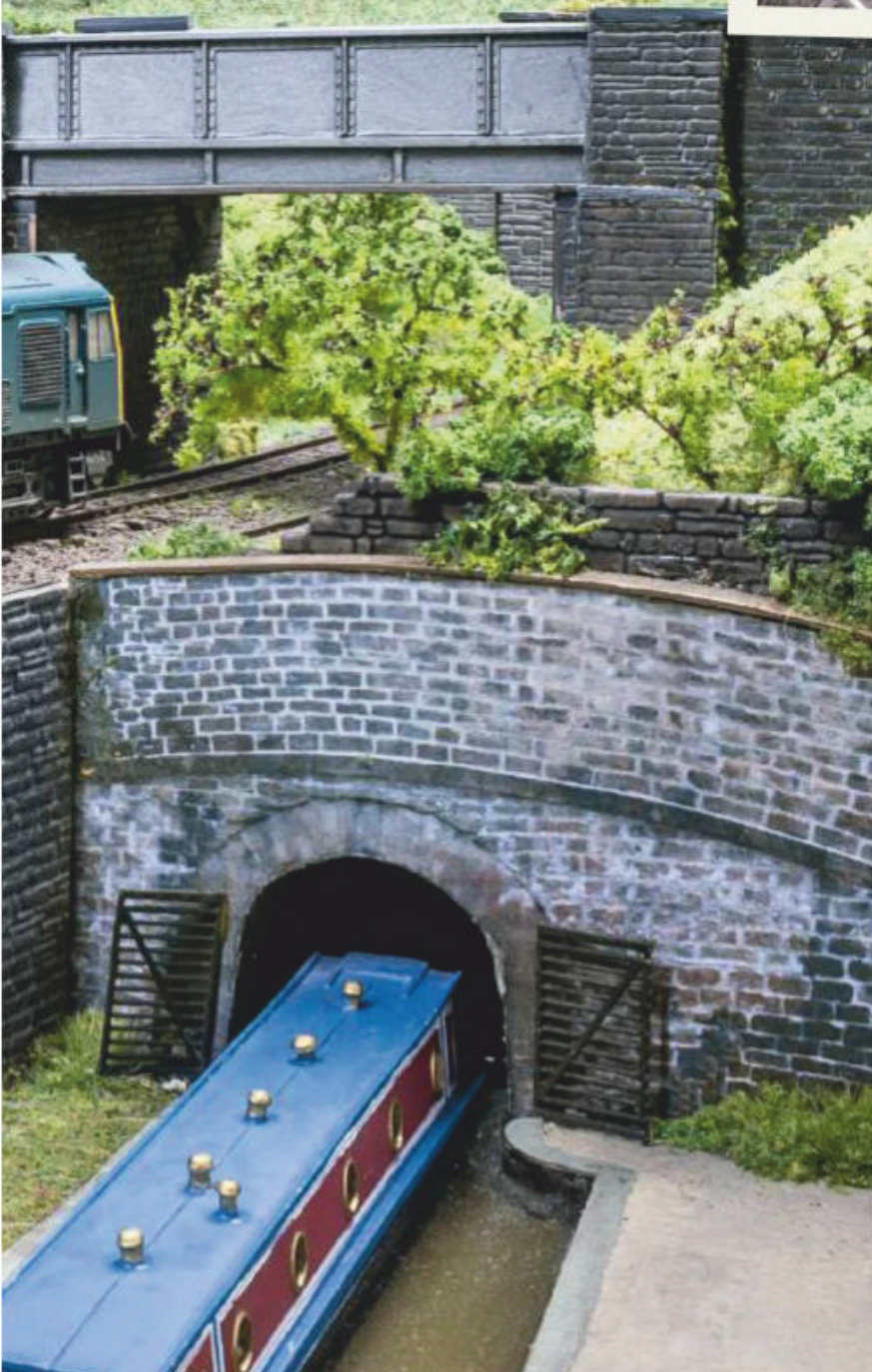
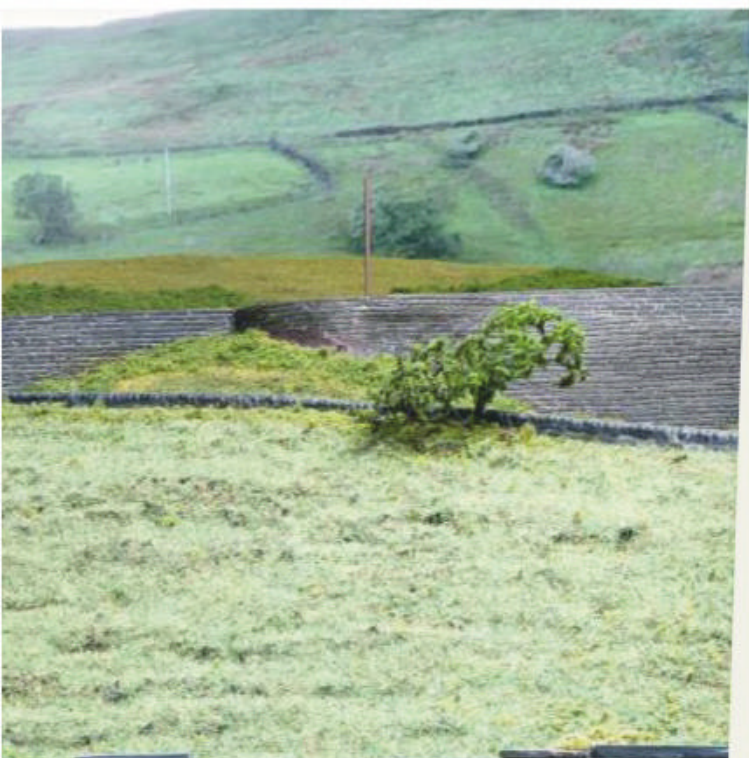
'Standedge' is pronounced 'Stannige'

Sheffield-Wath electric railway were some of the most recognisable on the national network. Photographs of the distinctive Class 76 Bo+Bos bursting from the three-mile tunnel, with the redundant portals on the left, and crossing the River Etherow, have starred in numerous books and periodicals.

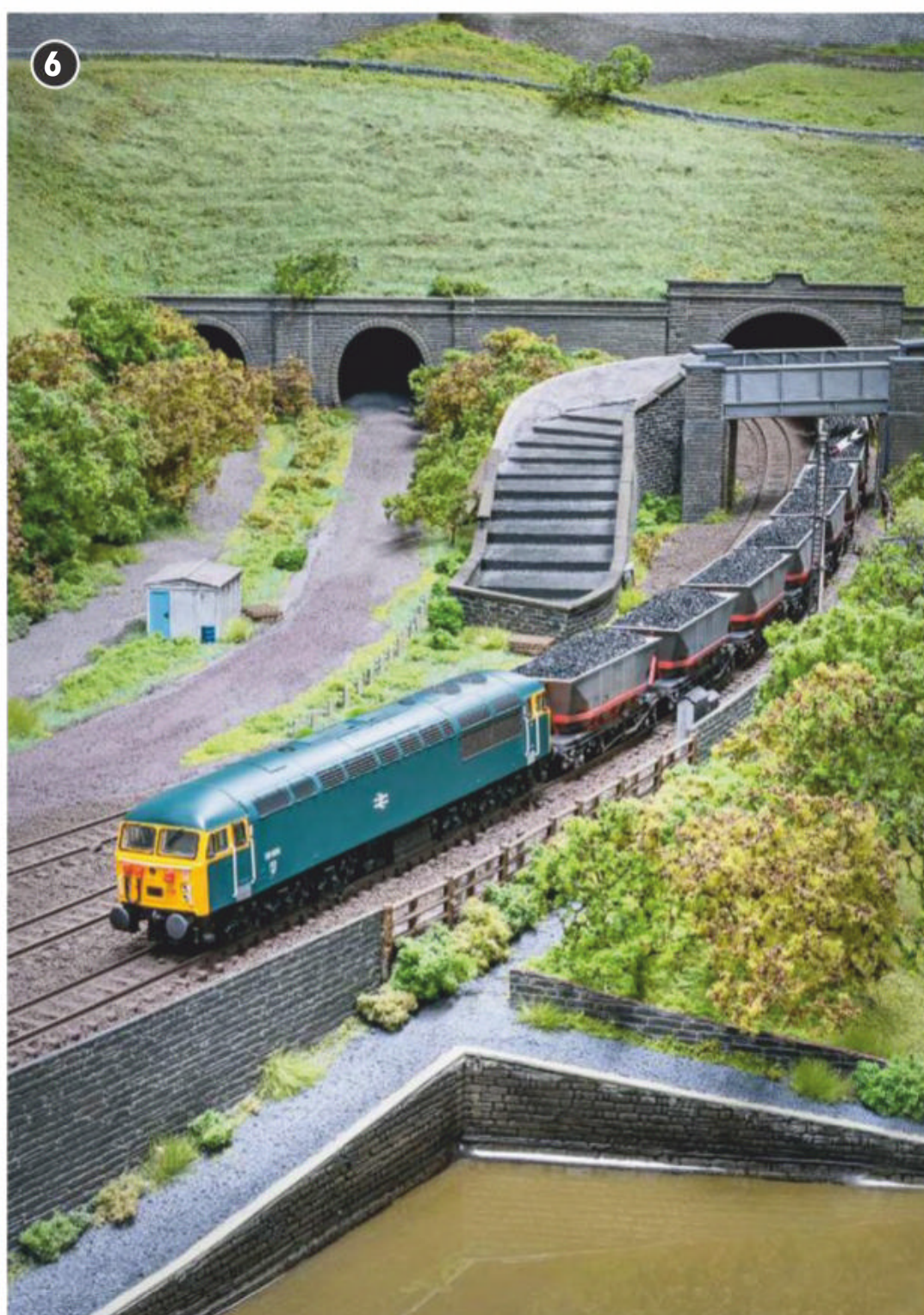
WET SIDE-STORY

Phil's layout also features a famous tunnel with redundant bores alongside... and water. Standedge Tunnel is an engineering masterpiece that's often overshadowed by its famous neighbour, just over ten miles to the south.

In fact, Standedge Tunnel is better known in waterway circles and is, as co-founder of the Inland Waterways Association Robert Aickman described it, one of the UK waterway network's 'seven wonders'. Standedge, between Huddersfield and Manchester, is a particularly 'watery' location. The tunnel on the Huddersfield Narrow Canal is nearly 700ft below the ground and is 3.2 miles long. The arrival of the railway forced an unusual engineering solution: an aqueduct takes the water over the first two railway tracks before turning almost 90° to the left and diving under the railway. Phil has always liked this corner of the Pennines



“I almost took a hammer to it several times as it’s a fiendishly complex shape to get right”



and the inclusion of a river and canal to complement the railway made it an enticing modelling challenge. But that complex aqueduct arrangement made ‘challenge’ the operative word...

“I almost took a hammer to it several times as it’s a fiendishly complex shape to get right,” admits Phil. “I’ve modelled it in its repaired state after the water broke through the retaining wall in steam days, which is why the corner looks different. I have also modelled the supporting struts behind that section, installed to prevent breakage and a repeat of the flooding.”

If that wasn’t enough, Phil decided to make life

7 'Standedge Tunnel' is 12V analogue and is controlled by a dual-control Gaugemaster unit and two handheld controllers.



“I used Ordnance Survey maps to determine the exact elevation change and slope gradient above the mouth of the tunnel and scaled that down to 'N' gauge”



even harder for himself by using real water. An electric pump underneath the layout draws the water up to the aqueduct, it flows down and then through a pipe into the water container below. Phil spent quite a while ensuring that it was snug and watertight before adding it to the layout. And, as Phil says, “real water doesn’t scale well” and so it took numerous attempts to get it to flow in the way that he wanted.

The River Colne plays an equally important role in shaping the landscape here, but some creative thinking was needed to capture the look Phil wanted.

“It took three or four attempts to get it looking right,” he recalls. “To make the ripples, I prodded the ordinary resin with a toothbrush every hour as it was curing and eventually it held its shape. After a few hours I’d created this lovely ripple effect on the surface of the water.”

BACKSCENE BLEND

It’s not easy trying to capture the wide openness of the Pennines but Phil has managed it with aplomb by carefully blending the modelled landscape with the backscene.

“I used Ordnance Survey maps to determine the exact elevation change and slope gradient above the mouth of the tunnel and scaled that down to ‘N’ gauge. Close attention was paid to the soil ridges on this slope, which are lines of PVA glue to give some definition. The slope itself was made from styrofoam covered in filler, then I added the PVA lines and Woodland Scenics scatter material.”

There is plywood facing around the foam base, which provides structural support to the lightweight structure for display and transportation. It is a good idea to do this with foam baseboards to prevent pieces of the foam from breaking off. ➤





The reason that the backscene is so effective is because it's the actual scenery you'd see at the real location. Phil couldn't rely on an off-the-shelf backscene, so he went to Standedge and took over 30 photographs before delicately stitching them together to make an image over ten feet in length, accurate to the real landscape. To give it structural support, both sides of the backscene have been given a satin laminate and it's held upright on wooden supports.

Given the quality of the landscape, you could be forgiven for thinking that Phil was a dyed-in-the-wool modeller with decades of experience under his belt and the ability to turn his hand to anything. But that's not the case.

"When I first started I wasn't a confident modeller, so a lot of items on the layout are off-the-shelf. For example, the track is all Peco Code 55 but I had difficulties when it came to the Marsden loop. The

inner line splits to allow trains to bypass the station, taking the line that goes around the back and continuing on uninterrupted. The radius of the Peco point I used is too small to allow a smooth transition, so the tracks here are not aligned particularly well. Accurately to the prototype, the lines are canted and it took me a while to get them back level for the storage area over long enough a distance to avoid derailments."

SING THE BLUES

It's difficult to put your finger on why, but BR's Corporate Blue livery always seemed to work well against the stone structures and landscape of the Pennines. There's nothing like watching a weathered blue Class 47 speed past with a TransPennine service, passing a blue/grey DMU on a local service. It's another reason why Phil's layout works so well. But modelling the rationalised track layout at the

Phil has modelled the Huddersfield narrow canal, which has been populated with two narrow boats, one of which is from the Hornby Lyddle End range.



Huddersfield end of the tunnel, with its one turnout, also allowed Phil to keep the under-baseboard wiring simple, which was important given that there's real water on the layout.

"I love big diesels and remember journeys behind them as a child, so modelling the 1980s was a natural choice for me," Phil says. "Standedge Tunnel now looks very different to the way it did in the 1980s, so I had to use plenty of photographs to get an accurate representation. Today you can't see the river as it is so overgrown, so it appears as though the flow from the reservoir goes nowhere, but in fact it flows into the River Colne."

Phil has managed to include a wonder of the UK waterways, the railway and some stunning scenery in a small space, drawing on inspiration from different modellers. Who or what, we wonder, will provide the spark for the next one? **MR**

THINGS YOU MAY HAVE MISSED



Factfile: Standedge Tunnels

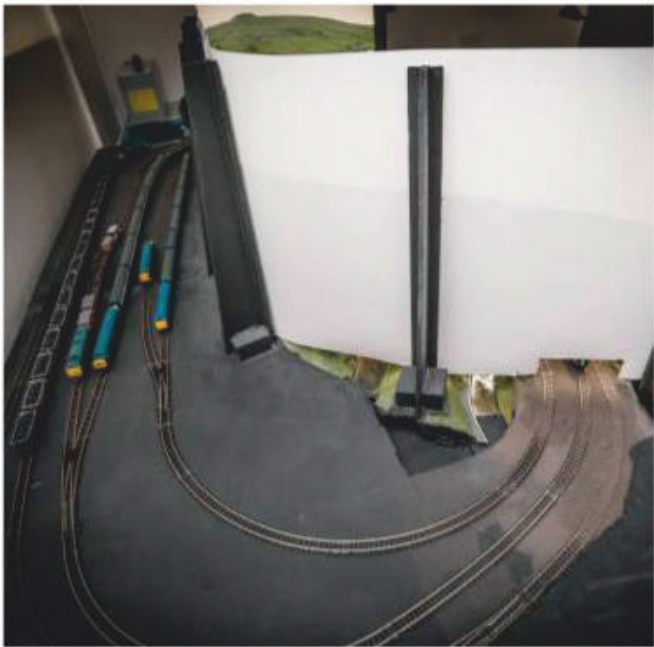
The four bores that pierce Standedge, between Diggle (Greater Manchester) and Marsden (West Yorkshire), make the location special. The first was built by the Huddersfield Narrow Canal and finally opened in 1811, 17 years after it was authorised. It's Britain's longest canal tunnel and, at over 600ft above sea level, Britain's highest canal tunnel too.

As the canal followed the valley of the River Colne, this area would become attractive to railway builders. The Huddersfield & Manchester Railway bought the canal and used

the tunnel during construction of the first railway tunnel in 1848. It became apparent that a second track was needed to avoid bottlenecks so the LNWR, which had acquired the HBR, built a second, single-track bore, which opened in 1871.

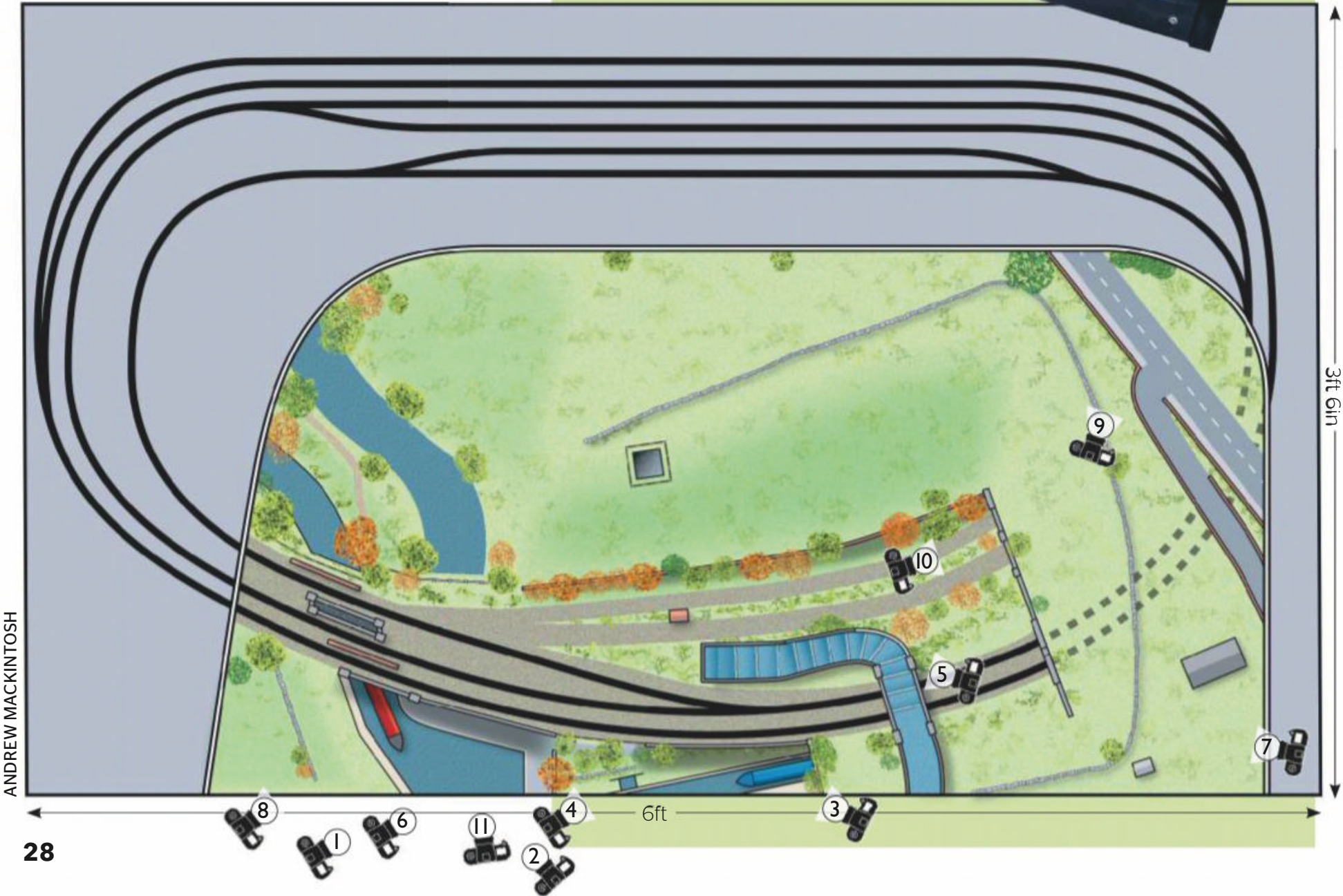
Such was the demand on this stretch of railway that the LNWR built a third, twin-track tunnel, which opened in 1894. BR closed both single-track tunnels between 1966 and 1970 but the remaining double-track tunnel is still the fifth longest on the Britain's railway network.

BEHIND THE SCENES



MODELLER CV: PHIL PORTER

I spend a lot of time away in the Arctic with my work as a university lecturer, but when I am in the UK I enjoying trail-running around various parts of the country, particularly the Chilterns.



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Meet the *Model Rail* Expert modellers



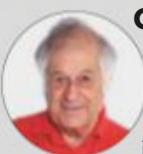
George Dent
Learn from one of the country's best modellers.



Chris Nevard
Our ace snapper is also a hugely talented modeller.



Chris Gadsby
The smaller the detail, the more interested he is.



Chris Leigh
Quite simply, what Chris doesn't know isn't worth knowing!



Peter Marriott
Scenic guru! Knows what's available and how to use it.

Project difficulty ranges from easy:  one screwdriver, to very hard:  five screwdrivers.



HOW TO

MAKE QUICK & EASY TREES

Peter Marriott picks five tree kits that guarantee great results without breaking the bank, as **Paul Marshall-Potter** shows you how to make your own.

Spring is in the air and trees are bursting into life with varying shades of lush greens and blossoms. So now's the perfect time to show you how to make attractive-looking trees for your layout. There are plenty to choose from, but with such a crowded market it can be difficult

to figure out things such as which trees offer the best quality, or which provide the best value for money. Naturally, each has its own strengths and weaknesses, but here I'll show you how to build four of the most popular tree kits on the market and give you my top tips along the way.

For comparison's sake, I've chosen ease of build, build time, cost and realism. The trees range from those with plastic trunks to those with tree armatures, and they vary in price from less than £1 to around £28 per tree. The build times range from ten minutes to over two hours.

THE BEGINNER KIT

Woodland Scenics Trees Learning Kit is the perfect choice for beginners. It's easy to use and the 18 armatures, depicting different tree types, are primarily designed for 'OO' gauge but will work really well if you need tall trees in 'N'. The only thing that slows the process down is that you need to let the Hob-e-Tac go tacky - but set up a production line and you can make a tree in five minutes.

Tools

- ◆ Scalpel with fresh blades
- ◆ Needle file or sanding sticks

N GAUGE

OO GAUGE

KIT Woodland Scenics WLK 953 Trees Learning Kit ♦ Price £16.25

AVAILABILITY
Bachmann stockists



1

The Tree Learning Kit contains 12 13cm deciduous tree armatures, six 16cm conifer tree armatures, Hob-e-Tac adhesive and two types of foliage: medium green clump foliage and conifer clump foliage.



2

Now's the time to remove the base. Cut it away with a sharp blade and remove any flash with sanding sticks/needle files. Give your armature a coat of matt brown/green to remove the plastic sheen.



3

Use your fingers to bend and twist the deciduous tree armatures into realistic, three-dimensional shapes. Real branches bend and twist in all manner of strange ways, so don't worry if your trees do the same.



4

To shape one of the conifer tree armatures you'll need both hands. Take it slowly so you have more control and avoid snapping the armature in half. Don't worry if you do though - you can then model a felled tree.



5

Brush Hob-e-Tac adhesive onto the branches of the armatures, but take care not to put adhesive onto the trunk where foliage does not naturally grow. Leave to dry until the adhesive is clear and tacky.



6

Once the adhesive is ready, dip the deciduous tree armatures into the bag of foliage. Ensure all the glue is coated in foliage, then shake off any excess. Gently squeeze it between your fingers to fix it firmly to the adhesive.



7

If there are any branches without foliage, brush a little more Hob-e-Tac adhesive onto the branch, wait until it's clear and tacky (usually around 15 minutes), and then push foliage onto the adhesive.



8

The appearance of the trees can be enhanced further once they are installed in the landscape. Spray the foliage with Scenic Cement and sprinkle on fine turf of a slightly different green. This will add colour variation.

How tall does your tree need to be?

Use the right size of trees for the scale of your layout. It's amazing how often fully grown trees look undersized alongside locomotives and buildings. Trees are taller than we think.

The height of a tree is determined mainly by its age. A silver birch can grow up to 30 metres - roughly six times the height of a locomotive - while beech trees can grow up to 40 metres. It's important to get the height right. To help you, I've formulated a table with an approximate height calculator.

Model tree height	'N' scale	'OO' scale	'O' scale
20cm	35m (114ft)	17m (55ft)	9m (29ft)
25cm	40m (131ft)	20m (65ft)	11m (36ft)
30cm	45m (147ft)	23m (75ft)	13m (42ft)

**EXPERT
TIP**

Wash any Hob-e-Tac adhesive off your hands with warm soapy water. This adhesive is very sticky!



Discover more, do more

Watch a video demonstrating how to build these at: <https://bit.ly/2VSzYE2>

Take a look at some real trees before buying models and look at the texture and colour of the bark, the branches and the leaves. Not all leaves are the same size or colour. Each tree is unique and sometimes the whole, or part, of a tree may have died. Some might have lichen or ivy growing on them and others may suffer from diseases.

THE FAST KIT

Heki makes both pre-assembled trees and kits suitable for 'OO' gauge. The kits tend to come in packs of ten, which makes them decent value. The trunks come in halves that you join together - but I never do. Firstly, the semi-circle of additional trunk seemed to be a larger width than the size of the main tree trunk. Secondly, the trees were to be planted near each other, so the semi-circular trunk nature of the main trunk would not be too obvious.

STEP BY STEP



1

This is the Heki tree kit straight out of the packaging. It's a good idea to keep the foliage in the plastic 'bubble' while you're applying it to the branches.



OO GAUGE

KIT Heki Super Artline Spruce Tree
Kit ♦ Price €11.80 for ten trees

♦ **Availability**
Web: www.heki-kittler.de

15 mins
per tree



2

Each tree consists of three parts: a tree armature, a base and a half-circle trunk for the reverse side of the tree. I didn't use the reverse half-circle piece as these trees were destined for the back of my layout.



3

I used an aerosol of brown acrylic paint to cover the trunk and branches, with the trees supported in a block of hard foam. I never use the bases as I 'plant' my trees in the landscape instead, but if you do like to use them, don't forget to paint them.



4

Here I've used the plastic packaging to contain the foliage, which I've mixed with some Woodland Scenics fine turf for variation and Deluxe Materials Scatter Grip to make some clumps.



5

Paint on Woodland Scenics Hob-e-Tac so that the armature will accept the foliage material. Only put the adhesive on the parts of the tree you would see leaves though; they don't grow all the way up the trunk, for example.



6

Dip the tree armature in the foliage material and rotate it to ensure a good covering. Do small amounts at a time, otherwise the adhesive will go off before you are ready to insert it into the greenery.



7

Here are several completed spruce trees. Note the slight variations in density and tree shape to provide variety between each one.

EXPERT
TIP

Foreground trees made from sea moss could benefit from a thicker trunk – use tree bark mix by Anita Décor, Green Scene or Treemendus.

THE NATURAL KIT

Sea foam or sea moss is more correctly called teloxys aristata and it originates from the Gobi Desert. Its shape has made it popular with modellers as, when dry, it can be used to make excellent miniature trees, from big trees in 'N' to saplings in 'O'.

Sea moss is also quite fragile, so it's best to soak it in dilute wood glue or Mod Podge. Mod Podge's range of glues and sealants is designed for découpage (creating images from lots of different cut-outs). It's available from Hobby Craft stores or www.hobbycraft.co.uk for £5.

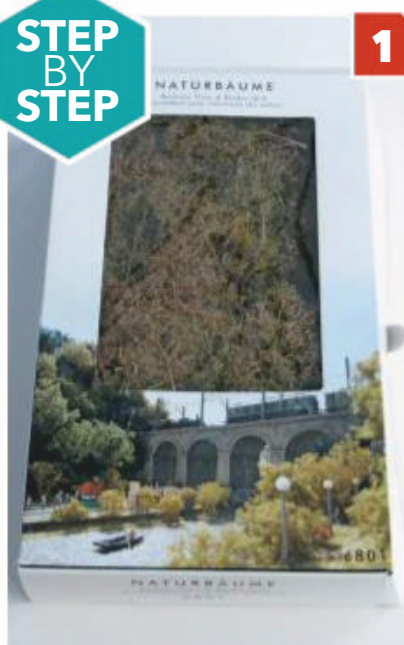
ANY GAUGE KIT Busch sea moss tree kit ♦ Price £21.50 (Busch 6801) or £23 (Noch 23100)

Availability: All Busch and Noch stockists

20 mins
per tree



These trees are good and quite cheap. However, it is difficult to leave the trunk clear of scatter material when the adhesive is sprayed on.

STEP
BY
STEP

1 This is the box of sea moss as it comes. It's a good idea to sort out the contents into those that look like full trees already, and those that are too small, as you'll find some of them require much less work than others!



2 Before using any of the pieces, remove all of the seed pods on the dried sea moss. A pair of fine-nosed tweezers is ideal for this, but if you don't have any you can do it with a knife or really carefully with your fingers.



3 Protect the sea moss by soaking it in Mod Podge or diluted white glue. Attach a clothes peg to the base of the tree so that you can hang it up overnight to dry, like clothes from a washing line.



4 I've pushed the trees into foam before spraying, but doing this means the bottom of the trunk won't get covered. Spray them with a dark paint to provide definition between the branches and the leaves when they are stuck on.



5 Using Noch spray adhesive is much faster and less fiddly than a brush-on adhesive. You'll also avoid disturbing the realistic look of the sea moss. Use three different shades of green scatter to add variation.



6 Different grades of scatter provide extra texture. Using your fingers will give you better control than the dip-and-roll technique shown for the previous trees, but it does take a little more time.

THE REALISTIC KIT

German manufacturer miniNatur's range is not cheap but, in my experience, they are some of the best quality trees that money can buy, whether you go for a kit or an off-the-shelf item. But no matter how realistic something is - there's always room for improvement! I was sure I could better my last miniNatur tree so I chose to build this weathered larch tree with a mixture of live and dead foliage that it calls 'summer'.

00
GAUGE

KIT miniNatur weathered larch summer tree kit ♦ Price €25.50

♦ **Availability:**
www.mininatur.de



What you will need

SHOPPING LIST

- ♦ UHU Holzleim wood glue, £17.00
Availability: www.amazon.co.uk
- ♦ Fine, good quality, dark brown scatter material.

TOOLS

- ♦ Sharp scissors
- ♦ Wooden coffee stirrer

STEP BY STEP HIGH-QUALITY LARCH KIT



1 The tree comes as one flat armature, which is lightweight and easy to bend. It's covered in a bark-effect material and painted in various shades of brown and grey. The base of the tree has a screw thread for fixing to a layout.



2 Hold the base of the tree armature in one hand and bend the branches in different directions. This is a five-minute job. The branches are easy to bend using your fingers.



3 Each weathered larch tree kit comes with a tree armature and two foliage mats - one green and the other brown. I found that I needed about 75% of both mats. I've kept the rest of the material for other projects.



4 I used small scissors to cut the foliage mat into pieces and tweezers to push the foliage mat into the glue on the branches. UHU Holzleim was one of the adhesives I used for this project.



5 Tease the foliage out so that it looks like this. Cut across the mat so that the strands of material will hang down on the branches. You'll need a sharp pair of scissors to cut through the matting.



6 Here's the adhesive just before a piece of the foliage was pushed into it. I used UHU Holzleim to fix the foliage. Apply a dollop on to the branches and spread with a wooden coffee stirrer.



7 Here's the finished tree - the result of two hours' work. On some of the lower limbs I used brown foliage to represent dead branches and leaves. The longer lengths were cut off once the glue had set.

EXPERT TIP

Don't use contact adhesive to attach the foliage - it leaves a shiny layer on the branches.

Production line trees

Setting up a production line is by far the easiest way to produce a number of trees quickly. Working on more than one at once saves time and is also convenient, as you can spray or paint them all in one go, rather than having to continually put paint away and then get it out again.

TOP TIP

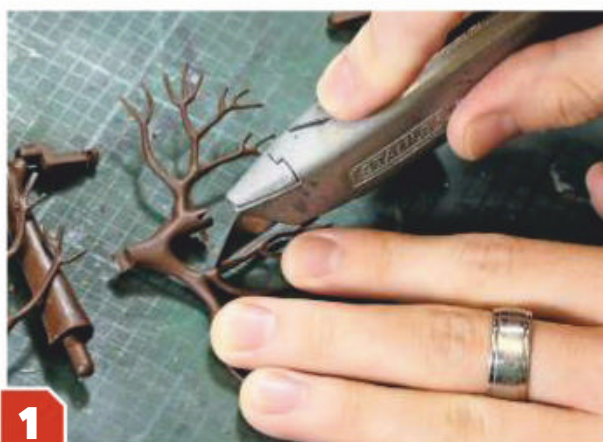
It's definitely worth spending a few minutes looking through the supplied diagrams before you start to make a tree kit - it'll help you to avoid any pitfalls.

MAKING BACKGROUND TREES

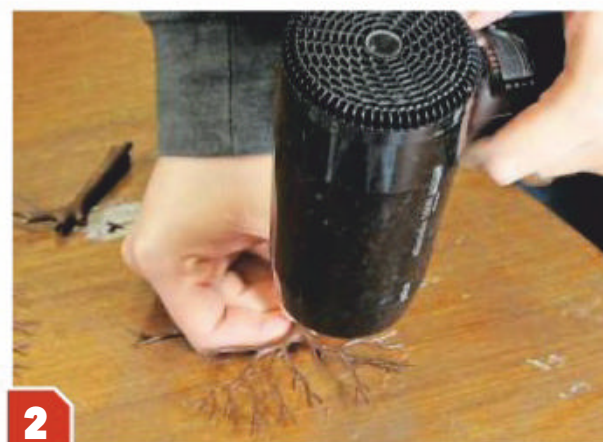
Paul Marshall Potter

demonstrates how to make a medium-sized tree.

You can make a surprisingly convincing 'background tree' in next to no time at all. These tree moulding kits from Phoenix Precision are priced at only £7.50 and contain enough components to create four 'OO' gauge trees. That works out at about £5 per tree, once you've factored in postiche (synthetic, human or animal hair) and a variety of scatters. This tree kit used to be part of the range of C&L Finescale, but has since passed into the Phoenix Precision catalogue.



1 Remove any flash or seam lines from your C&L Finescale Tree Mouldings using a sharp blade and needle file. One pack contains enough components to make four trees.



2 Using a hair dryer, gently heat the plastic until it's pliable enough to bend. The components are fairly flat, so the objective here is to splay the branches in a more realistic fashion.



TOP TIP

By Chris Nevard

Spray the trees with Halfords Khaki spray paint before adding the foliage, as this makes the branches and trunk look more realistic.



3

Use cyanoacrylate or plastic glue and fill any gaps with liquid cyanoacrylate. I like Deluxe Materials Rokat Odourless adhesive, which has the perfect consistency for the task.



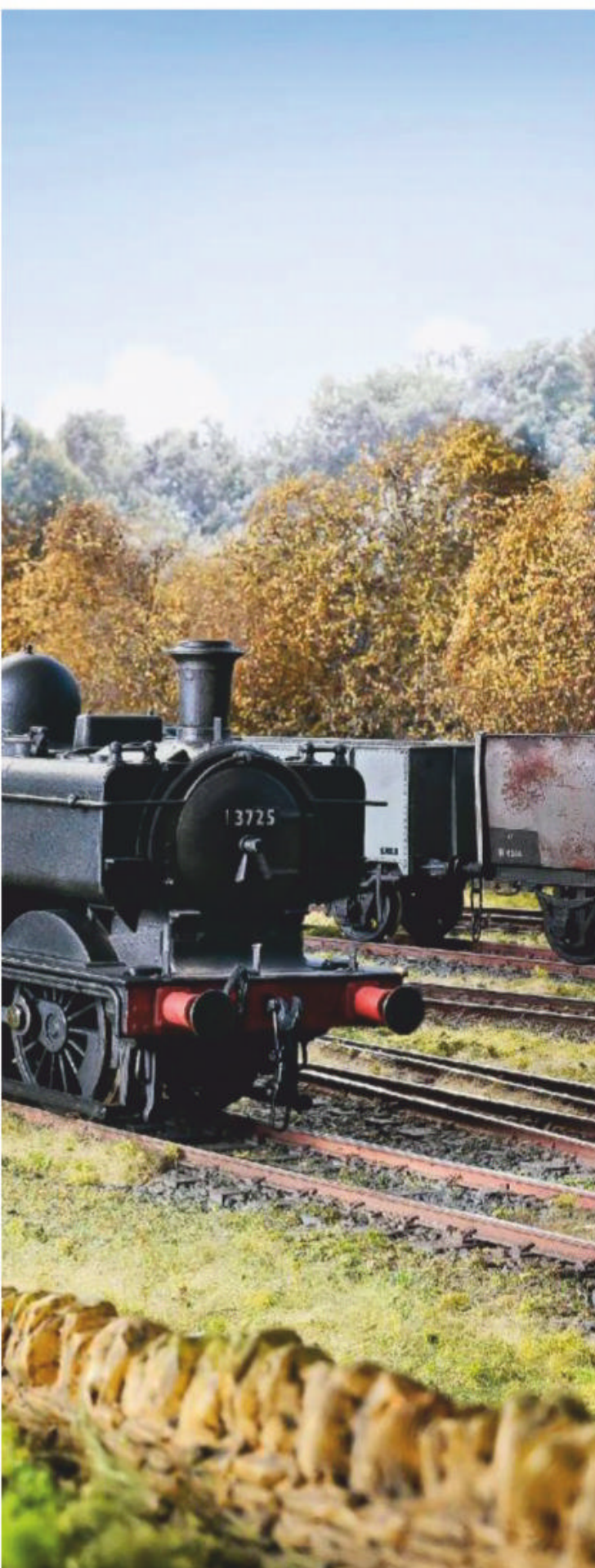
4

Prime the tree armatures. I used Halfords Plastic Filler Primer to fill any further gaps, followed by a thin coating of Halfords Grey Primer.



5

In winter, tree trunks and branches can appear almost black, especially when they're wet. Softly mist branches with black acrylic spray, allowing patches of grey to show through.



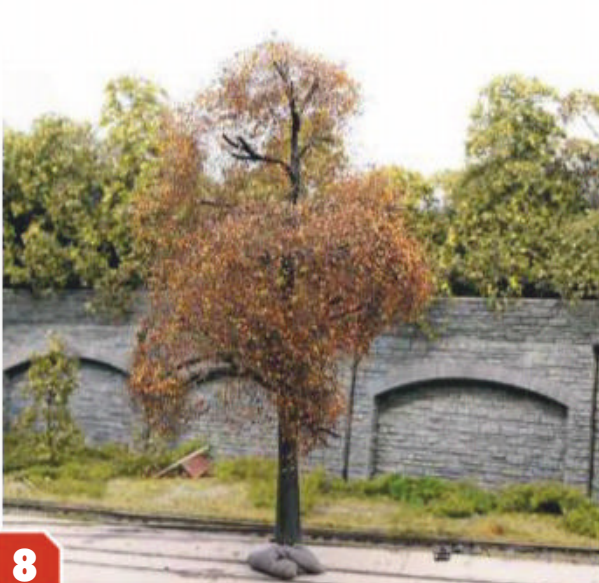
6

Gently tease out a clump of postiche to create a thin veil and drape it over the branches. This will provide an almost invisible frame on which you can affix layers of scatter material.



7

Spray the postiche frame with hairspray and immediately sprinkle your scatter material over the top. Wherever possible, try not to get scatter on the trunk.



8

Desaturate the scatter with earthy colours, and keep comparing your tree to your layout or prototype photography.

What you will need

SHOPPING LIST

- ♦ Green Scene GS319 Postiche, £2.95
Availability: Green Scene **Tel:** 01905 24298 **Web:** www.green-scenes.co.uk
- ♦ Phoenix Precision C5060 Tree Mouldings, from £7.50 **Availability:** Phoenix Precision **Tel:** 01268 730549 **Web:** www.phoenix-paints.co.uk

Scatter materials

Choose a leaf cover that matches what you've used on your layout. Go for colours that are quite muted, mixing autumn and winter colours, and the foliage and grass need to be consistent in their colour tones.

I made my own blend from four different manufacturers. If you want to copy my trees, you'll need:

- ♦ Woodland Scenics WT44 Burnt Grass Fine Turf, £3.17; WT45 Green Grass Fine Turf, £3.17 **Availability:** Osborn's Models **Tel:** 01237 423453 **Web:** www.osbornsmodels.com
- ♦ Green Scene GS 131 Woodsorrel Green Fine Grade, £2.95; GS 132 Coppice Green Fine Grade, £2.95 **Availability:** Green Scene **Tel:** 01905 24298 **Web:** www.green-scenes.co.uk
- ♦ I've used scatter material from Treemendus, Green Scenes, and Woodland Scenics, blended to co-ordinate with the 'old' grass and weed look extant on the layout track and yard area.

Colours for late Summer as per trees in article. Woodland Scenics T44 Burnt Grass/T45 Green Grass
<https://woodlandscenics.woodlandscenics.com/show/category/FineTurf>

- ♦ Treemendus Mid-Summer Scatter (Medium and Fine), £3.00 each; Late Summer Scatter (Medium and Fine), £3.00 each **Availability:** Treemendus **Tel:** 01619 732079 **Web:** www.treemendus-scenics.co.uk

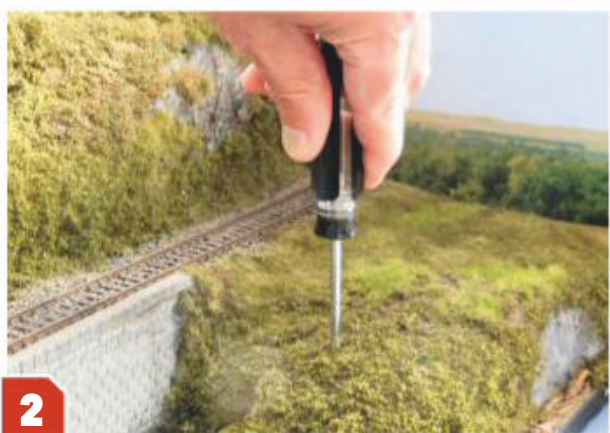
PLANTING TECHNIQUES

It doesn't matter which kit you choose, the planting technique will be the same. Here's how to do it... and there's not a spade in sight!



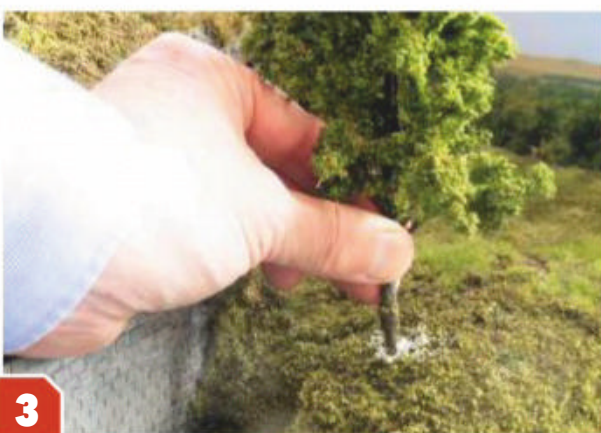
1

Cut away the moulded tree base.



2

Use a bradawl or screwdriver to press a hole into the scenery...



3

...drop a small dollop of glue into it and press the trunk into place.

4

As the excess glue splurges out of the hole, drop some scatter onto it to disguise the base of the tree.



5 Top tree tips

1 If you have a limited number of trees to plant, they generally look best in clumps of three, rather than two or four.

2 Use your best quality trees at the most prominent locations on your layout. The more basic trees can be used towards the rear of your layout.

3 Don't forget the area around the base of the tree trunk. Use foliage and scatter materials to make it look as though the tree grew out of the ground, rather than simply being glued into a hole in the scenery.

4 Before you buy or make any trees, decide upon the season in which your layout is set. There are big differences in leaf colour between spring and autumn.

5 Trees need to be of varying heights to reflect different ages and locations. In real life, some single trees standing near stations and chalets are very tall.

Take it to the next level...

If you're serious about making trees, then Gordon Gravett's two books are recommended. Both Part 1 and Part 2 of *Modelling Trees* are available from The Titfield Thunderbolt Bookshop (www.titfield.co.uk) for £21.95 each. This is their 'Pempoul' (right). Look out for their new layout, 'Arun Quay', in *Model Rail* early next year.

CHRIS NEVARD



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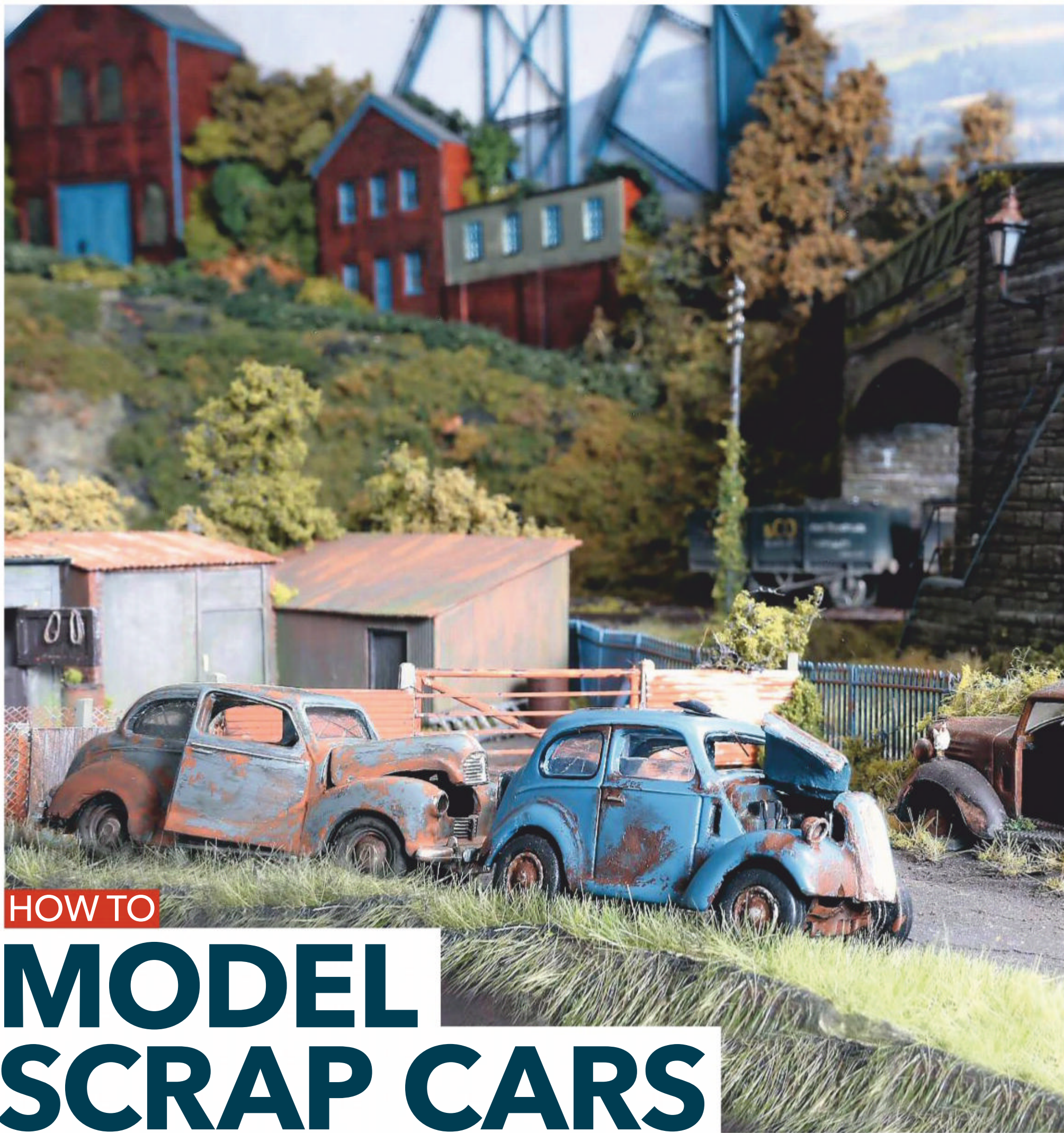
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HOW TO

MODEL SCRAP CARS

Making convincing abandoned vehicles isn't a simple matter of slapping brown paint about. **Phil Coggan** shows you how he achieved this highly detailed scrapyard look.

The saying 'if a job's worth doing, it's worth doing well' certainly applies to railway modelling. Take Pendon's epic 'Vale Scene'. Its magic comes from the simply breathtaking attention to detail. It wouldn't be the same if the houses didn't have full interiors, or the gardens lacked detail, would it?

Sometimes taking a 'Pendon approach' to modelling results in a really rewarding exercise. I wanted to include a few scrap and abandoned cars on my 'Pen y Bryn' layout

(MR260) but I didn't want what I've seen on other layouts, on which model cars have simply been painted with rust-coloured paint.

The beauty of Oxford Diecast's 1:76 scale vehicle range is that it combines great looks for ridiculously low prices. So much so that I bought myself a couple on which to experiment.

'Pen y Bryn' depicts a time when you could find pre-war cars in a rather woebegone state. So I bought a Ford Popular 103E and a Morris Eight to see what sort of 'scrappers' I could create...

TOP TIP

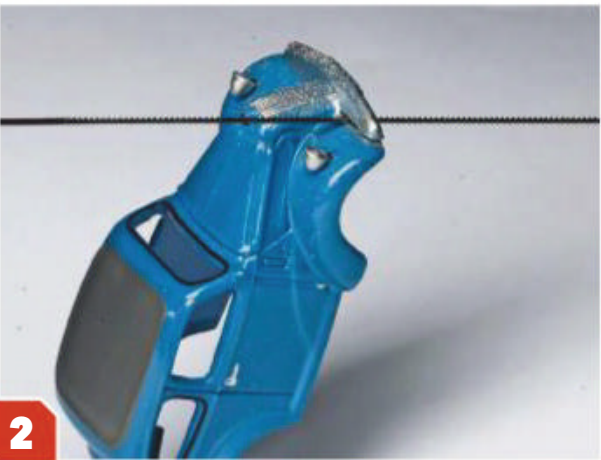
Piercing saws require care in order not to snap the blades. Cut with downwards strokes and try not to twist the blade as you cut, as that will cause it to snap. But that said, it's worth keeping a few spare blades around just in case. Axminster offers a piercing saw for just £5.15 (www.axminster.co.uk).

STEP BY STEP

PART 1 DISMANTLING & CUTTING



Most Oxford Diecast cars screw together. Remove the two screws and lift away the die-cast bodyshell. Inside, you'll find the plastic glazing unit and the plastic 'interior' tray, which forms the dash, door cards, seats and parcel shelf. How much interior you get will depend on the era of the car (older cars were much more spartan than they are today) and the age of the model itself - newer Oxford models are more detailed.



Bumpers used to be little more than bent bits of metal mounted on brackets, unlike their contemporary, sculpted counterparts. And they frequently fell off. Oxford's bumpers are part of the body casting, so cut them away with a coarse blade in a jeweller's piercing saw. Use wet and dry paper to sand and shape the bottom edge of the wings to match the body profile.



Nothing says 'old scrap car' like one with missing wings. Wings were separate panels that were usually bolted to the body and the joint would rust as muck accumulated, especially when neglected. Use a piercing saw to remove the wing, but this time use a fine blade. Use wet & dry paper to create a neat edge to the metal.



To get the best from this project, you really need to open doors, bonnets and boots. The technique is the same: use a 0.6mm drill bit in the corner of the panel gap. Thread a fine (No. 8) piercing saw blade through the hole, re-assemble the saw and cut. Take your time to avoid marking other parts of the body with the blade. I even used this technique to remove the heater vent.

9 Last but not least... Pull the headlamps from the wings. I drilled out one of the lenses.



00 GAUGE **MODEL** Oxford Diecast 76FP001 Ford Popular 103E (blue); 76MES001 Morris Eight saloon (blue) ♦ Price £5.25 each

AVAILABILITY Oxford Diecast stockists or www.oxforddiecast.co.uk

14 hrs

What you will need

TOOLS

- ♦ Piercing saw (with fine and coarse blades)
- ♦ Scalpel with fresh blades
- ♦ Wet & dry paper

STEP BY STEP

PART 2 TIDYING THE PARTS



1

Some parts may suffer damage during the dismantling process. The bottom edge of the radiator grille will have been tidied with wet & dry paper. Re-scribe the bottom edge of the grille using a scraper, ground and sharpened to have a cutting face of about 1mm.



2

The top edge of the door that forms the window frame is very fragile (it's obviously not designed to be removed!). It's easier to remove the frame and replace it with copper or brass rod, hammered flat.

The Morris Eight



I wanted to create a really derelict car and selected the Morris Eight as the guinea pig. I wanted it to represent a car that's suffered kids jumping on the roof, so I squashed the body in a vice. I cut away the front bumper as per the Ford 103E but glued it back at an angle.

I found the best way to represent dented panels with holes was to grind the inside metal with a ball-shaped burr tool in a small drill. The die-cast metal is nearly 2mm thick in places, so grind it until it's paper thin then push it with a tool to create the dents and creases.

The tyres on two wheels have been removed. To create extra interest, I filed the wheel down to create an impression of the brake drum. Four indents represent the stud holes.



STEP BY STEP

PART 3 PREPARING THE INTERIOR



1

If you've removed a door, you'll also need to remove a corresponding section of the plastic interior moulding. Cut away with sprue cutters and tidy with needle files or abrasive paper. I painted the seats and door cards with a grey colour and then weathered the interior with a rusty brown shade of acrylic paint.



2

Some miniature steering wheels can be solid, so it's worth taking time to open out the spokes. I used a small drill bit and the tip of a scalpel blade. If your car lacks a gear lever, you can make your own using more flattened copper wire.



3

You can make a representation of the engine using a block of wood or a scrap of plastic. I added radiator, coil, battery, starter motor and distributor using off-cuts of plastic rod and sheet and such like. I find silver wire is ideal for making pipes and wires.



4

My model 'Pop' had a pretty plain dash so I found a picture of one on the internet and reduced it in size so that it fitted the model. The steering wheel partially hid a few dials on the photograph, so I made some replacements using Photoshop. I stuck the new dash in place with PVA.

STEP BY STEP

PART 4 THE FINAL DETAILS

1



Re-assemble the car by screwing the body back in place. Fix the bonnet, door and boot with cyanoacrylate. Now it's time for the fun bit - really making your car look like scrap.

2



The removed wing will reveal the suspension - or lack of it. I made the damper and top and bottom wishbones from wire. The spring is simply more wire wrapped around another piece of wire.

3



Scrape away the painted vinyl roof with a blade and the chipped paint will resemble the remnants of glue. Tear and fold some paper and glue it to the roof. The weathered paint was a dirty mix of watercolour paint.

4



You can use plastic sprue cutters to cut one of the window units and make it look as though the glass has fallen into the door. Scratch another window with the tip of a scalpel to make it look as though it's cracked.

5



One of the first things to 'fail' on an abandoned car are the tyres. They'll quickly deflate if left unchecked, especially as the rims rust. Cut away the bottom of the tyre with a craft knife and use Araldite to bulge the bottoms of the tyres.

6



I painted the inside of the door with the same grey I'd used for the interior. I then used more silver wire to create the door handle and window winder.

7



The final job was to rub the body with a Sandflex fine abrasive rubber block before applying a mix of Red Leather and Flat Brown acrylic paint.

What's Next



These techniques are transferable to all manner of road vehicles. This Pocketbond Austin K2 lorry has undergone quite a transformation!

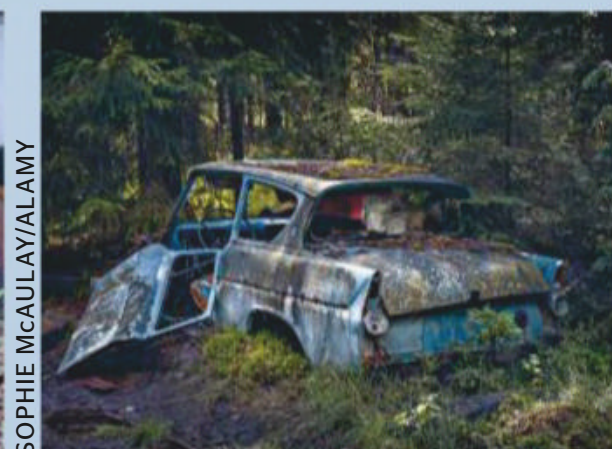
DID YOU KNOW?

Sandflex sanding blocks are made in the US and act like a pencil eraser; you rub them over metal to remove rust. There are three grades and you can order them for £36.28 from Amazon.

Scrap car inspiration



DANIPICS/ALAMY



SOPHIE MCAULAY/ALAMY



JOHN JAMES/ALAMY



HOW TO

CHOOSE THE RIGHT TOOLS

Want to know how **Peter Marriott** achieves scenic success? It's all down to the tools...

A bad workman might blame them, but when it comes to modelling, having the right tools is imperative, just as it is for DIY or working on cars. The beauty of being a railway modeller rather than an amateur mechanic is that the tools you need for this hobby are comparatively inexpensive!

The tools listed here are the ones I use on every project I do for *Model Rail*. If I find that any are broken or are past their best, I buy replacements immediately.

Most model railway scenery is built using plaster cloth, timber, cardboard and, increasingly, hard foam. Here is what you need to put together a basic kit for dealing with these materials, as well as some others that will come in handy for ballasting your track or installing the electrics.

Having the right tools to hand makes modelling easier, quicker and more satisfying. Buy the best you can afford and, as long as you take care of them, they should last a lifetime of layout building.

Model tool makers

Tool suppliers regularly attend the larger model railway exhibitions. These include Squires (www.squirestools.com), Eileen's Emporium and Expo Tools (www.expotools.com). Gaugemaster retails its own range of tools online (www.gaugemaster.com), Hobbycraft stores carry a good range (www.hobbycraft.co.uk) and Deluxe Materials (www.deluxematerials.co.uk) retails its own range online and through designated dealers. Bachmann now has its own range of tools, also available through retailers (www.bachmann.co.uk).



CRAFT KNIFE

This is probably essential for any modelling toolbox. Sheffield's Swann-Morton is the Rolls-Royce of scalpels and there are several different handle and blade configurations to suit different tasks. Woodland Scenics Foam Knife makes light work of hard foam with its 2in blade.

Where can I buy one?

■ Scalpels & Blades has Swann-Morton handles for under £4 and boxes of 100 blades for just over a tenner.

Availability: Scalpels & Blades, West Street, Stoke-sub-Hamdon, Somerset TA14 6QG **Tel:** 01935 825555

Web: www.scalpelsandblades.co.uk

■ Woodland Scenics WST1433 Foam Knife, £9.75 **Availability:** Bachmann stockists

TOP TIP

Knife blades will dull quickly. Always keep a stock of fresh blades handy and change them regularly - a dull blade will not cut cleanly and could snag on the material you're cutting.



FOAM NAILS

These T-shaped metal pins are around 2in long, and they're really useful for holding together scenery while you build it, particularly for holding hard foam pieces together as the adhesive cures. They are also good for supporting trees and other accessories when they're being fixed into the landscape while the glue is drying.

Where can I buy one?

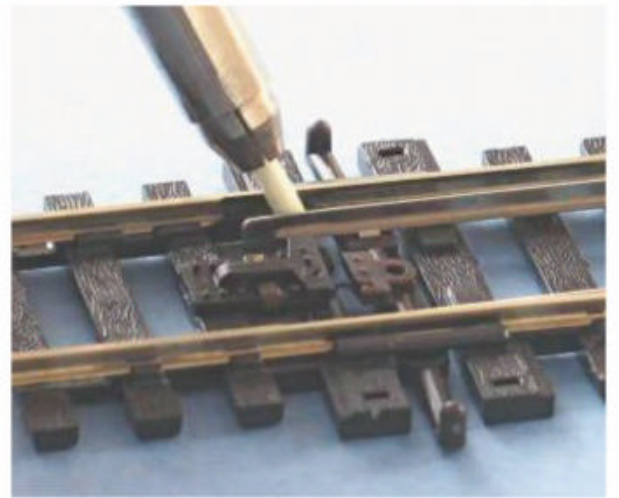
Woodland Scenics WST1432

Foam Nails (x75), £6.75

Availability: Bachmann stockists

TOP TIP

Can also be used for holding track to a foam baseboard as the glue is drying under the track. Holds buildings *in situ* as the adhesive fixing it to the layout dries.



GLASS FIBRE BRUSH

These work on the same principle as a propelling pencil and so the fibres can be pushed out as needed. The beauty of the glass fibre pencil is that you can get an effective abrasive into places that a needle file won't go - or where a needle file is too heavy. You can also use a glass fibre brush to gently distress 'metal' finishes.

Where can I buy one?

Gaugemaster GM633 Glass Fibre Pencil, £4.95

Availability:

Gaugemaster **Tel:** 01903

884488 **Web:** www.gaugemaster.com



TOP TIP

Always wear rubber or latex gloves when using - the fibres can get stuck in your skin and cause much irritation.



HAMMERS

Railway modelling is generally a little delicate for the 'Brumamagen screwdriver' but there is one task at which it will excel - knocking in trackpins. Use a crosspein hammer or modelling hammer with a head that's narrower than your track gauge, if possible. A hammer can also be a useful weighty item for holding something down as the glue cures.

Where can I buy one?

Rolson 10117 4oz Crosspein hammer, £2.05

Availability: Rapid Electronics Limited, Severalls Lane, Colchester, Essex CO4 5JS

Tel: 01206 751166 **Web:** www.rapidonline.com

TOP TIP

Prevent damage to your track by holding your trackpin in the jaws of a small pair of pliers.

DRILLS

We need to make holes in all sorts of things, from big holes in baseboards to tiny holes in bufferbeams to accept miniature brake pipes. An electric mini drill is perfect for drilling holes in baseboards to accept wires or bases for miniature catenary or trees. If you're very careful, you can use it to drill small holes in models, or for adding detailing accessories, but most will probably prefer to go with the hand-held pin vice for such delicate work.



Where can I buy one?

■ Rotacraft RC12VS Rotary Drill Tool Kit, £44.46 **Availability:** Peter's Spares, 2J Brighthouse Business Village, Middlesbrough TS2 1RT **Tel:** 01642 909794

Web: www.petersspares.com

■ Jeweller's Pin Vice 502420, £5.10

Availability: Axminster Tool Centre Ltd, Unit 10, Weycroft Avenue, Axminster, Devon EX13 5PH **Tel:** 0800 371822

Web: www.axminster.co.uk

TOP TIP

A mini drill set will usually include cutting discs and sanding strips, making it a particularly useful addition to your tool kit.

PAINTBRUSHES

You can never have too many paintbrushes! Because they do wear out after a time, it's always worth having replacements in stock. Flat brushes are good for painting larger areas, while pinpoint brushes are best for finer work. There is no need to buy expensive paintbrushes just to cover large areas, such as the base colour of the scenery, or for painting a road. DIY domestic paintbrushes will do a good job of such tasks. Buy quality brushes for areas that require extra finesse.

Where can I buy one?

It's more a case of where can't you buy paint brushes from. Humbrol is a good starting place and offers four-packs from £4.39 for different applications. Sable-hair artist's brushes are still the best that money can buy.



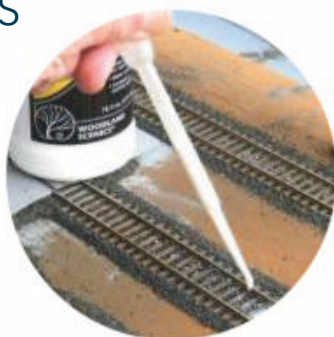
TOP TIP

Don't throw away an old paintbrush. You can use dead ones for applying PVA glue, or even use the handle to stir paint.



PLASTIC SYRINGE AND PIPETTES

Do you end up slopping PVA everywhere? Or getting plastic cement on to areas of pristine paintwork? Then you need a way to apply controlled amounts of glue – or water fluids – and that's where a pipette or specialist glue applicator comes in handy.



Where can I buy one?

Deluxe Materials AC-8 Pin Point Glue Syringe Kit, £6.25; Gaugemaster GM595 1ml Pipette Set, £2.95 **Availability:** Gaugemaster **Tel:** 01903 884488 **Web:** www.gaugemaster.com

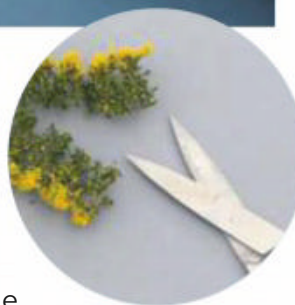
TOP TIP

Prolong your pipette or syringe's life by washing it with warm, soapy water after you've finished using it.



SCISSORS

You'll need a pair of good-quality scissors for cutting plaster-impregnated cloth into pieces, cutting foliage mats and cutting curves into paper when cutting out road signs and other details.

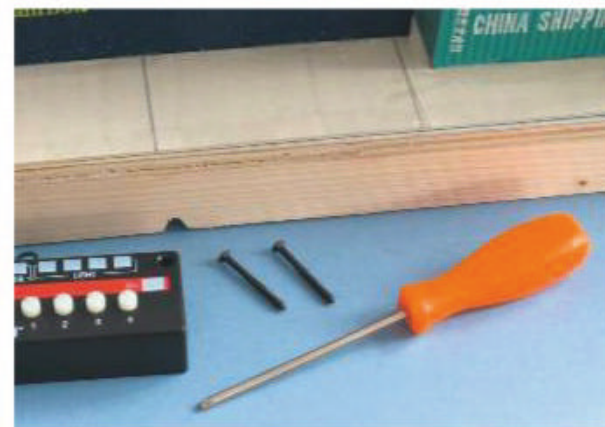


Where can I buy one?

Axus Décor 39748 stainless steel scissors, £16 **Availability:** Tool Station stores or www.toolstation.com

TOP TIP

Your household management will not be best pleased if you use the kitchen scissors to cut up pieces of plaster cloth... buy a dedicated pair.



SCREWDRIVERS

Flat blades, crosshead, Phillips, Pozidriv – there are so many screwdriver types available that it's difficult to know exactly what to buy. We need a selection for model making, from heavy duty affairs for making baseboards to jewellers' screwdrivers for dismantling model locomotives.

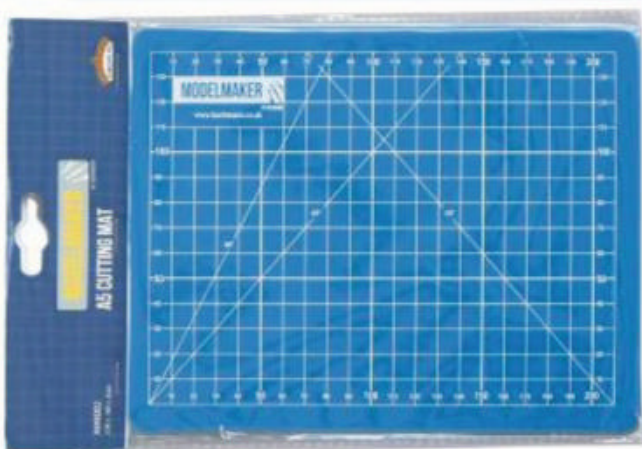
Where can I find one?

■ Jeweller's Screwdriver Set 77000, £3.95 **Availability:** Expo Tools, Unit 6, The Salterns, Tenby SA70 7NJ **Web:** www.expotools.com



TOP TIP

Magnetised screwdrivers are essential for working with the tiny screws you find in miniature locomotives.



SELF-HEALING CUTTING MAT

A cutting mat is vital for protecting your work surface when working with sharp blades. A self-healing mat will, as its name suggests, close over any slices made by a knife. They're available in all sizes, from A6 to A2.

Where can I buy one?

Axminster Self-Healing Cutting Mat A4, £3.94 **Availability:** Axminster Tool Centre Ltd, Unit 10, Weycroft Avenue, Axminster, Devon EX13 5PH **Tel:** 0800 371822 **Web:** www.axminster.co.uk

TOP TIP

Get the largest cutting board that you can fit on your workbench.



STEEL RULE

A steel rule is always recommended over a plastic or wooden ruler because the blade of a sharp craft knife will not cut into the metal. They're essential when cutting cardboard, plastic and wood.

Where can I buy one?

Magnusson 300mm rule, £1.98 **Availability:** From B&Q stores or www.diy.com

TOP TIP

Go for a 12in rule rather than a 6in one when you need to cut larger pieces.



TWEEZERS

Good for positioning figures and other small details into dabs of adhesive on layouts. They're also useful for pushing signs into place on buildings and putting fence posts into drilled holes in the baseboard.

Where can I buy one?

Gaugemaster GM609 Stainless Steel Tweezers, £7.95 **Availability:** Gaugemaster **Tel:** 01903 884488 **Web:** www.gaugemaster.com

TOP TIP

It's worth finding a pack that contains a variety of tweezer types.

ALSO VERY USEFUL...

- A bucket for making plaster bandage
- Static grass applicator, either an electrostatic tool or just a puffer bottle

- Hot glue gun and glue sticks
- Track cleaning block
- Vacuum cleaner

NEW MODELS

All versions are now available for ordering from your local HELJAN stockist!



OUT NOW!

EE/BR Class 37/4 Co-Co diesel - 'O'



Features: Authentic details - LED lighting - DCC friendly - Twin motors **SRP £599,00**



3740 - 'Heritage' green with small yellow panels
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3743 - EWS

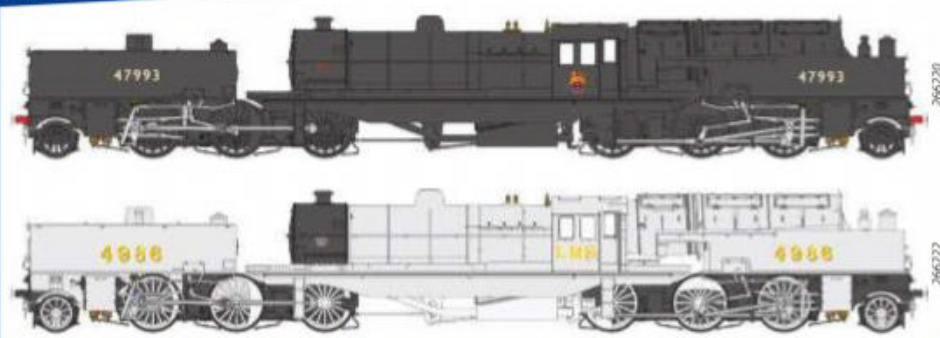


3744 - Regional Railways



3745 - Triple-grey sector livery

EXPECTED SOON!



Beyer Garratt LMS / BR - 'OO'

266213
LMS 4993

266218
BR 47978

266214*
LMS 4984 - lightly weathered

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BR 47988 - lightly weathered

266215
LMS 4982

266220*
BR 47993 - heavily weathered

266216
LMS 7973

266221
BR 47971

266217
BR 47979

266222
LMS works grey 4986

SRP £249,00

*SRP, weathered versions £259,00

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NINE NEW VERSIONS!



Ruston & Hornsby / BR Class 07 - 'OO'

V1 2904 - D2986 in BR/SR green

V1 2905 - D2988 in BR/SR green

V1 2906 - D2991 in 'Eastleigh' works green

V1 2907 - D2998 in BR blue

V1 2908 - 07002 in BR blue

V1 2909 - '07006' in industrial Powell Duffryn blue/white

V2 2914 - 2989 in BR blue

V2 2915 - 07009 in weathered BR blue

V2 2916 - 07005 'LANGBAURGH' in industrial ICI grey

SRP £139,95



HOW TO

BUILD YOUR OWN BRIDGES

Need a specific bridge? Arch-modeller **Chris Leigh** spans the knowledge gap with techniques and step-by-step guides for creating bespoke structures.

I described how I created a unique bridge for my 'N' gauge re-creation of the Staines West branch in the October 2018 issue (MR253). This was a comparatively simple overbridge and resulted in a proportionally simple build.

But there were two more bridges on the branch: a skew-arch bridge that took the railway over the Wyrardisbury River and another, curving bridge with the main line to Windsor underneath. Both were far trickier affairs, particularly the bridge over the



Windsor branch. The orientation of my shelf baseboard places this bridge on a sharp right-hand curve, not a left-hand one.

Such obstacles would never put off the Victorian railway builder, so don't let them put you off either. You can use the techniques I describe to create bespoke bridges for your layout.

Wyrardisbury river bridge

Having already climbed to cross the LSWR, the branch headed due south with the river on its right. It would have to cross the Wyrardisbury river (pronounced 'Wraysbury') to reach its planned terminus, but the Staines & West Drayton Railway was desperately short of money. We cannot be sure what sort of bridge was built to cross the river but, according to historical accounts, it fell down shortly before the railway opened. In haste, the S&WDR erected a replacement bridge with two yellow brick arches. Unlike other bridges, it was built to carry a single track.

In fact, the Wyrardisbury river bridge was a 'mini-viaduct' constructed in yellow London brick with arches of engineer's blues and was arguably the best-looking structure on the branch. Completed in 1885, it was removed soon after track-lifting in 1981 and it's thought that the resultant rubble was used under the Yeoveney to Poyle section of the M25.



One of the most unusual trains to visit the Staines West branch was a railtour formed of two '4-TC' units and Class 33/1 33113 in October 1976. The tour crosses the Wyrardisbury river bridge with the Class 33 propelling towards Staines West. KEITH WILLOWS/CJL COLLECTION



STEP
BY
STEP

1

I considered using a carefully scaled photograph as the basis of this model, but it proved too difficult to match the brick colour. The photograph was used to check against the layout to ensure that the bridge would fit.



2

I did, however, cut the dark brick arches from the actual photograph, but made up the string courses and any other details using thin card faced with Scalescenes' London brick paper.



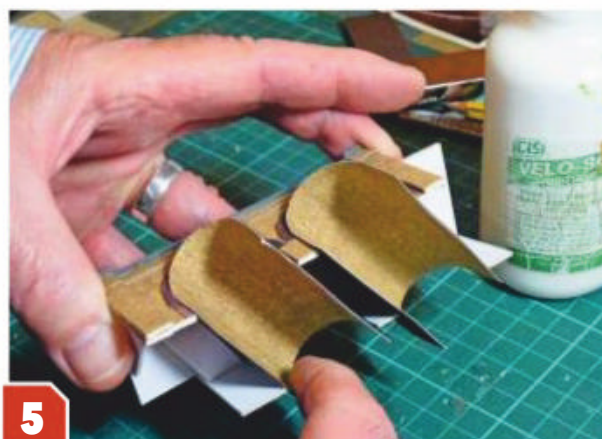
3

In order to avoid having exposed white card edges, the string courses were cut from black cartridge paper faced with the Scalescenes London brick paper.



4

As the trackbed and track was already in place, the bridge had to be assembled around it. Note how I cut the brick paper to allow it to wrap around the arches.



5

The arch linings were cut over-size. I then cut various card pieces to hold the shape, attaching the front wall, but leaving the back wall until after installation on the layout.



6

Having set the angles of the various parts correctly, and glued them with Velo-set adhesive, the next job was to trim back the arch linings flush with the wall.



7

With the main assembly complete, except for the back wall, which remains loose, the central cutwater and the outer piers were cut from balsa sheet and brick-papered.



8

This assembly was then installed on the layout and glued into place. I painted the brick arches grey to match the top cappings. Two triangular wing walls were added to the front elevation.



9

At this point I decided that the river needed to be deeper, so I cut out two layers of foamboard and angled the edges to represent the river bank. The central cutwater also needed to be deepened.



10

The scenery was then blended in around the bridge using plaster bandage and a mix of scenic plaster and Woodland Scenics earth undercoat was applied.



The Wyrardisbury river bridge shortly before its demolition in 1981. Periodic clearances of the channel were needed, particularly through the left-hand arch. CJL COLLECTION

Windsor line bridge

The bridge across the LSWR's Staines to Windsor branch was its biggest civil engineering feature. It negated the need for the Staines & West Drayton Railway to negotiate with the LSWR, a direct competitor, for the provision of a flat crossing.

Accordingly, a man-made incline across Staines Moor raised the branch to a height sufficient to cross the LSWR. The bridge itself was somewhat more substantial than it needed to be, having been built to carry two tracks. Despite such optimism, the branch



Above: This view from a public foot crossing that has since been closed, shows that, though the girders are a single, full-width span, there is a supporting brick pier in the centre. CHRIS LEIGH

Left: Here's a wealth of detail: the corrugated bed on the unused span and the conventional ballasted track on the Down side. A permanent way hut stands on the 'unused' trackbed. KEITH JAGGERS

was never double track. There was no connection between the two railways until the Second World War, when a spur was put in to enable north-south military traffic to by-pass London.

During construction of the King George V and Queen Mary reservoirs, a Metropolitan Water Board siding branched off the Up Windsor line and passed under the left-hand span before diverging across the edge of the moor.

STEP BY STEP



1

The short length of track shows the approximate position of the SR lines. I began by cutting away the foamboard supporting the branch track at this point.



2

Both faces of each girder needed to be detailed. I used pieces of 20thou styrene sheet 150mm by 10mm with Evergreen .020in by .040in strip for the ribs, fixed with liquid poly cement.



3

For the riveted tops of the girders, I used a Scalelink etched fret that I'd had in stock for many years. However, this is no longer available. Archer AR88025 from DCC Supplies may be a suitable alternative.



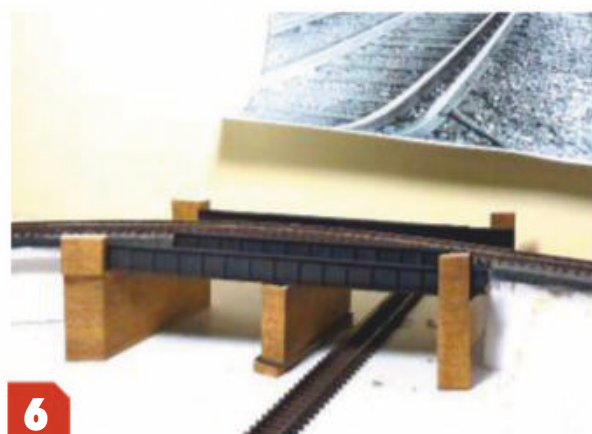
4

The bridge deck is a single piece of 30thou styrene sheet to which all three girders are attached. On the side where they would be visible I added 4mm by 30thou strips, evenly spaced to represent the corrugations.



5

Next, I test-fitted the bridge in place. As the track is curved and the bridge is straight, precise positioning will be critical. Once I was happy that it all fitted, I sprayed the whole bridge matt black.



6

The three supporting piers were then made up just as I had done for bridge No. 1 (MR253) using mounting card and 1/8in thick balsa, cut to shape and covered with Scalescenes 'N' gauge London brick.

What you will need

SHOPPING LIST

- ◆ .020in styrene sheet
- ◆ 90732 .030in by .040in and 90710 .010in by .020in styrene strip
Availability: www.plastruct.com
- ◆ Plastic Magic liquid adhesive
Availability: www.gaugemaster.com
- ◆ Brick paper
Availability: www.scalesscenes.com

TOOLS

- ◆ Craft knife
- ◆ Steel rule
- ◆ Cutting mat



7

The piers were not yet complete or assembled, but it was time for a test-fit and a trial run before anything was fixed in place. As expected, clearances are tight and it will be necessary to keep checking as the bridge is glued in place.



8

The size of some 'N' gauge features can be gauged from the platelayer's hut beside this Humbrol paint tin. The hut was folded up from postcard, faced with 1/32in thick balsa and roofed with 20thou styrene sheet.



9

It pays to have your reference photographs on hand before you start installing scenery. I made the slope up to the bridge double track width. It wasn't and I had to strip it out and start again!



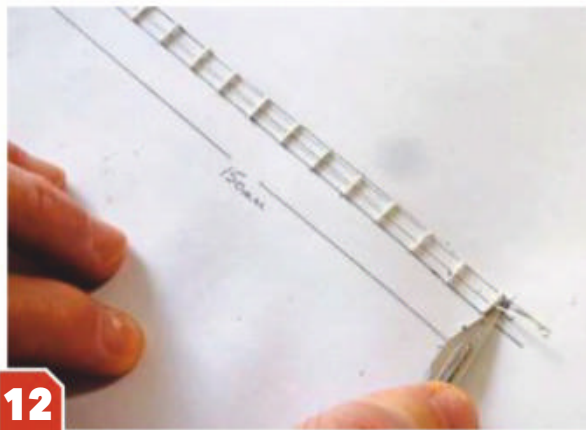
10

When installing a straight bridge on curved track, it's important to check clearances with the longest items of rolling stock. Water from scenic work has damaged the brickpaper, so this will have to be re-done.



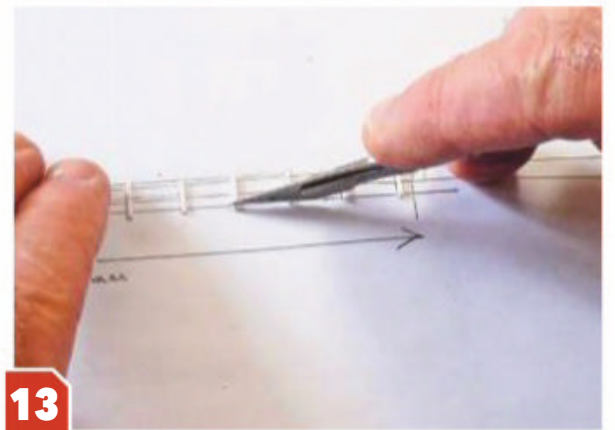
11

I had planned to omit the railings as I thought they would be too fiddly, but the bridge did not look complete without them. I bought some packs of very thin Plastruct strip and drew the railing on white paper.



12

I made up the railing on top of the drawing and assembled it with Plastic Magic liquid cement. A craft knife was slipped between the railing and the drawing to separate the two once the glue had dried.



13

Before fitting the railing in place, I trimmed the vertical posts to the same length against the drawing. It would have been easier to paint it before installation.

The bridge is crossed by a Dapol NBL Type 2 heading stock that will, in due course, become a weedkilling train.

MODEL RAIL

Skills Station

Welcome to Skills Station. Whether you're a beginner or an experienced modeller looking to hone your skills, our team of experts will split a modelling

task or skill into easy-to-follow, bite-sized chunks, busting myths along the way.

Join our Facebook group and you can post your pictures and

chat to fellow modellers all learning the same skills. We'll offer friendly feedback and tips to make you even better! Happy modelling!



Richard Foster Editor



*Join our group on Facebook by searching for
Model Rail's Skills Station*



THE ESSENTIAL GUIDE TO AIRBRUSHING

Pt 5: CREATING THE PERFECT FINISH

George Dent reveals the secrets to achieving a flawless paint job.

Join Skills Station at www.model-rail.co.uk/skills-station

AEROSOLS VS AIRBRUSHES

There's a common misconception that airbrushing provides a rapid means of painting models, in a similar manner to aerosol cans. Surely, all you need to do is point the tool at the subject and blow a load of paint at it?

That may be true of industrial spray guns working on large objects, but the typical hobbyist's airbrush is more of a precision instrument. Accordingly, we need to treat it with respect and work to its strengths.

As we'll see, the route to creating a high-quality paint finish with an airbrush involves a patient approach, especially when dealing with complex three-dimensional objects such as steam locomotives.

Targeting and regulating the paint accurately is essential, ensuring that the object is covered consistently, even into the most awkward of areas – something that is very difficult to achieve with an aerosol.



It takes time to build up a consistent finish with an airbrush, but the effort is worthwhile. We can preserve fine detail relief – rather than smother it with excess paint – as is often the case when using an aerosol.



MISTING IS THE WAY TO GO

In order to stay in control of the painting process and avoid the risk of creating puddles, we need to regulate the

flow of paint carefully. During the early phases in particular, keep the paint flow to a gentle mist – this is where the practice work with the trigger, as outlined last month, proves its worth. It's also a time when an airbrush's pre-set handle (if fitted) really comes into its own, allowing the paint output to be limited.



Always keep a sheet of paper at hand for testing the paint flow, before aiming the airbrush at a model.

Pre-set handles help to regulate the flow of paint from the airbrush. Simply dial the knob at the airbrush's tail to increase or decrease the output.



HOLD IT FAST

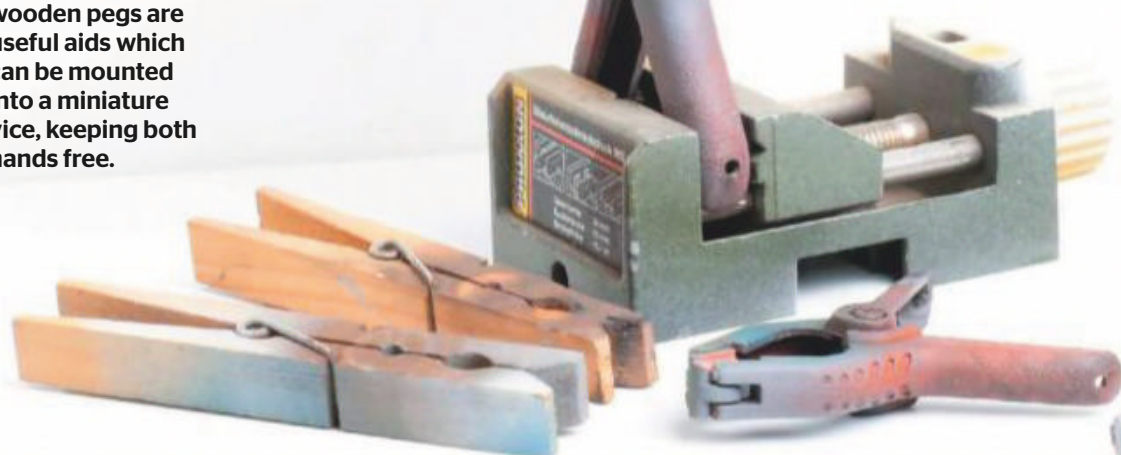
Some means of holding the model is important, allowing the airbrush to travel around the object unhindered.

Miniature turntables and clamps are ideal, with various products available. Tamiya's set is particularly useful, consisting of a pair of rotating tables with a variety of secure clamping options.

Tamiya's rotating clamp – part of a twin-pack – is especially suited to mounting bodysells, which can be rotated easily.



Spring clamps and wooden pegs are useful aids which can be mounted into a miniature vice, keeping both hands free.



SCRAP MODELS

Hone your airbrushing skills without fear by practising on scrap or cheap models. Spare bodysells are particularly useful, while Dapol's range of unpowered plastic locomotive kits (formerly Airfix/Kitmaster) provide another cheap option.

Ensure that the model is clean and dry. A primed surface is preferable to begin with, rather than bare plastic, although a model's factory finish can act as a suitable undercoat for practice purposes. Aerosol primers offer a convenient option, but beware of applying these over enamel or acrylic finishes, as the underlying paint may blister.

Practice models can be painted over and over again, alternating a coat of neutral grey in between colour coats, which itself provides an opportunity for practising on.



Skills Station

STEP
BY
STEP

CREATE AN EVEN FINISH



1

With the model securely mounted and the airbrush loaded with correctly thinned paint (MR260), set the air pressure to 15psi and begin misting the colour into the various recesses. Work about 1-2in from the surface.



2

Be patient, working your way around the firebox, cab and boiler. Keep the flow of paint to a minimum. Steam locomotive bodysells are excellent practice subjects, as the intricate profile presents an interesting challenge.



3

Keep the airbrush moving whenever the paint is flowing, rotating the model to allow the tool to 'attack' the surface from all angles. It may be necessary to approach the model from beneath to reach the lower edges of the boiler.



4

Having worked your way around the whole bodysell, repeat the process, again using a fine mist of paint. The colour will begin to increase in opacity, but don't be tempted to rush things - maintain a methodical approach.



5

Repeat the process until the treated areas appear about 60-70% opaque. Now, we can move the airbrush slightly further away (3-4in) and increase the paint flow a little, moving the airbrush in broad side-to-side sweeps.



6

Always start and end each stroke away from the model, or deeper patches of paint will appear where the airbrush has dwelt. Intersperse horizontal and vertical strokes and rotate the model to ensure even coverage on all surfaces.



7

Remember to move the airbrush smoothly while the paint is being sprayed, rotating the model on the turntable and varying the 'angle of attack'. Ideally, we want the paint to build up evenly across the whole model.



8

As soon as the paint begins to appear 'wet' on the surface, pause for a few moments to allow it to dry before continuing. Matt paints are recommended as it's easier to tell if you can continue when the surface becomes dull.



9

As the sheen dulls, any areas that lack opacity will be revealed, so we can start with the targeted work again, if necessary, before continuing with the overall coats. Regulate the paint flow carefully to keep full control over the finish.



10

This is what we're aiming for: a smooth, consistent finish across all areas. At this stage, we can allow the model to dry overnight before studying it under a light to ensure that the finish is acceptable. If not, more coats can be applied.



11

The same process applies to any 3D object, the initial targeted base layers ensuring that colour is consistent across the whole surface. General sweeps alone will not allow the paint to settle into these recesses without clogging the fine detail.



12

Some colours will take longer to reach full opacity, especially lighter shades such as blue, yellow and red. Darker colours, such as black, often take much less time and effort, as the pigment has a greater density.

Join Skills Station at www.model-rail.co.uk/skills-station

**STEP
BY
STEP**

MASKING



1

When multiple colour elements are required, ensure that the previous layer of paint is completely dry before applying any form of masking. When several strips of tape are involved, seal the joints with masking fluid.



2

When applying the next colour, avoid directing the airbrush against the edge of the tape, lest paint be forced under the masking. When dry, remove the tape gently - this reduces the risk of disturbing the finish.



3

Masking awkward shapes can be time-consuming, but it's not necessary to cover the entire model, just those areas at risk of 'over-spray'. Once again, keep the paint flow to a minimum and build up the colour gradually.



4

Airbrushing allows the use of simple stencil masks, cut from card and held over the model, either with tape or by hand. Direct the spray from the airbrush carefully to reduce the risk of the paint working under the mask.



5

Card stencils are useful when a precise demarcation of colours or shades isn't a priority, especially if the model is destined for a weathered finish, which will obscure any minor imperfections.



A patient, methodical approach to an airbrushed finish allows us to harness the full potential of the tool and create flawless results.

TROUBLESHOOTING

Don't worry if things don't go to plan, as we learn best from making mistakes. What's important is to identify why something went wrong, so that we can avoid it happening again. If something does go awry, simply let the paint dry fully before rubbing the model down with fine abrasives and starting again.



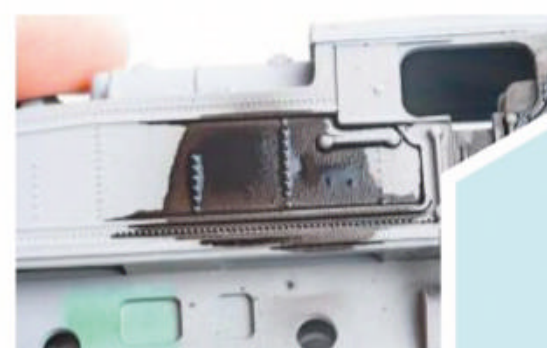
Without the initial targeted work this often happens, as the paint struggles to settle around raised detail and into the recesses. This may only become apparent once the paint has dried.



If the paint finish dries to an 'orange peel' texture the airbrush was working too far from the surface and the paint dried before it landed. It may also mean that the air pressure was set too high.



Does the paint spatter from the airbrush? If so, the paint may be too thick (see MR260) or the air pressure too low. Alternatively, there may be a small blockage in your airbrush (see MR261).



If the paint puddles or runs off the surface, then it's either too thin or too much is being applied too soon. Keep the airbrush moving and maintain a fine mist at all times. Also, try lowering the air pressure slightly.

WHAT NEXT?

In the final instalment of this module, we look at how the airbrush can be harnessed to create realistic weathering effects.

Show us what you've learnt on our Facebook group - <https://bit.ly/2TEmHKA>

MASTERCLASS

Looking at locomotives in detail

Dock shunters

Richard Foster presents a guide to the myriad hardy little locomotives that kept imports and exports flowing through Britain's ports and fed the heart of an empire.

The docks and harbours of the British Isles have always played a crucial role for trade. That importance grew as the railway network developed, and major ports were transformed during the Victorian and Edwardian era as imports and exports grew.

All dock shunting locomotives shared one key feature: a short-coupled wheelbase to cope with the tight curves of dockside track. Designers also gave their dockside

locomotives large outside cylinders to provide plenty of power.

These characteristics might have been inspired by the dockside, but they were eminently suitable for all manner of locations, from marshalling yards to main works. Take Collett's '1366' 0-6-0PTs. They might have been designed for working Weymouth docks, but some class members soon found themselves shunting Swindon Works and, famously, later transferred to the Wenford Bridge branch

where their power and short wheelbase made them ideal replacements for the ageing Beattie 'Well Tanks'.

There's been a glut of miniature dock shunters in recent years. It's with this in mind that *Model Rail* presents a guide to the nation's dock shunters – dock shunter Top Trumps if you will. Plus, we've included some useful tweaks to some of the most recent... **MR**

With a vessel in the background, 'USA' No. 30061 shunts a Western Region parcels van at Southampton Docks on May 17 1953. R.C. RILEY



PLEASE NOTE... Due to space constraints we haven't been able to list the many locomotives absorbed by the GWR from the likes of the Swansea Harbour Trust, Alexandra Docks & Railway Company and Powlesland & Mason.



STEAM RAILWAY ARCHIVE

GWR '1101' 0-4-0T

Designer/built by: Avonside Engine Co./Charles Collett
Built for: Great Western Railway
Total built: 6 (1926)
BR numbers: 1101-1106
Cylinders: 16in by 24in
Driving wheel diameter: 3ft 9½in
Tractive effort: 19,510lb

Last withdrawn: 1960
Survivors: None
Model it:
■ 7mm: Ragstone Models
Web: www.ragstonemodels.co.uk



FRANK DUMBLETON

GWR '1361' 0-6-0ST

Designer/built by: George Jackson Churchward/Harold Holcroft
Built for: GWR
Total built: 5 (1910)
BR numbers: 1361-1365
Cylinders: 16in by 20in
Driving wheel diameter: ... 3ft 8in
Tractive effort: 14,835lb

Last withdrawn: 1962
Survivors: No. 1363, Didcot Railway Centre
Model it: ■ **4mm:** Kernow Model Rail Centre (www.kernowmodelrailcentre.com); Heljan (www.heljan.dk)
■ 7mm: CRT Kits
Web: www.crtkits.co.uk



MALCOLM RANIERI

GWR '1366' 0-6-0PT

Designer/built by: Charles Collett
Built for: Great Western Railway
Total built: 6 (1934)
BR numbers: 1366-71
Cylinders: 16in by 20in
Driving wheel diameter: ... 3ft 8in
Tractive effort: 16,320lb
Last withdrawn: 1964

Survivors: No. 1369, South Devon Railway
Model it:
■ 4mm: Heljan
Web: www.heljan.dk
■ 7mm: CRT Kits
Web: www.crtkits.co.uk



TOBY JENNINGS/SR

SR 'USA' 0-6-0T

Designer/built by: Davenport/Vulcan Ironworks/Porter
Built for: USA Transportation Corps
Total built: 382 (1942-1944)
BR numbers: 30061-30074
Cylinders: 16½in by 24in
Driving wheel diameter: ... 4ft 6in
Tractive effort: 21,600lb
Last withdrawn: 1967

Survivors: Nos. 30064, Bluebell Railway; 30065, Kent & East Sussex Railway; 30070, KESR; 30072, Ribble Steam Railway
Model it:
■ 4mm: Model Rail/Bachmann
Web: www.modelrailoffers.co.uk
■ 7mm: Acme Models
Web: www.acmemodels.co.uk



MICHAEL WILD/SR

SR 'B4' 0-4-0T

Designer/built by: William Adams/Dugald Drummond
Built for: London & South Western Railway (Adams 'B4', Drummond 'K14')
Total built: 25 (1891-1908)
BR numbers: 30081-30103, 30147, 30176
Cylinders: 16in by 22in

Driving wheel diameter: 3ft 9¾in
Tractive effort: 14,650lb
Last withdrawn: 1963
Survivors: No. 30096, Bluebell Railway; No. 30102, Bressingham Steam Museum
Model it:
■ 4mm: Dapol
Web: www.dapol.co.uk



COLOUR RAIL

SR '0458' 0-4-0ST

Designer/built by: Hawthorn Leslie
Built for: Southampton Docks Company
Total built: 2 (1890)
BR numbers: 30458
Cylinders: 12in by 20in
Driving wheel diameter: 3ft (later 3ft 2in)

Tractive effort: 8,160lb (later 7,730lb)
Last withdrawn: 1954
Survivors: None
Model it:
■ 7mm: Ragstone Models
Web: www.ragstonemodels.co.uk



BRIAN MORRISON

LMS '1F' 0-6-0T

Designer/built by: JAF Aspinall
Built for: Lancashire & Yorkshire Railway (Class 24)
Total built: 20 (1897)
BR numbers: 51535-537, 51544, 51546
Cylinders: 17in by 24in
Driving wheel diameter: ... 4ft 0in

Traction effort: 15,285lb
Last withdrawn: 1961
Survivors: None
Model it:
7mm: Lanky Kits
Web: www.lankykits.co.uk



RAIL ONLINE

LMS '0F' 0-4-0ST

Designer/built by: Samuel Johnson
Built for: Midland Railway
Total built: 28 1883-1903
BR numbers: 41509, 41516, 41518, 41523
Cylinders: 13in by 20in (later 15in by 20in)

Driving wheel diameter: ... 3ft 10in
Traction effort: 8,745lb (later 12,475lb)
Last withdrawn: 1958
Survivors: None
Model it: N/A



B. OWEN

LMS '0F' 0-4-0T

Designer/built by: Richard Deeley
Built for: Midland Railway
Total built: 10 (1907-1922)
BR numbers: 41528-41537
Cylinders: 15in by 22in
Driving wheel diameter: 3ft 9¾in
Traction effort: 14,635lb
Last withdrawn: 1964

Survivors: None
Model it:
4mm: Brassmasters
Web: www.brassmasters.co.uk



COLOUR RAIL

LMS '0F' 0-4-0ST

Designer/built by: William Stanier/Kitson/BR
Built for: LMS/BR
Total built: 10 (1932, 1953)
BR numbers: 47000-47009
Cylinders: 15½in by 30in
Driving wheel diameter: . 3ft 10in
Traction effort: 14,205lb

Last withdrawn: 1966
Survivors: None
Model it:
4mm: Judith Edge
Tel: 01226 722309
7mm: Ragstone Models
Web: www.ragstonemodels.co.uk



COLOUR RAIL

LMS '2F' 0-6-0T

Designer/built by: Henry Fowler
Built for: LMS
Total built: 10 (1928)
BR numbers: 47160-47169
Cylinders: 17in by 22in
Driving wheel diameter: ... 3ft 11in
Traction effort: 18,400lb
Last withdrawn: 1964

Survivors: None
Model it:
4mm/7mm: Mercian Models
Web: www.modelrailways.tv



COLIN BARRATT

LMS '0F' 0-4-0ST

Designer/built by: JAF Aspinall
Built for: Lancashire & Yorkshire Railway (Class 21)
Total built: 57 (1891-1910)
BR numbers: 51202-51253
Cylinders: 13in by 18in
Driving wheel diameter: 3ft 0¾in
Traction effort: 11,335lb

Last withdrawn: 1964
Survivors: 51218, Keighley & Worth Valley Railway; 19, Ribble Steam Railway
Model it: ■ 4mm: Hornby
Web: www.hornby.com
7mm: Tower Brass
Web: www.tower-models.com



TREVOR OWEN/COLOUR RAIL

LMS '0F' 0-4-0ST

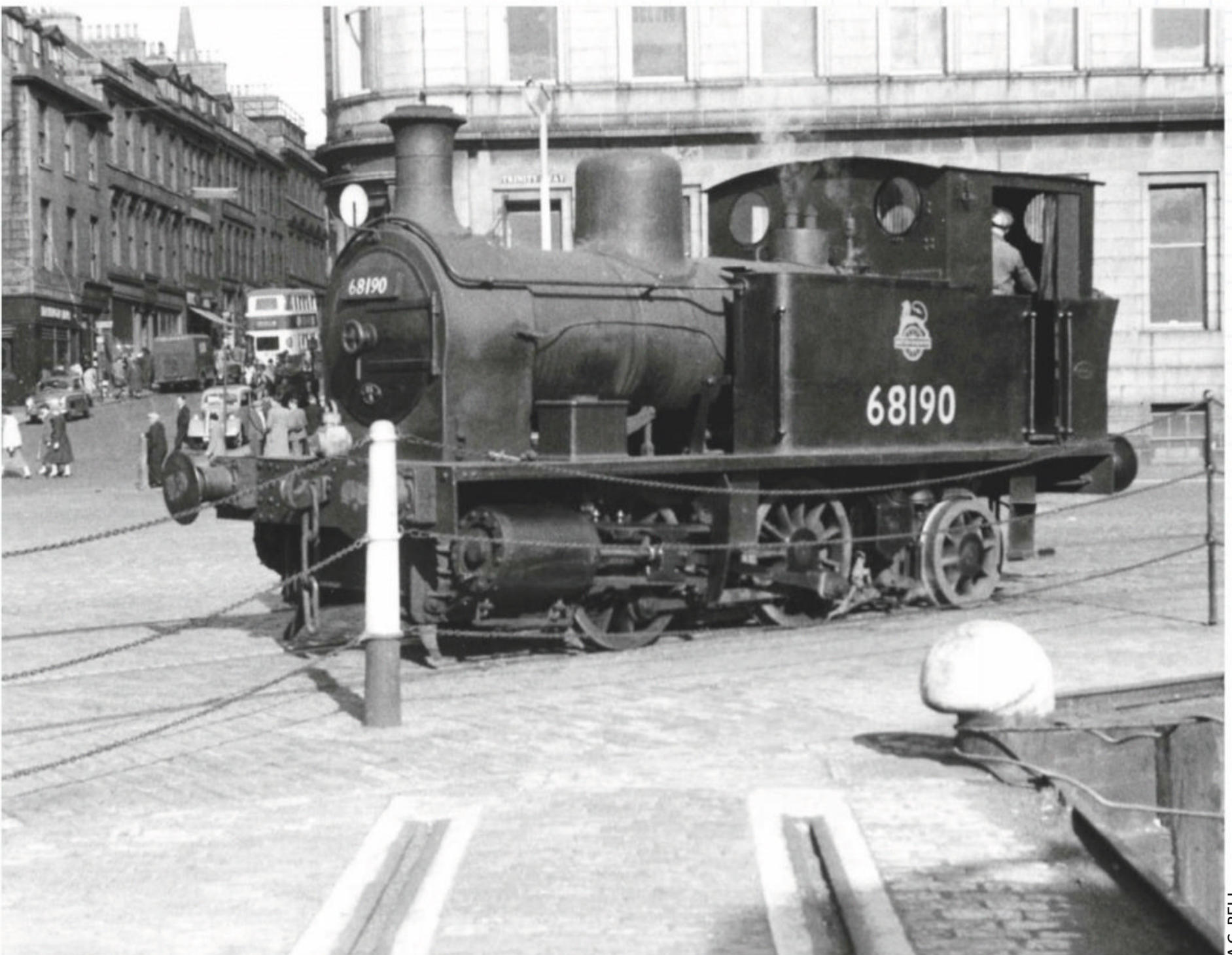
Designer/built by: Dugald Drummond
Built for: Caledonian Railway (Class 264)
Total built: 34 (1885-1908)
BR numbers: 56010-59039
Cylinders: 14in by 20in
Driving wheel diameter: ... 3ft 8in
Tractive effort: 12,115lb
Last withdrawn: 1962
Survivors: None
Model it:
 ■ 4mm: Hornby
Web: www.hornby.com
 ■ 7mm: Slater's
Web: www.slatersplastikard.com



D.L. DOTT/COLOUR RAIL

LMS '2F' 0-6-0T

Designer/built by: J. McIntosh
Built for: Caledonian Railway (Class 498)
Total built: 23 (1911-1921)
BR numbers: 56151-56173
Cylinders: 17in by 22in
Driving wheel diameter: ... 4ft 0in
Tractive effort: 18,015lb
Last withdrawn: 1961
Survivors: None
Model it:
 ■ 4mm: Caley Coaches
Web: www.caley.com
 ■ 7mm: Alba Railway Models
Web: www.albarailwaymodels.co.uk



A.G. BELL

LNER 'Z4/Z5' 0-4-2T

Designer/built by: Manning Wardle
Built for: ... Great North of Scotland Railway (Class X and Y)
Total built: Two of each (1915)
BR numbers: 68190-68193
Cylinders: 13in by 20in ('Z4'), 14in by 20in ('Z5')
Driving wheel diameter: 3ft 6in ('Z4'), 4ft ('Z5')
Tractive effort: 10,945lb ('Z4'), 11,105lb ('Z5')
Last withdrawn: 1960
Survivors: None
Model it: ■ 7mm: Ragstone Models
Web: www.ragstonemodels.co.uk



RAIL ONLINE

LNER 'J63' 0-6-0T

Designer/built by: John Robinson
Built for: Great Central Railway (Class 5A)
Total built: 7 (1906, 1914)
BR numbers: 68204-68209
Cylinders: 13in by 20in
Driving wheel diameter: ... 3ft 6in

Tractive effort: 10,260lb
Last withdrawn: 1957
Survivors: None
Model it:
■ 4mm: Judith Edge
Tel: 01226 722309



MIKE MORANT COLLECTION

LNER 'J70' 0-6-0T

Designer/built by: James Holden
Built for: Great Eastern Railway (Class C53)
Total built: 12 (1903-1921)
BR numbers: 68216-68226
Cylinders: 12in by 15in
Driving wheel diameter: 3ft 1in

Tractive effort: 8,930lb
Last withdrawn: 1955
Survivors: None
Model it:
■ 4mm: Model Rail/Rapido
Web: www.modelrailoffers.co.uk



P.J. HUGHES/COLOUR RAIL

LNER 'J88' 0-6-0T

Designer: William Reid
Built for: North British Railway (Class F)
Total built: 35 (1904-1919)
BR numbers: 68320-68354
Cylinders: 15in by 22in
Driving wheel diameter: 3ft 9in

Tractive effort: 12,155lb
Last withdrawn: 1962
Survivors: None
Model it: N/A



TOBY JENNINGS/SR

LNER 'Y9' 0-4-0ST

Designer/built by: . Neilson & Co./ Dugald Drummond
Built for: North British Railway (Class G)
Total built: 38 (1882-1899)
BR numbers: 68093-68124
Cylinders: 14in by 20in

Driving wheel diameter: ... 3ft 8in
Tractive effort: 9,845lb
Last withdrawn: 1962
Survivors: No. 68095, Bo'ness & Kinneil Railway
Model it:
■ 4mm: Modify Hornby's CR 'Pug'

Diesel dock shunters



K.C.H. FAIREY/COLOUR RAIL

LNER 'Y9' 0-4-0ST BR 'D1/1' 0-4-0DM

Builder: Hunslet Engine Co.
Total built: 3 (1954/55)
BR numbers: D2950-D2952
Engine: Gardner 6L3
Driving wheel diameter: ... 3ft 4in

Tractive effort: 10,800lb
Last withdrawn: 1968
Survivors: None
Model it: N/A



COLOUR RAIL

BR 'D2/7' 0-6-0DM

Builder: Hudswell Clarke
Total built: 10 (1955-1956)
BR numbers: D2500-D2509
Engine: Gardner 8L3
Driving wheel diameter: ... 3ft 6in

Tractive effort: 16,100lb
Last withdrawn: 1967
Survivors: None
Model it: ■ 4mm: Mercian Models
Web: www.modelrailways.tv



COLOUR RAIL

BR 'D2/12' 0-6-0DM

Builder: Hudswell Clarke
Total built: 10 (1961)
BR numbers: D2510-2519
Engine: Gardner 8L3
Driving wheel diameter: ... 3ft 6in
Tractive effort: 16,100lb
Last withdrawn: 1967
Survivors: D2511, Keighley & Worth Valley railway
Model it:
■ 7mm: Mercian Models
Web: www.modelrailways.tv



COLOUR RAIL

NORTH BRITISH 0-4-0DH

Builder: North British
Total built: 3 (1953-1954)
BR numbers: D2700-D2702
Engine: Paxman 6RPH
Driving wheel diameter: ... 3ft 6in
Tractive effort: 21,500lb
Last withdrawn: 1968
Survivors: None
Model it:
■ 4mm: Judith Edge
Tel: 01226 722309



COLOUR RAIL

BR 'DY5' 0-4-0DM

Builder: Ruston & Hornsby
Total built: 2 (1956)
BR numbers: D2957/D2958
Engine: Ruston 6VPHL
Driving wheel diameter: 3ft 2½in
Tractive effort: 14,350lb
Last withdrawn: 1968
Survivors: None
Model it:
■ 4mm: Judith Edge
Tel: 01226 722309



COLOUR RAIL

BR CLASS 01 0-4-0DM

Builder: Andrew Barclay
Total built: 5 (1956-1958)
BR numbers: D2953-D2956
Engine: Gardner 6L3
Driving wheel diameter: 3ft 2in
Tractive effort: 12,750lb
Last withdrawn: 1980
Survivors: D2953, Peak Rail; D2956, East Lancashire Railway
Model it:
■ 4mm/7mm: Judith Edge
Tel: 01226 722309



COLOUR RAIL

BR CLASS 02 0-4-0DM

Builder: Yorkshire Engine Company
Total built: 20 (1960-1961)
BR numbers: 2850-D2869/
Engine: Rolls-Royce C6
Driving wheel diameter: ... 3ft 6in
Tractive effort: 15,000lb
Last withdrawn: 1975
Survivors: D2853, Barrow Hill;
Model it:
■ 2mm: Worsley Works
Web: www.worsleyworks.co.uk



PAUL SENIOR

BR CLASS 07 0-6-0DE

Builder: Ruston & Hornsby
Total built: 14
BR numbers: D2985-D2998/
Engine: Paxman 6RPHL
Driving wheel diameter: 3ft 6in
Tractive effort: 28,240lb
Last withdrawn: 1977
Survivors: 07001, Peak Rail; 07005,
Model it:
■ 2mm: Ultima Models
Web: www.ultima-models.co.uk
■ 4mm: Heljan
Web: www.heljan.dk



HOW TO TRANSFORM DOCK TANKS 1: '1366'

George Dent enhances Heljan's GWR '1366' 0-6-0PT.

Heljan's diminutive GWR '1366' is a little gem and its outside motion and handsome profile gives it bags of character. The model does have a few shortcomings, however, but this simple upgrade project allowed me to address these cosmetic issues.

The incorrect GWR typeface is the most striking flaw but, after searching through prototype images from the 1950s, I discovered that No. 1370 still carried faint

00 GAUGE MODEL Heljan GWR '1366' 0-6-0PT ♦ Price (rrp) £159.95

AVAILABILITY Heljan stockists or www.heljan.dk

12 hrs



traces of the GWR livery while working at Weymouth Quay.

Duly inspired, I set about trying to recreate this aspect by partially removing the GWR lettering, before applying a multi-layered weathering job. Another task that I set myself was to improve the look of the outside motion

and connecting rods, which were rendered in an opaque black finish. Various shades of metallic paints created a more authentic look, aided further with weathering tones and grease effect paints. Then I added a few cosmetic touches to create a more convincing appearance of a workaday dock shunter.



STEP BY STEP



1

Heljan's '1366' is a handsome locomotive that runs beautifully. However, this GWR-liveried version sports inaccurate legends, and the opaque black motion and connecting rods would benefit from a metallic finish.



2

The buffers are also ripe for improvement, being overly long and chunky. Replacement is an option, but I retained the originals after improving the head profile. The retaining lugs must be cut to free the heads from the shanks.



3

The springs were discarded and the heads mounted into a pin vice to allow them to be dressed with needle files and abrasives – on the front and rear faces – until a superior profile was achieved.



4

The refined buffers were then secured back into the shanks with a blob of cyano glue, applied with a cocktail stick. Check that the heads are protruding at a uniform distance from the shanks and aligned correctly.

What you will need

SHOPPING LIST

- ◆ Tamiya paints & AK Interactive paints **Availability:** Scale Model Shop Tel: 01422 405040 **Web:** www.scalemodelshop.co.uk
- ◆ LifeColor paints & pigments, airbrushes and equipment **Availability:** The Airbrush Company Tel: 01903 767800 **Web:** www.airbrushes.com

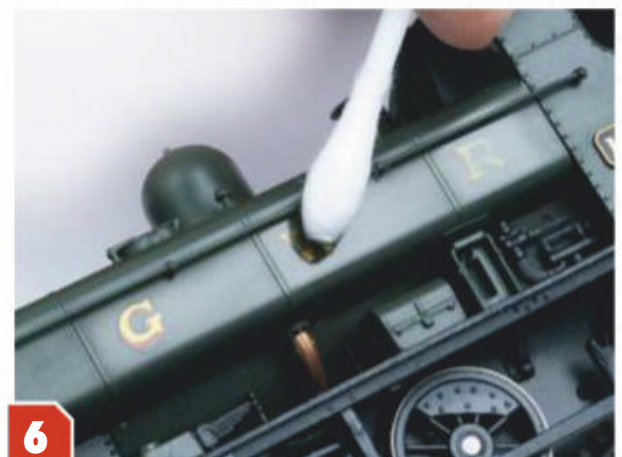
TOOLS

- ◆ Knife
- ◆ Pin vice
- ◆ Needle files
- ◆ Abrasives
- ◆ Tweezers
- ◆ Cotton buds
- ◆ Cocktail sticks
- ◆ Paintbrushes
- ◆ Airbrush & equipment (optional)



5

T-Cut automotive finish restorer is the perfect medium for removing factory-printed characters. Shake the bottle vigorously, dipping cotton buds into the fluid deposited within the lid.



6

T-Cut features tiny abrasive particles that will slowly soften – and eventually remove – the unwanted characters. Work gently with a circular motion to avoid damaging the underlying paintwork.



7

Once the letters have been distressed sufficiently, the surfaces can be carefully buffed with dry cotton swabs to remove any remaining traces of the T-Cut. This also imparts a pleasing polished effect.



8

After an overnight rest to allow solvent residues to evaporate, weathering can begin with a mix of red-brown and dark grey paints, brushed over a small area. Work the paint into and around all of the detail relief.



9

Most of the paint can then be removed with cotton swabs, using vertical strokes wherever possible. Leave as much or as little of the 'dirt' behind as preferred. Repeat the process around the entire locomotive.



10

The motion and connecting rods were treated with a couple of shades of AK Interactive True Metal paints: Steel and Gunmetal. Decant a small blob of each colour onto a scrap of card and apply sparingly with a small brush.



11

Heljan's bell had the prominent mould seam filed away before being treated with AK Interactive's True Metal Brass shade. After 24 hours, the metallic paint can be buffed to a realistic sheen.



12

General weathering followed, via an airbrush, with a variety of browns and dark greys misted strategically. This refines the appearance of the earlier weathering stage as well as toning down the motion's metallic finish.



13

To restore an element of shine to the dull, dusty nature of the matt weathering paints, clear gloss was airbrushed gently into key areas, especially on the tank and cab sides.



14

The solid coal load is held simply with double-sided tape, making it easy to remove and replace with real coal chippings. Ballast Bond liquid adhesive penetrates the coal readily and will dry within a few hours.





15

The footplate crew were inserted into the cab, fixed with small blobs of Gorilla's new formula of contact adhesive. This quickly turns tacky, allowing for positive location of the figures. Leave overnight to harden.



16

Extra variation, in terms of tone and texture, was added by means of dry pigments. Applied with a soft, flat brush, shades were chosen to suggest deposits of ash, cinders, rust and brake dust.



17

With the blunted end of a cocktail stick, create small scuffs in the dry pigment deposits and weathering paints to mimic footprints and burnishing from rail staff, especially on the running plates and cab steps.



18

LifeColor's Grease Effects paints add the finishing touch to the improved motion and connecting rods. A combination of Grease Effect and Dirty Grease shades work to create the look of fresh and grimy oil deposits.



19

A moulded set of fire irons is supplied with the Heljan model, but I fabricated a set with a finer profile, using brass wire and strip. They were painted and weathered before fixing to the model's brackets.



20

A shunter's pole can be crafted from a cocktail stick. Start by shaping a length of 0.33mm brass handrail wire with miniature round-nose pliers, before fixing into a hole drilled into the end of the stick.



21

Whittle the wooden shaft with files and abrasive pads until the desired profile is achieved. As a guide, I kept a 'OO' gauge figure to hand, cutting the pole to a scale 6ft in length.



22

After adding an array of head and tail lamp lamps, as befits a working shunting locomotive, a few spare tail lights were mounted on the running plate, along with the painted and weathered shunter's pole.



HOW TO

TRANSFORM DOCK TANKS 2: 'J70'

George Dent and **Chris Leigh** offers simple tweaks to further gild the 'J70' lily.

Looking at old photographs of the 'J70s', the cab interiors appeared cramped even when they were empty. However, adding a set of scale figures really brought home how little room there was on the real things.

Hardy's Hobbies has designed a choice of footplate figures specifically to suit the *Model Rail* 'J70' model, sporting a variety of appropriate poses. With leaning postures and outstretched arms, each figure stands nicely within the cab confines, aligning with cab controls and/or peering around the cab pillars.

There's even a fireman crouching uncomfortably with a short-handled shovel to reach into the firebox. Created using 3D

00 GAUGE **MODEL Model Rail/Rapido**
'J70' 0-6-0T ♦ Price £127.50 **10 mins**

AVAILABILITY Model Rail Offers
Tel: 01209 714099
Web: www.modelrailoffers.co.uk

printed scans of real humans, they're scaled accurately and are clad in realistic overalls and caps.

Available in painted or unpainted form, they're a perfect accompaniment to a 'J70' or other similar motive power. And they're available in other scales too!

The 'J70s' were like any other class, and individual locomotives received minor modifications undertaken by shed staff,

rather than a major alteration that was rolled out across the whole fleet during works overhauls.

Towards the end of steam on the Wisbech & Upwell, several photographs show No. 68225 at Wisbech shed and operating on the tramway without its side skirts. This would have been late in its career and presumably its skirts had been damaged, or possibly removed and not replaced during its time at Colchester prior to September 1951. 'J70s' working the various docks lines were not required to have the skirts fitted and it seems that the shedmaster at Wisbech was willing to ignore this aspect of the tramway regulations late in the career of the steam locomotives.



Do more, see more

Want to learn more about figure painting? You can download some figure painting techniques at www.model-rail.co.uk/figure-painting

No. 68222 was the the last 'J70' to work on the Wisbech & Upwell Tramway and must have been drafted in from Colchester or Ipswich to cover for the failure of both diesel shunters 11101/2 in 1953. It gained notoriety when it ran out of water at Upwell and the crew found that there was no longer a locomotive water supply there. No doubt forewarned about the return of steam, the Reverends Awdry and Boston were on hand. Awdry dashed home to fetch his hosepipe and saved the day! By this time, No. 68222 had received three replacement sliding windows which appear white in photographs as the frames were never painted.

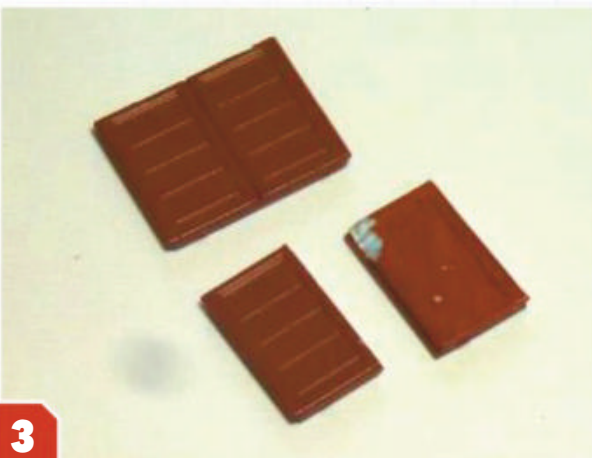
For us modellers, it provides the perfect

STEP BY STEP



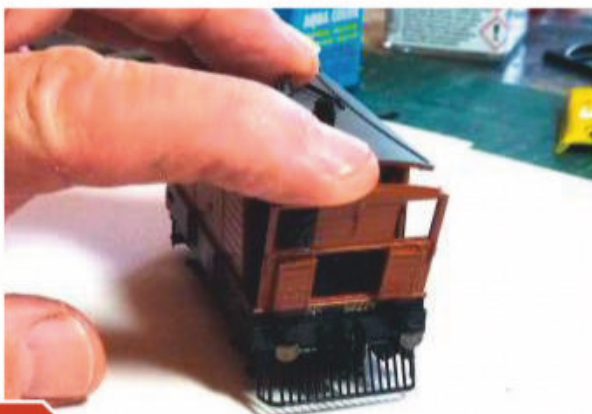
1

These figures have been designed by Hardy's Hobbies specifically to suit the 'J70'. You can paint them with acrylics or enamels - or buy them ready-painted.



3

The closed door moulding is without the diagonal internal braces. It can be cut down the middle and the two parts fitted in the open position. Trim a tiny rebate from the outer top corners to clear the securing hook detail.



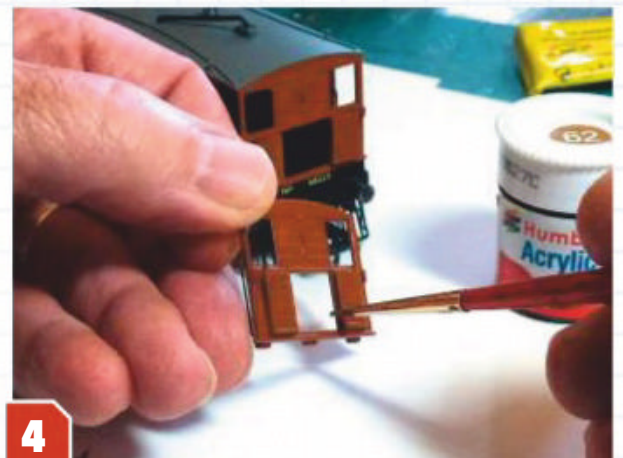
5

I found it easier to work on the ends of the model with the cab fronts removed. They are easy to refit if you insert the two tabs on the lower edge first and then press the top back under the lip of the roof until it engages.



2

The crew's posture allows them to fit precisely within the confines of the cabs. Drop a tiny amount of cyano on the base and position with tweezers.



4

The open doors can be secured in place by running a brush of liquid polystyrene cement down the edge. Cutting the door may have exposed the grey plastic. Humbrol No. 62 is a pretty good match for touching up the bauxite.



6

I painted the etched frames white before glazing and fitting them in the way previously described. No. 68222 also retained its GER district allocation plate '5' through to withdrawal - it's easy to fix with a drop of cyano.

excuse to have an unskirted 'J70' with full valve gear on a W&U layout. I could not resist that opportunity and in MR-203, *Model Rail* provides a 'J70' in just the right state and livery. It also has the coupling safety chains which the prototype retained throughout its career, the only 'J70' to carry them in BR days. There is, however, a little tweak that you can do to the end doors if you plan to model them open. The doors on No. 68225 did not have the diagonal brace which is depicted on the open door mouldings supplied with the model. However, the closed door moulding is without these braces and it would be a simple matter to cut it and adapt it to be in the open position.

What you will need

SHOPPING LIST

- ◆ Footplate crew figures for 'J70', £3.00 each (£5.00 painted)
- Availability:** Hardy's Hobbies
- Web:** www.hardyshobbies.co.uk

TOOLS

- ◆ Tweezers
- ◆ Cocktail stick
- ◆ Glue
- ◆ Paintbrushes



ADB975978

Built as: Restaurant Unclassified E1025, 1961

What was it? Modified with EMU couplings as part of EMU Barrier Set T5.

Fate? Now based at Arlington Fleet Services, Eastleigh, in AFS green and named *Perpetiel*

REMARKABLE Mk 1s

Want to bring a little variety to your Mk 1 fleet? **Paul Chancellor** presents a selection of intriguing and interesting Mk 1s from the Colour Rail archive to inspire your next Mk 1 coach project.

Photography: **Colour Rail**



RDB975428, RAILWAY TECHNICAL CENTRE 'LAB 10'

Built as: Brake Second Open E9236, 1956

What was it? Fitted with generator, nose window and B4 bogies for 100mph running with Class 46 *Ixion*. Part of POP Train used in the development of APT.

Fate? Scrapped 2003



DB977351

Built as: First Open W3089, 1959

What was it? Brake force runner - additional coaches coupled to a train to provide more braking force or to lengthen trains to activate track circuits. Painted in Old Oak Common's track test train black/gold/blue livery.

Fate? Now stored at the Avon Valley Railway

**DB975641**

Built as: Brake Second Open E9279, 1956

What was it? BR created the SKATE train, using two Plasser & Theurer machines – 88200 and 88201 – to load bogie flat wagons fitted with standard waste disposal skips. 975641 was coupled to 88200 and 88201's runner wagon, ZSA DB924860. This was a 'Bogie Bolster E' modified with twin axles.

Fate? Scrapped

**DB975325**

Built as: Brake Gangway M81448, 1958

What was it? This unique generator van was created in the late 1970s for providing power for locomotive-hauled Mk 3 sets.

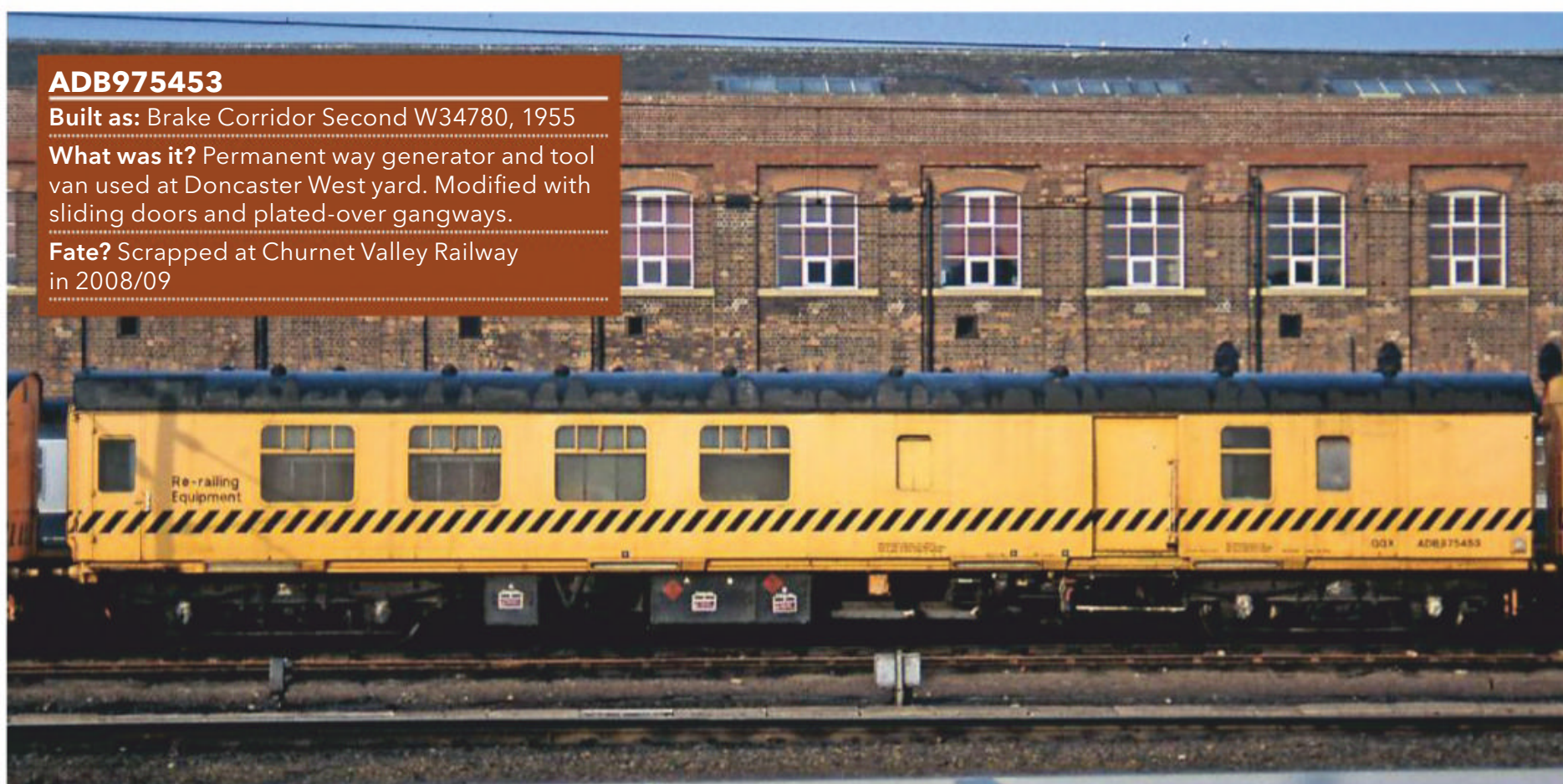
Fate? Now part of Riviera Trains' main line-registered fleet

**DB975280**

Built as: Brake Corridor Composite S21263, 1963

What was it? Dormitory and support coach for Network Rail's structure gauging train.

Fate? Stored at Nemesis Rail's Burton depot

**ADB975453**

Built as: Brake Corridor Second W34780, 1955

What was it? Permanent way generator and tool van used at Doncaster West yard. Modified with sliding doors and plated-over gangways.

Fate? Scrapped at Churnet Valley Railway in 2008/09

LAYOUT BOSUN'S WHARF

VITAL STATS

Layout:

Bosun's Wharf

Size: 16ft by 2ft

Gauge: 'OO'



Quayside attraction

The theme of this 'everywhere and nowhere' dockside layout was an obvious port of call for retired mariner **Bob Stevens** and his friend **Ian Corps**.

Words: **Chris Gadsby** Photography: **Chris Nevard** Artwork: **Andrew Mackintosh**





If you look at a plan of any great port around Britain, Europe or the world for that matter, away from the hustle and bustle of the main terminal with its ocean liners and cargo ships, there is still a lot going on.

Take Southampton, for example. The huge ships take centre stage and the smaller ferries to the Isle of Wight and the industrial dock are the bridesmaids, rather than the bride – still important but not the centre of attention. Small wharfs and quays are the homes of the humble coasters and ships of the home trade. This is the scenario in which Ian Corps and Bob Stevens' 'OO' gauge layout 'Bosun's Wharf' has been set. Despite living in Southampton, the modelling duo have eschewed the obvious and created an 'everywhere and nowhere' wharf instead.

"We are members of the Southampton Model Railway Society and we live on the south coast of England, so we decided that our layout should depict that part of the country. However, it has no features that tie it to that location – it could represent any wharf just as well," explains Ian. "Both Bob and I had existing layouts and we were looking for a new challenge. Bob is a retired mariner with a keen interest in shipping and I was keen to build an industrial layout, so when we saw a track plan for a dockside layout we were hooked."

Sourcing the baseboards was easy, as the society had a number of surplus ones that the pair were able to use. This also made deciding on the layout's size easy, as the boards totalled 16ft by 2ft.

"We had the boards and a rough track plan but no other ideas, and then we ran into a problem..."

"Bob went to New Zealand! I was left to make a start and drew the track plan onto a roll of wallpaper. Then I had to send a digital version of that, via e-mail, to Bob so he could agree to it. This meant that on his return we could start in earnest." ➤

JARGON BUSTER

'Bosun's Wharf' is operated with DC and Ian and Bob use Blue Railways, a system which allows you to operate your layout from either a smartphone, tablet or a wireless controller, giving them the freedom to move about the layout unhindered.

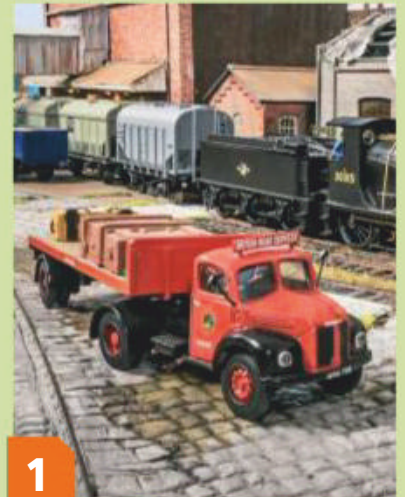
Blue Railways currently only operates with DC but offers single and dual track control for those who prefer to turn dials rather than use their smart device. More information can be found online at www.bluerailways.co.uk and prices start from £39.50.



3 Ian is smitten with static grass and there is quite a bit of it around the layout. However, if you are going to do the same on your dock layout, be careful that none of it ends up on the rails as this can bring a short wheelbase locomotive to a halt.

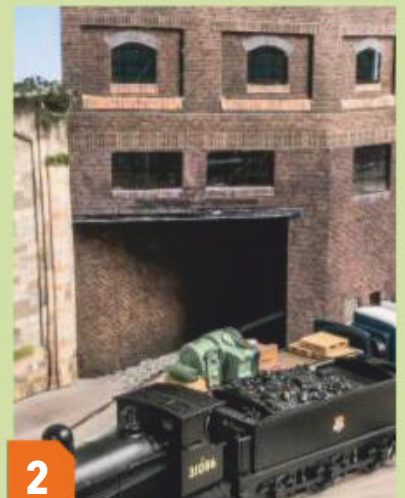
“The ships have also been created from cardboard, again from Scalescenes, and they can be removed when the layout needs to be moved”

3 things we like



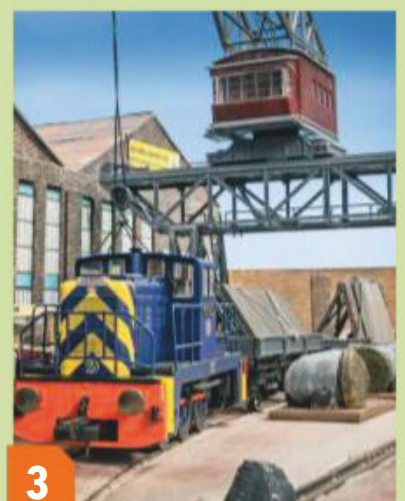
1

The concrete hard-standing is from Scalescenes and the cobbles are made from DAS clay.



2

The fiddleyard transition is achieved with the track disappearing under a building.



3

The cranes are both 'HO' kits, from Faller and Walthers.

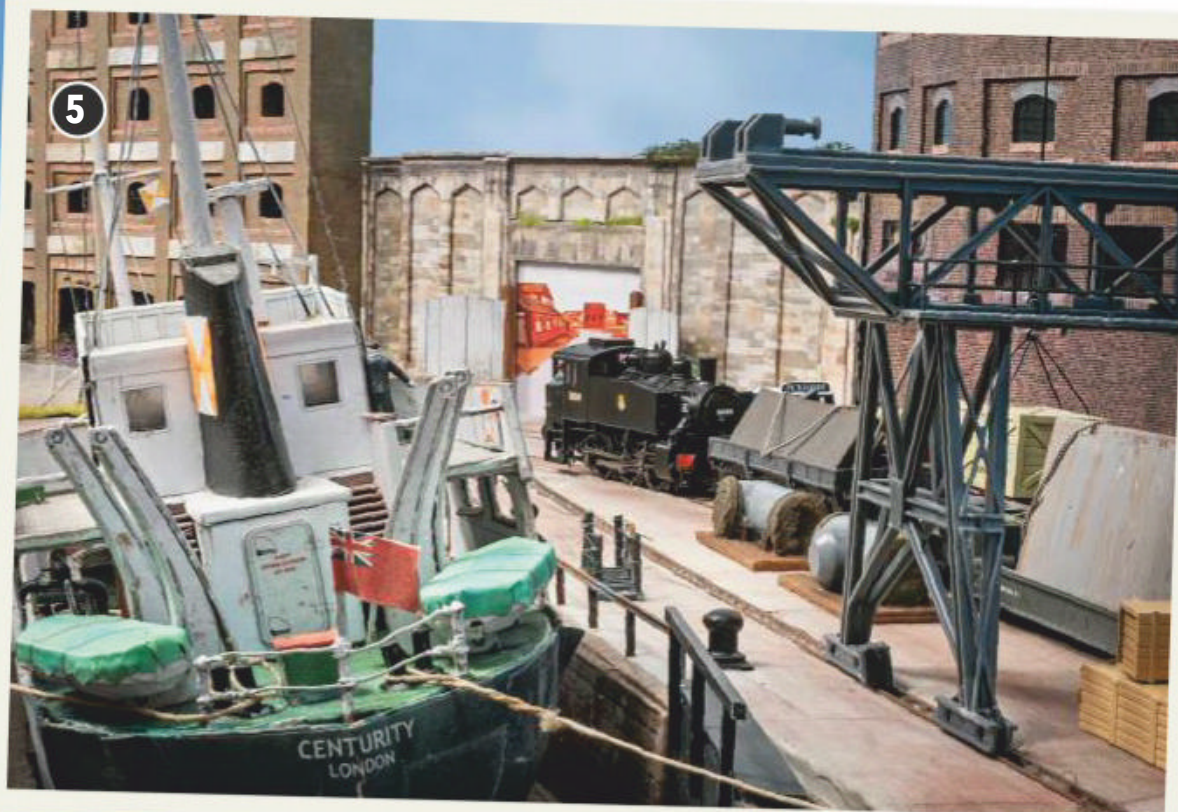
What makes this layout great?

We often talk about layouts being effective at showing you where they are located with regional colour schemes and particular models, but 'Bosun's Wharf' is just as believable without a location, as it would look at home at any dock in the UK.

“The dry dock is an extension on the original baseboard – it was Bob’s idea to build at an angle in order to accommodate a larger ship”

4





Refitted freighter

Bob explains how he made modifications to the Scalescenes ship: "The first ship was made as per the instructions. Then I started to think about how I could make them look different. As the hull is made up of a bow and a stern section, what would the hull look like by adding a 4in section in the middle? I made new hull sides and everything looked okay. Add a centre castle with goalpost mast and derricks and you have a different ship.

"As our layout had a tank farm, it needed a tanker, so, as I'd converted a ship by adding a 4in section, I did the same, but this time took a 4in section out, filled in the holds, cut down the sides and added pipework and hand rails. I couldn't resist some modification to the bridge and aft section as well. I find the Scalescenes models are fantastic and lend themselves to being customised."

LIGHT BUILD

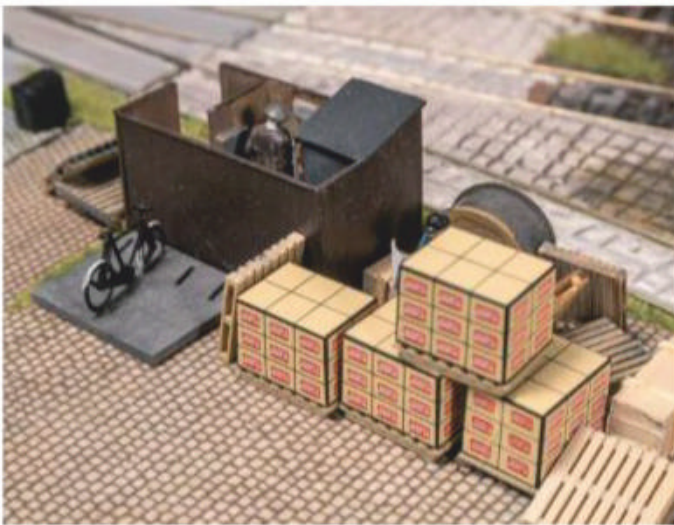
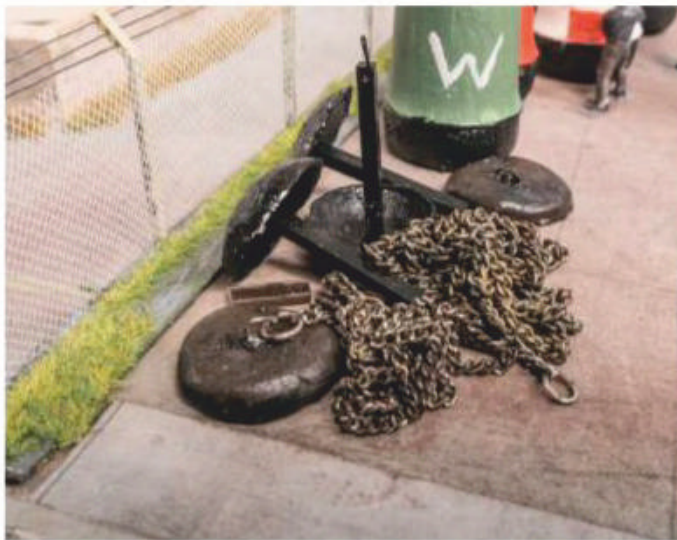
Most of the buildings at 'Bosun's Wharf' are Scalescenes kits, which has two advantages. Firstly, they are very light, which makes picking the layout up and transporting it easy. Secondly, once the kit has been downloaded, it can be printed as many times as the owner likes, so any mistakes or alterations can simply be redone at the cost of some ink.

"I'd started making some of the buildings before Bob came back from his travels and we began laying the Peco Code 75 track on his return. Almost immediately we hit problems. Originally our points were operated with SEEP motors that were also going spare at the society, but they were old, and before long became very unreliable. The MERG Servo motor system was the next port of call for a trial. We got on really well with it, as not only does it work as a point motor but you can also adjust the speed at which it moves, making it much kinder on the point blades. Now the points and some of the accessories, including a yard crane, are powered through the system."

SPREAD THE LOAD

There wasn't enough space in the club rooms to erect 'Bosun's Wharf' on a prolonged basis, so Ian and Bob each took two boards home at a time, swapping where ➤

THINGS YOU MAY HAVE MISSED





6 A wharf layout has frequent visitors of short-wheelbase wagons and tanks. Ian and Bob have filled 'Bosun's Wharf' with prototypical stock, including some of *Model Rail's* exclusive USA 0-6-OTs.

necessary. The work was split between Ian and Bob, with Ian taking charge of the electrics and Bob dealing with everything maritime.

"The dry dock is an extension on the original baseboard and it was Bob's idea to build it at an angle in order to accommodate a larger ship. Being a former mariner, he was able to tie the ship to the moorings using lines in the correct position, avoiding any potential 'rivet counting' criticisms. The jetty has been constructed from a hardwood which Bob bought back from New Zealand; the weeds are made from a shredded dark green washing-up sponge."

ON A ROLL

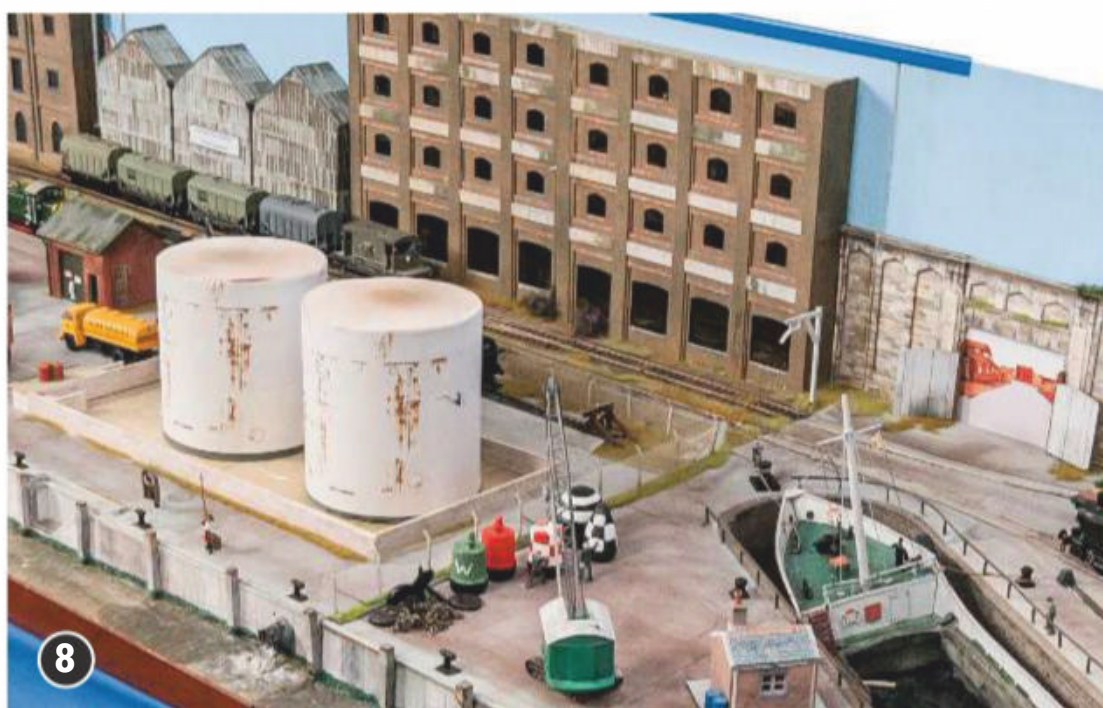
Many of the layouts showcased in *Model Rail* recently have featured water, and they have used a variety of techniques. On 'Bosun's Wharf', Bob has used something quite unusual...

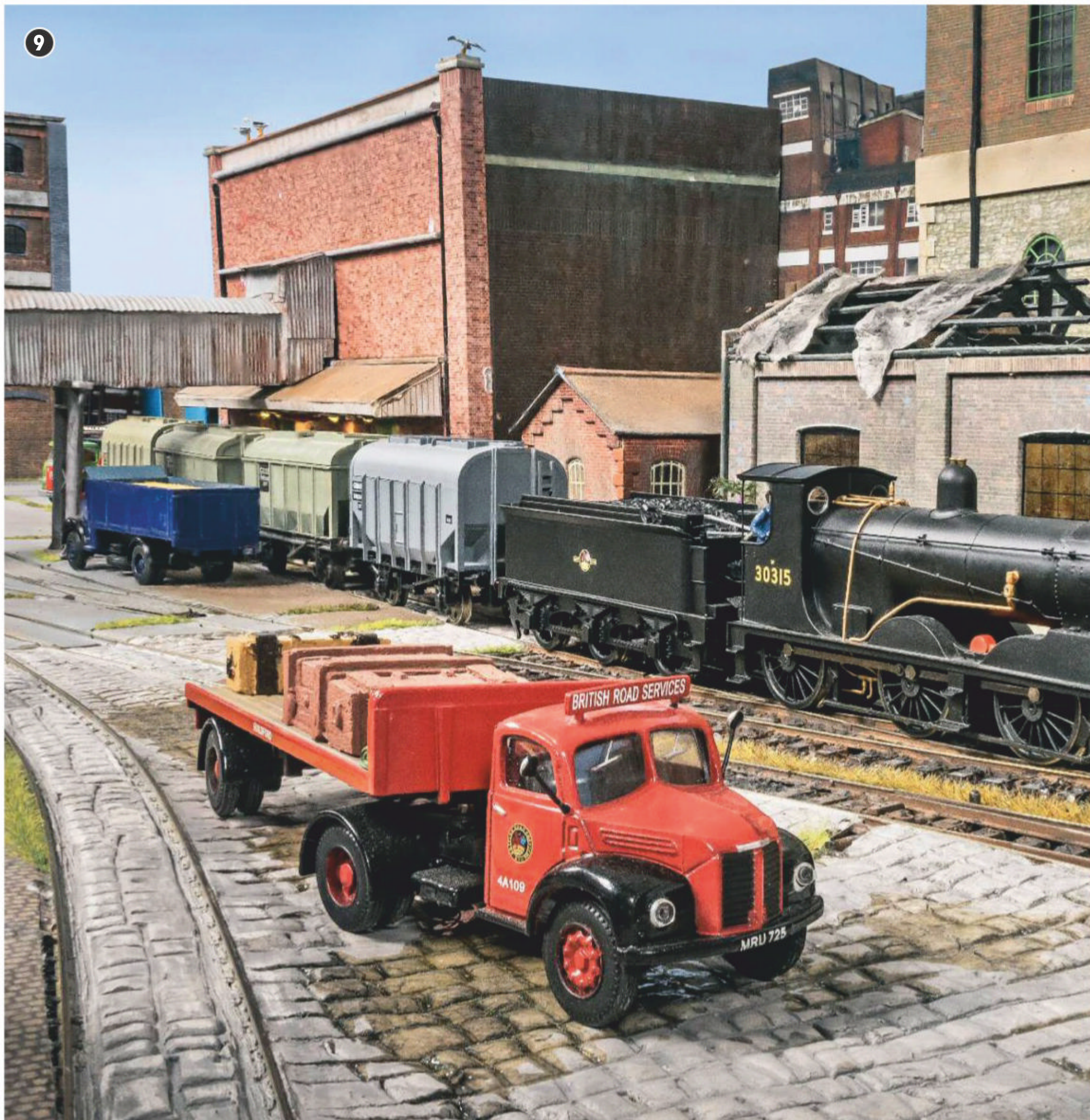
"Toilet roll. Well, toilet roll and a lot of glue. First of all, PVA was spread over the baseboard to provide a surface for the roll to stick to, and then the paper was stuck to the top. Naturally, it has creases and bumps in it when you try to lay it flat, so these depict the waves quite nicely. Diluted PVA was then put over the top of the paper to set it hard before murky paint and a couple of coats of varnish provided the finishing touches. I'd love to be able to say that it was an original idea, but we copied it from a video on YouTube!"

In keeping with the theme of lightness, the ships have also been created from cardboard, again from Scalescenes, and they can be removed when the layout needs to be moved. Bob has modified them (see panel, p77) and has added extra features such as a working radar dish powered by a small electric motor underneath the baseboard.

THINK TANK

Aside from the large ships, two huge oil tanks in the centre of the layout provide a focal point. These are ➤





also from Scalescenes and have been located accurately with the correct pipework, thanks to the help of two club members who worked at the local oil refinery.

"They told us that the area around the tanks had to be spotlessly clean to reduce the risk of fire spreading, should it catch alight. We were quite pleased to get this information because, as modellers, the natural thing to do would be to weather everything and make things look dirty. With the information to hand we set about creating the tanks and it was here we encountered another problem. The tanks themselves were fine, but getting the correct size of former for the tanks was more of a challenge. We tried paint tins, cans of food and those rolls of sticky tape you can buy in five-roll bundles,

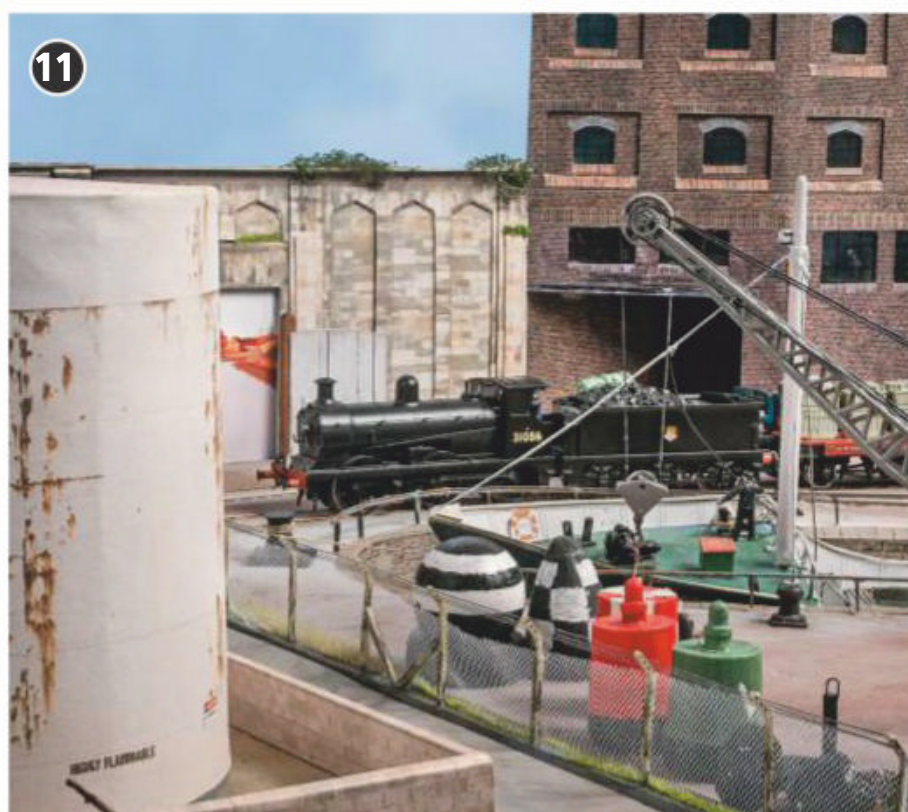
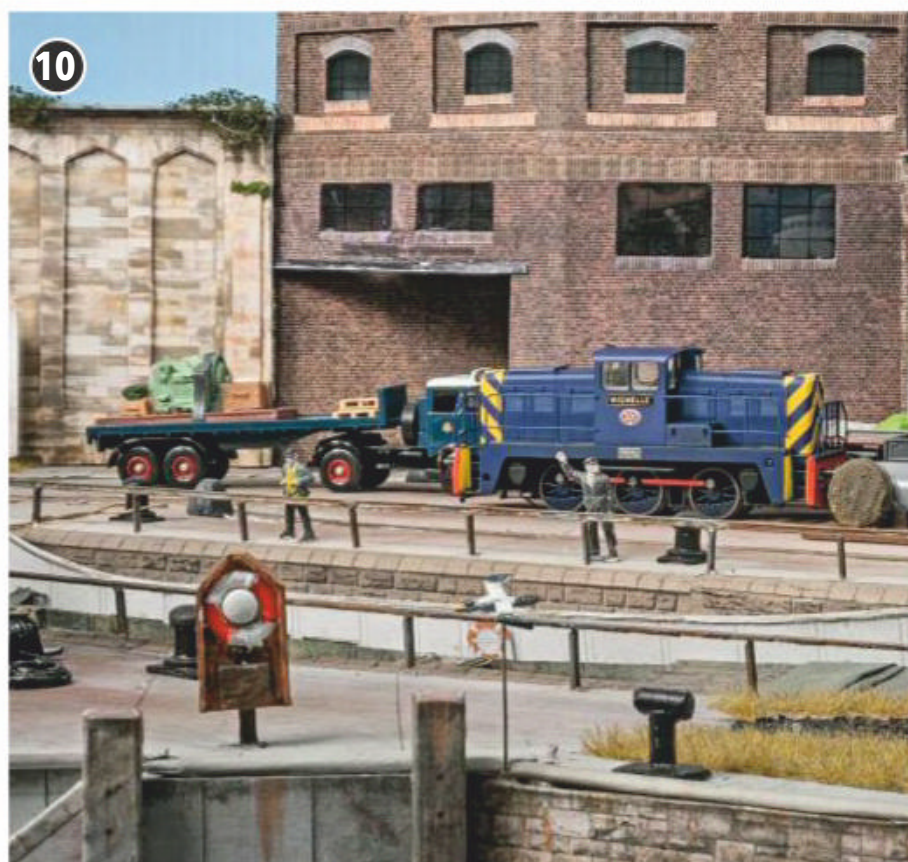
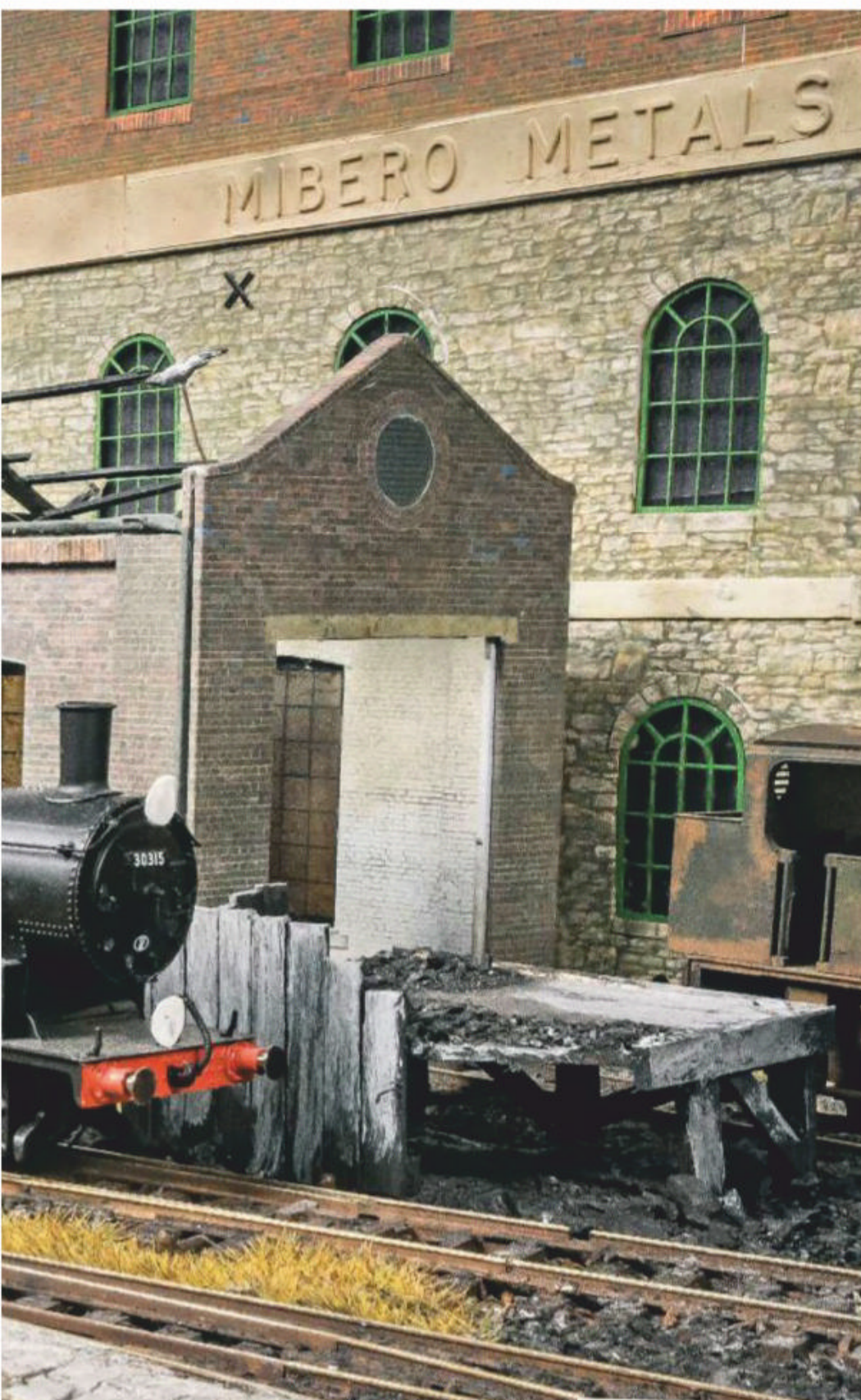
but then we found a piece of drainpipe which was the correct size and 'looked right'."

Ian is currently fitting uncouplers in the form of metal plates that are controlled with Bowden cable, a flexible cable which causes very little friction and can be bent around curves.

"It's more commonly used in remote control boats and planes, but I've found it a versatile product when operating the uncouplers. While I'm doing that, Bob is altering the fiddleyard board to include an extension to the quayside and a dredging platform is under construction.

"Hopefully, these will all be in place before the club's open day towards the end of June, when 'Bosun's Wharf' will be importing and exporting at full capacity." **MR**

Above: 'Bosun's Wharf' isn't era-specific. Bob and Ian like to run anything that doesn't look out of place on a quayside.

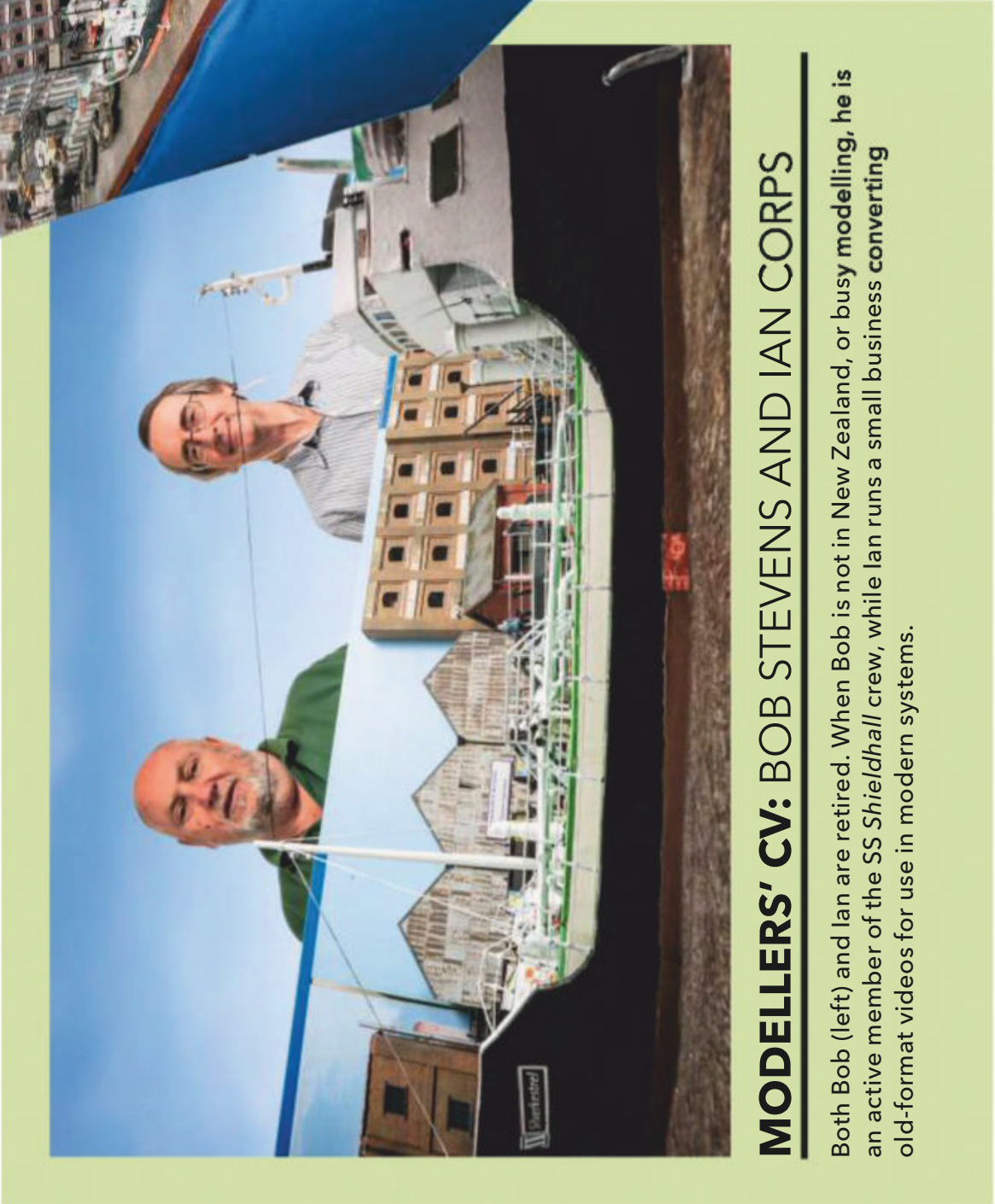
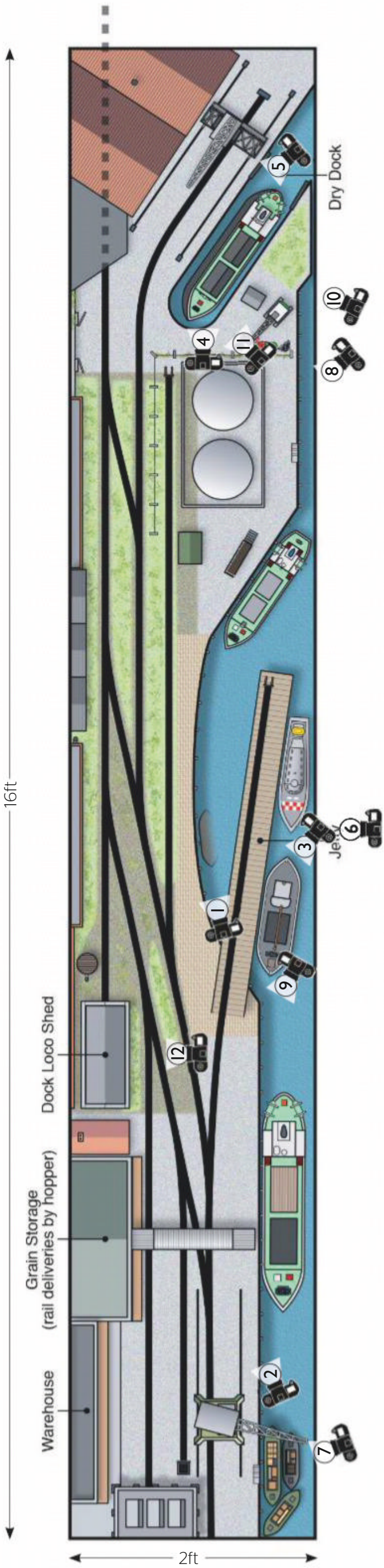


Right: The goods shed has its own story - the roof burnt down in a fire. Ian plans to detail the interior of the shed since viewers can see through the roof.

DISCOVER **MORE,** DO **MORE**

'Bosun's Wharf' will be on show at the Southampton Model Railway Society's club rooms on June 22 2019 at the society's open day.

LAYOUT **BOSUN'S WHARF**

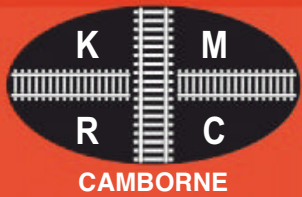


MODELLERS' CV: BOB STEVENS AND IAN CORPS

Both Bob (left) and Ian are retired. When Bob is not in New Zealand, or busy modelling, he is an active member of the SS Shieldhall crew, while Ian runs a small business converting old-format videos for use in modern systems.



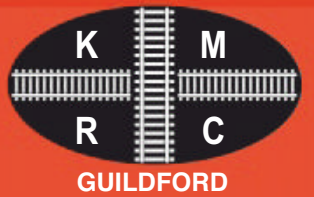
The baseboards are of plywood construction; they fold together in pairs and are easy to lift.



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31-654 Class 47/4 Diesel Locomotive No. 47 576 "Kings Lynn" Network SouthEast..... £108.99	37-095A Coal Trader Pack. 3 x 7 Plank Private Owner Wagons, weathered..... £34.95	39-127B BR Mk1 CK Composite Corridor Coach No. E15055 BR Crimson & Cream..... £27.99
31-728 GWR 3700 Class Steam Loco No. 3708 "Killarney" Great Western Green..... £91.99	37-185A 7 Plank Wagon No. P156917 with Coke Rails (BR) Cory, weathered..... £14.95	
31-883 Midland Class 4F Steam Locomotive No. 3848 Midland Black Crest..... £71.99	37-327D 90 Tonne JGA Bogie Hopper BLI 19215 Buxton Lime, weathered..... £32.95	
31-884 Midland Class 4F Steam Locomotive No. 44044 BR Black L/C, weathered..... £83.99	37-356 13 Ton Steel Sand Tippler Wagon ZCO No. DB746085 BR..... £11.00	
32-067A Class 43 Warship Diesel Locomotive No. D836 "Powerful" BR Blue..... £95.95	37-529B 20 Ton Brake Van No. 182897 LNER Oxide, weathered..... £18.95	
32-068 Class 43 Warship Diesel Locomotive No. D838 "Rapid" BR Maroon..... £95.95	37-533 20 Ton ZTO Brake Van No. DB951767 BR Grey & Yellow, weathered..... £19.99	

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371-660 Class 57/6 Diesel Locomotive No. 57 603 "Tintagel Castle" GWR Green.....**£114.99**

371-661 Class 57/3 Diesel No. 57 305 "Northern Princess" DRS Northern Belle..... £114.99	377-601C BR BDA Bogie Bolster BR Railfreight..... £28.95
373-601D BR VGA Van No. 210520 BR Railfreight Red w/Speedlink branding..... £17.95	377-603A 80 Ton glw BDA Bogie Bolster Wagon Departmental Yellow w/Load..... £26.99
374-631A SR 50' Bogie B Luggage Van BR (SR) Green..... £25.95	377-604 80 Ton glw BDA Bogie Bolster Wagon BR Railfreight Distribution Metals Sector..... £26.99
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374-816A BR Mk1 FO First Open Maroon..... £33.99	377-852A SR 25 Ton 'Pill Box' Brake Van Right Hand..... £21.95
374-819A BR Mk1 FO First Open Blue & Grey..... £29.95	377-854A SR 25 Ton 'Pill Box' Brake Van BR Bauxite..... £21.99
374-889 50ft Ex-LMS Parcel Van BR Maroon..... £25.95	
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374-891 LMS Stanier 50ft Full Brake BR..... £31.95	
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DAPOL N

2F-034-008 21 Ton Hopper Wagon No. 10 Sykes, weathered..... £9.00	2P-012-301 Maunsell Corridor 1st Class Coach No. S7665 BR SR Green..... £17.99	377-088 7 Plank Wagon End Door No. 06515 GWR Grey..... £9.95
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2F038004 20 Ton Steel Wagon No. 33223 GWR Grey, weathered..... £9.00		377-091 7 Plank Wagon End Door No. 110 North End..... £9.95
2F071004 7 Plank Open Wagon No. 302078 LMS Grey, weathered..... £7.50		377-097 Coal Trader Triple Pack 7 Plank Private Owner Wagons, weathered..... £31.95
2F071006 7 Plank Open Wagon No. 37423 SR Brown, weathered..... £7.50		377-206 8 Plank Wagon with Coke Rails No. 5061 "Suncoke"..... £9.99

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George Dent
MR's Deputy Editor has been an active modeller for over 30 years.



Chris Leigh
MR's Consultant Editor is referred to by his grandchildren as 'Granddad Trains' – need we say more?



Peter Marriott
Rumour has it that MR's resident scenery buff even uses a Gras-Master on his own front lawn...



Dave Lowery
Professional model maker who's always busy with commissions from train operating companies.



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CONCRETE GROUNDWORK



George's diesel depot layout in MR259 looked great. How did he create the realistic concrete ground surface?

Sam Walker, by e-mail

George says: The depot's concrete hard-standing was created simply with off-cuts of Daler mounting card, which has a pleasant, subtle texture that's perfect for recreating concrete and far more effective than smooth plastic.

It's a time-consuming business to cut and shape the card to fit snugly against – and in between – the tracks. Furthermore, it's important to ensure that the card sits just below the level of the rail heads to facilitate track cleaning.

In reality, large areas of concrete are laid in sections with flexible grout added to any gaps. This compensates

for expansion and contraction or movement of the substrate. To replicate this, panel lines were drawn onto the card with a sharp pencil.

Although they were drawn with the help of a ruler, I purposely made the lines a little wobbly in places, especially where the panels intersect.

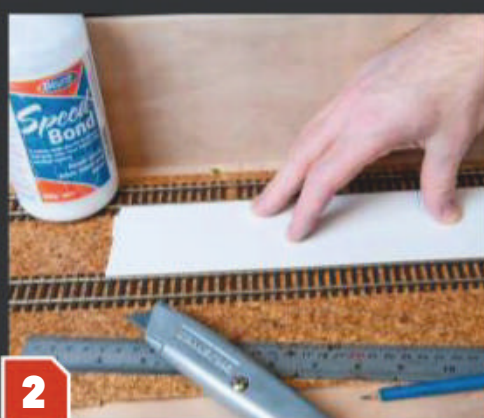
An airbrush was then employed to colour the concrete, creating shading around the edges of each panel and highlights towards the centre.

More general weathering then followed, again harnessing the special nature of the airbrush to produce a suitably dusty, grimy finish.

STEP BY STEP



Artists' mounting board is about 2mm thick and is ideal for all sorts of modelling tasks. First, thin strips were laid beside the tracks to act as spacers to gain the correct height for the top layer. Don't glue them yet.



Mark out and cut the top layers of card so that they sit close to the sides of the rails. Lay over the spacer strips and check that the top surface sits just below the level of the rails. If so, the card can be glued with PVA.



When all of the card sections have been glued, clamp with a few piles of books to ensure that everything is flat. Leave overnight, before ruling thin lines with a sharp HB pencil to mimic the joints in the concrete.



Avoid creating a perfect grid pattern. Instead, the sections were irregularly shaped and the lines were purposely drawn a little 'wobbly'. Cracks emanating from the corners and joint lines add some extra visual interest.



An airbrushed mix of Tamiya XF10 Flat Brown and XF24 Dark Grey acrylics created shading, using the pencil lines as a guide, without obliterating them. Move the airbrush further away to create a diffuse mist.



90 mins



AVAILABILITY: Scale Model Shop Tel: 01422 405040 Web: www.scalemodelshop.co.uk

PRODUCT: Tamiya acrylic paints **PRICE:** £1.75 per jar

Artists' mounting board is great for rendering concrete groundwork, as it possesses a suitable texture that can be enhanced with the aid of acrylic paints and an airbrush.
ALL: GEORGE DENT



6

Tamiya XF66 Light Grey was added to the previous paint mix and misted into the centre of each concrete panel to create highlights and to soften the effect of the darker shading.



7

Tamiya XF10 Flat Brown and XF24 Dark Grey were airbrushed over the track and surrounding groundwork, with a little XF1 Flat Black added for extra shading. This mix was also misted over the concrete pad.



8

The mix of airbrushed colours can be tailored to suit your needs. This area of concrete is less grimy than that of the diesel fuelling area, with more of the grey and light brown shades visible.

TOP TIP

Acrylic paints are less toxic than enamels, making them ideal for use when airbrushing large areas of a layout.

Technique of the month

Easy four-character headcodes



How can I change the headcodes on my old Bachmann Class 37? Rob Berry, by e-mail

The early production Bachmann Class 37s didn't feature backlit headcodes, so they're easy to modify. Gently press the clear headcode panels out of the bodyshell with the tip of a finger, then prise away the black plastic inner panel with the edge of a knife. Plenty of decal options exist from Fox (www.fox-transfers.co.uk), but I used a set of printed paper 'codes, as supplied with a Heljan Class 27. They're just the right size and look really effective. (GD)



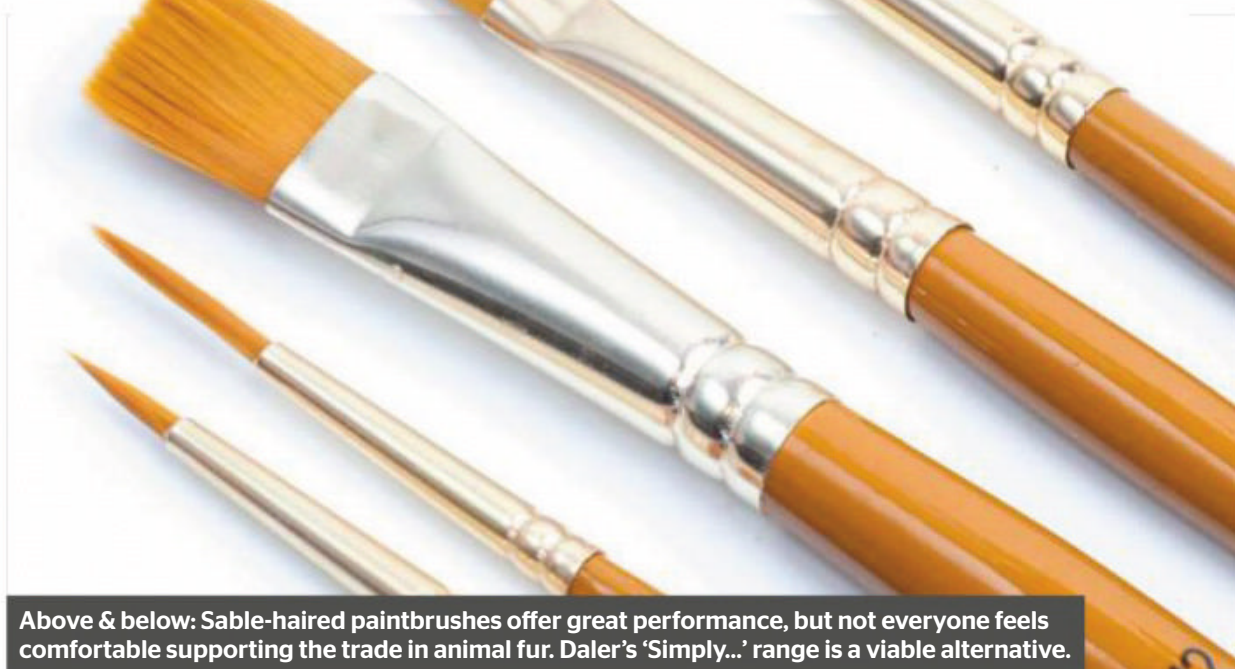
After gently prising the panels out of the bodyshell, the existing digits can be overlaid with decals or printed headcodes. The 8T24 is cut from a sheet provided with a Heljan Class 27 and was fixed with double-sided tape.



Push the headcode panel back into position and fix with a glazing adhesive, such as Glue 'n' Glaze, which dries crystal clear. Double-check that the panel is the right way up!



The slightly fuzzy nature of the printed paper headcodes - and the misaligned digits - removes the overly perfect nature of the factory-fitted originals.



Above & below: Sable-haired paintbrushes offer great performance, but not everyone feels comfortable supporting the trade in animal fur. Daler's 'Simply...' range is a viable alternative.

CRUELTY-FREE PAINTBRUSHES



I've just found out where sable brush bristles come from. Are there any synthetic alternatives of a similar quality?

Kirsty Henson, by e-mail

George says: Sable paintbrushes have long been favoured by artists and modellers owing to the superb qualities of the bristles. Sable brushes offer flexibility, longevity and excellent control, especially of oil-based paints.

Alas, sable bristles are derived from animal hair, although not from the sable, whose fur commands very high prices. Instead, Kolinsky sable brushes are made from various breeds of weasel native to parts of Russia and China.

The animals are killed for their fur, so the ethics of their production is questionable. Over the years, many synthetic alternatives have been offered, using nylon or polyester fibres (or a mixture of both), but few have matched the performance of sable.

However, more recent innovations have improved matters and a greater choice of non-animal-derived brushes has emerged. I've tried a few products recently and, so far, one of

my favourites has been the 'Simply... Gold Taklon' range from Daler Rowney. The bristles are 100% synthetic, yet offer a similar feel and performance to sable brushes. An added bonus is that the wood used for the handles comes from sustainable sources.

Daler's 'Simply...' range is affordable (certain synthetic sable brushes can be expensive), with a variety of shapes and sizes that are perfect for a range of modelling tasks. There are even sets offered in protective zip-up bags to help keep them in perfect condition.

They've performed admirably when used with enamels and acrylics and should be available from your local art supply store. This pack of ten brushes retails for £12.30.



THE RIGHT GLUE FOR FOOTPLATE CREW?



What glue should I use to fix a footplate crew into the cab of a steam locomotive?

Matthew St John, by e-mail

George says: I'd recommend a slow-curing cyanoacrylate glue, such as Roket Max from Deluxe Materials. This formula allows up to 30 seconds for repositioning and produces a strong, resilient bond that's resistant to vibration and the odd knock. Faster setting cyano glues often create a more brittle joint.

Fast-setting (5min) epoxy is a good alternative, but it's potentially messier. Furthermore, five minutes can feel like a long time when you're holding a small figure in position with a pair of tweezers!



WHAT BUILDINGS ARE AVAILABLE TO GO WITH MY NEW 'J70'?



I've just received my *Model Rail* 'J70' locomotive and am planning a small Wisbech & Upwell-themed layout. Are there any suitable buildings available?

Malcolm MacGregor, by e-mail

Peter says: Depot office buildings could be found at various locations on the Wisbech and Upwell Tramway, a surviving example of which can be found at Outwell.

Dating from 1883, the single-storey red brick structure features a hipped slate roof with deep eaves. A central doorway with segmental arch and four-panel door features at one end, with two segmental arch window apertures and stone window sills on one of the longer sides.

A kit of this typical Wisbech and Upwell building is produced by Arch Laser, part of a growing range of 'OO' and 'N' gauge kits and accessories available via Osborn's Models of Bideford.

The depot kit is available in 'N' (£7.95) and 'OO' (£10.95), rendered in micro plywood. Once painted, the building looks very realistic.

Availability: Osborn's Models

Tel. 01237 423453

Web: www.osbornsmodels.com



Arch Laser offers an excellent laser-cut plywood kit of a typical Wisbech & Upwell depot building, in either 'N' or 'OO' gauge. This is the 'OO' version. PETER MARRIOTT

PROTOTYPE QUESTION OF THE MONTH

WHY DO WELSH 'PACERS' HAVE TINTED CENTRAL WINDSCREENS?



I've just bought a couple of Dapol 'Pacers' in Arriva Trains Wales livery. On a recent visit to South Wales, I noticed that some of the Class 142s now have the central windscreens blacked out. Why was this done and how can I recreate it?

Ian Williams, by e-mail

George says: We're not sure as to the exact reason why, but the whole of the South Wales-based Class 142 and Class 143 fleets feature heavily tinted central windscreens. Presumably, it's to reduce glare within the cab, although Northern - the other operator of '142s' - notably hasn't followed suit. Perhaps the sun is brighter in South Wales than northern England!

The work was carried out by Arriva Trains Wales as part of a £500,000 upgrade programme that was completed in early 2018, just months before the end of the franchise. As well as internal and external renovation, the Welsh 'Pacers' were also equipped with free WiFi.

The simplest way of recreating the tinted windscreen is to cut and fix a sheet of black paper to the inside of the central windscreen, using a glazing adhesive, such as Deluxe Materials' Glue 'n' Glaze. Despite the paper being opaque, the discrepancy should not be too apparent in 'N' gauge.



Above: With the heavily tinted central windscreen clearly visible, 142080 stands at Cardiff Central before departing for Bargoed, on August 2017. GEORGE DENT

HOW TO: ENHANCE YOUR WAGONS WITH POSTERS



I've been trying to get hold of some of the Hollar Models printed wagon poster packs. Where can I obtain them, how are they applied and how can I give them a suitably dishevelled look?
Gerald Fairclough, by e-mail

George says: The Hollar Models wagon posters are now available from Wizard Models (see below). Available in 'OO' and 'O' gauge, they're printed onto self-adhesive paper and simply require cutting out with a fresh, sharp blade and fixing to the side of your chosen wagons.

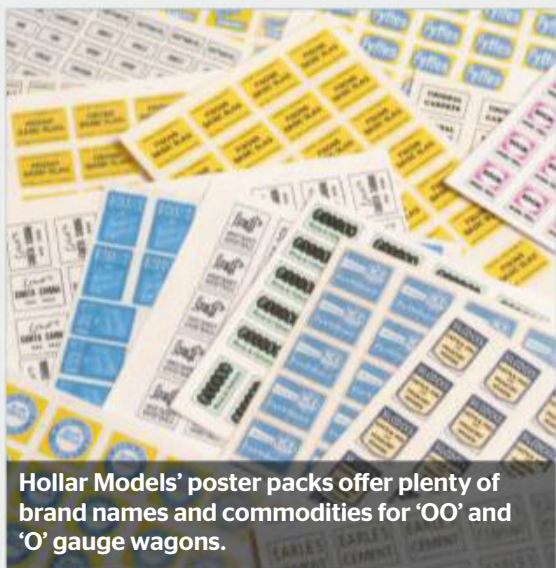
There's a wide variety of posters available, for commodities such as cement, carpets, pet food, fertilisers, animal feeds, bananas and biscuits, with a host of household brand names and logos.

These posters were applied to general goods vans from the 1950s up to the 1970s and were a cheap and effective form of advertising. Prone to becoming grubby and torn from exposure to the elements, they didn't stay clean for long.

The Hollar label packs do provide a few faded labels in each set, but some extra distressing and weathering work is definitely worthwhile.

Scrunching, tearing and scraping the posters will take away the pristine appearance, while it's also viable to layer different posters to signify how a wagon has been used for several types of traffic.

The posters look especially convincing when combined with chalked destination markings (www.fox-transfers.co.uk) that relate to the advertised cargo, providing an effective means of adding character to otherwise anonymous freight stock.



Hollar Models' poster packs offer plenty of brand names and commodities for 'OO' and 'O' gauge wagons.

What you will need

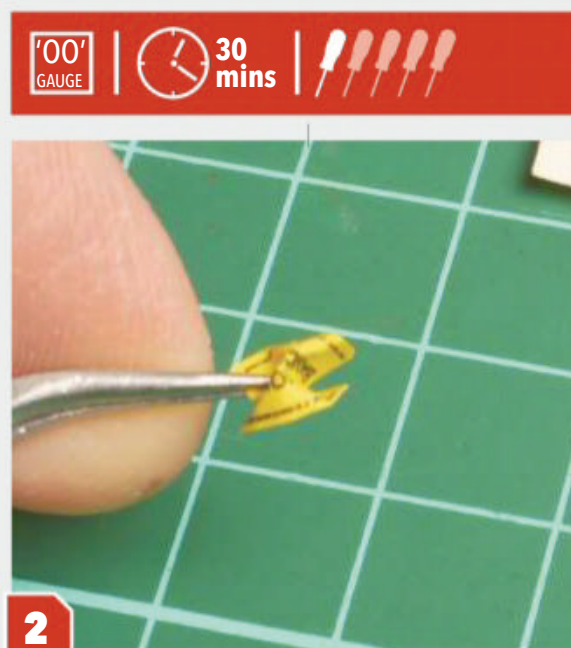
- ◆ Hollar Models wagon posters
Availability: Wizard Models
Tel: 01652 635885
Web: www.wizardmodels.ltd



Applying advertising posters, as produced by Hollar Models, adds character to otherwise anonymous freight stock. Distressing and weathering offers even greater realism. GEORGE DENT



1 Using a fresh, sharp blade and a steel rule, carefully cut out the individual posters from the sheet. With control, it's possible to cut through the paper only, making it easier to peel away from the self-adhesive backing.



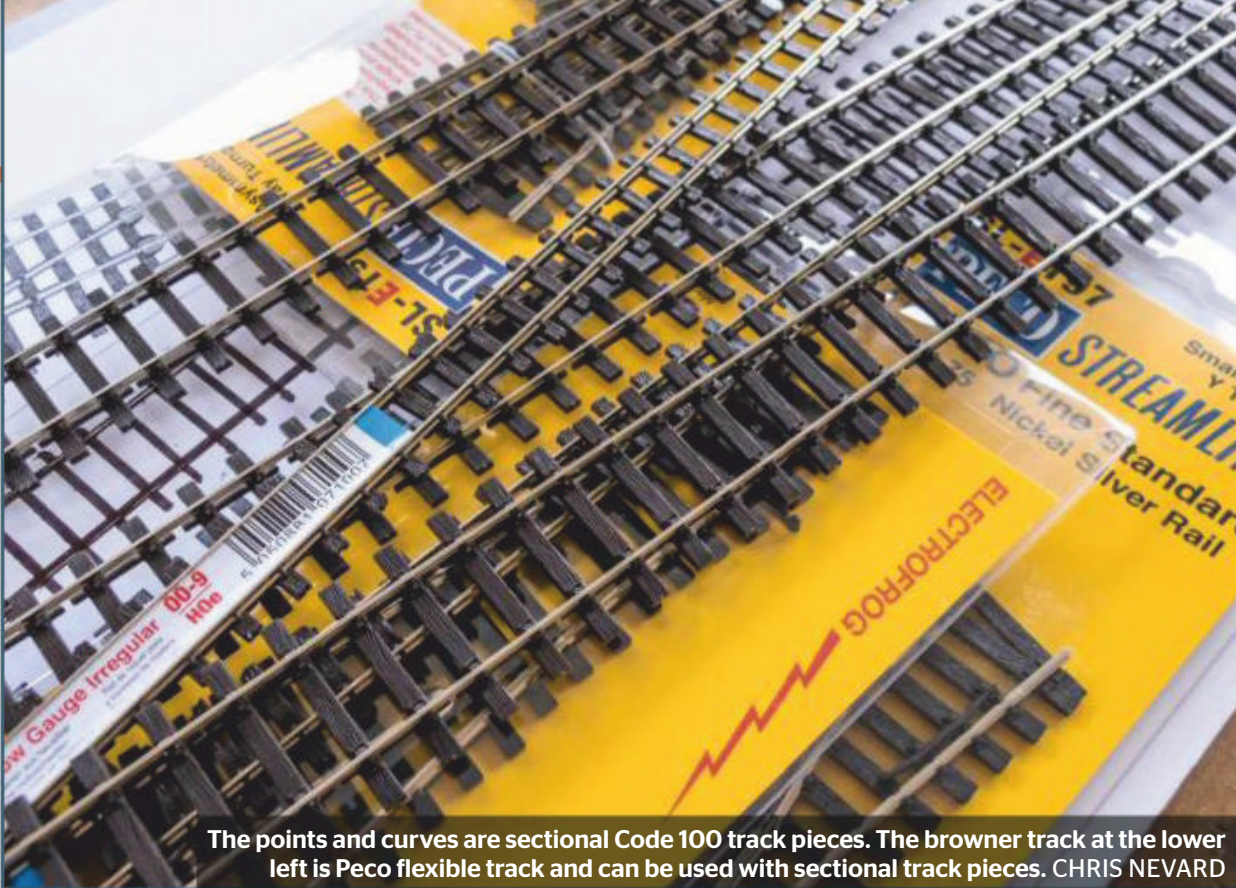
2 Gently scrunch up the poster between your fingers, before flattening it out. Don't worry if the ink flakes away as this adds to the distressed appearance. It's not necessary to get the poster perfectly flat.



3 If the adhesive has been compromised, add a tiny blob of cyano or PVA glue to the rear. Once in position, further distressing can be effected with the edge of a knife.



4 Layering posters adds even more interest. Lightly brushing weathering powders over the surface helps them to blend with a grubby wagon.



The points and curves are sectional Code 100 track pieces. The browner track at the lower left is Peco flexible track and can be used with sectional track pieces. CHRIS NEVARD

SOLUTIONS FOR A ONE-TRACK MIND



I'm new to railway modelling and have just bought a Hornby train set. Trouble is, I'm already bored with a simple oval and want to make

Peter says: 'Yes' and 'no'! Hornby's Code 100 track system is fully compatible with the extensive Code 100 Streamline and Setrack ranges from Peco, as well as Bachmann's and Gaugemaster's GM97 flexible track. Peco's Code 75 flatbottom rail and Bullhead track can be connected without too much fuss. There's an adapter available for linking flatbottom Code 75 to the Code 100 range.

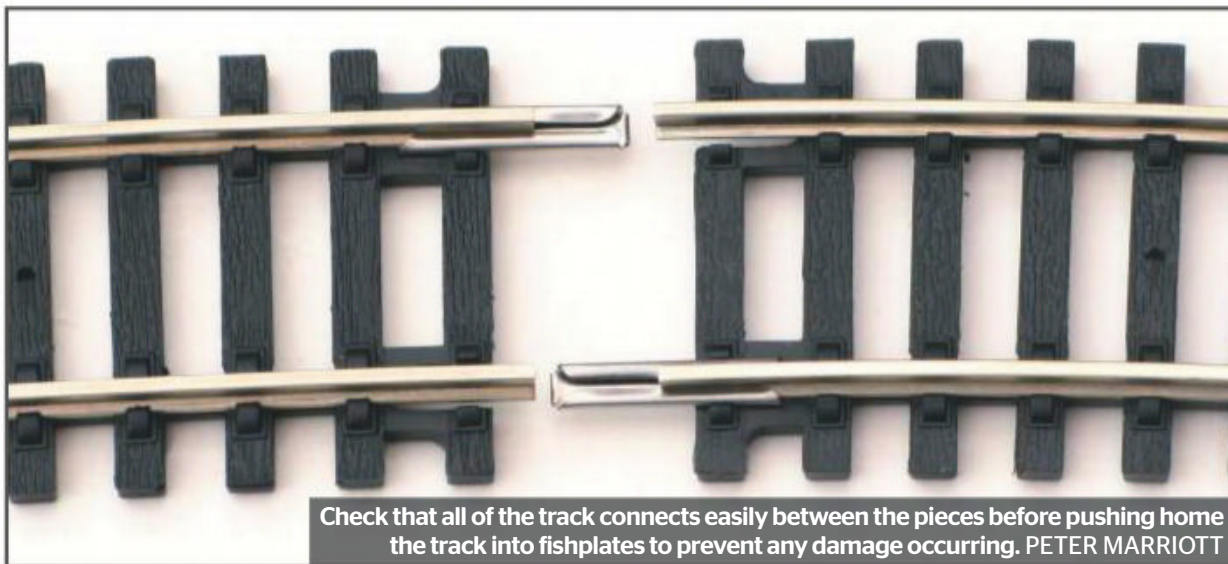
There are many other 16.5mm gauge track systems out there, including Bachmann EZ

it bigger. Are all 'OO' gauge track systems compatible or should I stick exclusively to Hornby track?

Chris Dawson, Kettering

Track, Kato Unitrack, Märklin, Piko and Tillig. None of these track systems will work well with your Hornby track without some messing around.

If the geometry of the layout does not permit a specific layout, bespoke pieces can be formed by cutting pieces of either sectional or flexible track to fit. To cut track it is necessary to use a sharp, fine-toothed saw or a pair of rail cutters such as those manufactured by DCCconcepts and Xuron.



Check that all of the track connects easily between the pieces before pushing home the track into fishplates to prevent any damage occurring. PETER MARRIOTT

Tool of the month

Precision drills with thicker shafts

As anyone who has used miniature drill bits will know, there's a constant risk of breakage, especially when working into awkward areas or tough materials.

Many pin vices also struggle to clamp the smallest drills securely, while use in a power drill is almost impossible.

This pack of ten HSS twist drills feature a universal 2.35mm shank, with the cutting tips tapering to a variety of diameters (0.5, 0.6, 0.8, 1.0, 1.2, 1.3, 1.5, 1.8, 2.0 and 2.2mm).

Thanks to this larger shaft, the drills can be fitted securely into almost any pin vice or power drill and the thicker material means that the bits are much less likely to break.

Able to drill up to a maximum depth of 10mm, they're an essential part of any modeller's toolbox.

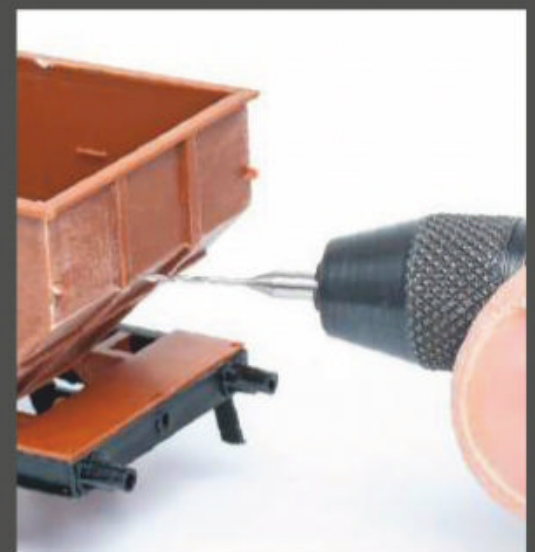
Product: Modelcraft 10pc Microbox drill set (0.5-2.2mm)

Availability: Scale Model Shop

Price: £13.95

Tel. 01422 405040

Web: www.scalemodelshop.co.uk



THREE CAMEO IDEAS FOR YOUR LAYOUT...



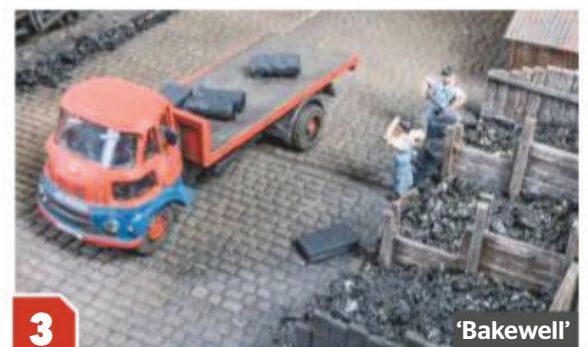
1 'Trinity Dock Street'

Seagull stains: This Wills chapel suits the addition of a scratchbuilt bell tower and the dockside location is reinforced by the copious amounts of seagull droppings!



2 'Borders Reach'

Fuelling-up: Deliveries of diesel fuel and lubricating oil by road vehicles has been a common feature of smaller traction depots since the 1960s.



3 'Bakewell'

Taking a break: These coal merchants are clearly taking their time bagging up the 'black stuff' from this wayside goods yard. They've a way to go before that truck is full!

Masterplan Fieldwork

Plans to get you thinking in three dimensions

GET CLOSE to the subject

Paul A. Lunn reveals the secrets behind
a successful building survey.

Photography & artwork: **Paul A. Lunn**





You've just surveyed your favourite stretch of railway. It's been a fun day out, visiting a much-loved haunt and absorbing the atmosphere. Your inspiration is triggered, and now you want to get cracking with the layout that you've just envisaged...

One of the main reasons for carrying out a survey is to take your research and turn it into a realistic model. But how, exactly, do you do that?

The first part is to interpret your results. Here are my discoveries from surveying Falmouth Docks.

All that remains of the station there is part of the canopy and one platform. There is a series of stanchions/columns supporting the arched corrugated roof. By analysing the space between each pair of columns, it will be easy to locate the various items of railway paraphernalia along its length.

There are 18 bays with 19 columns. These vary from 10ft 7in to 10ft 10in between the inside faces of any pair, except for bay 18, nearest the station



entrance, which is 13ft 2in. For modelling purposes these measurements could easily be rounded up or down to the nearest foot and, depending on space, reduced in number to suit a less-than-prototypical length baseboard.

All columns are wooden, except for the third one, which is concrete. There are modern Falmouth Dock signs on columns 7, 13 and 17, fall pipes on the side of 2, 6, 10, 14 and 18 and fluorescent strip lights centrally placed in all the odd-numbered bays.

From part-way into bay 11, to the end of 18, there is an English Bond brick lean-to with corrugated plastic roof. The platform, which is paved in this area, is 21ft 8in deep with edging slabs (4ft 4in by 2ft 6in) running the full length of the platform. Two seats with cast ends (one BR (W) and one ex-GWR) were provided against the lean-to wall, at the time of survey.

So what do we do with that information? If you know any of the building's dimensions, you can put together a fairly accurate scale drawing to assist your model making. What follows was all put together from my 1988 survey visit. ➤

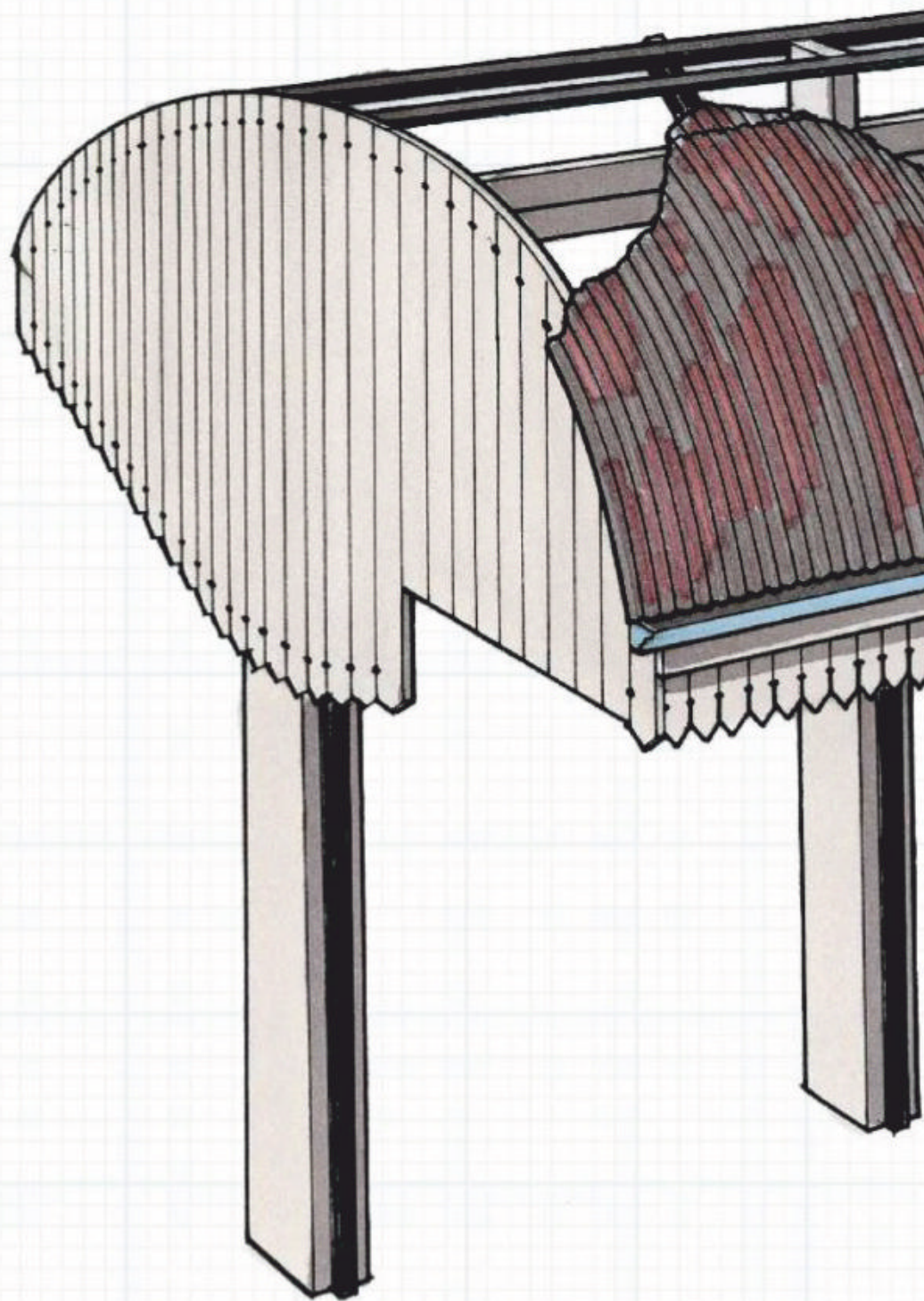
MEASURING UP TO THE CHALLENGE

Here are scale drawings based on my basic overall measurements, and measurements estimated from elevational photographs. For ease of construction, I recommend a combination of adapted kit parts, sheet material and ready-made detailing packs, as shown on the accompanying 3D illustration.

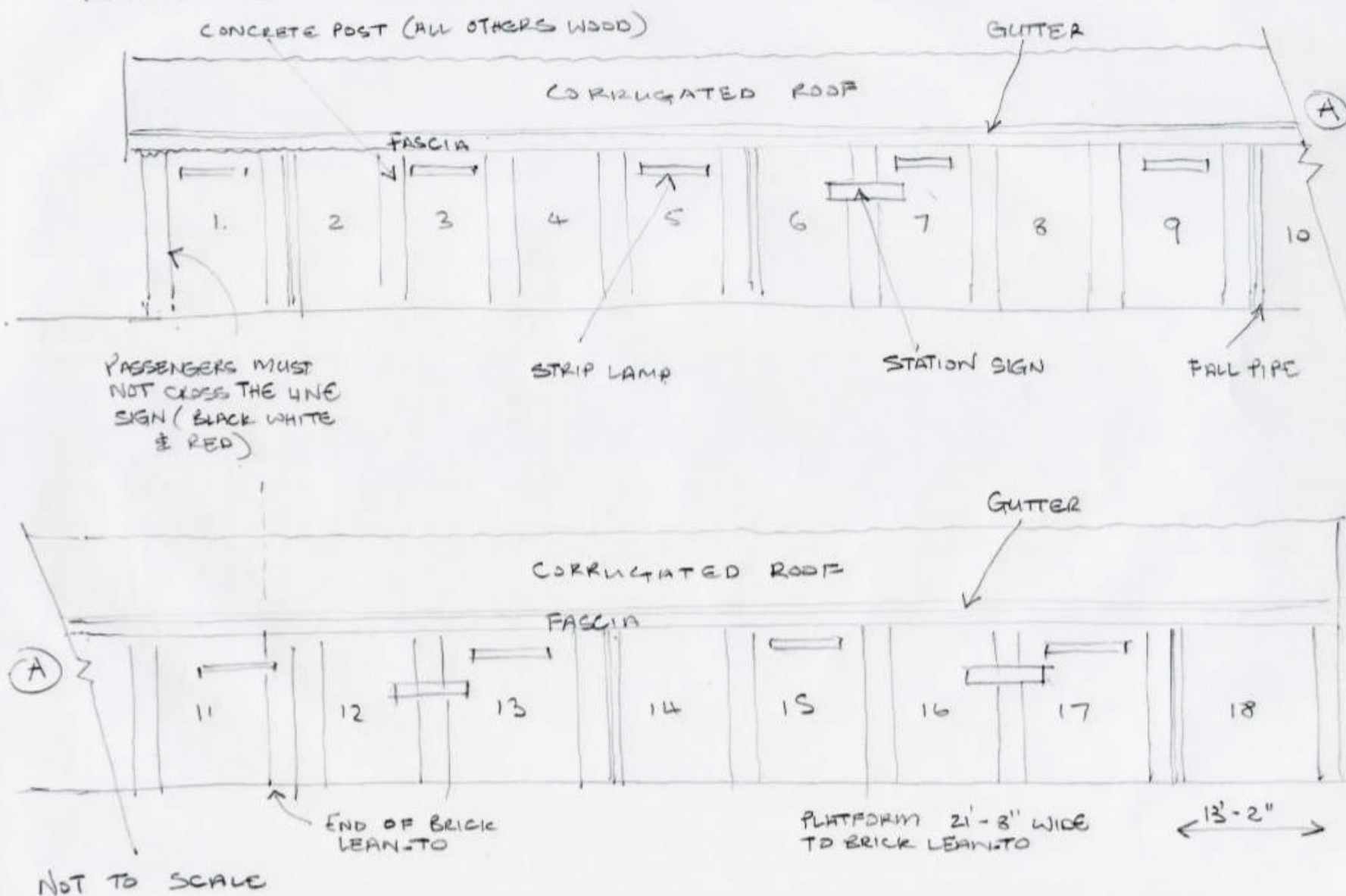
I've suggested Dapol's canopy end valances, reshaped to a curve, plus their front valance for the long front. Slater's 0436 or South Eastern Finecast FBS409 4mm embossed plastic corrugated iron sheet should bend easily for the corrugated roof and the wood columns and, ideally, cross-members should be made from very fine-grain stripwood. For additional strength it would be wise to 'dowel' the columns into the platform surface.

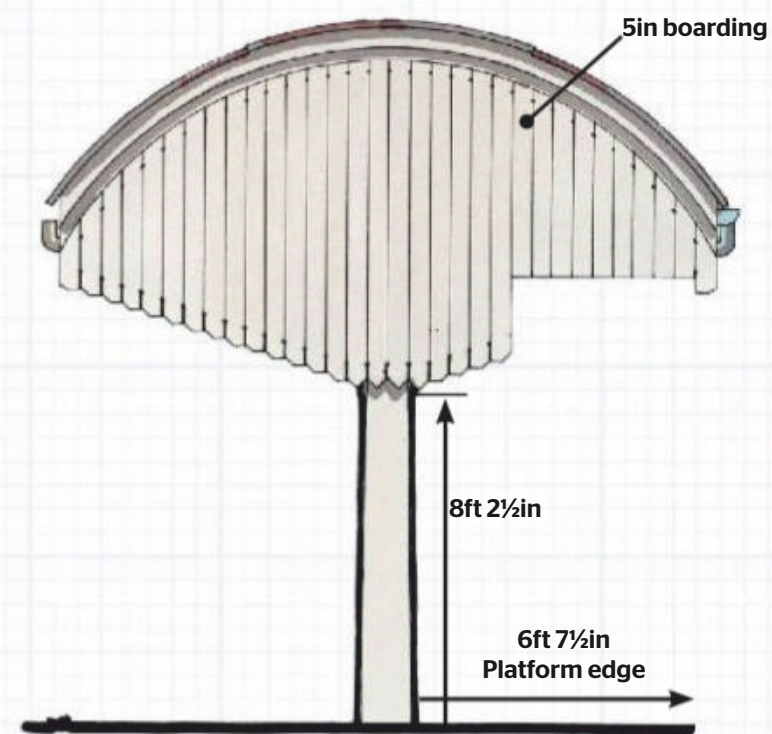
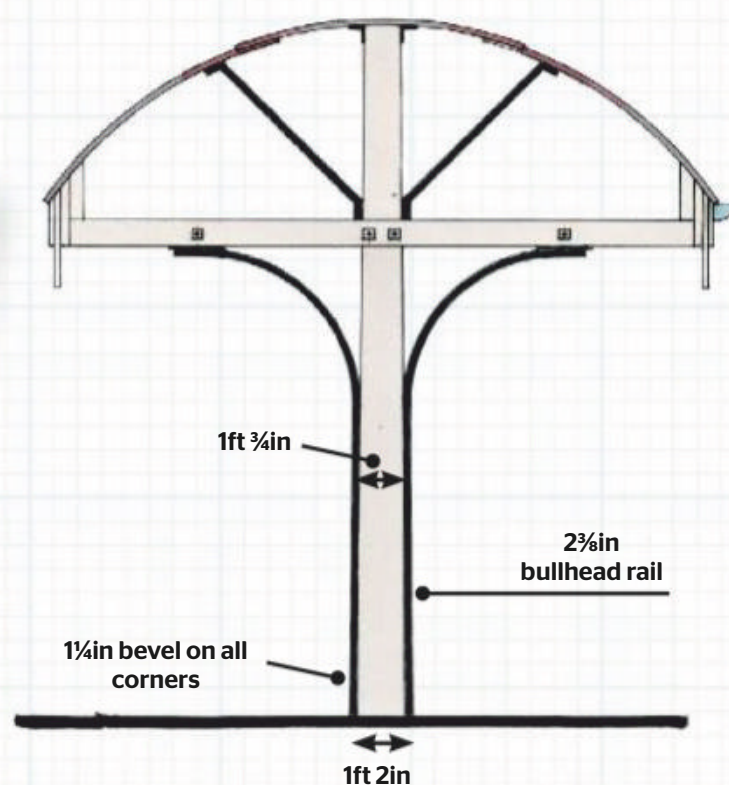
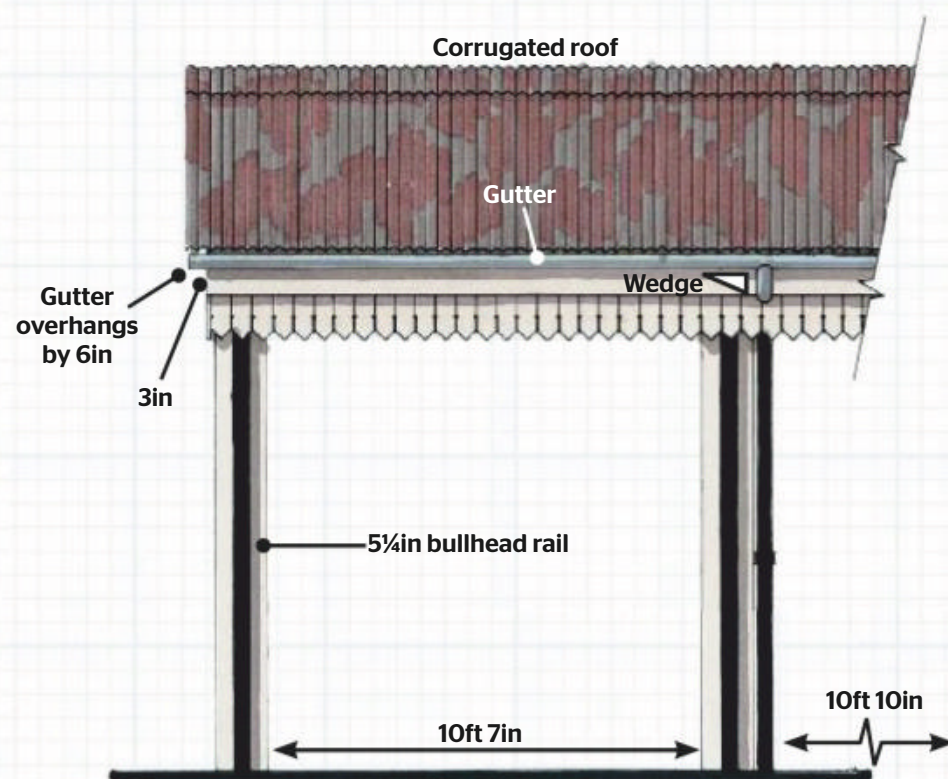
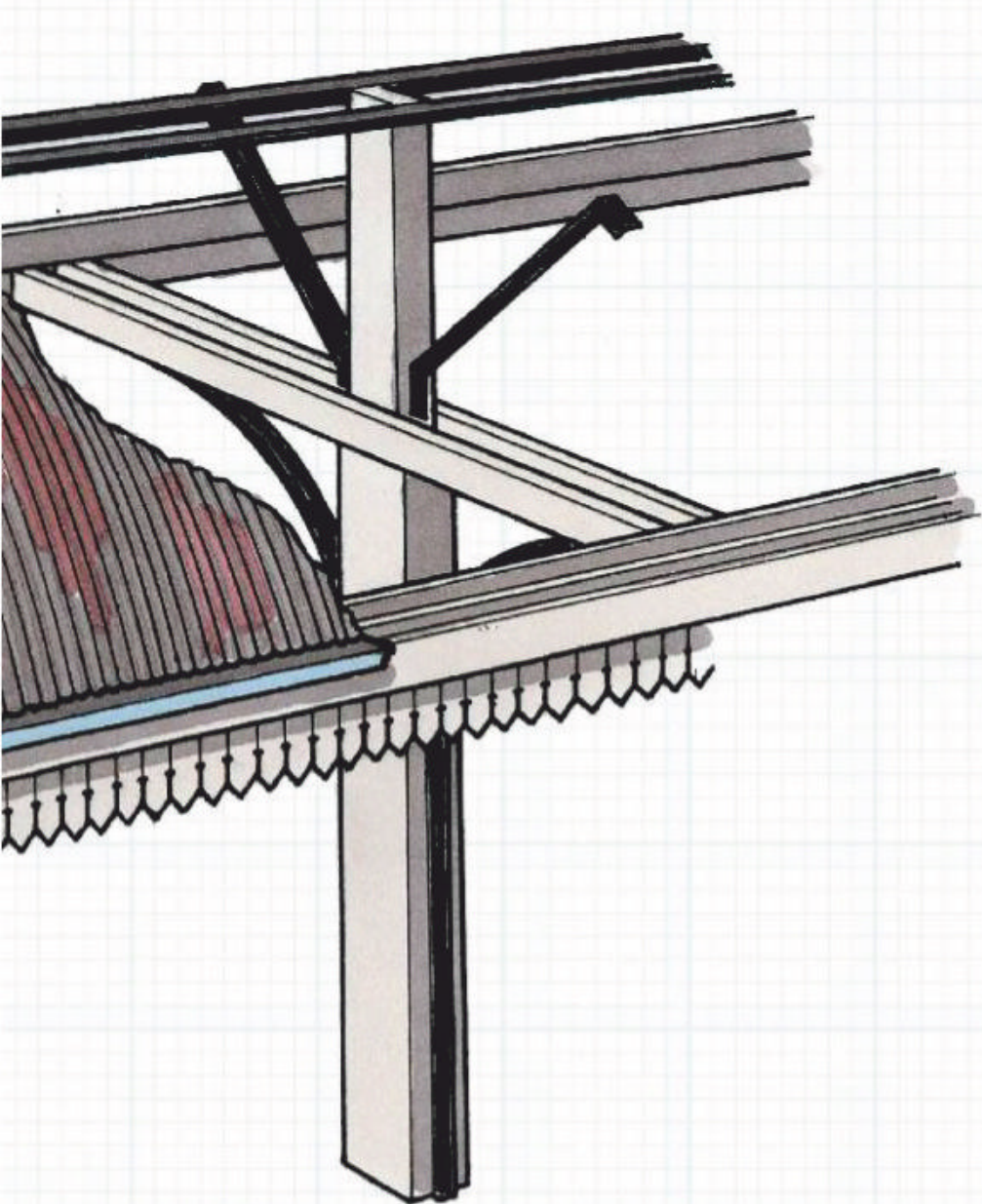
Perhaps most difficult would be the curved bullhead rail supports. I reckon it would be worth making some sort of template or former to maintain accuracy throughout the large number of components involved; 38 will be required if you're modelling a scale length canopy. Under-roof metal angle can be replicated from the Plastruct range, with guttering and downpipes from Peco Ratio 538. Colour photographs are a boon for accurate finishing, but even they can be deceptive under certain lighting conditions.

So, to clarify, all columns, valances and interior brickwork were painted cream. The corrugated roof is very dark grey, almost black, with extensive rusting, guttering in blue and fall-pipes and bullhead rail supports in black. At the time of my 1988 survey all the colours were heavily aged.



FALMOUTH DOCKS STATION CANOPY.





Please note: the black and white scale bar is divided into 1ft sections



SHOPPING LIST

- ◆ Plastruct styrene angles, from £6.24
Availability: EMA Model Supplies, 14 Beadman Street, London **Tel:** 0208 761 5333
Web: www.ema-models.co.uk
- ◆ Ratio 538 Gutters & Downpipes, £5.25
Availability: Gaugemaster **Tel:** 01903 884488
Web: www.gaugemaster.com
- ◆ Dapol C010 Platform Canopy, £7.07
Availability: Dapol stockists or www.dapol.co.uk
- ◆ Slater's 436 4mm Scale Corrugations, £3.00 per sheet **Availability:** Slater's Plastikard, Old Road, Darley Dale, Matlock, Derbyshire DE4 2ER **Tel:** 01629 734053
Web: www.slatersplastikard.com
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4F-061-006 - Bogie Bolster Wagon E BR 924327 Bauxite

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Product Scale Key

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OO Gauge

N Gauge

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Reviews

In-depth and unbiased reviews of the latest products

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Richard Foster puts this exquisite (and expensive!) brass model under scrutiny.

99 Golden Valley Hobbies track tester

After extensive testing, Richard Foster gives his verdict on this track and voltage tester.

100 Gaugemaster catalogue

Think Gaugemaster is only about electronics? Its new catalogue reveals the huge extent of its range.

99 Scale Model Scenery lineside signs

These simple signage kits suit any modern layout. Chris Gadsby test-builds them.

100 Scale Model Scenery loco dust cover

Chris Gadsby builds this simple kit to combat one of model railways' biggest enemies.

101 Three to read and one to watch...

Ben Jones gives his opinion on three books, while Richard Foster reviews the latest Ivo Peters offering.

Our reviewers

Chris Gadsby

Loves making kits and the finer details of model railways.

Richard Foster

His forte is steam locomotives, regardless of region or era.

Ben Jones

A former editor of *Model Rail*.

Our ratings

We assess models on the following criteria and rate each of them out of ten: that way, you know precisely how good a model is.

LOOKS	9/10
PERFORMANCE	9/10
FEATURES	8/10
DECORATION	9/10
VALUE FOR MONEY	6/10
TOTAL	82%

How we test

At *Model Rail*, we pride ourselves on the quality, thoroughness and unbiased nature of our reviews. To do this, we judge models against prototype images and historical texts. We also run them on our test track, which features 1-in-30 and 1-in-60 gradients in both 'N' and 'OO', not to mention numerous challenging track configurations.





Masterpiece Models 'Castle' 4-6-0

◆ **GAUGE/SCALE** 'O'/'S7' ◆ **MODEL** Masterpiece Models WR 'Castle' No. 7007 *Great Western*, BR green late emblem; No. 7032 *Denbigh Castle*, BR green early emblem

◆ **PRICE** From £3,432 ◆ **AVAILABILITY** Masterpiece Models **Tel** 01737 242073 **Web** www.masterpiecemodels.co.uk

Some people are very lucky. They have the funds and resources to buy their favourite locomotive. But even these people can't have their locomotive inside their own home, where they can gaze at it lovingly any time they wish.

What if you could have your favourite locomotive, with almost all of the functions – save being able to light a fire in the firebox – of the real thing? And it would fit inside your house?

That's what Masterpiece Models produces. These aren't model locomotives; they're scaled-down

replicas of the real thing.

Masterpiece began in 2007 and, in the last 12 years, has brought us superb, museum-quality models of Stanier 'Duchesses', air-smoothed and rebuilt Bulleid 'Pacifics', and BR's 'Britannias' and 'Clans'. But it's Great Western designs that have dominated Masterpiece Models range.

It started with the 'Castle', followed that with the 'King' and has since gone on to produce the 'Grange' and '47XX', along with the '57XX' panniers, 'Small Prairies' and '14XXs'.

What we have here is

Masterpiece's latest, well, masterpiece. This is the post-war 'Castle', the '5098' series introduced in 1946 with three-row superheaters and, from No. 7000 onwards, mechanical lubricators. No. 7008-7037 weren't even Great Western locomotives as they were built by BR.

Henry Royce's famous quote about remembering the quality long after you've forgotten the price rings true here. Yes, they're undeniably more expensive than a mass-produced model from a Chinese factory, but that's not why you buy a model like this. You buy a model like this because you want the very best.

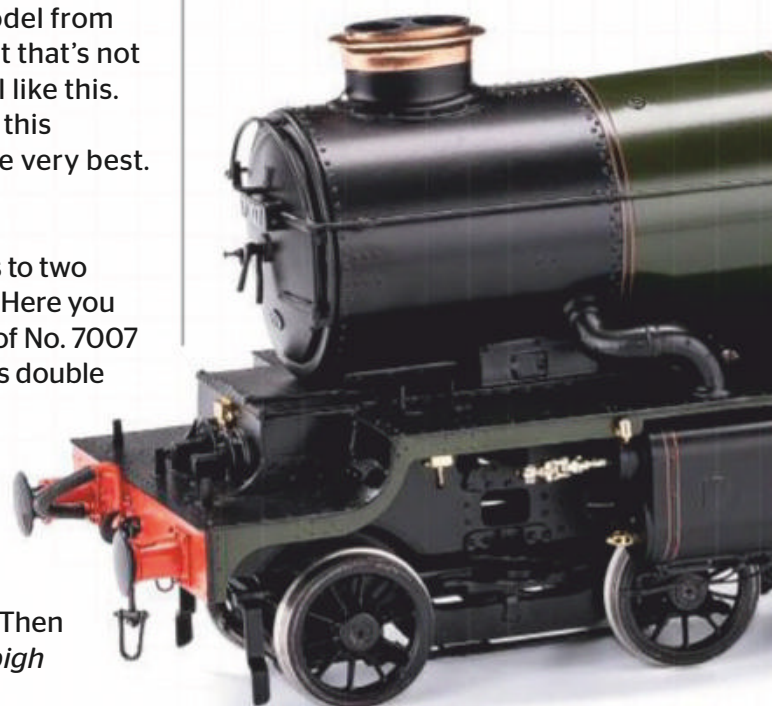
EXQUISITE DETAIL

We were given access to two Masterpiece 'Castles'. Here you can bask in the glory of No. 7007 *Great Western*, with its double chimney, post-1956 BR emblem and, given this was the last 'Castle' built by the GWR in 1946, the Great Western's crest on the splashers. Then there's No. 7032 *Denbigh*

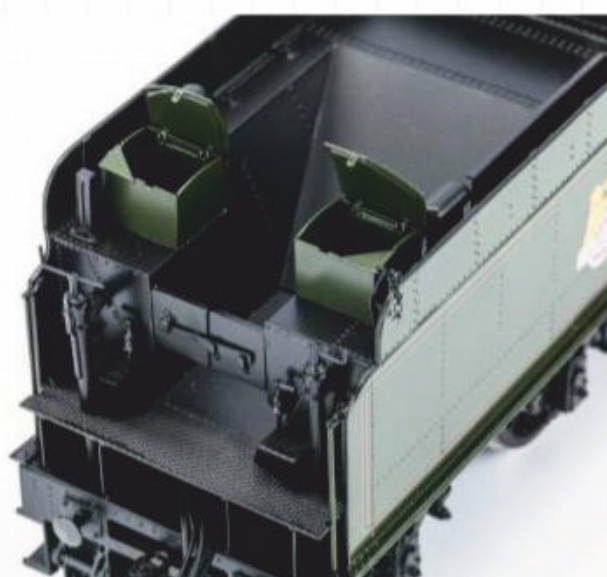
Castle, with single chimney and 'cycling lion' emblem.

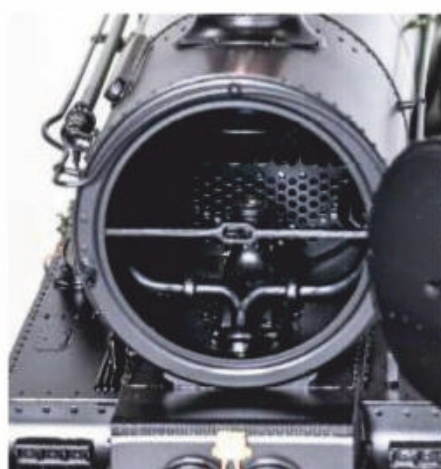
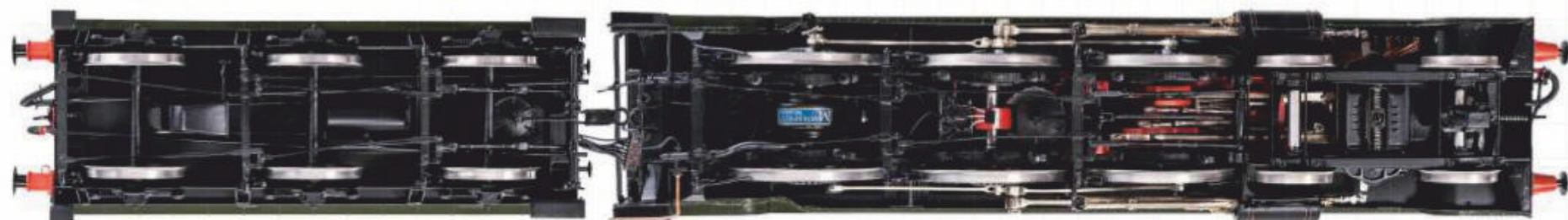
They both beautifully capture the elegant lines of the original. They look right from every angle and, if there are any flaws, it would take the most expert of 'Castle' aficionados to spot them. The exquisite looks are complemented by the finish. Being made of brass, the paint has real lustre and the lining is very fine.

Look closer and you'll find ➤



“You buy a model like this because you want the very best”





more surprises. All the pipe runs are spot on and even the coupling rod joints mirror how the real thing was built. Talking of motion, the rocking levers which link the inside and outside cylinders and valve gear move, and a look at the underside reveals working inside valve gear.

Some poking and prodding reveals just how extraordinary these models are. The smokebox door opens just like the real thing with a miniature dart and locking bar. Inside is the blastpipe, steam pipes and tubeplate.

Turn to the cab and aside from all the fixtures and fittings that have been beautifully replicated, the firehole doors open and the seats can be posed in the up or down position. The tender is just as good as the locomotive and the tool boxes open too. You even get a complementary box of miniature fire irons, lamps and a bucket.

These are truly testament to the skill of the artisans in Masterpiece's South Korean factory.

SUPERB PERFORMANCE

But these models aren't just for mantelpieces – they're designed to work. The motor is what Dave Lowery describes as "the most powerful around". *Denbigh Castle* performed superbly on

Dave's layout, handling heavy trains of brass rolling stock with ease. Dave was unable to test No. 7007, for it is fitted with 'Scale 7' (33mm gauge) wheelsets, which costs an extra £600 but creates an even more accurate finish.

As befits a model of this

quality, the 'Castles' come fitted with DCC decoders and sound speakers. There's no need to dismantle one to access the DCC socket for, under the tender tank filler, is a button that enables you to select 'DC' or 'DCC' mode. Could we dare hope that such a feature finds its way

on to mass-produced models? It would certainly make life a lot easier!

Museum-quality 'O' gauge is arguably the pinnacle of model railway manufacturing. So why not just spend a few minutes taking in the majesty of this miniature marvel? **(RF)**



Scale Model Scenery Lineside Signage

◆ **SCALE** '00' ◆ **MODEL** S017-00 ◆ **PRICE** £4.99 ◆ **AVAILABILITY** Scale Model Scenery **Tel** 01530 456952 **Web** www.scalemodelscenery.co.uk

Scale Model Scenery's modern lineside signage pack allows you to make key additions to your modern scene. For £4.99 you get 146 signs of 42 different varieties. There are

lots of duplications but this is no bad thing - chances are you will need more than one of each.

The signs are pre-cut and are held in place with a tiny sprue that needs cutting with a sharp knife. Also included in the pack are a number of grey tubes that can be cut to length and fixed to the back of the sign before fixing in place on the layout.

Network Rail has track plans available online at <https://bit.ly/3OonrHF> if you're prepared to do a bit of searching within the extensive documents (almost 1,000

pages) to find the section of the railway you want. These not only contain accurate track plans, but also provide details of the speed limit on those sections. From this you can determine how many of each sign you need, but also where they should be located.

The only criticism of the kit is that it's not customisable. It could be annoying if you need more of a particular sign and have to spend another £5 on another set just to get it, leaving you with even more signs and posts that you don't need. While it isn't a perfect substitute, I used a colour photocopy of the original to get the extra signs

I wanted. The quality is still high enough for a layout - you'll just need to back the paper onto some thin grey card to support it. (CG)



The larger 12mm diameter speed sign on Chris Leigh's 'Polwyddelan'.



REVIEW VERDICT

PROS. Realistic and quick to install.

CONS. Not customisable.

Golden Valley Hobbies Track and Voltage Tester

[LONG TERM TEST]

◆ **PRICE** £16.49 ◆ **MODEL** GVVOLT ◆ **AVAILABILITY** Golden Valley Hobbies **Tel** 01981 241237 **Web** www.goldenvalleyhobbies.com

There's a multitude of track testers on the market and they all work in the broadly the same way: if power is getting through, the tester will light up or buzz. If there's no power, there are no lights.

We reviewed Golden Valley Hobbies' track tester back in the summer of 2017. It was a bit more expensive than other units but it features a neat traffic light system: green for full 12V, amber for 9V and red for 5V and lower. Therefore, this enables you to highlight areas that suffer from

voltage drop. Designed for 9mm, 12mm and 16.5mm track gauges, our review sample didn't sit on '00' gauge railheads properly.

GVH swiftly sent through a replacement unit. The contacts protrude below the plastic casing more and the unit worked much better.

I've been using this little unit on my 'Gedney' layout ever since (time really does fly). The unit is designed for both 12V analogue and DCC and will also help find problems with polarity. I've not been able to make use of the traffic lights as

all three lights are illuminated under power (perhaps due to having DCC?) but the tester has been worth its weight in gold in helping to find those irritating electrical gremlins that can ruin an operating session. (RF)

REVIEW VERDICT

PROS. Good, well-built track tester.

CONS. Pricy, otherwise little of note.



Scale Model Scenery Loco Dust Cover

◆ **SCALE** 'N' and 'OO' ◆ **PRICE** £2.49 ◆ **AVAILABILITY** Scale Model Scenery **Tel** 01530 456952 **Web** www.scalemodelscenery.co.uk

Has dust ever caused you problems? Most modellers will be familiar with the way it gets into locomotive mechanisms, on to track and all over your scenery. So, what if there was an easy way to protect your locomotives other than taking them all off the track and putting them back into their boxes every time you finish a session?

Well, Scale Model Scenery's Loco Dust Cover is one solution. Printed on to thick card, all that's required of the modeller is to cut it out and glue the tabs to create what is, in a sense, a temporary locomotive shed.

Included in the pack are two pages of shed sides and four ends - enough to make two

medium-sized sheds that can hold the majority of locomotives. Some larger locomotives with tenders will need the two shed pieces joining together to make a single, larger one. The sheds are available with either a modern or steam-era decor.

Each pack also contains blank nameplates that you can label and attach to the sides, so you'll always know which locomotive each one is protecting.

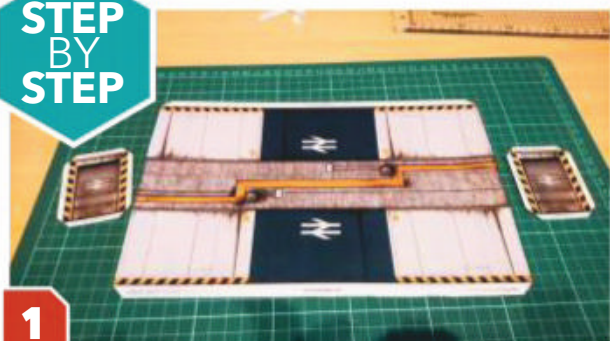
They can be built in around 15 minutes if a fast-acting glue is used, and only require basic tools. If you aren't blessed with a space large enough to build a locomotive shed on your layout, but don't want to keep packing your models away, this could be the ideal solution. **(CG)**



REVIEW VERDICT

PROS. Strong structure that does the job.
CONS. Can't type onto the nameplates.

STEP BY STEP



1 Cut out the shed with a sharp knife and a steel rule before scoring along the tabs and the fold lines.



2 Fix the two ends to the sides, gluing each tab one at a time - ensure that it has completely dried before you start the next one.



3 Write the name of the locomotive you are planning to protect onto the nameplate, then cut it out. Fix it to the centre of the shed, along with warning signs as desired.

Gaugemaster GM360 Model Railway Product Catalogue

◆ **PRICE** £4.95 ◆ **AVAILABILITY** Gaugemaster **Tel** 01903 884488 **Web** www.dapol.co.uk

Think Gaugemaster only sells electrical equipment and controllers? A flick through its new catalogue reveals just what an extensive range of products it offers. Top billing does go to its controllers, both analogue and DCC, but its electrical accessories range contains everything from transformers to reed switches, as

well as SEEP pointmotors.

But Gaugemaster also produces the Fordhampton and Kestrel plastic building kits (in 'OO' and 'N'), scenic products (from backscapes to static grass) and tools (from soldering equipment to wheel-cleaning brushes). Oh, and don't forget Tiny Signs and the Gaugemaster Collection of limited edition locomotives

and rolling stock, too.

The new catalogue also contains useful jargon busters, helpful electronics and wiring advice and techniques and tips to help you get the best from its range of scenic products. In fact, 'catalogue' is probably the wrong term for this publication - it's a surprisingly good source of modelling inspiration! **(RF)**



REVIEW VERDICT

PROS. Crammed with useful product information and ideas.
CONS. Nothing of note.

For your bookshelf

The Acquired Wagons of British Railways, Volume 2: All-steel Mineral Wagons and Loco Coal Wagons, by David Larkin

◆ PUBLISHER OPC ◆ PRICE £25.00
◆ ISBN 9780860936947

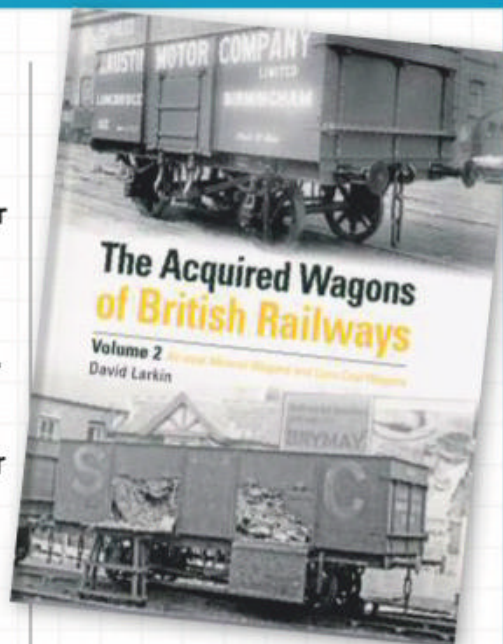
David Larkin started this series with pre-BR brake vans (Volume 1) and has now moved on to what was, until the Second World War, a relatively small group of vehicles – steel-bodied mineral wagons.

At first glance, you might consider these to be a fairly standardised group but a complex story of attempts to modernise and improve open wagons for commercial coal traffic and 'Loco Coal' deliveries to depots soon unfolds. Using more than 200 black-and-white photographs, the author covers all the many variations of pre-Grouping and 'Big Four'

steel-bodied mineral wagons inherited by BR in 1948, private owner types and those built for the Ministry of Transport during the Second World War which later passed to BR.

Types covered include early designs from the 1920s, the famous Butterley all-steel design, the Charles Roberts slope-sided type of 1939 adopted for mass production by the Ministry of War Transport and its predecessors, and the LMS and LNER wagons which provided the basis for the standard BR 16t mineral wagon. Larger types include the various 21t private owner types, GER/LNER, GWR and LMS Loco Coal designs and the GWR 20t 'Felix Pole' fleet.

For anyone with an interest in wagons or, more generally, in mid-20th century freight traffic, it provides an excellent work of reference as well as a source of inspiration for added variety to your coal trains. As well as a wide range of rare, previously



unpublished and generally high-quality images from both before and after nationalisation, the book provides full details of build dates, batches and wagon numbers.

Based on the first two volumes, this series looks set to build into an essential reference work for modellers and historians. Highly recommended. **(BJ)**

British Railways Pre-Nationalisation Coaching Stock, Volumes 1 & 2 by Hugh Longworth

◆ PUBLISHER OPC ◆ PRICE £40.00 each
◆ ISBN 9780860936756 (GWR/LNER), 9780860936954 (LMS & SR)

Finding accurate, detailed information on coaching stock has always been more difficult than it has for locomotives. More so for pre-nationalisation vehicles – until now...

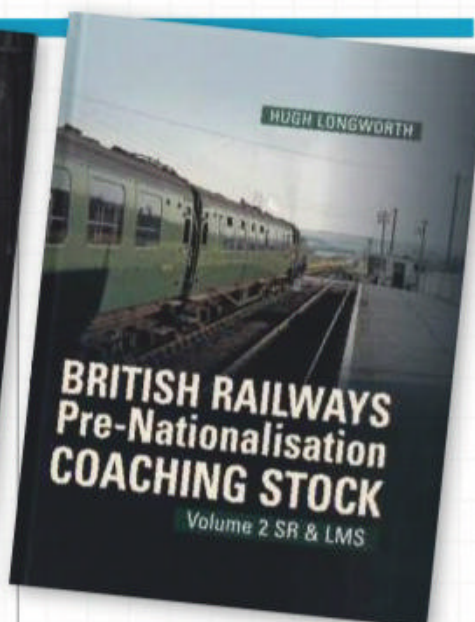
However, continuing his quest to provide a comprehensive reference library for the BR era, Hugh Longworth has compiled a two-volume study of every pre-BR passenger and non-passenger coaching stock vehicle inherited by the nationalised organisation in 1948. Volume 1 covers GWR and LNER vehicles, while Volume 2 features Southern, LMS and Pullman Car Co. stock.

As you might expect, this is a monumental piece of work, covering tens of thousands of vehicles from Victorian clerestory saloons to modern post-war Thompson, Stanier, Hawksworth and Bulleid designs that influenced BR's Mk 1, as well as mail



vans, milk tanks, horseboxes, sleepers, catering vehicles and ex-LNER 'streamliners'.

For each type, there's a brief technical description, internal and external drawings, BR running numbers and dates for introduction and withdrawal. Details of rebuilding, conversions and further use in the departmental fleet are also included where appropriate. From a modelling point of view, the lists of BR numbers are a huge boon for anyone renumbering RTR vehicles or building kits and wanting to apply the correct numbers. Not only that, but the withdrawal dates give you an accurate picture of what was in service in your region during your chosen period.



For Southern Region modellers, there's also an invaluable table of BR-era coaching stock sets in Volume 2, which gives set-by-set details of the individual vehicles that made them up and how they changed between 1948 and abolition in the mid-1960s. This volume also gives a brief overview of vehicles owned by the Pullman Car Co. and used by BR, including the 1960 Metro-Cammell Mk 1 type.

For the modeller looking to add variety and interest to BR era trains, there's endless inspiration in these two volumes, but they also provide a unique source of information for an often-neglected subject. Get them while you can – these books look likely to become highly sought after. **(BJ)**

The Ivo Peters Collection Vol 4: North Wales Narrow Gauge Steam 1959/60

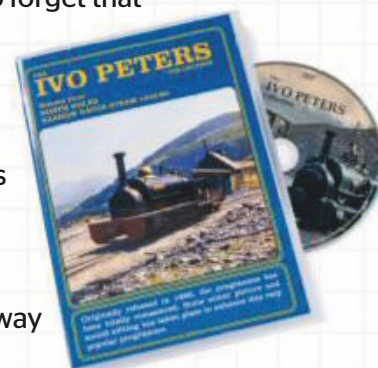
◆ SCALE Any ◆ PRICE £16.95
◆ AVAILABILITY Ivo Peters Collection, 2 Dark Lane, Steeple Ashton, nr Trowbridge, Wilts BA14 6EY

Ivo Peters' son Julian has been working towards offering his father's film archive on DVD... and the latest edition is a must for anyone with an interest in narrow gauge railways.

North Wales was one of Ivo's favourite places to film and photograph. This DVD is a 49-minute time capsule in which Ivo visits five locations, circa 1959/60 – two quarries, two preserved lines and a BR branch line! It's easy to forget that when Ivo visited the Tallylyn Railway, for example, it was enjoying its eighth season and the Ffestiniog Railway had only been open for four years.

It's fascinating to see these preserved lines as they were in their formative years. But if you want an honest record of what the Vale of Rheidol and Penrhyn and Dinorwic quarries were like at the dawn of the 'Swinging Sixties', look no further.

It's actually the views of the two big slate quarries that are the most poignant as, unlike the VoR, FR and TR, the quarry railways are no more. Ivo's film is a useful resource for gauging colours and textures for modelling. This film has been remastered from the original and the picture quality is, generally speaking, very good. The narration is, on occasion, a little dull and lacks the warm, personal touch that Julian Peters gives the Somerset & Dorset volumes (Vol 1 and Vol 2). That aside, this is another worthy addition to your DVD library. Highly recommended. **(RF)**



REVIEW VERDICT

PROS. A superb, full-colour look at North Wales narrow gauge.

CONS. Narration, otherwise nothing.

The club room

Be a part of the *Model Rail* community – get involved today.
E-mail: theclubroom@bauermedia.co.uk



The Guest Chairman

It's been a few weeks since the attack on Market Deeping MRC's exhibition in May. Chairman Peter Davies describes how the club is picking up the pieces and looking to the future.

Society: Market Deeping Model Railway Club
Established: 1976
Location: Near Thurlby
Chairman: Peter Davies



upturned, locomotives in pieces on the floor and bits of smashed scenery scattered about was heartbreaking. There was debris everywhere. We had to be really careful where we trod and pay close attention to where we were putting our feet – not just to avoid standing on models but because there were drawing pins and shards of broken glass everywhere.

“Breaking the news to the other members of the club was very difficult. Once the crime scene had been reopened by the police, we could only take one person into the hall at a time for safety (and emotional) reasons. One layout in particular took 25 years to build. Many of its buildings, as with other layouts, had been scratchbuilt. You just can't replace that work and time.

“The whole process has been an emotional rollercoaster. The trauma has been so great that some members have had to take time out from their normal day-to-day activities to help them recover from the shock. We are doing all we can to support them.

“However, the club is now looking at how it can move on from this in a positive way.

“Out of such a horrible situation, a positive sense of community from across the world has emerged. That has been truly amazing and incredibly humbling.

“We have been completely overwhelmed with the support received since it happened. I've been contacted by people from all over the world with offers of donations of money, materials and stock.

“The crowdfunding website which was set up has completely eclipsed anything we could have hoped for. Initially the target was set at £500 but the total has surpassed £105,000. There have also been offers from manufacturers and across the trade to help and we can't thank everybody enough.

“It will enable us to help others and, perhaps, view the future a little more positively.”

To support Market Deeping Model Railway Club, visit their JustGiving page at: www.justgiving.com/crowdfunding/market-deeping-mrc (quick link: <https://bit.ly/2X2ML3N>)

Address: Thurlby, Lincolnshire
(please contact the club for address)

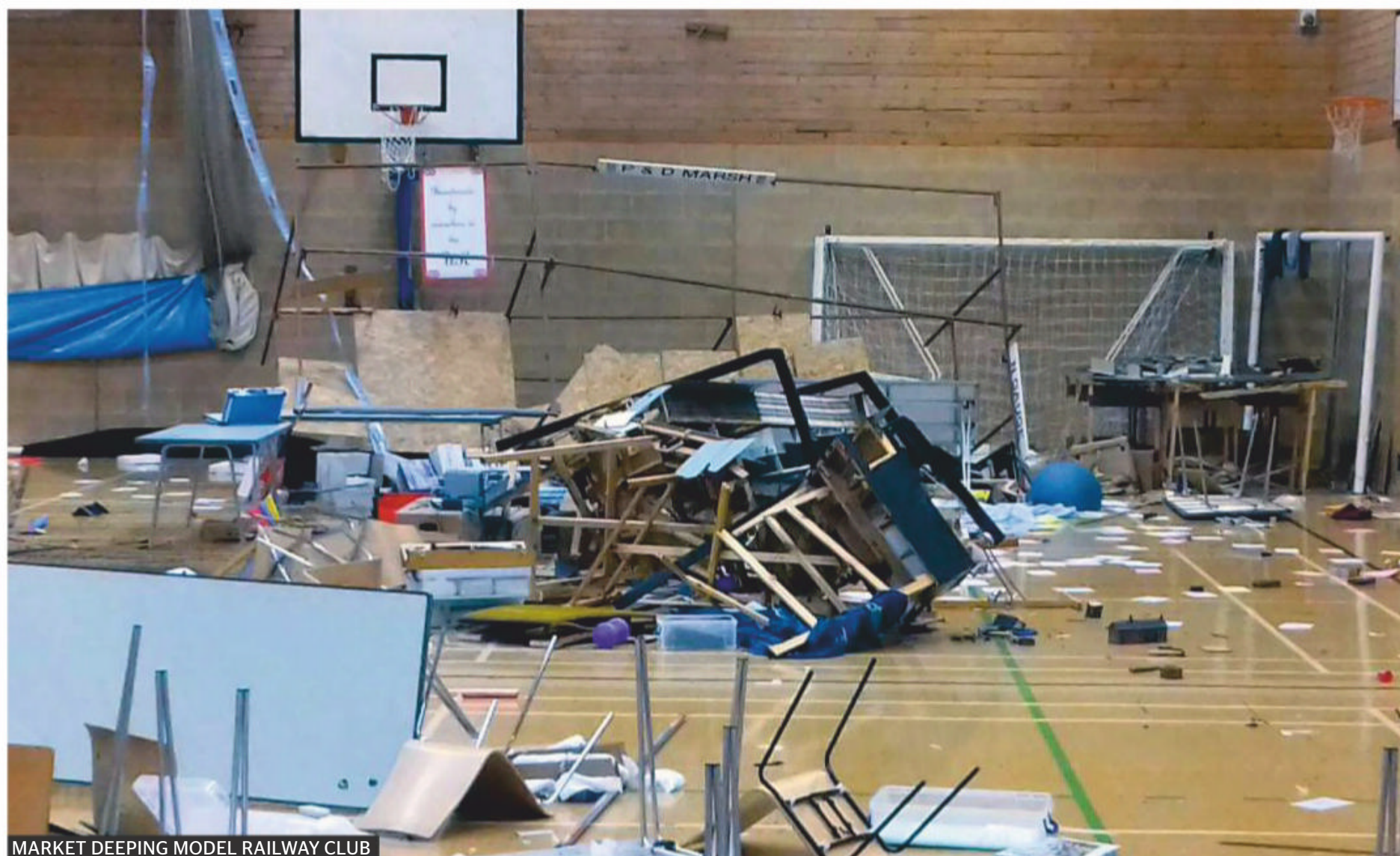
Club nights: Monday evenings (Tuesday evenings following Bank Holidays)

Membership fee: Adult £40

Web: www.mdmrc.org

On the morning of Saturday May 18, members of the Market Deeping Model Railway Club arrived at Stamford Welland Academy expecting to enjoy the day hosting its annual Stamford Show. They were met with a scene of utter destruction.

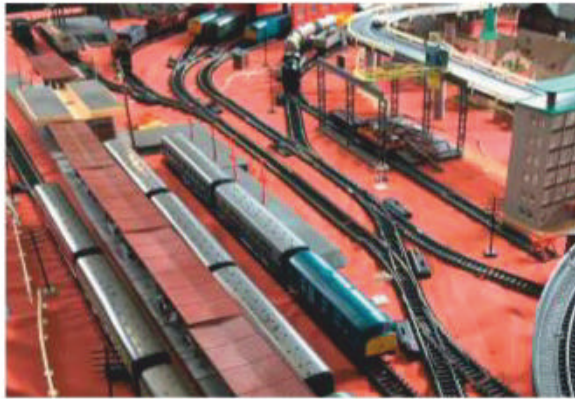
Chairman Peter Davies takes up the story: “To walk into the hall and see baseboards



MARKET DEEPING MODEL RAILWAY CLUB

Date for the diary

This year's National Festival of Toy Trains will feature a 12ft by 6ft layout incorporating every item of PlayCraft Railways produced in the 1960s. The event in Alresford takes place on June 15 and coincides with an event at the nearby Watercress Line, which is holding its annual 'War on the Line' weekend. Also at the show will be 20 other vintage layouts covering a variety of scales. For more information, visit www.alresford-toy-trains.org.uk



Double show

Two museums and the Newcastle Centre of The Stephenson Locomotive Society (SLS) are to stage specially themed model railway exhibitions as part of their annual programmes.

The first is at the Stephenson Railway Museum and North Tyneside Steam Railway and will feature eight model railways, as well as the museum's own 'Willington Waggonway Wash Pond' diorama, created after the rescue of and research into the remains of the first standard gauge railway.

This takes place at the Stephenson

Railway Museum on June 8-9, 1100-1600, admission free.

The second event is at Beamish - The Living Museum of the North. The show will feature seven model railways and a selection of photographs will be projected onto a big screen.

This takes place on June 29 (1000-1700) and June 30 (1000-1600) at the Beamish Museum. Normal admission prices apply, but entry is free to Beamish members.

For more information, visit www.stephensonrailwaymuseum.org.uk or www.beamish.org.uk

Letters



Horses by rail

Peter Natt

I have just read George Dent's article in the February 2019 issue of *Model Rail* (MR257) about finding an old horsebox while riding in Cumbria. I used to ride my horse Bob past a bungalow which I later discovered was made from two railway carriages. Until recently, you could see the etched glass windows with 'No Smoking' on them. Sadly vandals have now smashed them.

Apparently the two coaches were delivered on a low-loader from nearby Buntingford Station, which was still open at that time. One of the local horse-drawn carriage drivers had a horse delivered by rail many years ago, and he said it was one of the last times that a horse was transported by rail.

Our hamlet features a field called 'Holiday Field'. It was given this name because they used to bring the horses up from the marshalling yards in London for a rest before they were sold on. The farm opposite to me (Manor Farm) used to transport their hay to Stevenage Station and it was then taken down to London to feed the working horses.

'Conflat' critics

Geoff Brown

I note that you are critical of the Bachmann 'Conflat' in your MR259 review (January 2019), because the 'Conflat' has not been modified for the revised fixings on the container.

Perhaps more importantly for those seeking an accurate model, the chassis, like many other wagon models, is incorrect. The brake gear, axle boxes and W irons are clearly different to those on the prototype wagon. It might be a bit more correct if it had an axle box tiebar, but to the best of my knowledge no wagon ran like the model!

Caption that pic!

You've been busy on social media coming up with barmy suggestions to caption the photograph (right) that featured in last month's issue. The reader that made us chuckle the most was **Sadie Godiva**, so congratulations! This month we want you to caption the picture (below) from 'Bosun's Wharf' (page 70). Keep an eye on our social media pages for more pictures to caption - but remember, it's just for fun!

Last month's responses

"Careful Phil, they seem to be building up on your side."

Jordan Wootton

"I really don't want to have to empty all those wagons... are you sure you can't see my wedding ring on the ground? She'll kill me!"

Dave Capelen

"How many more times Fred - you can't play pooh sticks with the 1050 express."

Paul Andrews

"Stop sticking your ore in!"

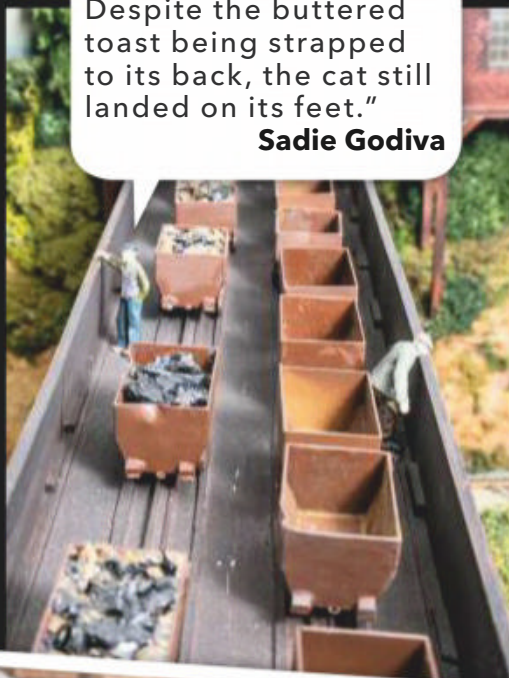
Gaugemaster Controls

"Did Dai drink too much again last night? Ah well, it'll be good for the flowers..."

Jaimie Short

"You were right, Harry. Despite the buttered toast being strapped to its back, the cat still landed on its feet."

Sadie Godiva



Show & Tell

The place to share your projects with the *Model Rail* community.

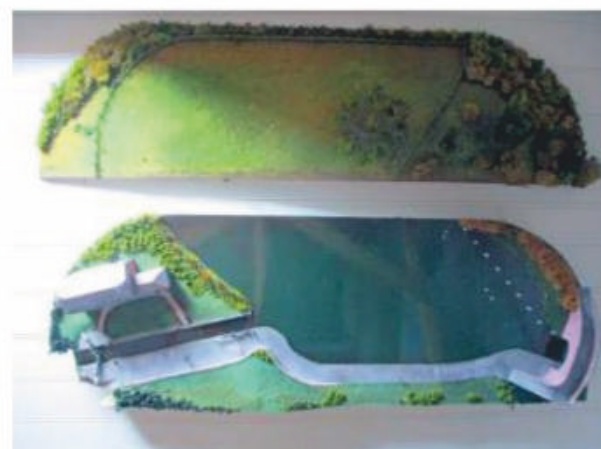
Cutting corners

David Butler

Space, or the lack of, is a problem encountered by most railway modellers, so I thought readers might be interested in my solution.

The corner of my layout doubles as a work area. However, it detracts from the overall look. Initially, I constructed a lightweight portable 'hillside scene' to 'fill the gap', using foamboard and polystyrene as base materials. I then wanted a canal scene somewhere, and I realised that I could do so in the same area, using the same lightweight materials.

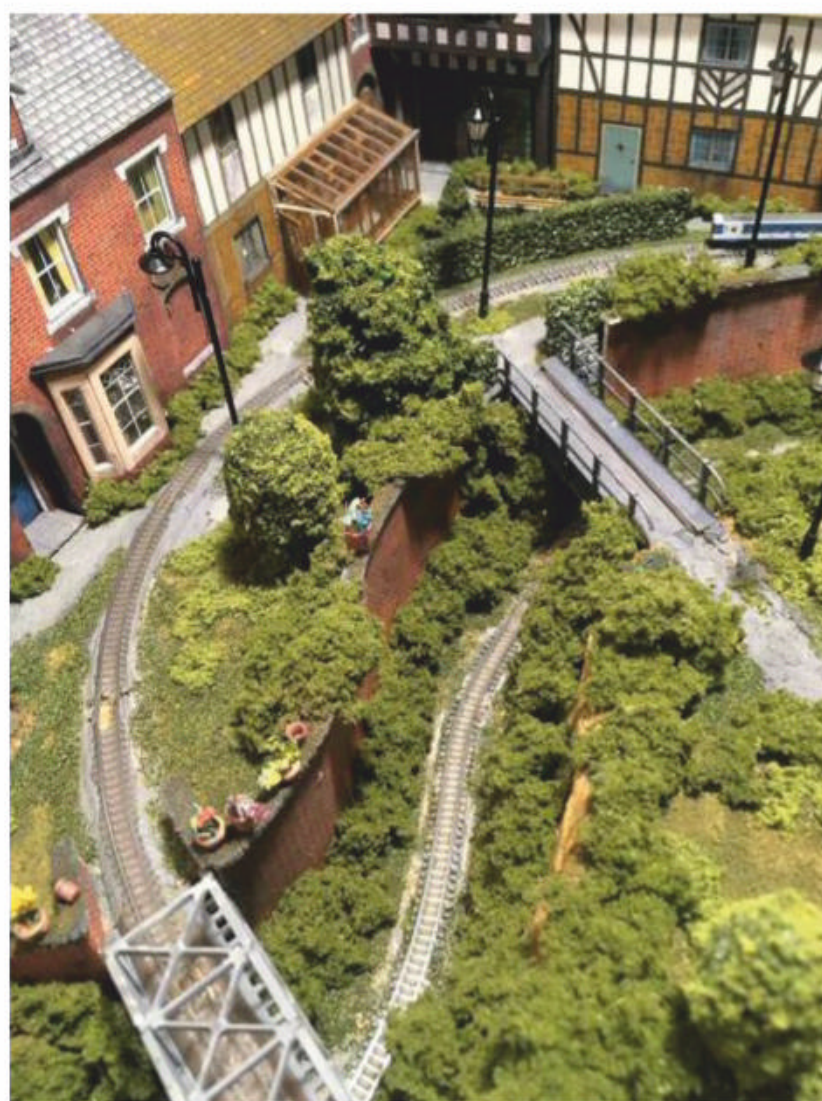
The scenes are interchangeable and just lift off when I need to use the space.



Garden variety

Peter Sissons

I thought I would do something a little bit different with my layout. I've made a garden railway in 'OO' gauge, but rather than having it run in my garden I have depicted a garden on the layout. I've used 'OO' gauge buildings and landscaping but used track and models in 'T' scale so looks as though there is a miniature railway running through the landscape.



Exhibition Diary

What's on in your neck of the woods this month

JUNE 15

ALRESFORD, HANTS. National Festival of Toy Trains. Perins School, Alresford SO24 9BS. **Time:** 1030-1630. **Admission:** Adult £6, Family £14. **Tel:** 01962 733475. **Web:** www.alresford-toy-trains.org.uk

DIDCOT, OXFORDSHIRE. 175th Anniversary. Events at five stations: Didcot, Appleford, Culham, Radley, Oxford. **E-mail:** info@didcotoxfordgwr175.org **Web:** www.didcotoxfordgwr175.org

GAINSBOROUGH, LINCS. Gainsborough MRS MRE. Florence Terrace, Gainsborough DN21 1BE. **Time:** 1330-1730. **Admission:** Adult £4, Senior £3, Family £10. **Tel:** 01427 610475. **Web:** www.gainsboroughmodelrailway.co.uk

HUCCLECOTE, GLOUCESTER. Hucclecote Methodist Church, Carisbrooke Road, Hucclecote, Gloucester GL3 3QP. **Time:** 1000-1700. **Admission:** Adult £5. **E-mail:** info@hucclecotemc.org.uk **Web:** www.hmcmrs.org.uk

WEXFORD, IRELAND. Wexford MRC First O gauge open day. WMRC Clubhouse, St Joseph's Community Centre, Bishopswater, Wexford. **E-mail:** wmrcehibitionmanager@gmail.com

JUNE 15-16

COATBRIDGE, LANARKSHIRE. Summerlee Museum of Scottish Industrial Life, Heritage Way ML5 1QD. **Time:** Sat 1000-1700, Sun 1000-1600. **Tel:** 01236 638460. **Web:** www.culturenl.co.uk

JUNE 16

LEISTON, SUFFOLK. The Long Shop Museum MRS. Main St, Leiston IP16 4ES. **Time:** 1000-1600. **Admission:** Adult £8, Child £4. **Tel:** 01728 832189.

JUNE 22

KINGS LYNN, NORFOLK. Kings Lynn MRC, Lynnsport, Greenpark Avenue PE30 2NB. **Time:** 1030-1630. **Admission:** Adult £5, Child £2. **Tel:** 07751 443811. **E-mail:** spanner.spence@yahoo.co.uk

SOUTHAMPTON. The Southampton MRS AND Wessex N Gauge Group Open Day. Unit 1b, 3b, 5b & 6b Kemps Quay Industrial Park, Quayside Rd SO18 1BZ. **Time:** 1030-1600.

TWICKENHAM, MIDDX. Twickenham MRC MRE. Twickenham Library, Garfield Road, Twickenham TW1 3JT. **Time:** 1000-1530. **Tel:** 01932 783253. **Web:** www.tdmrc.org.uk

WEST CAMEL, SOMERSET. West Camel MRS Show. Davis Hall, West Camel, nr Yeovil, Somerset BA22 7QX. **Time:** 1000-1530. **Admission:** Adult £4, Child £1. **E-mail:** charliebishop@hotmail.co.uk

JUNE 29

BRAINTREE, ESSEX. Braintree & Halstead MRC MRE. Bocking Arts Theatre, Braintree Town Centre CM7 9AE. **Time:** 1000-1600. **Admission:** Adult £4, Child £2, Family £10. **Web:** www.braintree-halsteadmrc.co.uk

JUNE 29-30

BEAMISH. The Regional Resource Centre, Beamish Museum DH9 0RG. **Time:** Sat 1000-1700, Sun 1000-1600. **Tel:** 0191 370 4000. **Web:** www.beamish.org.uk

PERTH. Perth and District MRE. Dewars Centre, Glover St, Perth PH2 0TH. **Time:** Sat 1000-1730, Sun 1000-1700. **Admission:** Adult £9, Child £4, Family £20.

JULY 6

BEACONSFIELD, BUCKS. Beaconsfield & District MRC MRE. The Beaconsfield School, Wattleton Road, Beaconsfield, Bucks HP9 1SJ. **Time:** 1030-1700. **Admission:** Adult £5, Child £2.50. **Tel:** 01753 643724. **Web:** www.beaconsfieldmrc.org

JULY 6-7

BARRY, SOUTH WALES. Barry and Penarth MRC MRS. St Cyres School, Sully Road, Penarth CF64 2TP. **Time:** Sat 1000-1630, Sun 1000-1600. **Admission:** Adult £5, Child £3. **Tel:** 07766 732805. **E-mail:** bpmrc@outlook.com

CONWY, NORTH WALES. North Wales Area Group N Gauge Society. Ysgol Porth y Felin, Llanrwst Road, Conwy LL32 8FZ. **Time:** Sat 1000-1700, Sun 1000-1600. **Admission:** Adult £5, child £1, Family £10. **Tel:** 07703 393900. **E-mail:** athoath@ntlworld.com

LAINDON, ESSEX. Basildon MRC MRE. James Hornsby School, Leinster Road, Laindon SS15 5NX. Sat 1000-1700, Sun 1000-1600. **Admission:** Adult £5, Senior £3, Child/Senior £2, Family £12. **Tel:** 01268 574884.

WARRINGTON, CHES. Thelwall & Grappenhall MRC, Grappenhall Community Centre, Bellhouse Lane, Warrington WA4 2SG. **Time:** 1200-1600. **Admission:** Adult £1.50, Child 50p. **Web:** www.tgmrc.org

JULY 7

ASHMANHAUGH, NORWICH. Ashmanhaugh Light Railway. East View Farm, Stone Lane, Ashmanhaugh. **Time:** 1400-1700. **Web:** www.ashmanhaughlightrailway.co.uk

BROMLEY, KENT. Rusper MRC Meeting www.ruspermrc.co.uk

KEIGHLEY, BRADFORD. Keighley MRC Summer Show. Knowle Mills, South St, Keighley BD21 1SY. **Time:** 1000-1630. **Admission:** Adult £3.50, Child £2.50.

JULY 13

HEYWOOD, LANCS. HMRG Open Day. Club Rooms, Unit 4, Park Works, River Street, Heywood OL10 4AB. **Time:** 1000-1600. **Web:** www.hmrg.co.uk

HODDESDON, HERTS. The Friends of Robert Barclay Academy MRE. The Robert Barclay Academy, Cock Lane, Hoddesdon EN11 8JY. **Time:** 1030-1630. **Admission:** Adult £4.50, Concession £3, Family £12. **Tel:** 07866 641215.

HOUNSLOW. Twickenham & District MRC Open Day. Kerswell Hall, Wills Cres, Hounslow TW3 2JF. **Time:** 1000-1600. **Tel:** 01784 459104. **Web:** www.tdmrc.org.uk

JULY 13-14

HUNSLET, LEEDS. Middleton Railway MRE, The Station, Moor Road, Hunslet LS10 2JQ. **Time:** 1000-1700 both days. **Admission:** Adult £5.50/8.50, Child £2.50/3.50, Family £14/20. **Tel:** 01274 613687. **E-mail:** ian.dobson9015@btinternet.com

JULY 20

FELIXSTOWE, SUFFOLK. N Gauge

Society WWG Convention. Trinity Methodist Church, Orwell Rd, Felixstowe IP11 7AN. **Time:** 1000-1600. **Admission:** £3.

STIBBARD, NORFOLK. Stibbard Village Hall & Methodist Church Model Railx, Guist Bottom Road, Stibbard, Fakenham NR21 0AQ. **Time:** 1000-1600. **Admission:** Adult £4, Concession £3.50, Family £12. **Tel:** 01328 829185. **E-mail:** bert_etherington@msn.com

JULY 20-21

CUPAR, FIFE. Cupar & District MRC MRE. The Corn Exchange, St Catherines, Cupar, Fife KY15 4BT. **Time:** 1000-1630. **Admission:** Adult £4.50, Child £2.50, Family £12. **Web:** www.cuparmrc.co.uk

STRETTON, BURTON ON TRENT. Claymills Victorian Pumping Station, Meadow Lane, Stretton DE13 0DA. **Time:** 1000-1600. **Admission:** Adult £4, Concession £3.

JULY 21

GAINSBOROUGH, LINCS. Gainsborough MRS MRE. Florence Terrace, Gainsborough DN21 1BE. **Time:** 1330-1730. **Admission:** Adult £4, Senior £3, Family £10. **Tel:** 01427 610475. **Web:** www.gainsboroughmodelrailway.co.uk

JULY 27

BRIDPORT, DORSET. Bridport & District MRC MRE. Sir John Colfox Academy, Ridgeway, Bridport DT6 3DT. **Time:** 1000-1600. **Admission:** Adult £5, Child £1. **Tel:** 01308 861754. **E-mail:** r_ahrens@outlook.com

JULY 27-28

COLWYN, LLANDUDNO. Colwyn MRC MRE. Craig y Don Community Centre, Queens Rd, Craig Y Don LL30 1TE. **Time:** Sat 1000-1700, Sun 1000-1600. **Admission:** Adult £4, Child £3. **Tel:** 07714 237248. **Web:** www.colwynmodlerailwayclub.co.uk

NEW MILTON, HANTS. South Coast MRC MRE. The Arnewood School, Gore Road, New Milton BH25 6PQ. **Time:** Sat 1030-1700, Sun 1000-1600. **Admission:** Adult £5, Child 33.50, Family £15.

STOKE ON TRENT. St Johns Charity Exhibition. St John's Primary School, Wheatley Avenue, Trent Vale ST4 6SB. **Time:** Sat 1030-1700, Sun 1030-1630. **Admission:** Adult £5, Child £2, Family £11. **Tel:** 07747 087050. **E-mail:** jrf.cox@hotmail.co.uk

AUGUST 3

MINEHEAD, SOMERSET. Exmoor Coast Railway Modellers. The Minehead Eye, Mart Road, Minehead TA24 5BJ. **Time:** 1000-1630. **Admission:** Adult £6, Child £2, Family £13. **Tel:** 01643 706736. **E-mail:** nelhams1@tiscali.co.uk

AUGUST 3-4

REDCAR, CLEVELAND. Cleveland MRC Redcar Model Rail 2019. Redcar & Cleveland College, Corporation Road, Redcar TS10 1EZ. **Time:** Sat 1000-1700, Sun 1000-1600. **Admission:** Adult

£4, Child £3.50, Family £13.50. **E-mail:** enquiries@clevelandmrc.org.uk **Web:** www.clevelandmrc.club

AUGUST 4

ASHMANHAUGH, NORWICH. See July 7.

BROMLEY, KENT. Rusper MRC Meeting www.ruspermrc.co.uk

AUGUST 8

WELLING, KENT. The Association of Bexley Charities Toy and Train Fair. Falconwood Community Centre, The Green, Welling DA16 2PG. **Time:** 1730-2130. **Admission:** Adult £1.50. **Tel:** 020 8310 5018. **Web:** www.bexleych.wix.com

AUGUST 10

BEXHILL, KENT. St Richards Catholic College, Ashdown Road, Bexhill-on-Sea. TN40 1SE. **Time:** Sat 1000-1700. **Admission:** Adult £5, Concession £5, Child £2, Family £12. **Web:** www.bexhillmrc.org.uk

HEYWOOD, LANCS. See July 13.

AUGUST 10-11

Railwells 2019. **Time:** Sat 1030-1730, Sun 1000-1630. **Admission:** Adult £7, Child/Wheelchair bound £4. **Web:** www.railwells.com

WEST PADDOCK, LEYLAND. Leyland MRC MRE. West Paddock, Leyland Civic Centre PR25 1DH. **Time:** Sat 1000-1700, Sun 1000-1630. **Admission:** Adult £5, Child £3.50, Family £13.50. **Tel:** 07796 130295.

AUGUST 17

MILTON KEYNES. Silverfox MRC MRE. Oakgrove School, Venturer Gate, Milton Keynes MK10 9JQ. **Time:** 1000-1600. **Admission:** Adult £6, Child £2. **Web:** www.silverfoxdcc.org

AUGUST 17-18

CRICH, DERBYSHIRE. Model Tram, Trolleybus, Bus and Railway Exhibition. The National Tramway Museum, Crich Tramway Village, Crich DE4 5DP. **Time:** 1000-1700 (both days). **Tel:** 01773 854321. **Web:** www.tramway.co.uk

LEICESTER. Leicester MRG MRE. St Margaret's Church, St Margaret's St, Leicester LE1 3EB. **Time:** Sat 1030-1700, Sun 1300-1600. **Admission:** Donation.

MARGATE, KENT. Hornby Hobbies Visitor Centre. The 1:1 Collection Open Weekend. Hornby Visitor Centre, Westwood Industrial Estate, Margate, Kent, CT9 4JX. **Time:** 1000-1600. **Tel:** 01843 233500. **Web:** www.hornbyhobbies.co.uk

PICKERING, YORKS. Scarborough and District Railway Modellers. The Memorial hall, Potter Hill, Pickering YO18 8AA. **Time:** Sat 1000-1700, Sun 1000-1600. **Admission:** £5. **Web:** www.sdrmmweb.co.uk **E-mail:** exhibition@sdrmmweb.co.uk

ROSS ON WYE. Ross On Wye MRE. John Kyrle High School, Ledbury Rd, Ross on Wye HR9 5HT. **Time:** Sat 1000-1700, Sun 1000-1630. **Admission:** Adult £4, Child £3, Family £10. **Tel:** 01594 543330. **E-mail:** briancole06@btinternet.com

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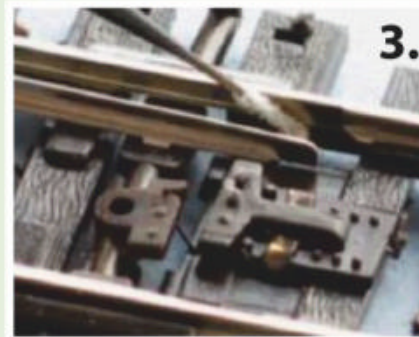
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POINTS

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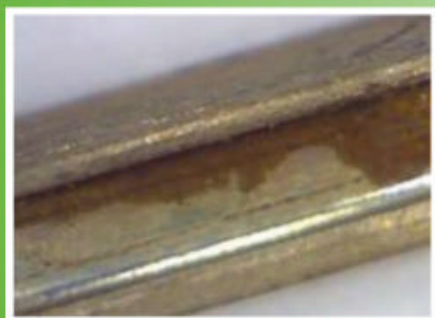


CONTACTS

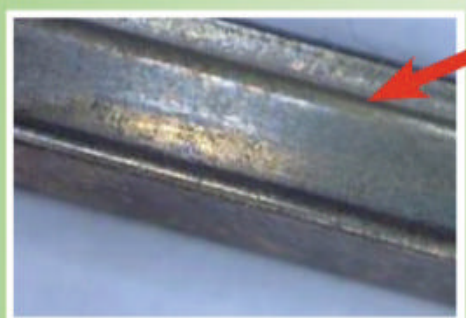
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L&Y/LMS/BR Pug 0-4-0T.....from £525.00
GWR/BR 1361 0-6-0ST.....from £695.00
GWR/BR 8750 Pannier tank.....from £695.00
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GWR/BR Parcels railcar.....£810.00
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Over 100 R-T-R locos available off the shelf

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GTR20 LMS/BR Princess.....£425.00
GTR21 LMS/BR Rebuilt Royal Scot.....£365.00
GTR24 LMS/BR Original Patriot.....£365.00
GTR25 LMS/BR Rebuilt Patriot.....£355.00
GTR28 LMS/BR 2P 4-4-0.....£300.00
GTR36 LBSC/SR/BR H2 Atlantic.....£380.00
GTR50 LNER/BR Beyer Garratt 2-8-8-2.....£635.00
GTR55 LMS/BR 2-8-0 Stanier 8F.....£365.00
GTR61 LBSC/SR/BR H1 Atlantic.....£380.00
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FT6 LNER/BR B16/1 4-6-0.....£365.00
FT9 NER/LNER/BR G6/BTP 0-4-4T.....£220.00

JAVELIN LOCOMOTIVE KITS

JLK6 G.W.R Dean Goods 0-6-0.....£315.00

MERCIAN LOCO KITS

SG5 LNER/BR J94 Austerity 0-6-0ST ..£180.00
G26 GWR/BR 14xx Autotank.....£175.00

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Includes wheels, gears and motor

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TC6 LMS/BR Sir William Stainer.....£550.00
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7064 B.R 12ton Standard/Flat Van.....£38.00
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ST725 Half circle 1028mm radius curves..£48.75
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STU751BH L/H Setrack Point.....£41.95
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PL19 Microswitch Housing (2).....£4.60
PL80 Power Feed.....£7.10

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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
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H9 S.R. Maunsell loco and coach lettering.£20.00
H10 S.R. Bulleid loco and coach lettering.£20.00
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H12 L.N.E.R. goods wagon lettering.....£18.50
H13 S.R. goods wagon lettering.....£18.50
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H17 LTSR/MR/SD/LY/MCR gds lettering...£20.00
H18 N.E.R. loco and coach lettering.....£21.00
H20 CB/NB/GSWR/HR/GNSR wgn lettering£20.00
H22 B.R. mixed traffic/L.N.W.R. loco lining £20.00
H24 MR/SDJR/LTSR/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
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PS16 LNER Loco Coal wagon.....£33.00
PS17 BR 12 ton Pipe wagon.....£33.00
PS23 GWR/BR 13 ton open wagon.....£33.00
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PS25 BR 24.5 ton mineral wagon.....£33.00
PS26 GWR/BR 12 ton fitted van.....£33.00
PS27 GWR/BR 12 ton open with tarp bar £33.00
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PS29 GWR/BR Fruit van.....£33.00
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0-4-2T G.W.R or B.R
Available in various G.W.R & B.R liveries, autofitted or not, numbered or un-numbered, basic, DCC or DCC sound fitted.
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Sound fitted RRP £400.00 OUR PRICE £345.00
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Fully finished superb quality with interior details and lights.
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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
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HJ2593 B.R. Blue with chevrons
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Limited Re-run Four liveries planned
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CENTRE HEAD CODE VERSION
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B.R. Blue with yellow ends
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Light green with speed whiskers
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List Price £495.00
SPECIAL OFFER £299.95

NEW HELJAN CLASS 52

Four versions remaining
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NEW HELJAN CLASS 50

7 liveries AVAILABLE LATE 2019
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HELJAN CLASS 25/1

Green full yellow ends
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G.U.V available B.R, Parcels red, Express Parcels blue or S.R green
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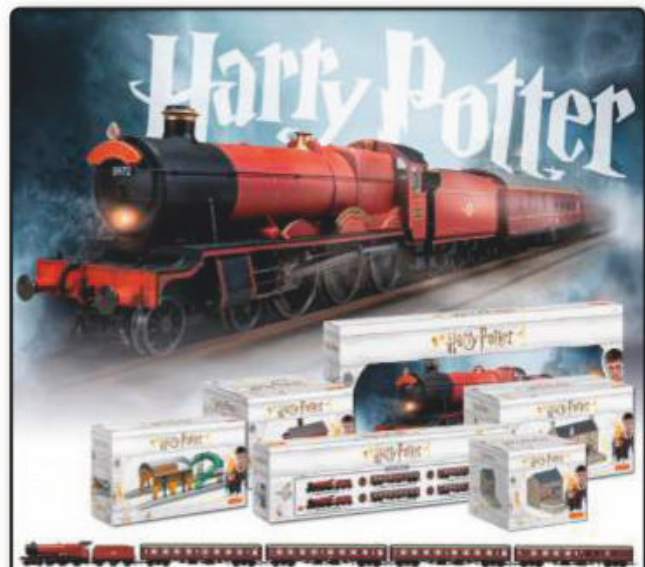
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THIS MONTH AT

Compiled between 20th April and 23rd May 2019

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Latest News



Hornby Harry Potter Range

Due between May and October, Hornby are releasing a selection of buildings as well as the famous Hogwarts Express.

www.hattons.co.uk/tmah24



British Rail Class 47 Guide

Read the complete history and see every livery carried by the British Rail Class 47, the largest class of mainline diesel in the UK.

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Dapol Class 86 Latest Batch

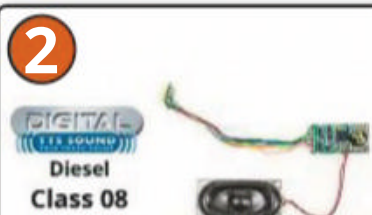
The latest of Dapols N Gauge Class 86 have now arrived with versions covering liveries throughout the locomotives history.

www.hattons.co.uk/tmah29

Top 5 Best Sellers



Atlas Editions
4642101 - £3.50



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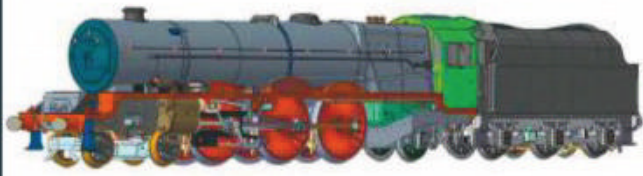
Forthcoming Releases from Hornby & Dapol

All available to pre-order now at: www.hattons.co.uk

HORNBY® 2019 Range Announcement - see details at www.hattons.co.uk/hornby2019

LMS Princess Royal 4-6-2

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Due in Stock February 2020



R3709 6201 "Princess Elizabeth" in LMS crimson lake
R3711 46206 "Princess Marie Louise" in BR express passenger blue
R3713 46207 "Princess Arthur of Connaught" in BR maroon

Class 5101 'Large Prairie' 2-6-2T

Pre-order from £126. DCC-fitted £144
Due in Stock August/September 2019



R3719 4154 in GWR green
R3721 6110 in GWR green
R3723 6145 in BR black with early emblem
R3725 4160 in BR lined green with late crest

4wDM Ruston 48DS

Pre-order for £72
Due in Stock August 2019



R3704 269595 in pale green
R3705 458957 in John Dewar and Sons red
R3706 Army 802 in War Department green
R3707 "Queen Anne" in Longmorn Distillery livery

Class B2 Peckett 0-6-0ST

Pre-order from £99. DCC fitted for £117
Due in Stock June 2019



R3693 No.4 "Sherwood" in Sherwood Colliery lined green
R3694 "Westminster" in Associated Portland Cement green
R3695 1455 in National Coal Board lined blue

Mk3 Sliding Door coaches

Pre-order for £31.50 each
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36 versions now available to pre-order. Liveries include: GWR, ScotRail and Cross Country. Numerous vehicle types available to allow prototypical formations.

Mk2F "Aircon" coaches

Pre-order for £31.50 each
Due in Stock June to November 2019



17 variations now available to pre-order. Liveries include: ScotRail 'saltire', Network Rail, BR blue and grey & Intercity Swallow. Numerous vehicle types available to allow prototypical formations.

dapol Forthcoming Items

See the full range of forthcoming items from Dapol at www.hattons.co.uk/dapolpreorders

N Gauge

Class 50

Pre-order from £123.21
Due in Stock: August 2019



2D-002-000 D406 in BR blue - unrefurbished
2D-002-001 50043 in BR blue - unrefurbished
2D-002-002 50040 "Leviathan" in BR large logo blue
2D-002-003 50037 "Illustrious" in original Network SouthEast livery

Class 67

Pre-order from £108.76
Due in Stock: July 2019



2D-010-008 67006 "Royal Sovereign" in Royal Trail livery
2D-010-009 67027 "Charlotte" in Colas Rail Freight livery
2D-010-010 67021 in Belmond British Pullman umber and cream
2D-010-010 67029 "Royal Diamond" in DB silver

OO Gauge

Class 43xx GWR Mogul 2-6-0

Pre-order from £135.96
Due in Stock: Dec 2019



4S-043-001 6336 in GWR green with Great Western lettering
4S-043-002 6385 in GWR green with shirtbutton emblem
4S-043-003 GWR green with BR smokebox numberplate
4S-043-004 7324 in BR black with early emblem
4S-043-005 6364 in BR lined green with early emblem
4S-043-006 7310 in BR lined green with late crest

Class 59

Pre-order from £124.43
Due in Stock: August/September 2019



4D-005-000 59002 "Alan J Day" in Foster Yeoman livery
4D-005-001 59103 "Village of Mells" in ARC livery
4D-005-002 59206 "John F Yeoman" in DB Schenker livery
4D-005-003 59204 "Vale of Glamorgan" in National Power livery

O Gauge

Class Y3 Sentinel 4wVB

Pre-order from £148.75
Due in Stock: July/August 2019



7S-005-001 42 in LNER black
7S-005-002 68163 in LNER black
7S-005-003 7164 in LMS black
7S-005-004 7160 in LMS black
7S-005-005 68164 in BR black with early emblem
7S-005-006 2 "Isebrook" in GWR green
7S-005-007 14 in National Coal Board livery

BR Mark 1 coaches

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	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
Mk2F Aircon Coaches	hattons.co.uk/mk2f	from £46.71	Mar 2013							
Class 90	hattons.co.uk/c90	from £152.96	Jul 2014							
Class 117 DMU	hattons.co.uk/c117	£254.96	Sep 2015							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
YCV Turbot Ballast wagon	hattons.co.uk/tur	£21.21	Apr 2014							
N Gauge Class 142	hattons.co.uk/c142	from £115.18	Jan 2011							
Bogie Bolster 'E' wagon	hattons.co.uk/bolstere	£25.45	Sep 2018							
Class 59	hattons.co.uk/dapol59	from £124.43	Oct 2015							
GWR Class 43xx 2-6-0	hattons.co.uk/dapol43xx	from £135.96	Dec 2017							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
Rail Head Treatment Train (RHTT)	hattons.co.uk/RHTT	from £118	Nov 2017							
FEA Intermodal Wagons	hattons.co.uk/FEA	from £32	Nov 2017							
O Gauge Class A3/A4	hattons.co.uk/recordbreakers	£750	Aug 2016							
Class 66	hattons.co.uk/66	from £150	May 2018							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
O Gauge Class 50 (Refurbished)	hattons.co.uk/hel50	£560	Apr 2017							
O Gauge Class 37/4	hattons.co.uk/hel374	£560	Nov 2017							
Class 86/0	hattons.co.uk/hel86	£161.46	Nov 2018							
Class 25/3	hattons.co.uk/253	£129 (EST)	Jul 2018							
GWR AEC Railcar	hattons.co.uk/gwraec	£160.65	Sep 2018							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
Class A1/A1X Terrier 0-6-0T	hattons.co.uk/hornbyterrier	from £81	Jan 2019							
Peckett B2 Class 0-6-0ST	hattons.co.uk/peckettb2	from £89	Jan 2019							
4wDM Ruston & Hornsby 48DS	hattons.co.uk/ruston48ds	£72	Jan 2019							
LMS 'Princess Royal' 4-6-2	hattons.co.uk/princessroyal	from £171	Jan 2019							
GWR 'Large Prairie' 2-6-2T	hattons.co.uk/hornbyprairie	from £126	Jan 2019							

	Link	Price	Date announced	CAD done	In Tooling	Seen 1st EP	Decorated samples	In production	On Board Ship	Released
GER/LNER Class N7 0-6-2T	hattons.co.uk/oxN7	from £87	Jan 2017							
BL 18" Howitzer Railgun	hattons.co.uk/railgun	from £42.50	Jan 2018							
LNER Class J27 0-6-0	hattons.co.uk/oxj28	from £94	Jan 2019							

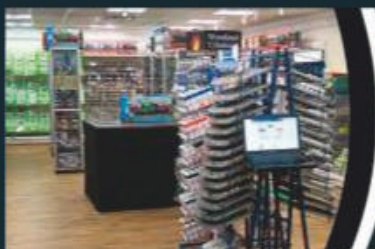


Shows the stage the project is at based on the information available to us. CAD: Computer Aided Design. 1st EP: First Engineering Prototype. TBC: Price is yet To Be Confirmed (EST): Price is estimated.

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 24/05/19.



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T: 0151 733 3655 E: info@hattons.co.uk

Est. 1946

OO Gauge (1:76 Scale) Steam locos



R3612 80th Anniversary of World Steam Record pack gold-plated Class A4 4468 "Mallard" and commemorative box set (Hor)... £184



H4-AB14-004 Andrew Barclay 0-4-0ST 14" 1863 in Caledonian Railway lined blue (Hat)... £99



H4-AB14-006 Andrew Barclay 0-4-0ST 14" 2069 "Little Barford" in Acton Lane Power Station blue wasp stripes (Hat)... £99



H4-AB16-002 Andrew Barclay 0-4-0ST 16" 2043 'No 6' in NCB green (Hat)... £99



H4-AB16-003 Andrew Barclay 0-4-0ST 16" 2226 "Katie" in lined maroon (Hat) (RRP £99) BARGAIN... £89



R3525 Battle of Britain Class (Air Smoothed) 4-6-2 S21C159 "Sir Archibald Sinclair" in British Railways malachite green (Hor)... £149



R3292 Class 0F Pug 0-4-0ST 56011 in BR black - Hornby 2014 Collectors Club special edition (Hor) (RRP £24.99) BARGAIN... £14.50



R3213 Class 101 Holden 0-4-0T 3102 in SR Olive Green - Hornby 2013 Collectors club limited edition (Hor) (RRP £24.99) BARGAIN... £16



1301 Class 1361 0-6-0ST 1363 in GWR green shirtbutton emblem (Hel)... £135.96



H1415 Class 14xx 0-4-2T 1432 in BR Lined green late crest - Heavily weathered (DJ) (RRP £99) BARGAIN... £74



H1409 Class 14xx 0-4-2T 1470 in BR Lined black early emblem (DJ) (RRP £99) BARGAIN... £74



OR76DG002 Class 2301 Dean Goods 0-6-0 2409 in BR Black early emblem (Oxf) (RRP £112.95) BARGAIN... £74



32-236 Class 3F 'Jinty' 0-6-0T 47619 in early British Railways black (Bac) (RRP £109.95) BARGAIN... £74.50



32-227DS Class 3F Jinty 0-6-0T 7365 in LMS black - DCC sound fitted (Bac) (RRP £214.95) BARGAIN... £168



R3455 Class 4000 "Star" 4-6-0 4013 "Knight of St Patrick" GWR Green (Hor) £127



OR76AR006 Class 415 Adams Radial 4-4-2T 3520 Southern Railway green (Oxf)... £88



4781 Class 47xx 2-8-0 "Night Owl" 4705 in GWR green Great Western lettering (Hel)... £154



4785 Class 47xx 2-8-0 "Night Owl" 4709 in BR lined green late crest - as preserved (Hel)... £154



H1403 Class 48xx 0-4-2T 4871 in GWR Unlined green Shirtbutton logo - Lightly weathered (DJ) (RRP £99) BARGAIN... £89



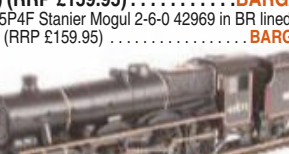
30-525loco Class 49xx "Hall" 4-6-0 4965 "Rood Ashton Hall" in Great Western green - split from 30-525 set (Bac)... £79



32-078 Class 56xx 0-6-2T 5637 in GWR green (Bac) £97.71



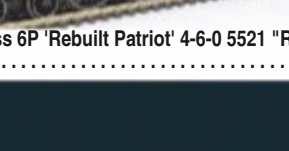
32-083A Class 56xx 0-6-2T 6644 in BR green late crest - weathered (Bac) (RRP £119.95) BARGAIN... £94



H1407 Class 58xx 0-4-2T 5802 in GWR Unlined green GWR lettering - Lightly weathered (DJ) (RRP £99) BARGAIN... £89



H1410 Class 58xx 0-4-2T 5819 in BR Unlined black early emblem (DJ) (RRP £99) BARGAIN... £74



R3616 Class 5MT "Black Five" 4-6-0 5089 in LMS black (Hor)... £153

31-690 Class 5P4F Stanier Mogul 2-6-0 2965 in LMS lined black (Bac) (RRP £159.95) BARGAIN... £106

31-691 Class 5P4F Stanier Mogul 2-6-0 42969 in BR lined black early emblem (Bac) (RRP £159.95) BARGAIN... £112

31-190 Class 5XP Jubilee 4-6-0 45575 "Madras" in BR black (Bac) £140.21

R3552 Class 6800 "Grange" 4-6-0 6860 "Aberporth Grange" in GWR green shirtbutton emblem (Hor)... £132

R3614 Class 6P "Rebuilt Patriot" 4-6-0 5521 "Rhyl" in LMS black (Hor)... £136



R3643 Class 7MT "Britannia" 4-6-2 70046 "Anzac" in BR green late crest (Hor)... £162



R3520 Class 7MT 4-6-2 Britannia 70007 "Coeur-de-Lion" in BR green late crest (Hor)... £154



R3618 Class 7P6F Rebuilt Battle of Britain 4-6-2 34050 "Royal Observer Corps" in BR green late crest (Hor) £144



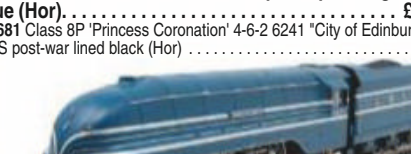
R3638 Class 7P6F Streamlined West Country 4-6-2 34019 "Bideford" in BR green late crest (Hor)... £166.50



R3565 Class 8F 2-8-0 8035 in LMS black (Hor)... £127.50



R3682 Class 8P "Princess Coronation" 4-6-2 46225 "Duchess of Gloucester" in BR express passenger blue (Hor)... £184.50



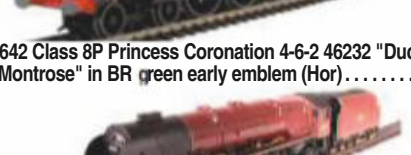
R3681 Class 8P "Princess Coronation" 4-6-2 6241 "City of Edinburgh" in LMS post-war lined black (Hor)... £184.50



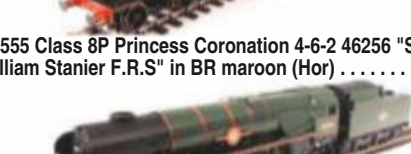
R3623 Class 8P "Streamlined Coronation" 4-6-2 6221 "Queen Elizabeth" in LMS coronation blue (Hor)... £171



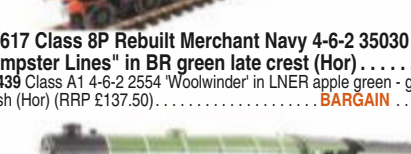
R3677 Class 8P "Streamlined Coronation" 4-6-2 6229 "Duchess of Hamilton" in LMS crimson lake - as preserved (Hor)... £171



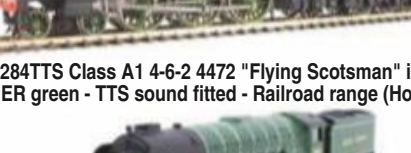
R3642 Class 8P Princess Coronation 4-6-2 46232 "Duchess of Montrose" in BR green early emblem (Hor)... £171



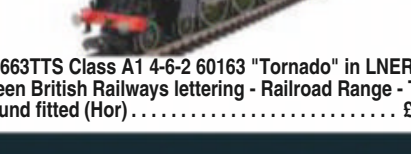
R3555 Class 8P Princess Coronation 4-6-2 46256 "Sir William Stanier F.R.S." in BR maroon (Hor)... £189



R3617 Class 8P Rebuilt Merchant Navy 4-6-2 35030 "Elder Dempster Lines" in BR green late crest (Hor)... £144



R3439 Class A1 4-6-2 2554 "Woolwinder" in LNER apple green - gloss finish (Hor) (RRP £137.50) BARGAIN... £99



R3623TTS Class A1 4-6-2 4472 "Flying Scotsman" in LNER green - TTS sound fitted - Railroad range (Hor) £114

R3663TTS Class A1 4-6-2 60163 "Tornado" in LNER apple green British Railways lettering - Railroad Range - TTS sound fitted (Hor)... £122.50



R3781 Class A1 Terrier 0-6-0T 5 "Rolvenden" in Kent and East Sussex Railway blue (Hor)... £81



R3782 Class A1 Terrier 0-6-0T 751 in South Eastern and Chatham Railway green (Hor) NEW... £81



31-531 Class A2 4-6-2 60536 "Trimbush" in BR lined green early emblem (Bac) (RRP £179.95) BARGAIN... £111



R3518 Class A3 4-6-2 108 "Gay Crusader" in LNER apple green - "The Final Day" special edition (Hor) (RRP £189.99) BARGAIN... £120



R3437 Class A3 4-6-2 2503 "Firdaussi" in LNER apple green - gloss finish (Hor) (RRP £137.50) BARGAIN... £99



R3627 Class A3 4-6-2 60103 "Flying Scotsman" in BR express passenger blue (Hor)... £162



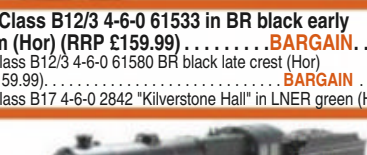
R3508TTS Class A3 4-6-2 60103 "Flying Scotsman" in BR green late crest - as preserved - TTS Sound fitted (Hor) £187



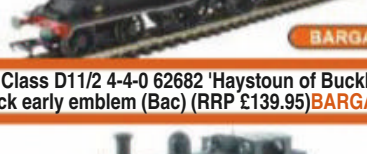
R3371 Class A4 4-6-2 4468 "Mallard" LNER garter blue - Railroad range (Hor) £94



R3395TTS Class A4 4-6-2 4468 "Mallard" in LNER Garter Blue - TTS sound fitted - Railroad Range (Hor)... £116



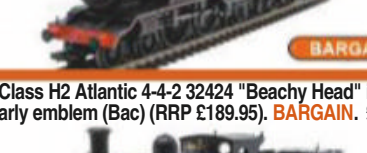
R3451 Class B1 4-6-0 61032 "Stembok" in BR black early emblem (Hor)... £148



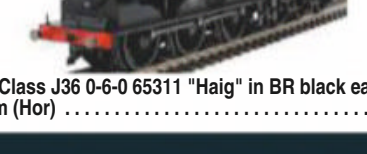
R3431 Class B12/3 4-6-0 61533 in BR black early emblem (Hor) (RRP £159.99) BARGAIN... £123



R3432 Class B12/3 4-6-0 61580 BR black late crest (Hor) (RRP £159.99) BARGAIN... £119



R3447 Class B17 4-6-0 2842 "Kilverstone Hall" in LNER green (Hor) £136



31-138 Class D11/2 4-4-0 62682 "Haystoun of Bucklaw" in BR black early emblem (Bac) (RRP £139.95) BARGAIN... £94

35-077 Class E4 Brighton tank 0-6-2T 32556 in BR black early emblem (Bac) (RRP £109.95) BARGAIN... £76

31-921 Class H2 Atlantic 4-4-2 32424 "Beachy Head" in BR black early emblem (Bac) (RRP £189.95) BARGAIN... £124.50

R3622 Class J36 0-6-0 65311 "Haig" in BR black early emblem (Hor)... £126



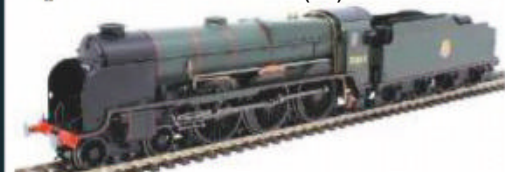
R3600TTS Class J36 0-6-0 673 "Maude" in North British Railway lined black - as preserved - TTS sound fitted (Hor) £148.50
R3621 Class J36 0-6-0 722 in LNER black (Hor) £126
R3407 Class J50 0-6-0T 68959 in BR Black early emblem (Hor) £79.50



R3668 Class J83 0-6-0T 8482 in LNER green - Railroad range (Hor) £40.50



R3603TTS Class LN 'Lord Nelson' 4-6-0 30850 "Lord Nelson" in BR green late crest - TTS sound fitted (Hor) £175.50



R3635 Class LN 'Lord Nelson' 4-6-0 30863 "Lord Rodney" in BR green early emblem (Hor) £153



32-166 Class N 2-6-0 1406 in Southern Railway black (Bac) (RRP £159.95) BARGAIN £108



OR76N7001 Class N7 0-6-2T 1002 in Great Eastern Railway wartime grey (Oxf) £87



3911 Class O2/3 Tango 2-8-0 63954 in early British Railways black stepped tender (Hel) (RRP £184.95) BARGAIN £84



3922 Class O2/4 Tango 2-8-0 63975 in BR black late crest flush tender (Hel) (RRP £184.95) BARGAIN £84



R1183Loco Class P2 2-8-2 2001 "Cock O' The North" in LNER green - Split from Set (Hor) £70



R3171 Class P2 2-8-2 2001 "Cock O' The North" in LNER Green (Railroad range) (Hor) £89
R3542 Class Q6 'Raven' 0-8-0 63427 in BR black early emblem (Hor) £136



R3329 Class S15 4-6-0 30830 in BR black late crest (Hor) (RRP £134.99) BARGAIN £94



R3615 Class W4 Peckett 0-4-0ST 560 in Peckett works leaf green builders lettering (Hor) £90

UK P&P £4 per order
(free for orders over £175)
£2.75 per single diecast item
£7 guaranteed Next Day delivery
(Orders before 2pm)



R3420 Drummond Class 700 0-6-0 30346 in BR black late crest (Hor) (RRP £124.99) BARGAIN £59



R3421 Drummond Class 700 0-6-0 30698 in BR Black early emblem (Hor) (RRP £124.99) BARGAIN £59
R3419 Drummond Class 700 0-6-0 693 in Southern Railway black (Hor) (RRP £124.99) BARGAIN £69



H4-P-001 SECR P Class 0-6-0T 178 in SE&CR full lined green (with brass) (Hat) £99
H4-P-015 SECR P Class 0-6-0T 27 SE&CR full lined green (with polished brass) (Hat) £99



31-981 Standard Class 3MT tank 82021 in BR lined black early emblem (Bac) £98



R3547 Standard Class 4MT 4-6-0 75008 in BR green late crest (Hor) £144

Steam train packs



R3607 15 Guinea Special anniversary train pack Class 7P 4-6-2 70013 "Oliver Cromwell" and 3 Mk1 coaches (Hor) (RRP £299.99) BARGAIN £195



R3398 Lyme Regis Branch Line Train Pack - Ltd Ed (Hor) (RRP £225.99) BARGAIN £175
H4-B-P-001 P Class bundle SECR P Class 0-6-0T 31556 in BR black and three 16 ton steel mineral wagons (Hat) (RRP £158.85) BARGAIN £120

Diesel locos



2930 Class 07 shunter 07001 in Harry Needle Railroad Company - Exclusive to Hattons Model Railways (Hel) (RRP £139) BARGAIN £95



2903 Class 07 shunter 07010 in BR blue wasp stripes (Hel) (RRP £139) BARGAIN £101
R3504TTS Class 08 08623 in DB Schenker - TTS Sound fitted (Hor) £139
1511 Class 15 D8234 in green small yellow panels - gloss finish (Hel) £101.15



R3661 Class 31 D5509 in BR green (Hor) £153



3417 Class 33/0 D6504 in BR green (Hel) £118.96



3437 Class 33/0 D6558 in BR blue (Hel) £118.96



3527 Class 35 'Hymek' D7088 in BR green small yellow panels (Hel) £110.46



32-790 Class 37/0 37049 "Imperial" in Railfreight Coal Sector triple grey (Bac) £135.96
32-789 Class 37/0 37099 "Merl Evans 1947-2016" Colas Rail Freight (Bac) £135.96



R3491 Class 42 Warship D805 "Benbow" in BR green - Railroad Range (Hor) (RRP £64.99) BARGAIN £34.50



R3658 Class 50 50033 "Glorious" in revised Network SouthEast (Hor) £136



R3653 Class 50 50040 "Leviathan" in BR large logo blue (Hor) £144
R3660 Class 56 56303 in Devon and Cornwall Railways green (Hor) £136



R3605TTS Class 60 60044 "Dowload" in DB Schenker red - TTS sound fitted (Hor) NEW £184.50



R3657 Class 60 60070 "John Loundon McAdam" in LoadHaul triple grey (Hor) £162



4D-022-013 Class 68 68004 "Rapid" in Direct Rail Services blue (Dap) £131.71
4D-022-009 Class 68 68006 "Daring" in Scotrail (Dap) £131.71



4D-022-015 Class 68 68026 in Direct Rail Services plain blue (Dap) £131.71
31-590 Class 70 70015 in Freightliner air intake modifications (Bac) (RRP £169.95) BARGAIN £133



R3591 Class 73/0 electro-diesel E6002 in BR green - Railroad Range (Hor) £60



OLIV003 Class 73/1 73141 "Charlotte" in First GBRf purple - Olivias Trains limited edition (Dap) (RRP £140) BARGAIN £69



OLIV001 Class 73/2 73207 in Gatwick Express - Olivias Trains limited edition (Dap) (RRP £140) BARGAIN £84
MM0086 Irish Class 071 086 in CIE 'Supertrain' orange and black (Mur) £125



32-993 Type 27 Wickham Trolley and trailer MPP0007 in BR engineers yellow wasp stripes (Bac) (RRP £79.95) BARGAIN £55



1099 Fawley Oil Refinery trainpack Class 33 D6584 in BR blue four B tank wagons in ESSO (Hel) £169.96

HSTs



R3685 Pair of Class 43 HST Power Cars 43041 "Meningitis Trust Support for Life" and 43005 in GWR green (Hor) (RRP £289.99) BARGAIN £229

Electric locos



7704 Class 77 EM2 Woodhead electric 27001 "Ariadne" in BR green - Ltd Ed for Olivias Trains (Hel) (RRP £165) BARGAIN £99



7702 Class 77 EM2 Woodhead electric 27004 "Juno" in BR electric blue - Ltd Ed for Olivias Trains (Hel) (RRP £165) BARGAIN £99

Electric loco train packs

R3807 "Dover Pullman" - Sovereign train pack (Hor) £220
R3791 Pullman Days train pack Class 71 BR blue and two Pullman coaches (Hor) NEW £207

DMUs



32-289 Class 101 2 car DMU in BR white and blue passenger figures (Bac) (RRP £229.95) BARGAIN £162



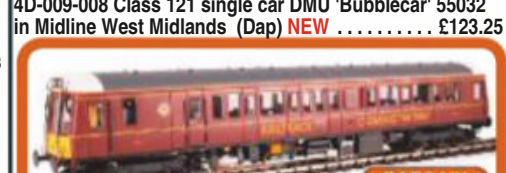
4D-009-005 Class 121 single car DMU "Bubblecar" 121027 "Bletchley TMD" in Silverlink purple and green (Dap) NEW £123.25



4D-009-006 Class 121 single car DMU "Bubblecar" 55026 in BR blue and grey Highland Rail stag (Dap) NEW £123.25



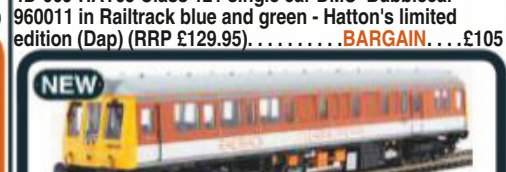
4D-009-007 Class 121 single car DMU "Bubblecar" 55032 in BR blue and grey Welsh Dragon emblem (Dap) NEW £123.25



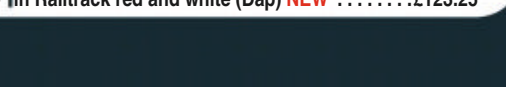
4D-009-008 Class 121 single car DMU "Bubblecar" 55032 in Midline West Midlands (Dap) NEW £123.25



4D-009-HAT06 Class 121 single car DMU "Bubblecar" 960010 in Railtrack "coaching stock" maroon - Hatton's limited edition (Dap) (RRP £129.95) BARGAIN £89



4D-009-HAT03 Class 121 single car DMU "Bubblecar" 960011 in Railtrack blue and green - Hatton's limited edition (Dap) (RRP £129.95) BARGAIN £105



4D-009-009 Class 121 single car DMU "Bubblecar" 977723 in Railtrack red and white (Dap) NEW £123.25

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4D-009-004 Class 121 single car DMU 'Bubblecar' W55023 in BR blue (Dap) (RRP £145) **BARGAIN**...£109



4D-015-004 Class 122 Gloucester RCW 'Bubblecar' single car DMU SC55013 in BR blue (Dap) (RRP £140.50) **BARGAIN**...£109
4D-015-008 Class 122 single car DMU 'Bubblecar' W55018 in BR green speed whiskers (Dap).....£123.25



8940 Class 128 parcels DMU M55993 in BR Blue full yellow ends and flush fronts (Hel) (RRP £119.95) **BARGAIN**£54

EMUs

R3606 5-BEL Pullman Brighton Belle EMU end vehicles in Pullman umber and cream small yellow panels (Hor).....£160

Track Maintenance vehicles



B800 Non-motorised OO Track Cleaner motorised cleaning heads & vacuum in blue (Dap).....£64

Train sets - analogue



R1151 Caledonian Belle starter trainset 0-4-0 steam loco in blue 4 wheel coach & open wagon (Hor) (RRP £49.99) **BARGAIN**...£45
R1244 East Lincolnshire Special train set LNER B17 and five wagons - Hornby 'Signature' Collection (Hor) **NEW**.....£282
R1245 Eastern Suburban train set LNER J15 and four Mk1 coaches - Hornby 'Signature' Collection (Hor) **NEW**.....£301.50
R1167 Flying Scotsman Train Set 3 x LNER coaches (loco has 3-pole motor) (Hor).....£130



R1202 Mallard Pullman Train Set Class A4 4468 'Mallard' in LNER blue and pair of Pullman coaches (Hor) ...£144
R1242 Saturday Special Plus train set LNER B17 4-6-0 in BR green and 4 Mk1 coaches - Hornby 'Signature' Collection (Hor) **NEW**.....£324
30-285 The Midlander Express train set (Bac).....£178.46
R1243 The Welshman train set GWR King and four Collett coaches - Hornby 'Signature' Collection (Hor) **NEW**.....£351

Train sets - digital



R1173 e-Link DCC Western Master train set GWR Class 2721 steam loco & 3 wagons (Hor).....£130



R1125 Somerset Belle train set Class 3F 0-6-0 S&DJR 0-6-0 steam loco & 3 wagons - DCC control (Hor) (RRP £210.99) **BARGAIN**...£130



R1184 Western Express digital train set eLink TTS sound Hall steam loco (Hor) (RRP £329.99) **BARGAIN**...£199

Coaches



30-525 Coaches 2 x Pullman Cars (349 & 335) & 1 x Mk1 BSK in Pullman umber & Cream - separated from the Shakespeare Express set (Bac).....£70
39-602 60' ex-SECR Birdcage brake third lavatory S3500S in BR crimson (Bac) (RRP £59.95) **BARGAIN**.....£42
39-622 60' ex-SECR Birdcage brake third S3428S in BR crimson (Bac) (RRP £59.95) **BARGAIN**.....£39.50
R4876 Collett 57' 'Bow ended' non-corridor brake third (Left-hand) 4971 in GWR chocolate and cream (Hor).....£44.50
R4876A Collett 57' 'Bow ended' non-corridor brake third (Left-hand) 5503 in GWR chocolate and cream (Hor).....£44.50
R4877 Collett 57' 'Bow ended' non-corridor brake third (Right-hand) 4972 in GWR chocolate and cream (Hor).....£44.50



R4877A Collett 57' 'Bow ended' non-corridor brake third (Right-hand) 5504 in GWR chocolate and cream (Hor) £44.50
R4878 Collett 57' 'Bow ended' non-corridor composite (Left-hand) W6630W in BR crimson (Hor).....£44.50



R4875 Collett 57' 'Bow ended' non-corridor composite (Right-hand) 6362 in GWR chocolate and cream (Hor) £44.50



R4525 Collett restaurant car 9578 in GWR chocolate & cream - Railroad Range (Hor) (RRP £21.99) **BARGAIN**...£10
R4844 ex-LMS Period III 50' parcels van M31137 in BR maroon (Hor) **NEW** £45



R4744 Maunsell brake third 3563 in SR malachite green - Railroad Range (Hor) (RRP £22.99) **BARGAIN**...£9.50



R4619A Mk1 BG full brake M80532 in BR maroon (Hor) (RRP £24.99) **BARGAIN**...£18



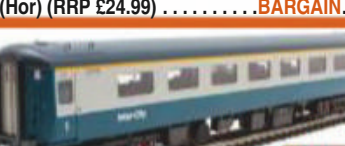
39-051E Mk1 SO second open M4929 in BR maroon (Bac) (RRP £47.95) **BARGAIN**...£33



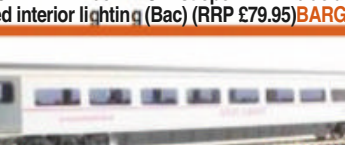
R4621A Mk1 TSO second open E4558 in BR maroon (Hor) (RRP £24.99) **BARGAIN**...£18



R4643A Mk1 TSO second open M4473 in BR maroon (Hor) (RRP £24.99) **BARGAIN**...£18



39-650DC Mk2F 'Aircon' FO first open in BR blue and grey - DCC fitted interior lighting (Bac) (RRP £79.95) **BARGAIN**...£52



R4666B Mk4 TSO second open 12425 in East Coast (Hor) (RRP £28.49) **BARGAIN**...£14



R1177 coaches Pack of 3 Pullman parlour coaches - Split from R1177 Set (Hor).....£45
R4843 Period III 50' passenger brake 31010 LMS crimson lake (Hor) **NEW** £45

Wagons



BOC03 100 ton BOC tank in BOC Gases red stripe and Gloucester bogies - 0010 (Hel).....£75
BOC07 100 ton BOC tank in BOC Liquid Nitrogen red stripe and Gloucester bogies - 0007 (Hel).....£75

R6854 14 ton tank wagon 'Sinclair Oils' (Hor) **NEW**.....£15.50
OR76WW011 45 ton Warwell wagon MOD olive GPS bogies (Oxf) **NEW** £25.50
R6869 5-plank open wagon 'John Lovering and Co' (Hor) **NEW**...£13.50
R6873 6-plank open wagon 'J.O. Murgatroyd' (Hor) **NEW**.....£13.50



R6425 FFA Freightliner flat two 30' containers - Railroad Range (Hor).....£15
R6727A Horse box 42442 in LMS maroon (Hor) (RRP £21.99) **BARGAIN**...£9



R6885 Pack of three HEA coal hopper wagons in EWS maroon (Hor).....£38



H4-RHTT-001 Rail Head Treatment Train 'Sandite' 2 wagons and sandite modules (Hat).....£118



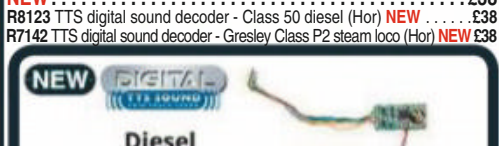
H4-RHTT-004 Rail Head Treatment Train 'Sandite' 2 wagons and sandite modules - weathered (Hat).....£126

H4-RHTT-005 Rail Head Treatment Train 'Water Jet' 2 wagons and water jetting modules - weathered (Hat).....£126
H4-RHTT-003 Rail Head Treatment Train 'Water' wagon 3 water modules to extend either RHTT pack to 3 wagons (Hat).....£59
H4-RHTT-006 Rail Head Treatment Train 'Water' wagon 3 water modules to extend either RHTT pack to 3 wagons - weathered (Hat).....£63

Digital decoders



R7146 TTS digital sound decoder - Class 08 shunter (Hor) **NEW**.....£38
R8123 TTS digital sound decoder - Class 50 diesel (Hor) **NEW**.....£38
R7142 TTS digital sound decoder - Gresley Class P2 steam loco (Hor) **NEW** £38



R7140 TTS digital sound decoders - Class 43 HST Valenta - Pack of two (Hor) **NEW**.....£63

Digital control accessory decoders

PC2 One Touch DCC Quad Point Controller x 4 (Tra).....£34

Digital controllers

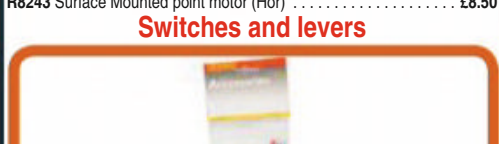


R8214 DCC Elite unit digital controller (Hor).....£215
R8312 e-LINK Module, Railmaster Software & 1 Amp Transformer (PC/Laptop Required) (Hor).....£85

Point motors

R8014 Mark 2 Point Motor (Hor) (RRP £9.99) **BARGAIN**.....£5
R8243 Surface Mounted point motor (Hor).....£8.50

Switches and levers



R044 Passing contact lever frame switch (for point motors) (Hor) (RRP £11.99) **BARGAIN**...£6

Electronic components

R8211 Rolling road for all types of steam loco (utilises live rollers) (Hor).....£76

Lighting equipment

CL2 Standard Coach Lighting Strips - Warm White (Tra).....£17.50

Cables & Wires

PL-80 Power feed joiners - Code 100/124 (x4 pairs) (Pec).....£6

Model railway spares

SL-11 Insulated rail joiners/fishplates (for OO, HO & O gauge code 100 rails incl. Hornby, Peco & Peco Streamline) - Pack of 12 (Pec).....£2
SL-10 Metal rail joiners/fishplates (for code 100 rails incl. Hornby, Peco & Peco Streamline). For OO, HO & O gauge - Pack of 24 (Pec).....£2.20
19KADEE NEM362 Kadee coupling - Long (10.76mm) - Pack of four (Kad).....£5
18KADEE NEM362 Kadee coupling - Medium (8.63mm) - Pack of four (Kad).....£5

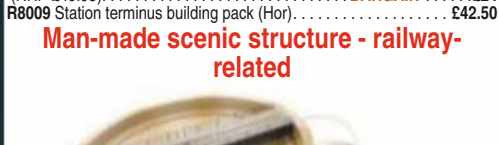
Wheel sets

R8096 12.6mm Metal disc wheels on axles (10 axles) (Hor).....£12

Buildings - railways

44-0002 Single-road stone engine shed (183 x 88 x 113mm) (Bac) (RRP £49.95) **BARGAIN**.....£24
R8009 Station terminus building pack (Hor).....£42.50

Man-made scenic structure - railway-related



89121 27.4 metre (90ft) Motorised turntable - ready for installation. For HO/OO scales. DCC ready (Hel).....£210



R083 Box of 6 Buffer Stop (Hor).....£9.50
R083 Single (Hor).....£1.80
R636 Double track level crossing (Hor) (RRP £28.99) **BARGAIN**.....£14
R514 Platform Canopy x 2 (Hor).....£17

Signals

DCD-GS-BR 2-aspect Red/White LMS and BR-style ground signal - Pack of 12 (DCC) (RRP £79.96) **BARGAIN**.....£51
4L-002-001 Signal - Motorised, LMS home (OOSIGN3) (Dap).....£25
4L-001-001 Signal - Motorised, Square post GWR home lower quadrant (OOSIGN1) (Dap).....£25

Bridges, Tunnels & Walls



PO244 Retaining wall in red brick - 4 sections per pack - card kit (Met).....£12

Track - Code 100 Setrack

R8090 1 single yard length of Semi-Flexible Track (Hor).....£3.50
R8090 Pack of 24 (Hor).....£79
R605 1st radius double curve (8 make a circle) (Hor).....£2.50
R605 Circle of 8 (Hor).....£18
R607 2nd radius double curve track (8 make a circle) (Hor).....£2.50
R607 Circle of 8 (Hor).....£18
R609 3rd radius double curve track (8 make a circle) (Hor).....£2.60
R609 Circle of 8 (Hor).....£20
R601 Double Straight (Hor).....£2
R601 Box of 24 (Hor).....£47



R070 Electrically Operated Turntable (Hor).....£64

R8072 Left Hand Standard Point (Hor).....£9.50
R8078 Right hand Express point (Hor).....£14.50
R8073 Right Hand Standard Point (Hor).....£9.50
ST-245 Setrack curved double radius left handed point insulfrog (Pec).....£14.50
ST-244 Setrack curved double radius right handed point insulfrog (Pec).....£14.50
ST-241 Setrack No.2 radius left handed point insulfrog (Pec).....£9
ST-240 Setrack No.2 radius right handed point insulfrog (Pec).....£9
ST-235 Setrack No.4 Radius Standard Curve. No "double" version produced - use 16 to form a circle (Pec).....£2.50
R610 Short Straight (Hor).....£1.20
R621 Single 970mm length of flexible track (Hor).....£3
R621 Pack of 24 (Hor).....£66
R600 Standard Straight (Hor).....£1.50
R600 Box of 24 (Hor).....£34

Track - Code 100 Streamline



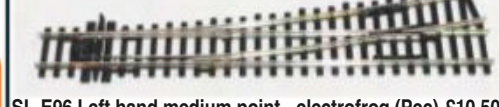
SL-100 Pack of 25 1 yard (91.5cm) length of Code 100 Wooden-sleeper nickel silver flexible track (Pec).....£66
SL-100 Single (Pec).....£3
SL-102 1 yard (91.5cm) length of Nickel Silver concrete-sleeper flexible track (Pec).....£3
SL-102 Pack of 25 (Pec).....£70
SL-E99 3 way medium radius point - electrofrog (Pec).....£27
SL-99 3 way medium radius point - insulfrog (Pec).....£27
SL-90 Double slip - insulfrog (Pec).....£33



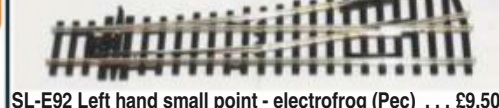
SL-E87 Left hand curved point - electrofrog (Pec).....£12.50
SL-87 Left hand curved point - insulfrog (Pec).....£12.50



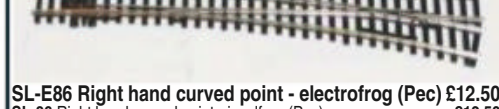
SL-E89 Left hand large point - electrofrog (Pec).....£12
SL-89 Left hand large point - insulfrog (Pec).....£12



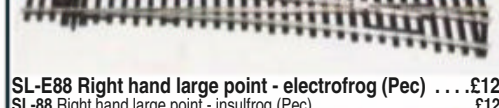
SL-E96 Left hand medium point - electrofrog (Pec).....£10.50
SL-96 Left hand medium point - insulfrog (Pec).....£10.50



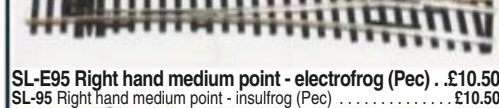
SL-E92 Left hand small point - electrofrog (Pec).....£9.50
SL-92 Left hand small point - insulfrog (Pec).....£9.50



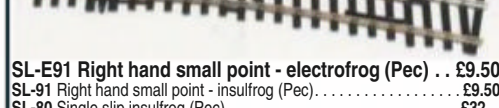
SL-E86 Right hand curved point - electrofrog (Pec).....£12.50
SL-86 Right hand curved point - insulfrog (Pec).....£12.50



SL-E88 Right hand large point - electrofrog (Pec).....£12
SL-88 Right hand large point - insulfrog (Pec).....£12



SL-E95 Right hand medium point - electrofrog (Pec).....£10.50
SL-95 Right hand medium point - insulfrog (Pec).....£10.50



SL-E91 Right hand small point - electrofrog (Pec).....£9.50
SL-91 Right hand small point - insulfrog (Pec).....£9.50
SL-80 Single slip insulfrog (Pec).....£32

Prices valid until 03/07/19

All prices correct
when going to press.
Errors excepted.

Track - Code 75 Finescale



SL-108F Box of 25 1 yard (91.5cm) length of Code 75 Wooden-sleeper nickel silver bullhead rail flexible track (Pec) £98
SL-108F Single (Pec) £4



SL-100F Pack of 25 1 yard (91.5cm) length of Nickel Silver Finescale flexible track (Pec) £72
SL-100F Single (Pec) £3
SL-E199 3 way finescale medium radius point - electrofrog (Pec) £29



SL-E190 Finescale double slip - electrofrog (Pec) ... £38



SL-E189 Finescale left hand large point electrofrog (Pec) £12.50



SL-E196 Finescale left hand medium point - electrofrog (Pec) £11.50



SL-E192 Finescale left hand small point - electrofrog (Pec) £10.50
SL-E186 Finescale right hand curved point - electrofrog (Pec) £13
SL-E188 Finescale right hand large point - electrofrog (Pec) £12.50



SL-E195 Finescale right hand medium point - electrofrog (Pec) £11.50



SL-E191 Finescale right hand small point - electrofrog (Pec) £10.50
SL-U1189 Left hand large radius bullhead rail point - unifrog (Pec) £26

Track underlay

SL-50 Roll of foam track underlay sleeper indentation. Suitable for Setrack and Streamline 5m long (16' 4") (Pec) £10

Buses



76OWB014 Bedford OWB - Isle of Man Road Services (Oxf) NEW £15



76MW6004 Bristol MW6G Tilling Transport (Oxf) NEW £16



76LRT009 Leyland Royal Tiger Alexander Bluebird (Oxf) £15



OM46514A Wright Eclipse Gemini 2 - Go-Ahead East London Transit - EL2 Ilford Station (Cor) £33

Cars

R7124 BMC Mini Saloon - SkaleAuto Range (Hor) NEW £6



76FZ001 Ford Zodiac MkII Shark Blue/Pompadour Blue (Oxf) NEW £5
76LAN2020 Land Rover Series 2 LWB Canvas Bluebird Land Speed Record 1960 (Oxf) NEW £5

76NMN007 New Mini Chili Red/White (Oxf) NEW £5
76VWB011HK VW Beetle Pink - HK Registration (Oxf) NEW £5
76VWB011UK VW Beetle Pink - UK Registration (Oxf) NEW £5
76VWS001 VW T1 Samba Bus Sealing Wax Red/Beige Grey (Oxf) NEW £5
76T4001 VW T4 Westfalia Camper Paprika Red (Oxf) NEW £5

Public Service vehicles

Commercial vehicles

76FDE016 Ford 400E Minibus London Fire Brigade (Green) (Oxf) NEW £5
76ATKL005 Atkinson Cattle Truck L Davies & Sons (Oxf) NEW £13
R7125 BMC Mini Van - SkaleAuto Range (Hor) NEW £6
76FTC012 Ford Transit Connect RAF Police Dog Unit (Oxf) NEW £5

NEW



76TPU003 Ford Transit Dropside London Underground (Oxf) NEW £12
R7152 Ford Transit Mk1 - SkaleAuto Range (Hor) NEW £6.50

NEW



76LRL006 Land Rover - "Fred Dibnah - Steeplejack" (Oxf) £5

Military ground vehicles

NEW



76WOT002 Ford WOT1 Crash Tender RAF Catterick (Red) (Oxf) NEW £13.50
76WMB004 Willys MB RAF 83 Gp.2nd Tactical AF -1944/5 (Oxf) £5.50

Tools

SL-43 Loco Lift and storage unit (Pec) £12

N Gauge

Steam locos

2S-007-013D Class 57xx Pannier 0-6-0 9744 in British Railways green - DCC fitted (Dap) £97

NEW



2S-007-017 Class 57xx Pannier 0-6-0PT 6760 in BR black early emblem and later cab (Dap) £72
2S-007-018 Class 57xx Pannier 0-6-0PT 8763 in BR lined black early emblem and later cab (Dap) £72

NEW



2S-012-010 Class A1X 'Terrier' 0-6-0T 32636 in BR black late crest (Dap) NEW £67.96

NEW



2S-012-009 Class A1X 'Terrier' 0-6-0T 40 "Brighton" in LB&SCR improved engine green (Dap) NEW £67.96
2S-012-012 Class A1X 'Terrier' 0-6-0T 734 in London and South Western Railway green (Dap) NEW £67.96

NEW



2S-012-011 Class A1X 'Terrier' 0-6-0T 751 in South Eastern and Chatham Railway green (Dap) NEW .. £67.96

NEW



2S-011-006 Class A3 4-6-2 60103 'Flying Scotsman' in BR green late crest (Dap) £124.38
2S-008-011 Class A4 4-6-2 2512 'Silver Fox' LNER grey valances (Dap) £128.83
2S-008-006 Class A4 60029 'Woodcock' in BR green late crest (Dap) £122

NEW



2S-021-002 Class Q1 0-6-0 33018 in BR black late crest (Dap) £107

Diesel locos



371-398 Class 66/7 66779 "Evening Star" in BR green GBRF branding (Gra) (RRP £134.95) ..BARGAIN.. £89.50



2D-022-004 Class 68 68014 in Chiltern Railways (Dap) (RRP £135)BARGAIN..... £84

HSTs



2D-019-009 Class 43 HST 4-car book set in GWR Green (Dap) £160.89

Electric locos



2D-026-004 Class 86/2 86216 "Meteor" in BR blue (Dap) NEW £93.46



2D-026-002 Class 86/2 86259 "Les Ross/Peter Pan" in BR electric blue - as preserved (Dap) NEW £93.46



2D-026-001 Class 86/4 86401 "Mons Meg" in Caledonian Sleeper blue (Dap) NEW £93.46

DMUs



2D-009-003 Class 121 'Bubble Car' DMU W55033 in BR green speed whiskers (Dap) £114.04
2D-009-003D Class 121 'Bubble Car' DMU W55033 in BR green speed whiskers - DCC fitted (Dap) £135.78



ND116C Class 142 'Pacer' 2 car DMU 142025 in Northern Spirit (Dap) £115.18
ND116CD Class 142 'Pacer' 2 car DMU 142025 Northern Spirit - DCC fitted (Dap) £136.93



ND116B Class 142 'Pacer' 2 car DMU 142081 in Regional Railways (Dap) £115.18



ND116D Class 142 'Pacer' 2 car DMU 142085 in Arriva Trains Wales (Dap) (RRP £129.79)BARGAIN..... £94

Containers and loads

NR-216 Pack of two containers for Conflat wagons - BR furniture removals (Pec) NEW £7.50
NR-213 Pack of two containers for Conflat wagons - GWR furniture removals (Pec) NEW £7.50
NR-217 Pack of two containers for Conflat wagons - LEP furniture removals (Pec) NEW £7.50
NR-212 Pack of two containers for Conflat wagons - LMS furniture removals (Pec) NEW £7.50
NR-214 Pack of two containers for Conflat wagons - LNER furniture removals (Pec) NEW £7.50
NR-215 Pack of two containers for Conflat wagons - SR furniture removals (Pec) NEW £7.50

Cables & Wires

PL-82 Power feed joiners - Code 55/80 (x4 pairs) (Pec) £6

Model railway spares

2A-000-008 Magnetic NEM couplers - medium arm (ex-NSPARE8) - 5 pairs (Dap) £21
SL-310 Rail Joiners/Fishplates for N & OO9 gauge (24 per pack) (Pec) £2

Track - Code 80 Setrack

ST-11 Double straight track (Pec) £1.60
ST-6 Setrack left hand point insulfrog (Pec) £8.50
ST-5 Setrack right hand point insulfrog (Pec) £8.50
ST-300 Starter Track Set (Pec) £49

Track - Code 80 Streamline



SL-300 Pack of 25 1 yard (91.5cm) length of Wooden-Sleeper Nickel Silver Flexible track (Pec) £64
SL-300 Single (Pec) £3



SL-E396 Left hand medium point electrofrog (Pec) £9.50
SL-396 Left hand medium point insulfrog (Pec) £9.50
SL-395 Right hand medium point insulfrog (Pec) £9.50

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) £3



SL-E399F 3-way finescale turnout (Pec) £28
SL-E387F Finescale curved double radius left hand point electrofrog (Pec) £11



SL-E390F Finescale double slip electrofrog (Pec) ... £38



SL-E392F Finescale left hand small point electrofrog (Pec) £9.50
SL-E383F Finescale scissors crossover electrofrog (Pec) £63

Buses

NLRT004 Leyland Royal Tiger - Maidstone & District (Oxf) NEW ... £7.50

Commercial vehicles

NFT023 Ford Transit Mk5 SWB Low Roof Network Rail (Oxf) NEW ... £5
GM392 Streetscooter EV van - "Milk and More" (Gau) NEW £11

OO9 Narrow Gauge

Steam locos



9950 Lynton & Barnstaple 2-6-2T "Yeo" in L&B dark green (Hel) (RRP £189.95)BARGAIN.. £134.50
9951 Lynton & Barnstaple 2-6-2T 760 'Exe' Southern Railway green (Hel) £189.95
9953 Lynton & Barnstaple 2-6-2T E760 'Exe' in intermediate Southern Railway (1927-29) (Hel) £209.95

Track - Code 80 Streamline

SL-E492 Left hand point electrofrog (Pec) £9.50
SL-E491 Right hand point electrofrog (Pec) £9.50

O Gauge (1:43 Scale)

Steam locos



4320 Class 43xx 'Mogul' 2-6-0 4375 in GWR green (Hel) .. £662.15



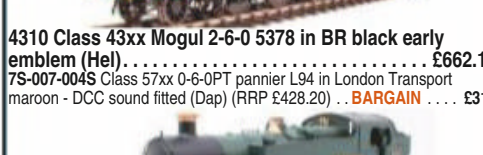
4322 Class 43xx 'Mogul' 2-6-0 4377 in BR lined green late crest (Hel) £662.15



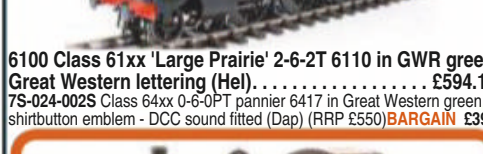
4300 Class 43xx Mogul 2-6-0 4339 GWR green Great Western lettering (Hel) £662.15



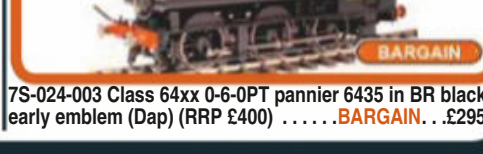
4312 Class 43xx Mogul 2-6-0 5330 in BR lined green late crest (Hel) £662.15



4310 Class 43xx Mogul 2-6-0 5378 in BR black early emblem (Hel) £662.15
7S-007-004S Class 57xx 0-6-0PT pannier L94 in London Transport maroon - DCC sound fitted (Dap) (RRP £428.20) ..BARGAIN..... £314



6100 Class 61xx 'Large Prairie' 2-6-2T 6110 in GWR green Great Western lettering (Hel) £594.15
7S-024-002S Class 64xx 0-6-0PT pannier 6417 in Great Western green shirtbutton emblem - DCC sound fitted (Dap) (RRP £550)BARGAIN £395



7S-024-003 Class 64xx 0-6-0PT pannier 6435 in BR black early emblem (Dap) (RRP £400)BARGAIN.. £295

Visit

www.hattons.co.uk/preorder

for all forthcoming releases



7S-025-001 Class 74xx 0-6-0PT pannier 7411 in GWR green (Dap) (RRP £400) **BARGAIN** £295
7S-007-003S Class 8750 0-6-0PT pannier 9659 GWR green - DCC sound fitted (Dap) **BARGAIN** £357.60
7S-010-012 Class A1X 'Terrier' 0-6-0T 32650 BR lined black early emblem (Dap) **BARGAIN** £191.25

Diesel locos



2596 Class 05 shunter in Industrial maroon wasp stripes on bufferbeam (Hel) (RRP £395) **BARGAIN** £195



2595 Class 05 shunter in NCB National Coal Board green red detailing and wasp stripes (Hel) (RRP £395) **BARGAIN** £195



2594 Class 05 shunter No.2 in CEBG yellow wasp stripes (Hel) £195



2006 Class 20 in BR blue full yellow ends, 1980s style warning flashes and headcode discs - Exclusive to Hatton's (Hel) (RRP £599) **BARGAIN** £395
2007 Class 20 in BR Railfreight grey full yellow ends, 1980s style warning flashes and headcode discs - Exclusive to Hatton's (Hel) (RRP £599) **BARGAIN** £395



2015 Class 20 in Railfreight Red Stripe headcode boxes (Hel) (RRP £599) **BARGAIN** £427



5288 Class 52 D1023 "Western Fusiler" in BR blue (Hel) (RRP £599) **BARGAIN** £470
5290 Class 52 D1043 "Western Duke" in BR chromatic blue small yellow panels (Hel) (RRP £599) **BARGAIN** £470



5289 Class 52 D1067 "Western Druid" in BR blue - weathered (Hel) £509.15

DMUs



8951 Class 128 parcels DMU 55993 in Royal Mail red (Hel) (RRP £599) **BARGAIN** £295



8913 Class 128 parcels DMU M55994 in BR blue yellow ends (Hel) (RRP £599) **BARGAIN** £295
8950 Class 128 parcels DMU M55995 BR blue yellow ends (Hel) (RRP £599) **BARGAIN** £295



8914 Class 128 parcels DMU W55991 in BR blue - weathered (Hel) (RRP £599) **BARGAIN** £295



8910 Class 128 parcels DMU W55991 in BR green speed whiskers (Hel) (RRP £599) **BARGAIN** £295



8912 Class 128 parcels DMU W55992 in BR green yellow doors (Hel) (RRP £599) **BARGAIN** £295



8911 Class 128 parcels DMU W55993 in BR green speed whiskers (Hel) (RRP £599) **BARGAIN** £295

Coaches



7P-004-003 GWR 59' Auto Coach in GWR chocolate and cream shirtbutton (Dap) £170

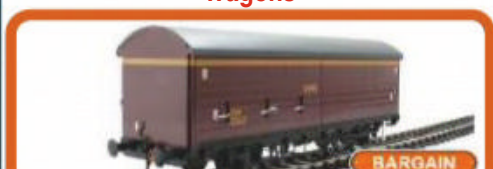


4956 Mk1 BG full brake in Royal Mail red (Hel) (RRP £325) **BARGAIN** £147



4921 Mk1 BSK brake second corridor in BR maroon - unnumbered (Hel) £169.50

Wagons



1043 200xx VBA sliding door van in EWS (Hel) (RRP £84.95) **BARGAIN** £29.50



7F-018-005 4 wheel salt van "Saxa Salt" (Dap) **NEW** £42.50
7F-018-005W 4 wheel salt van "Saxa Salt" - weathered (Dap) **NEW** £42.50
7F-031-004 6-wheel milk tanker in 'United Creameries' (Dap) £66



5053 Bogie covered IWB Cargowagon 2797589 - "GB-Continent" (Hel) (RRP £189) **BARGAIN** £79



5152 Bogie flat IWB Cargowagon 4647007 in Corus Rail (Hel) (RRP £189) **BARGAIN** £74
5151 Bogie flat IWB Cargowagon 4647026 in silver and blue - weathered (Hel) (RRP £189) **BARGAIN** £84



5153 Bogie flat IWB Cargowagon 4647039 in Corus Rail - weathered (Hel) (RRP £189) **BARGAIN** £74

Track - Code 124 Bullhead Streamline



SL-700BH Box of 12 1 Yard O Gauge Flexible Nickel Silver Track (Bullhead Nickel Silver Rail) (Pec) £75
SL-700BH Single (Pec) £6.50
SL-E790BH Double slip (8 degree angle). Electrofrog (Pec) £85
ST-725 Setrack Bullhead 2nd radius standard curve 410mm (16") (Pec) £6
ST-700 Setrack Bullhead straight 394mm (15.5") (Pec) £6
ST-U751 Setrack second radius Unifrog left hand point (Pec) £43
ST-U750 Setrack second radius Unifrog right hand point (Pec) £43
SL-E797BH Y Point bullhead rail & electrofrog (Pec) £43

Cars



VA12413 Ford Granada 2.8i Ghia Cosmos Blue (Cor) **NEW** £27



VA11706 Ford Sierra RS500 Cosworth - Moonstone Blue (Cor) **NEW** £27

Commercial vehicles



43LRL006 Land Rover Lightweight Hard Top - "Fred Dibnah" (Oxf) **NEW** £14.50

1:24 Scale

Cars



22443W DMC DeLorean time machine - Back to the Future 1 (Oxf) **NEW** £14.50
22441W DMC DeLorean time machine - Back to the Future 2 (Oxf) **NEW** £14.50



22444 DMC DeLorean time machine - Back to the Future 3 (Oxf) **NEW** £14.50

Any or Multiple Scales

Analogue controllers



COMBI Combi 12v 1Amp Single Track Controller Transformer (Gau) £34



D Double/Twin track power controller (Gau) £86
Q Quadruple 4 circuit power controller (Gau) £149
W Walkabout circuit controller (Gau) £34

Digital decoders

Imperium 1 "Imperium" 21 Pin MTC 6-function DCC decoder (Dap) £19.51
DCR-21Pin-Direct-V2 21-pin 6-function 1.1Amp direct plug decoder back EMF (Hat) £16.50
X9659 4-pin DCC decoder for Sentinels and Peckett locos (Hor) £12



36-568 6 pin DCC decoder Back EMF and Railcom (Bac) £24.61
DCR-6PIN-Direct 6-pin 2-function 1.1Amp direct plug decoder back EMF (Hat) £17
DCR-8PIN-HarnessMini 8-pin (harness) 2-function 1.1Amp small & thin (mini) decoder back EMF (Hat) £16
DCR-8PIN-HarnessMini Box of 5 (Hat) £72
DCR-8PIN-HarnessMini Box of 10 (Hat) £128



DCR-8PIN-Harness Box of 10 8-pin (harness) 4-function 1.1Amp decoder back EMF (Hat) £120
DCR-8PIN-Harness Single (Hat) £15
DCR-8PIN-Harness Box of 5 (Hat) £68



36-553 8-pin 3-function 0.75A decoder back EMF (Bac) (RRP £20.90) **BARGAIN** £12
R8249 8-pin 4-function 2-sided 0.5A (1A peak) decoder (Hor) £16
R8249 Box of 6 (Hor) £92
DCR-8PIN-Direct 8-pin compact direct 4-function 1.1Amp decoder back EMF (Hat) £17
DCR-8PIN-Direct Box of 5 (Hat) £77
DCR-8PIN-Direct Box of 10 (Hat) £136
R8117 TTS DCC Sound Decoder 8 pin plug - 'Princess Coronation' 4-6-2 steam loco (Hor) £36
R8118 TTS DCC Sound Decoder 8 pin plug - Class 20 diesel (Hor) £36
R8101 TTS DCC Sound Decoder 8 pin plug - Class 31 diesel (Hor) £36
R8110 TTS DCC Sound Decoder 8 pin plug - Class 4073 'Castle' 4-6-0 steam loco (Hor) £36



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R8107 TTS DCC Sound Decoder 8 pin plug - Gresley Class A4 4-6-2 steam loco (Hor) £36

Digital controllers



524-042 NCE Power Cab 2 Amp Digital DCC controller (NCE) £154



DCC02 Prodigy "Advance 2" starter DCC controller package (Gau) £269
DCC01 Prodigy Express 1.6 Amp DCC controller - complete starter pack (Gau) £159.50

Digital control accessories

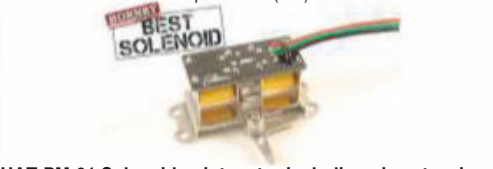


DCD-AEC Cobalt Alpha - 12 way switch control panel (DCC) £111
BDCC80 Pack of three DCC autofrog polarity reversal switches - for electrofrog points (Gau) £14.50
524-037 S85 5 amp Power Booster DCC system for use Power Cab controller (NCE) £177

Point motors



DCP-CB12DIP Cobalt ip slow-action digital point motor - pack of 12 (DCC) £220
DCP-CB10MG Cobalt Omega slow-action analogue point motor x 1 (DCC) £16.50
DCP-CBSS-12 Cobalt SS surface mounted point motors controller - pack of 12 (DCC) £245
PL-10 Point Motor (Switch Machine) (Pec) £6
PL-10 Bag of 6 (Pec) £34
PL-10E Point Motor Extended Pin (use PL-9) (Pec) £6
PL-10E Bag of 6 (Pec) £34
PM-1 Seep point motor accessory switch (Gau) £5
PL-11 Side/surface mounted point motor (Pec) £8



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

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PL-13 Accessory Switch for fitting to turnout motor PL10 (Pec) £3
PL-26B Passing Contact Switch - Black Lever (Pec) £6

Display and storage



HZ-OM03 Modular Organizer corner drawers module - flat-pack kit (Hob) £24



HZ-OM02a Modular Organizer flat drawers module x 3 - flat-pack kit (Hob) £15

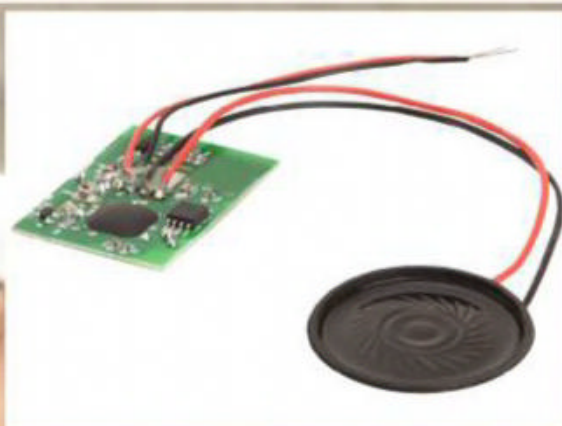
Tools



DCM-RRR8 Rolling Road - 8 Axle - For OO, N, HO, TT, O09, EM and P4 gauges (DCC) £68

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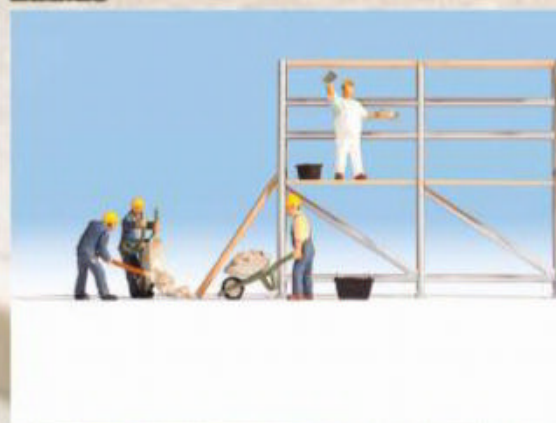
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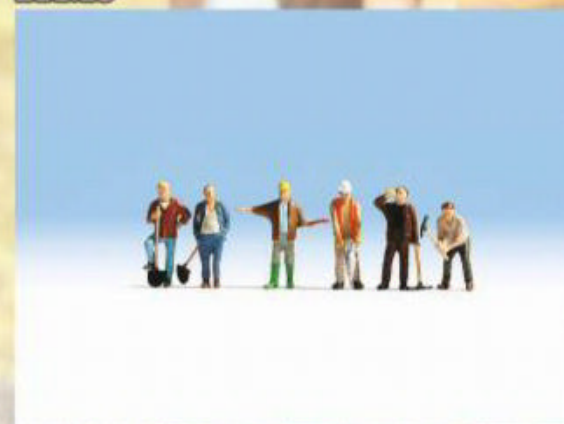
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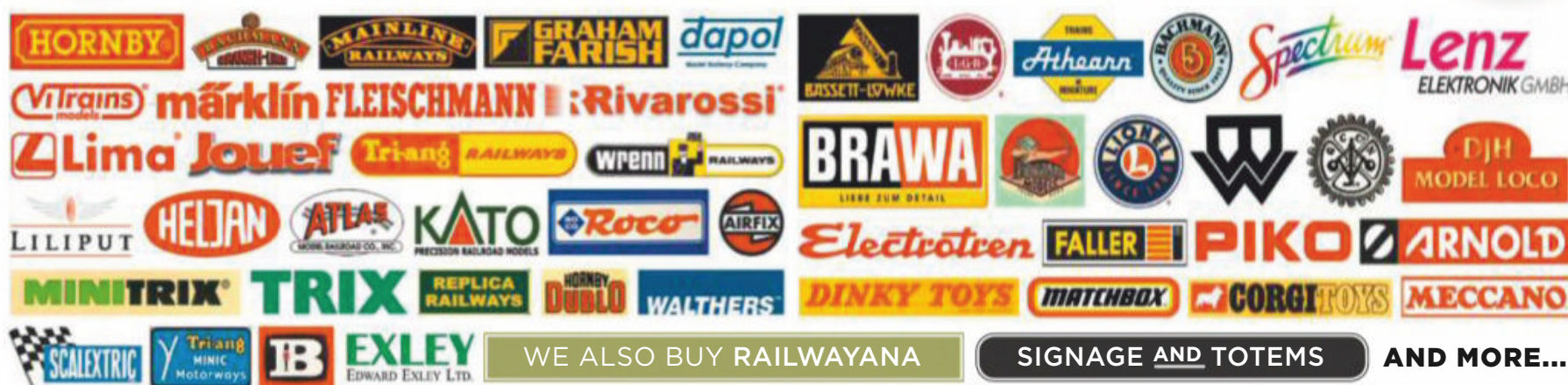
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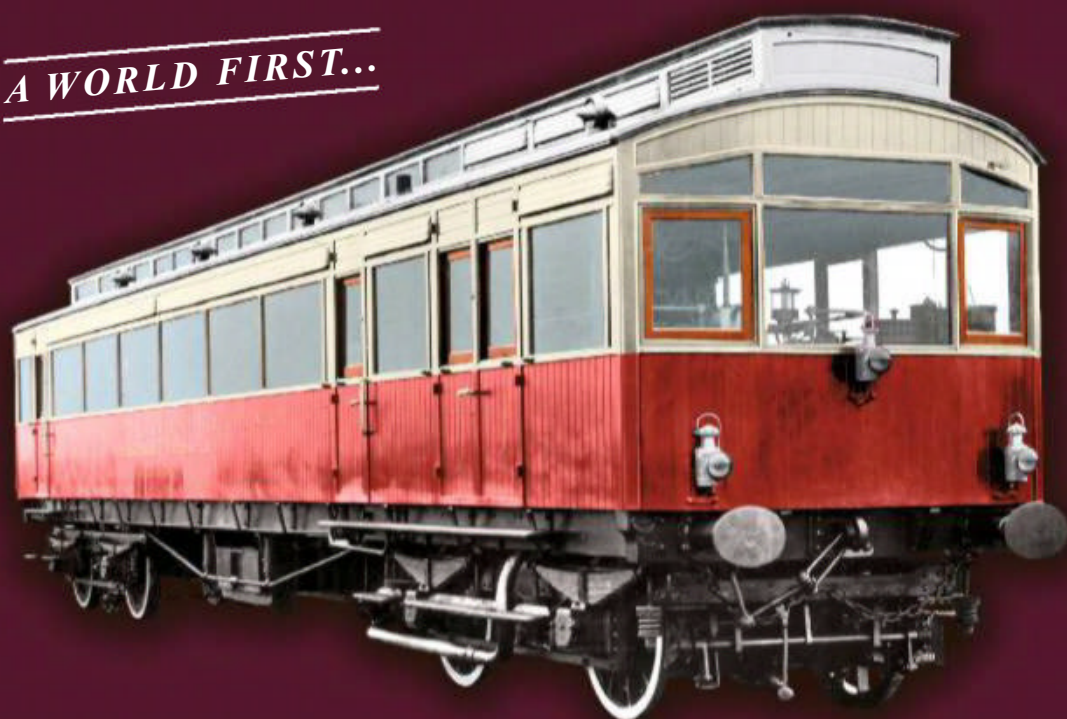
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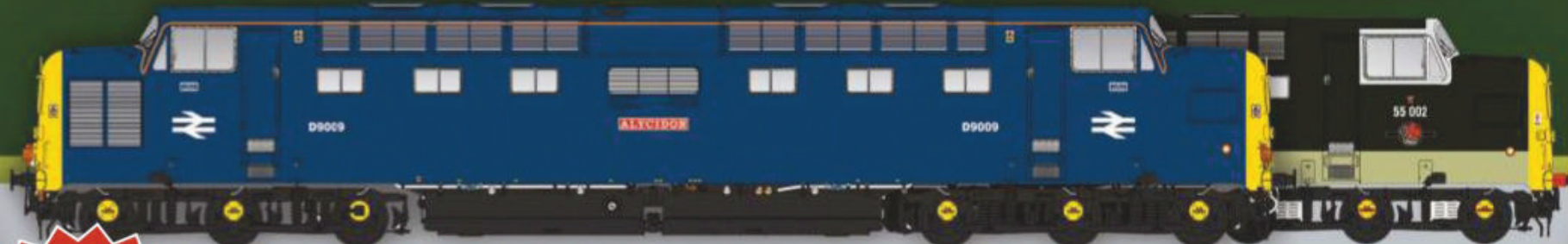
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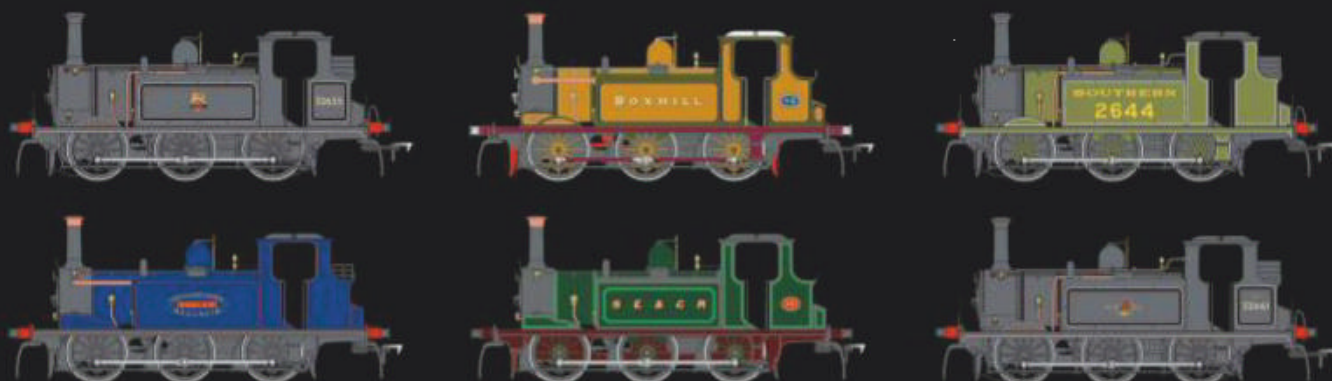
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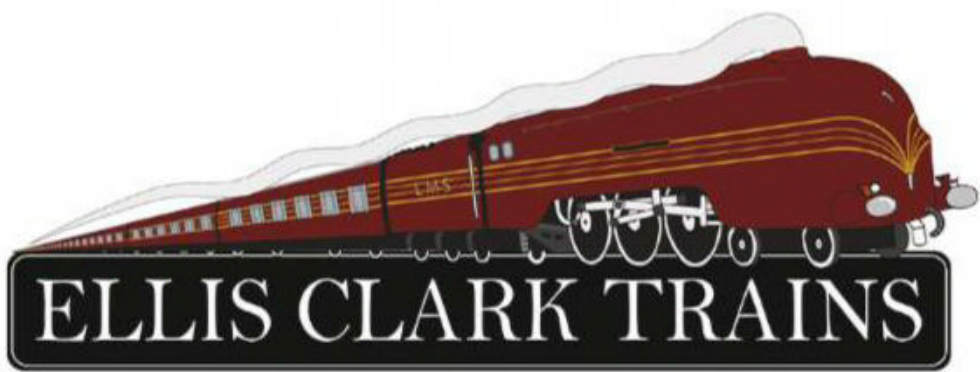
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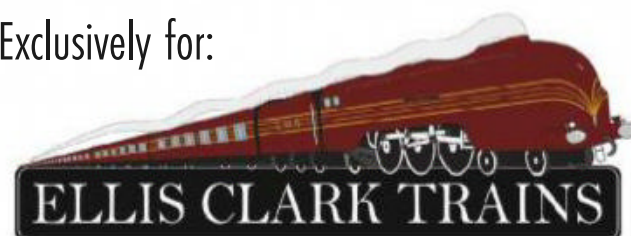
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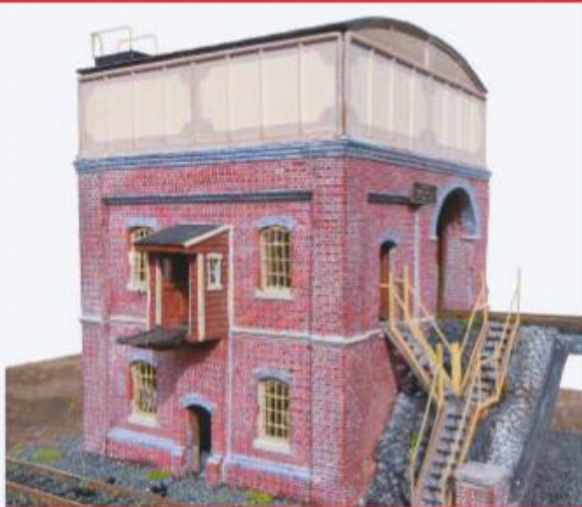
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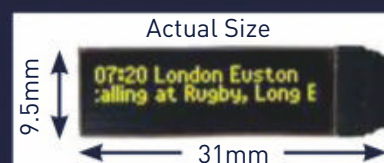
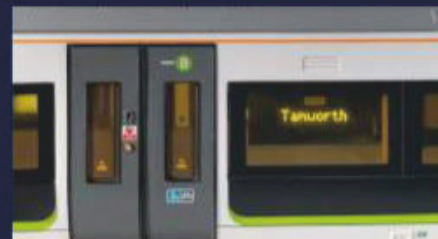
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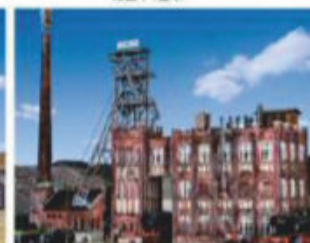
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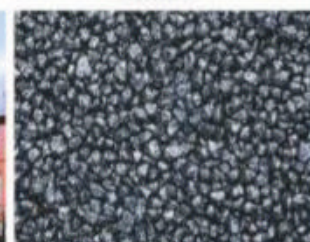
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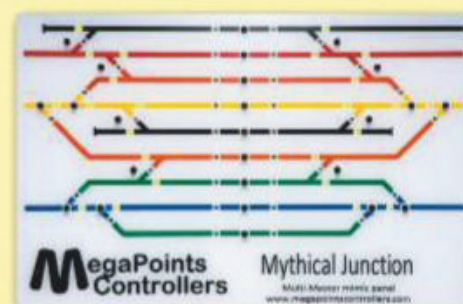
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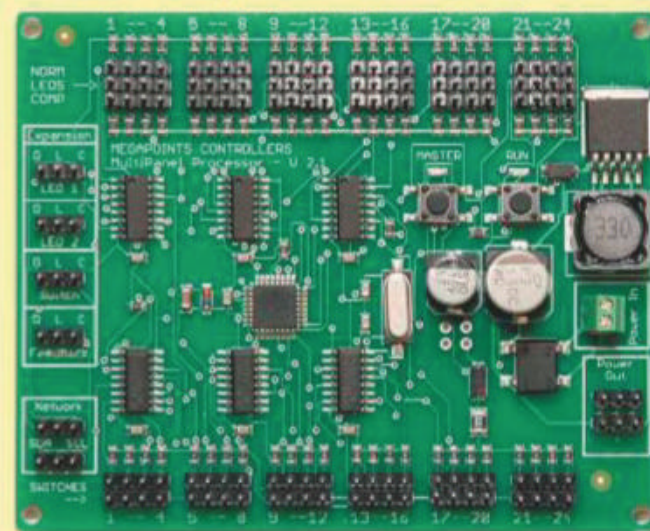
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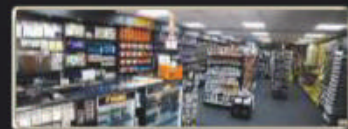
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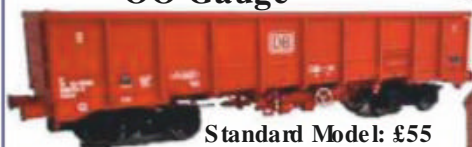
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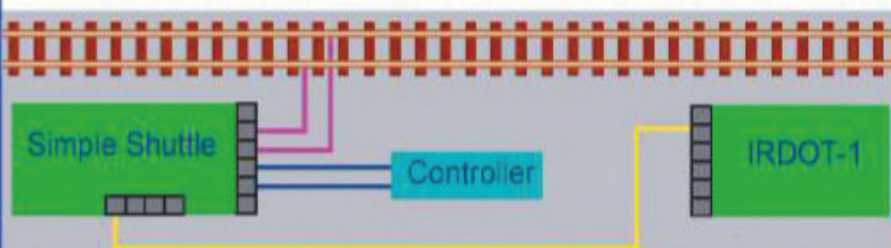
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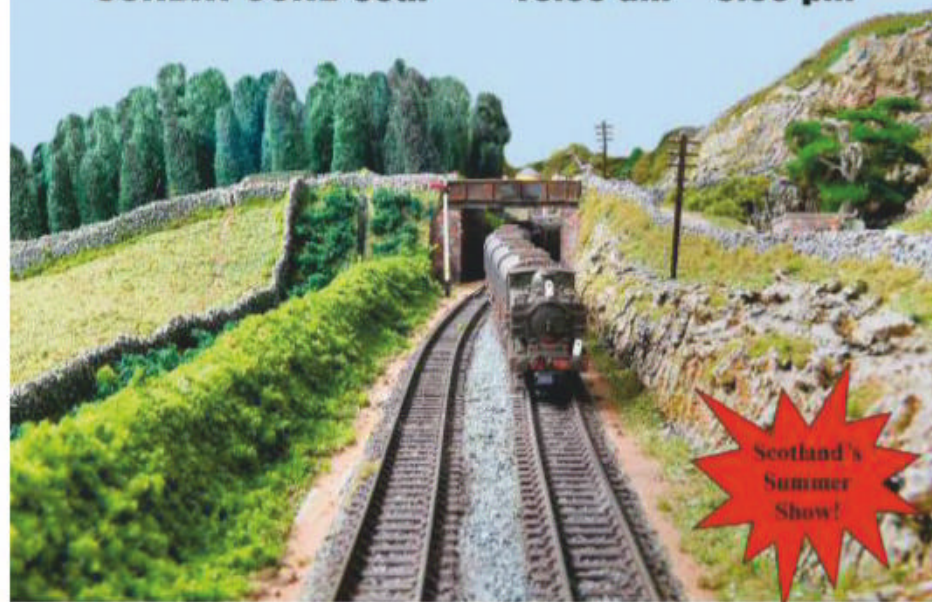
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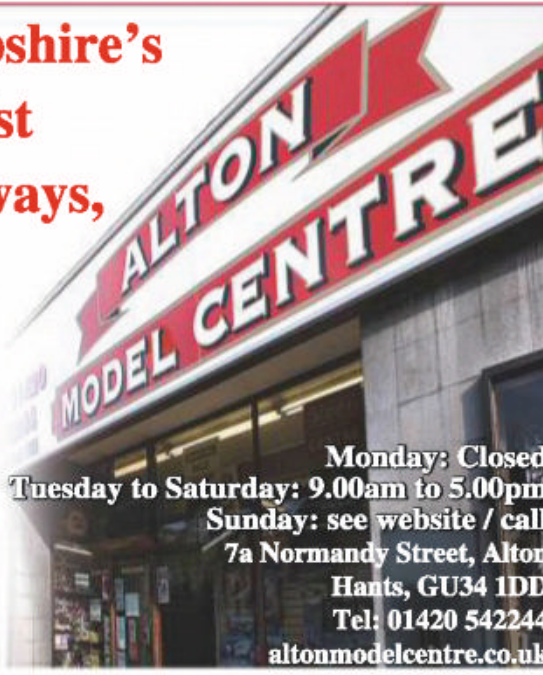
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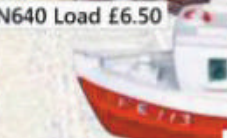
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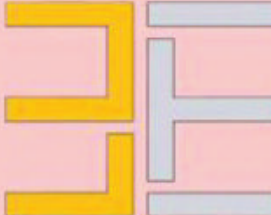
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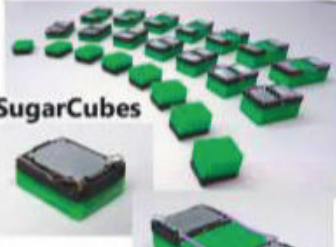
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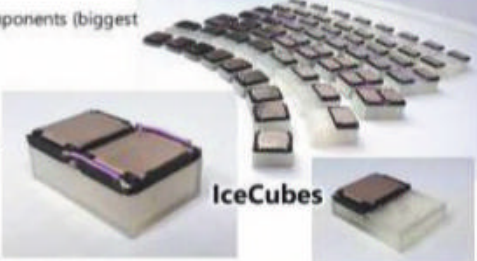
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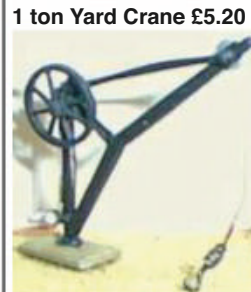


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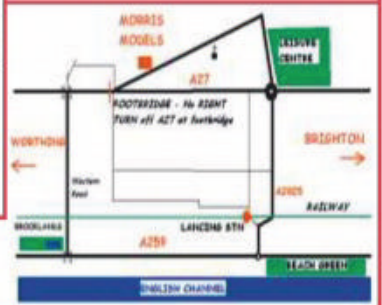
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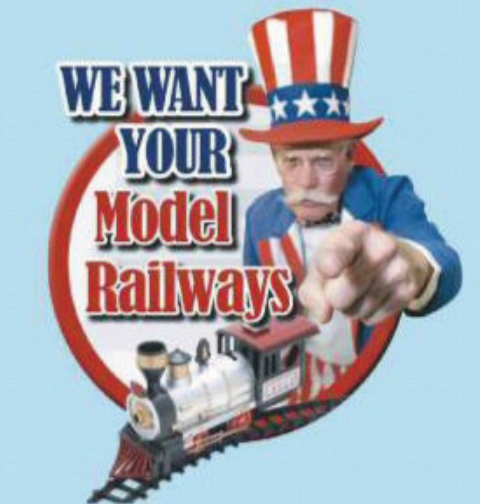
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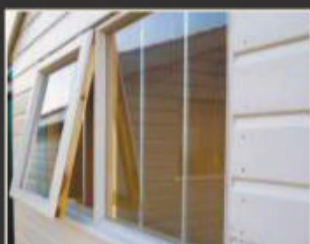
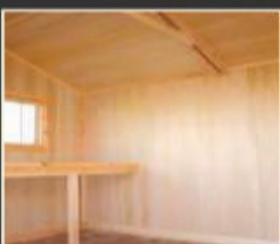
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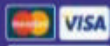
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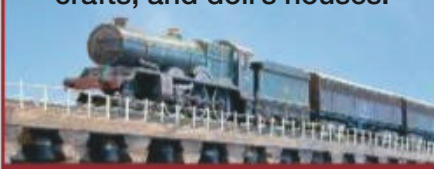
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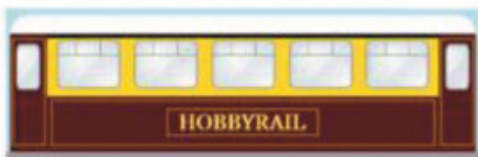
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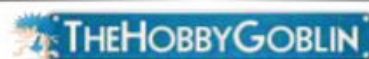
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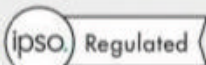
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Present your case

If there's a locomotive that you think needs to be offered
ready-to-run, here's the place to voice your opinion...

Locomotive: Class 313/314/315/507/508 EMUs

Gauge: '00'

Proposed by: Paul Harman

What is it?

A family of three-car (Class 313, 314, 507) and
four-car (Class 315, 508) EMUs introduced in
the mid-1970s to replace pre-nationalisation
units on inner suburban services running on
25kV AC ('314', '315'), 750V DC ('507', '508') or
both ('313'). Based on the experimental 'PEP'
(Class 445 and 446) design developed in
1972, they were destined to be the future of
inner suburban style throughout England
and Scotland.

If you visited London in the early 1980s you
would have seen these new EMUs in blue and
grey operating out of many of London's
termini from Holborn Viaduct and Moorgate to
Liverpool Street, King's Cross, Euston and
Waterloo. North of London, they served
destinations to a little beyond the furthest
reaches of the Underground, such as Watford
Junction, St Albans Abbey, Welwyn Garden
City, Shenfield, Southend Victoria and
Southminster. They covered an equally wide
area south of the Thames too. As well as
London, the Class 507 variant was delivered
to Merseyside and the Class 314 to Strathclyde
for inner suburban services.

BREL built 755 cars in total, so they were
far too numerous to be ignored as they
spearheaded a smart new look to the
electrified commuter railway with their
unusual 'tunnel friendly' profile and cham-
fered corners. Later, they'd serve the North

London line from Richmond to North
Woolwich and the South Coast line too.

What would make it viable?

Almost everyone modelling an electrified urban
inner suburban prototype will need a train or
two from one of these classes. They often run in
six-car or eight-car sets so there is plenty of
scope for multiple sales. They've had a 40-odd
year career and are still in front line service,
which makes them an essential part of the
current scene. It also means that they've carried
a whole host of post-privatisation liveries, as
well as BR colour schemes. In fact, 313201 - the
first of BR's 'second generation' EMUs to enter
service - was repainted in original BR blue/grey
in 2017 to mark its place in railway history.
The coaches are short, at only 20m long so
a three-car set will not take much more space
than a modern two-car DMU.

Having to scabble around to find suitable
stock to run on 'Walford' for Channel 5's
Great Model Railway Challenge really
brought home how important a modern
inner suburban EMU is and how it's an area
sadly lacking in 'OO' gauge RTR. There is
none more ubiquitous than the 'PEP'-derived
EMUs, so whether you model DC, AC, or both,
and whether your layout is big or small,
there's a 'PEP'-derived EMU for you.

Can I see a real one?

Where to start? Try Brighton, Liverpool,
Glasgow and, of course, north London,
around Euston, Finsbury Park and Willesden
Junction. Or you could head east to Moor-
gate, Liverpool Street and Stratford.



Have your say

Do you agree with Paul's
argument? Go to www.model-rail.co.uk
and take part in our vote.

How to join in

Want to present your own case? Send us
400 words explaining your choice to
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PAUL CHANCELLOR/COLOUR RAIL



NIGEL BURKIN/COLOUR RAIL

Backscene

Musings we couldn't fit into the issue elsewhere, but which seemed very important at the time...



George Dent,
Deputy Editor

I've had reason to travel to and from Eccles quite a bit recently. Although I must have passed through this location hundreds of times over the years, I'd never alighted at the station before. Despite boasting the historical importance of being one of the earliest stations on Stephenson's 1830 Liverpool & Manchester line, there is now no trace of the fine original station building, which was destroyed by arson in 1971.

However, local community groups have made quite an effort to improve the appearance of the bleak platforms, with well-tended plants and plenty of historical information boards erected.

Of special note is an attractive new sign at street level, consisting of a laser-cut alloy panel mounted to a mock sleeper background. Depicting a range of traction types associated with the line, Stephenson and his Rocket are surmounted by



Above: The stylish sign outside Eccles station.

Left: The Weaste branch, which runs from Eccles to the Manchester Ship Canal, hasn't carried a train for a while. BOTH PHOTOS: GEORGE DENT

what looks like an LMS 'Black Five'. I was particularly impressed by the stylish rendition of a Class 40, while a Class 319 stands atop the pile. These EMUs are now the staple fare on the hourly stopping services between Piccadilly and Lime Street.

Hemmed in beside a busy motorway, Eccles station can never be classed as picturesque, but there are some interesting features. The mothballed Weaste freight branch is still extant (looking like something from a Chris Nevard layout), along with a passing loop, and the elderly signal box nearby is still in use.

Modelling hours this month: 10
Note to self: Make the effort to explore more of the intermediate stations on the old L&M route.



Richard Foster,
Editor

There are numerous publications available that list the locations of preserved locomotives and multiple units but, in my view, the original is still the best.

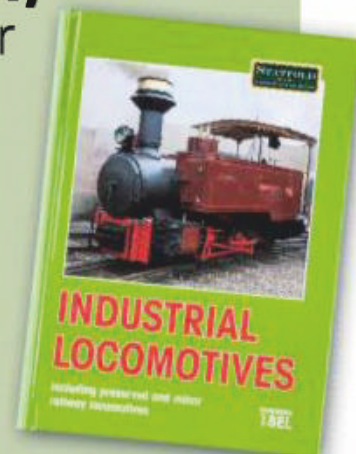
I've been after a copy of the Industrial Railway Society's *Industrial Locomotives* book for ages, so I was really pleased that the IRS has just published a new version for 2019. It's significant too, for the very first edition was published 50 years ago, in January 1969 – the first full year without standard gauge steam in action on BR.

What makes *Industrial Locomotives* great is that it lists the current location of every locomotive and multiple unit in the British Isles that's not owned by a main line railway company. That includes all industrial locations, military depots, preserved railways, museums, private collections and public spaces, such as parks and gardens. And it's not just locomotives that are included – enthusiasts can even track down the location of things like Unimogs and Land Rover ro-rail vehicles.

Did you know that there was an 1893 De Winton 0-4-0VBT at a private location in Newbury, Berkshire? Or that there's a Finnish 2-8-0 at a scrapyard in Newquay? Or that there's a former London Underground car in London's Great Ormond Street hospital that acts as a radio studio?

Or have you simply always wanted a full list of narrow gauge diesels still operated by Bord Na Móna? Or locomotives still in use by the Ministry of Defence?

This is a truly superb resource that the internet will never better. Order your copy from www.irsociety.co.uk



Modelling hours this month: 2

Note to self: Get a track cleaner, wheel cleaner and continuity tester – now to sort 'Gedney's' electrical gremlins!

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.



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