SUMMER SPECIAL **12** LAYOUTS!

CLOSING DATE 25/8/2020 **WIN** Hornby's new 'Prairie' tank

WORTH £140

HORNBY magazine

Issue 158 **August 2020** USA $13.75 · CAD $15.25 · AUS $14.80 **UK £4.80**

LATEST 'OO' REVIEWS

Hornby's 'Large Prairie'

Bachmann's Class 117

SLW's updated Class 24

ALSO REVIEWED

- The latest accessories
- Kernow limited editions
- Farish Thompsons for 'N'

UNDERGROUND SOUND

Bring your S Stock to life with new ESU decoders

BEST LAYOUTS

Our **TOP 10** model railways - **OF ALL TIME!**

PLUS

NEELY IN 'N' GAUGE
Modern image digital exhibition layout

THEOBALD'S YARD
Multi-gauge industry built to 7mm scale

MODELLING GUIDES

- Weathering with washes
- Creating streams and brooks
- Build a laser cut signalbox
- Garden railway construction

AUGUST 2020 **US** $13.75 **Can** $15.25 **Aus** $14.80 **UK** £4.80

9 771753 246113 08

KEY

www.hornby.com

The Beatles Yellow Submarine

Eurostar's first use of the Class 373 for an external agency marketing campaign took place in September 1999 when the Sets 3005/3006 were transformed with a vinyl wrap that recreated scenes from The Beatles' film 'Yellow Submarine'. This was just one of the promotional events that marked the release of the remixed music track that Autumn.

Along with the remastered version of the film that was released in cinemas and on video, the film which had not been available for over a decade included scenes that were edited out of the original, while the album featured new mixes of songs, such as 'With A Little Help From My Friends' and 'Lucy In The Sky With Diamonds', the first such time a Beatles album had ever been remixed.

PLEASE NOTE: The product images shown above for R1253M, R3829 and R40001 are a representation of the decoration on side 1 and side 2 of each model contained within each pack.

www.facebook.com/officialhornby

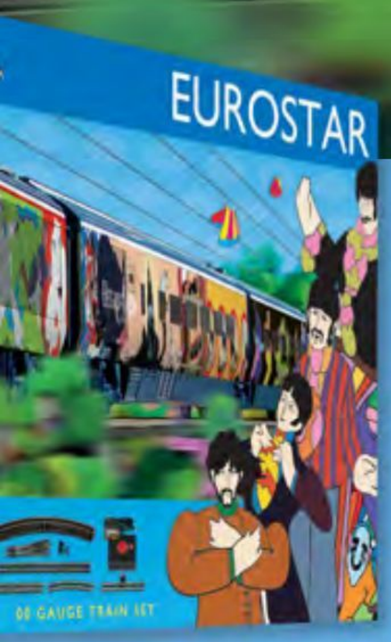
www.twitter.com/hornby

www.instagram.com/officialhornby

www.youtube.com/hornbyhobbiesltd

©2020 Subafilms Ltd. A Yellow Submarine TM Product. TM Trade Mark of Subafilms Ltd. ©1968. Authorized Beatles TM Merchandise.

HORNBY®



R1253M EUROSTAR TRAIN SET

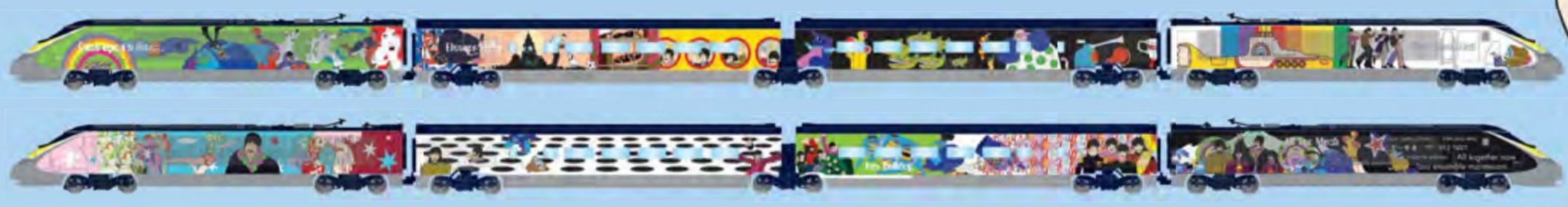
ROLLING STOCK

Eurostar, Class 373 Power Driving Car + Eurostar, Class 373 Dummy Driving Car, 2 x Eurostar, Class 373 Passenger Saloons, with non-working pantographs

TRACK & ACCESSORIES

3rd Radius Starter Oval, with Track Pack A (includes point and buffer)
Train Controller (R8250), Wall Plug Transformer (P9000W), Power Connecting Track (R8206), Re-Railer, Hornby MidiMat (1600 x 1180mm)

Also available Eurostar Class 373 Train Pack and Coach Pack



R3829 EUROSTAR TRAIN PACK

Eurostar, Class 373 Power Driving Car + Eurostar, Class 373 Dummy Driving Car, 2 x Eurostar, Class 373 Passenger Saloons, with non-working pantographs

R40001 EUROSTAR COACH PACK

Eurostar, Class 373 Divisible Centre Saloon Coaches x 2

HORNBY magazine

August 2020

Editor: Mike Wild
Assistant Editor: Mark Chivers
Associate Editor: Richard Watson
Senior Designer: Steve Diggle
Sub-editor: Andrew Roden
Contributors: Evan Green-Hughes, Brian Stephenson, Tim Shackleton, Graham Gaches, Julia Scarlett, Trevor Jones, Anthony Reeves, Simon Bendall, Richard Boothby and Martin Coombs.

EDITORIAL ADDRESS
Hornby Magazine, Key Publishing,
PO Box 100, Stamford, Lincolnshire PE9 1XQ
Tel: 01780 755131
E-mail: hornbymagazine@keypublishing.com
Website: www.keymodelworld.com

ADVERTISING
Phone: 01780 755131
Head of Commercial Sales: Brodie Baxter
E-mail: brodie.baxter@keypublishing.com
Sales Executive: Alison Chater
E-mail: alison.chater@keypublishing.com
Sales Executive: Ashley Smalley
E-mail: ashley.smalley@keypublishing.com
Deputy Advertisement Production Manager: Kay Townsin
Email: kay.townsin@keypublishing.com
Advertising Production/Design: Becky Antoniades
E-mail: rebecca.antoniades@keypublishing.com

ADVERTISING ADDRESS
Hornby Magazine, Key Publishing Ltd,
PO Box 100, Stamford, Lincolnshire PE9 1XQ

SUBSCRIPTIONS/MAIL ORDER
PO Box 300, Stamford, Lincolnshire PE9 1NA, UK
Telephone: 01780 480404
E-mail: Subscriptions - subs@keypublishing.com
E-mail: Mail Order - orders@keypublishing.com
Having difficulty obtaining your copy of *Hornby Magazine?*
Please contact the subscriptions team using the details above.

PUBLISHING
Head of Production: Janet Watkins
Head of Content: Hans Seeberg
Head of Design: Steve Donovan
Head of Advertising: Brodie Baxter
Head of Distance Selling: Martin Steele
Head of Content Management: Finbarr O'Reilly
Head of Finance: Nigel Cronin
Chief Digital Officer: Vicky Macey
Chief Content & Commercial Officer: Mark Elliott
Publisher: Mark Elliott
Group CEO: Adrian Cox
Registered Office: Units 1-4, Gwash Way Industrial Estate, Ryhall Road, Stamford, Lincolnshire PE9 1XP

PRINTING
Printed at William Gibbons Ltd., Willenhall, UK.

DISTRIBUTION
Seymour Distribution Ltd., 2 Poultry Avenue, London EC1A 9PP

Hornby Magazine, ISSN 1753-2469 (USPS 22550), is published monthly by Key Publishing Ltd, PO Box 300, Stamford, Lincolnshire, PE9 1NA, UK.

The US annual subscription price is $72.99. Airfreight and mailing in the USA by agent named WN Shipping USA, 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA. Periodicals postage paid at Brooklyn, NY 11256.

US Postmaster: Send address changes to *Hornby Magazine*, WN Shipping USA, 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA

Subscription records are maintained at Key Publishing Ltd, PO Box 300, Stamford, Lincolnshire, PE9 1NA, UK. Air Business Ltd is acting as our mailing agent.

© Key Publishing Ltd 2020

All rights reserved. No part of this magazine may be reproduced or transmitted in any form by any means, electronic or mechanical, including photocopying, recording or by any information storage and retrieval system, without prior permission in writing from the copyright owner. Multiple copying of the contents of the magazine without prior written approval is not permitted.

Material sent to the Editor, whether commissioned or freely submitted, is provided at the contributor's own risk; Key Publishing Ltd cannot be held responsible for loss or damage howsoever caused.

The opinions and views expressed by authors and contributors within *Hornby Magazine* are not necessarily those of the Editor or Key Publishing.

We are unable to guarantee the bona fides of any of our advertisers.
Readers are strongly recommended to take their own precautions before parting with any information or item of value, including, but not limited to, money, manuscripts, photographs or personal information in response to any advertisements within this publication.

HORNBY is a registered trade mark of Hornby Hobbies Limited and is used under licence.

Audit Bureau of Circulation 25,636 newsstand and digital sales.

***Hornby Magazine* is published on the first Thursday of each month preceeding the cover date.**

ISSUE 158

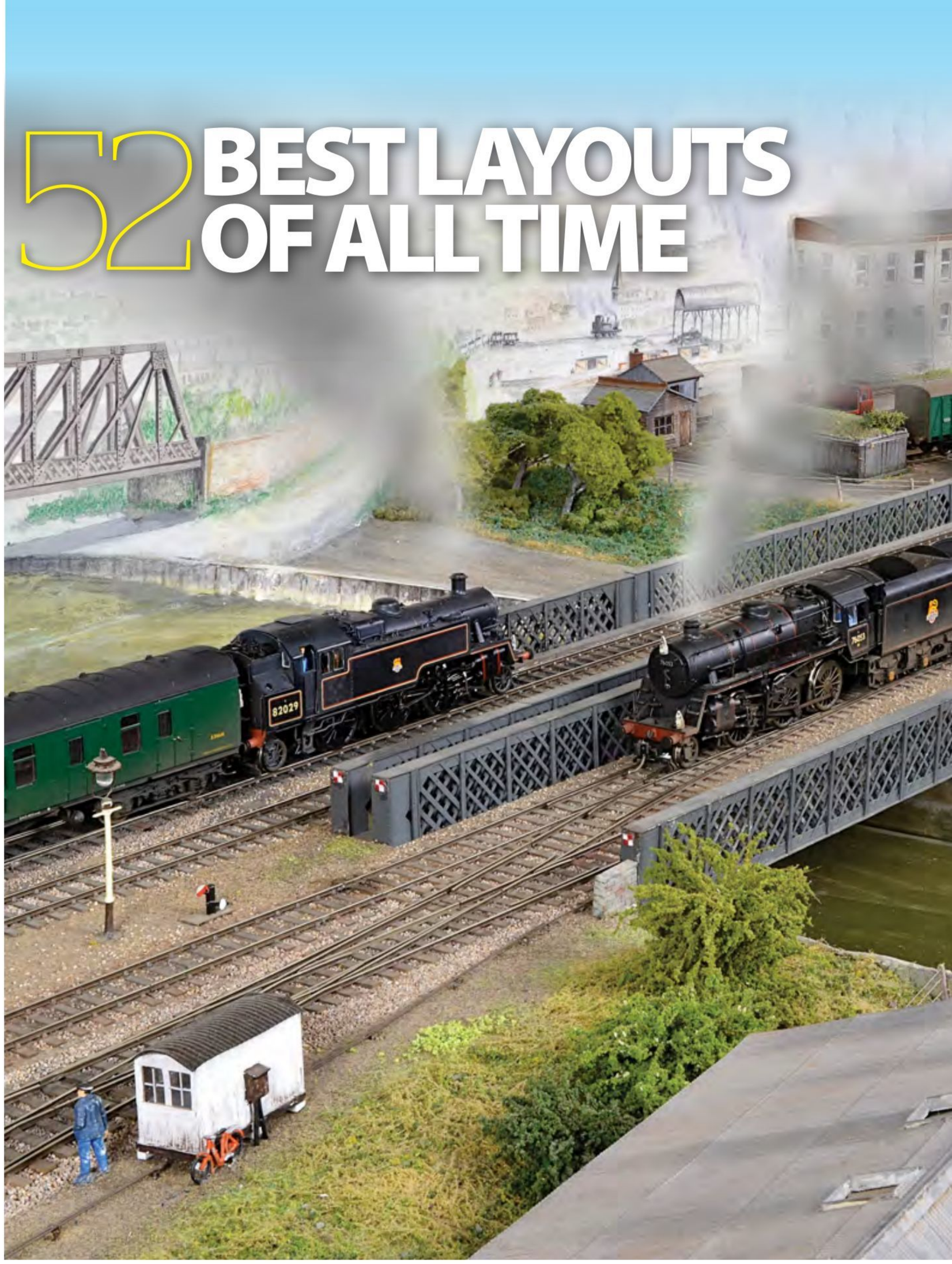
ISSN 1753-2469

HORNBY magazine

LATEST OFFERS

See pages 24-25 for full details.

52 BEST LAYOUTS OF ALL TIME



WE SHOW YOU HOW!

26 **WEATHERING**
Tim Shackleton applies some military modelling weathering techniques to a 'HO' scale 'S160' 2-8-0, with stunning results.

32 **MAKING A SCENE**
Anthony Reeves shows how to create realistic streams and brooks with readily available materials and simple techniques.

38 **WORKBENCH**
Richard Watson builds Display Models' new 4mm scale laser-cut BR Type 19 signal box kit.

96 **DIGITAL CONTROL**
Mike Wild goes underground as he upgrades London Transport Museum's 'OO' gauge S Stock with a new digital sound project and extra functionality.

KEY STORE FINDER
To find a stockist near you, visit www.hornbymagazine.com

What's inside

7 **EDITORIAL**
Mike Wild introduces the latest issue of *Hornby Magazine*.

8 **UPDATE**
Hornby shares Thompson 'A2/2' and 'A2/3' progress, new model announcements from Revolution Trains and KMS Railtech, project updates from Accurascale, Dapol, Heljan, Rails of Sheffield and more. Plus, you could win one of Hornby's new 'OO' gauge GWR 'Large Prairies', worth £140, in our exclusive competition.

16 **NEELY**
Scunthorpe Modern Image Group's outstanding contemporary 'N' gauge exhibition layout takes inspiration from the cathedral city of Ely in Cambridgeshire.

42 **OPERATION**
Following release of Accurascale's 'OO' gauge PFA two-axle container flat wagons, Simon Bendall takes an in-depth look at the full-size vehicles in use on nuclear waste traffic.

48 **HORNBY 100**
Mark Chivers looks back at Hornby's manufacturing move to China as we continue celebrating the model maker's centenary year.

52 ***HORNBY MAGAZINE'S* BEST LAYOUTS**
With almost 500 published layouts to choose from in our archive, we present *Hornby Magazine's* all-time favourites in a special 15-page feature.

74 **REALITY CHECK**
Evan-Green Hughes delves into the history of the popular Pressed Steel Class 117 Diesel Multiple Units.

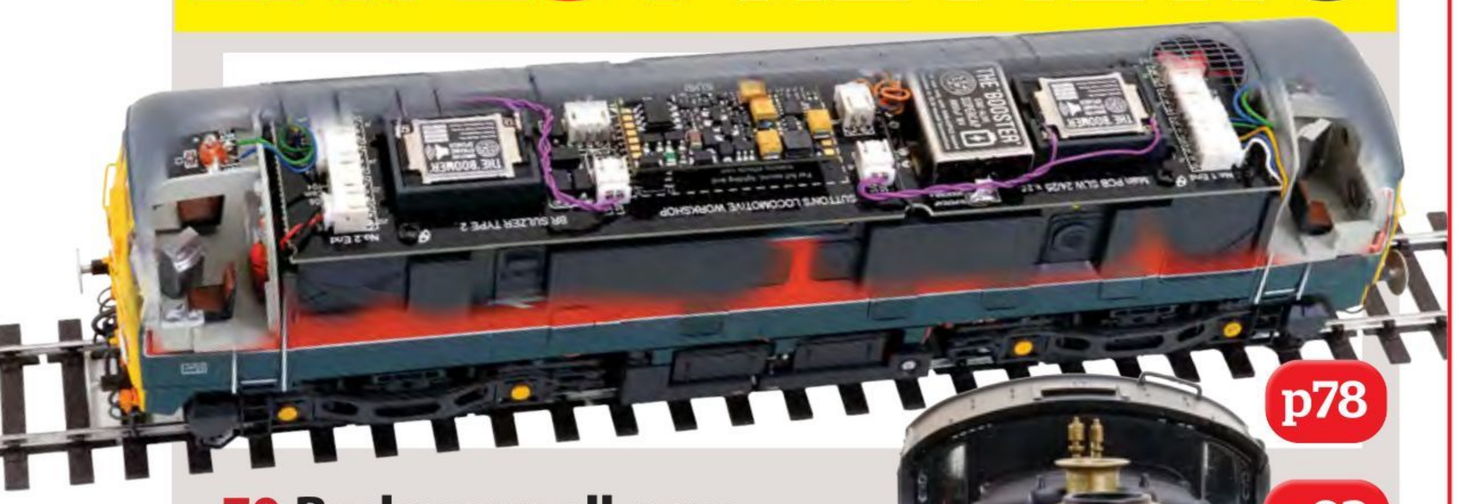
102 **THEOBALD'S YARD**
Martin Coombs reveals the fascinating back-story of Orpington and District Model Railway Society's inspirational multi-gauge 7mm scale industrial exhibition layout.

110 **RAILWAY REALISM**
Evan Green-Hughes recalls the special breed of heavy freight locomotives required to satisfy traffic demands during the Second World War.

116 **STAFF PROJECTS**
Mike Wild outlines construction and development of the return loop and power system on his outdoor 'O' gauge garden layout.

120 **SHOW GUIDE**
Hornby Magazine's guide to forthcoming events.

LATEST REVIEWS



70 Bachmann all-new 'OO' Class 117 DMU
78 Upgraded SLW Class 24
82 Hornby 'OO' GWR 'Large Prairie' 2-6-2T
86 Farish Thompsons for 'N'

p78

p82

ALSO REVIEWED...

The latest releases from Bachmann, Graham Farish, Hornby, Kernow Model Rail Centre, Sutton's Locomotive Works, Tenshodo, Pacific Models and more.

SUTTON'S LOCOMOTIVE WORKSHOP
S LW
KING'S CLIFFE, ENGLAND

SEEING IS BELIEVING!

NEW LIVERY

D5021 in POLYURETHANE BLUE

IN STOCK & READY FOR IMMEDIATE DESPATCH!

WE ARE OPEN FOR TELEPHONE ORDERS

SEE THE REVIEW IN THIS ISSUE
Pages 78-80

SUPERB TWIN-SPEAKER DCC SOUND & 'STAY-ALIVE' OPTION

D5021

Call us on 01780 470086 or visit www.sulzertype2.com

THE EDITOR'S PAGE

Welcome

HOW DO YOU choose only 10 of the best layouts for a special feature? That was the first question on our minds when we started creating this issue of *Hornby Magazine*.

The answer is it's tough - we discussed, made cases, re-evaulated, reviewed, reflected and judged the 470+ model railways featured in the pages of *Hornby Magazine* since issue one to select what we think are the best. You might disagree, and we'd love to hear your thoughts on which layouts tick all the boxes for you.

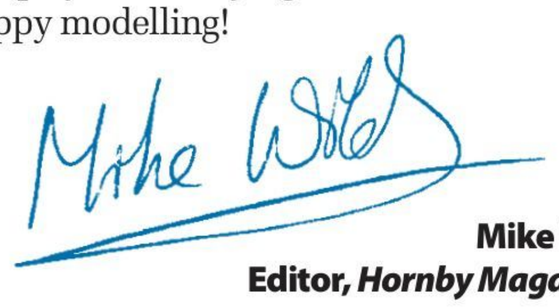
If you want to get more on the thought process for our Summer Special feature, check out *KeyModelWorld.com* for a special video featuring Mark Chivers and I talking about our selection and some of the layouts which were so close to inclusion.

Mention of *KeyModelWorld.com* leads me on to another important point. *Hornby Magazine* is no longer the end of your monthly model railway journey. To support every issue we are creating more and more extra content including videos showcasing the running qualities of new releases, extensions to the features you see in the magazine and even bespoke articles for the online world. Some of that content is only available only to magazine subscribers, but it also means that right now is one of the best times to take out a subscription to *Hornby Magazine*, as access to *KeyModelWorld.com* is currently included in the price for free! Whichever way you choose to use our new website, there is modelling inspiration for you including the latest news - free for all - the chance to enter our latest competitions, features, videos, product reviews and more. We are developing the site all the time and we have a huge list of plans for the future.

Nevertheless, as I've said before, *Hornby Magazine* is the heart of everything that we do and we've been hard at work generating all the articles, features and reviews for HM158 over the past few weeks. It's packed to the rafters as usual and we hope everyone will find something to entice their modelling eye.

From all the team at *Hornby Magazine* we hope you are staying safe and well.

Happy modelling!



Mike Wild
Editor, *Hornby Magazine*

IN YOUR MAGAZINE AUGUST 2020

LATEST REVIEWS

70 BACHMANN'S CLASS 117
The three-car Class 117 high-density first generation DMUs are the latest all-new product to arrive from Bachmann. We take a closer look at these impressive 'OO' models.

78 SLW'S UPDATED CLASS 24
Sutton's Locomotive Works has introduced a raft of updates for its Derby Type 2 - the Class 24. Join us as we explain all that you can expect from this outstanding 'OO' diesel.

82 HORNBY'S NEW 'PRAIRIE'
The humble GWR 'Large Prairie' is making a welcome return to the 'OO' gauge scene with a brand-new tooling from Hornby. Get the full story on this fine 2-6-2T which is arriving in the shops now.

DIGITAL CONTROL

96 The London Transport Museum S Stock is an attractive model which holds great potential for digital sound and lighting upgrades. We show you how using a new Legomanbiffo sound profile.

WIN HORNBY'S NEW '61XX'

08 *Hornby Magazine* competition's are back and this issue we are offering the chance to win one of Hornby's brand-new GWR 'Large Prairie' 2-6-2Ts. Turn to page 8 now to find out how to enter.

INSPIRATIONAL LAYOUTS

16 NEELY
Scunthorpe Modern Image Group saw the potential of owning their own exhibition layout in 'N' gauge and Neely was the perfect answer.

52 BEST LAYOUTS OF ALL TIME
We select ten of the best model railways to feature in *Hornby Magazine*!

102 THEOBALD'S YARD
Multi-gauge in 7mm scale is the theme of this inspirational industrial scene by the Orpington and District MRS.

PLUS

- Learn how to weather with washes
- Create streams and brooks with our guide
- The secrets of a laser cut signalbox
- Discover how to build a garden railway

DISCOVER EXCLUSIVE ONLINE CONTENT

Make www.keymodelworld.com your new scale modelling destination!

A2/2 AND A2/3 SAMPLES DEBUT

Hornby has received the first engineering samples for its 'OO' gauge models of the LNER 'A2/2' and 'A2/3' 4-6-2s. Detail variations are catered for on each of the models.

HORNBY has taken delivery of the first engineering samples of its new 'OO' gauge Thompson 'A2/2' and 'A2/3' class 'Pacifics', together with an early running sample for evaluation by the company's development team.

Announced in early January, two Thompson 'A2/2' 4-6-2s are planned as 60501 *Cock o' the North* in BR lined green with early crests (R3830) and 60505 *Thane of Fife* in BR lined green with late crests (R3831), while four Thompson 'A2/3' 4-6-2s will appear as 500 *Edward Thompson* in LNER green (R3832), 514 *Chamossaire* in LNER green (R3833), 60512 *Steady Aim* in BR lined green with early crests (R3834) and 60523 *Sun Castle* in BR lined green with late crests (R3835).

Models will feature a five-pole skew wound motor, 8-pin DCC decoder socket, space for a 28mm diameter speaker and NEM coupling pockets.

Extensive research by the development team will enable Hornby to model two cab types for the 'A2/2s', together with alternative chimneys, smokebox door layouts, lamp brackets and more. Meanwhile, the 'A2/3' tooling suite boasts two boiler types, six smokebox door layouts, different chimneys as well as countersunk and snap-head rivetted examples of the 1936 pattern tenders.

Prices are set at £189.99 each, with delivery currently slated for late 2020/early 2021.

● **Visit *www.hornby.com* for more details.**

COMPETITION

WIN

A BRAND-NEW HORNBY GWR 'PRAIRIE' FOR 'OO' GAUGE

WORTH £140

RAILROAD+ CLASS 47 DECORATION SAMPLES

Hornby has received decorated samples of its forthcoming 'OO' gauge RailRoad Plus models, with three colourful GB Railfreight Class 47s leading the charge.

Utilising Hornby's reworked (ex-Lima) Class 47 as the basis, the models promise an enhanced level of decoration to include orange cantrail lining, overhead warning flashes, numbers, data panels and GBRf logos, plus a pair of separate nameplates (where appropriate).

Hornby's trio of GB Railfreight Class 47s include 47727 *Edinburgh Castle/Caisteal Dhun Eideann* in Caledonian Sleeper livery (R3905), 47739 in GBRf blue (R3906) and 47749 *City of Truro* in GBRf rail blue. Priced at £74.99 each, delivery is expected this autumn.

● **Visit *www.hornby.com* for more details.**

New 'Terriers' inbound

A new selection of Hornby's diminutive 'OO' gauge Stroudley 'Terrier' 0-6-0Ts are on their way.

Amongst the shipment is Hornby's special Centenary Year limited edition as 45 *Merton* in London Brighton and South Coast Railway (LBSCR) improved engine green (R3823). Utilising Hornby's latest tooling, this model will appear in a special commemorative box with 'Top Link' packaging reminiscent of the late 1990s, when Hornby added the former Dapol-tooled 'Terrier' to its range. Three standard 'Terriers' are also due in both DCC ready and DCC fitted forms, including 40 *Brighton* in LBSCR improved engine green (R3845/X), 735 in London and South Western Railway lined green (R3846/X) and W14 *Bembridge* in Southern Railway lined olive green (R3847/X).

Prices are set at £94.99 DCC ready and £114.99 DCC fitted for standard models, while the Centenary Year limited edition is priced at £104.99. Delivery is expected later this summer.

● **Visit *www.hornby.com* for more details.**

HORNBY'S NHS LIVERY COMPETITION WINNER

Congratulations to James Lodge who was unveiled as the winner of Hornby's recent NHS livery competition, which raised over £3,000 for charity.

Launched in April 2020, the competition aimed to boost awareness for key workers within the NHS at the time of the COVID-19 outbreak, as well as raise money for charity. Participants were invited to design the livery on a Hitachi IEP Class 800 driving car. *Hornby Magazine's* editor, Mike Wild, selected the winning design from more than 500 entries.

James' winning design netted him his very own 'OO' gauge Hitachi Class 800 power car bearing his rainbow 'Thank You' NHS livery design. A second model was also won by Matthew McAdam who was thrilled to be selected at random from the list of people who donated £3,385 to Hornby's Just Giving page. Both winners will receive their prize in bespoke boxes with an official Hornby 'R' number and certificate.

● **Visit *www.hornby.com* for more details.**

QUESTION: Where were the GWR *'Large Prairies'* built?

a. Swindon b. Crewe c. Doncaster

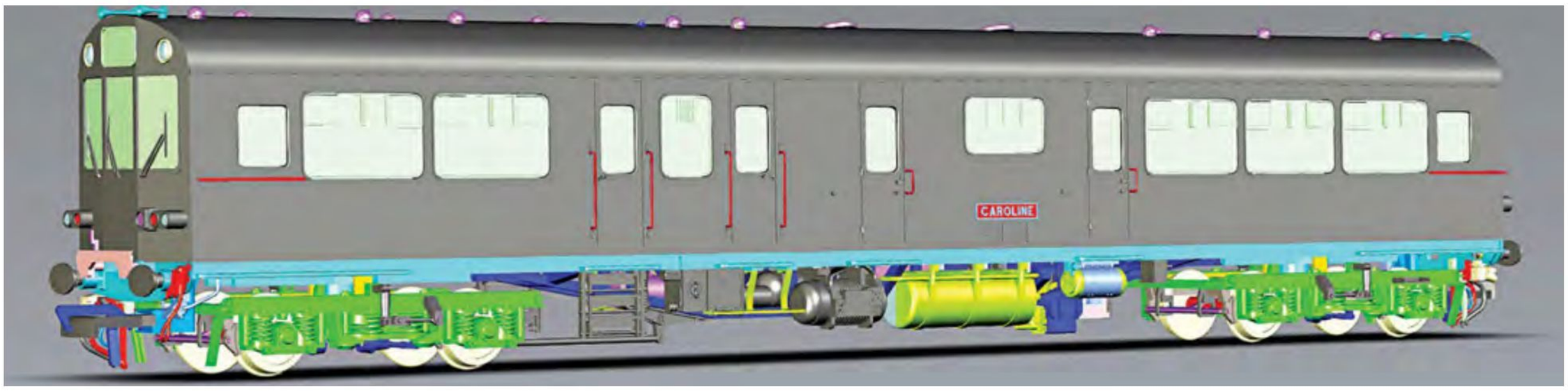
Hornby Magazine is offering the chance to win one of Hornby's latest arrivals – GWR 'Large Prairie' 2-6-2T 6110 in Great Western lettered green (R3721). The new collection of Swindon-built 2-6-2Ts, covering both the '5101' and '61XX' series locomotives, were arriving with retailers at the end of June as *Hornby Magazine* closed for press. Read our full review of the new 'Prairie' on pages 82-85.

To enter the competition and be in with a chance of winning this superb 'OO' gauge locomotive, all you have to do is answer the simple question above by August 25 2020.

HOW TO ENTER

For your chance to win, simply visit *www.keymodelworld.com*, click the competition tab on the menu and fill in the online entry form. Online entries open at 9am on July 2 and the closing date for entries is August 25 2020 at 5pm GMT. The winners will be notified no later than September 1 2020. There is no cash prize alternative and the Editor's decision is final. Competitions are not open to employees of Key Publishing, Hornby, their family members or anyone else professionally connected to the company. No purchase necessary.

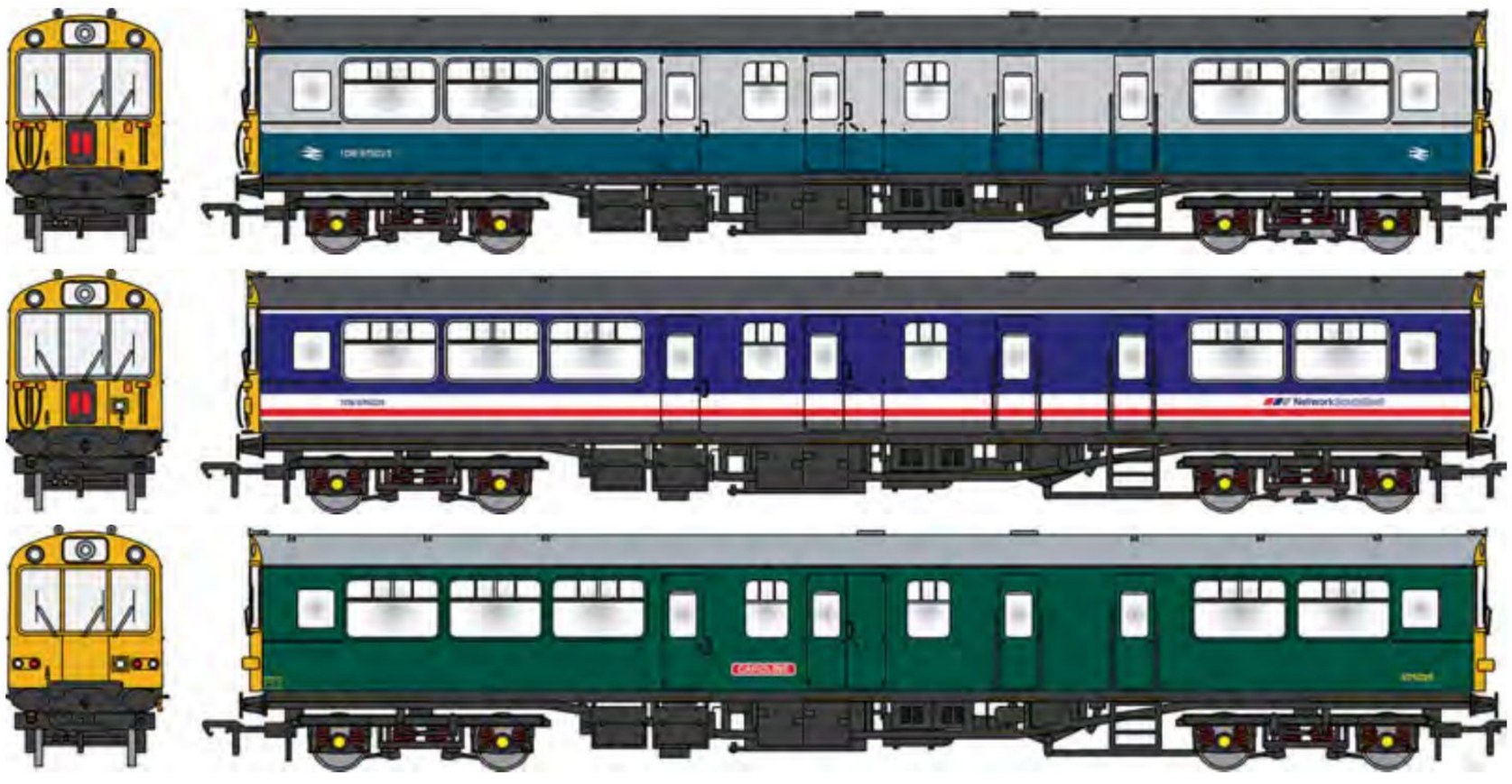
SR GENERAL MANAGER'S SALOON



REVOLUTION Trains (RT) has unveiled plans for a 'OO' gauge ready-to-run model of the unique BR Southern Region General Manager's Inspection Saloon.

The prototype was converted from a Southern Region Hastings Class 203 (6B) Diesel Electric Multiple Unit (DEMU) buffet car in the late 1960s, numbered TDB975025, and was usually hauled/propelled by one of the Region's Class 33 or 73 locomotives, although it was also compatible with much of the BR Southern Region Electric Multiple Unit (EMU) fleet too.

Whilst used primarily for meetings, inspections and line testing, the vehicle famously transported HRH Prince Charles and Diana, Princess of Wales between London Waterloo and Romsey following the Royal Wedding in 1981, conveyed Pope John Paul II from Gatwick Airport to London Victoria on the first stage of his UK tour in 1982 and even formed the first train to enter a section of the Channel Tunnel in 1992. Now named *Caroline*, 975025 is currently in Network Rail ownership and will pass to the National Collection when no longer required.



RT's model will feature era-specific details including SR 27-way jumper cables, third-rail shoe gear, illuminated headcode boxes, solebar step lighting and more. There will also be a 21-pin decoder socket, NEM coupler sockets and directional lighting. Three variants are planned in BR blue and grey (1969-1984), Network SouthEast (1991-2003) and Network Rail Brunswick green (2015-present day).

CAD work is complete and pre-orders are currently being accepted at the 'early-bird' price of £135 each, rising to £149 shortly. Delivery is anticipated in early 2021. Customers pre-ordering at the 'early-bird' price will also be entered into a prize draw to join the RT team for a special railtour in the full-size vehicle.

● **Visit *www.revolutiontrains.com* for further details.**

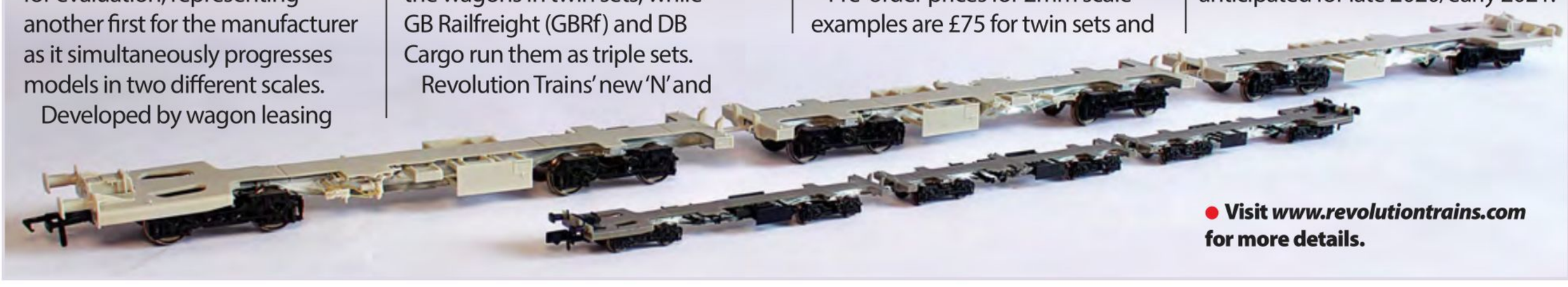
REVOLUTION ECOFRETS SURFACE FOR 'N' AND 'OO'

Engineering Prototype (EP) samples of Revolution Trains' forthcoming Ecofret container wagons in 'N' and 'OO' have arrived for evaluation, representing another first for the manufacturer as it simultaneously progresses models in two different scales.

Developed by wagon leasing specialists VTG in 2012, these 40ft FWA Ecofret container wagons are noticeably shorter than conventional 60ft vehicles. Freightliner operates the wagons in twin sets, while GB Railfreight (GBRf) and DB Cargo run them as triple sets.

Revolution Trains' new 'N' and 'OO' models are due to appear in VTG green, DB red and GBRf blue, with a selection of individually numbered examples offered.

Pre-order prices for 2mm scale examples are £75 for twin sets and £102.50 for triple sets, while 'early-bird' pre-order prices for 4mm scale models are set at £95 for twin sets and £125 for triple sets. Delivery is anticipated for late 2020/early 2021.



● **Visit *www.revolutiontrains.com* for more details.**

KMS Railtech is proposing a 7mm scale Class 47/7 in conjunction with Heljan. On April 22 2003 Class 47/7 47734 Crewe Diesel Depot Quality Assured arrives at Crewe heading the 1.28pm to Holyhead. Mike Wild.

KMS Railtec plans ScotRail 'O' gauge 47/7

KMS Railtec has unveiled ambitious plans to develop an 'O' gauge Class 47/7 diesel locomotive, alongside Heljan's standard model which is due later this year.

British Rail converted a series of Class 47s to push-pull operation in the late 1970s for use on its Edinburgh to Glasgow shuttle services, replacing Class 27s which previously worked in top-and-tail mode.

The Inverurie based retailer is currently looking for expressions of interest at this stage, although pre-orders are also being taken, ahead of the project receiving the green light should there be sufficient interest.

The proposed new made-to-order models would feature new body tooling, long range fuel tanks, time-division multiplex (TDM) jumper cables and aftercooler pipework. Four liveries are planned initially with Class 47/7s in BR 'large logo' blue, BR ScotRail blue stripe, Network SouthEast and Rail Express Systems (RES) colour schemes, while further examples may also appear in Parcels Sector, Fragonset, Waterman Railways and Blue Pullman liveries in due course.

Prices are expected to be £699 each and the intention is to produce the new Class 47/7 variant alongside Heljan's standard 'O' gauge models in late 2020.

● **Visit *www.kmsrailtech.co.uk* for more details.**

Revolution Trains commissions DRS 'O' gauge Class 37/4

Revolution Trains (RT) has unveiled plans to offer its first 'O' gauge model, a limited edition run of Class 37/4 37405 in Direct Rail Services (DRS) 'Compass' livery.

Acquired by DRS in 2011, 37405 remains active in the operational fleet, having worked passenger and freight services including test trains, empty stock moves and nuclear flasks since re-entering service in 2013.

Representing a first for RT, the Class 37/4 has been commissioned from Heljan and will enable the company to assess demand in the 'O' gauge market and is being produced under licence from DRS.

As with Heljan's previously released 'O' gauge Class 37/4s, the models feature two five-pole motors, rotating roof fan, directional lighting, detailed cab interiors and more, while the livery will be reproduced to artwork researched and generated by Revolution Trains.

Priced at £599 (including postage), pre-orders are being taken now. Delivery is anticipated during December 2020/January 2021.

● **Visit *www.revolutiontrains.com***

WARLEY 2020 POSTPONED

Organisers of the 2020 Warley National Model Railway Exhibition have decided to postpone this year's event until 2021. It was due to take place at the National Exhibition Centre (NEC) in Birmingham on the weekend of November 28/29 2020.

In a statement issued by Warley Model Railway Club in mid-June, exhibition manager Nigel Smith explained: "Running an event with the current COVID-19 restrictions – such as adhering to social distancing requirements, restricting attendance numbers and dictating the direction of people around the hall – all ultimately would have impacted negatively on the experience of those attending and therefore the very essence of the show."

Holders of advance tickets for this year's shows will be able to claim a refund or retain their tickets for the 2021 event, which is due to take place at the NEC, Birmingham on November 27/28 2021.

● **Visit *www.thewarleyshow.co.uk* for more information.**

IN BRIEF

■ Revolution Trains (RT) is gauging potential for a Class 89 AC Co-Co electric and Southern Region General Manager's Inspection saloon in 'N' gauge.

Both models are currently subject to 'OO' gauge projects, with Rails of Sheffield working on the Class 89 in partnership with Accurascale, while RT is to produce the Inspection saloon for 'OO' (see separate story, this issue).

● ***www.revolutiontrains.com***

■ The South Downs Area Group of the 7mm Narrow Gauge Association has advised that its Small and Wonderful, Industrial and Narrow Gauge (SWING) Model Railway Exhibition will not return until 2022. Following the cancellation of this year's show in May the event was due to return next year, however the organisers have now taken the decision that given the current uncertainty caused by the COVID-19 crisis, it would make planning that show difficult. Instead, the exhibition which showcases industrial, tram, light and narrow-gauge railways will return on Saturday May 21 2022.

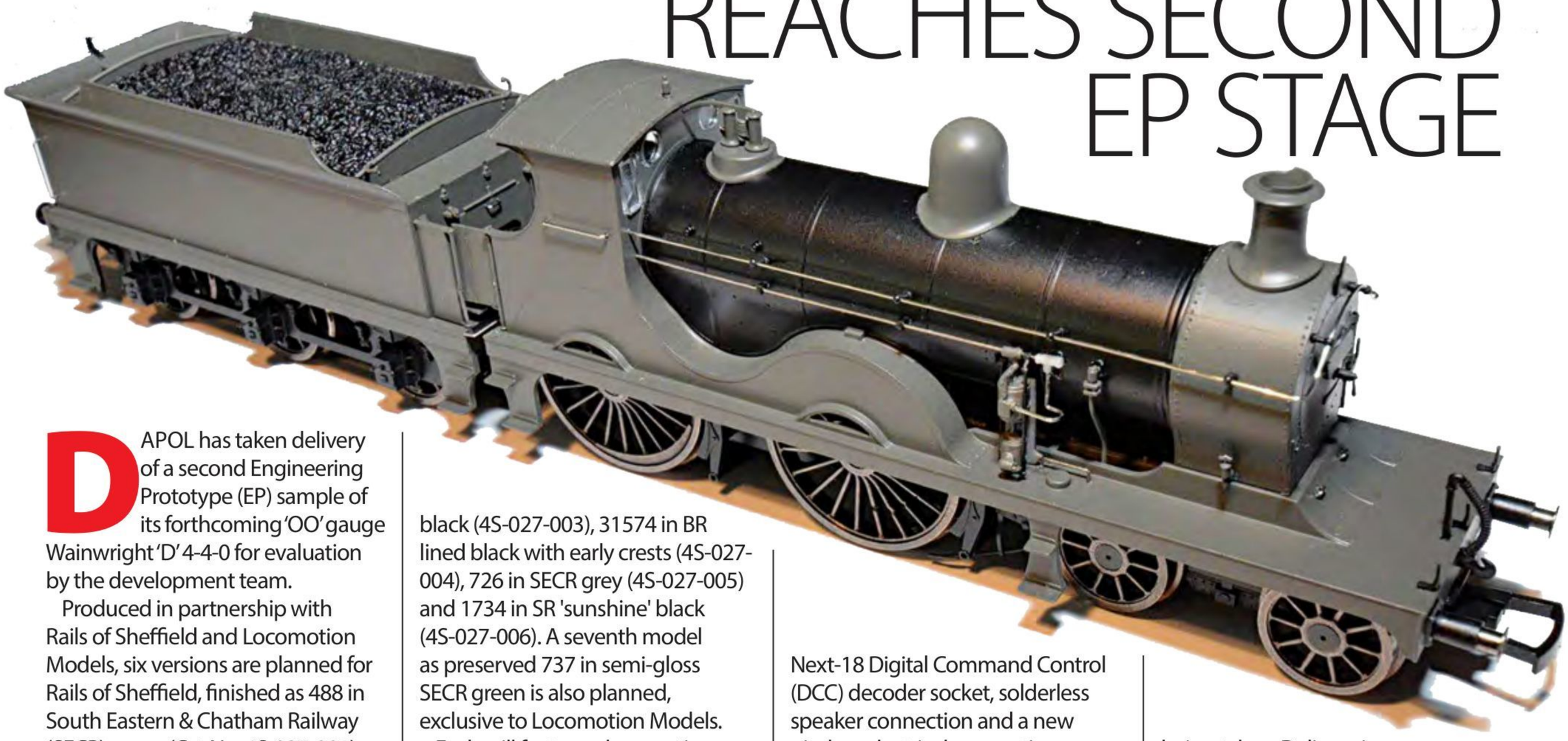
● ***www.swing.model-railway.org.uk***

■ Scalescenes has announced a new canal wharf box file layout as part of its series of flatpack layouts for 'OO' and 'N' gauges. Highlights of the kit, which only requires track to complete, include a ready to print backscene, a full cobblestone sett/tarmac surface and a bonus steel barge kit. It can be completed with 'OO' or 'OO9' narrow gauge track. The canal scene box file layout kit is available now, priced at £9.99.

● ***www.scalescenes.com***

■ Accurascale has taken delivery of the first draft of its 'OO' gauge Class 55 'Deltic' DCC sound project for testing. Each sound-fitted model will feature a twin speaker setup, ESU Loksound V5 decoder, an ESU stay alive capacitor power pack, directional lighting, heavy die-cast chassis, five-pole can motor, twin flywheels and more. While the model's body is currently receiving revisions before production, the manufacturer debuted the sound file's abilities in a special video, which you can view at *www.keymodelworld.com* now.

WAINWRIGHT 'D' REACHES SECOND EP STAGE



DAPOL has taken delivery of a second Engineering Prototype (EP) sample of its forthcoming 'OO' gauge Wainwright 'D' 4-4-0 for evaluation by the development team.

Produced in partnership with Rails of Sheffield and Locomotion Models, six versions are planned for Rails of Sheffield, finished as 488 in South Eastern & Chatham Railway (SECR) green (Cat No. 4S-027-001), 1730 in Southern Railway (SR) lined Maunsell olive green (4S-027-002), 31731 in British Railways 'sunshine' black (4S-027-003), 31574 in BR lined black with early crests (4S-027-004), 726 in SECR grey (4S-027-005) and 1734 in SR 'sunshine' black (4S-027-006). A seventh model as preserved 737 in semi-gloss SECR green is also planned, exclusive to Locomotion Models.

Each will feature a locomotive mounted mechanism, die-cast boiler, metal buffers, separately fitted handrails, firebox flicker, Next-18 Digital Command Control (DCC) decoder socket, solderless speaker connection and a new pin-less electrical connection between locomotive and tender.

Prices have yet to be confirmed, but pre-order deposits are being taken. Delivery is anticipated later this year.

● **Visit *www.railsofsheffield.com* for more information.**

A Class samples for IRM

Irish Railway Models (IRM) has received decorated samples of its forthcoming 'OO' gauge Metrovick A Class diesel locomotive for assessment.

Built by Metropolitan Vickers at its Manchester works, 60 locomotives were delivered to CIE from 1955 and were powered by the same Crossley two-stroke engines installed in BR's Class 28 Co-Bo locomotives. Reliability issues ensued which resulted in a major rebuild in the late 1960s, extending the A Class locomotives' working careers for another quarter of a century and more.

IRM's newly tooled model incorporates detail differences reflecting the class' career, in original and rebuilt conditions, and will cover a range of colour schemes including original silver, green, black, black and tan, plus a variety of orange and black liveries. The impressive specification also calls for a heavy die-cast chassis, five-pole motor, twin flywheels, directional lighting, engine bay illumination, rotating axle box hubs, sprung metal buffers and much more.

Prices are set at €189.95 for main range models, while a limited-edition presentation boxed example as class leader A1 in silver is priced at €219.95, limited to just 250 pieces.

● **Visit *www.irishrailwaymodels.com* for more information.**

Heljan revises 'O' gauge split-headcode Class 37/0

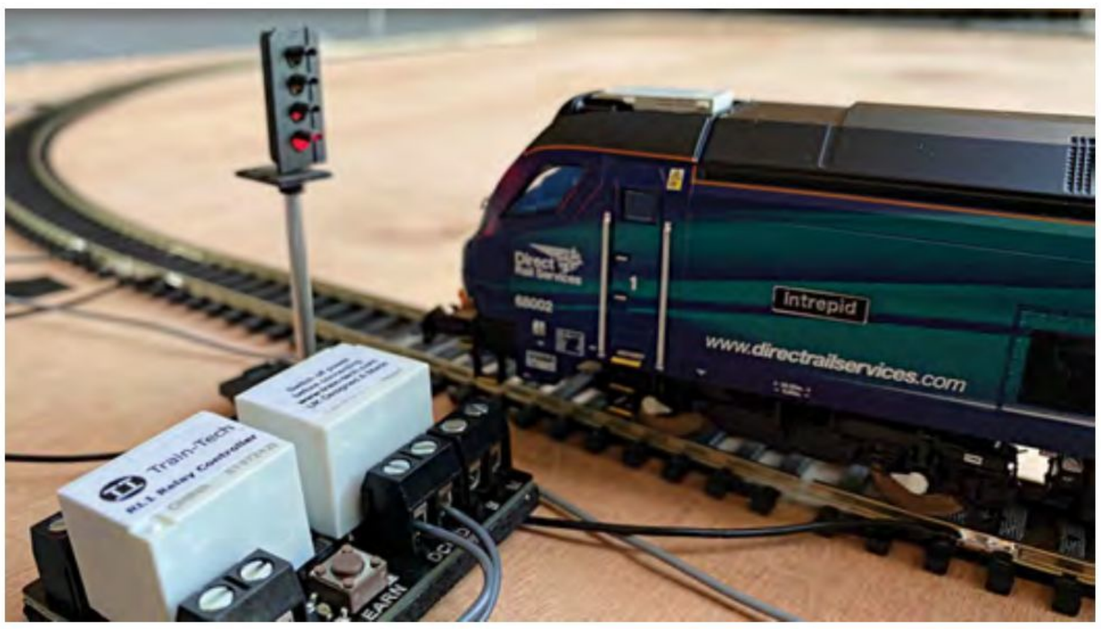
A new selection of Heljan's popular 'O' gauge split-headcode Class 37/0s is on the way, with five new liveries set to be released, two of which have not been offered previously.

Heljan has also taken the opportunity to upgrade these models with LED lighting, DCC-friendly chassis and improved underframe tanks. Currently at the decorated sample stage, four of the five planned 'O' gauge examples will be supplied unnumbered in BR plain green (Cat No. 3702), BR green with small yellow panels (3700), BR green with full yellow ends (3704) and BR blue (3701), while a fully decorated and weathered example will also be available as Tinsley depot's 37116 *Comet* in BR large logo blue (3703).

Priced at £599 each, they will be available in limited numbers later this summer.

● **Visit *www.facebook.com/heljanas* for more information.**

New Train-Tech Relay Controller



Train-Tech has added a new twin-channel Relay Controller (Cat No. RL1) to its range of electronic model railway accessories, suitable for analogue or digital use.

Ideal for controlling motors, solenoids and lamps, the RL1 features two heavy-duty relays, single pole changeover contacts and it can switch up to three amps at 24 volts AC or DC. It will also work with Train Tech's range of Track Sensors, Mimic Switches and Sensor Signals and can also be operated from a standard accessory address on a Digital Command Control (DCC) system.

For modellers looking to add a form of automation to a layout, the Relay Controller can also be used with Sensor Signals to develop prototypical automatic block signalling sections for multiple train operation, ensuring no more than one train enters a section occupied by another. For digital users, Train-Tech has also added Automatic Brake Control (ABC) diode modules (ABC1) which link between the RL1 and track section, so locomotives fitted with decoders that support ABC will benefit from smoother acceleration and deceleration.

Prices are set at £40 for the Relay Controller and £20 for a twin-pack of ABC diode modules.

● **Visit *www.train-tech.com* for more details.**

Lionheart shows
LATEST MK 1 SAMPLES FOR 'O'

Lionheart Trains has received a new batch of decorated samples for its new range of 'O' gauge BR Mk 1 carriages. On release the new vehicles will be available in BR carmine and cream, Western Region chocolate and cream, BR Southern Region green, BR maroon and BR blue and grey colour schemes.

The new range of Mk 1 carriages will cover the Brake Second Corridor (BSK), Second Open (SO), Second Corridor (SK) and Composite Corridor (CK). Choices will include numbered and unnumbered versions as well as DCC fitted models with factory fitted lighting.

The specification calls for turned metal wheels, sprung buffers, buckeye couplings, suitable for use on second radius curves, switchable interior lighting for DCC versions, interior detail and a removable roof for access.

Prices are set at £199 for standard versions and £234 for DCC fitted models.

● **Visit *www.lionhearttrains.com* for more information.**

KEY MODEL WORLD

Visit *keymodelworld.com* this month and get the latest news from *Hornby Magazine* as it happens as well as exclusive online features and videos from the team. Due for release by July 2 2020 are the following feature videos:

BACHMANN CLASS 37 SOUND

In an exclusive online video Mike Wild explains how he installs sound in Bachmann Class 37s on camera.

HORNBY SCOTRAIL MK 3s

See the latest version of Hornby's new sliding door Mk 3s up close in print and on video exclusively online.

BACHMANN CLASS 117 SOUND

We show how simple it is to add a PluX22 decoder to Bachmann's new Class 117 DMU for 'OO' gauge.

SUTTON'S 24 SOUND DEMO

Join us as we guide you through the sound features on the Suttons Locomotive Works upgraded Class 24s for 'OO'.

HORNBY MAGAZINE LAYOUT UPDATE 7

Going live on Friday July 3 is our latest feature update video from the *Hornby Magazine* team.

Accurascale CLASS 92 MATERIALISES

ACCURASCALE has received the first engineering prototype of its new 'OO' gauge Brush Class 92 Co-Co electric for evaluation.

Highlighting the attention to detail and technical advances, Accurascale's development team have been inspecting the overall accuracy of the model, while engineers from ESU are assessing the working pantographs and electronics.

Accurascale's 'OO' gauge Class 92 will feature a heavy die-cast metal chassis, five-pole motor, twin flywheels, all-wheel drive and pick-up, 21-pin Digital Command Control (DCC) decoder socket, dual-motorised working pantographs, directional lighting, day and night-time modes and much more. The impressive specification also incorporates an abundance of separately applied

roof detailing, conduit, etched grilles, separately applied grab handles, steps, etched windscreen wipers, sprung metal buffers, fully detailed bufferbeam and more.

Several areas of improvement have been identified to bogie detail and the cabside windows, which will be rectified before proceeding to the next stage. Extensive testing of the model's pantograph and performance is currently underway.

Eleven standard models are set to appear in a range of colour schemes carried by the prototypes since introduction in the mid-1990s including BR Railfreight grey, Railfreight Distribution, EWS branded grey, Europoorte grey, EWS maroon and gold, DB Schenker red, GB Railfreight orange and blue and Caledonian Sleeper liveries.

Prices are set at £160 DCC ready and £250 DCC sound-fitted, with delivery now expected during early 2021.

● **Visit *www.accurascale.co.uk* for more details.**

Rails approves Gas Turbine artwork

Rails of Sheffield has approved livery artwork for its new 'OO' gauge 18000 BR gas turbine locomotive.

Built by Brown, Boveri and Cie in Switzerland in the late 1940s, three 4mm scale models of this unique gas turbine-electric locomotive are planned in BR gloss black with silver trim (Cat No. 1800), BR green with early crests (1801) and

BR green with late crests (1802).

Rails' exclusive 'OO' gauge model is being developed and manufactured by Heljan with an impressive specification which includes spoked wheels, heavy die-cast metal chassis, centrally-mounted five-pole motor, flywheels, 21-pin Digital Command Control (DCC) decoder socket, etched grilles, sprung buffers, directional LED lighting and more. Optional Western Region style train reporting number frame and numerals will also be included within the package for customer fitment.

Priced £199.99 each, pre-orders are now being taken, with delivery anticipated in late 2020.

● **Visit *www.railsofsheffield.com***

MINERVA RECEIVES CLASS 14 SAMPLE

Minerva Model Railways has received the first engineering prototype of its new 'O' gauge ready-to-run model of the Western Region Class 14 0-6-0 diesel-hydraulic for inspection.

Built at Swindon Works between 1964 and 1965, 56 Class 14s were completed. They were designed for light trip freights and had dual controls for shunting. Their careers with BR were short as the work they were built for soon transferred to road. Withdrawals started in 1968 and all had been sold for scrap or industrial use by 1970. In total 19 have been preserved.

Minerva's Class 14 sample

weighs 1.15kg and features a PluX22 DCC decoder, directional lighting and fully detailed cab interior, while push-fit headcode lenses will be supplied loose with the model to enable headcodes to be changed. A few minor revisions to the tooling will be required before the model progresses to the next stage.

All models will be supplied in BR two-tone green together with a sheet of Railtec decals to allow numbers for all members of the class to be represented.

Currently running around three months behind schedule due to the impact of COVID-19, delivery is now anticipated this autumn with prices set at £290 for DCC ready, £345 for DCC fitted and £415 for DCC sound fitted versions.

● **For more information visit *www.minervamodelrailways.co.uk***

HARDER & STEENBECK

PAINT EASY THE HARDER WAY

www.harder-airbrush.eu

Neely

Scunthorpe Modern Image Group acquired this 'N' gauge electrified East Anglian layout from Terry Metcalfe – and fettled it up into a superb exhibition layout, as **RICHARD BOOTHBY** *explains.*

PHOTOGRAPHY, MIKE WILD

REGION	SCALE	GAUGE	SIZE	PERIOD	CONTROL
EASTERN	2mm: 1ft	'N', 9mm	14ft 3in x 4ft 8in	2000s	DCC, MERG

1 Right: **The many liveries applied to the GBRf Class 66 fleet are represented on Neely including 66783 *The Flying Dustman* in Biffa orange, 66789 *British Rail 1948-1997* in BR 'large logo' blue and last built Class 66779 *Evening Star* in GBRf lettered BR lined green.**

2 Below: **A Freightliner Class 66 leads a rake of loaded Dapol HIA hoppers out of the loop onto the 'Felixstowe' branch. The trackplan is based on Ely in Cambridgeshire.**

SCUNTHORPE Modern Image Group had the chance to purchase an 'N' gauge layout called Neely – based on Ely - in mid-2019 from its original builder Terry Metcalfe. The layout was well built and had all of the requirements for the group including options for further details and a chance to own its own exhibition standard layout with scale length trains. However, this was a big step as most of the group run analogue control only and Neely had been wired for Digital Command Control by its builder from the outset. Nonetheless, a decision was made, a deal was agreed, and it was collected and brought back to our club rooms during summer 2019.

Neely is 14ft 3in x 4ft 8in in a continuous run and is DCC operated using the CBUS/ MERG controllers and system which came with the layout. There are nine baseboards, none larger than 4ft x 1½ft. These were made by Model Railway Solutions to Terry Metcalfe's specification. The boards are arranged so that it provides a central operating area or you can operate from the southern end of the layout – there is still much discussion as to which is the best way.

NEARLY ELY

The layout's name is derived from its trackplan which is based on that at Ely in Cambridgeshire. The busy junction station provides plenty of movements including wrong line working, terminating trains and through workings. Its location also sees a wide range of freight and passenger traffic with prominent flows including Freightliner workings to and from Felixstowe docks, aggregate trains and engineering movements.

The trackplan for the scenic section has been laid with Peco code 55 concrete sleeper track combined with wooden sleeper large radius and curved points to »

3 An EWS Class 66 eases its rake of Network Rail Autoballasters across the crossing into platform one while a Class 142 waits for its route to clear in the distance.

make the most of readily available track components. The storage yard at the rear has been laid with Peco code 80 track. The storage yard was comprehensively designed to allow real train operations from Ely to be replicated with specific sidings and point work set to allow destinations including London King's Cross, King's Lynn, Norwich, Peterborough, Stansted, Ipswich on the passenger side as well as freight workings to Felixstowe, Peterborough and Middleton Towers for sand trains. All of this means the storage yard design is a little unusual as there are a large number of short turnback sidings to accommodate the modern multiple units which operate through Ely. Through roads are fewer with only the freight handling section offering full length lines to hold trains off scene.

Throughout the build Terry sought to replicate the signature features of Ely station and surroundings. This includes the restricted height bridge and adjacent level crossing for high vehicles, scratchbuilt station buildings, a full complement of bi-directional colour light signals with junction indicators.

The overhead catenary on the layout features a combination of Dapol and scratchbuilt items. Terry, correctly in our view, designed against adding the wires which makes operation and maintenance of the layout much simpler. In addition the Dapol masts are removable which saves any potential damage during transit to exhibitions.

IN NEW HANDS

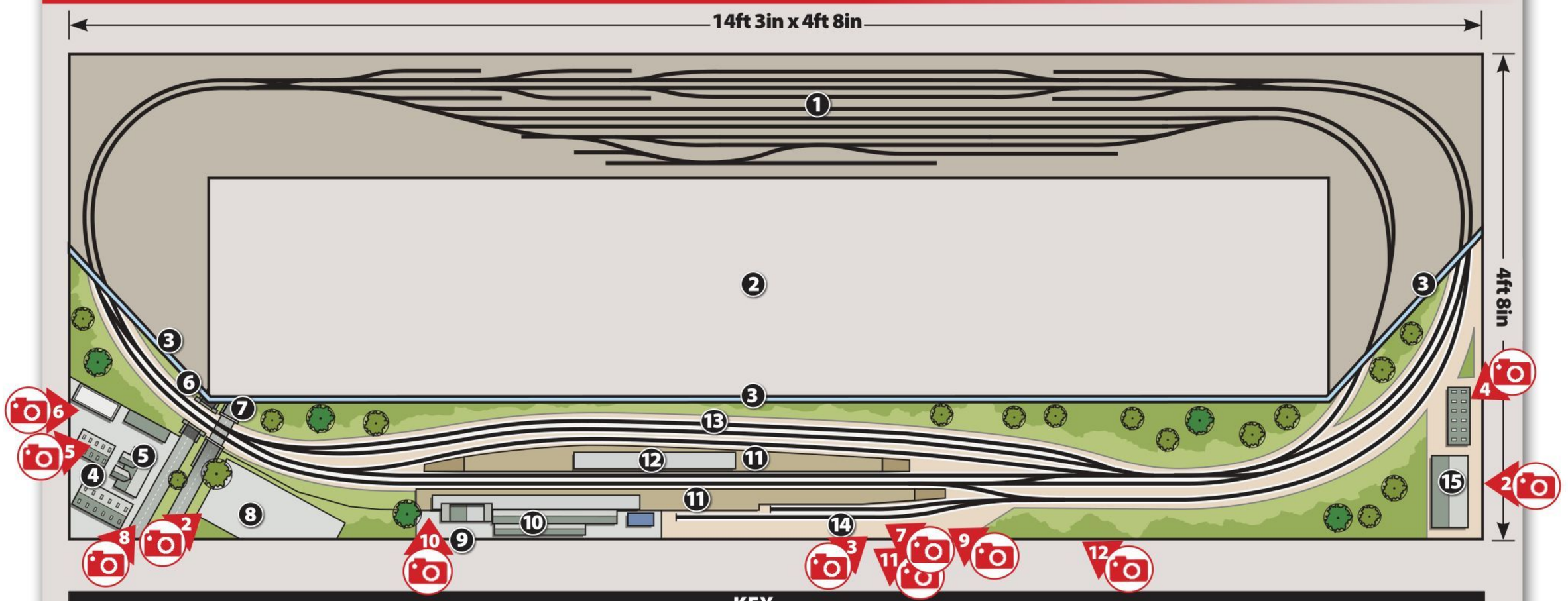
When we took over Neely it was a complete and working layout, but it needed a new set of legs. We have built plywood legs to fit under the boards so it is freestanding but simple to dismantle as they simply slide in and out. The layout can be set up in approximately 45 minutes. The boards »

4 **The striking colour of Colas Rail Freight's Class 56 56105 stands out as it heads a string of Seacow ballast hoppers away from Neely.**

5 Below: **An East Midlands Trains HST powers away from Neely while a Class 66 waits for a path in the sidings at the rear. The restricted height bridge and adjacent level crossing are prominent features of the real location.**

6 **Viewed across the factory yard, a GBRf Class 66 leads a 3D printed High Output Ballast Cleaner through the station.**

NEELY TRACK DIAGRAM (Not to scale)



KEY				
1 Storage yard	4 Warehouse	7 Level crossing	10 Station building	13 Goods loops
2 Operating well	5 House	8 Car park	11 Platform	14 Network Rail sidings
3 Backscene	6 Road under bridge	9 Station forecourt	12 Canopy	15 Industrial units

are joined by 15-way 'D' connectors which carry the three power buses and control bus between the boards. All of these are identified by letters so it is known which boards these join.

The MERG CBUS accessory control system is used on the layout using various modules under the baseboards to switch a mass of solenoids, signals and the Tortoise point motors. The points and signals can be operated using the control panel (which also has the handheld controllers plugged into it) or using the Panel Pro on the computer – the latter is taking a little getting used to as it has been a big step away from what we have all experienced with our own layouts. The signals come from the excellent CR signals range and look impressive when viewing the layout, especially when the feathers are illuminated for trains using crossings.

We have been very lucky and in terms of electrics and track have had to do no work at all on it. The layout ran beautifully on its first setup, which is testament to Terry Metcalfe's high standards of work.

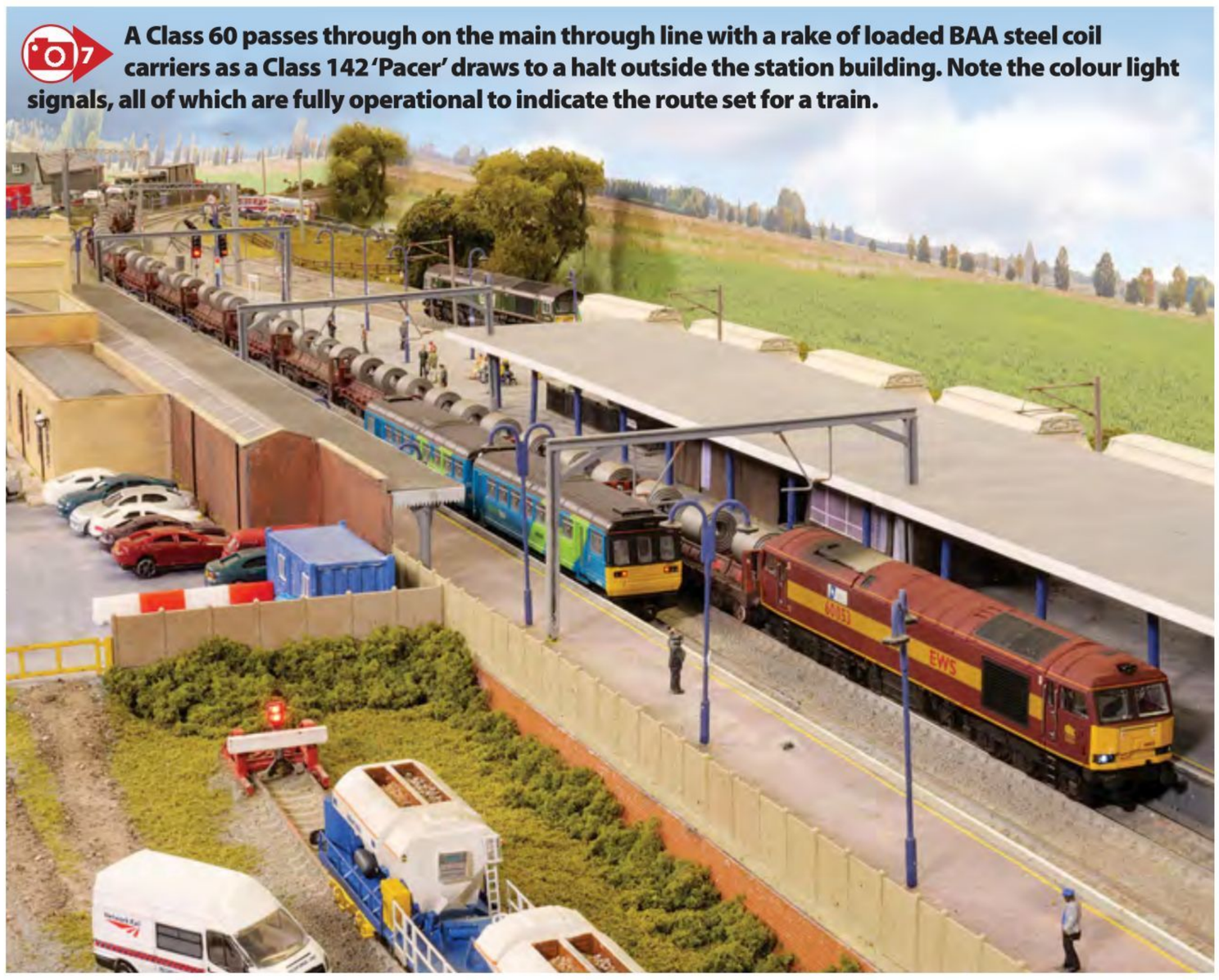
The track is raised on embankments formed of wire mesh with nylon fleece, covered in PVA glue. On arrival the scenery needed refreshing as it was a few years old and had become quite dull, so over several weeks a few members set to with dilute PVA and Woodland Scenics scatter and also static grass from War World Scenery. We started from one end of the layout and worked all along the front until it was completed. The permanent way sidings by the station were refreshed as well to make it look like a Network Rail yard with vans, buildings and general clutter that you see on the real railway.

As the layout is based on Ely, we have been keen not to make too many changes to the buildings around the area, but we have changed what the industries are. Whereas there was a tractor factory at the north of the station, this is now a bus depot or at times a lorry depot depending on how we feel. We have changed the car park slightly and changed the cars in it but on the whole we have left the layout as it was. We especially like the scene of the van stuck under the low bridge with the police and Network Rail in attendance ensuring the bridge is safe after a bridge strike.

ROLLING STOCK

We are lucky as a group to have two members who own exhibition layouts. We can call on approximately 100 locomotives, all DCC fitted and some with sound, and enough rolling stock to create a varied and realistic scene. However, our stock deviates from the Ely theme in some cases as we have a large collection of rolling stock modelling workings closer to home in North Lincolnshire.

You will see a variety of stock running through – mostly weathered and some in non-standard liveries. Locomotives include classes 37, 47, 56, 57, 60, 66 and 67 in a range of colour schemes while multiple units are drawn from classes 142, 150, 153, 156 and 220 currently. Beyond ready-to-run stock we also have a good stock of Network Rail machines including the High Output Ballast Cleaner, Railhead Treatment Trains, the Railvac and tampers plus block trains such as the former Rover car parts wagons »



7 A Class 60 passes through on the main through line with a rake of loaded BAA steel coil carriers as a Class 142 'Pacer' draws to a halt outside the station building. Note the colour light signals, all of which are fully operational to indicate the route set for a train.

converted to timber carriers and more. There are also plans to include multi-purpose vehicles in this fleet in the future.

We aim to run rakes of between nine to 11 wagons for freight traffic to give a feel of the real railway without overwhelming the layout. Most of the wagons are weathered and some have loads added. The passenger side is mainly handled by multiple units, though for variety we do have a full East Midlands Trains HST set which makes appearances too.

CLUB PROJECT

Taking ownership of Neely from Terry has been a great experience. It runs superbly and has so many electronic features which bring the real railway to life in 'N' gauge. We have thoroughly enjoyed refreshing the scenery and it is now providing a location on which we can run our extensive collection of modern image rolling stock on a regular basis.

The layout has already been booked for several exhibitions for 2020, however due to the COVID-19 pandemic these are mostly cancelled. We hope to be on show at Doncaster in February 2021.

We still have a lot to learn about the layout and many training sessions for operators are required, but we are slowly getting there. When lockdown rules are released appropriately, the group will resume meetings at Grange Farm Hobbies Centre, Scunthorpe, every Monday, Wednesday and Friday evening and new members are very welcome. HM

● Join the Scunthorpe Modern Image Group Visit *www.smirg.co.uk* for more information.

SUBSCRIBERS
VISIT WWW.KEYMODELWORLD.COM
TO SEE VIDEO OF THIS
LAYOUT IN ACTION

8 Above: **The Police and Network Rail attend to a van stuck under the low bridge at Neely as an EMT Class 43 HST set departs. All traffic will have to use the level crossing until the van has been recovered.**

9 Left: **Northern Rail units take charge at Neely as a Class 142 departs under the bi-directional signalling and a Class 156 awaits a clear path.**

10 Above right: **Class 67027 *Rising Star* has just arrived at Neely with a charter as Class 66 66779 *Evening Star* enters the loops at the back of the station with a rake of JHA stone hoppers.**

11 Right: **The sidings in front of the station have been detailed to represent a Network Rail compound.**

12 Below: **A wide variety of stock is available to Neely including this DRS formation consisting of a pair of Class 37s, two Mk 2a barrier coaches and KUA nuclear fuel carrier.**

Enjoy HORNBY magazine wherever you are in the world

The Hornby Magazine team is at the heart of the vibrant model railway hobby, delivering quality content to cover the latest news and model releases as well as inspirational, historical and practical features. The editorial team are all passionate modellers, ready to pass on their skills and knowledge to help you make your miniature world even better, no matter which scale, gauge, era or region you model. With our newly introduced digital bundle subscriptions you continue to get your magazine delivered with the added benefit of instant access to a digital copy to read anytime, anywhere.

Mike Wild, Editor

Why not go digital?

Enjoy the latest issue ON THE DAY IT'S PUBLISHED wherever you are in the world!

- **No need to wait for delivery**
- **Instant access**
- **Never miss an issue**

CALL US NOW: +44(0) 1780 480404

Lines open Monday to Friday 9.00am until 5.30pm **GMT**

Your customer code is: HM020820

Offer closes 31 August 2020

DIGITAL SUBSCRIPTION BUNDLES

SAVE UP TO 45%

NEW

Enjoy the latest news and features anytime, anywhere!

PLUS FREE GIFT ***With selected packages** (see website for full details)

KEY MODEL WORLD

The **NEW** online home of railway modelling.
Hornby Magazine subscribers get **FREE** access.

Visit: www.keymodelworld.com/subscribe

295/20

	Print	Digital	Print + Digital
Printed magazine	✓	✗	✓
Digital edition	✗	✓	✓
No delivery charges	✓	✓	✓
Exclusive subscriber discounts	✓	✓	✓
	from **£39.99***	**£34.99**	from **£55.99***
	Save up to 30%	**Instant access**	**Save up to 45%**

BEST VALUE

Already a subscriber? Talk to us about how we can help you with digital bundle upgrades

DIRECT Debit · MasterCard · PayPal · VISA

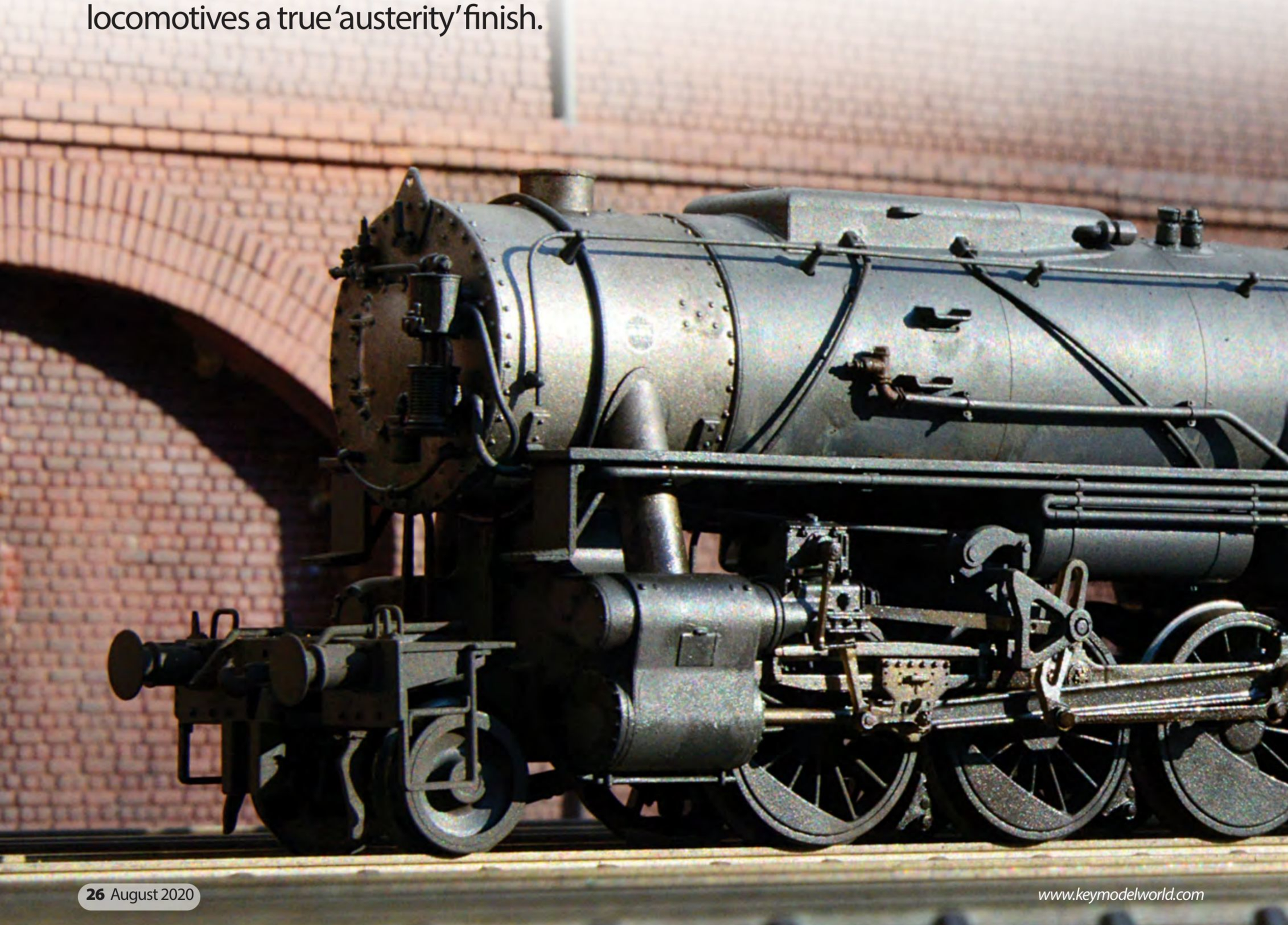
VISIT: shop.keypublishing.com/hmsubs

USA customer? VISIT www.imsnews.com/hornbymag **or CALL** toll-free 757-428-8180

Print, digital and bundle subscriptions: Quoted subscription rates are for UK subscriptions paying by Direct Debit. Quoted savings are based on UK Direct Debit rates versus purchase of individual print and digital products. Subscription gifts where offered subject to availability and subscription term. If advertised gift is not available, an alternative gift of equal value will be offered. Standard 1-year print subscription prices: UK - £51.99, EU - £61.99, USA - £57.50, ROW - £64.99.

Washes & filters

The 'S160' class only spent a couple of years in wartime Britain, but they've since acquired a huge enthusiast following. **TIM SHACKLETON** adopts some military-modeller weathering techniques to show how he gave one of these iconic locomotives a true 'austerity' finish.



A combination of airbrush base colours has been overlaid with brush applied washes and filters which makes the 'S160' come to life. It has gained a crushed coal load and just needs its crew to complete oiling round before it moves off for its next duty.

AIRBRUSHES are great as a weathering tool and I've been happily working with them for the best part of 40 years. For the last decade and more I've used the Iwata range almost exclusively and, in that time, I've taught many students the basics of airbrushing. There's a lot you can do with an airbrush but one of its major limitations is that the finish can and sometimes does look a little too smooth and even – at least for my taste. If you look at a real piece of railway equipment – whether it's a wooden-bodied mineral wagon, a 'WD' 2-8-0, a Pullman carriage or a Class 66 diesel – you'll see that much of the weathering is actually quite random and built up in discreet layers, reflecting its interaction over time with sun, wind, rain, exhaust fumes, soot from tunnels and much else besides.

Put another way, I've never seen anything at 12in:1ft scale that looked like it has been weathered with an Iwata. That's why I find airbrush weathering works best in conjunction with hand-finishing techniques – certainly, if you want to create subtlety and variety in the way you suggest the natural processes of ageing and material wear and tear.

Paint washes have been around for many years, and these days we have a whole host of ready-to-apply weathering products by specialist manufacturers such as AK-Interactive and MiG AMMO that include many different variations on the same theme – the application of thin, translucent paint finishes that alter the appearance of whatever's underneath.

As well as offering incredible tonal range, washes work brilliantly to pick out detail and add depth to areas that normally remain in shadow. Anyone can learn to work ultra-thin pigment into something approaching a watercolour. As part of my normal weathering processes, I've shown you before how I use enamel washes and even how to use acrylic media in the same way, by decelerating their drying times. Here we'll have a refresher course using, for our subject, a locomotive that on online wish lists seems to be one of the most lusted-after designs not yet covered by the ready-to-run manufacturers for 'OO' gauge. The example here is the Roco 'HO' scale model, a fine version of the imposing USATC 'S160' 2-8-0 it is. Hm

The Roco 'HO' scale 'S160' 2-8-0 is a stunning model with all the rugged character of the real engines. One day hopefully we will see these wartime machines available in 'OO' for the British market.

WEATHERING WITH WASHES AND FILTERS

1 Typical of modern 'H0' scale products for the European market, the Roco 'S160' offers incredible levels of detail. Operating on the same principle as a modern diesel chassis, its powered tender gives superbly smooth running. The real 2255 was from a batch of 90 built by Baldwin in 1943.

2

Flashback – in past issues we looked at how to slow down the drying times of thinned acrylic paint so it can be used as a wash. In hindsight, I think it's a lot easier to use enamel-based media and that's what I'm going to use here.

3

The routine, paradoxically, starts with a little airbrush weathering using acrylics – a light and marginally uneven dusting with a browny-grey mix of 60% matt black and 40% mid-brown. This provides a key for the subsequent washes and starts to knock back the pristine factory finish. In this instance I used Tamiya acrylics for their fast-drying properties.

4

Always spray from close in, otherwise you'll get a spattered effect that may not be what you want. The Iwata Eclipse CS is the best all-round airbrush I know.

5

I've upped the percentage of brown in the mix and used this for the locomotive underframe to represent the brake dust and road dirt that always accumulates in this area.

6

Here you see one of the classic 'don'ts' of airbrush weathering – the paint shadow on the wheel spokes caused by the coupling rods getting in the way of the paint flow. The remedy is simple – just rotate the wheels a quarter-turn and spray more paint.

7

Already the 'S160' is starting to look heavy and purposeful but the airbrush-only weathering is a little too even for my taste. To bring the locomotive to life and individualise it we need to switch to hand-finishing.

8

I start with a controlled slosh of warm grey with a greenish tinge – well-thinned MiG AMMO Tan Grey panel line wash (1610) to be precise. I then go over the washed areas with a brushload of white spirit, working the paint into vertical streaks. Do the whole of the upper works in this way but not the wheels and motion.

WHAT WE USED

PRODUCT	SUPPLIER	CAT NO.
Flat Black	*www.tamiya.com*	XF-1
Red Brown	*www.tamiya.com*	XF-64
Engine Grime	*www.migjimenez.com*	1407
Fresh Engine Oil	*www.migjimenez.com*	1408
Tan Grey panel line wash	*www.migjimenez.com*	1610
Track Wash	*www.ak-interactive.com*	083
Matt Black	*www.revell.com*	8

Intermediate
Beginner SKILL LEVEL Advanced

Having let the first application dry for 24 hours, I've made a new, darker mix out of MiG AMMO Engine Grime (1407) and AK-Interactive Track Wash (083) – I find these two brands are readily interchangeable and virtually indistinguishable. The wash is then well thinned and lightly brushed by hand on to areas where dirt would accumulate, such as around the boiler fittings.

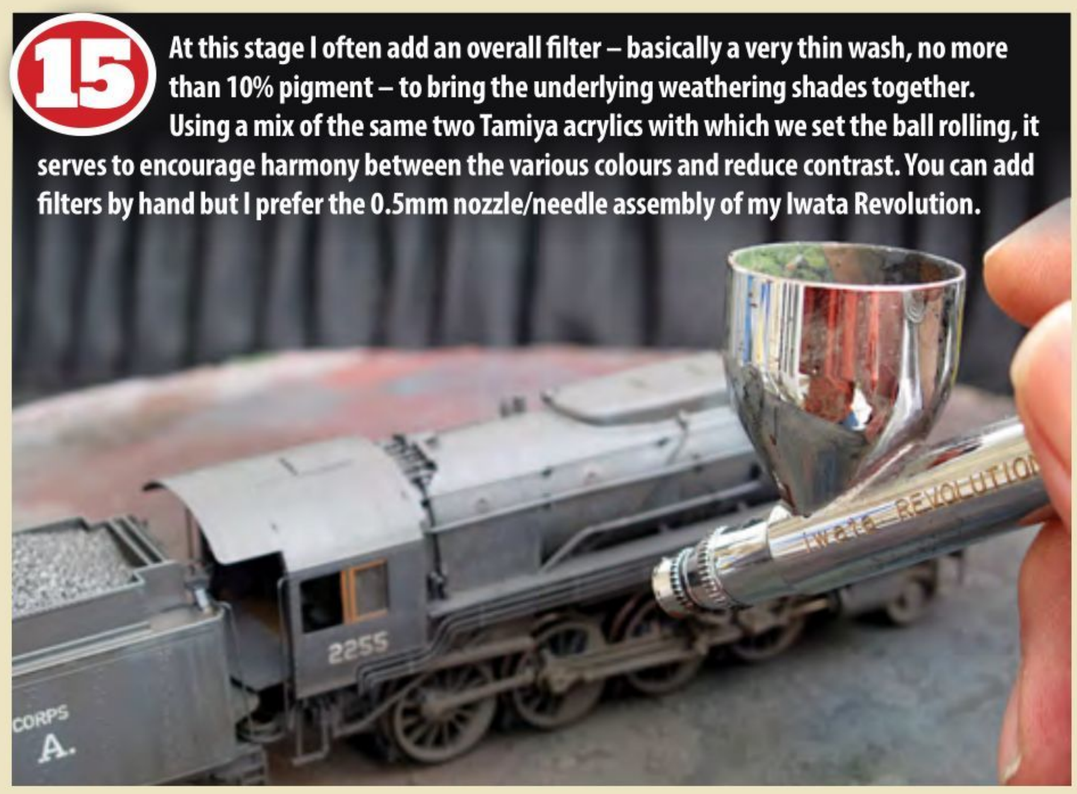
Using my broad brush moistened with thinners, I then dissolve the second wash so it flows semi-seamlessly over the first, offering tonal variety and the impression of dirt building up in layers. This is the glory of enamels – they dry slowly so you have plenty of time to work up subtle weathering effects.

I've added some Matt Black enamel (Revell 8) to the mix and flooded it on to the smokebox area so it collects around the raised detail. All the makes of enamel paint that I use are compatible with one another and can be thinned with white spirit.

I like to paint wet, flooding the area with thinners (white spirit in this case) before adding the pigment in the form of a wash. I felt the back of the tender could look a little more 'used'.

If you use the paint thin enough you can, to a large degree, let it settle where it wants to, which creates a pleasingly natural effect. If the wash starts to pool, though, it may be an idea to disperse it otherwise you might end up with the equivalent of a paint run or sag. Simply add a little more thinners and brush the surplus away.

Time to take stock, make a cup of tea and take a long hard look at the work in progress. A bit of detail weathering is clearly needed – paint would have burned off hot areas such as the firebox but corrosion would not have had time to take a hold – and one or two rough edges need smoothing off.

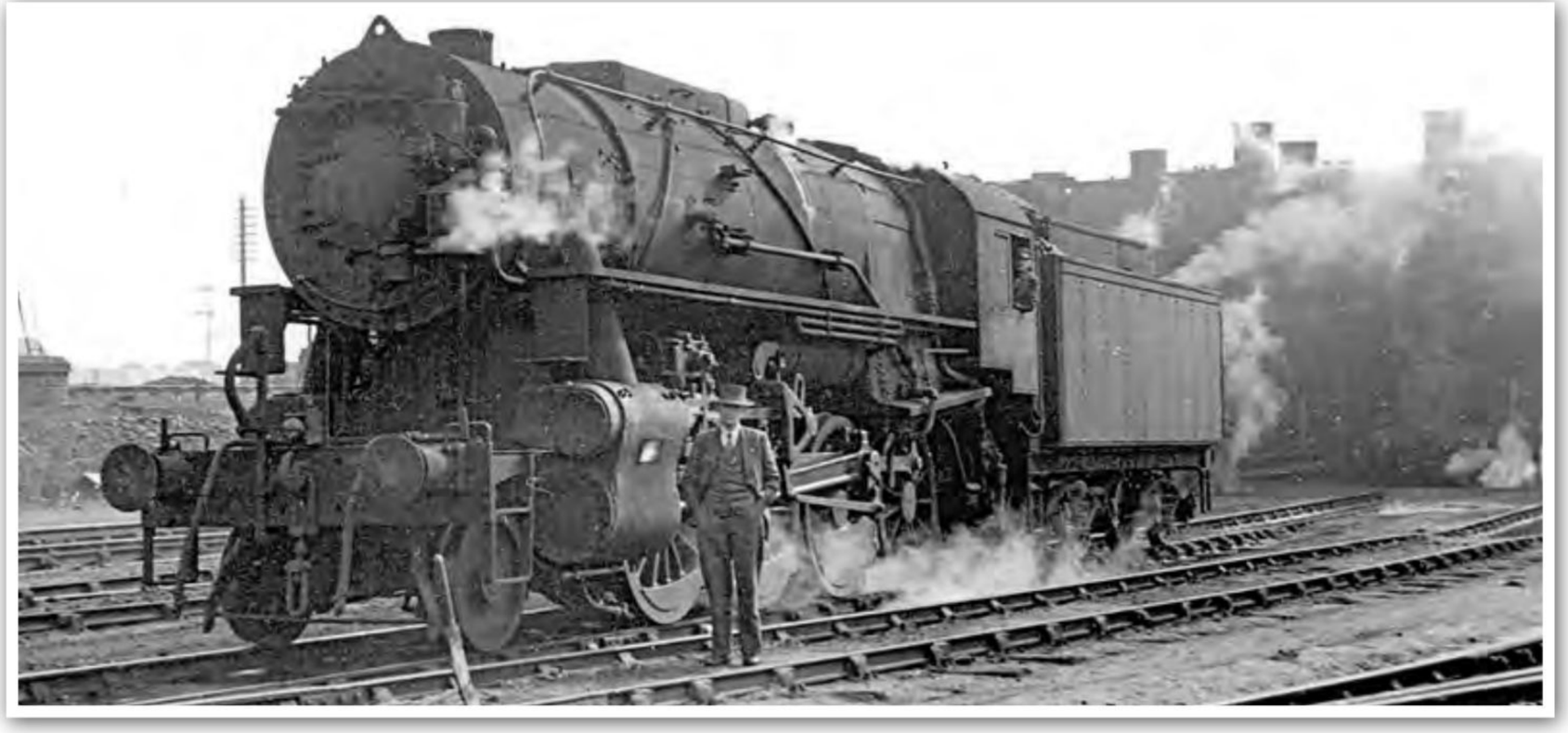


At this stage I often add an overall filter – basically a very thin wash, no more than 10% pigment – to bring the underlying weathering shades together. Using a mix of the same two Tamiya acrylics with which we set the ball rolling, it serves to encourage harmony between the various colours and reduce contrast. You can add filters by hand but I prefer the 0.5mm nozzle/needle assembly of my Iwata Revolution.

The action of centrifugal force while a locomotive is in motion causes lubricating oil from the valve gear, coupling rods and cylinders to be thrown all over the wheels. Here I've used one of the many 'oily' preparations I keep in stock, but this time used as a thin wash applied by airbrush. I love the smell of MiG AMMO Fresh Engine Oil (1408).

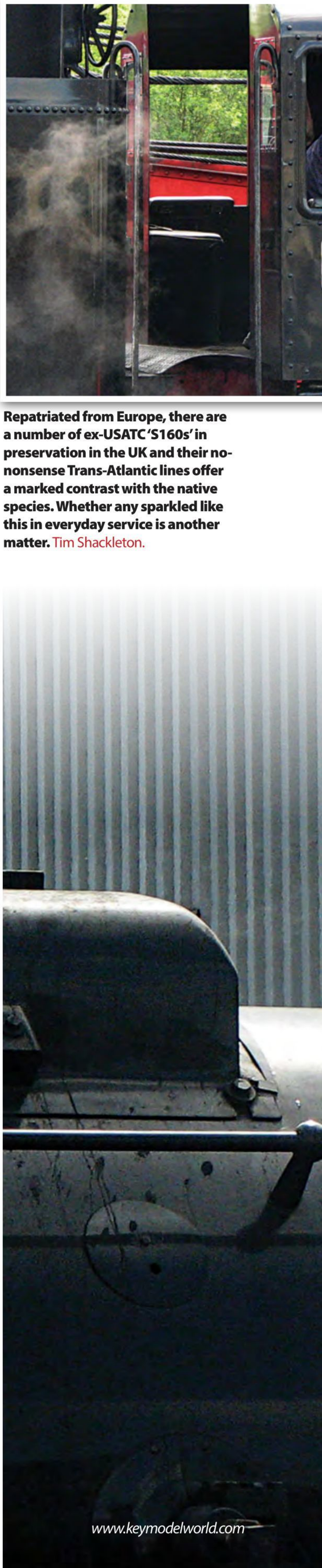
S160 FACTFILE

The 'S160' class was designed by a team from the US Army's Corps of Engineers in order to provide the war-damaged railways of Europe with motive power that – like the British-built 'WD' 2-8-0s and 2-10-0s – was both quick and cheap to build. They were not designed for a long life and yet, ironically, in some countries many 'S160s' lasted until the final years of main line steam. A total of 2,120 were built between 1942-1945 of which 398 saw short-term service in Britain on loan to the 'Big Four' railways. Most were shipped to Europe in the immediate aftermath of D-Day, and although one would be retained by the Longmoor Military Railway, none saw main line service in the post-war years.



Above and below: **These wartime views of Mold Junction's Lima-built 'S160' 2153 give a good indication of the kind of condition I had in mind for my model. Remember these locomotives were pretty new at the time, despite their dishevelled appearance. None was built earlier than 1942 and they were numbered sequentially with the final locomotives, numbered in the 6000s, being delivered in 1945.** Jacy Collection.

Right: **Oil-burning 019.580 at Volos on September 15 1972 was one of 25 'S160s' that the Hellenic State Railways bought from its Italian counterpart, Ferrovia dello Stato, in 1959. Although it bears SEK black rather than USATC grey, its outward condition gives a good impression of the everyday appearance of the 'S160s' during their time in Britain.** Keith Chester.



Repatriated from Europe, there are a number of ex-USATC 'S160s' in preservation in the UK and their no-nonsense Trans-Atlantic lines offer a marked contrast with the native species. Whether any sparkled like this in everyday service is another matter. Tim Shackleton.

6046

6046
THE SUPERHEATER CO.

Streams AND brooks

Streams and brooks can make wonderful additions to model railways. **ANTHONY REEVES** explains how to make them as realistic as possible.

Streams are a useful addition to a model landscape. They add movement and can be a good excuse to add a small bridge either for trains or pedestrians.

Streams can be found crossing the landscape and are suited to all styles of scenery.

STREAMS, BROOKS and rivers are modelled in very much the same way. All are bodies of flowing water (rivers being generally much wider and longer) - but in construction terms for a layout, they are built in the same way.

Ideally the addition of a stream or river should be planned in advance so the necessary steps can be included in the layout's design which will allow you to incorporate small bridges if required. However, it is far from impossible to modify a layout to feature a waterway in the future. As with many features in our landscapes, streams look more realistic if they become part of the scenery as opposed to simply being added on top of the baseboard: that said if the water is added directly to the surface of the board with banks either side of it built up to create a shallow channel, this, with a little creative landscaping, can also work.

In an ideal world, start by creating a channel in the baseboard which will hold the stream. This can either be dead straight or take on a naturally winding form. With either style, the channel should be made wide enough to allow you to add banks which will gradually slope towards the centre of the stream and ultimately hold the water. The banks can be made using a variety of materials - modelling clay, card and papier mâché can all be used. You could also use a router to dig the channel out from the board, sloping the banks as you work.

Once the channel for the stream has been created, it can be painted with a suitable coloured paint to give a basic earth colour or coated with glue which is then covered with a sprinkling of fine earth coloured scatter. The paint/scatter can be taken over the edges of the stream to be used as a base for the further scenic materials which are used to create the banks. Some streams are full of rocks and pebbles, like the one being modelled here which look great in a more natural landscape. A little PVA helps hold the stones in place. Make sure the channel has no gaps in it which will ensure the water doesn't seep away when it is added.

The water itself can be created using a variety of materials such as two part resin, varnish, neat PVA glue or even thin sheets of transparent plastic which can be painted underneath to show the colour through to the top of the sheet. Two part resins tend to 'creep' up the sides of the bank but this can easily be disguised with a little glue carefully painted along the edge of the water and hidden with scenic scatter.

In this demonstration PVA glue is added over the rocks in thin layers to create the water for the stream. The glue can be stippled with a stiff paintbrush as it dries to create texture to the surface of the water. A little white emulsion paint could be added to the topcoat of glue which adds to the frothy effect of the water.

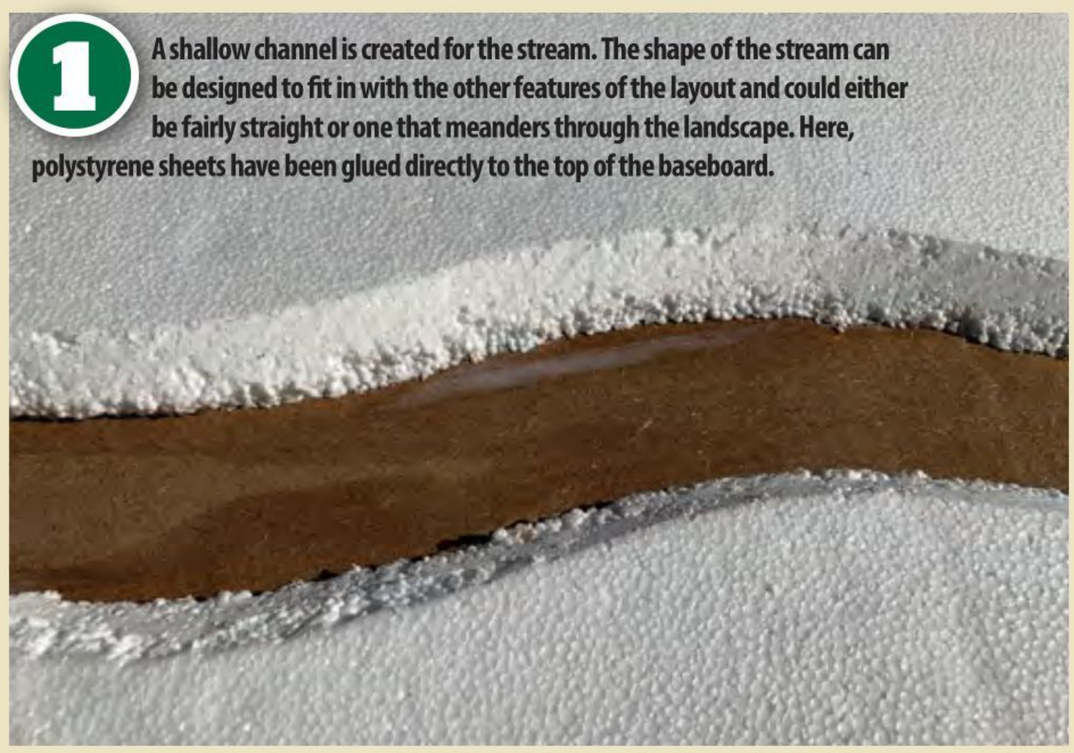
If you use a resin or glue water, let it dry before adding the reeds and grasses around the banks. This stops the water becoming covered with unwanted scatter debris. Branches, leaves, and dumped items can add to the overall look of the stream if they are in keeping with their surroundings.

The next step is to add foliage and weeds to the banks of the stream to blend it into the rest of the landscape. Large patches of PVA are randomly added to the banks and static grass is applied using an applicator. Small low growing shrubs and brambles are made using canopy material. The canopy is teased apart until the desired density is achieved, sprayed with hairspray then a blend of coloured scatters is sprinkled over it. A light spray of scenic glue or diluted PVA will help hold the scatter in place. The brambles are held in place on the banks with glue and they are worked into it with a wooden skewer. Grass tufts, reeds and weeds are also added to the banks which add to the rural setting of this particular stream.

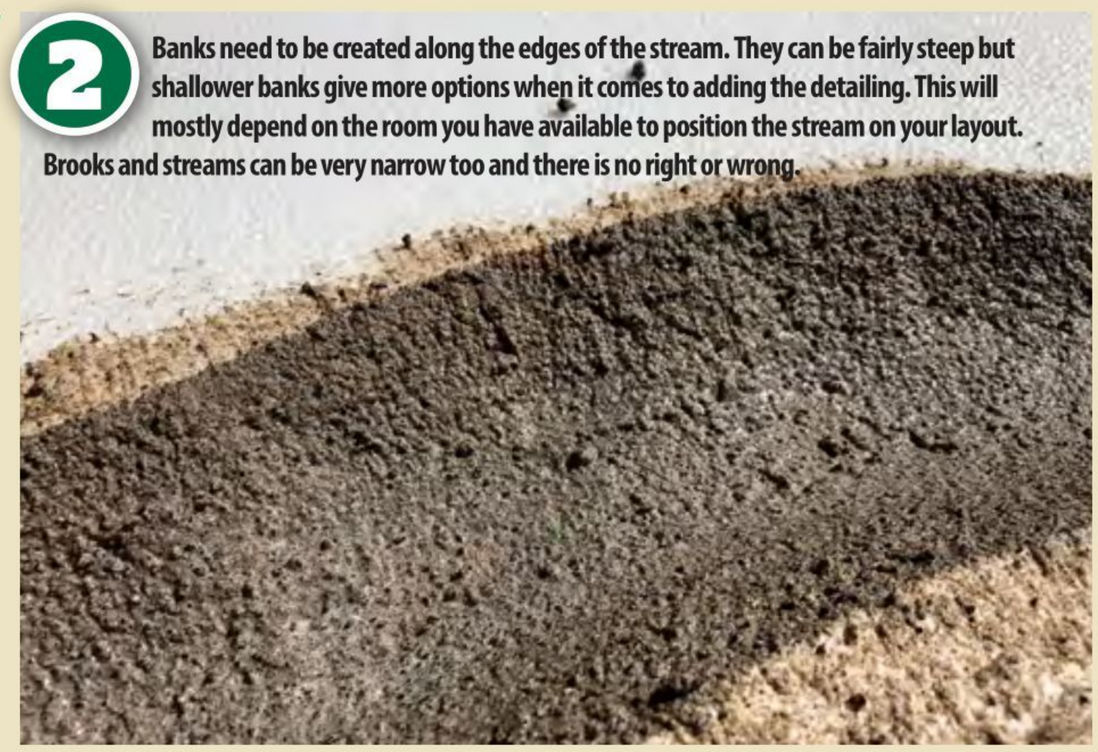
As with any body of water (streams, rivers, lakes) people and animals are drawn to them so the addition of cattle drinking from it or a fisherman fly fishing will add a focal point to the scene. The stream could be lined with trees, hedges, fences or a dry stone wall, as all these features can help to highlight it too. HMn »

STEP BY STEP

MAKING A STREAM



1 A shallow channel is created for the stream. The shape of the stream can be designed to fit in with the other features of the layout and could either be fairly straight or one that meanders through the landscape. Here, polystyrene sheets have been glued directly to the top of the baseboard.



2 Banks need to be created along the edges of the stream. They can be fairly steep but shallower banks give more options when it comes to adding the detailing. This will mostly depend on the room you have available to position the stream on your layout. Brooks and streams can be very narrow too and there is no right or wrong.

3 Extend the colour and texture of the banks of the stream beyond the channel as this can be a useful way of blending the stream into the rest of the landscape. It is best to allow this layer to dry before adding further layers.

4 Once the banks have been styled, they are either painted (matt emulsion or acrylic paints work well) or they can be covered in a suitable scenic scatter. This stream bed is covered with a thin layer of Earth Powder held in place with diluted PVA. If you use paint, paint the centre of the stream darker than the edges as this helps add to the look of deeper water - blend the different colours of paint so they merge together naturally. Fine spring green scatter is also added to the surrounding banks.

5 PVA is added to the bottom of the stream and limestone rocks are glued in place. The rocks are also scattered around the banks too. Not all streams have rocks in them though - some are full of weeds with little depth of water showing at all. Allow the glue to dry before adding your chosen water product.

6 For the water in this stream I'm using neat PVA glue as opposed to a resin. The glue is carefully poured into the bottom of the channel.

7 Using a small paintbrush, spread the glue so it is flat and resembles a natural looking layer of water. As the glue dries it will become clear. Build up the depth using several layers of PVA glue and allow each layer to dry in between applications. Stippling the drying glue with a stiff brush will add texture to the surface of the water.

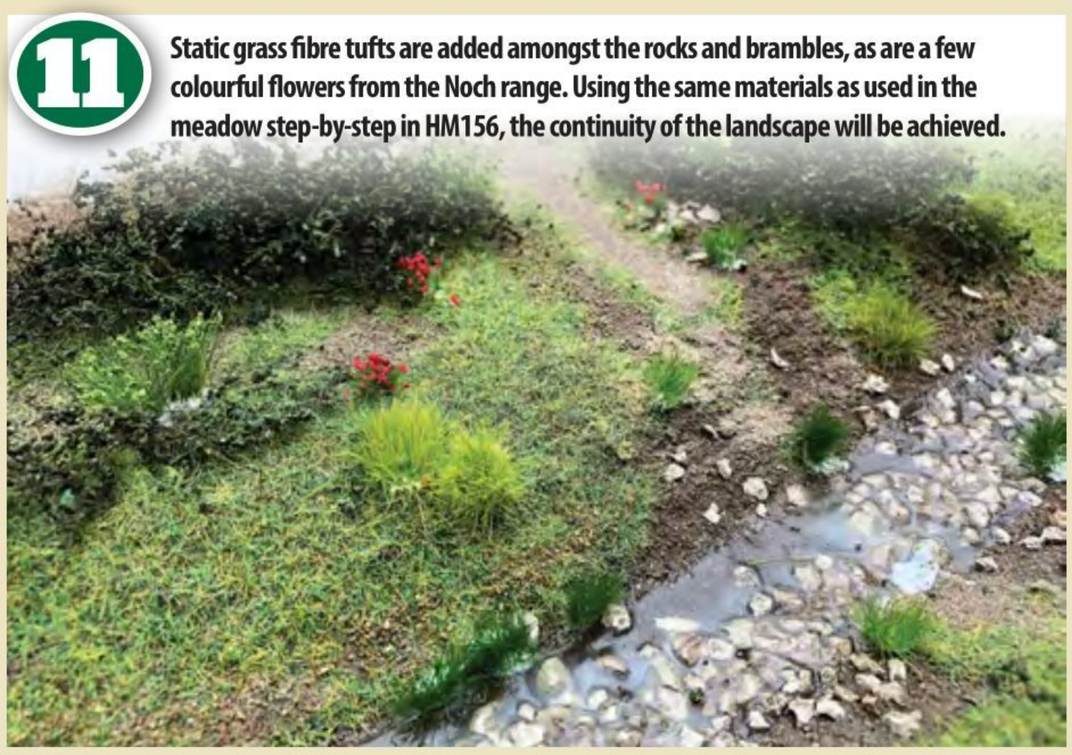
8 The ground surrounding the stream is given a patchy coat of PVA glue. This will be used to hold the static grass in place.

Intermediate
Beginner SKILL LEVEL Advanced

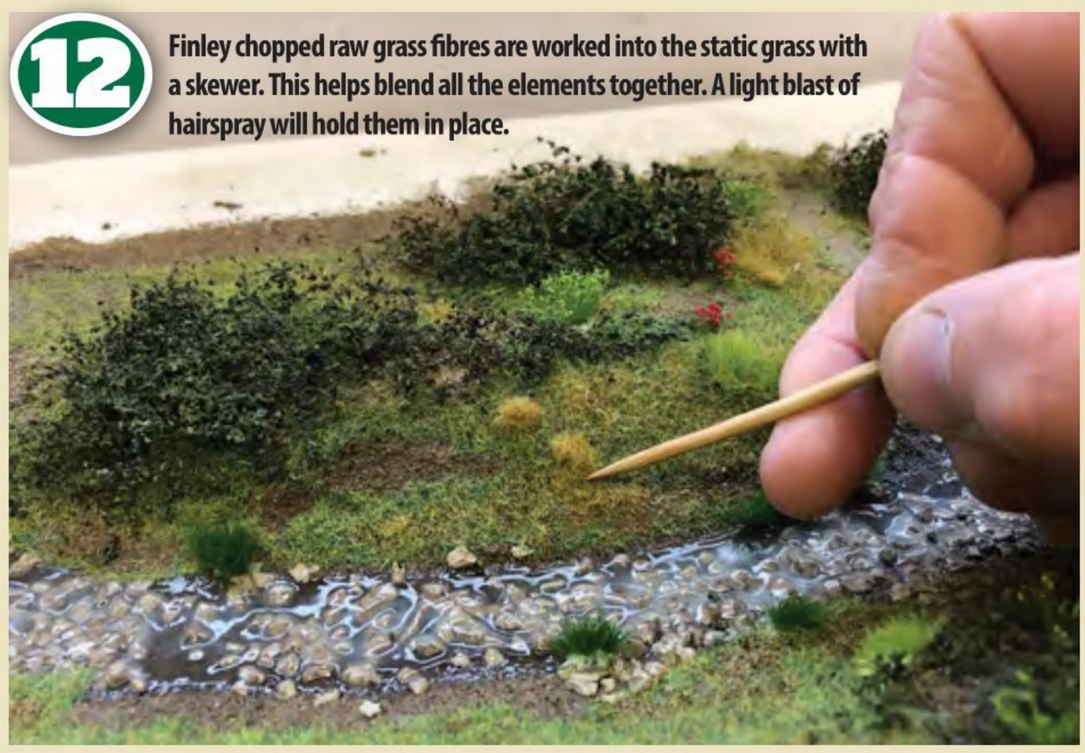
9 The static grass is applied in the usual manner using a static grass applicator. Here a blend of lengths and colours add to the realism of the grass – an important step in adding static grass.

10 Small low growing shrubs, such as these brambles, are made using canopy from the Treemendus range. The canopy is teased apart and sprayed with hairspray. Scatter is sprinkled over the canopy and the whole area is sprayed with diluted PVA. A little neat PVA is painted onto the bank at the point where you want your brambles and then the brambles are worked into the glue with a wooden skewer or cocktail stick.

11 Static grass fibre tufts are added amongst the rocks and brambles, as are a few colourful flowers from the Noch range. Using the same materials as used in the meadow step-by-step in HM156, the continuity of the landscape will be achieved.

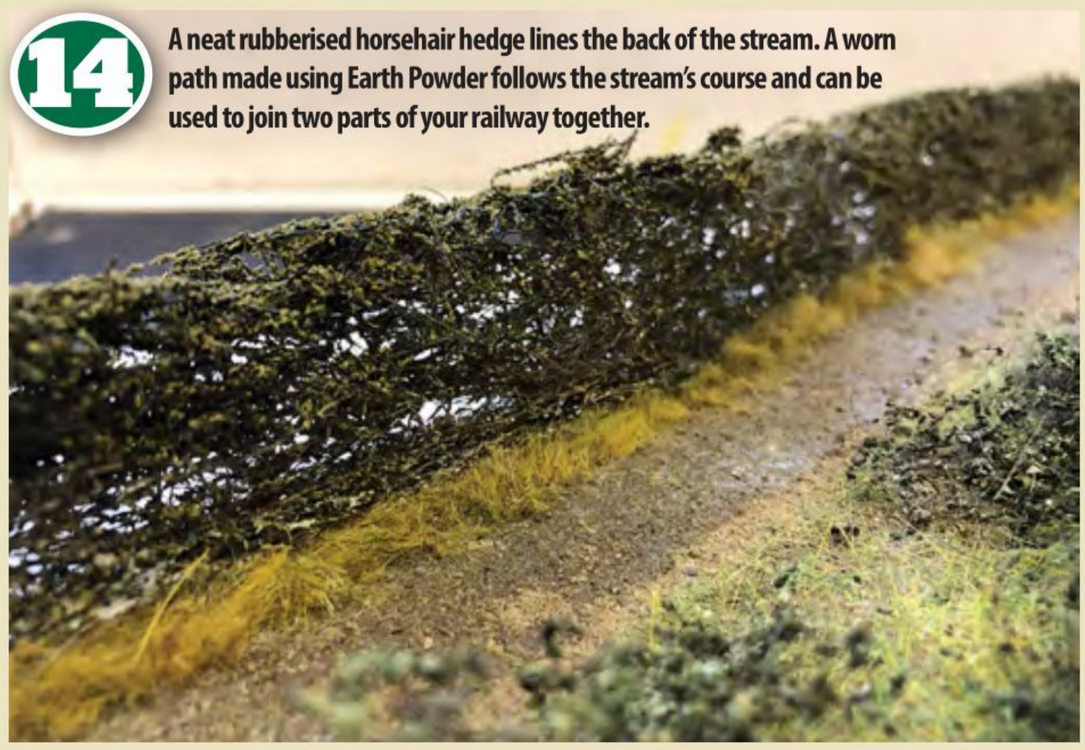


12 Finley chopped raw grass fibres are worked into the static grass with a skewer. This helps blend all the elements together. A light blast of hairspray will hold them in place.

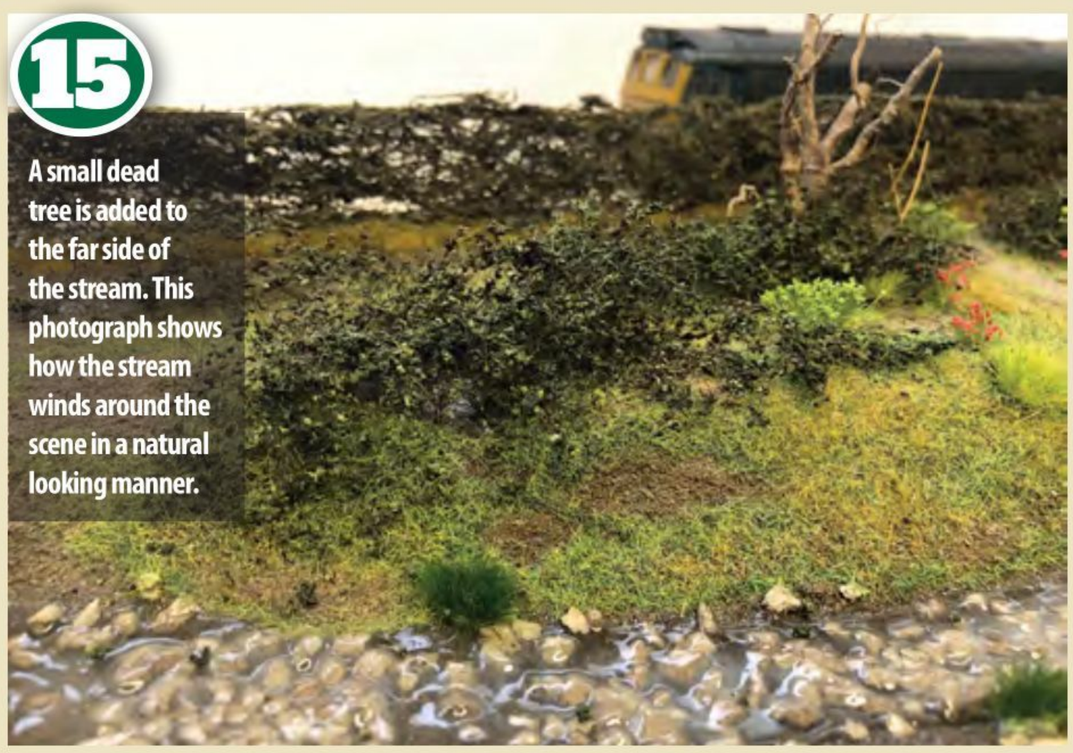


13 A couple of planks of wood made using a painted strip of balsa are added as a crossing point over the shallow stream. It is also blended in using raw grass fibres.

14 A neat rubberised horsehair hedge lines the back of the stream. A worn path made using Earth Powder follows the stream's course and can be used to join two parts of your railway together.



15 A small dead tree is added to the far side of the stream. This photograph shows how the stream winds around the scene in a natural looking manner.



TOOLS

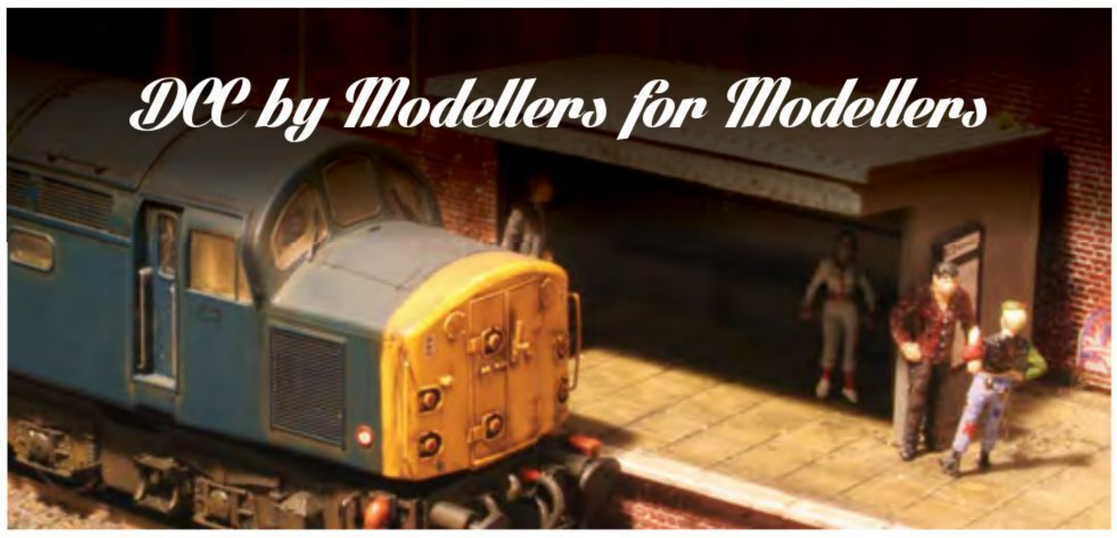
- Spatula
- Paintbrushes
- Wooden skewer/ Cocktail sticks
- Scissors

MATERIALS

- Scatters
- Earth Powder
- Limestone Scree
- Static grass
- Canopy
- Rubberised Horsehair
- PVA glue
- Hairspray

USEFUL LINKS

Deluxe Materials	*www.deluxematerials.co.uk*
Noch	*www.gaugemaster.com*
Treemendus Scenics	*www.treemendus-scenics.co.uk*



Stockists of

Bachrus, Circuitron, Tam Valley, CML Electronic, DCC Specialties, Digitrax, ESU, Express Models, Gaugemaster, LDT, CT Elektronik, Lenz, New Rail Models, Roco, RR-Cirkits, Sprog DCC, Team Digital, TCS, NCE, Zimo. Plus Many More!

Friendly advice, support and installation services

Ipswich Model Railway Centre, Unit 2, 48-52 Tomline Road Ipswich IP3 8DB.

Coastal DCC

+44 (0) 1473 710946

www.coastaldcc.co.uk
enquiries@coastaldcc.co.uk

Dream Steam

Garden Railways

We Are Open
Monday - Friday 10am - 4:30pm
Saturday 10am - 1pm
Vanguard House
Quarry Wood Industrial Estate
Mills Road **Aylesford**
Kent
ME20 7NA
On the main road look out for our **flag** and **swing sign!**
Call us on 0800 022 4473
Or email us at sales@dream-steam.com

You can visit our showroom or order online and over the phone
These are just an example of brands we stock
www.dreamsteam.co.uk

Garden Scale On Our Sister Site: www.dreamsteam.co.uk

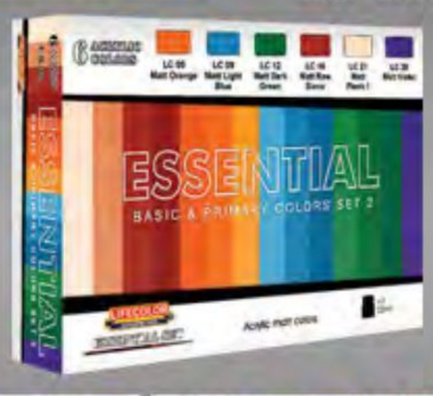
Airbrushes.com

Airbrush Equipment - Paints - Accessories - Training - Servicing - Spares

LIFECOLOR ACRYLIC HOBBY COLORS

LC-ES01

LC-ES02



iwata

Save money on an Iwata Airbrush and Compressor, bundled with LifeColor paints and airbrush cleaners!

Check out our wide range of Z-MODEL KITS at: www.Airbrushes.com

LC-XS10

LC-XS11

LC-XS12

Z-MODEL-SMARTP

LIQUID PIGMENTS · aqua line · LIFECOLOR ACRYLIC HOBBY COLORS · Alclad II · DARKSTAR

www.Airbrushes.com 01903 767800 sales@airbrushes.com

accurascale

WWW.ACCURASCALE.CO.UK

HEAVY TRAFFIC!
BSC PTA/JTA+JUA WAGONS

IN 1:76.2/00 SCALE COMING AUTUMN 2020

PRE-ORDER NOW!

DISPLAY MODELS' BR TYPE 19 Signalbox

Most layouts need at least one signalbox – and they can really help set an era and location. **RICHARD WATSON** builds Display Models' laser cut kit for the BR Type 19 design.

Below: **The completed signalbox has been weathered with a selection of Humbrol washes and powders to take away the stark finish of its fresh paint.**

SUBSCRIBERS
VISIT WWW.KEYMODELWORLD.COM
TO SEE THE PAINTING PROCESS ON VIDEO

THE LASER CUT KIT market is expanding rapidly, and one of the recent new names on the scene is Display Models. The British Rail Type 19 style signalbox is its first full kit for the model railway market having grown out of a previous business in weathering models. The kit consists of laser cut MDF parts together with plastic glazing and brick overlay materials to finish it. All you need to add is glue, paint, time and an interior.

The BR Type 19 signalbox was introduced in the 1950s and was one of the larger designs of 'box. Display Models has used the example at Gainsborough Trent Junction as the inspiration for its model and it employs the same external design.

The kit has been well designed, and the parts generally fit together well with just a little cleaning up in places. A more unusual feature is the inclusion of embossed plasticard to overlay the MDF shell to represent bricks where other laser cut kit designers might engrave the wooden parts. However, the end result is a neat and tidy finish which has relief and finesse. If you wish to add an interior you will need to source your own as the kit does not include those parts.

We used two different types of Deluxe Materials adhesive in construction of the building opting for Roket Card Glue for the main structure and its Glue 'N' Glaze for the glazing which gives a clean and fog free finish to the large panes of glass around the cabin. Alternatively, its new Laser-Cut Kit glue is ideal for this type of project. Completing the model required the use of several paint colours including grey primer for undercoat to prepare the parts for their top coats. Final colours are Terracotta from the Rust Oleum range for the brick work, Matt White from Humbrol for the upper panels and a selection of Tamiya acrylics for the detailed finishing.

In this step by step guide we will show you the process of creating a Display Models British Rail Type 19 signalbox as the model comes out of the box, but we have gone further to customise the model to match the structure at Gainsborough Trent Junction which inspired development of the kit. Join us on *www.keymodelworld.com* to see the full painting process in detail. HMM

Display Models has generated stylised packaging for its signalbox kit. All items are in the box with the exception of paint, glue and an interior.

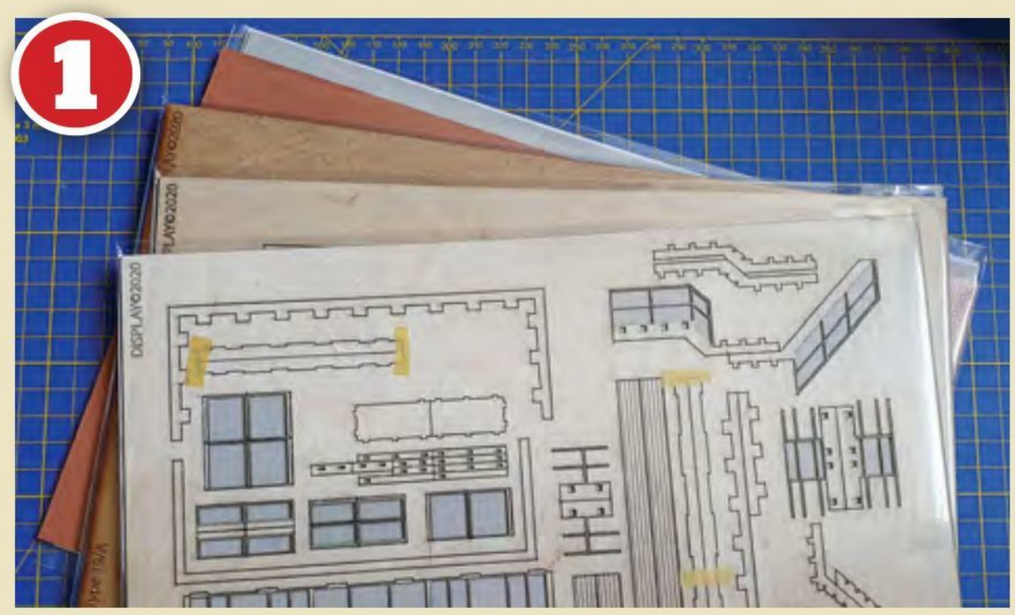
TOOLS

- Cutting Mat
- Craft knife
- Tweezers
- File
- Roket Card Glue
- Deluxe Materials Glue 'N' Glaze
- Masking tape

STEP BY STEP

BUILDING DISPLAY MODELS BR TYPE 19 SIGNALBOX

1



As with all detailed kits, it's always worth getting all the components out and ticking them off to make sure they're all present. There's nothing worse than being halfway through a kit only to find you're missing an essential piece.

2

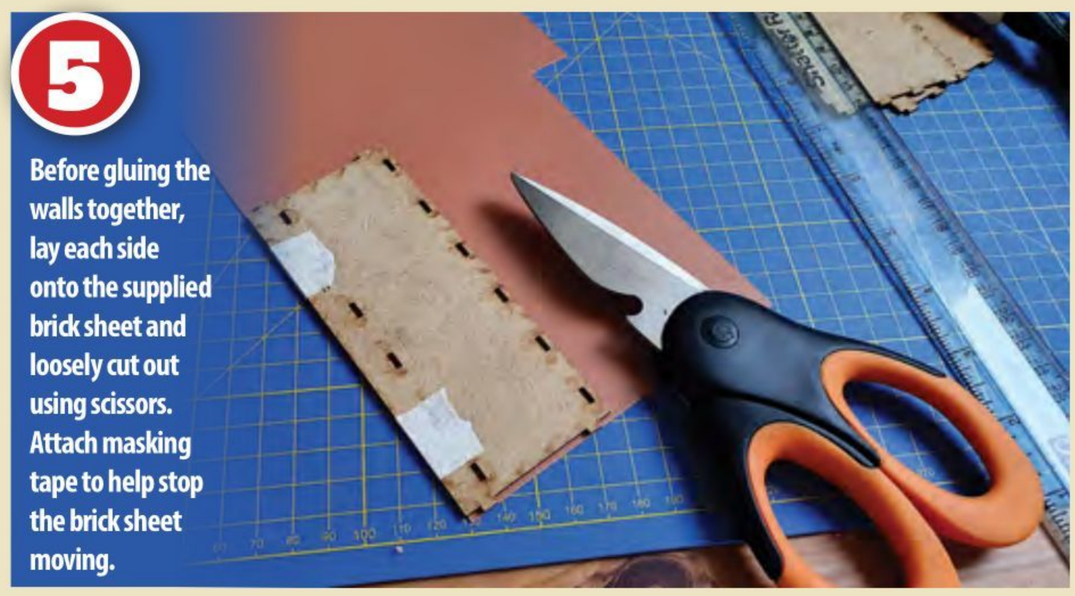
Once all the pieces are all accounted for, it's time to get on with the exciting bit, the build. Using your craft knife, remove all the wall pieces and test fit them together.

WHAT WE USED

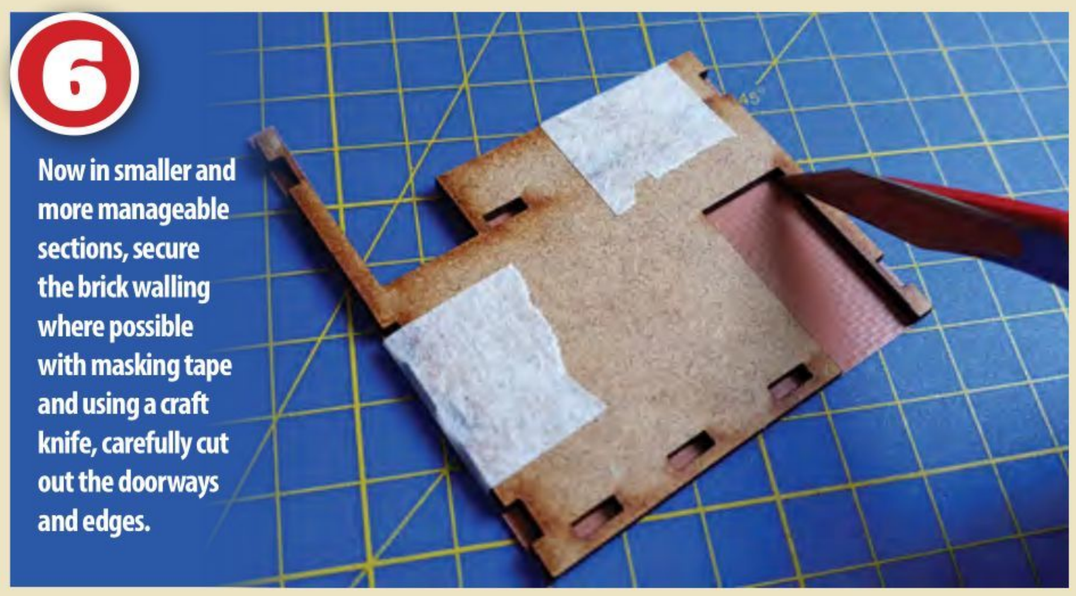
PRODUCT	SUPPLIER	CAT NO.
British Rail Type 19 signalbox kit	*www.displaymatter.co.uk*	M.SB-Type 19/A
Terracotta spray paint	*www.rustoleum.com*	AE0320001E8
Grey Primer spray paint	*www.humbrol.com*	No. 1
Matt White spray paint	*www.humbrol.com*	No. 34
Flat White acrylic	*www.tamiya.com*	XF-2
Flat Blue acrylic	*www.tamiya.com*	XF-8
Neutral Grey acrylic	*www.tamiya.com*	XF-53

3 Dry fitting may throw up some areas that need a file to remove any tabs that aren't quite flush. It is a good idea to do this so it goes together smoothly when glue is added.

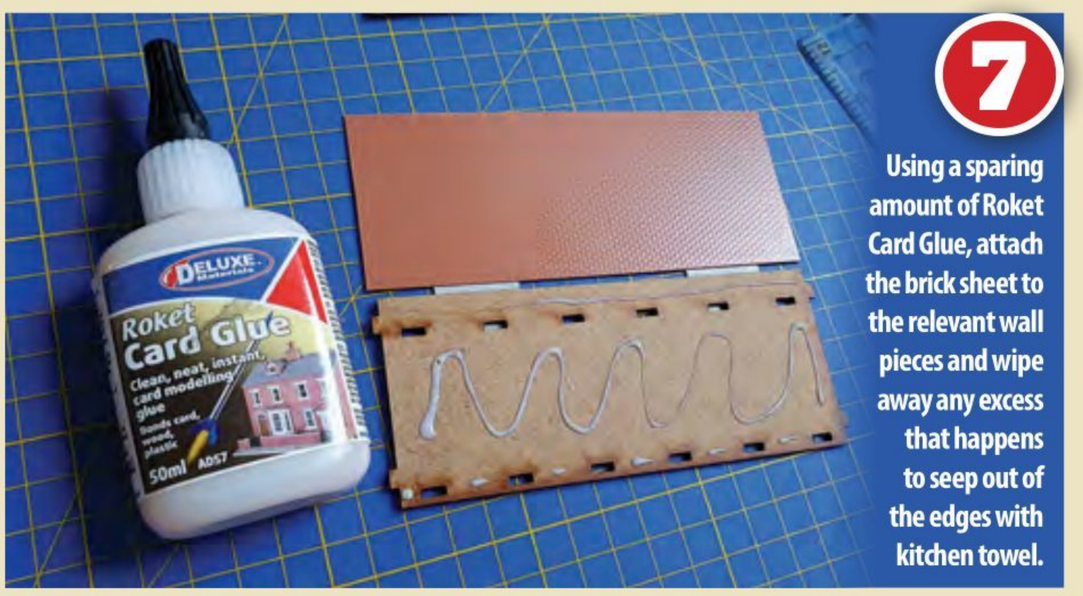
4 It is perfectly normal to need to clean up the edges of parts before joining them together. A few gentle passes with a flat needle file soon sorted these edges ready for gluing.



5 Before gluing the walls together, lay each side onto the supplied brick sheet and loosely cut out using scissors. Attach masking tape to help stop the brick sheet moving.

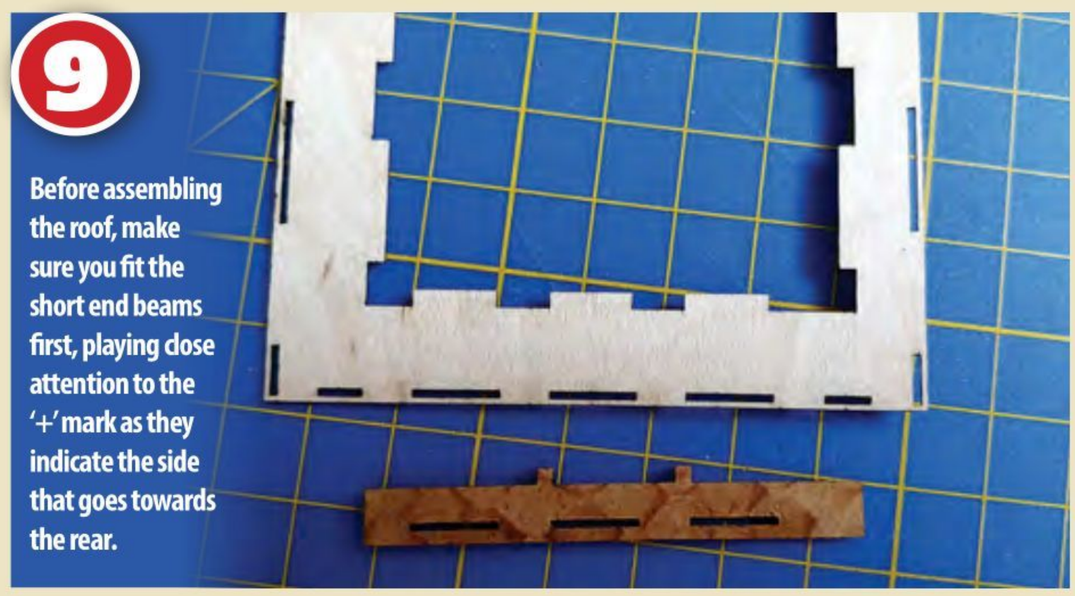


6 Now in smaller and more manageable sections, secure the brick walling where possible with masking tape and using a craft knife, carefully cut out the doorways and edges.

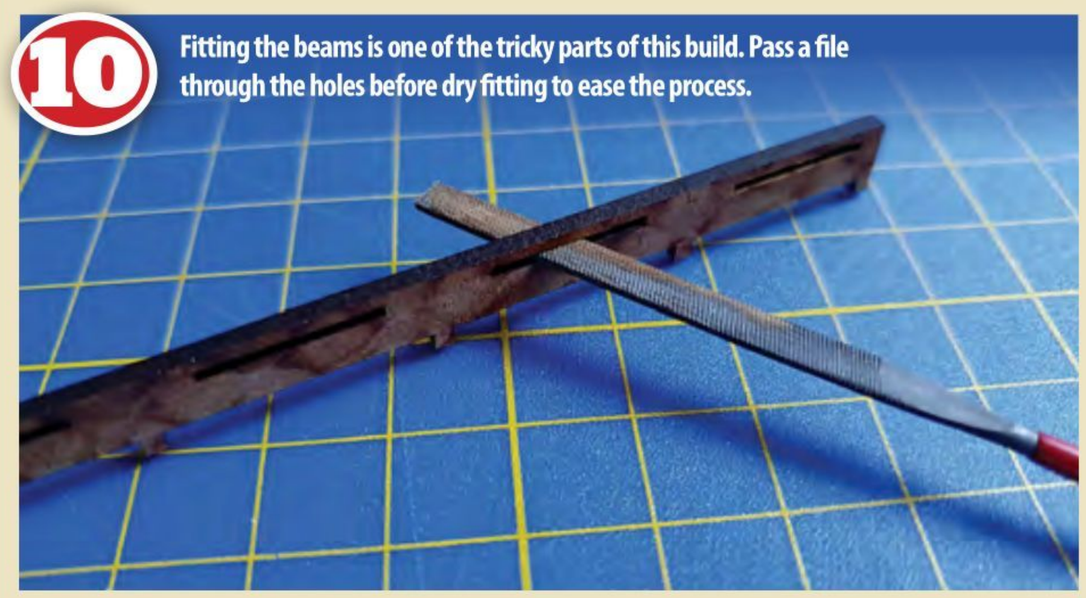


7 Using a sparing amount of Roket Card Glue, attach the brick sheet to the relevant wall pieces and wipe away any excess that happens to seep out of the edges with kitchen towel.

8 Once all four outer walls have been done, set them to one side and wait for the glue to cure. We can now move onto the construction of the roof.

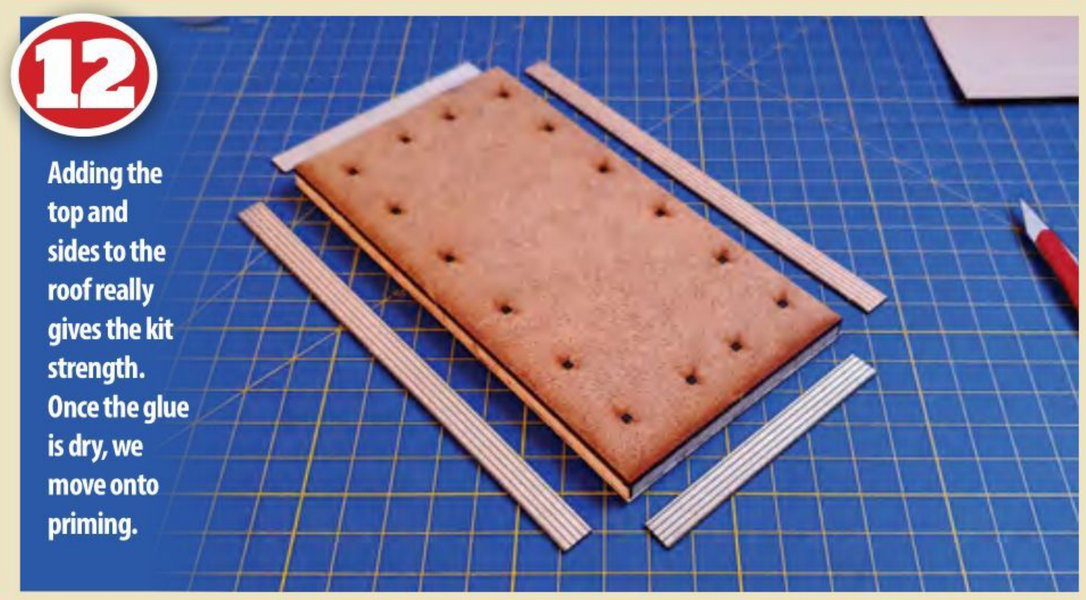


9 Before assembling the roof, make sure you fit the short end beams first, playing close attention to the '+' mark as they indicate the side that goes towards the rear.



10 Fitting the beams is one of the tricky parts of this build. Pass a file through the holes before dry fitting to ease the process.

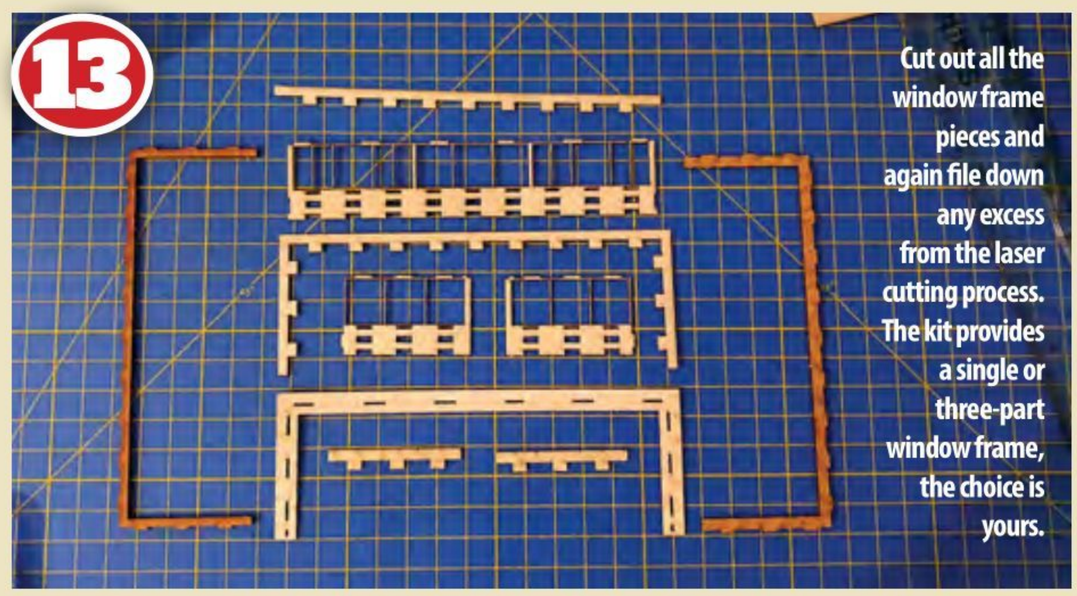
11 Take your time with the outer roof beams. The plywood is particularly thin and could break easily if forced.



12 Adding the top and sides to the roof really gives the kit strength. Once the glue is dry, we move onto priming.

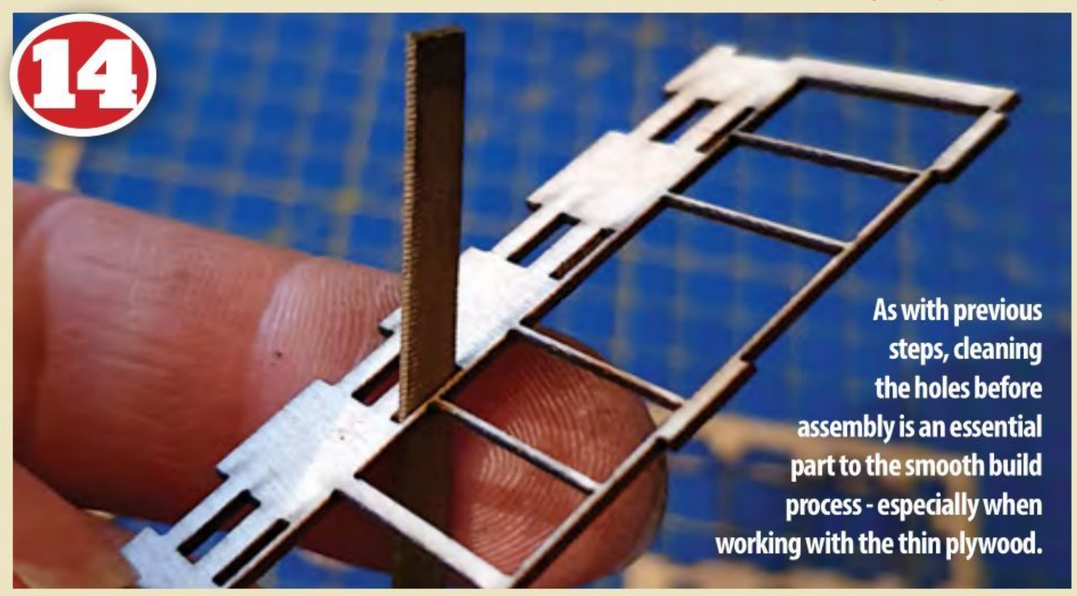
Intermediate
Beginner SKILL LEVEL Advanced

13



Cut out all the window frame pieces and again file down any excess from the laser cutting process. The kit provides a single or three-part window frame, the choice is yours.

14



As with previous steps, cleaning the holes before assembly is an essential part to the smooth build process - especially when working with the thin plywood.

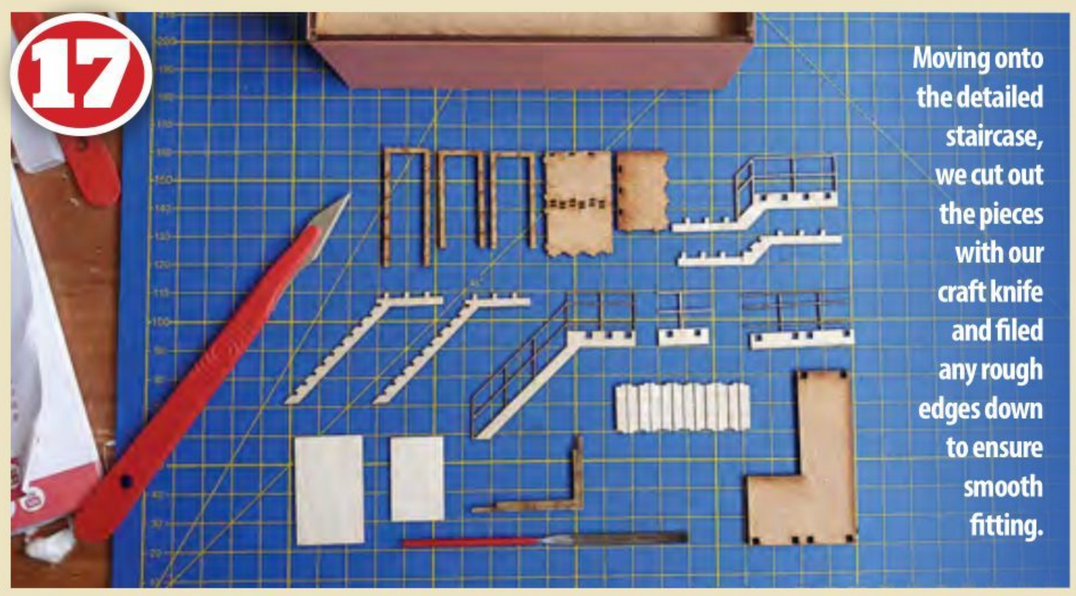
15

Once assembled with the glue dry, the window frame and roof are ready for painting. Note the use of scrap plywood to catch any overspray.

16

To begin painting the building, we used Humbrol acrylic Matt Grey primer followed by the same manufacturer's Matt White. Each piece of the kit required two or three light coats to ensure full coverage.

17



Moving onto the detailed staircase, we cut out the pieces with our craft knife and filed any rough edges down to ensure smooth fitting.

18

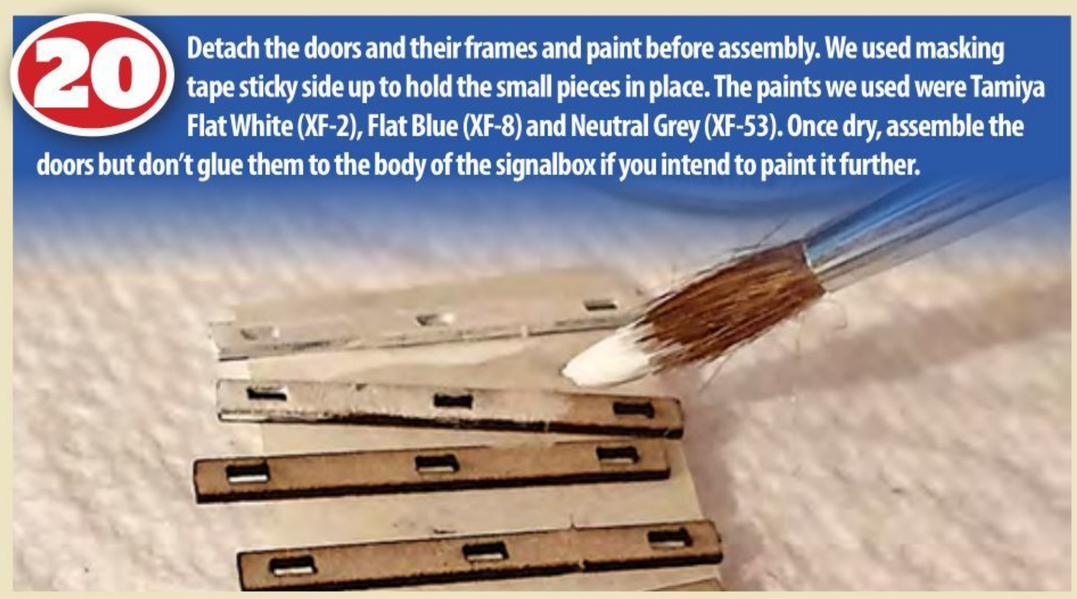
Adding the stairs can be tricky, as it's easy to knock them all out by mistake. Use tweezers to put the steps in one by one, working from the top to bottom as this allows you to spread the frames should you need the flexibility.

19

A few light passes of Humbrol grey primer leave the staircase finished and ready to be placed next to the main building.

20

Detach the doors and their frames and paint before assembly. We used masking tape sticky side up to hold the small pieces in place. The paints we used were Tamiya Flat White (XF-2), Flat Blue (XF-8) and Neutral Grey (XF-53). Once dry, assemble the doors but don't glue them to the body of the signalbox if you intend to paint it further.



21

The kit comes with a sheet of glazing which features the option for blank windows or windows fitted with blinds. We have used the option with blinds and glued them in place with Deluxe Materials Glue 'N' Glaze. Once dry, attach the inside windowsills which we hand painted using Tamiya Flat White.

22

This completes the build process of the Display Models British Rail Type 19 signalbox. Visit *www.keymodelworld.com* to watch a short video detailing the weathering, extra detailing and installation process on our diorama.

A load of rubbish!

Nuclear waste has been a staple rail traffic for decades. **SIMON BENDALL** examines its operation under Direct Rail Services following the release of Accurascale's superb 'OO' gauge wagons.

Right: **The third-height TC03 or 2989 series are not as common as the half-height containers, there being a 44cm difference between the two. These were specifically used for high density solid waste as the weight limit of a half-height container would be reached before it was full. On May 23 2012, PFA DRSL92717 is at Charing, Kent, in the formation of the 6M95 Dungeness to Crewe Coal Sidings. The angled plate on top is a separate and secondary lid known as an 'overlid' that was fitted for transport and designed to assist with rainwater runoff. This was only required if the TC03 box had an older Mark III design of primary lid.** Pat Seale.

Below: **On a glorious June 4, 2013, the DRS pair of 20305 *Gresty Bridge* and 20309 roll through St Bees top-and-tailing the 6Z44 Workington Docks to Sellafield. This is formed of five PFA wagons, three of which are carrying low level waste containers of the TC01 or 2910 half-height design. With Accurascale already producing the wagons and containers, the arrival of Bachmann's Class 20/3 around the end of this year will allow the entire formation to be modelled in 'OO' gauge. These containers were synonymous with the Drigg trip workings and also saw haulage by DRS Class 33s, 37s, 47s, 57s and 66s.** Gordon Edgar.

THE 1990s SAW THE transport of low-level nuclear waste transformed by the introduction of containers, which were introduced by Direct Rail Services (DRS). This requirement was largely fulfilled by surplus Cawoods PFAs, which have gone on to be an important part of the company's fleet to this day.

As the 1990s drew to a close, changes were afoot with the transport of nuclear waste to Sellafield. DRS had taken over an initial batch of workings on behalf of parent company British Nuclear Fuels (BNFL) from January 1996 and the movement of irradiated fuel from power stations would follow in 1999.

The same decade also brought significant alterations to the movement of low-level radioactive waste (LLW) from Sellafield to the repository at Drigg. Following the start of rail operations in 1983, these short trip workings of just over three miles along the Cumbrian Coast Line had employed former OBA open wagons with their sides removed to carry covered skips containing contaminated material such as soil, rubble, paper, plastic, protective clothing and metal for burying. Changes in how such waste was dealt with saw these PFA flat wagons relegated to use as barrier wagons for power station flask traffic under DRS between 1999 and 2002 before withdrawal.

RED BOXES

Instead, 20ft long containers built to ISO standards were introduced to transport compacted waste, these being painted in red oxide. Available in three main versions and with a handful of different lid styles, the most common for rail movements was the TC01 or 2910 series, this half-height (1.32 metres) box being intended for the transport of solid material. This is the container type modelled by Accurascale for its PFA packs. Also noted moving by rail were the slightly wider half-height TC08 or 2947 type, which carried palletised material, and the TC03 »

This Nupak design dates back to the 1990s and holds drums of waste within an outer box. On June 8 2013, two Nupaks were mounted on their transport frame at Crewe on top of DRSL92731. Ultimately bound for Berkeley for loading, this 6Z40 Carlisle-Crewe leg had 57011, 57007 and 37425 up front. Matthew Quarterman.

Of the 20ft ISO boxes, the 2896 series is the most commonly seen as they feature regularly on the Berkeley workings carrying drum waste. One of the original pair of containers, 2896/0019, was recorded on the outskirts of Cheltenham on August 22 2019 loaded on DRSL92733. The rectangular plates at the right-hand end of the container are found only on this side along with two on the roof and cover the locking mechanism. Steve Adcock.

or 2989 style, this one-third high (0.88 metres) container being designed to convey high-density solid waste. All three types were single-use containers as, once loaded, the lid was grouted shut to ensure it was completely sealed.

Such containers were recorded on the rail movements to the Drigg repository by 1999, where they were stacked in open air concrete lined vaults to await covering over with soil or 'capping' at a future date. As well as transporting waste from Sellafield, the 20ft containers were recorded at Workington Docks on occasions, sometimes to be loaded with waste brought in by road for final disposal to Drigg. At other times, the containers were transferred from specialist ships to rail, having been loaded out at sea with naturally-occurring radioactive material, a by-product of off-shore drilling operations.

Sightings of these containers away from the Cumbrian Coast were relatively uncommon - although they did visit power station loading points on occasions. For example, loads of six to eight of the half-height TC01 design were noted at Southminster, while the lower TC03 style was recorded at Dungeness several times in quantities of one to four. The movement of all three types by rail appears to have ceased in late 2016.

WAGON TYPES

To carry the boxes, DRS invested in a small fleet of second-hand container wagons from 1994. The first to arrive was a trio of 56ft long KFA bogie flats (BNFL95474/75/84), these having originally seen use on potash traffic from Boulby and now finished in all-over mid blue, including the bogies. These could carry two 20ft containers and continued in use until around 2005. From 1999, DRS began to employ a handful of the Standard Wagon-built two-axle PFA wagons previously used on the Cawoods coal traffic. By the start of 2002, 23 of the PFAs were owned outright by DRS, these being DRSL92703/12/15-17/21/23/24/30/31/33/40/60/61/66/68/77/79/81/84/98 and DRSL92801/56.

Due to the low deck height of the PFA design and the subsequent encroachment through it of the wheels and associated guards, each wagon requires an additional spacer frame on its deck to provide sufficient clearance to the underside of any waste container. This frame is typically left in place when running empty but not always. Such a measure was not necessary in Cawoods days as the floor of the coal containers was designed to clear the wheels.

In the first half of the 2000s, it was common to see the two-axle PFAs and bogie KFAs working together on the Sellafield-Drigg trips with one or two of the latter accompanied by any number of PFAs up to a dozen or so, although not always with a full load of containers. Once the PFAs were hauled in dedicated rakes, a load of five to seven wagons was typical but with scope for the number to vary either way if traffic levels dictated.

MORE CONTAINERS

The second half of the 1990s also saw new containers developed to transport intermediate level waste (ILW), this category covering such materials as chemical sludge, resins and metal cladding, with shielding required due to the increased level of radiation. One such design was the reusable Nupak 200 by AEA Technology, which saw the waste packaged into drums with up to four stowed in a reinforced outer steel box for transport, the latter providing the impact protection.

With the boxes not conforming to ISO standards in any way, a 20ft transport frame was also created, this having locking clamps positioned to either carry two Nupak boxes side by side or one positioned centrally. The initial batch was numbered in the 3390 series and painted in blue while a later and slightly taller

The Novapak is an enhanced version of the Nupak that was introduced three years ago to offer greater impact protection for the drums inside. As a result, they are somewhat larger but can still be carried two per transport frame. On August 22, 2019 only a single Novapak was on DRSL92731 near Cheltenham, taking the central locating position in order to keep the load balanced. Steve Adcock.

Of all the intermediate level waste containers, those employed for the movement of spent fuel from the Winfrith Dragon reactor are undoubtedly the most unusual. On August 7 2019 DRSL92736 passes through St Bees forming part of the 6K74 1649 Sellafield-Crewe Coal Sidings with 88002 and 88010 providing the power. Dave McAlone.

build were green and in the 3739 range. One use for the Nupaks was to remove waste stored at Drigg for a lengthy period and which required repacking and rehoming in new facilities at Sellafield, while the containers were also observed working to and from Berkeley in the mid 2010s.

A longstanding duty for the PFAs has been the typically once a year movement of reprocessed uranium from Sellafield to an east coast port for shipping to Russia. This is normally sent via Hull Docks but other ports have been used on the odd occasion, such as Felixstowe in 2013. In this instance, the drums are loaded in ribbed containers that conform to the common ISO standards of 20ft long and 8ft 6in high with only slight external differences to mark them out as anything unusual. Designated as the 2031 series, the containers are reusable and again finished in red oxide. The working typically featured 11 to 15 PFAs with the outer pair left empty as barriers and was always worked by a pair of Class 37s, normally in top and tail format, until the Class 68s took over.

Other 20ft containers of standard height have also been noted in nuclear waste traffic and loaded on PFAs from time to time. For example, smooth-sided low-level waste boxes belonging to Samskip (formerly Geest) and more commonly seen on the continent were observed working from Dungeness to Sellafield on a handful of occasions in 2018. Other smooth-sided containers have also visited Workington Docks at times, these typically containing bulky metal items for clean-up by local contractors.

CURRENT WORKINGS

A project that has been ongoing since 2013 or so is the decommissioning and clean-up of the UK Atomic Energy Authority's research sites at Winfrith in Dorset and Harwell in Oxfordshire, which uses Berkeley in Gloucestershire as the rail transfer terminal. From here, the varying types of intermediate level waste are taken to Sellafield for processing using three types of container loaded on PFAs, with trains typically running once a week at present.

Employed from the outset has been a further variant of the full-height 20ft ISO container numbered in the 2896 series. These are a reusable 8ft 6in ribbed design with a single full-width end door that hinges to one side and their role is to carry drums of waste, these varying considerably in size and including heavyweight concrete-lined versions. Between 2013 and 2017, just two of these 2896 series boxes were employed, both finished in red oxide, with a third appearing in 2017 painted in mid blue and then a fourth light-grey example in 2019 with all four still in use today.

Of note is that when these containers are loaded on the PFA spacer frames, they are deemed out of gauge for the Furness line so must travel via Carlisle and approach Sellafield from the north. On occasions, this has resulted in the sight of a PFA accompanying an FNA flask on the trip along the Cumbrian Coast, while similar combinations could also be seen departing Berkeley at times in 2014-2015.

The second container type employed from Berkeley is the Novapak, which were introduced in the autumn of 2017 as an upgraded and stronger replacement for the previously used Nupak. Identical in concept, these can carry up to four 200 litre drums of waste, including plutonium-contaminated material, on an inner frame that is then loaded into an outer steel box that measures 2.2m long and wide with a height of 1.8m. The Novapaks are again mounted, either singly or as a pair, on a 20ft ISO transport frame with the whole assembly finished in light grey.

Finally, there are the unique light blue containers used to carry Dragon fuel from the experimental and long-disused reactor of the same name at Winfrith. These hold 40-litre steel canisters in a tarpaulined-over rectangular box structure again mounted on a 20ft platform.

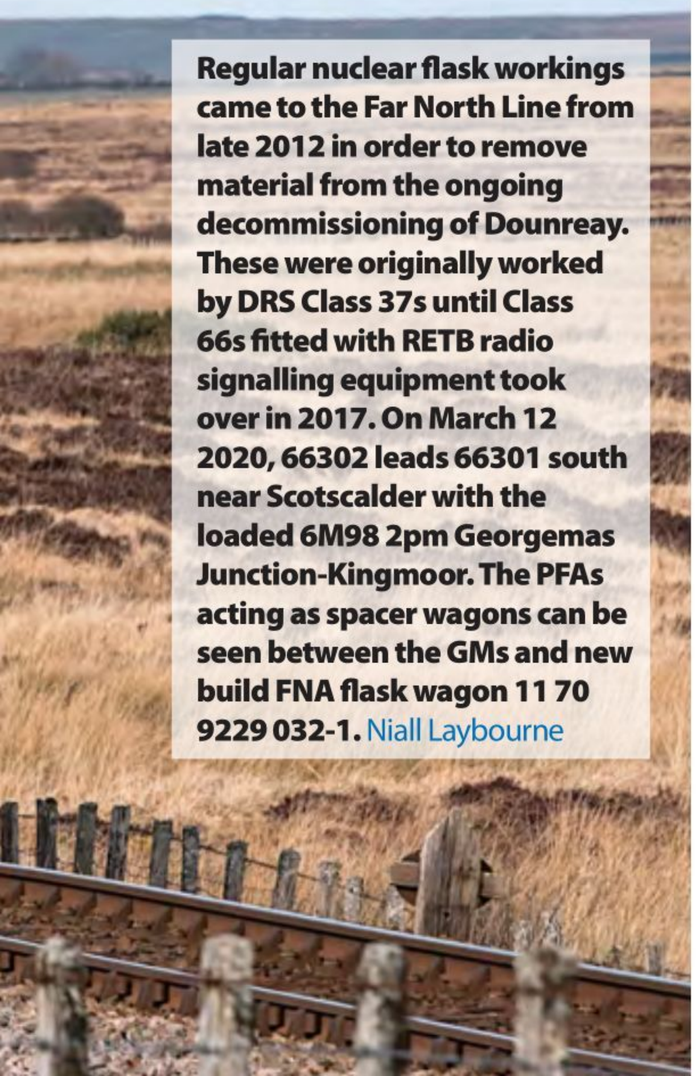
The precise mixture of the three container types dispatched from Berkeley varies from move to move but typically one or two full height 20ft boxes will be seen on most workings while the Novapak and Dragon fuel containers only ever move one at a time. Empty flats can also be seen as well if the number of containers returned south from Sellafield for reloading exceeds the laden northbound ones.

OTHER USES

The other main use for the PFAs with DRS is as runner or spacer wagons. This is most commonly seen on the flask workings to Georgemas Junction, which have been operating since 2012 to remove waste from Dounreay. With the locomotives running in top and tail formation, an empty PFA is inserted between each locomotive and the flask, which lengthens the train and helps distribute the weight. This eases the stresses on the various bridges on the Far North Line as the heavier vehicles are further apart. While the workings nowadays only feature one FNA, when they first started two flasks could sometimes be sent - requiring another PFA in between these. On a handful of runs, two PFAs have also accompanied one of the four-bogie Ministry of Defence KUA flasks instead of the DRS Mk 2a escort coaches.

Similar operations have been recorded on the Cumbrian Coast since the start of the century when large imported flasks required moving from Workington Docks to Sellafield, the empty PFAs being inserted between the four-bogie BNFL wagons to again spread the substantial weight of these trains. Other instances of PFAs running empty on the network over the years have included use as a load on training runs and on transfer between depots for maintenance.

Finally, two PFAs are based at Crewe Coal Sidings, the gated and secure compound to the north of Basford Hall yard used by DRS to principally stable flask trains overnight. Positioned next to the yard office, one carries a blue-painted 20ft toilet and wash container while the other hosts a white 20ft half-height open-top box used as a materials and refuse carrier. Both wagons are periodically tripped to Gresty Bridge TMD for servicing while the two containers are swapped between PFAs from time to time to balance out their use. Hm



Regular nuclear flask workings came to the Far North Line from late 2012 in order to remove material from the ongoing decommissioning of Dounreay. These were originally worked by DRS Class 37s until Class 66s fitted with RETB radio signalling equipment took over in 2017. On March 12 2020, 66302 leads 66301 south near Scotscalder with the loaded 6M98 2pm Georgemas Junction-Kingmoor. The PFAs acting as spacer wagons can be seen between the GMs and new build FNA flask wagon 11 70 9229 032-1. Niall Laybourne

Kernow Model Rail Centre

CAMBORNE
98A Trelowarren Street, TR14 8AN

Visit **www.kernowmodelrailcentre.com** or call our team on **01209 714099**

UK POSTAGE & PACKING = £4 PER ORDER. ORDERS OVER £200 = POST FREE

GUILDFORD
75B Stoke Road, GU1 4HT

EXPECTED SOON - G GAUGE

HORNBY G

R1268 Lionel Hogwarts Express Train Set - Remote Control.....£134.99

IN STOCK - HO GAUGE

ELECTROTREN HO

HES2000 Andrew Barclay 0-6-0 Industrial Steam No. 7 NCB Red.....£53.99
HES2001 Andrew Barclay 0-6-0 Industrial Steam No. 2 "Molly".....£53.99

LATEST ARRIVALS - OO GAUGE

DAPOL OO

4S-018-005 B4 0-4-0T Steam Locomotive No. 30096 BR Black L/C.....£93.95
4S-018-005D B4 0-4-0T Steam Locomotive No. 30096 BR Black L/C. DCC Fitted...£119.99
4S-018-007 B4 0-4-0T Steam Locomotive 'Guernsey' Dark Green Lined.....£93.95
4S-018-007D B4 0-4-0T Steam Loco 'Guernsey' Dark Green Lined. DCC Fitted.....£119.99
4S-018-008 B4 0-4-0T Steam Locomotive No. 100 Southern Black w/Green lining....£93.95
4S-018-008D B4 0-4-0T Steam No. 100 Southern Black Green lining. DCC Fitted.£119.99
4S-018-009 B4 0-4-0T Steam Locomotive No. 87 Southern Wartime Black.....£93.95

4S-018-009D B4 0-4-0T Steam Loco No. 87 Southern Wartime Black. DCC Fitted.£119.99
4S-018-010 B4 0-4-0T Steam Locomotive Sussex Yellow.....£93.95
4S-018-010D B4 0-4-0T Steam Locomotive Sussex Yellow. DCC Fitted.....£119.99
4S-018-011 B4 0-4-0T Steam Locomotive No. 30084 BR Black E/E.....£93.95
4S-018-011D B4 0-4-0T Steam Locomotive No. 30084 BR Black E/E. DCC Fitted...£119.99

HORNBY OO / IMMINENT DELIVERY / ORDER TODAY

R3723 Class 61xx Large Prairie 2-6-2T Steam Locomotive No. 6145 BR Black E/E.£125.99
R3723X Class 61xx Large Prairie 2-6-2T Steam Loco 6145 BR Black. DCC Fitted..£143.99

R3822 Hornby Centenary Year - Limited Edition 1983, Smokey Joe.....£35.99
R60001 Freightliner Container Pack. 1 x 40 and 1 x 20 containers.....£12.59
R60002 Pentalver Container Pack. 1 x 40 and 1 x 20 containers.....£12.59
R60003 ONE Container Pack. 1 x 40 and 1 x 20 containers.....£12.59
R6982 GWR Macaw H Bogie Bolster No. 107136.....£17.99
R6983 BR Bogie Bolster A No. W107402.....£17.99
R6988 Hornby Christmas Wagon 2020.....£14.39
R6998 PD Ports Container Pack. 1 x 40 and 1 x 20 containers.....£12.99
R6999 Malcolm Logistics Container Pack. 1 x 40 and 1 x 20 containers.....£12.99

EXPECTED SOON - OO GAUGE

KERNOW MODELS OO / PRE-ORDERS INVITED

35-500Z Bachmann Class 117 3 Car DMU Set B430 GW 150 Chocolate & Cream.£329.95

35-525Z Bachmann Class 121 Single Car DMU Set 120 GW 150 Chocolate & Cream.£164.95

BACHMANN OO / PRE-ORDERS INVITED

31-390 Class 414 2-HAP No. 6061 BR Green.....£220.99
31-391 Class 414 2-HAP EMU No. 6063 BR Blue & Grey.....£220.99
31-392 Class 414 2-HAP EMU No. 4308 Revised Network SouthEast.....£220.99
31-676A Class 85 No. E3057 BR Electric Blue.....£161.95
32-199 GWR 8750 Pannier Tank No. 3738 GWR Black.....£101.95
32-205A GWR 8750 Pannier Tank No. 8771 BR Lined Black.....£101.95
32-216A GWR 57XX Pannier Tank No. 5775 BR Black L/C.....£101.95
32-217A GWR 57XX Pannier Tank No. L92 London Transport Lined Maroon.....£101.95
32-480 Class 40 Diesel Locomotive No. D248 BR Green w/Indicator Discs.....£160.99
32-486 Class 40 Diesel Locomotive No. 40142 BR Blue w/Split Headcode.....£160.99
32-486SF Class 40 Diesel Loco 40142 BR Blue w/Split Headcode. DCC Fitted.....£237.99
35-500 Class 117 3 Car DMU Set BR Green w/Speed Whiskers.....£267.95
35-501 Class 117 3 Car DMU Set BR Blue & Green.....£267.95
35-502 Class 117 3 Car DMU Set Network SouthEast.....£267.95
35-525 Class 121 Single Car DMU Set BR Green.....£131.95
35-526 Class 121 Single Car DMU Set Blue & Grey.....£131.95
35-527 Class 121 Single Car DMU Set Revised NSE.....£131.95
38-325A 13 Ton High Sided Steel Wagon BR Bauxite (Early).....£22.99
39-175F BR Mk1 BG Brake Gangwayed BR Blue & Grey, weathered.....£48.95
39-180A BR Mk1 BG Brake Gangwayed BR InterCity (Executive).....£44.99
39-184B BR Mk1 BG Brake Gangwayed Royal Mail Letters.....£41.99
39-190 BR Mk1 BG Brake Gangwayed Generator Van Network Rail Yellow.....£44.99
39-421B BR Mk1 POS Post Office Sorting Van Post Office Red with nets.....£59.99
39-422 BR Mk1 POS Post Office Sorting Van Royal Mail Travelling Post Office.....£55.99
39-425A BR Mk1 POS Post Office Sorting Van BR Blue & Grey, weathered.....£59.99
39-430A BR Mk1 POS Post Office Sorting Van Royal Mail Letters.....£55.29

BACHMANN SCENECRAFT OO / PRE-ORDERS INVITED

44-0112 Cylindrical Tanks.....£29.75
44-0501 Wooden Relay Boxes.....£14.00

HORNBY OO / PRE-ORDERS INVITED

R3719 GWR Class 5101 2-6-2T Large Prairie Steam Loco No. 4154 GWR Green..£125.99
R3719X GWR Class 5101 2-6-2T Large Prairie Steam Loco No. 4154. DCC Fitted.£143.99
R3721 GWR Class 61xx 2-6-2T Large Prairie Steam Loco No. 6110 GW Green....£125.99
R3721X GWR Class 61xx 2-6-2T Large Prairie Steam Loco No. 6110. DCC Fitted..£143.99
R3723 Class 61xx 2-6-2T Large Prairie Steam Locomotive No. 6145 BR Black E/E.£125.99
R3723X Class 61xx 2-6-2T Large Prairie Steam Loco No. 6145. DCC Fitted.....£143.99
R3725 GWR Class 5101 2-6-2T Large Prairie Steam Loco No. 4160 BR Green L/C.£125.99
R3725X GWR Class 5101 2-6-2T Large Prairie Steam Loco No. 4160. DCC Fitted.£125.99

FREE POSTAGE ON ORDERS OVER £200 // ORDER SENT SAME WORKING DAY* // LOYALTY POINTS RECEIVED ON ALL PURCHASES WITH US

EXPECTED SOON - N GAUGE

GRAHAM FARISH N

376-200 Thompson 1st Class Corridor LNER Teak.....£35.95
376-201 Thompson 1st Class Corridor BR Crimson & Cream.....£35.95
376-225 Thompson Composite Corridor LNER Teak.....£35.95
376-226 Thompson Composite Corridor BR Crimson & Cream.....£35.95
377-375D 20 Ton Toad Brake Van GWR Grey.....£22.95
377-376B GWR 20 Ton Toad Brake Van BR Grey.....£22.95
377-377A 20 Ton Toad Brake Van BR Bauxite (early).....£22.95

GRAHAM FARISH SCENECRAFT N

42-0018 Small Water Tower.....£29.95
42-0026 Electrical Relay Room.....£21.95
42-0081 Stone Cattle Dock.....£21.95
42-050 Four Road Engine Shed.....£101.99
42-111 Coal Staithes.....£9.95
42-126 Single Road Servicing Shed.....£38.95
42-204 Low Relief Bonded Warehouse.....£42.95
42-215 Low Relief Cinema.....£24.95

*subject to stock levels

VISIT OUR SHOPS IN CAMBORNE & GUILDFORD! CHECK OUR WEBSITE FOR LOCATIONS

We do a DECODER FITTING SERVICE for OO & N Gauge DCC Ready Locomotives...£9.99. If you have other locos you are interested in having fitted with a decoder or sound please phone or email us for a quote

Join our loyalty scheme, points awarded for each pound spent! Sign up to our newsletter at www.kernowmodelrailcentre.com • Kernow Model Rail Centre • @kernowmodelrail

BARGAINS - OO

BACHMANN

31-003A Class O4 Steam Locomotive No. 6184 LNER Black.....£74.95
31-004A Robinson Class O4 Steam Locomotive No. 63762 BR Black E/E, weathered.£79.99
31-041 Class 450 4 Car Desiro EMU Set No. 450 127 South West Trans, weathered.£269.95
31-170 L&YR 2-4-2 Steam Tank No. 50764 BR Black BRITISH RAILWAYS lettering.£79.99
31-190 Jubilee Steam Loco No. 45575 "Madras" BR Black BRITISH RAILWAYS.....£118.99
31-318A Robinson Class J11 (GCR 9) Steam Locomotive No. 5954 LNER Black....£104.99
31-321DS Robinson Class J11 (GCR 9) 64377 BR Black E/E, wthrd. DCC Sound...£164.99
31-379 2EPB 2 Car EMU Set No. 5771 BR Green.....£109.95
31-380 Class 416 2-EPB 2 Car EMU Set No. 6262 BR Blue & Grey, NSE branding.£126.99
31-461A C Class 0-6-0 Steam Locomotive No. 1294 Southern Railway Black.....£69.99
31-614 V3 Steam Locomotive No. 67646 BR Lined Black L/C.....£73.99
31-615 V3 Steam Tank Locomotive No. 67690 BR Lined Black E/E, straight pipes....£73.99
31-627B Class 3F Steam Locomotive No. 3520 LMS Black with Deeley Tender.....£63.99
31-655TL Class 47/4 Diesel Locomotive 47 625 "City of Truro" BR Blue, weathered.£129.99
31-655TLDS Class 47/4 Diesel No. 47 625 "City of Truro", weathered. DCC Sound.£214.95
31-661DS Class 47/3 Diesel Locomotive No. 47 346 BR Dutch. DCC Sound Fitted.£184.95
31-691 LMS Stanier Mogul Steam Locomotive No. 42969 BR Lined Black E/E.....£109.99
31-692 LMS Stanier Mogul Steam Locomotive No. 42968 BR Lined Black L/C.....£96.99
32-067A Class 43 Warship Diesel Locomotive No. D836 "Powerful" BR Blue.....£94.95
32-068 Class 43 Warship Diesel Locomotive No. D838 "Rapid" BR Maroon.....£95.95
32-165 Southern N Class Steam Locomotive No. 31874 BR Lined Black E/E.....£114.99
32-166 Southern N Class Steam Locomotive No. 31874 BR Lined Black E/E.....£109.99
32-176 LMS Crab Steam Locomotive No. 42765 BR Lined Black E/E.....£82.99
32-178A LMS Crab Steam Locomotive No. 13174 LMS Lined Black.....£81.99
32-279A K3 Class Steam Locomotive No. 1304 LNER Lined Black.....£88.99
32-281 K3 Class Steam Locomotive No. 61862 BR Lined Black E/E.....£88.99
32-289 Class 101 2 Car DMU BR Refurbished White & Blue.....£136.95

32-370NF Class 37/4 Diesel Loco 37 425 "Concrete Bob/Sir Robert McAlpine" DRS.£124.95
32-370NFDS Class 37/4 No. 37 425 "Concrete Bob/Sir Robert McAlpine". DCC Sound.£194.95
32-376A Class 37/4 Diesel Locomotive No. 37 422 "Robert. F. Fairlie", weathered...£109.99
32-560 Class A1 Steam Locomotive No. 60117 BRITISH RAILWAYS Apple Green..£114.95

32-575A Ivatt Class 4MT Steam Locomotive No. 3000 LMS Black.....£82.99
32-737 Class 66 Diesel Locomotive No. 66 065 EWS DBS Branding, weathered.....£109.99
32-738 Class 66 Diesel Locomotive No. 66 711 "Sence" GBRF Aggregates.....£99.99
32-753DS Class 57/0 Diesel Loco No. 57 007 "Freightliner Bond" Freightliner.....£189.99

32-775NF Class 37/0 Diesel Locomotive No. 37 104 Railfreight Triple Grey.....£129.99
32-775NFDS Class 37/0 Diesel Locomotive No. 37 104. DCC Sound.....£209.95

32-775TL Class 37/0 Diesel Locomotive No. 37 055 "Rail Celebrity" Mainline Freight.£139.95
32-775TLDS Class 37/0 Diesel Loco No. 37 055 "Rail Celebrity". DCC Sound.....£214.95
32-780U Class 37 Diesel Locomotive No. 37 261 DRS.....£119.99
32-780UDC Class 37 Diesel Locomotive No. 37 261 DRS. DCC Fitted.....£139.99
32-780UDS Class 37 Diesel Locomotive No. 37 261 DRS. DCC Sound Fitted.....£219.99
32-830A Ivatt Class 2MT 2-6-0 Steam Locomotive No. 6418 LMS Plain Black.....£99.99
32-992 Wickham Type 27 Trolley Car BR Engineers Yellow.....£45.95
34-328A 50ft Ex LMS Pill Parcels Van No. M31253 BR Blue, weathered.....£19.99
34-630A BR Mk1 Suburban Second Brake Coach No. M43226 BR Lined Maroon.....£25.95
34-630B BR Mk1 Suburban Second Brake Coach No. M43301 BR Lined Maroon.....£24.99
34-700C BR Mk1 Suburban Composite Coach No. M41014 BR Lined Maroon.....£24.99
35-050 LNWR Webb Coal Tank 0-6-2 Steam Locomotive No. 1054 LNWR Black.....£84.99
35-051 LNWR Webb Coal Tank 0-6-2 Steam Locomotive No. 7841 LMS Black.....£84.99

35-076A Class E4 0-6-2 Steam Locomotive No. 2517 Southern Green.....£84.99
35-079 Class E4 0-6-2 Steam Locomotive No. 32494 BR Lined Black E/E.....£84.99
37-039 5 Plank Wagon Steel Floor No. 45 Helwith Bridge Road Stone Quarry, weathered.£14.95
37-040 5 Plank Wagon Steel Floor No. 362 I.C.I. (Lime) Ltd with Load, weathered....£14.95
37-071 5 Plank Wagon Wooden Floor No. 22 Cumberland Tarred Slag w/Load, wthrd.£14.95
37-072 5 Plank Wagon Wooden Floor No. 136 W. H. Wallis & Co Evesham.....£12.95
37-073 5 Plank Wagon Wooden Floor No. 13 Carlisle Co-Op with load.....£13.95
37-097 Coal Trader Pack. 3 x 5 Plank Wagons in weathered finish.....£37.95
37-185A 7 Plank Wagon with Coke Rails BR Cory.....£14.95
37-327D 90 Ton JGA Bogie Hopper BLI 19215 Buxton Lime, weathered.....£32.95
37-529B 20 Ton Brake Van No. 182897 LNER Oxide, weathered.....£18.95
37-535C 20 Ton Brake Van CAR No. B955016 BR Railfreight.....£17.95
37-550B 46T POA Mineral Wagon No. TRL5384 Yeoman Tiger, weathered.....£12.95
38-005D 46 Ton HEA Hopper Wagon No. 360265 BR Bauxite.....£17.95
38-042A 31 Ton OBA Open Wagon No. 110719 BR Plasmor Blockfreight.....£17.99
38-105 Triple Pack 34 Ton PNA Wagons Railtrack 5 Rib, weathered.....£41.99
38-190B 10 Ton BR Insulated Van No. B872154 BR Light Blue.....£14.95
38-243 MBA Megabox Bogie Box Wagon No. 500006 EWS, weathered.....£30.95
38-245A MOA Low-Sided Bogie Box Wagon No. 500336 EWS, weathered.....£36.95
38-329A 13 Ton High Sided Steel Wagon No. 278985 LNER Grey.....£16.95
38-330 13 Ton High Sided Steel Wagon No. E279122 BR Grey.....£16.95
38-400A SR 25 Ton Pill Box Brake Van No. 56462 SR Brown.....£18.95
38-404A SR 25 Ton Pill Box Brake Van ZTO No. DS56471 BR, weathered.....£18.95
38-553A Midland 20 Ton Brake Van No. 134900 LMS Bauxite without Duckets.....£17.95
38-554 Midland 20 Ton Brake Van No. M623 Midland Railway Grey.....£17.95

38-990 20 Ton Brake Van & SR Pill Box Twin Pack NSE "Return to Old Oak Common".£36.95
39-002 Twin Pack BR Mk2A BFK HST Barrier Vehicles BR Blue.....£54.99
39-003 Mk1 Coach Pack BR Blue & Grey with NSE branding, weathered.....£69.99
39-004 Mk1 Coach Pack BR Blue & Grey with ScotRail branding, weathered.....£69.99
39-005 Highlander Coach Pack.....£97.99
39-025E BR Mk1 SK Second Corridor Coach No. M25704 BR Blue & Grey.....£27.99
39-026E Mk1 SK Second Corridor Coach No. M24911 BR Maroon.....£27.95
39-050D BR Mk1 Open Coach SO No. M4243 BR Blue & Grey.....£29.99
39-052E BR Mk1 SO Second Open Coach No. M3741 BR Crimson & Cream.....£29.99
39-056A BR Mk1 TSO Tourist Second Open Coach No. 4854 Regional Railways, wthrd.£36.99
39-082B BR Mk1 BSK Brake Second Corridor Coach No. 35329 Network SouthEast.£27.95
39-100C BR Mk1 RU Restaurant Car No. E1974 BR Blue & Grey.....£27.99
39-103C BR Mk1 RU Restaurant Car No. E1925 BR Maroon.....£33.99
39-105 BR Mk1 RU Restaurant Car No. W1900 BR Crimson & Cream.....£33.99
39-125C BR Mk1 CK Composite Corridor Coach No. M16153 BR Blue & Grey.....£27.95
39-126C BR Mk1 CK Composite Corridor Coach No. M15916 BR Maroon.....£27.99
39-127B BR Mk1 CK Composite Corridor Coach No. E15055 BR Crimson & Cream.£27.99
39-150D BR Mk1 FK First Corridor Coach No. E13241 BR Blue & Grey.....£28.99
39-152B BR Mk1 FK First Corridor Coach No. E13113 BR Crimson & Cream.....£27.99
39-153D BR Mk1 FK First Corridor Coach No. S13006 BR (SR) Green.....£33.99
39-176D BR Mk1 BG Full Brake Coach No. E80533 BR Maroon.....£27.95
39-177C BR Mk1 BG Full Brake Coach No. M80565 BR Crimson & Cream.....£27.95
39-186 BR Mk1 BG Full Brake Coach QRX No. ADB 975612, weathered.....£27.99
39-187 BR Mk1 BG Full Brake Coach NCV No. 95310 BR Blue.....£27.99
39-188 BR Mk1 BG Full Brake Coach No. 92354 Network SouthEast.....£27.99
39-225A BR Mk1 BCK Brake Composite Corridor Coach No. E21222 BR Blue & Grey.£27.99
39-228D BR Mk1 BCK Brake Composite Corridor Coach S21275 BR (SR) Green.£34.99
39-240 BR Mk1 FO First Open Coach No. M3001 BR Crimson & Cream.....£32.99
39-241 BR Mk1 FO First Open Coach No. M3001 BR Maroon.....£33.99
39-242 BR Mk1 FO First Open Coach No. M3002 BR Blue & Grey.....£27.99
39-250A BR Mk1 RFO Restaurant Car No. M5 BR Blue & Grey.....£27.99
39-251D BR Mk1 RFO Restaurant Car No. M1 BR Maroon.....£27.99
39-265 BR Mk1 RMB Miniature Buffet Car No. M1865 NSE.....£28.99
39-274 BR Mk1 GUV No. E93326 BR Blue & Grey InterCity Motorail.....£27.99
39-292 BR Mk1 FP Pullman First Parlour "Pearl" Umber & Cream working internal lights.£53.99
39-310C BR Mk1 SP Pullman Second Parlour Coach No. 350 Umber & Cream.....£37.99
39-312 BR Mk1 SP Pullman Second Parlour Coach No. E352E BR Blue & Grey.....£36.99
39-361A BR Mk2a TSO Tourist Second Open Coach No. E5406 BR Blue & Grey.....£29.99
39-364 BR Mk2A TSO Tourist Second Open Coach No. 5278 Regional Railways, wthrd.£47.99
39-410A BR Mk2a BFK Brake First Corridor Coach No. W17069 BR Blue & Grey.....£28.99
39-412A BR Mk2a BFK Brake First Corridor Coach No. 17097 Network SouthEast...£27.99
39-413 BR Mk2A BFK Brake First Corridor Coach No. 35516 Regional Railways, wthrd.£47.99
39-470A LMS 60ft Porthole Corridor Brake 1st Coach No. M5077M BR, weathered.£31.99
39-502A BR Mk1 SLSTP Second Class Sleeper Car No. E2591 BR Maroon.....£28.99
39-503A BR Mk1 SLSTP Second Class Sleeper Car No. E2681 BR Blue & Grey.....£28.99
39-528A Ex-Southern CCT Covered Carriage Truck No. S1751 BR Blue, weathered..£26.99
39-529 Ex-Southern CCT Covered Carriage Truck No. ABD975276 BR.....£23.99
39-578 BR Auto Trailer No. W234 BR Crimson & Cream.....£49.99
39-579 BR Auto Trailer No. W236W BR Unlined Maroon.....£49.99
39-580 BR Auto Trailer No. W231W GWR Chocolate & Cream as preserved.....£49.99
39-777A LMS 50ft Inspection Coach No. M45030M BR Blue & Grey.....£39.99

DAPOL

4D-006-006D Class 73/1 Electro-Diesel Locomotive 73 138 Dutch Civil Engineers.£119.99

HORNBY

R3373 Class 71 Electric Locomotive No. E5001 BR Green with small yellow panel...£99.99
R3376 Class 71 Electric Locomotive No. E5022 BR Green with no yellow ends.....£94.99
R3397 LMS Suburban Passenger Train Pack - Limited Edition.....£149.99
R3398 Lyme Regis Branch Line Train Pack - Limited Edition.....£129.99
R3399 EWS Freight Train Pack - Limited Edition.....£139.99
R3405 J50 Class 0-6-0T Steam Locomotive No. 585 LNER Black.....£62.99
R3406 J50 Class 0-6-0T Steam Locomotive No. 14 Departmental BR Black L/C.....£62.99
R3407 J50 Class 0-6-0T Steam Locomotive No. 68959 BR Black E/E.....£62.99
R3408 4-6-0 6000 King Class Steam Locomotive No. 6016 "King Edward V" GWR.£114.99
R3409 4-6-0 6000 King Class Steam Locomotive No. 6002 "King William IV" BR L/C.£114.99
R3410 4-6-0 6000 King Class Steam Locomotive No. 6025 "King Henry III" BR E/E.£114.99
R3411 Maunsell S15 Class Steam Locomotive No. 827 Southern Black.....£89.99
R3412 Maunsell S15 Class Steam Locomotive No. 30842 BR Black E/E.....£79.99
R3413 Maunsell S15 Class Steam Locomotive No. 30831 BR Black L/C.....£79.99
R3414 Maunsell J15 Class 0-6-0 Steam Locomotive No. 5444 LNER Black.....£71.99
R3415 J15 Class Steam Locomotive No. 65477 BR Black E/E.....£71.99
R3416 J15 Class Steam Locomotive No. 65464 BR Black.....£108.99
R3417 K1 Class Steam Locomotive No. 62065 BR Black.....£89.99
R3418 K1 Class Steam Locomotive No. 62006 BR Black.....£94.99
R3422 Adams Radial 415 Class Steam Locomotive No. 3125 SR Black.....£66.99
R3423 Adams Radial 415 Class Steam Locomotive No. 30583 BR Black L/C.....£66.99
R3448 B17 Class Steam Locomotive No. 61619 "Welbeck Abbey" BR E/E.....£99.99
R3452 6800 Grange Class Steam Loco No. 6825 "Llanvair Grange" BR Green L/C.£89.99
R3461 Thompson L1 Class Steam Locomotive No. 67702 LNER Green.....£99.99
R3462 42xx Class Steam Locomotive No.4287 BR Black E/E.....£89.99
R3463 52xx Class Steam Locomotive No. 5241 BR Black E/E.....£89.99
R3473 Class 56 Diesel Locomotive No. 56 108 Red Stripe Railfreight.....£99.99
R3516 GWR King Class Steam Locomotive No. 6004 "King George III" GWR Green.£139.99
R3521 D16/3 Class Steam Locomotive No. 8802 LNER Black.....£79.99
R3541 Raven Q6 Class Steam Locomotive No. 2265 LNER Black.....£91.99
R3738 A3 Class 2-6-2 Steam Loco No. 4472 "Flying Scotsman" Alan Pegler...£199.99
R4534D BR Pull-Push Coach Pack.....£62.99
R4534E BR Pull-Push Coach Pack Set No. 601.....£62.99
R4656A LMS Non-Corridor 57ft Composite Coach No. 16612.....£24.99
R4657A LMS Non-Corridor 57ft Third Class Coach No. 11718.....£24.99
R4677B LMS Non-Corridor 57ft Third Class Brake Coach No. 20754.....£24.99
R4677C LMS Non-Corridor 57ft Third Class Brake Coach No. 20755.....£24.99
R4691A ex LMS Non-Corridor 57ft Third Class Brake Coach No. M20788M BR.....£24.99
R4774 BR Mk1 Coach Corridor 2nd Class BSK No. W34845 BR Blue & Grey.....£23.99
R4775 BR Mk1 Coach Second Open SO Coach No. W4804 BR Blue & Grey.....£23.99
R4776 BR Mk1 Coach Tourist Second SO No. W5025 BR Blue & Grey.....£23.99
R4777 BR Mk1 Brake Second Open BSO Coach No. W9353 BR Blue & Grey.....£23.99
R4778 BR Mk1 First Open FO Coach No. W3123 BR Blue & Grey.....£23.99
R4926 Sovereign Midland Commuter Coach Pack.....£99.96
R4927 Sovereign BR Midland Suburban Coach Pack.....£99.96
R6791 OTA Timber Wagon No. 112265.....£26.99
R6802 SR Brake Van No. 55891 SR Brown.....£12.99

KMRC MODELS

38-260Y Delabole Slate Presflo Wagon Triple Pack, BR Bauxite.....£49.99
K2106 0-4-4T Class O2 No 30193 BR Black E/E.....£99.99
SB005Z SPA Open Wagon EWS Bulk Pack of 4.....£79.99

WOODLAND SCENICS

ST4801 Mod-U-Rail Straight Module.....£99.99
ST4802 Mod-U-Rail Corner Module.....£119.99

BARGAINS - N

DAPOL

2D-022-004 Class 68 Diesel Locomotive No. 68 014 Chiltern.....£89.99

GRAHAM FARISH

370-430 Capital Connection Train Pack.....£161.95
371-329 Class 150/2 2 Car Sprinter DMU No. 150 247 BR Provincial, weathered....£110.95
371-505 Class 101 2 Car DMU Set No. L837 BR Network SouthEast.....£107.95
371-651A Class 57/0 Diesel Locomotive 57 008 "Freightliner Explorer", weathered.£102.99
372-030 Castle Class Steam Loco No. 5044 "Earl of Dunraven" GWR Lined Green.£99.99
372-629 Ivatt Class 2MT 2-6-0 Steam Locomotive 46460 BR Black E/E, weathered.£102.99
372-980 Class 24 Diesel Loco 97 201 "Experiment" RTC Red & Blue, weathered.£99.99
373-360A BR Mk1 Horse Box No. E96307 BR Maroon.....£16.95
373-362A BR Mk1 Horse Box No. S96413 BR (SR) Green.....£17.99
373-626A 31 Ton OBA Open Wagon No. 110717 Railfreight Red & Grey, weathered.£16.00
373-629 31 Ton OBA Open Wagon No. 110521 BR Railfreight Brown.....£14.00
373-975B 46T POA Mineral Wagon No. TRL5384 'Tiger' Grey, weathered.....£12.99
373-976B 46T POA Mineral Wagon No. TRL5320 ARC, weathered.....£12.99
374-042 BR Mk1 BG Full Brake Coach NEX No. 92002 Intercity.....£20.99
374-135 BR Mk1 GUV QRV No. KDB977557 Satlink.....£26.99
374-161A BR Mk1 FK First Corridor Coach No. M13323 BR Maroon.....£20.95
374-165 BR Mk1 FK First Corridor Coach No. M13341 Intercity.....£22.95
374-167 BR Mk1 FK First Corridor Coach No. 13225 Regional Railways.....£26.99
374-191 BR Mk1 BSK Brake Second Corridor Coach QVA No. ADB977109 BR.....£28.99
374-192 BR Mk1 BSK Brake Second Corridor Coach No. M35451 Intercity.....£20.99
377-206A 8 Plank Wagon No. P192891 'Suncole', weathered.....£15.99
377-346 Conflat with Vented Alloy BA Container Speedfreight.....£14.50
377-379 20 Ton Toad Brake Van BR Departmental Yellow.....£16.99
377-490 Triple Pack China Clay 5 Plank Wagons GWR Grey.....£31.50
377-650A MBA Megabox High-Sided Bogie Box Wagon 500006 EWS, weathered.£25.99
377-651A MBA Megabox High-Sided Bogie Box Wagon 500067 EWS, weathered.£25.99
377-775 12 Ton Pipe Wagon ZDV No. KDB484176 BR Engineers Olive Green.....£13.50
377-776 12 Ton Pipe Wagon ZDV No. B741318 BR Bauxite (early).....£13.50
377-777 12 Ton Pipe Wagon No. B484163 BR Bauxite (late).....£13.50
377-877 Queen Mary Brake Van YTX No. ADS58299 EWS, weathered.....£21.95
377-925A PCA Metalair Bulk Powder Wagon 11026 Blue Circle Cement, weathered.£19.95
377-954A 13 Ton High Sided Steel Wagon No. 278985 NE Grey.....£12.99
377-955 13 Ton High Sided Steel Wagon B483417 BR Bauxite, weathered.....£11.50
377-956 13 Ton High Sided Steel Wagon B481230 BR Bauxite, weathered.....£11.50
377-957 13 Ton High Sided Steel Wagon E279122 BR Grey w/smooth sides.....£11.99
377-975A 12 Ton Eastern Ventilated Van No. 235738 LNER Oxide.....£11.99
377-976A 12 Ton Eastern Ventilated Van No. E236010 BR Early Bauxite.....£16.95

BARGAIN BUNDLES - OO

K2104PACK O2 and Water Column Pack.....£129.99
K9604 Class 47 HST Barrier Coach Pack.....£179.99
K9611 Bachmann NSE Mk1 Coach Pack.....£74.99
K9613 Hornby Maroon Collet Coach Pack.....£129.99
K9614 Hornby GWR Collet Bow Ended Coach Pack.....£149.99
K9615A Hornby SR Bulleid Coach Pack.....£99.99
K9972 Mainline Freight Ballast Pack.....£199.99
K9980 Bachmann City of Truro Cornish Pack.....£139.99
K9998A Bachmann Scenecraft China Clay Dries Pack with FREE Landrover.....£99.99

FOR OUR FULL RANGE PLEASE VISIT WWW.KERNOWMODELRAILCENTRE.COM // PRICES CORRECT AT TIME OF PRINT BUT ARE SUBJECT TO CHANGE

CALL OUR TEAM ON **01209 714099** • PLEASE SEND MAIL ORDERS TO **98A TRELOWARREN STREET, CAMBORNE, CORNWALL, TR14 8AN**

HORNBY®

MADE IN CHINA

Hornby's decision to move production to the far east was considered highly controversial at the time, but the move secured the company's future, as **MARK CHIVERS** explains.

Hornby moved manufacturing to China in the late 1990s, but it was the new 'Merchant Navy' 4-6-2 of 2000 which really showed what was possible. This Southern 4-6-2 was the first of the modern models we have today from Hornby.

HORNBY'S transferral of production to the far east in the 1990s came out of necessity. Without it, the company would not have survived in its present state. The decision was not taken lightly at the time, even at senior levels.

As the 1980s approached there was growing competition from other manufacturers and new electronic toys. Not only that, the company was in difficult territory once again following the collapse of Dunbee Combex Marx in 1980. A management buyout secured the company the following year, but action was required to improve its turnover as sales of its model railway and slot-car products were suffering.

The competition was also in trouble, but the former Airfix/Palitoy tooling re-appeared in the 1980s with new players Dapol, Replica Railways and eventually Bachmann Europe in 1990. Detailing and decoration was still ahead of what Hornby was producing at the time. Hornby needed to transition too, as up to this point it was still very much in the toy trains market.

Simon Kohler, now Marketing and Product Development Director, recognised this at the time and Hornby responded to the competition to a degree, but was still constrained by the level of decoration possible – many of the China-produced steam locomotives would feature two or three-colour boiler lining, while Hornby's lining was still applied by bow-pen. Communicating this to senior management was difficult and Simon recalled one meeting where he was informed that the planned Great Western Railway (GWR) '28XX' 2-8-0 would be the last new model Hornby would produce.

MAKING CONTACT

As it turned out, thankfully this was not the case and Simon continued to keep an eye on what was being produced in China. He was keen to see what could be done. He made contact with the team at the Sanda Kan factory which had been producing model railway products for the UK market and agreed a trial to ship tooling for a couple of existing models – Hornby's Ivatt '2MT' 2-6-0 and the Tri-ang era Holden 'B12' 4-6-0, to see what they could achieve. Hand decorated samples of each were supplied to the factory to see if they could match the quality.

Whilst the 'Mickey Mouse' 2-6-0 was not progressed, a decorated sample of the 'B12' appeared and as Simon recalls: "Not only did they do it, they did it better, because they added more decoration and it was like, fantastic!" An all-new 'OO' gauge model was also discussed - BR's Class 92 electric - to go up against Lima. It was to be designed in the UK but tooled and produced in China. Senior management were still hesitant, so Simon arranged a self-funded trip to see the operation at Sanda Kan for himself.

Around this time, Peter Newey took over as Chief Executive and set a new senior management team in place. Out went the toys and there was renewed focus to improve the fortunes of Hornby and Scalextric. Following a presentation to the team it became apparent that a production move was inevitable. And it wasn't necessarily all about being cheaper: it was reckoned the products were better too. The Class 92 was given the go-ahead and when completed it was considered head-and-shoulders above other similar models in the range at the time.

By now, it was the mid-1990s and the former Airfix/Dapol tooling was acquired. An agreement was reached with Sanda Kan in China (which held the tools), and any missing tooling was replaced. Hornby invested a significant sum in tweaking and improving the products ahead of the new models appearing in the range.

NEW BREED

The company's first Warley exhibition appearance provided the opportunity to gain valuable feedback. While not as positive as hoped, the marketing team took the opportunity to launch a new questionnaire asking visitors what new models they'd like to see in the future. The overwhelming responses were a Bulleid rebuilt 'Merchant Navy' 4-6-2 and Stanier streamlined 'Coronation' 4-6-2.

In early 2000, Hornby unveiled the first examples of its new 'OO' gauge Bulleid rebuilt 'Merchant Navy' 4-6-2. Finished as 35028 *Clan Line* in BR lined green with late crests, the model appeared later that year to high acclaim and sold in huge numbers. It was a turning point in the company's fortunes and could not have come at a better time.

Moving production created different challenges, as Simon outlines: "You've got to plan it. It could be a year - if push comes to shove the vendor will always try and find space, but normally you plan. It's one of the reasons our line plan for the following year has to be completed by the end of March."

Looking to the future, the high quality models we've become accustomed to continue to appear apace with plenty of excitement planned in this centenary year. HM

POPULAR PRODUCTS WITH UP TO 50% OFF

TMC The MODEL CENTRE

Item name	RRP	TMC Price
ACC1014-HUO-H Accurascale OO Gauge BR 24.5T HOP24/HUO Coal Hopper - Grey TOPS- Pack H	£59.95	£59.95
ACC1015-HUO-I Accurascale OO Gauge BR 24.5T HOP24/HUO Coal Hopper - Grey TOPS- Pack I	£49.96	£49.96
29503 Bachmann USA On30 Scale #5153 2-6-2T Baldwin Class 10 DCC Sound Fitted	£382.60	£325.21
29504 Bachmann On30 Scale Quartermaster Corps #1 2-6-2T Baldwin 10 Trench Engine DCC Sound Fitted	£382.60	£325.21
30-165 Bachmann OO Gauge The Thanet Flyer Train Set	£179.95	£125.96
30-285 Bachmann OO Gauge The Midlander Express Train Set	£209.95	£146.96
30-430 Bachmann OO Gauge Capital Commuter Train Pack	£209.95	£146.96
31-003A Bachmann OO Gauge LNER Robinson O4 6184 LNER Black (LNER Original)	£139.95	£69.99
31-004A Bachmann OO Gauge LNER Robinson O4 63762 BR Black (Early Emblem) - Weathered	£149.95	£75.00
31-004A Bachmann OO Gauge Robinson O4 63762 BR Black E/Emb Real Coal & Weathered by TMC	£185.95	£115.00
31-041 Bachmann OO Gauge Class 450 4-Car EMU 450127 South West Trains - Weathered	£379.95	£246.97
31-061 Bachmann OO Gauge LNER J72 Tank 68733 BR Black (Early Emblem)	£129.95	£110.46
31-090DS Bachmann OO Gauge GWR 32XX 'Earl' 3206 'Earl of Plymouth' GWR Green - Sound Fitted	£259.95	£220.96
31-119 Bachmann OO Gauge BR Standard 4MT with BR2 Tender 75035 BR Lined Black - Weathered	£164.95	£115.48
31-169 Bachmann OO Gauge L&YR 2-4-2 Tank 50705 BR Lined Black Early Emblem	£114.95	£68.97
31-190 Bachmann OO Gauge LMS 5XP 'Jubilee' with Riveted Tender 45575 'Madras' BR (Ex-LMS) Black	£169.95	£107.22
31-214 Bachmann OO Gauge LMS Patriot Class 45538 'Giggleswick' BR Lined Green E/Emblem	£164.95	£131.96
31-368DS Bachmann OO Gauge Class 03 03026 BR Blue - Sound Fitted	£219.95	£186.96
31-379 Bachmann OO Gauge Class 416 2-EPB 2-Car EMU 5771 BR (SR) Green	£219.95	£110.01
31-380 Bachmann OO Gauge 2EPB 2 Car EMU 6262 BR Blue & Grey Network SouthEast	£209.95	£125.97
31-435 Bachmann OO Gauge MR 1F Tank Enclosed Cab 41726 BR Black (Early Emblem)	£99.95	£84.96
31-460A Bachmann OO Gauge SE&CR C Class 583 SE&CR Lined Green (Original)	£224.95	£191.21
31-460A Bachmann OO Gauge C Class 583 SE&CR Real Coal Glossed & Deluxe Weathered by TMC	£274.95	£241.25
31-461A Bachmann OO Gauge SE&CR C Class 1294 SR Black (Sunshine)	£124.95	£68.74
31-517 Bachmann OO Gauge Class 158 2-Car DMU 158849 BR Regional Railways	£259.95	£220.96
31-517DS Bachmann OO Gauge Class 158 2-Car DMU 158849 BR Regional Railways - Sound Fitted	£349.95	£297.46
31-520 Bachmann OO Gauge Class 159 3-Car DMU 159013 BR Network SouthEast (Revised)	£339.95	£288.96
31-520SF Bachmann OO Gauge Class 159 3-Car DMU 159013 BR Network SouthEast - Sound Fitted	£429.95	£365.46
31-627B Bachmann OO Gauge MR 3F 3520 LMS Black Real Coal & Deluxe Weathering by TMC	£179.95	£119.99
31-656 Bachmann OO Gauge Class 47/0 47256 BR Green Full Yellow Ends (TOPS) Weathered	£169.95	£127.46
31-656 Bachmann OO Gauge Class 47 47256 BR Green Full Yellow Ends (TOPS) Weathered by TMC	£199.96	£159.97
31-664 Bachmann OO Gauge Class 47/0 47050 BR Railfreight - Weathered	£179.95	£143.96
31-664DS Bachmann OO Gauge Class 47/0 47050 BR Railfreight - Sound Fitted - Weathered	£259.96	£207.97
31-691 Bachmann OO Gauge LMS 5MT 'Stanier Mogul' 42969 BR Lined Black (Early Emblem)	£159.95	£103.97
31-728 Bachmann OO Gauge GWR 37XX 'City' 3708 'Killarney' GWR Green (Great Western)	£144.95	£115.96
31-761 Bachmann OO Gauge GNR Class C1 4-4-2 Atlantic 272 GNR Green	£199.96	£159.97
31-981 Bachmann OO Gauge BR Standard Class 3MT Tank 82021 BR Lined Black E/Emblem	£129.95	£97.46
32-027B Bachmann OO Gauge Class 20/0 Disc Headcode D8011 BR Green (Small Yellow Panels)	£139.95	£118.96
32-030DS Bachmann OO Gauge Class 20/0 Headcode Box 20156 BR Railfreight - Sound Fitted	£234.95	£199.71
32-067A Bachmann OO Gauge Class 43 'Warship' D836 'Powerful' BR Blue	£159.95	£95.99
32-119 Bachmann OO Gauge Class 08 08907 DB Schenker	£124.95	£81.22
32-165 Bachmann OO Gauge SE&CR N Class with Flush-Sided Tender 31874 BR Lined Black	£159.95	£103.97
32-178A Bachmann OO Gauge LMS 5MT 'Crab' with Welded Tender 13174 LMS Lined Black (Original)	£144.95	£79.74
32-236 Bachmann OO Gauge LMS 3F 'Jinty' Tank 47619 BR Black (British Railways)	£109.95	£93.46
32-279A Bachmann OO Gauge LNER K3 with LNER Standard Flush-Sided Tender 1304 LNER Lined Black	£139.95	£83.99
32-281 Bachmann OO Gauge LNER K3 with LNER Group Standard Stepped Tender 61862 BR Lined Black	£139.95	£83.99
32-376A Bachmann OO Gauge Class 37/4 37422 'Robert F. Fairlie' BR Regional Railways - Weathered	£169.95	£110.47
32-392RJ Bachmann OO Gauge Class 37/5 37685 BR InterCity	£169.95	£135.96
32-392RJDS Bachmann OO Gauge Class37/5 37685 BR InterCity (DCC Sound)	£259.95	£207.96

31-004A Bachmann OO Gauge LNER Robinson O4 63762 BR Black (Early Emblem) - Weathered

£75.00 Regular Price ~~£149.95~~

In stock

31-041 Bachmann OO Gauge Class 450 4-Car EMU 450127 South West Trains - Weathered

£246.97 Regular Price ~~£379.96~~

In stock

31-190 Bachmann OO Gauge LMS 5XP 'Jubilee' with Riveted Tender 45575 'Madras' BR (Ex-LMS) Black (British Railways)

£107.22 Regular Price ~~£169.96~~

In stock

31-368DS Bachmann OO Gauge Class 03 03026 BR Blue - Sound Fitted

£186.96 Regular Price ~~£219.95~~

In stock

31-379 Bachmann OO Gauge Class 416 2-EPB 2-Car EMU 5771 BR (SR) Green

£110.00 Regular Price ~~£219.95~~

In stock

31-380 Bachmann OO Gauge 2EPB 2 Car EMU 6262 BR Blue & Grey Network SouthEast

£125.98 Regular Price ~~£209.97~~

In stock

www.themodelcentre.com

Item name	RRP	TMC Price
370-185 Graham Farish N Gauge A Day at the Races Train Set	£199.95	£169.96
370-375 Graham Farish N Gauge Avro Vulcan XH558 Collectors Pack	£189.95	£161.46
370-425 Graham Farish N Gauge Midland Pullman Train Pack	£399.95	£319.95
370-430 Graham Farish N Gauge Capital Connection Train Pack	£209.95	£178.46
371-032A Graham Farish N Gauge Class 20/0 Disc Headcode 20048 BR Blue	£124.95	£106.21
371-034A Graham Farish N Gauge Class 20/0 Headcode Box 20156 BR Railfreight (Red Stripe)	£124.95	£106.21
371-063 Graham Farish N Gauge Class 03 D2383 BR Green (Wasp Stripes) - Weathered	£99.95	£84.96
371-470 Graham Farish N Gauge Class 37/0 Split Headcode 37068 Grainflow BR Railfreight Distribution	£134.95	£114.71
371-641 Graham Farish N Gauge Class 70 With Air Intake Modifications 70805 Colas Rail Freight	£159.95	£135.96
371-641 Graham Farish N Gauge Class 70 With Air Intake Mods 70805 Colas Rail Freight TMC Weathered	£189.95	£165.99
371-651A Graham Farish N Gauge Class 57/0 57008 'Freightliner Explorer' Freightliner Green - Weathered	£154.95	£94.22
371-660 Graham Farish N Gauge Class 57/6 57603 'Tintagel Castle' GWR Green (FirstGroup)	£134.95	£107.96
371-740 Graham Farish N Gauge Midland Pullman 6 Car Unit Nanking Blue	£269.95	£242.95
371-985A Graham Farish N Gauge GWR 64XX Pannier Tank 6424 GWR Green (GWR)	£109.95	£93.46
371-985A Graham Farish N Gauge GWR 64XX Pannier Tank 6424 GWR Green Real Coal & TMC Weathered	£149.95	£133.49
371-986A Graham Farish N Gauge GWR 64XX Pannier Tank 6422 BR Black (Early Emblem)	£109.95	£93.46
371-988 Graham Farish N Gauge GWR 64XX Pannier Tank 6419 BR Lined Green (Late Crest) - Weathered	£119.95	£101.96
372-030 Graham Farish N Gauge GWR 4073 ‘Castle’ 5044 'Earl of Dunraven' GWR Green (Shirtbutton)	£144.95	£90.97
372-032 Graham Farish N Gauge GWR 4073 ‘Castle’ 5070 'Sir Daniel Gooch' BR Lined Green (Late Crest)	£144.95	£123.21
372-181A Graham Farish N Gauge LMS Princess Coronation 46221 'Queen Elizabeth' BR Green Early	£184.95	£157.21
372-210A Graham Farish N Gauge LMS 3F 'Jinty' Tank 7309 LMS Black (Original)	£99.95	£84.96
372-211A Graham Farish N Gauge LMS 3F 'Jinty' Tank 47314 BR Black (Early Emblem)	£99.95	£84.96
372-212A Graham Farish N Gauge LMS 3F 'Jinty' Tank 47500 BR Black (Late Crest)	£99.95	£84.96
372-248 Graham Farish N Gauge Class 47/4 47550 'University of Dundee' BR InterCity (Mainline)	£144.95	£123.21
372-312 Graham Farish N Gauge Merchant Navy Class 35028 'Clan Line' BR Green L/Crest	£169.95	£127.46
372-313 Graham Farish N Gauge Merchant Navy Class 35021 'New Zealand Line' BR Malachite	£169.95	£127.46
372-331 Graham Farish N Gauge BR Standard 3MT Tank 82020 BR Green (Late Crest)	£124.95	£106.21
372-425A Graham Farish N Gauge WD Austerity 90441 BR Black (Early Emblem) - Weathered	£174.95	£148.71
372-429 Graham Farish N Gauge WD Austerity 79250 'Major-General McMullen' LMR Lined Blue	£174.95	£148.71
372-629 Graham Farish N Gauge LMS Ivatt 2MT 46460 BR Lined Black (Early Emblem) - Weathered	£144.95	£94.22
372-775 Graham Farish N Gauge SE&CR C Class 271 SE&CR Green Real Coal & Weathered by TMC	£189.95	£167.49
372-776 Graham Farish N Gauge SE&CR C Class 1294 SR Black (Sunshine)	£139.95	£118.96
372-777 Graham Farish N Gauge SE&CR C Class 31227 BR Black Early Emblem	£139.95	£118.96
372-976A Graham Farish N Gauge Class 24/0 D5031 BR Green (Late Crest)	£129.95	£110.46
372-980 Graham Farish N Gauge Class 24/0 97201 'Experiment' BR RTC (Original) - Weathered	£139.95	£90.97
373-975B Graham Farish N Gauge POA Mineral Wagon 'Tiger' Grey - Weathered	£19.95	£11.97
379-460 Graham Farish N Gauge Left Hand Standard Point	£9.95	£8.46
379-461 Graham Farish N Gauge Right Hand Standard Point	£9.95	£8.46
2730 Heljan OO Gauge Class 27 no.27001 BR Green Full Yellow Ends (V3) with Deluxe Weathering by TMC	£199.95	£192.50
2731 Heljan OO Gauge Class 27 D5369 BR green with small yellow panels (V3)	£139.95	£125.96
2732 Heljan OO Gauge Class 27 no.5357 BR Blue FYE (V3) Weathered by TMC	£169.95	£162.95
R1234M Hornby OO Gauge Hogwarts Express' Train Set	£199.99	£179.99
R1269 Hornby OO Gauge Stay at Home Hamper	£199.99	£179.99
R3171 Hornby OO Gauge Railroad LNER, P2 Class, 2-8-2, 2001 ‘Cock 'O The North’ - Era 3	£104.99	£94.49
R3399 Hornby OO Gauge Train Packs EWS, Class 67 Freight Train Pack - Era 9	£241.99	£131.90
R3410 Hornby OO Gauge BR, 6000 'King' Class, 4-6-0, 6025 ‘King Henry III’ - Era 4	£182.99	£123.82
R3413 Hornby OO Gauge BR, S15 Class, 4-6-0, 30831 - Era 4	£154.99	£85.18
R3414 Hornby OO Gauge LNER, J15 Class, 0-6-0, 5444 - Era 3	£127.99	£69.52
R3415 Hornby OO Gauge BR, J15 Class, 0-6-0, 65477 - Era 4	£127.99	£69.52
R3424 Hornby OO Gauge LNER Q6 Class LOCO '3418'	£154.99	£123.99
R3452 Hornby OO Gauge BR, 6800 'Grange' Class, 4-6-0, 6825 ‘Llanvair Grange’ - Era 5	£155.99	£95.24
R3522 Hornby OO Gauge LNER, A4 Class, 4-6-2, 60026 ‘Miles Beevor’ - Era 3	£174.99	£157.49
R3643 Hornby OO Gauge BR, Standard 7 'Britannia' Class, 4-6-2, 70046 'ANZAC - Era 5	£179.99	£161.99
R3643 Hornby OO Gauge BR Standard Class 7 Britannia 70046 ANZAC Real Coal & Weathered by TMC	£222.49	£204.49
R3659 Hornby OO Gauge Colas Rail Freight Class 67 67027 Charlotte Parts Fitted & Weathered by TMC	£205.00	£151.99
R3679 Hornby OO Gauge Port of London Authority, Peckett W4 Class, 0-4-0ST, No. 74 - Era 3/4	£99.99	£89.99

370-185 Graham Farish N Gauge A Day at the Races Train Set

£169.96 Regular Price ~~£199.96~~

In stock

370-430 Graham Farish N Gauge Capital Connection Train Pack

£178.45 Regular Price ~~£209.95~~

In stock

371-032A Graham Farish N Gauge Class 20/0 Disc Headcode 20048 BR Blue

£106.21 Regular Price ~~£124.96~~

In stock

372-210A Graham Farish N Gauge LMS 3F 'Jinty' Tank 7309 LMS Black (Original)

£84.96 Regular Price ~~£99.95~~

In stock

R3171 Hornby OO Gauge Railroad LNER "Cock 'O The North" Class P2

£94.49 Regular Price ~~£104.99~~

In stock

R3399 Hornby OO Gauge EWS Freight Train Pack - Limited Edition

£131.90 Regular Price ~~£241.99~~

In stock

R3522 Hornby OO Gauge BR 4-6-2 'Miles Beevor' '60026' A4 Class Early BR

£157.49 Regular Price ~~£175.00~~

In stock

www.themodelcentre.com t. 01947 899125

Hill Farm, Beck Hole, Whitby, YO22 5LF

HORNBY magazine

Best LAYOUTS OF ALL TIME

More than 470 layouts have graced the pages of *Hornby Magazine* since our first issue in March 2007. For this special feature we went back into the archives to pick an outstanding crop of 10, the first of which we showed in HM4. Feast your eyes on a band of inspirational model railways built by supremely talented modellers.

PHOTOGRAPHY, TREVOR JONES AND MIKE WILD.

Bournemouth West models the station in full and features elaborately detailed scratchbuilt buildings, weathered locomotives and rolling stock and a full array of lattice post signals. A Bulleid 'West Country' 4-6-2 waits to depart as the driver of BR '4MT' 2-6-0 76005 draws the three-coach stopper out of the station.

Bournemouth West

The impressive station buildings are entirely scratchbuilt for the layout.

No model with a Somerset and Dorset connection would be complete without a Fowler '7F' 2-8-0. 53808 departs with a passenger working for Bath Green Park while an Adams 'B4' 0-4-0T shunts a PMV.

THE SOUTHERN TERMINUS of the famous Somerset & Dorset route is the setting for this outstanding 'OO' gauge exhibition layout. It was built by the South Coast Model Railway Development Group and is a regular on the circuit with appearances including the Great Electric Train Show in 2019 where it was awarded Best Scenic layout as well as winning the new *Hornby Magazine* Model Railway Award for Layout of the Year voted for by magazine readers.

The layout models the terminus and its approaches and features scale length trains hauled by an appropriate selection of ex-Southern Railway motive power alongside the relatively new order of the BR Standards. Being the terminus of the S&D, it also sees ex-LMS locomotives and coaching stock arrive including the Fowler '7F' 2-8-0s built specifically for the challenging route to Bath Green Park.

Bournemouth West uses Digital Command Control for train operation and includes sound decoders and smoke generators. There are also shunting locomotives equipped with digitally activated couplings which leads to hands-free operation of the goods yard alongside the station.

This is an outstanding layout delivered to the highest standard throughout by its owning group and there was no question that it should be part of our top ten of all time.

Read the full feature in HM146 or visit *www.keymodelworld.com* to see more on Bournemouth West in the Layout Features section.

THE DETAILS	
Owner:	South Coast Model Railway Development Group
Scale:	4mm:1ft
Gauge:	'OO', 16.5mm
Size:	33ft x 15ft
Period:	1959-1962
Region:	Southern
Control:	DCC
Featured:	HM146

Drummond 'M7' 30053 steams away from Bournemouth West with a push-pull working as Drummond '700' 30695 approaches with a goods. The signalbox is scratchbuilt and even features point rodding outside.

Shenston Road

WE HAD LONG WANTED to feature Greg Brookes' impressive 'EM' gauge 1970s period layout in *Hornby Magazine* and in January this year we were on the road and heading across the country eagerly looking forward to pointing our cameras at this magnificent home layout.

Shenston Road is the result of 18 years of dedication by career railwayman Greg and sees the four-sided layout housed in a purpose-built building allowing him to capture his memories of the late 1960s and early 1970s in the Midlands. It measures 27ft x 8ft 6in and uses analogue control to operate the continuous run main line, steelworks branch and associated sidings. Cleverly, it has its storage yard underneath the station which leads to a gradient beneath the steelworks to take trains up to the station. In front of the steelworks is a scenic gradient where the main line rolls through a pair of passing loops to access the tunnel for the return to the lower storage yard.

Everywhere you look, detail abounds and one of the outstanding qualities of Shenston Road is Greg's ability to weather locomotives, rolling stock, vehicles, buildings and scenery to the same standard. Everything looks as one and nothing stands out or jars – it all goes together like a period picture from the era.

An English Electric Type 4 rumbles through the centre road at Shenston Road with a mixed goods. Detail is everywhere on this stunning 'EM' gauge layout.

Above: **The steelworks and exchange sidings stand above the main line as it descends back towards the lower level storage yard. Here a Class 35 'Hymek' is ready to depart with an empty rake of 21ton hoppers while below a pair of Class 20s pause in the goods loop with a cut of 24.5ton HUO hoppers.**

Right: **Class 37/0 6972 enters the platform loop with a rake of BR 21ton mineral wagons, recreating a classic scene from 1970 when BR blue was becoming the norm and the 'D' prefix had been removed from locomotives.**

Below right: **It's not just the railway that has been detailed – even the street scenes gain Greg's full attention.**

Mention of the rolling stock can't pass without talking about the personality Greg injects into his locomotives. Each is weathered from period images of the real locomotives to introduce the real stains, scrapes and bumps that locomotives sustained in daily service.

Read the full feature in HM154 or visit *www.keymodelworld.com* to see more on Shenston Road, including video, in the Layout Features section.

THE DETAILS	
Owner:	Greg Brookes
Scale:	4mm:1ft
Gauge:	'EM', 18mm
Size:	27ft x 8ft 6in
Period:	1968-1971
Region:	Western/Midland
Control:	Analogue
Featured:	HM154

Vale of Oxbury

The Blue Pullman DEMU brings a splash of colour to the countryside as it bursts out of the tunnel to pass a 'Grange' at the head of a milk train. On the branch a Pressed Steel Class 121 DMU is arriving to deliver passengers for the next through train.

IMAGINE VENTURING into the Oxfordshire countryside in search of the perfect place to watch trains go by. As you cross the brow of a hill and drop down into the valley below, a line of cottages appears on the left followed by a railway bridge. This is Vale of Oxbury – a small slice of the Western Region modelled in 'N' gauge by Carl Woodwards.

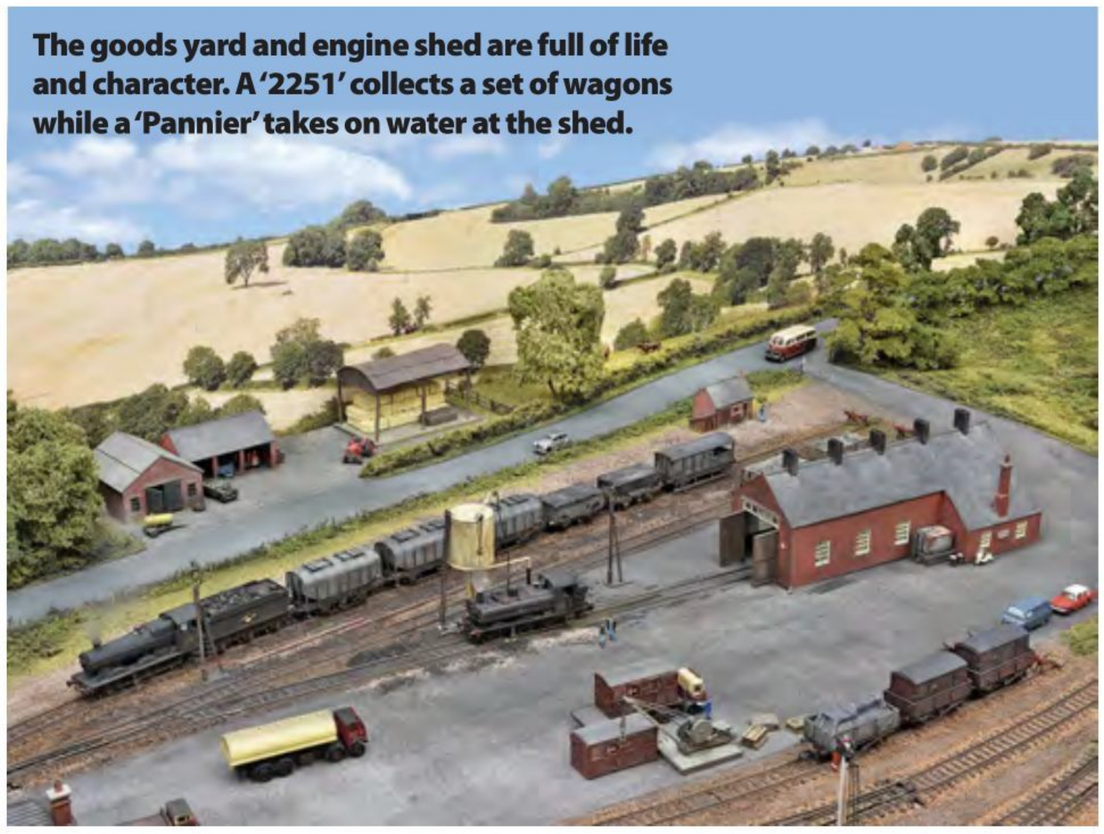
Inspiration for this clever 'N' gauge layout, which combines depth and a relatively compact design, came from Oxfordshire and the Cotswolds while the huge scenery of Pendon's Vale Scene also played its hand in directing Carl's vision in 2mm scale. Carl commented: "I set out to create a layout that would tell a believable story of a Western Region junction station. A fine summer's day where the powerful and noisy trains passed through, leading to peaceful periods when you could appreciate your surroundings."

He achieved that superbly. Vale of Oxbury is a modest 12ft x 4ft, but it packs in space for a main line run, a large storage yard to the rear, scale length trains, a goods yard, branch line, station and dairy. Moreover, the use of a curved backscene increases the depth of the layout in a natural way as there are no hard edges to the corners.

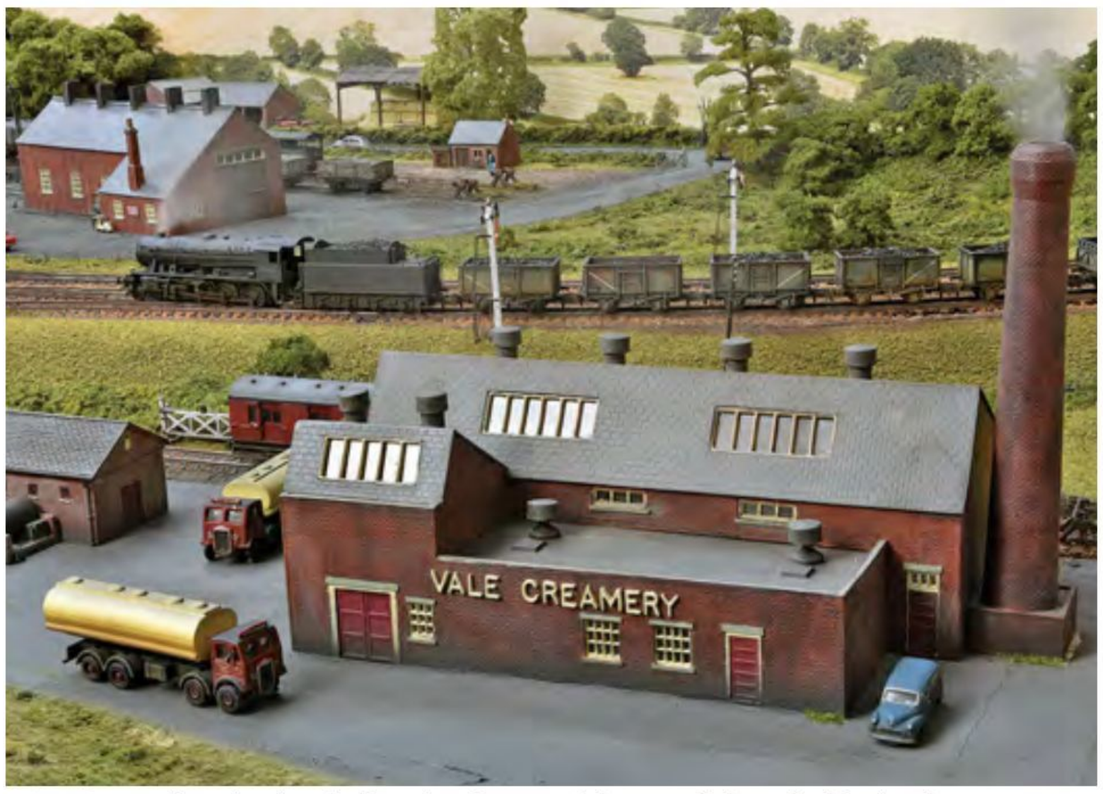
Composition was a big part of the layout's development and the final scene is a marvel to behold. Vale of Oxbury has been a regular on the exhibition circuit and continues to be to this day.

THE DETAILS	
Owner:	Carl Woodwards
Scale:	2mm:1ft
Gauge:	'N', 9mm
Size:	12ft x 4ft
Period:	1960-1965
Region:	Western
Control:	DCC, NCE Procab
Featured:	HM146

Read the full feature in HM133 or visit *www.keymodelworld.com* to see more on Vale of Oxbury in the Layout Features section.



The goods yard and engine shed are full of life and character. A '2251' collects a set of wagons while a 'Pannier' takes on water at the shed.



A 'WD' 2-8-0 heads a loaded coal train out of the goods loop behind Vale Creamery.

Dartmoor

OUR top 10 wouldn't be complete without one of the stunning 'EM' gauge models from Pendon Museum. It was a close call between Dartmoor and the Vale Scene, but Roye England's original masterpiece clinched it for us as a signature of the era it was built in and the museum's volunteer's ability to keep it running.

Construction of Dartmoor started 65 years ago in 1955 with the delivery of the imposing 13ft long viaduct by Roye's modelling friend Guy Williams. The viaduct alone consists of more than 2,500 pieces and it still looks as fresh today as when it was first built.

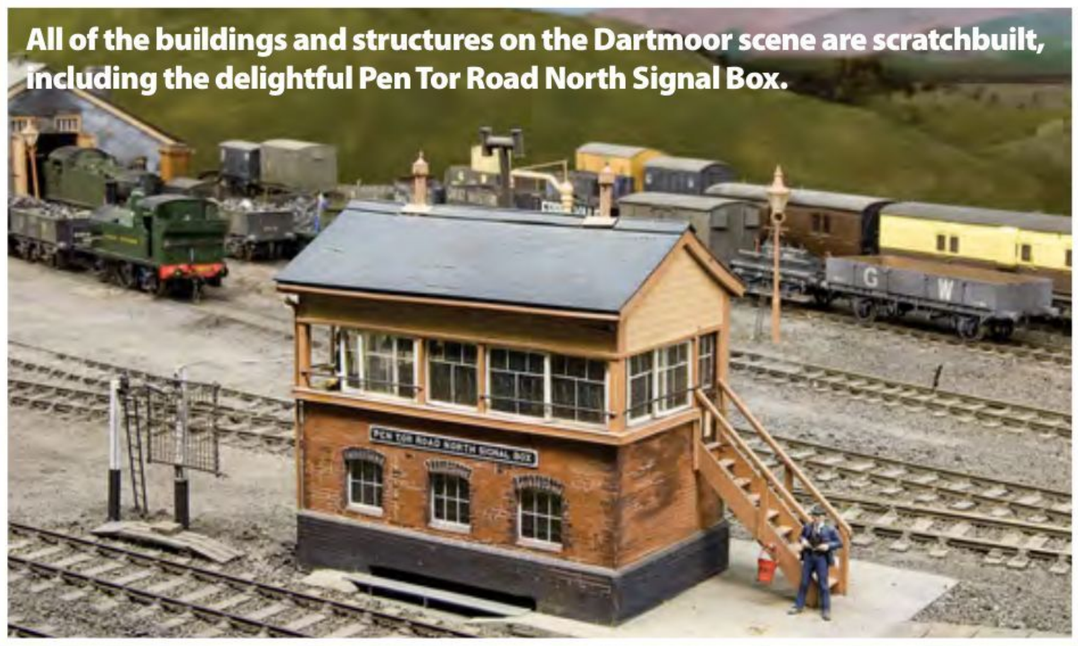
Dartmoor isn't an exact replica, but grew around the viaduct to include the moorland scene together with Pen Tor Road station which took inspiration from Ivybridge and Yelverton alongside the engine shed which is based on that at Launceston.

The rolling stock which operates on Dartmoor dates back to the 1950s and includes a mixture of goods and passenger formations. A signature train is the attractive 80 wagon coal train hauled by a GWR '28XX' 2-8-0 which looks splendid working its way across the viaduct.

If you have never been to Pendon then you really should once it is able to reopen. It's a brilliant and inspirational day out for any modellers which you will never forget.

Read the full feature in HM22 or visit *www.keymodelworld.com* to see more on Dartmoor in the Layout Features section.

THE DETAILS	
Owner:	Pendon Museum
Scale:	4mm:1ft
Gauge:	'EM', 18.2mm
Size:	18ft x 10ft
Period:	1923-1939
Region:	Great Western Railway
Control:	Analogue
Featured:	HM22



All of the buildings and structures on the Dartmoor scene are scratchbuilt, including the delightful Pen Tor Road North Signal Box.

A GWR '5101' 2-6-2T eases its parcels train into Pen Tor Road. The layout is set in the 1923-1939 period prior to the Second World War.

A GWR '28XX' 2-8-0 leads the 80 wagon coal train across the 1955 built 13ft long viaduct which forms the signature structure on Pendon's Dartmoor scene.

Over Peover

The upper and lower levels intersect as the lower exits the off-scene storage yard. *Deltic* is approaching Over Peover station as a BR '9F' 2-10-0 exits the goods yard with a fuel oil train.

Peppercorn 'A1' 4-6-2 60135 *Madge Wildfire* thunders through Over Peover station as a Gresley 'A4' races along the high level main line behind. These two trains are on the same line, just a full circuit apart.

Gresley 'V2' 60964 *The Durham Light Infantry* starts out from Castle Cross with a Travelling Post Office working for its venture around Over Peover's 500ft long main line circuit.

At Castle Cross station, John's version of King's Cross, 'A4' 60030 *Golden Fleece* poses at the head of a rake of Pullman cars.

OVER PEOVER is a layout like no other. As you enter the room in which this giant 120ft x 34ft railway sits, the imagination of its creator is clear. There is railway everywhere, and it's all connected together to create a fantastic system where trains can arrive and depart from a multi-track terminus, run on the main line, stop at stations, be held in loops, cross bridges and viaducts, shunt the yard and move on and off shed for servicing and maintenance.

We first visited John Ryan's Over Peover in March 2019 when it was in London North Eastern Railway mode, but kindly he invited us back in August that year to capture the layout with his British Railways stock out and running. So vast is John's armoury of 'O' gauge locomotives and rolling stock that he can cover a huge variety of classes for both eras including 'A1', 'A2', 'A3' and 'A4' 4-6-2s, the 'W1' 4-6-4, 'B1' and 'B17' 4-6-0s, 'V2' 2-6-2s, 'Q6' 0-8-0s, 'O1' and 'O4' 2-8-0s together with tank engines, BR Standards for the later period and a handful of diesels. Moreover, the rolling stock which is available to run with these handsome machines is sublime and include streamlined 'Coronation' sets, Pullmans, Gresley teak stock and more besides.

The layout itself is impressive not just in size but in the level of detail which has been invested in it. Building a layout on this scale it would be easy to leave areas blank while over-populating others, but Over Peover has that right balance – busy areas where they should be and quiet tranquil areas where the railway runs through the countryside. A brilliant layout to behold on all levels.

Read the full feature in HM143 or visit *www.keymodelworld.com* to see more on Over Peover in the Layout Features section.

THE DETAILS	
Owner:	John Ryan
Scale:	7mm:1ft
Gauge:	'O', 32mm
Size:	120ft x 34ft
Period:	1936-1938 or 1950-1960
Region:	Eastern
Control:	NCE digital or analogue
Featured:	HM143

Bath Green Park

A BR '4MT' 2-6-0 and '3MT' 2-6-2T pass on the river bridge outside Bath Green Park station. The area was extensively researched to model it to the highest standard.

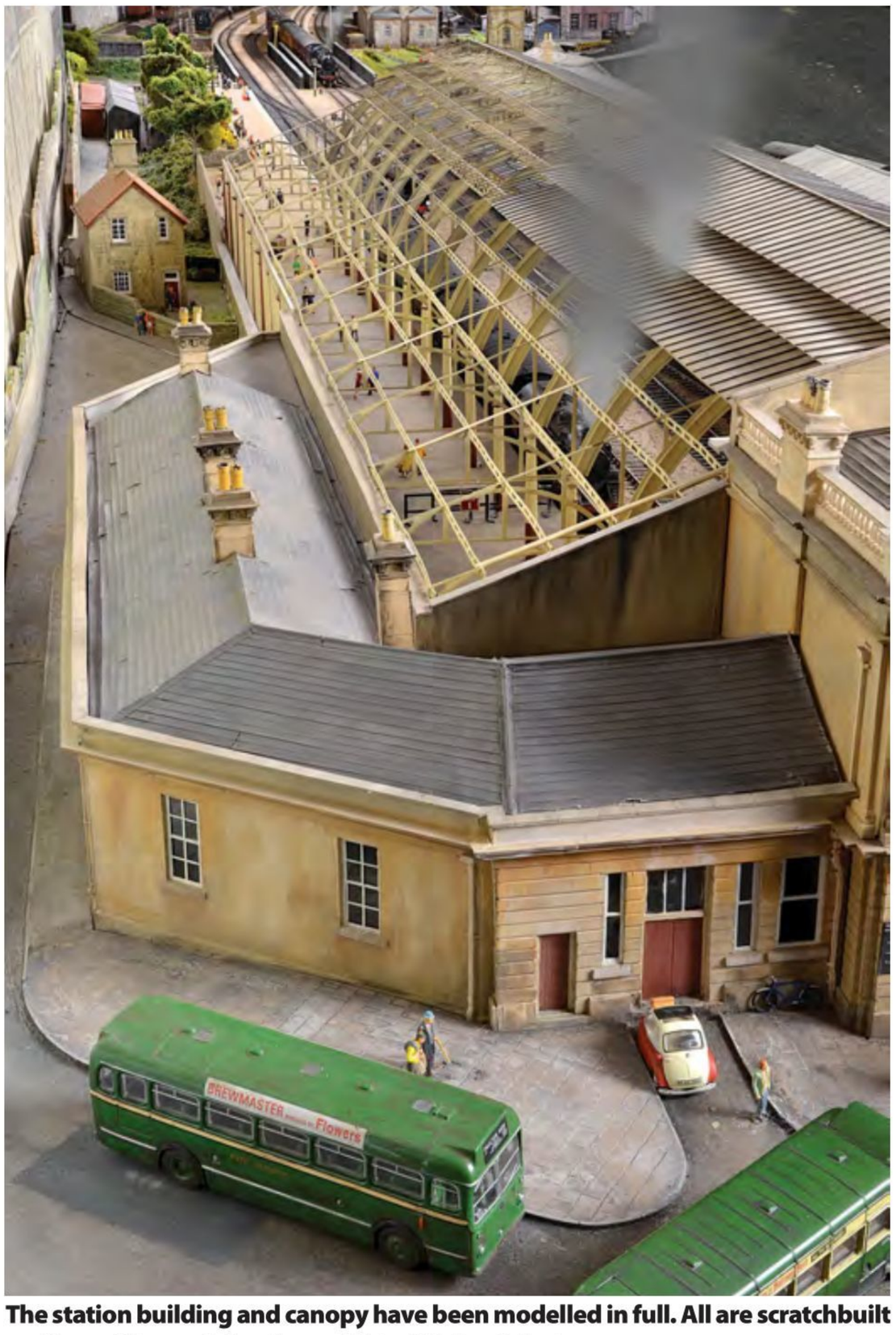
THE Somerset and Dorset Railway has a legendary status amongst railway enthusiasts. Stretching from Bath Green Park station in the north to Bournemouth West at its southern tip, it was a route of challenges which provided a perfect cross-country route for holiday traffic. One of its great appeals was the opportunity to see locomotives and rolling stock from all four surrounding BR regions – the Western, Southern, Midland and Eastern – as inter-regional traffic brought 'foreign' motive power to the area.

The route was steeply graded too, which meant double-heading was common – and it wasn't unusual to see a Midland '2P' 4-4-0 piloting a Southern 'West Country' 4-6-2 at the head of a heavy train. Freight traffic was consistent too in its early years, so much so that there was a specially built fleet of 10 Fowler '7F' 2-8-0s for the route.

The terminus at Bath Green Park was striking. The roadside building was of classic stone construction while an arched overall roof covered the platforms and stabling sidings in the centre. It was this station

THE DETAILS	
Owner:	Taunton Model Railway Group
Scale:	4mm:1ft
Gauge:	'OO', 16.5mm
Size:	70ft x 12ft
Period:	1948-1966
Region:	Midland
Control:	Analogue
Featured:	HM4/HM75

A Stanier 'Jubilee' approaches Bath Green Park with an arrival from the north while in the yard a Johnson '1P' 0-4-4T stands forlorn at the shed following withdrawal.



The station building and canopy have been modelled in full. All are scratchbuilt replicas of the real structure which still stands today.

The stone architecture of Bath is shown to good effect on the station frontage.

which inspired Taunton Model Railway Group to develop its huge 70ft long model of the terminus, its approaches and depot for exhibition and home use. In the club rooms it is connected to the group's continuous run layout Tamerig Central while at shows the final approaches and station stand independently with their own bespoke storage yard.

Like all of the layouts here, Bath Green Park features incredible attention to detail, custom made parts and scratchbuilt and accurate track to create the famous station in miniature. When the opportunity presents you should see this layout for yourself – it is superb.

Read the full feature in HM75 or visit *www.keymodelworld.com* to see more on Bath Green Park in the Layout Features section.

Barmouth Junction

THE NAME of Geoff Taylor's home-based layout belies its reality as it is far from just a model of a single station on the Cambrian Coast Line. This is a railway system which takes trains through three other locations and includes options for routes to send trains to their ultimate destination.

Construction started in the early 2000s and the complete trackplan comprises Barmouth Junction, Penmaenpool, Dolgellau Goods and Gwynant bridge. The associated trackwork means trains can leave Barmouth heading north for Barmouth and south to Ruabon, via Penmaenpool, or Machynlleth.

Geoff Taylor is well known for his model building kits and those on his own layout are no exception. Every single structure is handbuilt from scratch to recreate the real buildings along the line. It's an incredible personal work backed up by superbly researched locomotives and train formations and a creative view to link all the sections together by hidden track. A brilliant layout in every respect.

Read the full feature in HM144/HM145 or visit *www.keymodelworld.com* to see more on Barmouth Junction in the Layout Features section.

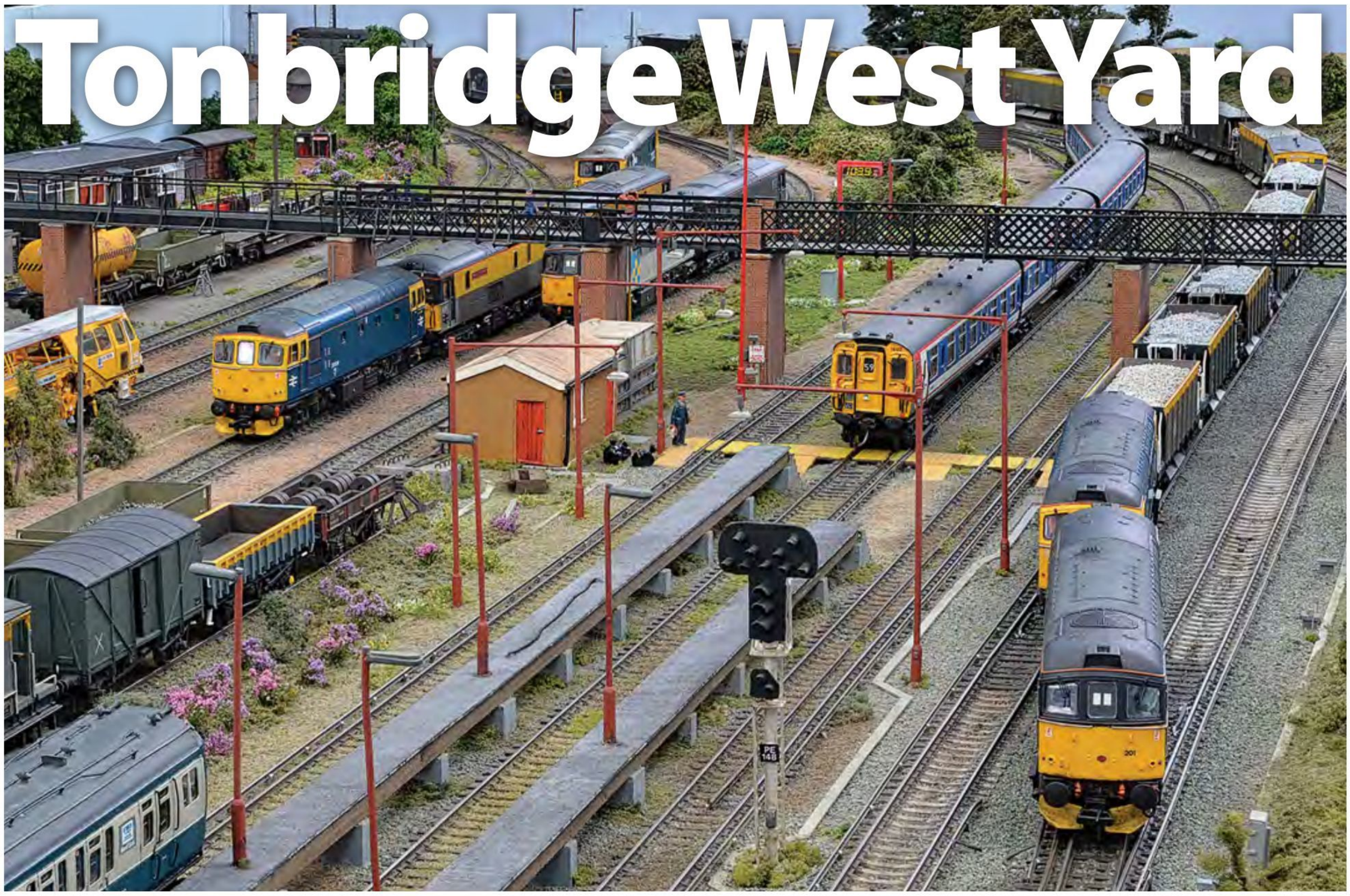
THE DETAILS	
Owner:	Geoff Taylor
Scale:	4mm:1ft
Gauge:	'OO', 16.5mm
Size:	25ft x 15ft
Period:	1948-1965
Region:	Western
Control:	DCC, Lenz
Featured:	HM144/HM145

Left: **The riverside location of Penmaenpool is a magical vista and, like the rest of the layout, features scratchbuilt buildings throughout. GWR '58XX' 0-4-2T 5801, carrying a hybrid GWR/BR livery, departs with an autocoach for Barmouth Junction.**

At Dolgellau Goods a '64XX' 0-6-0PT chunters past the yard with a single autocoach on its way to Penmaenpool and Barmouth Junction.

A Collett 'Manor' 4-6-0 draws into Barmouth Junction with a mixed goods for Machynlleth while an Ivatt '2MT' 2-6-0 waits to reverse back to Barmouth after using the triangle to turn.

Tonbridge West Yard



Above: **A pair of Class 33s use the crossover on the main line as a refurbished 4-CEP enters the EMU carriage sidings.**

PAUL WADE'S inspirational 'OO' gauge Southern electric layout first hit the scene in the 1990s and it was an instant hit with its combination of multiple units (a rarity at that time) together with a vast array of engineering stock. In 2015 Paul decided to revive the layout for a brief comeback tour on the exhibition circuit which included appearances at the DEMU Showcase event that year as well as at the Great Electric Train Show.

Tonbridge West Yard recalls an era when BR blue and grey was giving way to the new sector colour of Network SouthEast, 'Dutch' and 'Triple Grey'. The old livery was still prevalent, and the portrayal of that changing tide is a huge part of its appeal.

Some selective compression has been employed to model West Yard within the confines of a 'OO' gauge continuous run layout, but it does it so well. For fans of the early 1990s, multiple units and engineering traffic this is pure nostalgia in miniature.

Read the full feature in HM103 or visit *www.keymodelworld.com* to see more on Tonbridge West Yard in the Layout Features section.

THE DETAILS	
Owner:	Paul Wade
Scale:	4mm:1ft
Gauge:	'OO', 16.5mm
Size:	18ft x 10ft
Period:	Early 1990s
Region:	Southern
Control:	Analogue
Featured:	HM103

Above: **Tonbridge West Yard has been a huge inspiration to modern image modellers over the years through its impressive array of multiple units, engineering stock and detail. A Class 73 draws out of the yard with a rake of Satlink wagons while multiple units stable in the background in the carriage sidings.**

Right: **A pair of kit built 4-VEP EMUs clatter over the pointwork as they pass the yard entrance. In the background a Class 08 is engaged in shunting engineering stock.**

Thornbury Hill

THIS wonderful 'OO' gauge Southern Region layout goes back to a time when the only way to model the Southern with a realistic fleet was to turn to kits. Thornbury Hill first saw the light of day almost 50 years ago in the 1970s when it was created by the Burgess Hill Model Railway Club. Since then it has changed owners and now has its own dedicated group.

It models a fictitious location on the Brighton Main Line in South London. It consists of a through station with fast lines and loops for stopping trains, bay platforms, a busy goods yard, main line running and turntable storage yards at each end to feed the scenic section.

It was originally set in the 1930s before electrification of the Brighton line in 1933, but in 1989, when it changed owners, third-rail was added to move it forward to 1962 when green multiple units threaded between steam-hauled expresses and goods trains on the busy network of lines radiating to the south of the capital.

Read the full feature in HM63 or visit *www.keymodelworld.com* to see more on Thornbury Hill in the Layout Features section.

THE DETAILS	
Owner:	Thornbury Hill Model Railway Group
Scale:	4mm:1ft
Gauge:	'OO', 16.5mm
Size:	40ft x 2ft 6in
Period:	1962
Region:	Southern
Control:	Analogue
Featured:	HM63

The stock roster of Thornbury Hill features a number of rare items from the early years of BR including Bulleid Raworth electric 20003 and the 4-DD double deck EMU.

Bulleid 'Battle of Britain' 4-6-2 34062 *17 Squadron* charges through Thornbury Hill with an express. This layout was started in the 1970s and is now 50 years old.

HORNBY MAGAZINE'S BEST LAYOUTS OF ALL TIME

A London bound 2-HAL has just arrived at the station to be overtaken by a BR '4MT' at the head of a parcels working.

Oulton TMD

REGULAR exhibition goers can't fail to have seen Allan Cromarty's feast of modern image modelling – Oulton TMD. This captivating layout always draws a crowd and has been a prolific part of the exhibition scene and has grown several times over the years to reach its current arrangement.

Included within the layout are a terminus station, transfer yard, refuelling point and Traction Maintenance Depot, ballast yard, oil terminal and cement works. Better still Allan and his team keep a regular flow of train movements at all times when the layout is in the public domain allied to the eye-catching collection of cameo scenes which can be seen all around.

The early 1990s pre-privatisation theme is captured superbly and models an era which is gaining a greater following as it increases in its nostalgic value.

With so many quality modern traction layouts to choose from it was always going to be a difficult choice, but Oulton TMD stood out for all of us from the first moment we started working on this feature.

Read the full feature in HM107 or visit *www.keymodelworld.com* to see more on Oulton TMD in the Layout Features section.

THE DETAILS	
Owner:	Allan Cromarty
Scale:	4mm:1ft
Gauge:	'OO', 16.5mm
Size:	27ft x 3ft, scenic section
Period:	1990s
Region:	Midlands
Control:	DCC, Lenz
Featured:	HM107

Above left: **A Class 37 draws a rake of stone hoppers out of the sidings and passes a Class 14 engaged on shunting duties at the cement works.**

Left: **The 1990s are rekindled by Oulton TMD with liveries including Rail Express Systems, BR blue, Regional Railways, triple grey and more besides. It's a busy location full of eye catching detail.**

Night draws in over Oulton TMD with a trio of Class 47s in attendance. The lighting of the layout adds to its appeal and has been enhanced for this night scene.

KJB MODELS

Please visit our website

www.kjbmodels.co.uk

WE NOW STOCK OVER 2000 VEHICLES IN N & 00 GAUGE. ALL AT DISCOUNTED PRICES.

OXFORD

GOOD QUALITY PRE-OWNED MODEL RAILWAY ITEMS ALWAYS WANTED

DO YOU HAVE A MODEL RAILWAY COLLECTION TO SELL?

FIRST...
Send your list of items via post or email

THEN...
We will do a professional evaluation of your collection

NOW...
Send your items or we will travel to collect

FINALLY.
We can pay by Bank Transfer or cash

Visit us on **FACEBOOK**

Tel: **07542 710005**

Email: **enq@kjbmodels.co.uk**

PayPal VISA MasterCard

METCALFE

Card Construction Kits

BOOKING HALL
00 CODE PO320 / N CODE PN920

DOUBLE TRACK ENGINE SHED
RED BRICK 00 CODE PO313 / N CODE PN913
STONE 00 CODE PO337 / N CODE PN937

SIGNAL BOX
00 CODE PO233
N CODE PN133

SERVICE STATION
00 CODE PO281 / N CODE PN181

PARISH CHURCH
00 CODE PO226
N CODE PN926

SMALL FACTORY
00 CODE PO283 / N CODE PN183

GARDENER'S COTTAGE
00 CODE PO258 / N CODE PN158

VILLAGE SHOP & CAFE
00 CODE PO254 / N CODE PN154

VILLAGE SCHOOL
00 CODE PO253 / N CODE PN153

LOW RELIEF TERRACED HOUSES
RED BRICK 00 CODE PO274 / N CODE PN174
STONE CODE PO275 / N CODE PN175

TERRACED HOUSES
RED BRICK 00 CODE PO261 / N CODE PN103
STONE CODE PO262 / N CODE PN104

GREENHOUSE
00 CODE PO514
N CODE PN814

Join our community on social media!
Facebook: **Metcalfe Models Official Group**
Twitter: **@MetcalfeKits**
Instagram: **@MetcalfeModelsandToys**

facebook | join our group +

METCALFE

Card Construction Kits

Missing a Metcalfe?

We are really sorry our kits are in short supply at the moment.

We worked really hard to make sure you had enough Metcalfe kits to keep you going before lockdown. Unfortunately, we experienced a bit of panic buying, which means we are now really low on stock. (It's OK, we understand. We just wanted everyone to have enough to do!). This means it's going to take a while before we'll have enough stock to start selling again.

As we slowly emerge from lockdown, we also have to make sure our factory is safe for everyone coming back to work.

So please bear with us, we will be back soon. Thank you.

METCALFE

Card Construction Kits

SADLY, OUR ONLINE SHOP IS CLOSED BUT YOU CAN STILL BROWSE AND DOWNLOAD KIT PLANS AT

WWW.METCALFEMODELS.COM

CLASS 117 DMU

FIRST REVIEW

Brand new to the Bachmann 'OO' gauge range is the Pressed Steel Class 117 three-car DMU. **MARK CHIVERS** inspects this new arrival which looks to put the vintage Lima product firmly in the shade.

The cab interior is fully modelled with control desk fittings and destination blinds.

ARRIVING AT RETAILERS now is Bachmann's newly tooled 'OO' gauge Class 117 three-car Diesel Multiple Unit (DMU) – which should prove very popular with Western Region modellers.

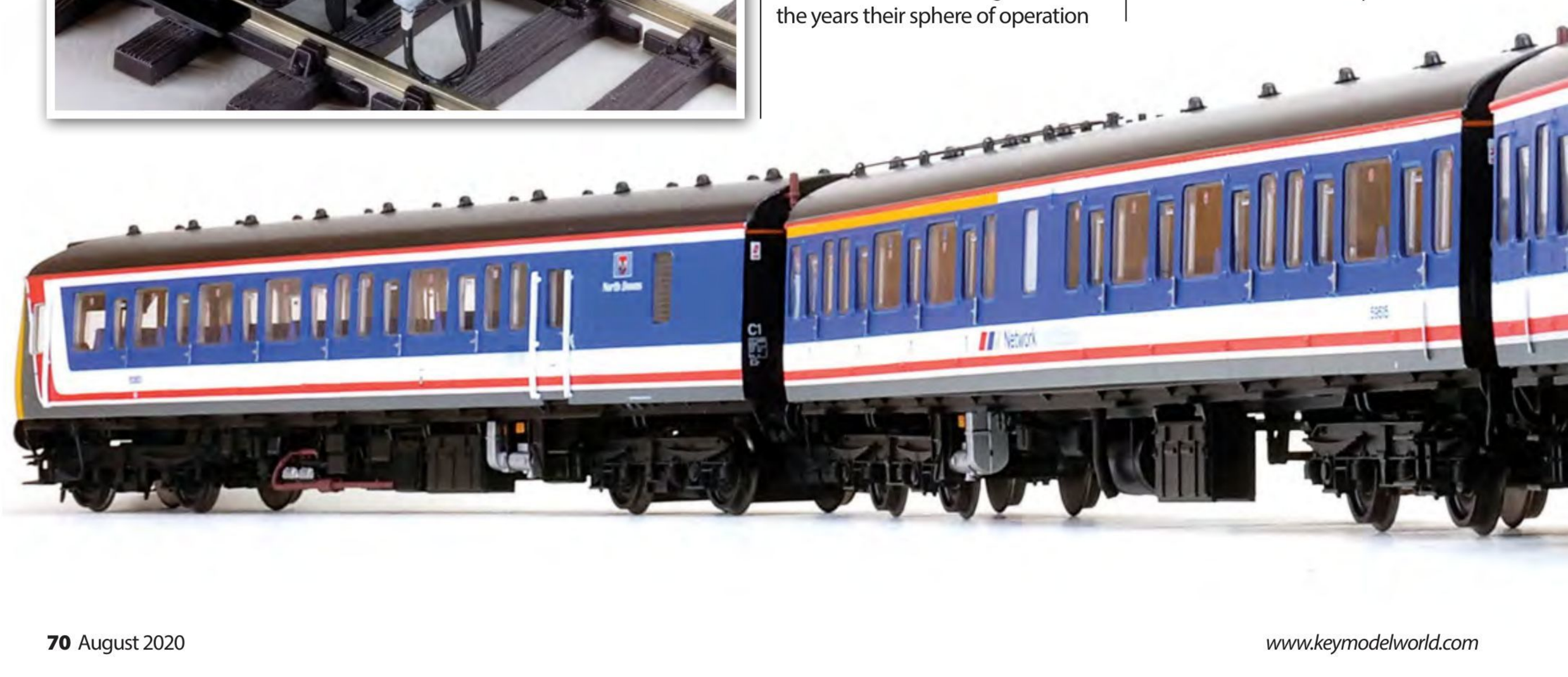
More than 120 Class 117 vehicles were built by the Pressed Steel Company at Linwood in Scotland in the late 1950s, split between 42 Driving Motor Brake Seconds (DMBS), 42 Driving Motor Seconds (DMS) and 39 Trailer Composite with Lavatory (TCL) centre cars.

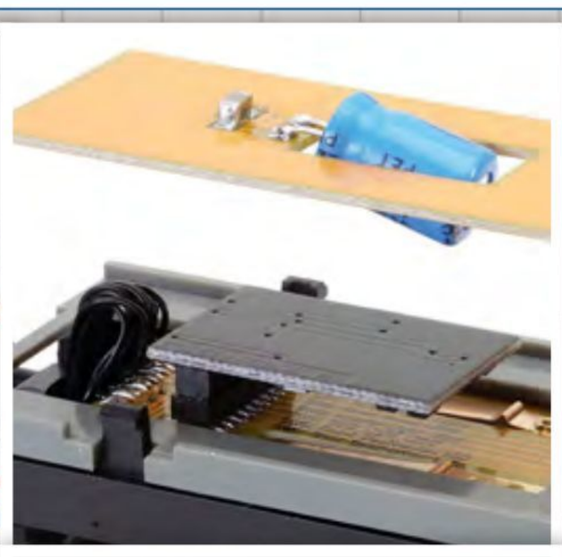
Destined for BR's Western Region, they were designed as high-density units for suburban work and featured distinctive roof-mounted four-character headcode boxes and doors to each seating bay. They were originally delivered without gangways, although these were added later, with allocations initially split between Southall and Reading depots for use on services to/from London Paddington. Over the years their sphere of operation also took in Bristol, Cardiff, the West Country, Birmingham, Gatwick Airport, Edinburgh and more. See Reality Check on pages 74-77 for more on the history of these first generation units.

THE MODEL

Until Bachmann announced plans for its 'OO' Class 117 three-car and Class 121 single railcar units in 2015, the previous route to an accurate Class 117 was Lima's vintage 'OO' gauge model which required a fair bit of conversion work as Lima's tooling only covered the DMBS and TCL vehicles. The new Bachmann model is a radical improvement in every respect and offers a high definition model of these attractive units.

Three standard range versions of the Class 117 form the first batch of Bachmann releases in BR green with 'speed whiskers' (Cat No. 35-500), BR blue and grey (35-501) and BR Network SouthEast livery (35-502).





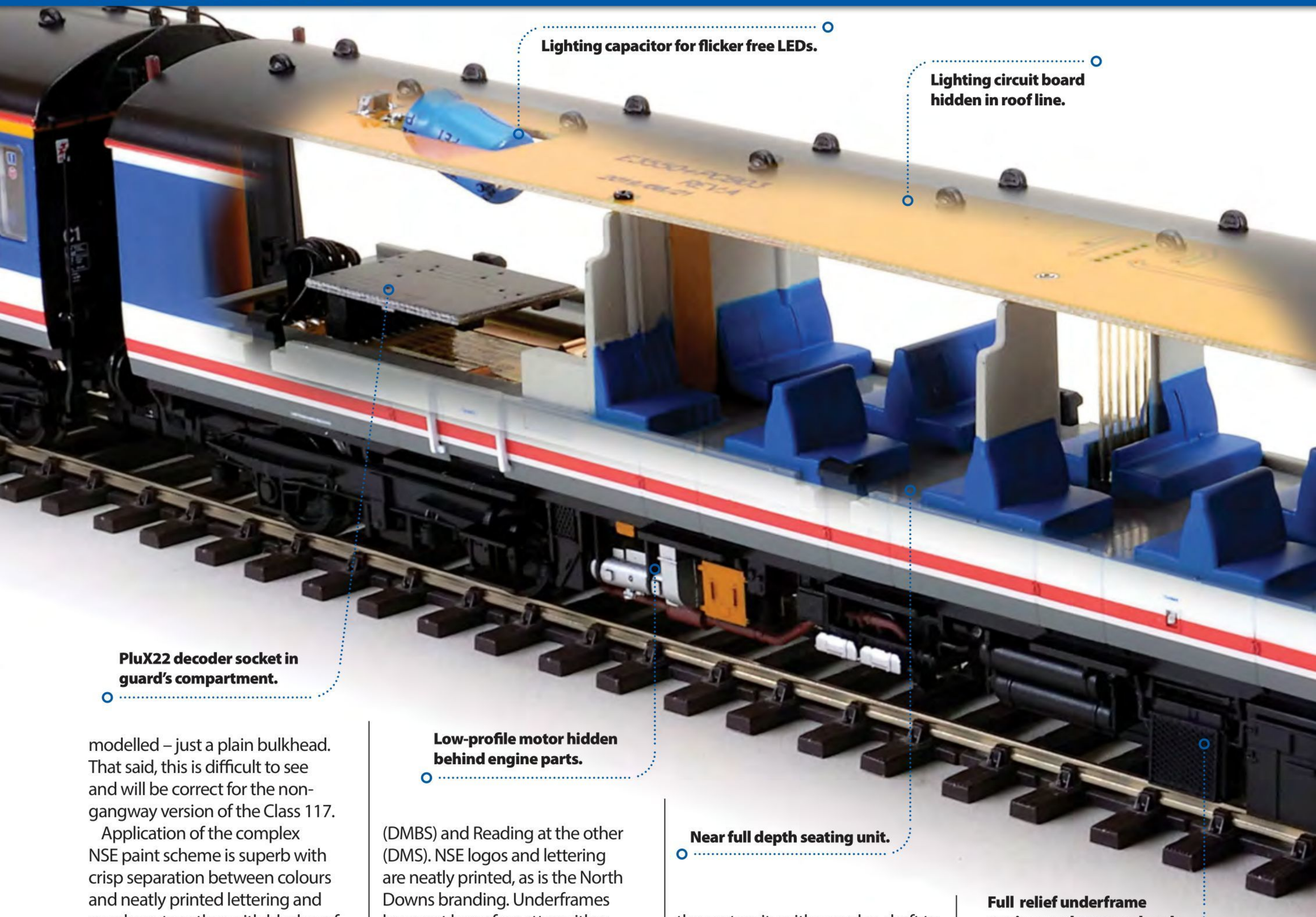
TECHNICAL DETAILS	
Manufacturer:	*www.bachmann.co.uk*
Cat No:	35-502
Description:	Class 117 3-car DMU, L425, BR Network SouthEast
Builder:	Pressed Steel
Region:	Western
Gauge:	'OO'/16.5mm
Scale:	4mm:1ft
Length:	267mm (per coach)
Price:	£314.95
Couplings:	Small tension locks in NEM pockets
DCC:	DCC ready, PluX22 socket
Speaker:	Factory-fitted cube (x2)
Exterior lights:	Directional marker lights, high intensity headlights, destination blinds
Interior lights:	Cab and interior lights
Minimum curve radius (designed):	Second
Minimum curve radius (tested):	Second
Motor type:	Three-pole, two (DMBS/DMS)
Flywheel:	Two, one per motor
Wheel arrangement:	DMU
Purpose:	Suburban
Haulage capacity (expected):	Three coaches
Haulage capacity (actual):	Three coaches

A limited edition in GW150 chocolate and cream (35-500Z) is also available exclusively from Kernow Model Rail Centre (see pages 86-87).

For review, we received three-car unit L425 in the later Network SouthEast (NSE) colour scheme, comprising DMBS 51363, TCL 59515 and DMS 51405, with North Downs route branding. Delivered new to Reading (RG) depot in July 1960, the unit maintained its original formation until late 1993, when it was transferred to Bletchley depot as a two-car unit. Our sample represents unit L425 from around 1992/1993 when allocated to the Reading-Gatwick Airport route. Highlights include high-intensity headlights, plated-over four-character headcode box, bodyside heater grilles and the later form of NSE livery with curved upsweeps at each end and darker shade of blue.

Bachmann's tooling suite will also cater for era-specific variations (as appropriate) to the buffers, exhaust stacks, headcode boxes, bogies, body styling (with or without gangways) and more. Detailing throughout is excellent with sprung Oleo buffers, metal lavatory water pipes (TCL), lamp irons, flexible speedometer cables, a wealth of delightful separately fitted underfloor engine components and much more. Doors and footboards are neatly moulded, as are the grab handles and door bumper stops, while inside the flush-glazed vehicles, the interiors also feature impressive detailing with blue 3+2 seat mouldings for standard class and a purple hue to the 2+1 first class seat moulding in the TCL.

Closer inspection of the cabs reveals a driver's seat, tip-up seat and a comprehensively detailed control desk, while the TCL features seating to the correct proportions, with both First and Standard Class areas including partitioned sections with the correct number of seats. The interior compartment doors also have that orange shade of the prototypes, as do the inside edges of the gangways, while the vestibule end doors are finished in grey. However, the inner faces of the vestibule doors do not appear to be »



modelled – just a plain bulkhead. That said, this is difficult to see and will be correct for the non-gangway version of the Class 117.

Application of the complex NSE paint scheme is superb with crisp separation between colours and neatly printed lettering and numbers, together with black roof, yellow cab fronts, black cab window surrounds and black inner vestibule ends. Legible No Smoking, First Class and door droplight stickers have been applied to the glazing, while driving vehicles feature small RG allocation stickers beneath the vehicle numbers, toilet windows are opaque and coolant caps have been picked out in silver - a nice touch.

Destination blinds are illuminated, and certainly look the part. They are separate mouldings set back from the glazing and feature Gatwick Airport at one end (DMBS) and Reading at the other (DMS). NSE logos and lettering are neatly printed, as is the North Downs branding. Underframes have not been forgotten either, with engine components picked out in orange, red oxide and silver, while the separate vertical exhaust stacks either side of the gangways on the DMS and DMBS are also painted red oxide.

PERFORMANCE

As with the Class 121 (HM155), Bachmann's low-profile can motor and flywheel setup has been used on the Class 117 – two, in fact – with one in each driving vehicle. The underframe moulding incorporates a low-slung motor housing in which the motor sits with a cardan shaft to the geared bogies at the inner end of the DMS and DMBS. Each vehicle features Bachmann's new 14-pin plug and socket arrangement for electrical connections between vehicles (a useful uncoupling tool is also included), resulting in just one PluX22 Digital Command Control (DCC) decoder being required for digital users.

The decoder socket is situated in the DMBS guard's van and is accessed by simply unclipping the body from the chassis. Incidentally, should you wish to run the model in two-car formation (DMBS/DMS) you can, as the pin and socket arrangement is orientated accordingly. For digital sound installations, the unit includes two factory-fitted speakers (one in each driving vehicle) in chambers located midway along the underframe, neatly disguised amongst the separately fitted engine components. We tested the speakers with a ZIMO MX645P22 sound decoder which showed that, like the recent Class 24/1 and Class 159, the cube speakers used in the 117 are underfunded and don't have the volume or tonal range we would have liked.

On test, our three-car unit ran smoothly throughout the speed range, although the motors proved noisier than we had anticipated when using a basic analogue controller. This improved with running-in and we noticed when transferring the unit to our full test track that the unit was silent in operation when using a high quality Gaugemaster analogue controller. In service the three-car unit proved capable of propelling all three vehicles with ease which is all we would expect of this type of unit.

LED light bars are fitted within each vehicle and a series of six on/off switches on the underside of the DMBS enable lighting options such as directional markers and destination blinds to be individually switched on or off, which is particularly useful if running more than one unit coupled together, as well as control of lighting in the cabs and passenger saloons. Digital Command Control (DCC) users can select these through the function keys.

Neatly moulded bogies, each with pick-ups and blackened metal wheels, also include separately applied side steps (where

Underframe detailing hides the compact motor at the rear of each power car.

"Bachmann's low-profile can motor and flywheel set up has been used on the Class 117."

MARK CHIVERS

GO ONLINE!
VISIT WWW.KEYMODELWORLD.COM
TO SEE THIS IN ACTION

Correct three+two seating in Standard Class.

Fully detailed cab interior.

Turned metal wheels in all bogies.

Bufferbeam parts are supplied in the accessory pack.

appropriate) and in-line brake shoes, while NEM coupling pockets with small tension lock couplings are fitted to the outer ends of the unit. Detailing packs for each vehicle contain decorated multiple working sockets, pipes and screw couplings to further customise the DMU, though we did note that the holes needed opening out to allow each part to fit onto the bufferbeam comfortably.

OVERALL

Bachmann's Class 117 DMU is a model I have been waiting to appear for a long time, having enjoyed many trips on the prototypes through the 1980s and 1990s. The speaker choice is limiting, but even so the wait for this impressively detailed Class 117 has been worth it and it plugs a big gap in the DMU fleet for suburban first generation designs. How long before someone develops a set of 4mm scale pleated blinds with strategically placed holes for installing behind the driver's cabs, I wonder…? (MC)

THE PRESSED STEEL Class 117

One of the longest-lived of the first-generation DMUs was the Pressed Steel-built Class 117, intended for the Western Region but later used in many other parts of the country. **EVAN GREEN-HUGHES** *delves into the history of these highly regarded trains.*

THE IDEA of using Diesel Multiple Units to cut costs and increase ridership on British Railways' local and secondary services pre-dated the Modernisation Plan of 1955, with the first trains actually taking to the rails in 1954. Three distinct types of DMU were proposed. The first was a 'go-anywhere' low-density type which could be used for secondary services, the second was for use on cross-country work where a greater level of comfort was required while the final type would be for the use of short-haul commuters.

The 1955 plan contained a proposal for the use of diesel railcars (as they were then known) on much of the suburban network of the Western Region, including the lines emanating from Paddington and those around Birmingham and Cardiff. These proposals required the construction of a very large number of vehicles, the finance for which was readily made available, and these were all to be built to the same design, although by different manufacturers, due to a lack of capacity within BR's own works.

Derby Works was responsible for the general design and layout and this was closely based on the Class 114 long-wheelbase low-density type, which was in production at this time. To make the changes necessary for suburban work, the body style was changed so it had seating bays arranged round the maximum number of side doors - but otherwise the general method of construction was the same. As might have been expected, the cab design used had the by-now standard Derby layout.

Derby began producing its version of this design, in the form of the Class 116, in 1957 with 320 vehicles eventually being constructed for services in Birmingham and South Wales, while British Railways simultaneously put the building of several hundred more out to competitive tender. One of the firms successful in winning the work was the Pressed Steel Company of Linwood, near Paisley, in Scotland, with the firm being given an order for 123 vehicles on October 16 1958. These were to comprise 42 Driving Motor Brakes, 42 Driving Motor Seconds and 39 Trailer Composites, which were intended to work as three-car sets, the additional power cars being intended for use as spare vehicles as the need arose. Of these the majority were intended for Paddington suburban services, while a smaller number were to be sent to Bristol and for services in Devon and Cornwall.

Later to be designated as Class 117, the Pressed Steel vehicles differed little from their Derby-built sisters, which was

Looking smart in BR blue and grey livery and now sporting marker lights, Class 117 L416 (formed of W52353, W59505 and W51395) approaches Hungerford on a Paddington to Newbury working in spring 1986. Brian Stephenson.

From 1977 the Class 117s were refurbished and they were turned out in BR white with blue stripes, though this livery was short lived due to the difficulties in maintaining its appearance. On March 4 1980 L415 formed of DMBS W51351, TCL W59503 and DMS W51393 calls at West Drayton while forming a Reading-Paddington working on March 4 1980. Lewis Coles/Rail Archive Stephenson.

not surprising as they were constructed using drawings supplied by BR. The passenger sections were split from each other by full-width partitions and no corridor connections were fitted, which made access to the two toilets fitted to the centre trailer impossible unless you were already in one or other of the adjoining compartments. The seating was very similar to that being fitted to low-density units at that time and was far below the standard of that previously fitted to steam-hauled suburban stock. As delivered the cab fronts did not have marker lights, instead relying for forward illumination on the large four-character headcode box fitted above the cab windscreens (although for some reason the last three did incorporate marker lights, a fitting that was later added to all others in the class).

In view of their intended destination all units were fitted with Western Region ATC (Automatic Train Control) from new. This was the Western's electro-mechanical precursor to British Railways' electro-magnetic Automatic Warning System, which was later brought into line with the standard version used on all other regions.

Deliveries commenced quickly with the first of the class put into service only a year after the order was placed, while construction of the whole batch took only a year after that. All were in service by November 1960 with allocations to Reading and Southall depots. The class successfully took over almost all of Paddington's suburban work with the bulk of the services operated being between the capital and Reading via Slough, but examples also travelled out to Oxford, Westbury and Salisbury. Later some other routes out of Reading were added, including those to Basingstoke and Portsmouth. The sphere of operation was widened yet again in the early 1970s when some examples went to Bristol, Cardiff and Plymouth.

MAJOR CHANGES

As might have been expected one of the deficiencies of the Derby suburban design was that passengers were essentially trapped in separate areas of the train, and should there be an emergency it was difficult for assistance to be rendered by the traincrew. It was also impossible for the trains to be used in 'conductor-guard' mode as the guard was unable to move up and down the train. As a result, modifications began to be undertaken to the sets in the mid-1960s and these saw coach-end gangways fitted, while inside each vehicle openings were made in the partitions which were big enough »

A pair of Pressed Steel Class 117 DMUs pass the 'HMV' factory as they depart Hayes & Harlington forming the 2.42pm Paddington-Reading service on October 19 1963. Brian Stephenson.

FACTS AND FIGURES	
Manufacturer:	Pressed Steel Co. Linwood
Built:	1959-1960
Withdrawn (passenger service):	1994-2000
Number built:	39 sets plus three spare power cars of each type
Number series:	DMBS 51332-51373
	DMS 51734-51415
	TCL 59484-59522
Configuration:	Suburban
Seating capacity (original):	DMBS 65 second
	TCL 24 first and 50 second
	DMS 91 second
Wheel arrangement:	Two four-wheel 8ft 6in wheelbase bogies per coach
Wheel diameter:	3ft 6in
Engines:	Two Leyland 680 per power car
Horsepower per vehicle:	300hp
Gearbox:	Self-Changing Gears R14 four-speed mechanical
Final drive:	F239 reversing type on one axle to each bogie
Train heating:	Two Smiths diesel-powered warm air heaters per vehicle
Brakes:	Gresham and Craven twin-pipe vacuum
Multiple working:	Blue Square (standard)
Length:	67ft 1in over buffers per vehicle
Width over cabs:	9ft 3in
Height:	12ft 81/2in
Weight:	36ton 0cwt (power cars) 30ton 0cwt (trailers)
Maximum speed:	70mph
Vehicles preserved:	52

for a person to pass through, leading to a small loss in seating capacity.

The Class 117s led a fairly humdrum life without much in the way of incident. Green livery gave way to plain blue beginning in 1967, and the class was so useful that it was one of those selected for upgrading and refurbishment in the 1970s. One factor in this may well have been the lack of asbestos insulation. One by one, units began to visit works and they then duly emerged with brightened up interiors, new lighting, some mechanical improvements and a new colour scheme of rail grey with a blue stripe, the first appearing in 1977 and the scheme taking around two years to complete. All sets received blue and grey livery from around 1980 onwards, the refurbished scheme having proved difficult to keep clean.

Second-generation DMUs began to arrive on the system in the early 1980s and inevitably this had an impact on the Class 117s. Many of the London and Reading-based units were moved to Birmingham in this period and were put to work on the cross-Birmingham suburban network, while others hung on long enough to be replaced by Class 165 units. Four power-

From the mid-1980s the final Class 117s began receiving Network SouthEast colours. In the late 1980s Class 117 L424 and a second unit in BR blue and grey have passed Swanbourne during a special working from Oxford to Wolverton. Brian Stephenson.

twins (two-car sets formed of pairs of power cars) were sent to Penzance to work steeply-graded branch lines while some others were based at Old Oak Common for the Gospel Oak to Barking route.

PRIVATISATION

Preparations for privatisation brought with them another change with many Class 117s being taken up by the newly-formed Regional Railways, and being allocated to Birmingham and also to Haymarket in Edinburgh. These were all repainted in the attractive Regional Railways livery and refurbished once again. Those units still allocated to Southall passed to Network SouthEast and received that division's new corporate livery, and during this period one or two received 'one-off' celebrity liveries, including one in GWR chocolate and cream.

Those units allocated to the west of England found themselves squeezed out by the introduction of Class 150s by 1993, though some were given a slightly longer lease of life to cover for the Class 142s which had not lived up to expectations on Cornish branches. Duties on the Edinburgh suburban system continued until 1998 when enough Class 156s became available to take over. Two trains were also used after normal service in the construction of the Channel Tunnel, taking workers to construction sites while one set received Sandite equipment and worked from Tyseley depot in the Birmingham area. A third set had a second career as a water-jetting train being used by Chiltern Railways and this included an interesting centre vehicle which started life as Driving Motor Second 51375, which had its cab removed and replaced by a coach end, making a fully-powered three-car set.

WITHDRAWALS COMMENCE

Withdrawals from passenger service began in 1994 as duties declined, and continued until 1999 when the remainder were stored, in the end at the unlikely venue of MOD Shoeburyness in Essex, at the mouth of the Thames estuary, with scrapping or sale following shortly afterwards.

The Class 117 was, however, to be retained in relatively large numbers for preservation with examples being purchased as early as 1994, and currently there are 52 vehicles remaining, of which 31 are power cars, roughly split 50/50 between Driving Motor Brake Seconds and Driving Motor Seconds while the rest are centre trailers. Many of the trailers are, however, used as hauled stock while the condition of the power cars varies from one complete main line registered set to a number which are in poor condition, with some under restoration and some partly stripped. A total of 11 previously-preserved vehicles have not survived and it is likely that others may follow in due course, mainly due to the propensity of the type to body corrosion.

Of particular interest is the set allocated to the Swanage Railway which has just had an expensive overhaul to bring it back to main line standards, including the fitting of central door locking and other features which will enable it to be used on the proposed Wareham to Swanage connecting service. Another set is at Eastleigh Works for conversion to main line standards, although this is for the proposed North Somerset Railway, while many others are in daily service on our heritage lines.

Suburban DMUs do not traditionally attract the same amount of interest as their low-density cousins. It is perhaps only now, 20 years after their withdrawal from service, that we have come to respect the part that they have played in the successful running of our railways, and in the movement of millions of people over four decades of service. HMm

Class 117 trailed by Driving Motor Brake Second W51346 is captured from a steam hauled express near Acton Wells Junction forming a Paddington-Slough service on August 30 1960. The unit is clearly fresh from construction at Pressed Steel in Paisley. Note the taillamp on the bufferbeam as these units had no marker lights when built. Brian Stephenson.

Unit B430 received Western Region style chocolate and cream colours for the GWR150 celebrations in 1985. In September 1987 the three-car unit passes Severn Tunnel Junction forming a Cardiff-Chepstow local working. Railphotoprints.uk.

Pressed Steel three-car Class 117s arrive at Twyford forming a Reading-Paddington service on April 8 1963. Both units carry unlined BR green with speed whiskers and white cab roofs. Brian Stephenson

Sutton's Locomotive Works UPGRADED SULZER '24'

The SLW Class 24 was highly regarded when it first arrived in 2016 (HM111), but now it has been given a makeover to enhance its details and make its sound file more user friendly. **MIKE WILD** takes a closer look at the latest additions to the portfolio.

RECEIVING A SUTTON'S Locomotive Works' 'high definition' model is something of an event. Each is delivered in a paper wrapped metal foam lined tin with the model fixed to a plinth.

In this case, the model is the latest Class 24 in 4mm scale – a term I use because it can be specified with 'OO', 'EM' or 'P4' gauge wheelsets.

We first reviewed the SLW Class 24 in 2016, but plenty has changed since then and numerous further versions have been produced. SLW says nine productions have now sold out and seven other locomotives are currently available with three more on the way.

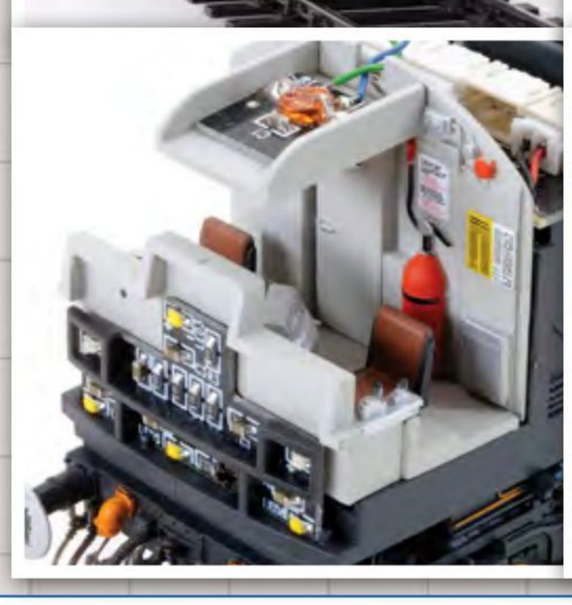
Current options cover Eastern Region two-tone green, BR green with small yellow warning panels, Scottish Region BR blue, Railway Technical Centre (RTC) livery and the more obscure BR blue with small yellow warning panels.

Our samples here cover the latest release as D5021, in the unusual but attractive BR blue with small yellow warning panels, and the sought-after 97201 in RTC blue and red. Both are striking, but SLW hasn't rested on its laurels and has improved an outstanding model even further.

THE MODEL

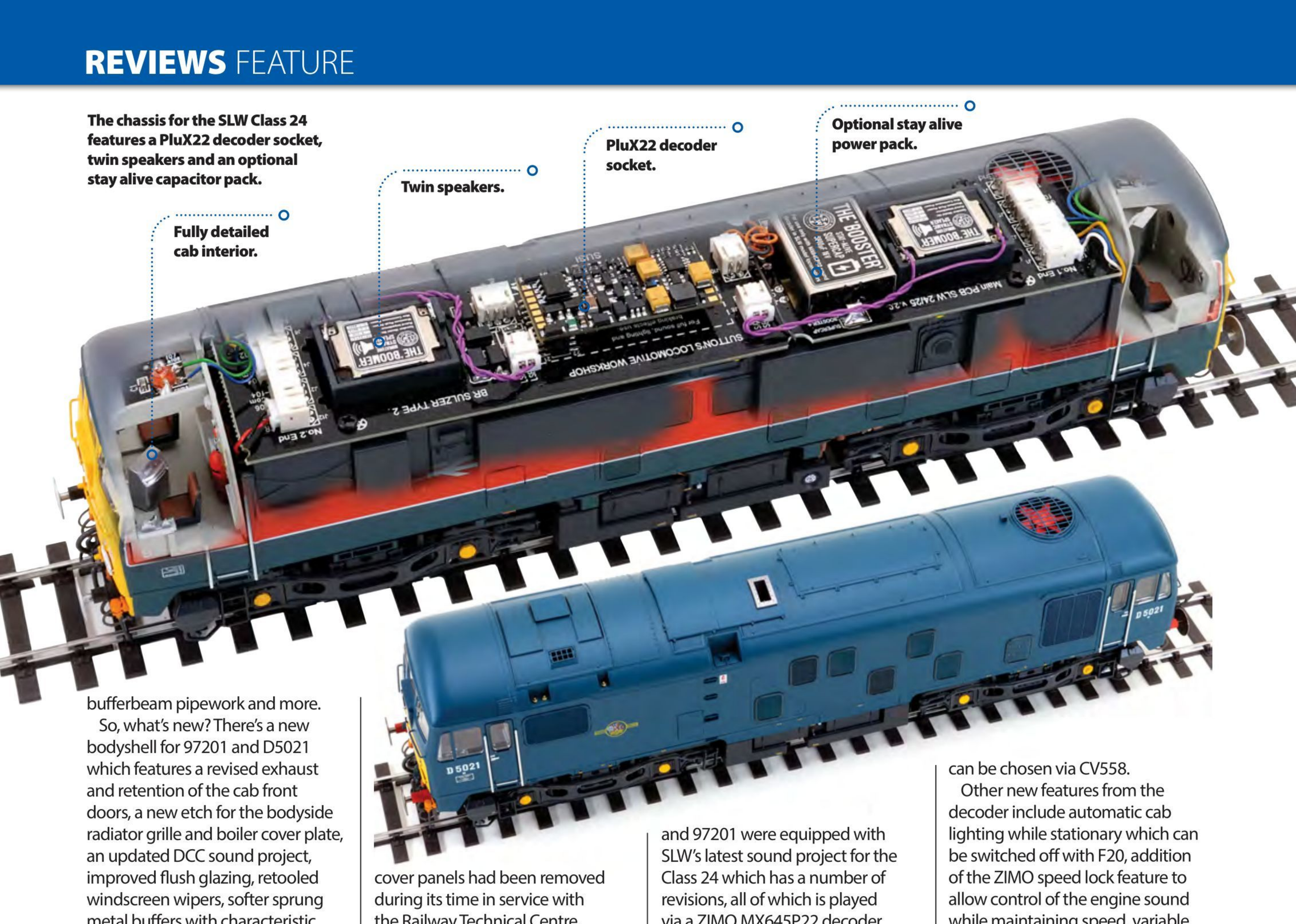
The overall exterior shape remains exactly as before - and this is the most authentic model of the Class 24 for 4mm scale there has ever been. Its fidelity is simply unrivalled.

Standard features include directional lighting, centrally mounted five-pole motor with flywheels, twin-speakers, optional stay alive capacitor pack, custom sound enclosures for the speakers to gain the best performance for sound where fitted, a Plux22 decoder socket, pre-fitted headcode discs in appropriate arrangements, a full set of »



TECHNICAL DETAILS	
Manufacturer:	*www.sulzertype2.co.uk*
Cat No:	2406 (97201), 2410 (D5021),
Description:	Class 24 Bo-Bo Type 2 diesel
Builder:	BR Derby
Region:	Midland/Eastern/Scottish
Gauge:	'OO'/16.5mm, 'EM'/18.2mm, 'P4'/18.84mm
Scale:	4mm:1ft
Length:	201mm
Price:	£185 (DCC ready), £295 (DCC sound fitted)
Couplings:	Small tension locks in NEM pockets
DCC:	DCC ready, PluX22 socket
Speaker:	Factory-fitted cube (x2)
Exterior lights:	Directional marker lights and taillights
Interior lights:	Cab lights
Minimum curve radius (designed):	Second
Minimum curve radius (tested):	Second
Motor type:	Five-pole
Flywheel:	Two
Wheel arrangement:	Bo-Bo
Purpose:	Mixed traffic
Haulage capacity (expected):	Eight coaches
Haulage capacity (actual):	Ten coaches (maximum tested)

GO ONLINE!
VISIT WWW.KEYMODELWORLD.COM
TO SEE MORE ON THIS MODEL



bufferbeam pipework and more.

So, what's new? There's a new bodyshell for 97201 and D5021 which features a revised exhaust and retention of the cab front doors, a new etch for the bodyside radiator grille and boiler cover plate, an updated DCC sound project, improved flush glazing, retooled windscreen wipers, softer sprung metal buffers with characteristic grease marks depicted, revised screw coupling and enhanced decoration. The new couplings and buffers are being made available as spare parts by SLW too for retro fitting to other models.

All these changes create a locomotive which is just that little beyond what went before and it's great to see such attention to detail being invested in a single ready-to-run locomotive. Once you know that these items have been upgraded your eye naturally starts hunting for them and each one makes a difference.

Also not to be missed are the correct pattern wheels with holes, fully detailed cab interior, super fine handrails and the exposed pipework along the lower edge of the body on 97201 where the cover panels had been removed during its time in service with the Railway Technical Centre.

Decoration of both of our samples was sublime. Crisp edges to colours, supremely fine lining on 97201, pin sharp numbers and lettering and excellent reproduction of the BR crest and double arrow logo respectively on each model. Another nice touch is the softening of the black on the underframe while the new grease marks on the buffers – themselves perfect replicas of the prototypes including the central hole – add to the overall look.

PERFORMANCE

In service the SLW Class 24s run just as well as they look. Both our samples purred around our test track silently and displayed smooth transitions between speeds through digital operation. D5021 and 97201 were equipped with SLW's latest sound project for the Class 24 which has a number of revisions, all of which is played via a ZIMO MX645P22 decoder through two of Rail Exclusive's own speakers which have custom sound chambers to suit the '24'.

This sound project has a number of improvements which makes it better suited to a wide variety of DCC handsets. There are still 28 sound functions available (plus directional lighting on F0) while the creators have made full use of the ZIMO decoder software to introduce automation for selected functions which were previously manual. In addition it allows the locomotive to replicate Train Mode (without taillight illuminated as standard) while switching on Shunting Mode with F5 turns the taillights on and changes the acceleration and deceleration characteristics automatically. You also get four different crew speeches which can be chosen via CV558.

Other new features from the decoder include automatic cab lighting while stationary which can be switched off with F20, addition of the ZIMO speed lock feature to allow control of the engine sound while maintaining speed, variable flange squeal for different speeds, 12 different horn sounds operated by F3 and F4 depending on speed and direction of travel and variable wagon snatching/buffering depending on driving style.

Also worth mentioning are the driving choices. You can leave it all to the throttle to make the engine sounds change. Small speed increments mean small changes in the engine sound while big speed step increases can take the locomotive to higher power bands to represent a locomotive working hard. Alternatively, you can use the speed lock option through F22 or take over completely manually using F23-F26 which select the power notch on the controller between quarter, half, three quarter and full positions. There are so many sound functions available through the Class 24 and you can hear how they all work in our comprehensive video at *www.keymodelworld.com*.

OVERALL

The upgrades to the SLW Class 24 make this a model which in this scale may be unsurpassed in presentation, detail, performance and sound operation. This Class 24 is in a class of its own and we hope there will be more locomotives from Sutton's Locomotive Works in the future. (MW)

97201 is presented superbly in its unique RTC red and blue.

THE NEW SLW CLASS 24s ARE SELLING OUT FAST!

THE BEST SULZER TYPE 2 MODEL JUST GOT EVEN BETTER

Our museum-quality, 4mm scale, ready-to-run locomotive has met with widespread acclaim. Join the growing band of delighted modellers by choosing from four new releases, all of which are now in stock. These latest versions incorporate upgrades including new glazing, finer wipers, enhanced sound features and even grease-marked sprung buffers! Available as DCC sound or DC analogue in 'OO', 'EM' or 'P4' gauge. You will not be disappointed. But don't take our word for it... Read the reviews, ask our satisfied customers, or just make your own appraisal.

Call us on 01780 470086 or visit www.sulzertype2.com

Also available:

Cat No. 2406:
97 201 *Experiment*
BR Research Department lined red and blue livery. Includes free waterslide nameplate transfers.

Cat No. 2407:
D 5040 Two-tone Green
(with small yellow panels). An attractive but less common livery applied by Derby in the mid-1960s. Ipswich-based machine.

Cat No. 2407A:
D 5053 Two-tone Green
(with small yellow panels). An alternative representing a Finsbury Park-based loco.

Cat No. 2409:
24 009 BR Blue
Corporate British Rail livery as applied by the Scottish Region in the late-1970s. Plated over doors and five-digit TOPS numbers.

Cat No. 2409A:
5099 BR Blue
Corporate British Rail livery as applied by the Scottish Region in the early-1970s. Plated over doors and pre-TOPS numbers.

facebook
Search: @suttonslocoworks

SLW is proud to be 100% British owned

WE ARE OPEN FOR TELEPHONE ORDERS

NEW RUNNING NUMBER ADDED DUE TO DEMAND

Cat No. 2408A:
D 5083 BR Green
(with small yellow panels) The standard 1960s livery. Includes free photo-etched stainless steel 'CONDOR' freight train headboard.

Each model includes our iconic metal tin packaging containing a protective desktop display case plus accessories/spares, loco history information sheet and basic instructions. Please download the full instruction booklet from our website.

Please call us if you have any questions or wish to discuss exact model specifications including our fantastic supercap 'stay-alive' sound upgrade option.

YouTube
Search: 'SLW Class 24'

SUTTON'S LOCOMOTIVE WORKSHOP · SLW · KING'S CLIFFE, ENGLAND

Hornby delivers its LARGE PRAIRIE'

FIRST REVIEW

The powerful and versatile '5101' and '61XX' 2-6-2Ts are the latest Great Western motive power to be released for 'OO' gauge by Hornby. **MIKE WILD** inspects the first arrival – 6145 in BR black.

The first of Hornby's new 'OO' gauge 'Large Prairie' 2-6-2Ts arrived at the end of June. Our review sample models Reading shed's 6145 in BR black.

TECHNICAL DETAILS	
Manufacturer:	*www.hornby.com*
Cat No:	R3723
Description:	GWR '61XX' 2-6-2T 6145, BR black, early crests
Builder:	GWR Swindon Works
Region:	Western
Gauge:	'OO'/16.5mm
Scale:	4mm:1ft
Length:	164mm
Price:	£139.99 DCC ready, £159.99 DCC fitted
Couplings:	Small tension locks in NEM pockets
DCC:	DCC ready, 8-pin socket
Speaker:	28mm x 18mm space
Exterior lights:	None
Interior lights:	None
Minimum curve radius (designed):	Second
Minimum curve radius (tested):	Second
Motor type:	Five-pole, open frame
Flywheel:	One
Wheel arrangement:	2-6-2T
Purpose:	Suburban passenger
Haulage capacity (expected):	Six coaches
Haulage capacity (actual):	Eight coaches

'PRAIRIE' tanks have a long association with the Great Western Railway (GWR). The first of the 2-6-2T breed was introduced in 1903 when Churchward developed the '3100' series locomotives. There were numerous changes over the years, including the introduction of the smaller '45XX' class 'Small Prairie' in 1906.

In typical GWR fashion, Churchward's successor Charles Collett sought to enhance the sound design principles which had been laid out by creating revised versions of older designs, and that resulted in the introduction of the '5101' 2-6-2Ts for suburban passenger work in 1929. This class reached 140 locomotives, all of which were built at Swindon Works by 1949. Allied to this fleet, Collett also developed the '61XX' series 2-6-2Ts which had a higher pressure 225psi boiler giving them an increase in tractive effort. They were introduced in 1931 and a total of 70 were built at Swindon over four years.

Hornby set out to produce a brand-new 'OO' gauge model of the Collett era 'Large Prairies' in its 2019 range, though development work started two years earlier in 2017. The first round of releases covers two '5101' and two '61XX' locomotives in GWR and BR era liveries. First to arrive is '61XX' 6145 in BR black with early crests (Cat No. R3723) and it will be followed by 6110 in Great Western green (R3721) and '5101s' 4154 in GWR green (R3719) and 4160 in BR lined green with late crests (R3725). All models have the same specification and they are being released DCC ready and DCC fitted by Hornby.

For more on the history of the '61XX' 2-6-2Ts, see HM137 or visit *www.keymodelworld.com/railway-history*.

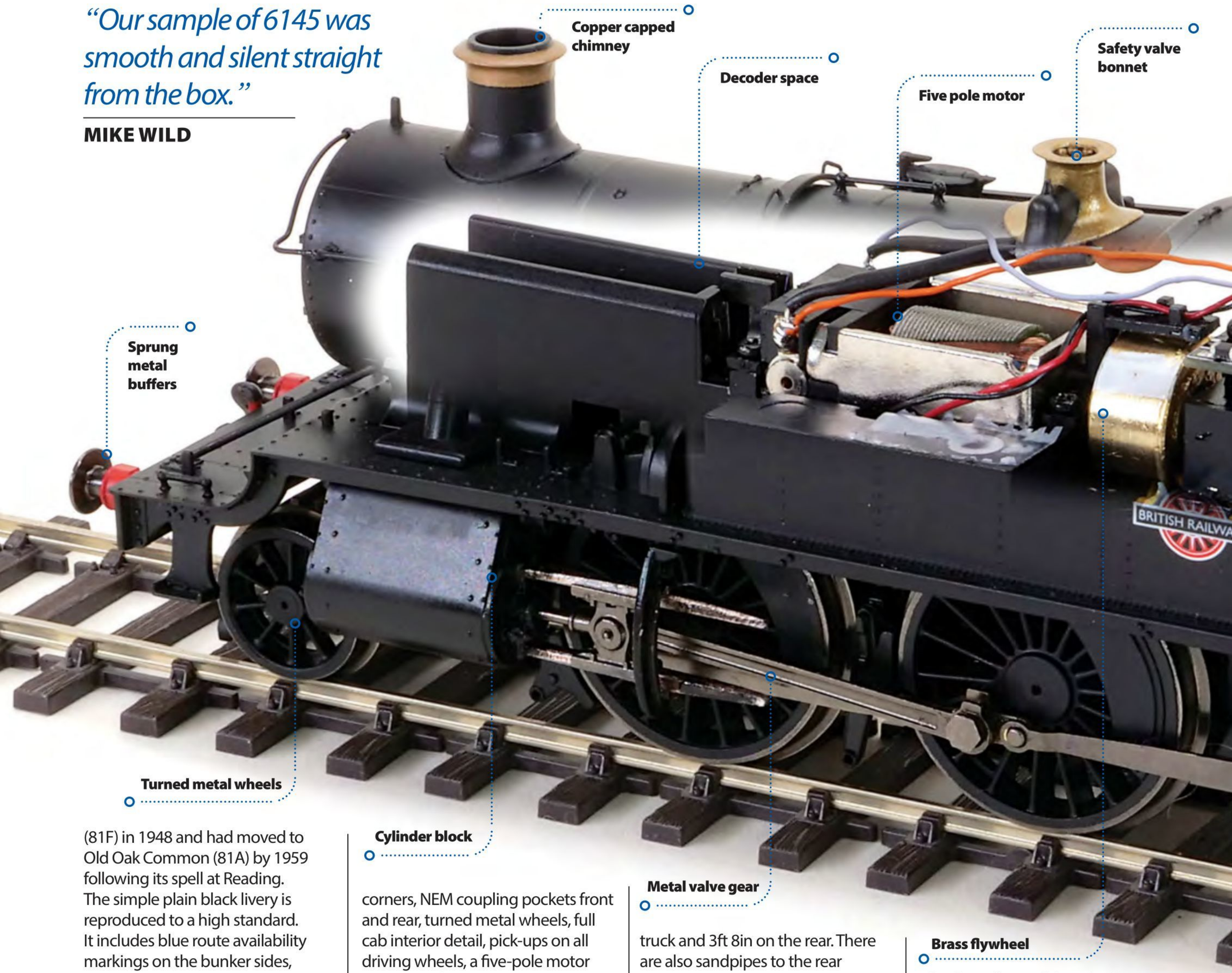
THE MODEL

Our sample is 6145 in BR black. This '61XX' was built at Swindon Works on December 31 1932 for London suburban services and remained in service until December 31 1965 when it was withdrawn from Oxford shed. It was later disposed of by Cashmores of Newport in February 1966.

The model of 6145 carries a Reading (81D) shedcode on the smokebox door which is correct for the early 1950s. Records indicate that it was allocated to Slough »

"Our sample of 6145 was smooth and silent straight from the box."

MIKE WILD



(81F) in 1948 and had moved to Old Oak Common (81A) by 1959 following its spell at Reading. The simple plain black livery is reproduced to a high standard. It includes blue route availability markings on the bunker sides, printed cabside numberplates, superbly imprinted British Railways early crests, red bufferbeams, a brass safety valve bonnet and copper lip to its chimney. The smokebox door number plate is moulded proud of the door, as it should be, while the 81D shedcode is printed below the dart.

The specification includes turned metal sprung buffers at all four corners, NEM coupling pockets front and rear, turned metal wheels, full cab interior detail, pick-ups on all driving wheels, a five-pole motor plus space for an 8-pin decoder socket inside the boiler. There is also room for a speaker in the bunker.

The external appearance of the '61XX' is spot on. Hornby's model has the rugged styling of the real locomotives, and the length is exactly right at 164mm over buffers (41ft at 4mm:1ft). Other prominent 'Prairie' features include 3ft 2in diameter wheels for the front pony truck and 3ft 8in on the rear. There are also sandpipes to the rear driving wheels only, brake shoes in line with the wheels and optional brake rigging for installation after purchase in the accessory pack.

The body meanwhile bristles with neatly appointed detail, including rivet pattern on the front footplate and around steam pipes, smokebox stays, separately fitted handrails, lubricator pipes and excellent pipework to the whistles in front of the cab. The cab roof is modelled with the vent open while the interior is fully detailed including backhead detail, regulator handbrake and reversing lever. Cab doors are set partly open and are not positionable.

PERFORMANCE

The real locomotives were punchy performers designed for smart

GO ONLINE!
VISIT WWW.HORNBYMAGAZINE.COM
TO SEE THIS IN ACTION

acceleration on local services, so we expect a model of the 'Large Prairie' to be capable too. First impressions are impressive as the 2-6-2T weighs in at 270grams coupled with an open frame five-pole motor driving the centre axle via a brass flywheel and worm led gearbox.

Out on the track, our sample of 6145 was smooth and silent straight from the box and offered excellent speed control with analogue power, even before running in. We allowed it to run light engine in both directions for 45 minutes before loading it up with a lightweight set of Hornby's 2018 released GWR Collett' bow-end' non-corridor coaches – the perfect complement to these engines. Suffice to say this load was nothing to the 2-6-2T and it ran around faultlessly with its four-coach load.

To thoroughly test its capabilities, we increased its train weight to a rake of Mk 1 stock and it handled an eight coach train without any fuss at all and operated happily through a range of points and crossings from the Peco code 75 stable on our test track.

We were particularly pleased to see that Hornby had considered digital and sound installations with the 'Prairie'. The 8-pin socket is mounted above the gearbox while there is a 23mm x 6mm channel in the smokebox for a decoder to be positioned. The bunker gives space for a 28mm x 18mm speaker, though depth is restricted to 6mm at the front due to the internal shaping. However, we can see simple ways of extending this space vertically as the bottom of the coal space could be cut away to allow a bigger speaker to be installed. Look out for a sound installation guide in a future issue.

OVERALL

The 'Large Prairies' may not have been the most glamorous of locomotives, but they provided an essential service to the Great Western and British Railways Western Region suburban operations which can't be ignored.

Hornby has done an excellent job of recreating these purposeful locomotives and, in turn, offers the first all-new 'OO' gauge model of these 2-6-2Ts since the Airfix/Dapol product which was first released in the 1980s.

This new addition is a world away from its predecessor, and it deserves to be a very popular release, particularly as we will have a choice of '5101' and '61XX' varieties. Excellent and available now. (MW)

'OO' GAUGE

GW150 117 & 121

NEW from Kernow Model Rail Centre (KMRC) are these exclusive Bachmann 'OO' gauge Class 117 and Class 121 diesel multiple units (DMUs) in GW150 lined chocolate and cream livery.

GW150 was British Rail's much-publicised year-long commemoration of the Great Western Railway's 150th Anniversary in 1985 with special events, open days and special trains, as well as a series of high-profile repaints of locomotives and rolling stock - although it was rather soured with the impending closure of Swindon Works. Amongst these were Bristol based Class 117 three-car DMU set B430 and Reading based Class 121 set 120 which were both finished in Western Region (WR) lined chocolate and cream livery with British Railways roundels.

KMRC has a long tradition of producing models with a WR theme and these are perfect stablemates. Bearing the hallmarks of Bachmann's standard 'OO' Class 117 (see pages 70-73) and Class 121 (HM155), the main difference is the exquisite livery. The Class 117 represents unit B430 and features a plated roof-mounted headcode box, comprising Driving Motor Brake Standard (DMBS) W51368, Driving Motor Standard (DMS) W51410 and Trailer Composite with Lavatory (TCL) W59520, while the Class 121 represents DMBS W55020 (set 120) with painted-over headcode box. Both feature twin directional marker lights at each end – pre-dating the fitting of high-intensity headlights at this point in their careers.

Decoration is exemplary, with a high-quality chocolate and cream paint finish, yellow ends, light grey roofs and crisply applied lining. Lettering, numbers, window labels and data panels are neatly printed as are the exquisite multi-colour BR roundels. Reflecting their sphere of operation, the Class 121's illuminated destination blinds display Maidenhead at one end and Marlow at the other, while the 117's boast Westbury on the DMBS and Taunton on the DMS.

As with the standard models, each of the destination blinds, cab lights and directional markers can be turned on or off individually, along with the passenger saloon illumination. Each vehicle also includes a detailing pack for customer fitment.

These exclusive GW150 liveried Bachmann DMUs are sure to be highly sought after and are perfect for adding a touch of variety and splash of authentic colour to a mid-1980s Western Region layout. Excellent. (MC)

FIRST REVIEW

'N' GAUGE

Farish Thompsons debut

- **Price:** £41.95 per coach
- **Cat No:** 376-201/376-250 (reviewed)
- **Site:** *www.bachmann.co.uk*
- **Era:** 3/4

NEW to the Graham Farish rolling stock collection this month are the first of its 'N' gauge Thompson corridor coaches. These highly detailed carriages are being released in LNER faux teak and BR carmine and cream liveries initially, with a choice of First Corridor (FK), Composite Corridor (CK), Third Corridor (TK) and Brake Third Corridor (BTK) vehicles.

These Thompson carriages were introduced from 1946 and brought a new design style to the LNER's passenger stock which had previously relied on wooden frame and panel teak construction. Thompson's new carriages still had wooden frames for the bodies, but they were now dressed with a steel skin. Initially this was turned out in a faux teak colour scheme

FOR KERNOW

● **Price:** £164.99/£329.95 ● **Cat No:** 35-525Z/35-500Z ● **Site:** *www.bachmann.co.uk* ● **Era:** 7/8 ● **DCC:** DCC ready, PluX22 socket

using a process called scumbling to represent wood grain on the metal. They were distinct from the previous Gresley teak coaches in having smooth side panels, straight profile roofs from end to end and oval windows for the toilets. They stood on Gresley 8ft 6in double bolster bogies.

For review we received samples of the FK in both liveries showcasing the impressive livery application that the Graham Farish factory is now capable of. Both were elaborately finished with the scumbling effect on the faux teak version being particularly impressive in the wood effect and detail of the wooden window frames, wheel centre colours, LNER gold leaf lettering and chassis markings. The carmine and cream coach was equally well finished with faultless lining at the join between the two main body colours, First Class logos in the windows and door handles picked out in brass colour.

The detailing of the FKs is superb. Features include flush glazing, turned metal wheels, Rapido couplings in NEM pockets, interior detail and full relief underframe equipment. The Gresley bogies are finely finished and the body profile and window arrangement matches that of the prototypes.

These are great additions to Graham Farish's increasing range of high detail carriages for 'N' gauge and they are sure to be popular with steam era modellers. (MW)

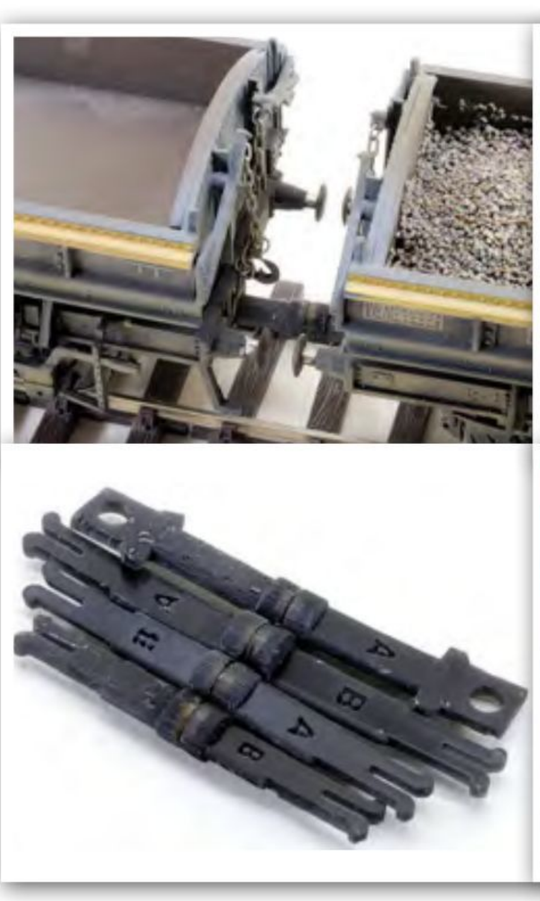
MAGNETIC COUPLINGS offer easy replacement

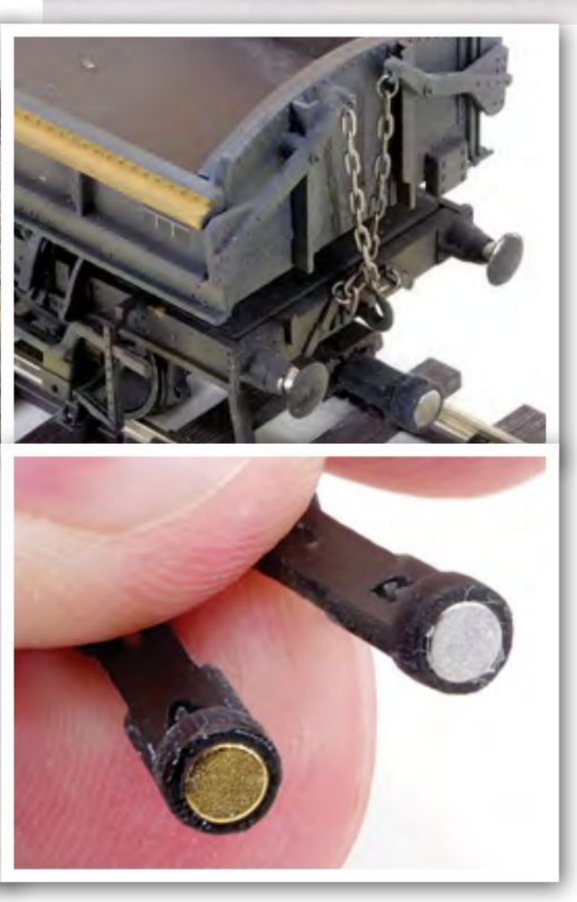
- **Price:** £12.95 (ten pairs)
- **Cat No:** See text
- **Site:** *www.westhillwagonworks.co.uk*

LAUNCHED earlier this year, the Hunt Coupling range of magnetic couplings for 'OO' from West Hill Wagon Works has expanded rapidly.

These simple to use magnetic couplings are designed to replace existing 'OO' tension lock couplings and whilst primarily aimed at more recent models fitted with NEM362 couplers, there are also replacements for carriages and wagons fitted with older style tension lock couplings too. 'N' gauge examples are also now available, while 'O' gauge magnetic couplings are in development.

The bulk of the range, though, is designed for a straight swap in standard 'OO' gauge NEM362 coupler pockets with straight and stepped options, standard and close coupling versions and even an ultra-close option, which is ideal for some wagon types. Recent additions include a pack suitable for ViTrains 'OO' locomotives with a NEM363 mount and a combination coupling which features a magnet and a tension lock coupling bar so it will work with either coupling type.





Having trialled a few packs on Bachmann, Heljan, Hornby and Oxford Rail 'OO' rolling stock, they have proved secure in use and can also reduce the gap between vehicles – I had the vestibules touching on a rake of Bachmann Mk 1s and, thanks to their coupling cam system, they still negotiated second radius curves without issue.

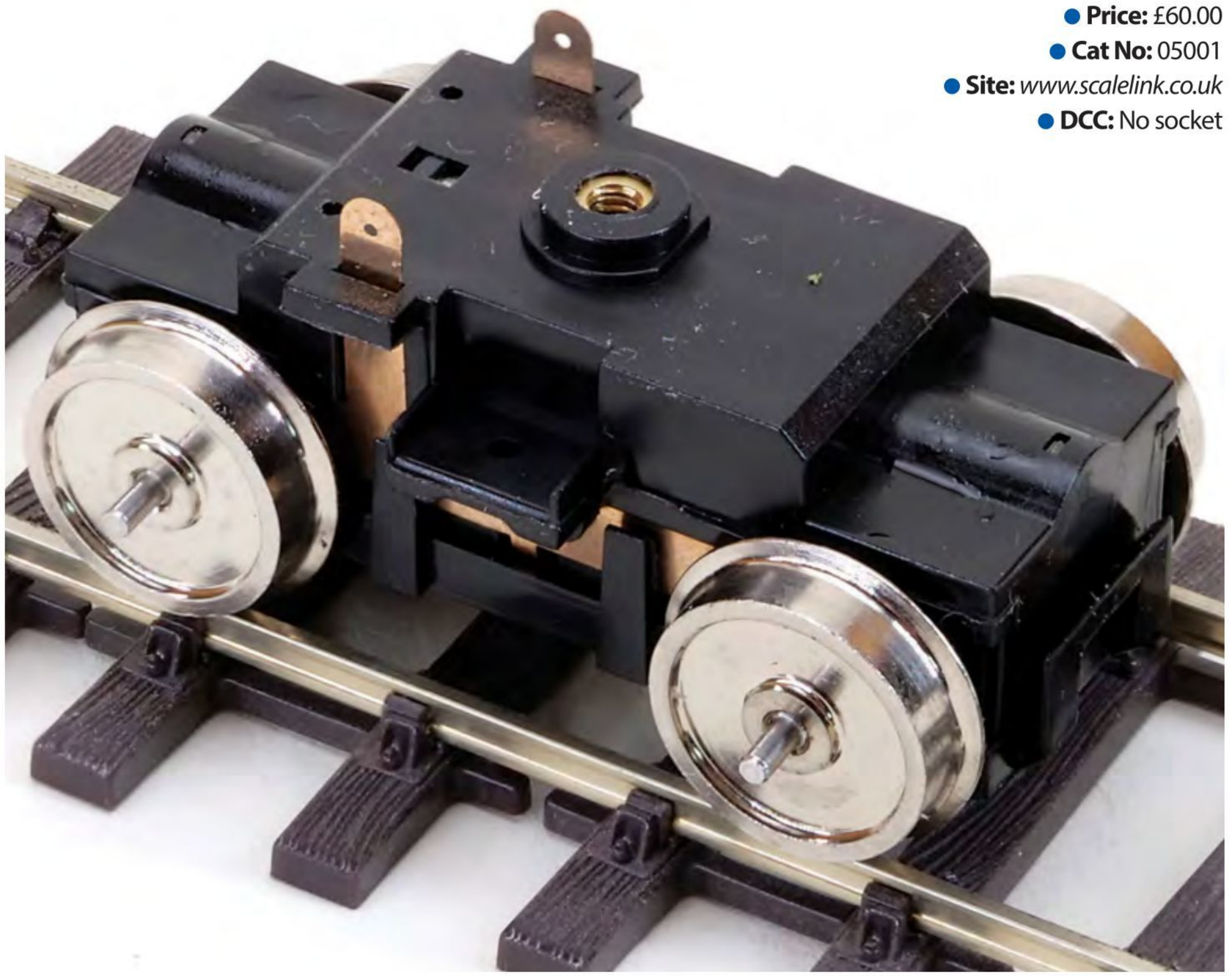
Each coupling features a tiny magnet fitted at one end (and fishtail connection to the vehicle at the other), which when in contact with the opposing magnetic pole coupler on the next vehicle, forms a strong bond. Couplings are supplied in pairs, marked A and B so they can be orientated correctly in train formations. They can also be prised apart easily, which is a bonus when packing stock away at exhibitions.

This is an exciting new product which is simple and effective. However, you do need to be gentle with them, as they don't seem quite as flexible as the couplings they replace, and I have experienced a couple of fitment issues – either too tight or not snug enough – but the benefits far outweigh these.

At £12.95 for ten pairs of 'OO' couplings, they represent excellent value for money. I'm hooked… or rather, I'm not! (MC)

- **Visit *keymodelworld.com* to see video of these couplings in action.**

Tenshodo coreless power bogie



- **Price:** £60.00
- **Cat No:** 05001
- **Site:** *www.scalelink.co.uk*
- **DCC:** No socket

NEW in from Tenshodo at Scalelink is an upgraded and revitalised motor bogie featuring a coreless motor.

The powered bogie is fitted with 10.5mm disc wheels and has a 24.5mm wheelbase which will make it ideal for use in industrial locomotives as well as having the potential for use in on track plant kits.

The new coreless motor provides smooth control and it features pick ups on all four wheels together with the option to add further pick ups for greater reliability. Other features include a pack of parts to assist in fitting bogie side frames and mounting the motor bogie to a model. Its overall dimensions are 38mm x 19mm and it stands 15mm above rail level. Also included are three metal weights to assist its adhesion.

For those looking for a compact ready-made means of powering kit projects this new motor bogie will provide a good basis while serving up smooth running through its coreless motor. (MW)

DMU destination boards

- **Price:** £5.40
- **Cat No:** 4DMU01-4DMU12
- **Site:** *www.pacificmodels.co.uk*
- **Era:** 5-6

NEW from Pacific Models is this comprehensive collection of first generation Diesel Multiple Unit destination blinds for 'OO' gauge. They have been designed to suit readily available ready-to-run DMUs from Bachmann and Dapol including classes 101, 105, 108, the new 117, 121 and 122.

A highlight of the new range is that the blinds are printed on self-adhesive paper. This makes it very straightforward to attach them to the units with the instructions recommending that gloss adhesive tape is overlaid before cutting out to replicate the glazing of destination blinds.

Twelve packs have been produced in total covering East Midlands, Midlands, West Midlands, Wales, East Anglia, North West, North East and Yorkshire, Scottish, South Central, South West and London local destinations. Plus, if your own preference isn't available bespoke sets are available on request from Pacific Models.

We put the blinds to the test on a Bachmann Class 108 and they were a perfect fit for the destination opening in the cab roof and similarly for the Class 105 - while each destination sheet contains an optional set for Derby Lightweight and Pressed Steel DMUs which had a wooden frame around the blind. If you are planning on using these for the new Bachmann Class 117/121 DMUs they are a little wider than the centre window, but it is simple enough to pop the body off and apply them over the top of the destination blind inside. Once the body has been refitted they will look neat and tidy behind the glass.

Superbly printed and well thought out, these new additions to the Pacific Models range will allow unique customisation of DMUs. (MW)

RAILS OF SHEFFIELD

railsofsheffield.com

HORNBY MODEL RAILWAY Awards 2019 2018

RETAILER OF THE YEAR!

Corporate Partners of RAILWAY MUSEUM

WANTED

CASH OR EXCHANGE

WE WANT **ANYTHING** MODEL RAILWAY RELATED, ANY AGE, ANY GAUGE, FROM A SINGLE ITEM TO A LIFETIME COLLECTION. DISTANCE NO OBJECT. PLEASE TELEPHONE, OR EMAIL YOUR LISTS TO SECONDHAND@RAILSOFSHEFFIELD.COM

BUY · SELL · EXCHANGE · ANY GAUGE · ANY AGE

RAILS OF SHEFFIELD VALUE YOUR SECOND HAND COLLECTION VERY HIGHLY

LOCOS - COACHES - WAGONS - TRACK-WORK - CONTROLLERS - ACCESSORIES
DIE-CAST - LORRIES - BUSES - PLANES - SOLDIERS - RAILWAYANA - AND MORE

DECEASED ESTATES - EX SHOP STOCK A SPECIALITY
FAST SERVICE WITH COMPLETE DISCRETION ASSURED

NO COLLECTION IS TOO LARGE

FOR LARGER COLLECTIONS WHERE IT IS IMPOSSIBLE TO LIST ALL ITEMS - WE CAN ARRANGE A PERSONAL VISIT

IMMEDIATE PAYMENT BY BANK TRANSFER OR CASH
OR WHY NOT TRADE YOUR ITEMS IN FOR EXCHANGE FOR AN EVEN BIGGER ALLOWANCE

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

HORNBY · BACHMANN BRANCH-LINE · MAINLINE RAILWAYS · GRAHAM FARISH · dapol · BASSETT-LOWKE · LGB · TRAINS Athearn MINIATURE · BACHMANN · Spectrum · Lenz ELEKTRONIK GMBH · VI Trains models · märklin · FLEISCHMANN · Rivarossi · Lima · Jouef · Tri-ang RAILWAYS · wrenn RAILWAYS · BRAWA LIEBE ZUM DETAIL · LIONEL · DJH MODEL LOCO · LILIPUT · HELJAN · ATLAS MODEL RAILROAD CO., INC. · KATO PRECISION RAILROAD MODELS · Roco · AIRFIX · Electrotren · FALLER · PIKO · ARNOLD · MINITRIX · TRIX · REPLICA RAILWAYS · HORNBY DUBLO · WALTHERS · DINKY TOYS · MATCHBOX · CORGI TOYS · MECCANO · SCALEXTRIC · Tri-ang MINIC Motorways · JB · EXLEY EDWARD EXLEY LTD.

WE ALSO BUY **RAILWAYANA** · SIGNAGE AND TOTEMS · **AND MORE...**

Telephone our Second Hand team on: (0114) 255 1436 or email: secondhand@railsofsheffield.com - Ref: HM2020

21-29 Chesterfield Road - Sheffield - South Yorkshire - S8 0RL - UK - Tel: (0114) 255 1436 - Fax: (0114) 255 5982

Email: info@railsofsheffield.com Web: railsofsheffield.com railsofsheffield railsofsheffield railssheffield railsofsheffield

RAILS OF SHEFFIELD

railsofsheffield.com

HORNBY MODEL RAILWAY Awards 2019 | HORNBY MODEL RAILWAY Awards 2018

RETAILER OF THE YEAR!

Corporate Partners of RAILWAY MUSEUM

WE VALUE YOUR PRE-OWNED & SECOND HAND MODEL COLLECTION VERY HIGHLY!!

ALL BRANDS

FOR CASH

CONTACT US
get in touch by email, phone or post with your list of items

STEP 01

WE MAKE AN OFFER
our friendly, experienced staff review your list and make an honest valuation and offer

STEP 02

BRING, SEND OR COLLECT
either visit the shop, send us your items, or for larger collections we will arrange collection for you

STEP 03

PAYMENT MADE!
we confirm the offer and make a fast, secure payment via your choice of payment method

STEP 04

TOP GUARANTEED PRICES PAID

FAMILY BUSINESS FRIENDLY SERVICE

FOR MORE DETAILS see our website: railsofsheffield.com/wanted

FULL COLLECTIONS PURCHASED
UK & WORLDWIDE COLLECTION AVAILABLE

BUY · SELL · EXCHANGE · ANY GAUGE · ANY AGE

TELEPHONE OUR SECOND HAND TEAM ON: (0114) 255 1436
OR EMAIL: SECONDHAND@RAILSOFSHEFFIELD.COM

21-29 Chesterfield Road - Sheffield - South Yorkshire - S8 0RL - UK - Tel: (0114) 255 1436 - Fax: (0114) 255 5982

Email: info@railsofsheffield.com Web: railsofsheffield.com railsofsheffield railsofsheffield railssheffield railsofsheffield

RAILS LIMITED FOUNDED IN SHEFFIELD

railsofsheffield.com
/exclusive

HORNBY MODEL RAILWAY Awards 2019 2018
RETAILER OF THE YEAR!

Corporate Partners of
RAILWAY MUSEUM

NEW
EXCLUSIVE
TO RAILS

WAINWRIGHT D CLASS

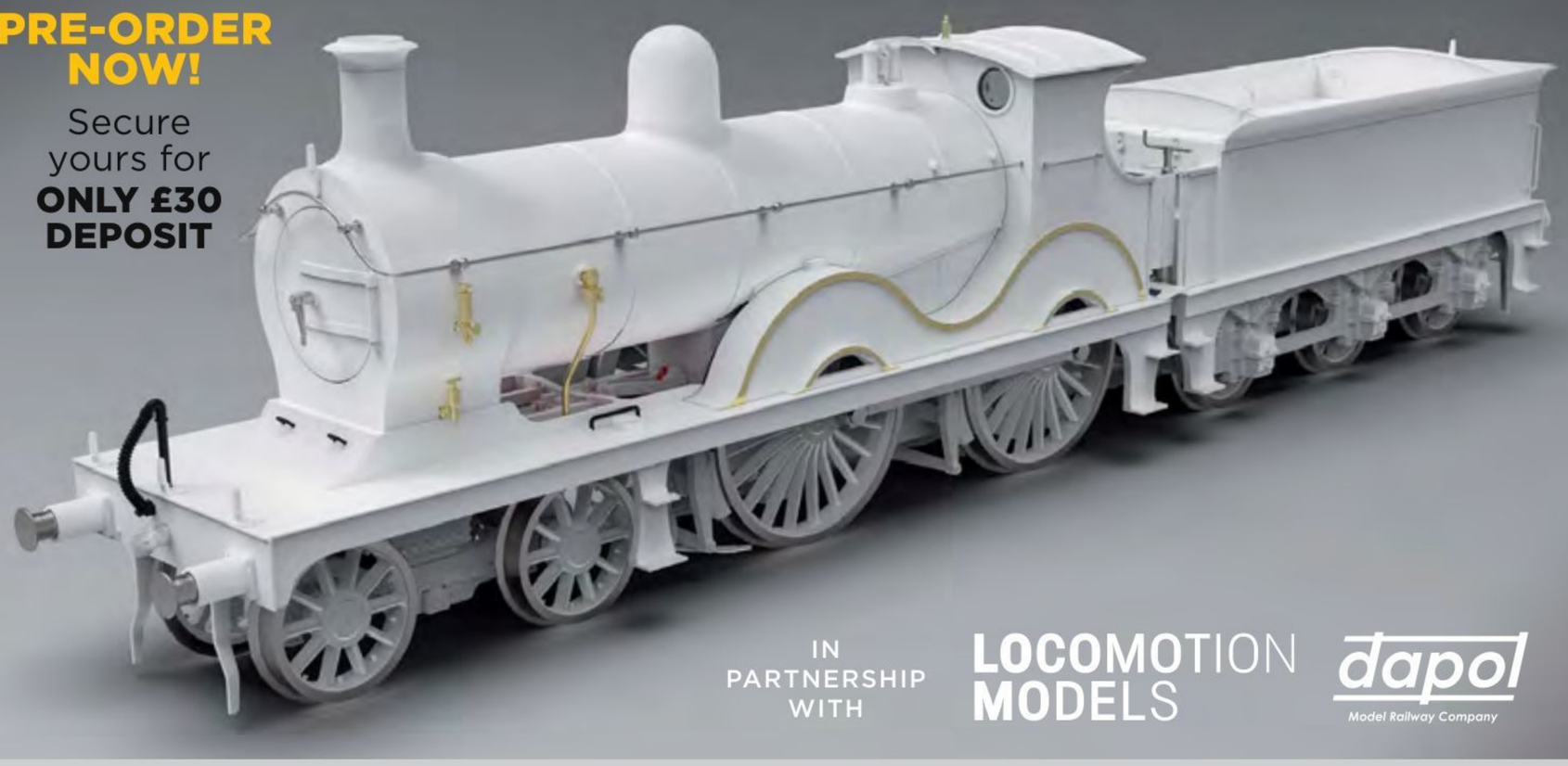
OO GAUGE MODEL

6 VERSIONS AVAILABLE

SECR Green No.488 (Pre Grouping Silk Finish)
Southern Lined Maunsell Olive Green No.1730
BR Sunshine Black No.31731
BR Lined Black Early Crest No.31574
SECR Grey (Scraped Beading) No.726
Southern Sunshine No.1734

SEE WEBSITE FOR MORE DETAILS

PRE-ORDER NOW!
Secure yours for
ONLY £30 DEPOSIT



MODEL FEATURES INCLUDE:
New 'pinless' drawbar between locomotive and tender
Firebox flicker / Next 18 DCC Socket
Pull out PCB / Solderless Speaker
Optional fit bass reflex speaker in tender
NEM coupling pockets

IN PARTNERSHIP WITH LOCOMOTION MODELS dapol Model Railway Company

PRODUCED BY accurascale

CLASS 37/6 37610

NEW
EXCLUSIVE
SEE WEBSITE

HNRC BR BLUE DIESEL LOCOMOTIVE
(WRAP AROUND YELLOW NOSES)

OO GAUGE MODEL

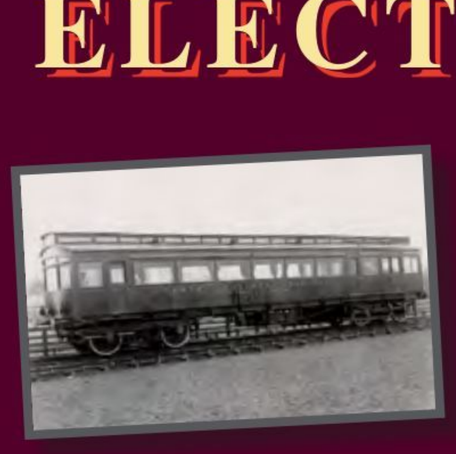
EXPECTED Q1 2021

DCC Ready £169.99 DCC Sound Fitted £259.99
PRE-ORDER NOW! ONLY £30 DEPOSIT

— NORTH EASTERN RAILWAY —

ELECTRIC AUTOCAR

OO GAUGE MODEL



IN ASSOCIATION WITH HELJAN

Secure yours for
ONLY £30 DEPOSIT

PRE-ORDER PRICE £199.95

3 VERSIONS AVAILABLE
North Eastern Railway red/cream No. 3170 (1904-23)
North Eastern Railway red/cream No. 3171 (1904-30)
LNER brown No. 3170 (1923-31)

21-29 Chesterfield Road - Sheffield - South Yorkshire - S8 0RL - UK - Tel: (0114) 255 1436 - Fax: (0114) 255 5982

Email: info@railsofsheffield.com Web: railsofsheffield.com railsofsheffield railsofsheffield railsheffield railsofsheffield

RAILS LIMITED

railsofsheffield.com
/exclusive

HORNBY MODEL RAILWAY Awards 2019 2018
RETAILER OF THE YEAR!

Corporate Partners of
RAILWAY MUSEUM

OO GAUGE MODEL

AVAILABLE NOW! £279.50

IN ASSOCIATION WITH HELJAN

SEE WEBSITE FOR MORE DETAILS

IN STOCK NOW!

NEW EXCLUSIVE TO RAILS LIMITED EDITION

DRS Minimodal CLASS 33/0 TWIN PACK

No's. Class 33 025 / Class 33 030
An updated and improved version of Heljan's popular OO Gauge Class 33/0 diesel, featuring later locomotives fitted with high intensity headlights.

MODEL FEATURES INCLUDE:
Square headlight variant / LED lighting
Sprung buffers / Improved radiator grilles

NEW EXCLUSIVE TO RAILS

LIMITED EDITION CLASS 92's

PRODUCED BY accurascale

CLASS 92 023 'RAVEL'
SNCF Grey Electric Locomotive
See website for more details

© Steve Jones

DCC Ready **£159.99**
DCC Sound Fitted **£249.99**

Secure yours for
***ONLY* £30 DEPOSIT**

PRE-ORDER NOW!

OO GAUGE MODEL

Each model will come with a numbered certificate and a unique box

EXPECTED Q4 2020

CLASS 92 015 'YIWU-LONDON TRAIN'
DB Schenker Electric Locomotive
"The Silk Road Train"

© Liam Gregory

BLA - THREE PACK VARIATIONS AVAILABLE

COMING SOON†

BLA BOGIE STEEL WAGONS
RAILFREIGHT

Each pack contains three wagons each with a unique running number variations and other livery elements

BBA - TWO PACK VARIATIONS AVAILABLE

BBA BOGIE STEEL WAGONS
RAILFREIGHT

Each pack contains three wagons each with a unique running number variations and other livery elements

EXCLUSIVE TO RAILS PRE-ORDER NOW!
SEE WEBSITE FOR MORE DETAILS AND THE FULL RANGE

SET OF THREE **£135**

OO GAUGE MODEL

CAVALEX Models

21-29 Chesterfield Road - Sheffield - South Yorkshire - S8 0RL - UK - Tel: (0114) 255 1436 - Fax: (0114) 255 5982

Email: info@railsofsheffield.com Web: railsofsheffield.com railsofsheffield railsofsheffield railsshеffield railsofsheffield

† PLEASE SEE OUR WEBSITE FOR AVAILABILITY

RAILS OF SHEFFIELD

railsofsheffield.com

HORNBY MODEL RAILWAY Awards 2019 | HORNBY MODEL RAILWAY Awards 2018

RETAILER OF THE YEAR!

Corporate Partners of RAILWAY MUSEUM

HORNBY NEW 2020 RANGE - NOW LISTED ON OUR WEBSITE

BARGAIN OO GAUGE — HELJAN

GWR 1361 CLASS & 1366 CLASS TANK LOCOMOTIVES ~~RRP: £159.95~~ HUGE SAVINGS

1303	GWR 1361 CLASS 0-6-0 TANK LOCOMOTIVE NO.1365 IN BR BLACK EARLY LION & WHEEL INSIGNIA	£79.50
1304	GWR 1361 CLASS 0-6-0 TANK LOCOMOTIVE NO.1363 IN BR BLACK LATE LION & WHEEL INSIGNIA	£79.50

BARGAIN O GAUGE — HELJAN

CLASS 128 DPU

~~RRP: £599~~ OFFER FURTHER REDUCTIONS! NOW FROM: £295.00 EACH

8950	CLASS 128 DPU BR BLUE (FULL YELLOW ENDS) LOCOMOTIVE M55995	£225.00
8951	CLASS 128 DPU ROYAL MAIL LETTERS LOCOMOTIVE 55993	£225.00

CLASS 05 SHUNTERS

~~RRP: £395~~ OFFER FURTHER REDUCTIONS! NOW FROM: £195.00 EACH

2590	HUNSLET CLASS 05 BR GREEN (NO WASP STRIPES) LOCOMOTIVE	£175.00
2591	HUNSLET CLASS 05 BR GREEN WITH WASP STRIPES (LATE) LOCOMOTIVE	£175.00
2592	HUNSLET CLASS 05 BR GREEN WITH WASP STRIPES (EARLY) LOCOMOTIVE	£175.00

AMAZING OFFERS ON GAUGEMASTER

D	TWIN TRACK POWER CASED CONTROLLER	£94.50
Q	FOUR TRACK CASED CONTROLLER	£168.50
DCC02	PRODIGY ADVANCE PACKAGE DIGITAL CONTROLLER	£272.50

N GAUGE — Sonic Models — Revolution trains

NEW LIVERIES AND NUMBERS ADDED TO SONIC 56xx LINE-UP

N-gauge newcomer Sonic Models is offering additional liveries and new numbers to the forthcoming **56xx (GWR/BR9W) 0-6-2 tank locomotive**.

See website for full details. Expected Q3

PRE-ORDER NOW! £109.95 **12 VERSIONS AVAILABLE**

GREAT PRICES ON PECO

SL-100	25 YARDS CODE 100 WOODEN SLEEPER TYPE NICKEL SILVER FLEXIBLE TRACK	£74.50
SL-100F	25 YARDS NICKEL SILVER FINESCALE FLEXIBLE TRACK WOODEN SLEEPER	£79.50
SL-102F	25 YARDS FINESCALE CONCRETE SLEEPER TYPE NICKEL SILVER FLEXIBLE TRACK	£87.00
SL-91/E91/92/E92	SMALL POINTS RIGHT & LEFT HAND INSUL OR ELECTROFROG	£11.50 each
SL-95/E95/96/E96	MEDIUM POINTS RIGHT & LEFT HAND INSUL OR ELECTROFROG	£11.50 each
SL-88/E88/89/E89	LARGE POINTS RIGHT & LEFT HAND INSUL OR ELECTROFROG	£13.50 each
PL10/PL10X6	PL10 POINT MOTOR (SWITCH MACHINE) INDIVIDUAL OR 6 PACK	£6.50/£37.50
SL-300	25 YARDS CODE 80 NICKLE SILVER FLEXIBLE TRACK WITH WOODEN TYPE SLEEPERS	£70.00
SL-300F	30 YARDS CODE 55 FINESCALE N/S FLEXIBLE TRACK WOODEN SLEEPER	£94.50
SL-395/96-E95/E96	MEDIUM POINTS RIGHT & LEFT HAND INSUL OR ELECTROFROG	£10.50 each
SL-U395F/U96F	MEDIUM RIGHT HAND TURNOUT UNIFROG CODE 55	£11.50 each
SL-388/389/E388/E389	LARGE POINT ELECTROFROG RIGHT & LEFT HAND POINTS	£11.50 each
SL-700BH	12 YARDS O GAUGE FLEXIBLE NICKLE SILVER TRACK (BULLHEAD) WOODEN SLEEPER	£80.00
SL-700FB	12 YARDS O GAUGE UNIVERSAL FINE CODE 143 WOODEN SLEEPER	£80.00
SL-E791/792BH	MEDIUM RADIUS RIGHT & LEFT HAND POINTS WITH BULLHEAD RAIL	£46.00 each
SL-E791FB/E792FB	MEDIUM RADIUS RIGHT AND LEFT NICKEL SILVER ELECTROFROG POINT (CODE 143 FLAT BOTTOM)	£48.50 each

ALSO STOCKED AT BARGAIN PRICES!

ALL the big brands

Hattons, OXFORD, Electrotren, CORGI, Jouef, REALTRACK, RATIO, SCALEXTRIC, LEGOMANBIFFO HIGH QUALITY SOUNDS, MATHIESON, Rivarossi, LILIPUT, HORNBY, HORNBY RAILROAD, GRAHAM FARISH by BACHMANN, HELJAN, dapol, GAUGEMASTER, RAPIDO TRAINS INC, DJ, PECO, Lok Sound, WOODLAND SCENICS, METCALFE, HARBURN HAMLET, Lenz ELEKTRONIK GMBH, K&M TREES, model scene, Exclusive First Editions, WILLS·KITS, KATO PRECISION RAILROAD MODELS

SEE OUR WEBSITE FOR FULL LISTINGS

***INCLUDING* SPECIAL OFFERS & GREAT DEALS!!**

www.railsofsheffield.com

PRICING POLICY FOR IN STOCK AND AVAILABLE ITEMS: The price advertised on Rails of Sheffield website will be the price charged at the time of the order being processed. This excludes errors in pricing (E & OE) in the event of an error with a price you will be contacted prior to the order being processed and given the option to accept the correct price or cancel the order.

PLEASE NOTE: All items currently in stock are despatched immediately. Forthcoming releases will be despatched immediately upon release. If your order contains both current items and forthcoming releases then these will be despatched separately and subject to separate delivery charges.

RAILS TV & SOCIAL MEDIA...

Follow and *like us* on:

YouTube railsofsheffield | railsofsheffield | railssheffield | railsofsheffield

ebay RAILS ON EBAY 2 STORES, 100'S OF ITEMS ADDED DAILY...

RAILS-SHEFFIELD Ebay store!

RAILS-VAULT Ebay store!

SHIPPING COSTS: ROYAL MAIL 48 HOUR TRACKED £4.00: Royal Mail aim to deliver within 2 days of dispatch including Saturdays (this is not a guaranteed service and parcels can take longer to arrive).

ROYAL MAIL 24 HOUR TRACKED £5.00: Royal Mail aim to deliver within 1 day of dispatch including Saturdays (this is not a guaranteed service and parcels can take longer to arrive).

SPECIAL DELIVERY £8.50: Guaranteed delivery by 1pm the next day Monday to Saturday. With full track and trace system, your parcel is delivered speedily and securely (orders must be placed by 2pm to guarantee same day dispatch).

PARCEL FORCE COURIER SERVICE £7.50: Next day delivery for much of the UK, including Saturdays. Full track and trace system. Used for parcels over 1.8kg without packing or if you would like a speedy secure delivery of your parcel. This excludes the following post codes BT, JE, GY, IM, KW, IV, PA and PO30- 44, KA27-28, PH17-26, PH49-50 and ZE. The cost for these postcodes is £12.00 and will be delivered within two to three working days (orders must be placed by 3pm to guarantee same day dispatch).

WORLDWIDE POSTAGE: For all orders outside the UK, postage will be charged at cost, based on the weight and size of the parcel.

21-29 Chesterfield Road - Sheffield - South Yorkshire - S8 0RL - UK - Tel: (0114) 255 1436 - Fax: (0114) 255 5982

Email: info@railsofsheffield.com Web: railsofsheffield.com railsofsheffield railsofsheffield railsshеffield railsofsheffield

WILLIAMROWLAND

William Rowland offers a wide range of high quality popular low melting point and casting alloys as well as bespoke melts to your specific requirements.

Casting Alloys

Solder Wires

Blow Pipe Solders

WR ALLOYS AND SOLDERS

www.williamrowlandshop.com

LACY SCOTT & KNIGHT

150 YEARS est. 1869

Chartered Surveyors
Land & Estate Agents
Auctioneers & Valuers

Bury St Edmunds
01284 748600
www.lsk.co.uk

ENTRIES INVITED

Toys & Collectors Models

27th June | 22nd August | 14th November

Sales include Live Steam and Sundry Related Items, All Gauges of Model Railway & Railwayana, Diecast Models Incl. Corgi, Dinky, Matchbox, Tinplate and Triang, Juvenalia, Britains & Plastic Kits etc.

Entries Close four weeks prior to sale

Enquiries: Oliver Leggett
oleggett@lsk.co.uk or 01284 748623

Strong foundations. Exciting future

DMG technical limited

ELECTECH

Formerly Andy Lowe Electronics

DMG technical limited

SELF ADHESIVE CABLE CLIPS
6mm...**7p each**
10mm...**11p each**

HEATSHRINK SLEEVING
1.2mm - 9.5mm
1.2m prices start from **£1.20**

CABLE TIES AND BASES
From **£1.30**
per 100

LAYOUT WIRING

Colours: rd, yl, bl, bk, wh, gn, pu, or, gy, pk, br

					10m	100m
EW07/0.2	Multistrand wire	1.4amp	7 strands of	0.2mm wire	£1.60	£10.50
EW16/0.2	Multistrand wire	3amp	16 strands of	0.2mm wire	£2.30	£17.99
EW24/0.2	Multistrand wire	5amp	24 strands of	0.2mm wire	£3.29	£26.25
EW32/0.2	Multistrand wire	6amp	32 strands of	0.2mm wire	£4.29	£36.00

GRAIN OF WHEAT BULBS

GWB 3mm Dia x 10mm 80ma with 120mm insulated leads only **40p ea,**

20+ only 35p

Special offer 100 clear £30

LED'S

LD14	12v 3mm rd, gn, yl	40p
LD32	As above in white	40p
LD15	12v 5mm rd, gn, yl	40p
LD11	1.8mm LED rd, gn, yl, amber	30p
LD31	As above in white	70p
	Mounting clips 3 & 5mm	8p

MIN TOGGLE SWITCHES

SP/DP single/double pole, ST/DT single/double throw

	each 1+	20+
SMT1 on/off SPST	£1.20	£1.12
SMT2 on/on SPDT	£1.20	£1.12
SMT3 on-off-on SPDT	£1.25	£1.12
SMT4 on/off or on/on	£1.30	£1.17
SMT5 on-off-on DPDT	£1.40	£1.22
SMT6 [on]-off-[on] SPDT	£1.60	£1.30
SMT7 [on]-off-[on] DPDT	£1.90	£1.50

Lever covers **20p** • CC5 connectors **8p each**

TINY CONNECTORS

Used with our tiny connectors are ideal for joining engine to tender for extra pick up:
CMP100 2 pin 3/8" x 3/16"
CMP101 3 pin
CMP102 4 pin.
Double rows are available.

1+ 60p pr **10+ 55p pr** **25+ 50p pr**

DIN PLUGS & SOCKETS

PLUG		SOCKET	
CDP9	3 pin 65p	CDS9	3 pin 65p
CDP3	4 pin 65p	CDS5	4 pin 65p
CDP6	5 pin 180° 70p	CDS5	5 pin 180° 65p
CDP3	5 pin 240° 70p	CDS5	5 pin 240° 65p
CDP3	6 pin 75p	CDS5	6 pin 65p
CDP3	7 pin 80p	CDS5	7 pin 65p
CDP3	8 pin 85p	CDS5	8 pin 65p

TAG BOARDS & TERMINAL BLOCKS

CTB2	Mini Tag Board 2 rows x 18 117mm x 38mm	£2.45
CTS1	Standard Tag Strip 28 way x 267mm	£2.50
CTS2	Mini Tag Strip 28 way x 194mm	£1.90
CTB4	Screw Terminal Block 3amp	80p
CTB5	As above 5amp	95p
CTB6	12-way Plug & Socket 6amp	£5.50
CTB10	As above, but 10amp	£6.95

PRODUCTS FOR ALL GAUGES
- Diodes
- Relays
- Capacitors
- Sensors

All at great prices
Phone for advice.

See our website for details of SPECIAL OFFERS

www.dmgelectech.co.uk

FAST EFFICIENT DISPATCH P&P £2.99

DMG Technical Ltd - Tel: **029 20813136**

Unit 10, Glan-Y-Llyn Ind Est, Cardiff Road, Taffs Well, CF15 7JD

Email: **sales@dmgelectech.co.uk**

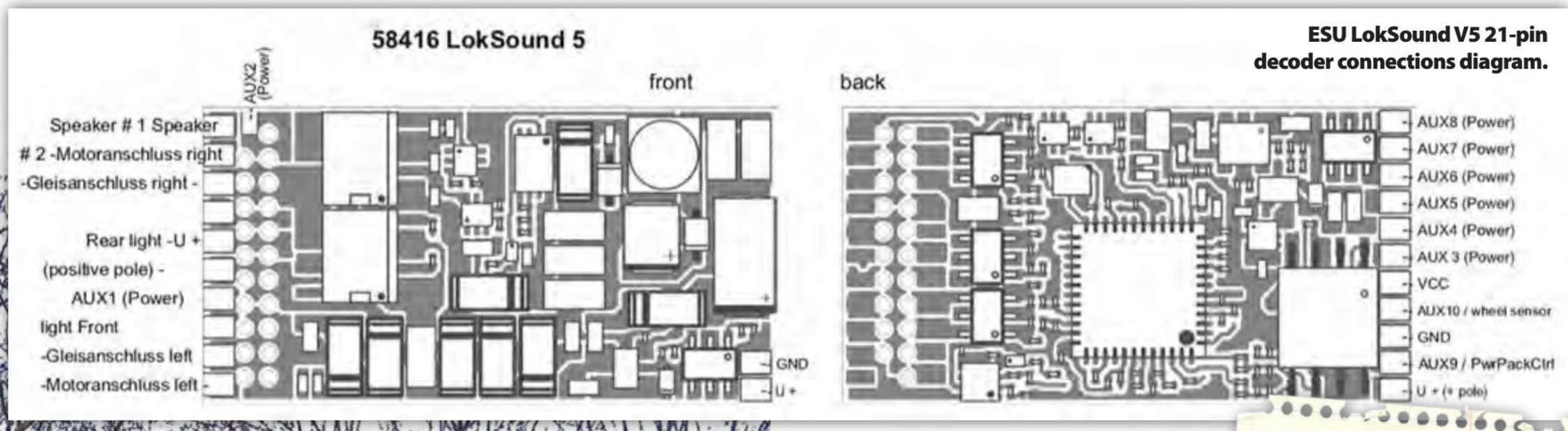
VISA MasterCard PayPal Maestro

UNDERGROUND SOUND

The London Transport S Stock was hugely popular when it was released in 2015 and now DC Kits and Legomanbiffo have produced a new ESU sound decoder twin pack to bring these units to life. **MIKE WILD** explores its potential and shows how he went about upgrading a four-car set with additional functions.

The Bombardier built S Stock units are now the sole mode of transport on London Underground's sub-surface lines. On January 22 2019 an S7 District Line set pauses at Earls Court. Mike Wild.

GO ONLINE!
VISIT WWW.KEYMODELWORLD.COM TO SEE THIS IN ACTION



ESU LokSound V5 21-pin decoder connections diagram.

THE London Underground network has always fascinated me. Anytime I venture to the capital it's a 'must' part of my day to take the escalators down into the subterranean world.

The latest generation trains have changed the experience on the sub-surface lines. The fleet consists of two types – S7 units are seven coaches long and operate on the Circle, District and Hammersmith & City routes while eight-car S8 formations run on the Metropolitan line. In total there are 1,395 cars formed into 191 trains which cost Transport for London £1.5billion.

Naturally the arrival of the S Stock saw the end of older generation units with the A60, A62, C69, C77 and D78 units all being withdrawn as a result of the new trains entering service. However, the new generation brings a cleaner and more efficient environment to the underground's sub-surface lines.

The London Transport Museum commissioned this 'OO' gauge model of the S Stock from Bachmann and it was released in 2015 as a four-car pack while additional coaches were available to extend the rake as desired. All have since sold out, but second-hand versions do come up from time to time, though they are tending to command high prices. Features of the model include twin motors, one in each driving car, directional head and taillights, a 21-pin DCC decoder socket in each driving car and provision for the addition of a 23mm round speaker by removal of part of the seating unit. The couplings are similar to power couplings produced by Bachmann for its Blue Pullman unit but, as there are no inter-car electrical connections on the S Stock, these only provide the coupling function.

Legomanbiffo has been developing the sound profile for these trains for a little while and the result is a sophisticated decoder which is highly comprehensive too – in fact it has the capacity for a much larger number of lighting functions than those built into the unit. It is loaded onto the latest generation ESU LokSound 5 decoder with our chips being a pair of 21-pin types which were labelled for vehicles one and four respectively.

Features of the decoder include a full suite of running sounds, whistle, brakes, door opening sounds, 'Mind the Gap' announcement, customisable train announcements and more. In addition, the decoder has been mapped to allow a full range of lighting functions to be added to the unit including arc flash, door opening lights, cab lights and carriage lights.

To make use of all these functions takes care, planning and a steady hand as it requires wires to be soldered direct to the solder pads on the 21-pin decoder as the circuit board in the unit is limited in its capabilities. We stopped short of adding the door open lights, but added the arc flash, cab lights and carriage interior lights as outlined in the step by step guide. We've also included the ESU decoder diagram highlighting the connection points we used in the project.

Before making any connections, it is important to ensure you have the right components to hand. You will need decoder wire, bright white LEDs for the arc flash, 1k ohm resistors to protect all LEDs and lighting strips for the roof.

The step by step guide here guides you through the process of installing the decoder, speaker and additional lighting functions as we did it, but we recommend studying the ESU 21-pin decoder diagram before starting any work. HM

TOOLS

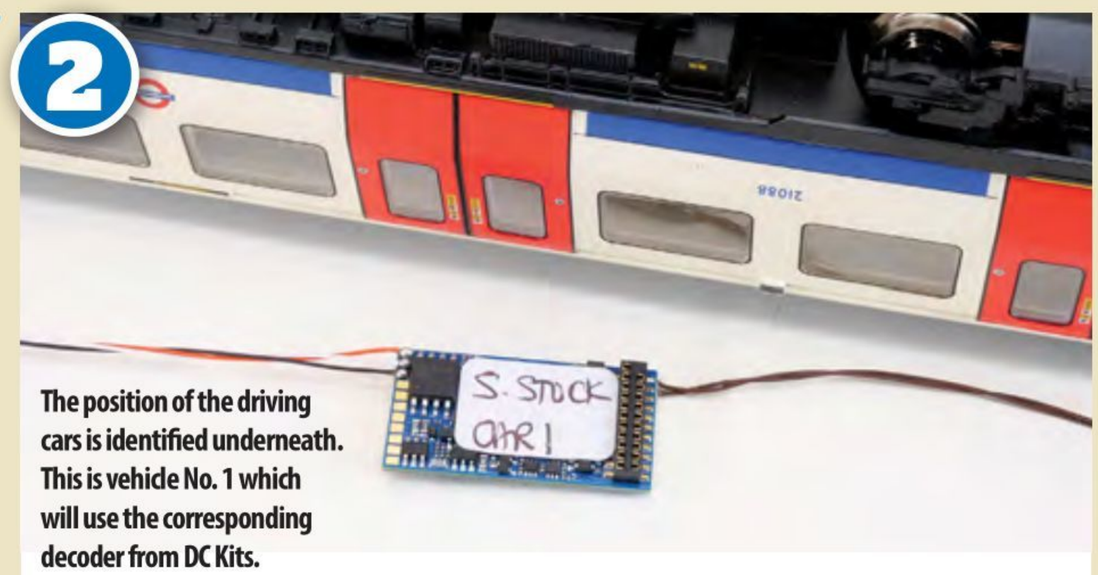
- Crosshead screwdriver
- Small scissors
- Tweezers
- Wire strippers
- Soldering iron and solder
- Pin vice and 2.5mm drill bit
- Craft knife
- Black Tack
- Insulation tape
- Superglue

www.keymodelworld.com

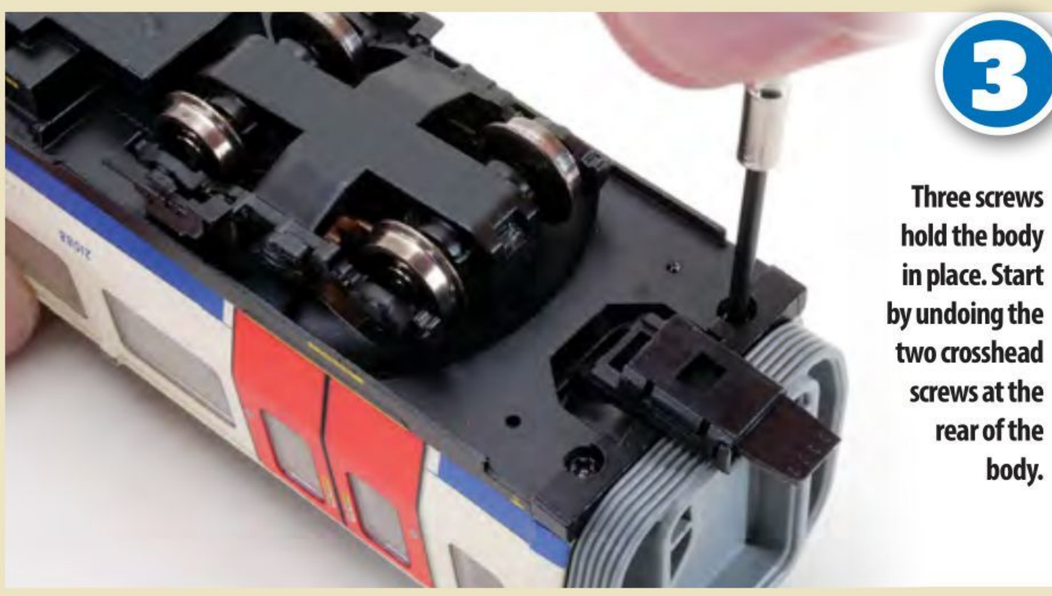
STEP BY STEP

INSTALLING SOUND AND LIGHTING IN S STOCK UNITS

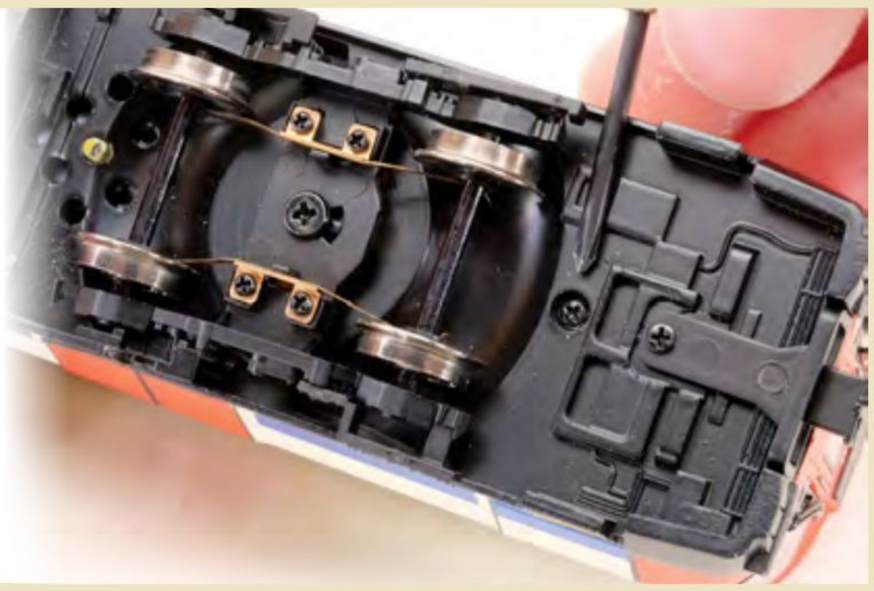
1 The S Stock unit is formed of two halves – each has a driving car with a 21-pin decoder socket and space for a speaker plus a trailer car. For this project we found it simplest to work on each half separately using the one decoder in each driving car to power the sound and lighting functions for each half of the train.



2 The position of the driving cars is identified underneath. This is vehicle No. 1 which will use the corresponding decoder from DC Kits.



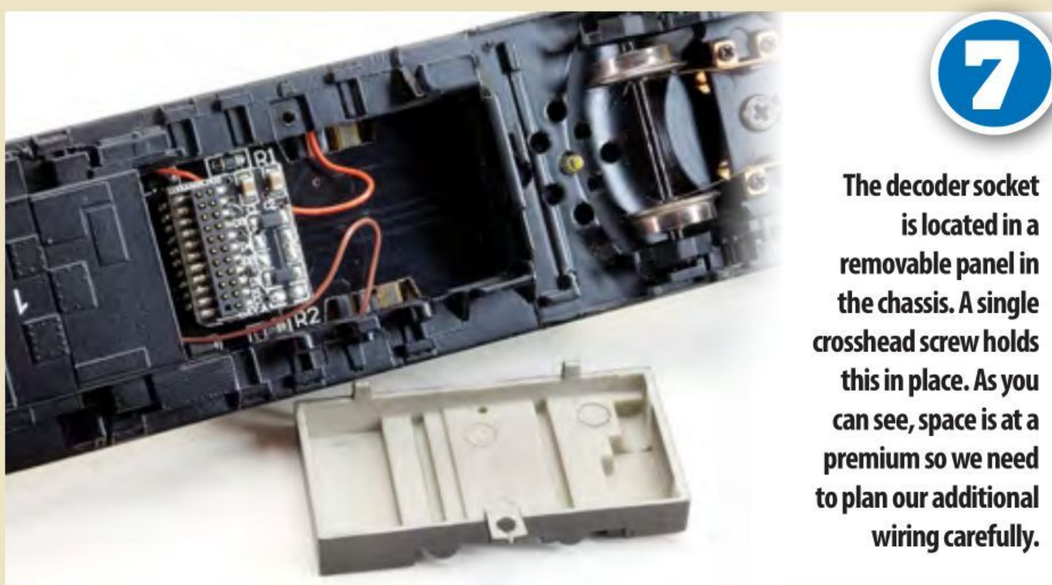
3 Three screws hold the body in place. Start by undoing the two crosshead screws at the rear of the body.



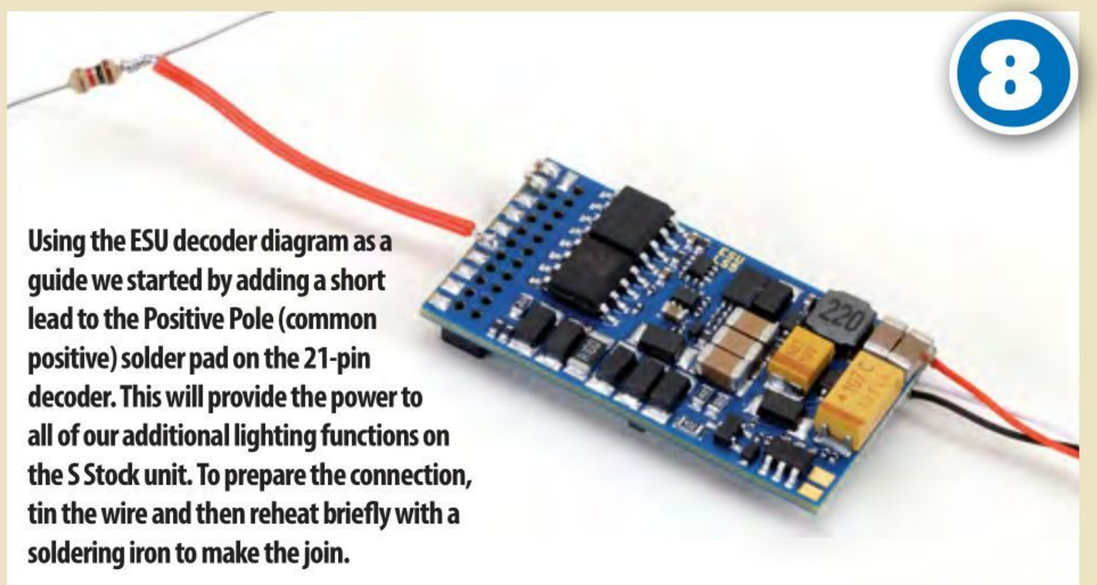
4 The third screw is located centrally at the front of the driving car ahead of the bogie. It has a smaller head than the rear two.

5 The body is clip fitted to the grey plastic interior moulding. Spread the base of the body a little to release from the clips and then lift it clear of the chassis.

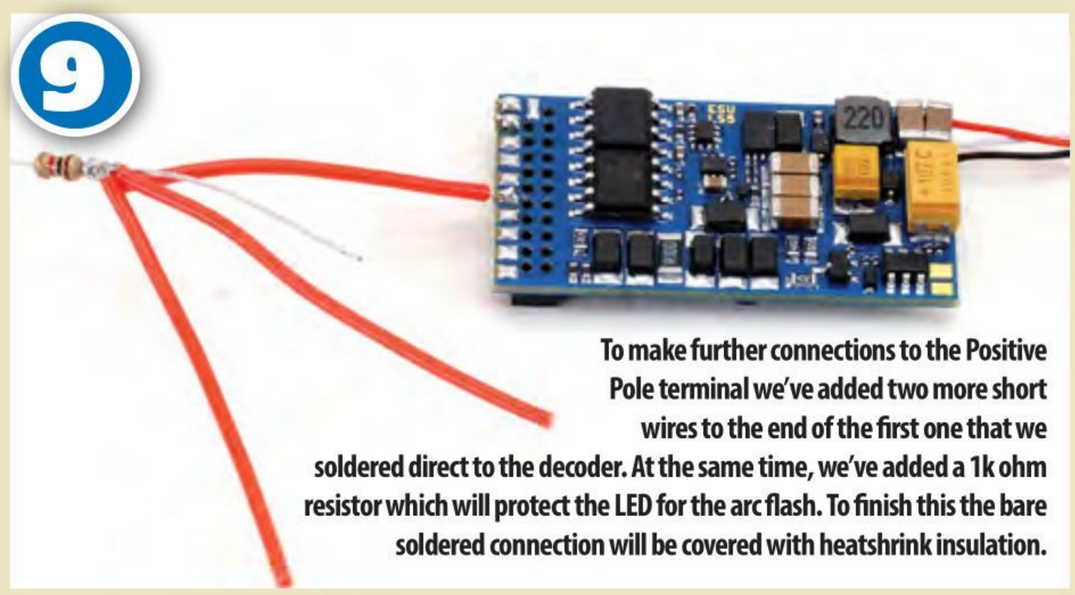
6 The centre cars are simpler to dismantle as the bodies are a simple clip fit. We released ours by hooking a fingernail under the edge to ease out the body until it released.



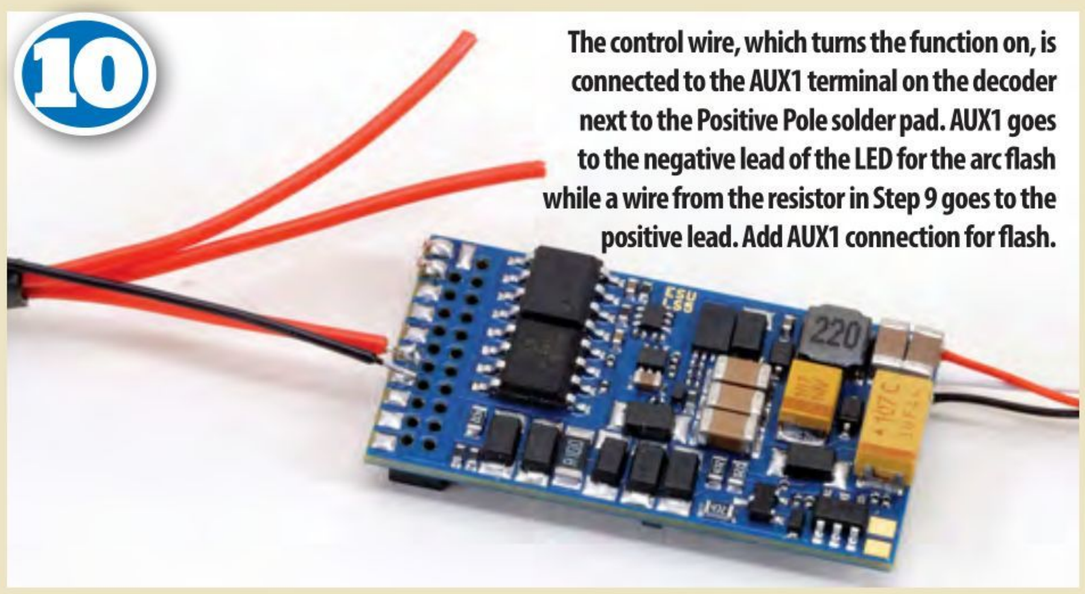
7 The decoder socket is located in a removable panel in the chassis. A single crosshead screw holds this in place. As you can see, space is at a premium so we need to plan our additional wiring carefully.



8 Using the ESU decoder diagram as a guide we started by adding a short lead to the Positive Pole (common positive) solder pad on the 21-pin decoder. This will provide the power to all of our additional lighting functions on the S Stock unit. To prepare the connection, tin the wire and then reheat briefly with a soldering iron to make the join.

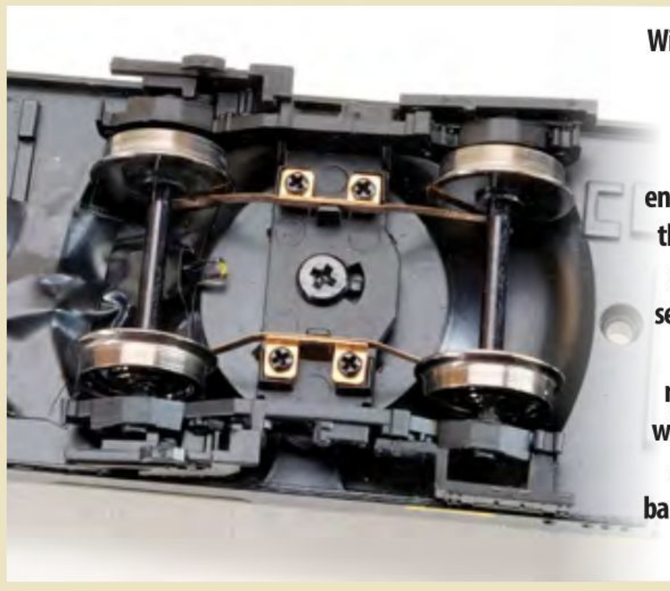


9 To make further connections to the Positive Pole terminal we've added two more short wires to the end of the first one that we soldered direct to the decoder. At the same time, we've added a 1k ohm resistor which will protect the LED for the arc flash. To finish this the bare soldered connection will be covered with heatshrink insulation.



10 The control wire, which turns the function on, is connected to the AUX1 terminal on the decoder next to the Positive Pole solder pad. AUX1 goes to the negative lead of the LED for the arc flash while a wire from the resistor in Step 9 goes to the positive lead. Add AUX1 connection for flash.

Intermediate
Beginner SKILL LEVEL Advanced



11

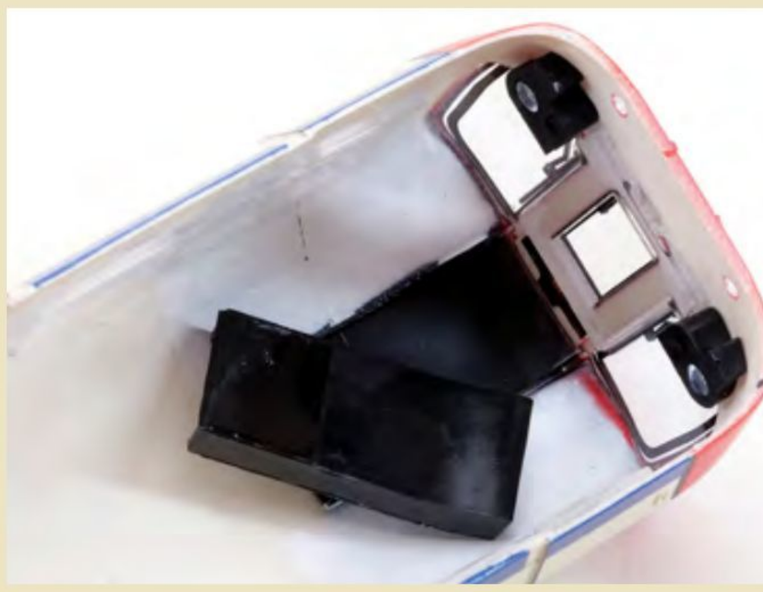
With the wires connected to the LED, we routed them carefully out of one corner of the decoder enclosure and positioned the LED above the leading bogie. Insulation tape was added to the metal chassis before we secured the LED in place with the same medium. This keeps the installation neat. An alternative would be to use a white SMD LED, though once the unit is on the track our standard 3mm LED is barely noticeable but provides plenty of light when the arc flash operates.

TECHNICAL DETAILS	
LONDON TRANSPORT MUSEUM S STOCK	
Manufacturer:	*www.ltmuseumshop.co.uk*
First released:	2015 (out of production) – HM99
Description:	Transport for London S Stock unit
Gauge:	'OO', 16.5mm
Scale:	4mm:1ft
Length (full train):	908mm (four-car train)
Price:	£280 (when released in 2015)
Era:	11
Couplings:	Unique couplings between cars
DCC:	DCC ready, 21-pin decoder socket (x2)
Speaker space:	23mm round (x2)
Exterior lights:	Directional head and taillights
Interior lights:	None
Motor type:	Five-pole (one per driving car)
Flywheel:	One per motor
Purpose:	London Underground sub-surface lines

12

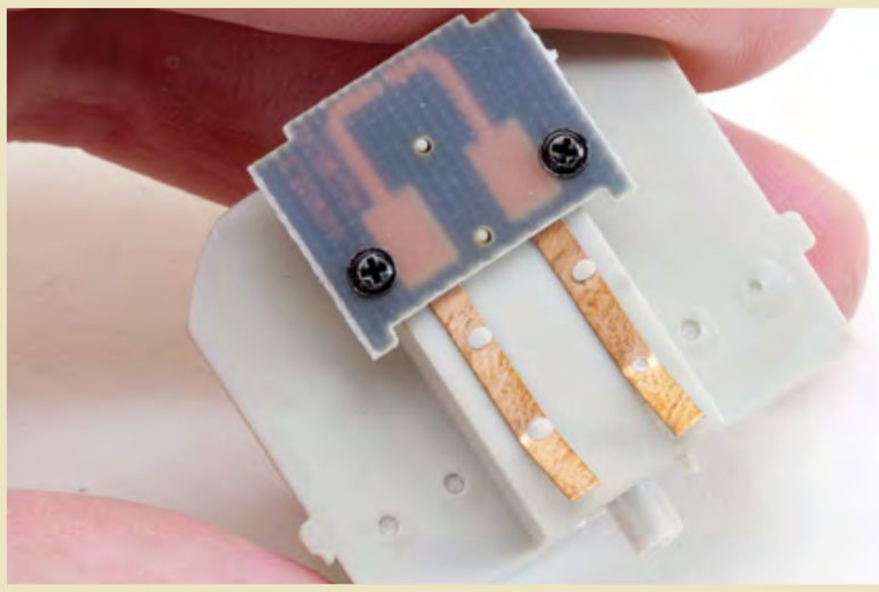
Next we turned our attention to the cab and illuminating it. The cab interior moulding dip is fitted to the glazing unit and can be prized out carefully. We added a crew figure to the driving seat by removing its legs.

WHAT WE USED		
PRODUCT	**SUPPLIER**	**CAT NO.**
S Stock sound decoders, pair	*www.dckits-devideos.co.uk*	LB-Metropolitan S Stock
200mm LED light strips	*www.kyteslights.com*	Flexi-LED strip 9-16v DC
Bright white LEDs	*www.kyteslights.com*	1.8mm ultra bright LEDs



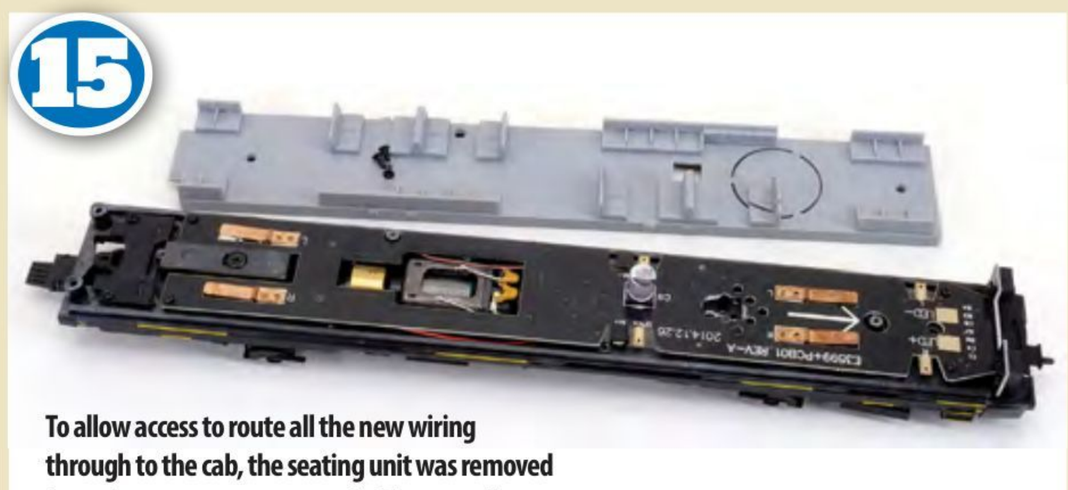
13

We considered adding an extra LED into the cab roof, but it would have been visible from the outside. We found that the LED for the destination blind didn't really do its job prominently, so we popped off the light channel for it to use the LED as the cab light.



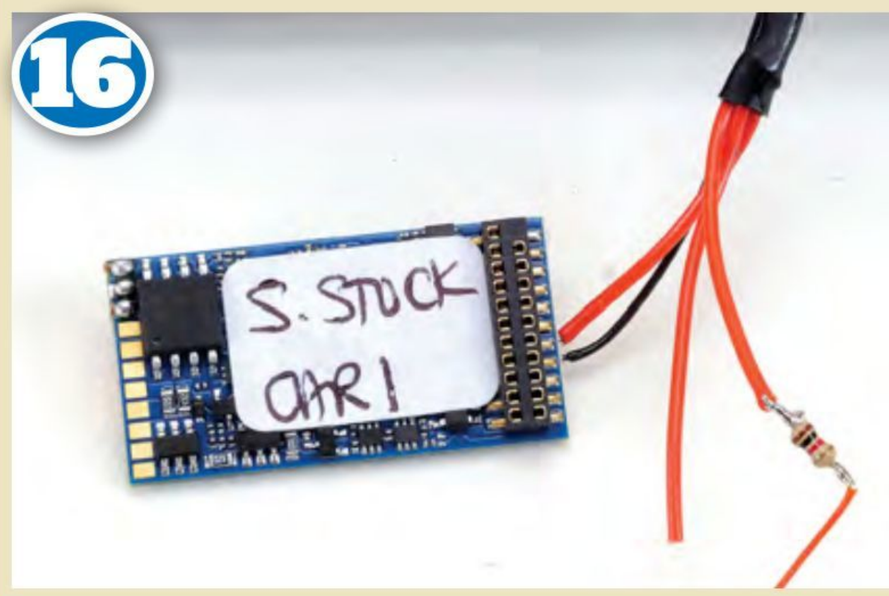
14

To make use of the copper strips to the cab light LED, we cut the bottom 6mm off so they didn't touch the original contacts.



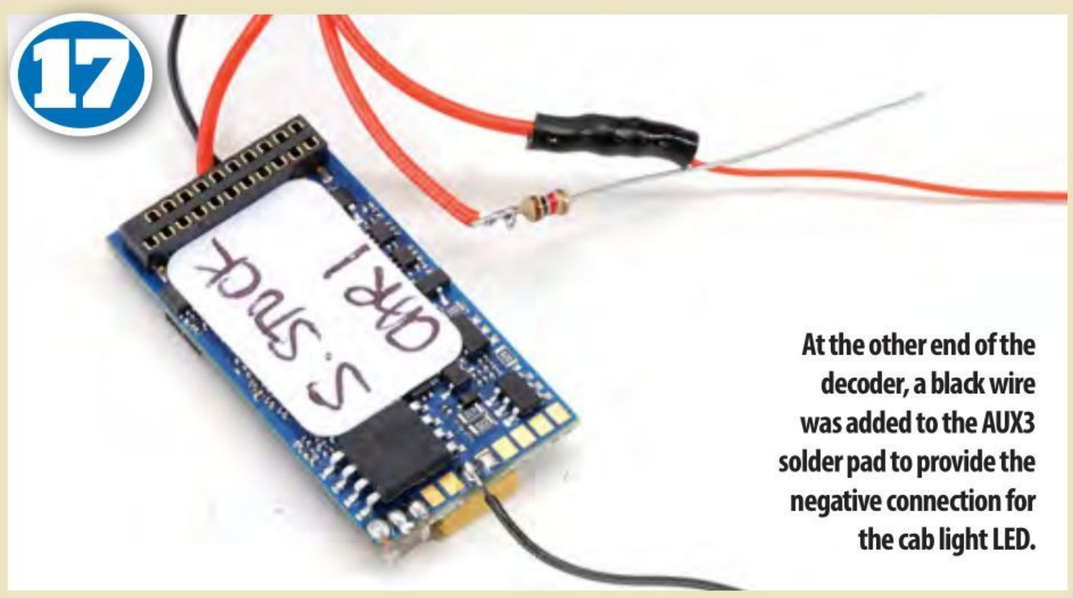
15

To allow access to route all the new wiring through to the cab, the seating unit was removed from the power car temporarily. Three small crosshead screws hold the unit in place.



16

A second resistor was added to the red cables from the Positive Pole from the decoder to power the cab light.



17

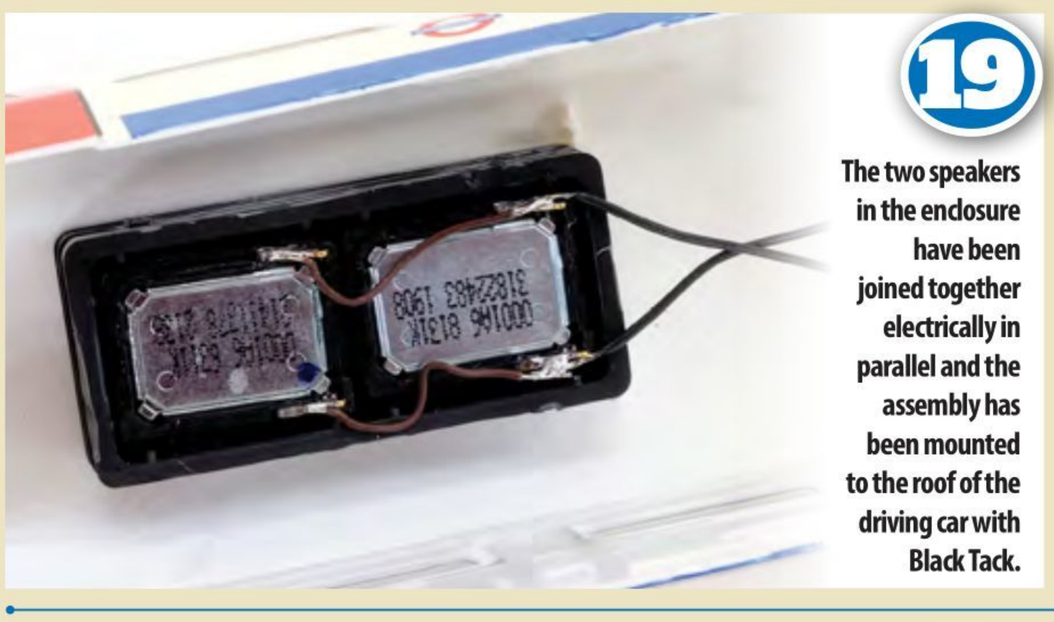
At the other end of the decoder, a black wire was added to the AUX3 solder pad to provide the negative connection for the cab light LED.

18

Having prepared the wires for the cab light, we moved on to build the speaker. The ESU speaker enclosures come as a kit of parts. This type is a twin speaker design which occupies 40mm x 20mm. Depth is configurable and we opted for the back panel and one extension joined to the speaker housing so we could mount it against the roof of the unit out of sight. Ensure the joints are all fully sealed for the best sound.

STEP BY STEP

INSTALLING SOUND AND LIGHTING IN S STOCK UNITS

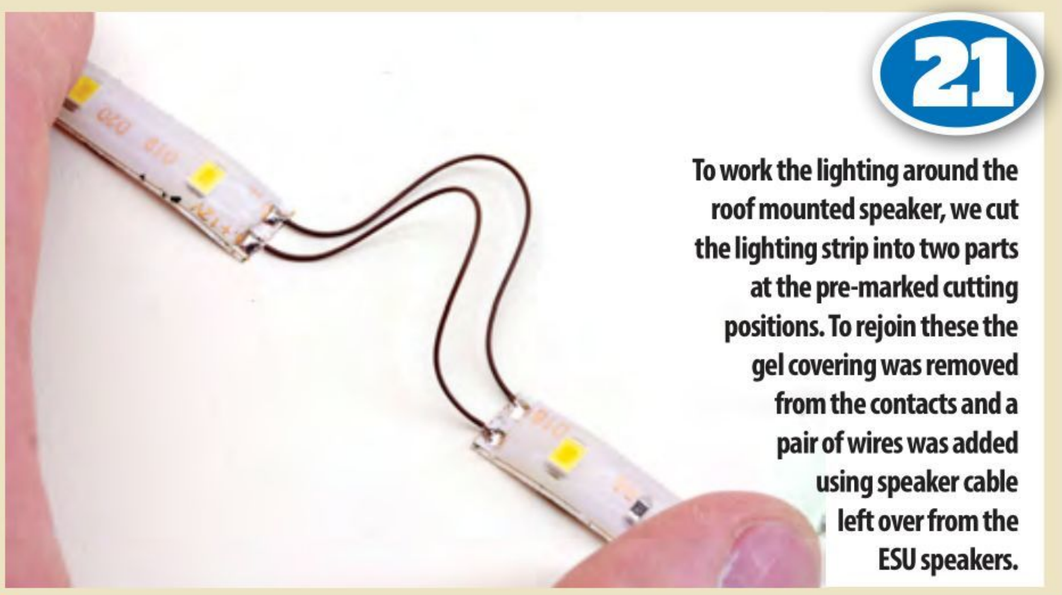


19

The two speakers in the enclosure have been joined together electrically in parallel and the assembly has been mounted to the roof of the driving car with Black Tack.

20

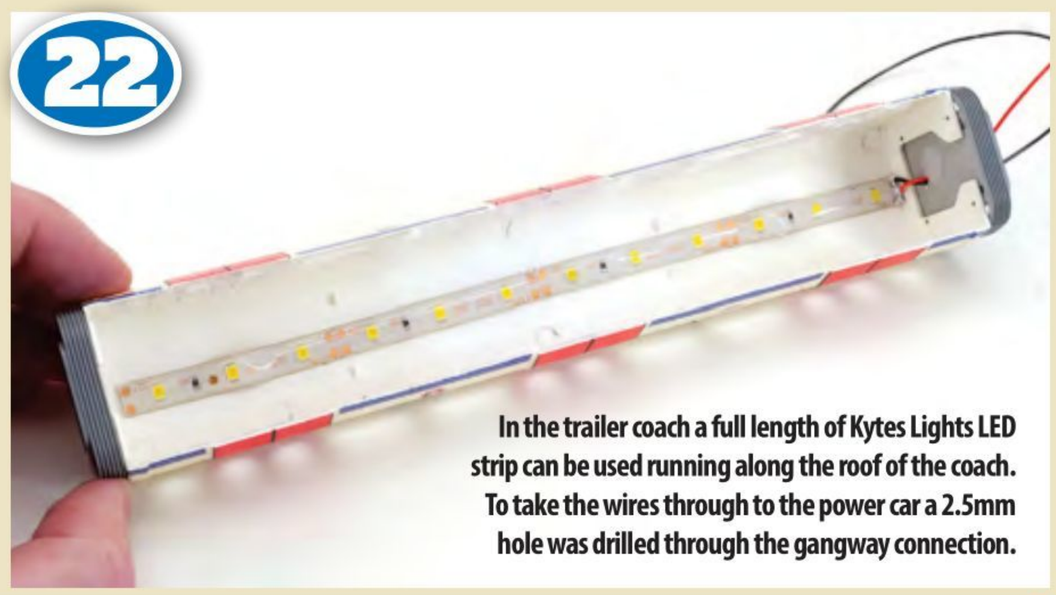
To continue the project, we used Kytes Lights flexible LED lighting strips. These are pre-prepared with wires and can be cut to length in selected positions. Each strip is 200mm long and has a self-adhesive backing which makes them simple to install.



21

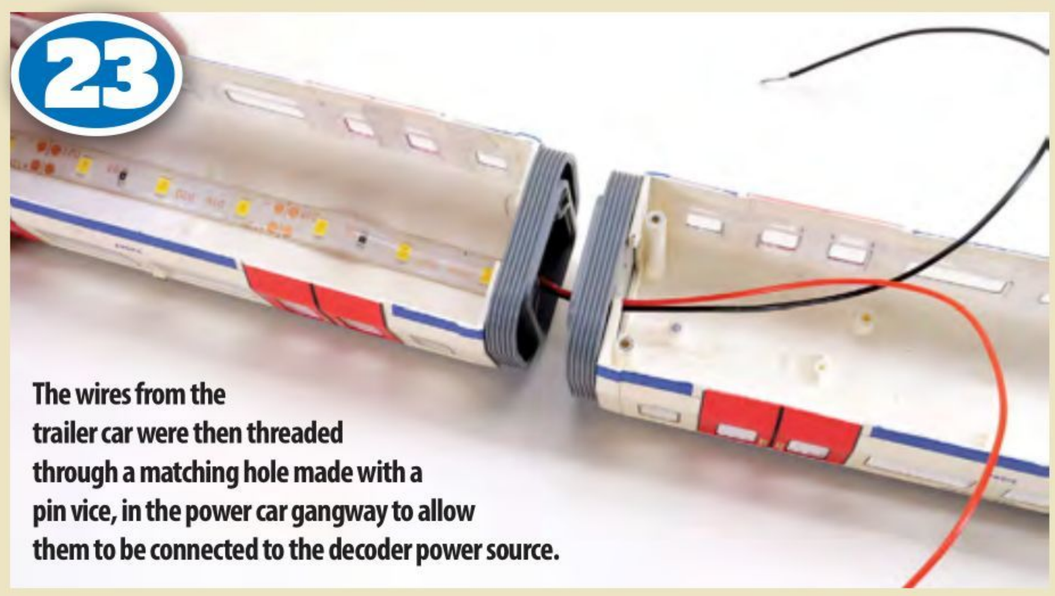
To work the lighting around the roof mounted speaker, we cut the lighting strip into two parts at the pre-marked cutting positions. To rejoin these the gel covering was removed from the contacts and a pair of wires was added using speaker cable left over from the ESU speakers.

22



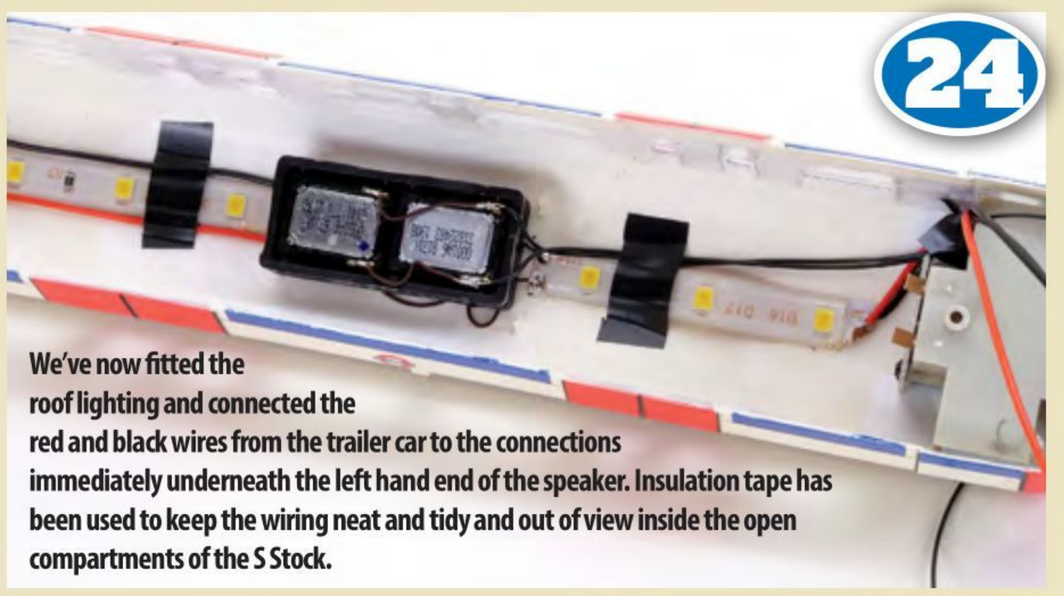
In the trailer coach a full length of Kytes Lights LED strip can be used running along the roof of the coach. To take the wires through to the power car a 2.5mm hole was drilled through the gangway connection.

23



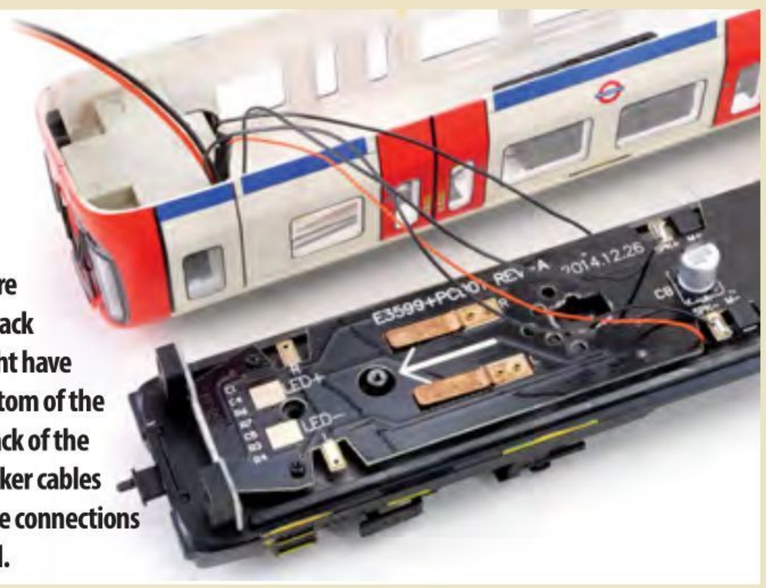
The wires from the trailer car were then threaded through a matching hole made with a pin vice, in the power car gangway to allow them to be connected to the decoder power source.

24



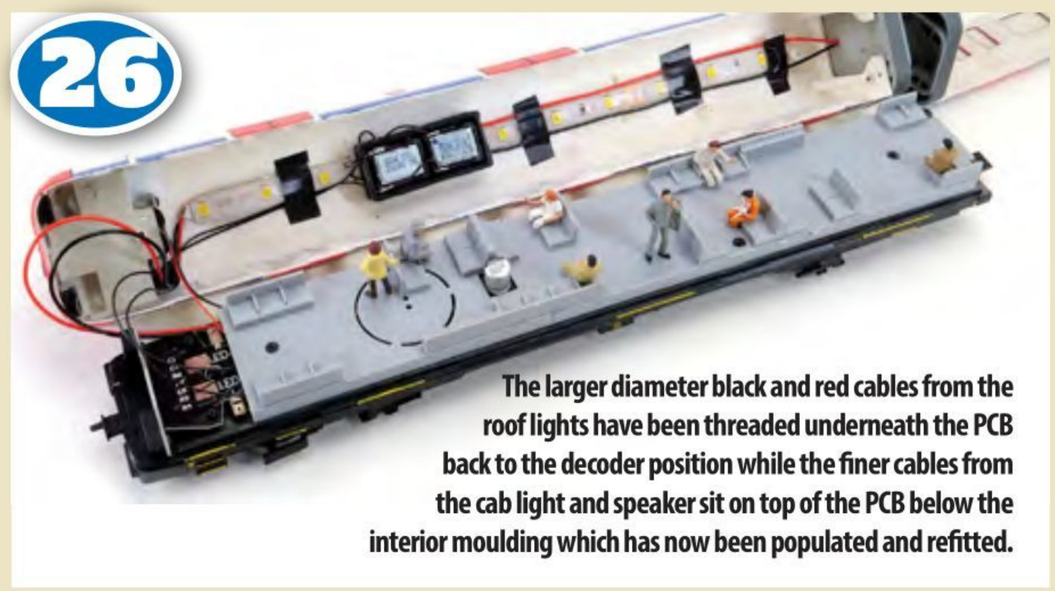
We've now fitted the roof lighting and connected the red and black wires from the trailer car to the connections immediately underneath the left hand end of the speaker. Insulation tape has been used to keep the wiring neat and tidy and out of view inside the open compartments of the S Stock.

25



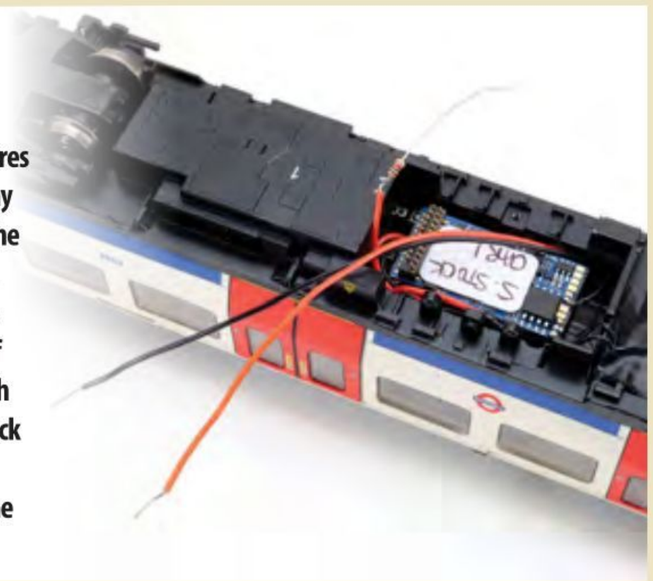
Having completed all of the preparation work we have a series of final connections to make. Here the red (+ve) wire and black (-ve) wires for the cab light have been soldered to the bottom of the copper contacts at the back of the cab interior and the speaker cables have been soldered to the connections on the unit's circuit board.

26



The larger diameter black and red cables from the roof lights have been threaded underneath the PCB back to the decoder position while the finer cables from the cab light and speaker sit on top of the PCB below the interior moulding which has now been populated and refitted.

27



Having carefully threaded all the wires back along the unit and taken up any slack, the main lighting cables are the last to be connected to the decoder. Both will be trimmed to length. The red wire connects to the spare leg of the resistor (and will be covered with heatshrink insulation) while the black wire will be soldered to the AUX4 terminal at the right-hand end of the decoder in this view.

28

The installation is now complete and the S Stock is now ready for testing. We repeated the full process to connect the lighting and sound functions in the other two carriages. You can see the completed four-car train in action on our test track at *www.keymodelworld.com*.

GAUGEMASTER

Kestrel N Scale Plastic Kits

SUPER DETAIL KITS

GMKD1002 Locomotive Works
GMKD1004 Station Overall Roof
GMKD1005 Loading Crane
GMKD1006 Brewery Main Building
GMKD1007 Brewery Boiler House
GMKD1008 Brewery Stores
GMKD1012 Nurseries
GMKD1013 Supermarket

STATION ESSENTIALS

GMKD08 Country Station
GMKD09 Station Buildings
GMKD10 Island Platform
GMKD12 Small Signal Box
GMKD11 Flat Canopy
GMKD16 Straight Platforms (2)
GMKD17 Platform Ramps (2)
GMKD18 Station Yard Huts

GMKD21 Level Crossing with Hut
GMKD24 Water Tower
GMKD29 Modern Station
GMKD30 Modern Waiting Rooms
GMKD31 Station Master's House
GMKD38 Steel Footbridge
GMKD41 Wide Platform (2)
GMKD42 Wide Ramps (2)

HOUSING ESSENTIALS

GMKD01 House
GMKD03 Bungalow
GMKD07 Four House Unit
GMKD15 Windows, Doors, Gutters
GMKD22 Greenhouses (4)
GMKD23 Domestic Garages (2)
GMKD27 Three Storey Townhouse
GMKD32 Semi-Detatched House

TOWN ESSENTIALS

GMKD02 Shop
GMKD04 Church with Porch
GMKD05 House/Shop Unit
GMKD06 Two Shop Unit
GMKD25 Corner Shop
GMKD26 Corner Pub
GMKD28 Three Storey Town Shop
GMKD40 Modern Fire Station

RURAL ESSENTIALS

GMKD13B Brown Fencing (86mm)
GMKD13W White Fencing (86mm)
GMKD34 Stable Block
GMKD35 Cow Shed
GMKD36 Barn
GMKD37 Farmhouse
GMKD51 Wooden Fence 51mm
GMKD52 Lattice-Top Fence 51mm

INDUSTRIAL ESSENTIALS

FIGURES

GMKD20 Coal Office
GMKD33 Boilerhouse & Chimney
GMKD39 Modern Industrial Unit
GMKD68 Unpainted People (72)
GMKD70 At The City Park (7)
GMKD71 Homeless People (9)
GMKD72 Crime Scenes (9)
GMKD75 Making the Delivery (7)

LARGE KITS/SETS

GMKD1000 Town Station
GMKD1001 Old Factory
GMKD2000 Station Set
GMKD2001 Town Set
GMKD2002 Suburban Set
GMKD2003 Farm Set

GM360
Full Gaugemaster Catalogue

Only £5.00

PRICES

GMKD01 House Kit	£5.75	**GMKD16** Straight Platforms	£4.25	**GMKD32** Semi-Detached Kit	£9.25	**GMKD60**	Station Clock (Lit)	£4.50	**GMKD1002**	Locomotive Works Kit	£26.00
GMKD02 Shop Kit	£5.75	**GMKD17** Platform Ramps	£3.50	**GMKD33** Boilerhouse Kit	£8.25	**GMKD61**	Petrol Sign (Lit)	£3.25	**GMKD1003**	Service Station Kit	£24.50
GMKD03 Bungalow Kit	£5.00	**GMKD18** Station Yard Huts Kit	£4.50	**GMKD34** Stable Block Kit	£5.25	**GMKD62**	Wall Clock (2) (Lit)	£7.00	**GMKD1004**	Station Overall Roof Kit	£31.50
GMKD04 Church Kit	£7.75	**GMKD19** Weighbridge Kit	£5.75	**GMKD35** Cow Shed Kit	£5.00	**GMKD68**	Unpainted Figures	£5.00	**GMKD1005**	Loading Crane Kit	£15.75
GMKD05 House/Shop Unit Kit	£8.50	**GMKD20** Coal Office Kit	£4.50	**GMKD36** Barn Kit	£7.75	**GMKD70**	At the City Park	£3.25	**GMKD1006**	Factory Machine Room Kit	£22.95
GMKD06 Two Shop Unit Kit	£8.50	**GMKD21** Keepers Cottage Kit	£7.75	**GMKD37** Farmhouse Kit	£9.50	**GMKD71**	Homeless People	£3.25	**GMKD1007**	Factory Boilerhouse Kit	£24.00
GMKD07 Four House Kit	£8.50	**GMKD22** Greenhouses (4) Kit	£4.50	**GMKD38** Footbridge Kit	£9.50	**GMKD72**	Crime Scenes	£3.25	**GMKD1008**	Factory Stores Kit	£24.25
GMKD08 Country Station Kit	£11.00	**GMKD23** Garages (2) Kit	£4.50	**GMKD39** Industrial Unit Kit	£7.75	**GMKD75**	Making The Delivery	£3.25	**GMKD1009**	Oil Storage Tanks (2) Kit	£18.75
GMKD09 Station Buildings Kit	£6.75	**GMKD24** Water Tower Kit	£5.25	**GMKD40** Fire Station Kit	£9.25	**LARGE KITS/SETS**			**GMKD1010**	Oil Tank Kit	£16.75
GMKD10 Island Platform Kit	£10.25	**GMKD25** Corner Shop Kit	£6.00	**GMKD41** Wide Platform (2)	£4.75	**GMKD1000**	Town Station Kit	£19.75	**GMKD1011**	Wind Turbine Kit	£36.50
GMKD11 Flat Canopy Kit	£7.75	**GMKD26** Corner Pub Kit	£6.00	**GMKD42** Wide Ramps (2)	£4.25	**GMKD1001**	Old Factory Kit	£23.50	**GMKD1012**	Nurseries Kit	£18.75
GMKD12 Signal Box Kit	£8.25	**GMKD27** Townhouse Kit	£7.75	**GMKD43** Goods Shed Kit	£10.00	**GMKD2000**	Station Kit Set	£18.00	**GMKD1013**	Supermarket Kit	£36.50
GMKD13B Brown Fencing	£4.25	**GMKD28** Town Shop Kit	£8.00	**GMKD51** Fencing 51mm	£7.25	**GMKD2001**	Town Kit Set	£15.75	**GMKD1014**	Summerhouses (2) Kit	£13.50
GMKD13W White Fencing	£4.25	**GMKD29** Modern Station Kit	£10.00	**GMKD52** Lattice Fence 51mm	£7.25	**GMKD2002**	Suburban Kit Set	£17.75			
GMKD14 Telegraph Poles (18)	£4.50	**GMKD30** Waiting Room Kit	£7.25	**GMKD53** Garden Shed (2)	£7.50	**GMKD2003**	Farm Kit Set	£19.75			
GMKD15 Windows/Doors	£5.75	**GMKD31** Station Masters Kit	£8.25								

NEW SUPER DETAIL KESTREL KITS

GAUGEMASTER products are available from your local model shop or, in case of difficulty, direct from ourselves

GAUGEMASTER Controls Ltd, Ford Road, Arundel, West Sussex, BN18 0BN, United Kingdom

tel - 01903 884488 fax - 01903 884377 email - sales@gaugemaster.com

www.gaugemaster.com

Theobald's YARD

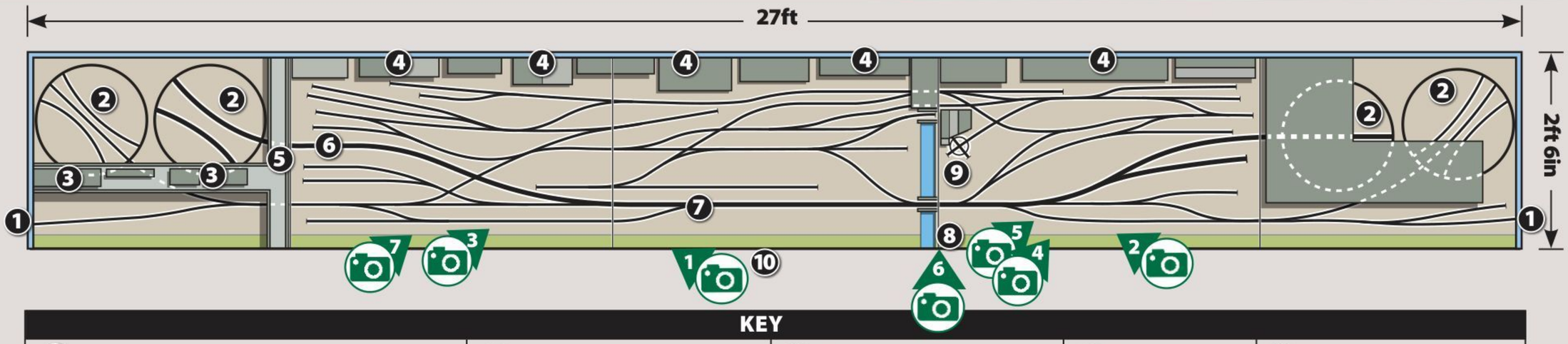
Orpington and District Model Railway Society chose a multi-gauge scenario for its busy 7mm scale industrial layout. **MARTIN COOMBS** *and the operating team reveal how and why it was built - and what is next for its future.*

PHOTOGRAPHY, TREVOR JONES

1 An industrial four-wheel shunter leads a rake of stone laden tippers along the narrow gauge line while a GWR '14XX' 0-4-2T waits for a clear path onto the dual gauge section at Theobald's Yard. A complex web of sidings makes this an entertaining layout to operate.

REGION	SCALE	GAUGE	SIZE	PERIOD	CONTROL
WESTERN	7mm: 1ft	'O', 32mm and 'O-16.5', 16.5mm	27ft x 8ft 6in	1970s	DCC

THEOBALD'S YARD TRACK DIAGRAM (Not to scale)



KEY

1 To rear narrow gauge storage yard	3 Houses	5 Road overbridge	7 Dual gauge	9 Wagon turntable
2 Off scene turntable storage yard	4 Low relief warehouse	6 Standard gauge line	8 Canal	10 Viewing side

IN the early 1990s, the Orpington and District Model Railway Society (ODMRS) had completed and were exhibiting their 7mm standard gauge layout Tewkesbury, an end to end configuration featuring Tewkesbury Quay station and engine shed. A track beyond the shed went off-scene to a storage yard.

During an evening at a hotel while exhibiting in Bolton, the operators mulled over the idea of adding a new extension to the layout comprising some fictional feeders to the flour mill and brewery utilising a mix of standard and narrow gauge tracks, as a couple of the newer members had an interest in the industrial scene. Although originally an adjunct to the Tewkesbury layout, Theobald's Yard is now an entirely fictitious and standalone setting.

Some of the club members who were originally involved with the construction of the layout have moved on to other projects or interests, but others have joined in. It is through this evolving process that we now have helpers that have introduced electronics into the system so we can now have a degree of automation in running the layout. The original analogue system has been replaced with DCC, which gives more flexibility in train movements, particularly with regard to the shunting movements around the factories where multiple locomotives can be independently operated anywhere without the constraint of track electrical sections.

THE LAYOUT

A track plan was drawn up, designed to fit on three 5ft x 2ft 6in baseboards which were built using softwood frames with plywood tops covered with 3mm cork. We have learned our lesson with heavyweight layouts and recent projects have featured a lighter weight foam-based construction.

By the time the track was completed, the membership and interests had changed and Tewkesbury was retired. The new layout then took on a life of its own and became known as Theobald's Yard. To assist in operation as a standalone entity, two more boards, each 4ft x 2ft 6in, were added either end, featuring a hidden standard gauge and narrow gauge turntable in each.

The planning process was very quick, but the execution took place over 20 years on and off - and the layout has grown and evolved through this time. The original track plan was adhered to, there being no need to change as work progressed.

The configuration was extended into a continuous circuit more recently to enhance operational capability at exhibitions. This is now its current format, »

2 An Ixion Models Fowler 4wDM shunter crosses from dual to standard gauge as it shunts the sidings at Theobald's Yard.

which works well, and there are no plans for any changes. The final format consists of five main scenic boards assembled from the 5ft and 4ft long sections which link to curved boards at the ends to take the main running lines round to the rear storage yard. The hidden yard is built on four 5ft x 1ft boards permanently joined by hinges which enables them to fold back on each other to form a box measuring 5ft x 1ft x 1ft 6in for transport to and from events.

The track in the factory area is all hand built on PCB sleepers with check rails, inlaid with inscribed paving setts using DAS modelling clay. The front of stage standard and narrow gauge track is all spiked onto custom cut softwood timber sleepers, including sections of dual gauge track and points. Rear off-stage track is Peco 'OO' gauge track and points.

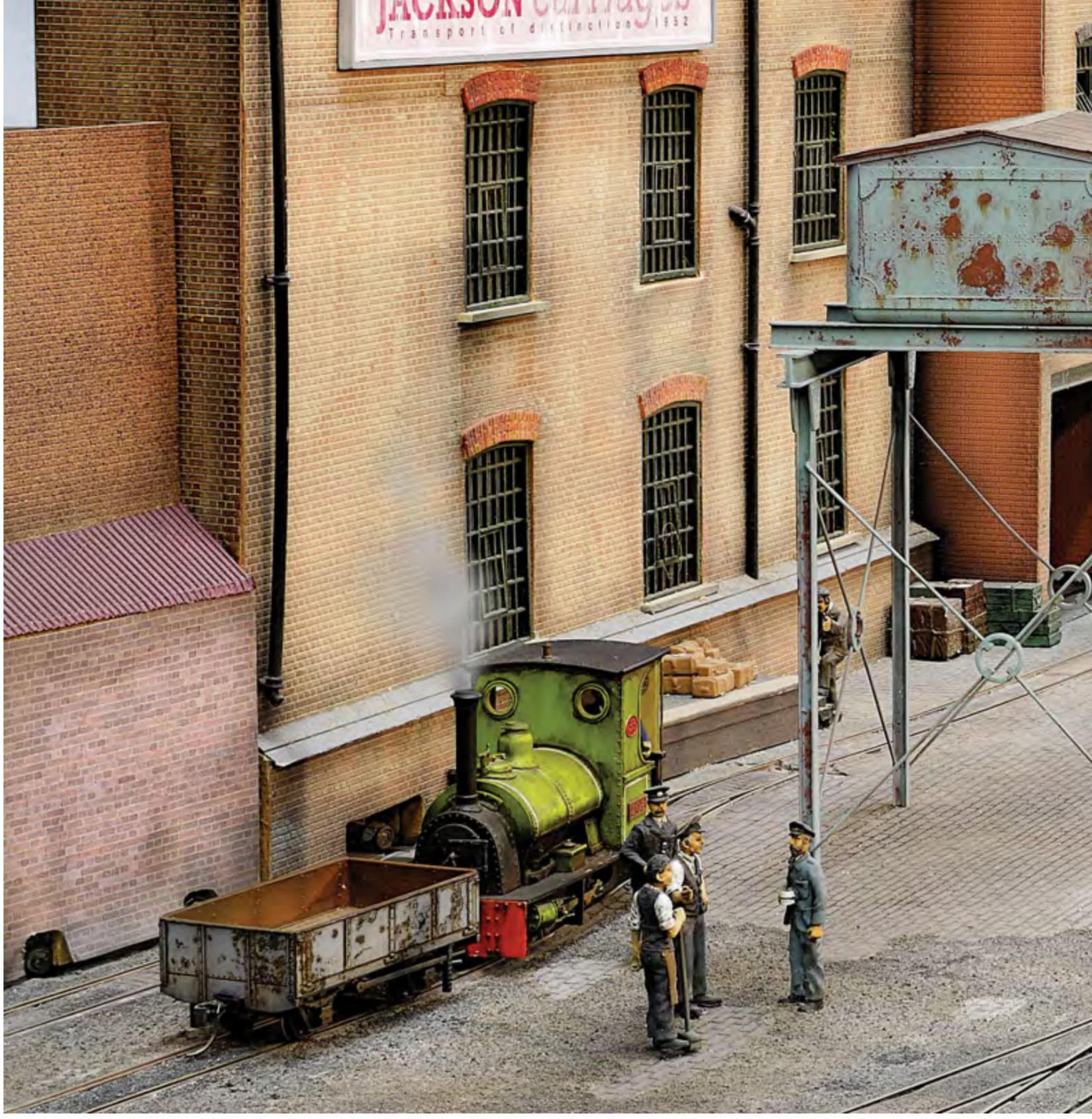
From the start Theobald's Yard has been an exhibition layout with events including the Orpington club show, EXPONG Swanley, Tonbridge and Tolworth. The layout is currently on permanent display in Ashford as part of the Ashford International Model Railway Education Centre marketing suite.

DIGITAL OPERATION

The layout originally used analogue DC operation with extensive section switching and multiple control panels. The points in the industrial sections were mechanically operated with attached switches controlling the frog polarity and some section selection. The points in the outer trackwork and storage yard were controlled by stall motors and solenoids.

Although workable it did restrict some operations so in 2013 the decision was made to convert the entire layout to DCC. Also, in order to reduce the inter-board wiring and connectors, MERG CBus modules were chosen to control all aspects of the layout. This meant just four wires plus the DCC connection between the boards were needed.

A single Mimic panel is used to control the outer trackwork and storage yard. Also distributed around the layout are



Above: **Looking across the yard of Jackson Coombs, Theobald's Yard has plenty of activity to observe as an industrial diesel leads a rake of log wagons along the dual gauge section.**

Left: **Vertical boilered 0-4-0T 30 *Nicola* shunts the sidings in the company of four-wheel diesel shunter 59 *John*.**

5 The SR lettered industrial 0-4-0T steams out of the main warehouse, which hides access to a hidden storage yard turntable, with a short goods. On the right the two-car railbus has arrived on the narrow gauge line.

sockets for seven controller handsets. To reduce the operator overhead at exhibitions, six predetermined routes are now selectable on the outer trackwork which correspond to various train sequences. This has been further enhanced so the routes are sequentially selectable from either turntable board using single switches with confirmation being displayed on numerical indicators. With this system, operation of the outer trackwork and off-scene storage yard can be done with just two operators.

The DCC feed to the tracks on the five display boards has been split between the outer and the industrial trackwork on each board. Thermal trips provide protection on each trackwork section so a short or derailment on that section only stops one section and not the whole layout. There are six crossovers on the layout - mostly in the industrial yards - which are controlled using frog juicers. The industrial yard»

points are still manually switched, but using DCC for track power there is no need to park locomotives for multiple operation.

Several other features have been included on the turntable boards to show when a route to a particular turntable is valid and the polarity is correct. This is via colour LEDs on a small display panel. A position is included for a Raspberry Pi module fitted with CANWEB and Wi-Fi for external devices enabling us to run the layout with tablets and smartphones as well as conventional DCC throttles.

CREATING MOVEMENT

The layout is basically two layouts in one. The main circuits and end to end turntable storage yards are run to a six-stage sequence. The factory sidings are run on a freestyle shunting mode using a variety of small diesels and as many wagons as you can handle. In addition, radio controlled lorries, which we built for use on another layout, have been introduced as another feature to bring the layout to life and means you need to keep your wits about you when shunting.

Theobald's Yard is fully presented for exhibition appearances with its own lighting rig to illuminate the extensive industrial setting.

There are two distinct fleets available for Theobald's Yard providing trains for the standard and narrow gauge rosters. The standard gauge stock is all built to 'O' gauge – 32mm gauge – while the narrow gauge trains use 'O-16.5' which runs on 16.5mm 'OO' gauge track.

As the standard gauge section has a less intensive trackplan, its locomotive fleet is smaller too. It consists of a Connoisseur kits 0-4-0T fitted with sound that hauls two open wagons and an Ixion Fowler 0-4-0DM shunter fitted with sound and stay alive capacitors hauling one open and one box van.

The narrow gauge consists of around 20 kit or modified steam and diesel locomotives, many of which are fitted with sound and stay alive capacitor packs for enhanced operation. There is one twin railbus set and two bogie coaches hauled by a steam locomotive catering for passenger workings. The freight side of things is taken care of with 18 locomotives and more than 100 wagons of various forms from bogie hoppers to small flat wagons. »

6 The passenger train in the hands of an 0-4-2T passes the chimney lettered for Theobald's Yard as it approaches the canal crossing.

Favourites amongst the narrow gauge fleet are the small diesel shunters with sound and stay alive as they will shunt all day at a crawl and have transformed operation of the factory complex.

THE FUTURE

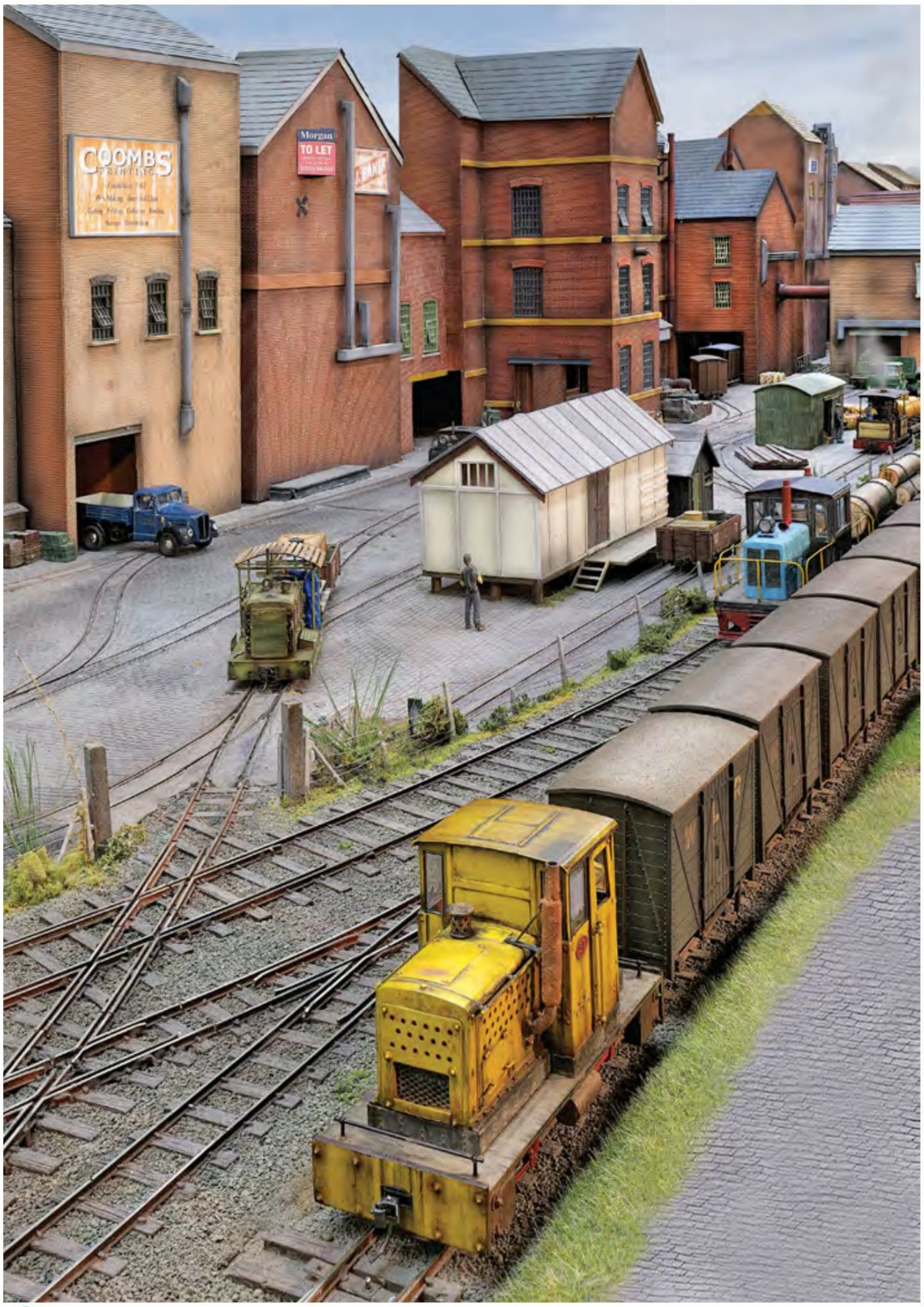
The conversion to DCC control has transformed operation of Theobald's Yard while the use of sound decoders with stay alive capacitor packs has been a revelation in reliable running for short wheelbase locomotives. We see no other way for the future, and we have several new layouts in development.

Next will be a 7mm scale industrial layout called The Yard, which features a radio controlled gantry crane and lorries which load and unload standard and narrow gauge wagons - and this will be followed by a 16mm scale narrow gauge layout called The First Sunday in June. It is entirely scratchbuilt in what we think is a unique display method and features a fully indexed vertically rotating storage yard. The layout is 32ft long and currently at the track building stage now that all the landforms have been built.

The third is a modern image four-track 'OO' layout called Swanley Junction, measuring 30ft x 12ft and due for its first exhibition, current situation allowing, in January 2021 at our club show. This layout has handbuilt track work with third-rail southern electrification.

The curves all feature superelevation, control is DCC with on track detection, automatic signalling and the ability for automatic running should we wish. All the buildings are kit or scratch built.

The Orpington and District Model Railway club is always busy developing its layouts and we hope Theobald's Yard will continue to inspire visitors to the AIMREC marketing suite while it remains on display there. HM



The industrial diesel fleet has been enhanced with the addition of sound decoders with stay alive capacitor packs attached for consistent and reliable running. Each locomotive is uniquely weathered to capture the spirit of a working industrial railway.

WARTIME HEAVY FREIGHT

In times of national crisis our railways are often called on to perform extraordinary feats, and in the Second World War freight traffic rose to such an extent that a special breed of locomotive was required to deal with it. **EVAN GREEN-HUGHES** *explains all.*

The USATC 'S160' 2-8-0s were distinctive for their American outline and came to the British railway system in kit form. In 1944 'S160' 2415 has just passed Hatch End with a down freight on the West Coast Main Line.
C.R.L. Coles/Rail Archive Stephenson.

TODAY it is hard for us to appreciate the impact the declaration of war between Britain and Germany had on our railway system just over 80 years ago. Express passenger train services, for many the focus of attention in normal times, were slashed or done away with while local trains began to run to reduced frequencies as all but essential travel was banned. On the goods front, local pick-up freights ran as normal with some adjustments to the loadings caused by restrictions on purchases and rationing - but there was a sudden and massive jump in demand for long-distance and heavy freights, for which our railway was not well prepared.

Naturally, much of this demand related to the movement of materials for the manufacture of fighting vehicles and weapons, and then their subsequent transfer to the place where they would be required, but there were also extra trains of coal, as well as countless trains full of troops to be considered. Later there would be ambulance trains and the sorry sight of evacuation trains full of children being taken away to temporary places of safety.

Britain's answer to the requirement for heavy freight locomotives was to create the 'WD' 2-8-0 and 2-10-0 – a rugged cost and material saving design which could step in on a wide range of goods work. In 1945 'WD' 2-8-0 77091 passes Hatch End with a down train of coal empties. C.R.L. Coles/Rail Archive Stephenson.

The railways had been placed on a war footing by, to all intents and purposes, being taken into government control and thoughts initially centred round supporting the war effort in France, which had not at that time been invaded by the Germans. Robert Riddles, at the time the LMS' Mechanical and Electrical Engineer for Scotland found himself seconded to the Ministry of Supply with the task of hurriedly arranging motive power to support the British Expeditionary Force and initially the use of the Robinson 'O4' 2-8-0s was considered, a Great Central design which had proved extremely successful in the first conflict. At the Ministry's request 300 examples of this numerous class were requisitioned for service in France from the LNER, and 57 of them were fully prepared for shipping before there was a change of heart and the proposal was dropped.

MODERN UPGRADES

It had been realised that, reliable though the 'O4' was, it was an old design and that something more up-to-date would be required to supplement the domestic railways and for service overseas. As Riddles was an LMS man it is perhaps not surprising that he looked towards that company's '8F' 2-8-0 (see Reality Check in HM156) to fill the gap, but this was actually a sound decision as it was a simple two-cylinder machine with many advanced features, but was also to a design some 20 years more up-to-date than could be offered by either the GWR or the LNER. The Southern being a predominately passenger railway did not have a locomotive of this type.

Orders for no less than 240 of the '8F' were therefore put in hand by the government with construction being shared between main line railway workshops and »

those of several independent contractors. These, however, differed from those previously constructed, mainly due to a lack of suitable materials. The main frames were made of mild instead of high tensile steel and had to be increased in thickness to compensate. Coupling rods were also of mild steel instead of manganese while pins and bushes replaced the needle bearings formerly used. There were some additions, too, predominantly train air brake equipment, but some also received French-style speed recorders.

Although construction of these engines was swiftly undertaken none had been completed by the time Allied forces were pushed back to the beaches at Dunkirk and therefore instead of being sent overseas the '8Fs' were allocated to UK railway companies where they were gladly taken up to assist in working the ever-growing number of freight trains. More '8Fs' were added to stock as the war progressed, though most were ordered directly by the railway companies rather than by the War Office itself.

CUT-PRICE '8F'

With materials becoming scarce during wartime, but with the demand for heavy freight locomotives continuing to rise as the years went by, proposals were set in motion to produce a revised version of the '8F' which would be simpler to construct and use fewer materials. The proposals saw the taper boiler of the '8F' replaced with a parallel type with a round-top firebox. Many parts such as frame stretchers were fabricated instead of cast, while cast iron was used for most of the driving wheels instead of steel. A massive tender was also supplied which enabled the engines to work for long periods without the need for refuelling.

This locomotive, which became known as the War Department 2-8-0, or 'WD' to enthusiasts was quickly put into production with the first example taking to the tracks in April 1943. Within a year 935 had been built because sooner or later the Allies were going to return to France. Once that had been achieved a large number of freight engines were going to be needed to haul the trains which would supply the advancing army. The 'WDs' were constructed by the North British Locomotive Company in Glasgow and Vulcan Foundry at Newton-le-Willows and while some were stored awaiting the forthcoming invasion, 450 of them were loaned to British companies, with 350 of these being taken by the LNER. These locomotives proved to be invaluable in assisting with the movement of armour and materials towards the south coast and were used extensively until they were recalled by the Government in June 1944. Later they were shipped abroad where many of them assisted in the successful liberation of Europe.

USATC 'S160s' were operated by all of the 'Big Four' railway companies with just shy of 400 examples entering service collectively. 'S160' 1705 shows its rugged design at Stratford shed on April 1 1944. Rail Archive Stephenson.

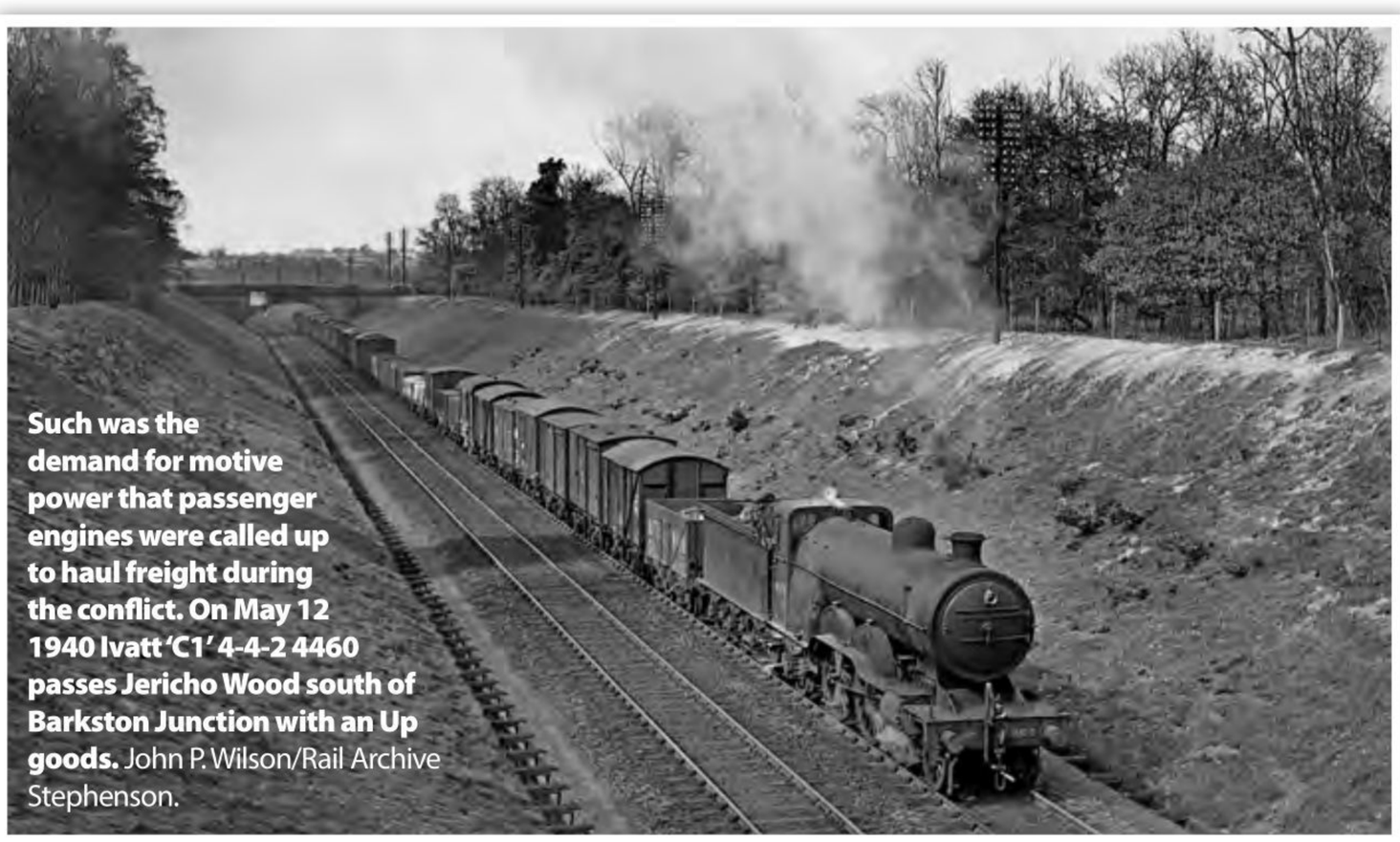
A PRE-BR '9F'?

A second version of the 'WD' was also produced which had an additional driving axle to provide a 2-10-0 wheel arrangement. This version was intended for use on some of the more poorly-laid lines which were known to exist on the continent and had a lighter axle load because of the additional wheels. Most of the other components were the same as the 2-8-0, except for the firebox which was wider. North British was responsible for the construction of this variant which extended to 150 examples in two batches between 1943 and 1945.

Examples of this class were run in on UK railways but were not routinely used due to their length and wheel arrangement which precluded them from many lines. All were sent abroad for war service with 20 of them working in the Middle East and the rest mainly being allocated to France. Although these were not to find favour in the UK, the bulk of the class did pass to Dutch Railways after the war and assisted that country to rebuild its system after several years of destruction.

THE YANKS ARRIVE

By the time the 'WD' was in production the United States of America had entered the war on the side of the allies. The country had a highly-developed army railway division, known as the Army Transportation Corps, which was itself gearing up for the invasion of Europe. As with the home troops, there was a need for a basic heavy freight locomotive, and once again the 2-8-0 wheel arrangement



Such was the demand for motive power that passenger engines were called up to haul freight during the conflict. On May 12 1940 Ivatt 'C1' 4-4-2 4460 passes Jericho Wood south of Barkston Junction with an Up goods. John P. Wilson/Rail Archive Stephenson.

The robust Robinson 'O4' 2-8-0s were originally proposed for overseas service during the Second World War, but ultimately a more modern design was favoured. Nevertheless, these 2-8-0s continued to serve at home on heavy freights. The pioneer of the class, 5966, passes through Nottingham Victoria with an Up goods on March 23 1940. John P. Wilson/Rail Archive Stephenson.

'WD' 2-8-0 77230 darkens the sky as it passes over Ruislip water troughs with a down train of coal empties for Woodford shortly before being sent to the continent in 1945. This engine later became Dutch State Railways 4415 before returning to the UK as BR No 90198. C.R.L. Coles/Rail Archive Stephenson.

was selected for this purpose. What was to become known as the 'S160' class was developed by Major J W Marsh of the Corps of Engineers from a pre-war design, being re-scaled to fit the UK and European loading gauge. It was also redesigned so it used the minimum of materials and could be assembled in the least possible time.

As with the 'WD', fabricated components were used wherever possible in place of castings, although the frames themselves were castings, and were designed in this way to reduce assembly time. Modifications were made to the springing to enable the locomotives to be used on poor-quality track and again a large, eight-wheel tender was supplied, in this case mounted on bogies, rather than a fixed wheelbase as had been used on the 'WD'.

Construction of the 'S160' began in 1942 and 800 locomotives were built within a year, with Baldwin, Alco and Lima all producing examples. Engines were then shipped to Britain in a partially-assembled state with the usual port of arrival being Newport in South Wales. Final assembly took place at Ebbw Junction although some were taken to Doncaster for this work to be completed. After running in, some locomotives were made available for use on the home front with the GWR taking 174 of them, the LNER 168, the LMS 50 and the Southern only six.

In practice the 'S160' was found to have a few shortcomings, with a particularly dangerous issue being weaknesses in the firebox stays, an issue which resulted in the death of one GWR fireman. There were also instances of hot axleboxes which were traced back to problems with the mechanical lubrication system, and the provision of only one water glass for the boiler was seen as a major problem. However, once these troubles were ironed out the 'S160s' began to give sterling service alongside their British-built cousins.

MAINLAND SERVICE

As with the 'WDs' and the '8Fs', the 'S160s' were recalled in time to support the invasion of Europe and in time all went abroad, where they were joined by many more which were shipped directly to the continent from the USA. Eventually no fewer than 2,120 were built and the class had a major effect on the transport of goods in the final couple of years of the war and for decades afterwards. After the conflict many examples were obtained by European railways and they were to be found in France, Austria, Czechoslovakia, Italy, Greece and Poland. However, none returned to Britain after the conflict, presumably because their design features were too American when compared with the 'WD' type, of which in any case there was an ample supply available from the War Office.

By 1945 the fighting was over but it was to be many years before there was true stability in both our country and in Europe. Materials to rebuild towns and cities still had to be transported and support also had to be given to industry as it made the transition from wartime to peacetime production once again.

The wartime heavy freight engines rose to the challenge and many of them lasted until the 1960s and the 1970s doing exactly the sort of job they were designed to do. In fact, the relative simplicity of wartime engines proved to be a positive boon both at home and overseas particularly in the early years, when maintenance facilities were often not yet fully rebuilt.

While many of the stories of the Second World War are well-known, that of our railwaymen and their heavy freight engines are less so. Perhaps now, on the anniversary of the D-Day landings, it is a suitable time to remember that contribution and its effect on the successful resolution of that conflict. Hm

YOUR NEW ONLINE HOME

NEW WEBSITE LAUNCH

KEY MODEL WORLD

Key Model World is the **NEW** online home of railway modelling, brought to you by Key Publishing, publishers of *Hornby Magazine*

You'll find an array of railway modelling content on Key Model World - including feature layouts, the latest reviews, step-by-step guides, premium videos and Key Model World exclusives.

UNLIMITED access to this exciting online content from our dedicated team starts from just £41.99/year for UK customers. And registering couldn't be simpler. For instant access to the latest *Hornby Magazine* features and hours of modelling inspiration and other premium content, visit:

www.keymodelworld.com

FREE ACCESS FOR ALL HORNBY magazine SUBSCRIBERS*

Visit www.keymodelworld.com/subscribe

*Free access available for a limited time only – sign up today!

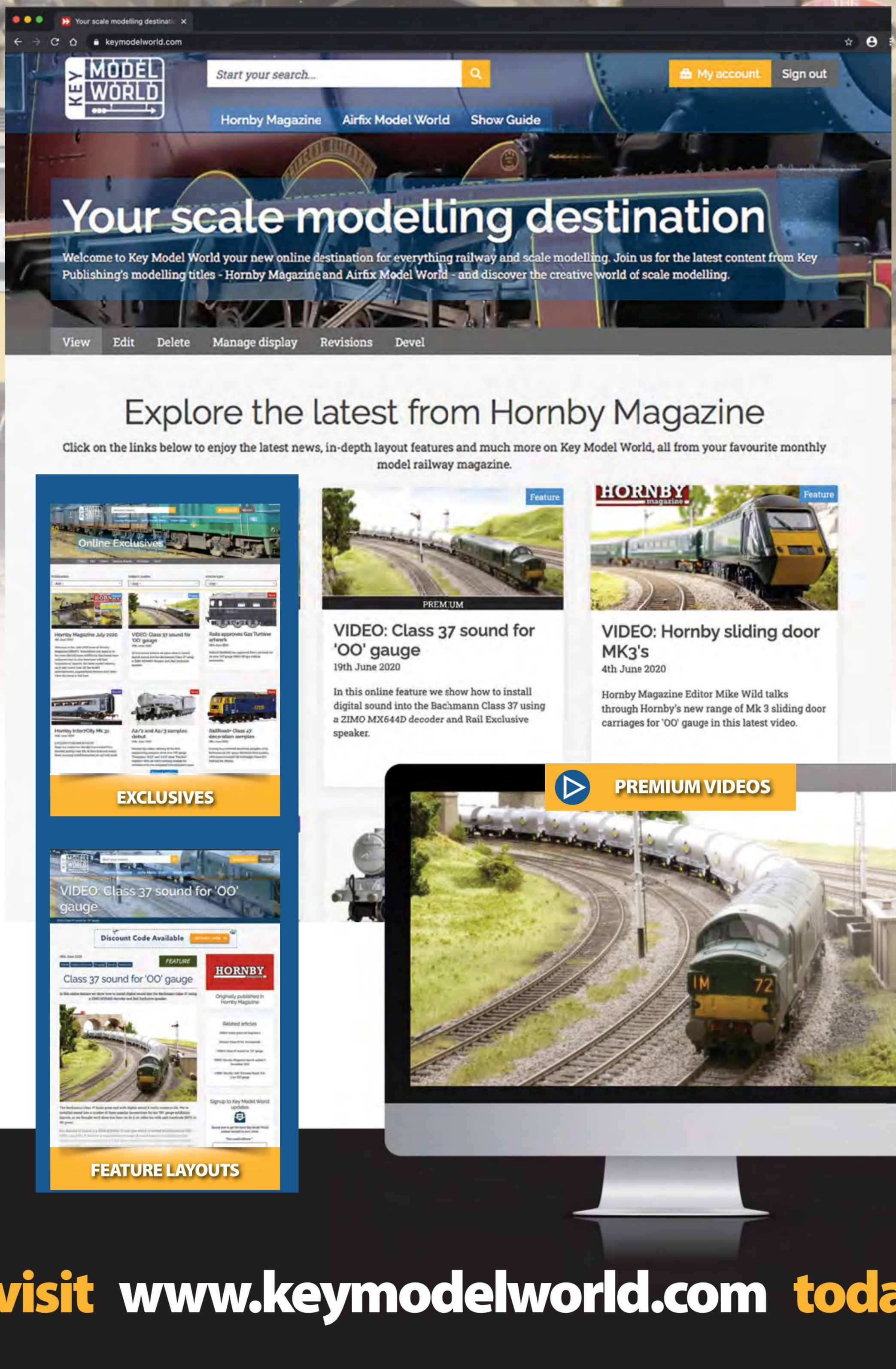
Mike Wild *Editor - Hornby Magazine & Key Model World*

We value your feedback!

Let us know your thoughts on *Key Model World* – drop us a line at subs@keypublishing.com today

FOR RAILWAY MODELLING

KEY MODEL WORLD



visit www.keymodelworld.com today!

STAFF PROJECTS

Garden railway CONSTRUCTION

PART 2

In the second part of *Hornby Magazine* Editor **MIKE WILD'S** three-part series on construction of his 'O' gauge garden railway, he moves on to the return loop and development of the power system.

The future station site on the return loop now has a full set of loops and sidings. From the left is a siding for locomotive and train storage, next is the loop on the inner circuit followed by the inner circuit through line with a ballast train awaiting a path. On the right the 'Western' is on the original outer line for the return loop. In the distance the pointwork leading into the return loop and station area can be seen.

The *Hornby Magazine* team is always busy behind the scenes. This is what they've been up to.

MIKE WILD

A new Class 37 sound file has been installed in Mike's favourite 'split box' green example while he's also been adding ZIMO sound to a 'J50' to run on Trevor's garden railway.

MARK CHIVERS

Amidst juggling of coupling systems, Mark has also added DCC sound to his prized 'OO' gauge Railfreight Coal Class 58 58007 *Drakelow Power Station*.

WHEN I was designing the track plan for Western Banks, I decided early on that all of the outdoor sections should look like double track, even though it is actually a giant 300ft long single track line. For the return loop I could have kept things simple and followed the same arrangement, but I wanted it to continue the same double track style.

There were a number of restrictions to work around in designing the return loop. It needed to fit into a maximum width of 10ft 6in and I had 18ft in length to accommodate the plan between other fixtures in the garden. In the end the plan fills 26ft x 10ft 6in including the pointwork leading into the return loop.

The original concept was to introduce a double junction on the approach to the loop which would allow the double track theme to continue. This would consist of two right-hand points and a diamond crossing. After the junction the route would go around one side of a pond to reach a station area on the other where two further points would allow for a pair of sidings for train storage. I soon realised I could get more out of this area by swapping the diamond crossing for a double slip at the junction – doing that meant that reversing moves were possible allowing locomotive changes to take place at this end of the line as well as replicating terminating trains. A few steps further on I also realised that I could include an additional loop in place of one of the sidings by modifying the webbing of a Peco left-hand curved point to increase its flexibility. The final track arrangement accommodates all of this and provides useful operational capacity too.

FOUNDATIONS

The construction style for the straight sections of framework followed that shown in HM157. 69mm x 18mm planed softwood was used for the frame topped with 18mm plywood, all of which was suitably treated to make it weatherproof.

Creating the curved section called for a new method which involved cutting short sections of softwood to create a frame which could flex more easily around the curve. This frame gains its strength from the addition of the baseboard surface and with fence posts set every 4ft around the curve it is strong enough to support my own weight walking on the trackbed.

To allow it to follow the curve, softwood was cut into 12-15in lengths for the outer frame with steps cut out at each end of each piece so that the next could sit on top. The inner frame was cut from the same material with the length being reduced to match the profile of the curve. Cross braces were added between every section to provide a structure which would provide a solid base of the plywood top. A single 60mm screw was passed through a pre-drilled hole to join each section together which left enough flexibility during construction for the whole frame to be flexible. Once happy with its position, I doubled up the screws at each joint to firm it up.

Installation of the frame at this point required the ground to be dug out to keep the trackbed level as it had now reached the top of the slope in the garden. Removing earth also meant that there was an air gap underneath the trackbed and this has been maintained by adding a skirt of roofing felt which laps underneath the ground inside the loop.

Another important feature of this part of the build was to make the two panels with points on them accessible for maintenance. These have been installed as separate pieces which means that should it be necessary six screws can be removed to allow each of these boards to be lifted out giving access to the point motors and frog juicers which have since been installed underneath.

TRACK AND CONTROL

All of the track is Peco code 124 bullhead rail, as used on the rest of the layout. The first section to be laid was the outer main line as this meant that I could get trains running on the full circuit in June 2019 without the need to complete all of the track in one go.

As before, all the rail joints were given bonding wires to ensure a reliable electrical supply and I could now start running trains and finding out if my plans for the power source would be up to the job.

What I soon discovered was that, as I expected, the 4amp supply of my Gaugemaster Prodigy base station was capable of running two locomotives on most sections, but through the use of a DCC Concepts Alpha Meter I was able learn that the voltage available to the layout wasn't really high enough in some cases. I had an 8amp booster waiting for connection and after running the initial formation without it, I added this to the power supply for the 2020 running season and it has made a huge difference to the layout's operation. Ultimately power will be managed by a power district module.

The 8amp supply now feeds the internal storage yard and the full main line run to the junction. At this point the original 4amp supply takes over as the frog juicers don't respond well to high current supplies. However, there is another modification coming so that the 4amp supply will literally supply the two junction boards and sidings with the outer line of the return loop being fed by the 8amp supply between the points.

DIGITAL THROTTLES

I've long been a fan of the Gaugemaster Prodigy and it has been a regular and reliable feature of our exhibition layouts as well as being the primary DCC system on our test track. It was a clear choice when planning operation of the garden railway where I planned to exploit the wireless capabilities of its radio system. However, I found that because of the size of the layout, the range available from the Prodigy Wireless wasn't quite as strong as I would have liked.

Happily in 2019 Gaugemaster released a solution – the Prodigy Wi-Fi extension. This unit plugs into the base station and allows smartphones to be used to control the layout using the WiThrottle App. I used this throughout running sessions in 2019 and enjoyed the flexibility of range that it provided, but I still knew I would prefer the tactile feeling of a DCC handset.

During 2020 I have moved over to use the new Train Control Systems (TCS) Wi-Fi handset (HM155) which is a universal throttle which can connect to DCC control systems which employ the WiThrottle protocol including the Gaugemaster Prodigy Wi-Fi extension. The handset is battery powered and in conjunction with the Wi-Fi extension has a brilliant range which means I can control trains anywhere in the garden and even from the house or garage when required.

NEXT TIME

In the third and final part of this series on construction of Western Banks I will go into detail about the electronics which power the double junction for the return loop with a full step by step guide. Best of all, my method can be used for any scale or gauge and for both indoor and outdoor layouts. Join me next time in Staff Projects to find out more. Naturally there is still much more to come for Western Banks and as I progress with the layout I will keep you up to date through Staff Projects.

TOOLS

- 1m steel ruler
- Spirit level
- Pencil
- Saw horses
- Circular bench saw
- Handsaw
- Jigsaw
- Plunge saw
- Electric screwdriver
- Electric drill

STEP BY STEP

BUILDING A GARDEN RAILWAY RETURN LOOP

1 The return loop was the most complex part of building the garden railway. It occupies an 18ft x 10ft space beyond the decking which allows enough room for a full circle to be built to take the route back on itself to complete the circuit. The alignment was marked out carefully with spray paint but took more than one attempt to get right.

2 The same wooden frame method was used for the first straight sections of the return loop base using 69mm x 18mm planed softwood in 8ft long sections. The width was increased to 22in for this part to accommodate plans for a station and sidings.

3 Development of the frame for the junction required careful planning to ensure that all points were positioned away from crossmembers and to get the angle of the diverging lines correct too. Many adjustments were made!

4 The softwood frame was heavily treated with fence paint to seal it prior to installation. The garden in this area sees very little direct sunlight most of the year which makes it ideal as the location for a station and stabling sidings.

5 The ground beneath the frame was dug out so that it could be supported on 75mm x 75mm fence posts set into ready mixed Postfix cement. Removing the ground also allowed the trackbed to sit level and for there to be an air gap underneath it.

6 The station board frames are complete along the fence line in this view and work is progressing on the curved frame to create the return loop.

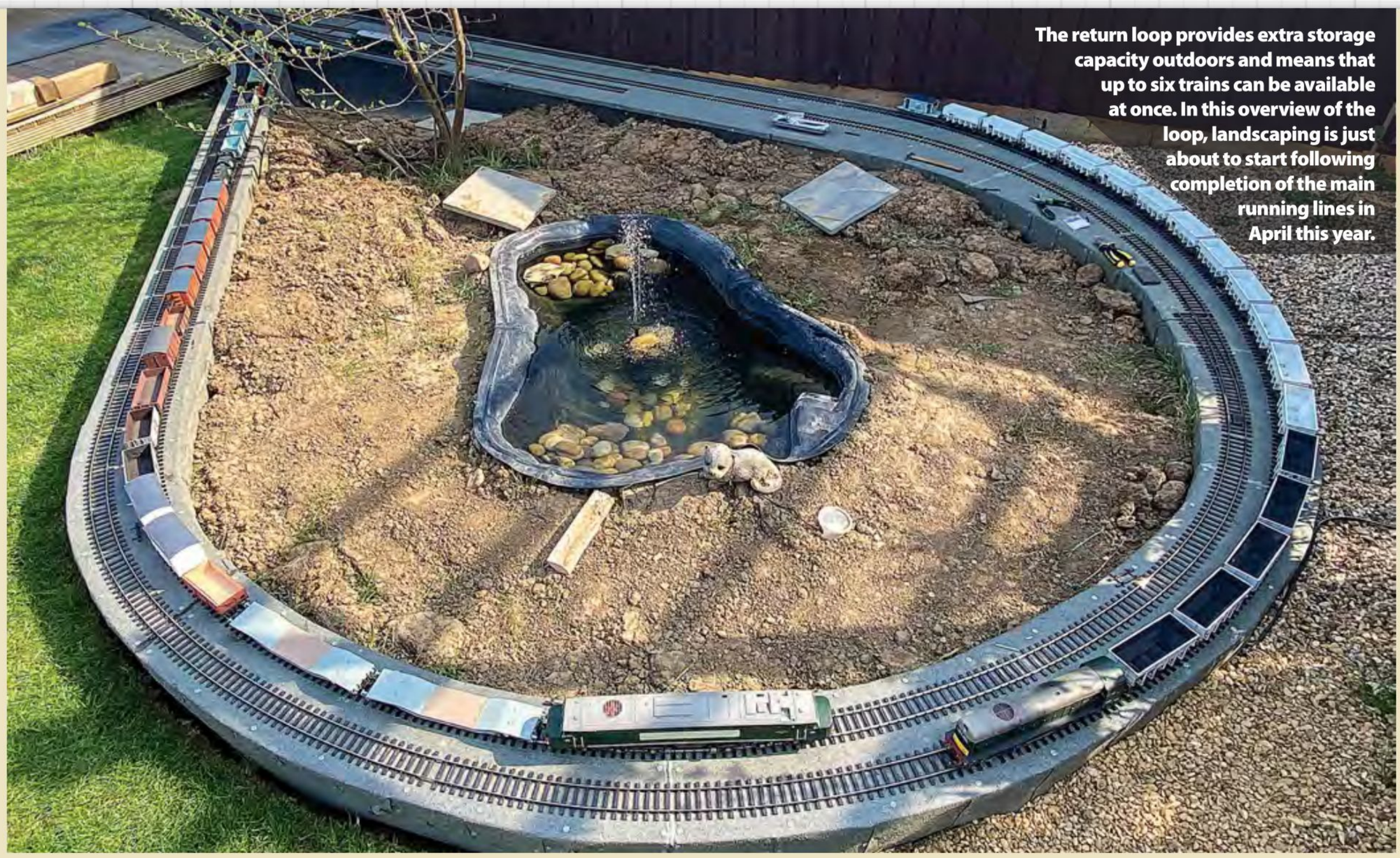
7 Throughout the construction phase the alignment was checked and double checked. Here the straight section leading to the junction is positioned against the second half of the curve across the ground.

8 The ground has now been cut away under the full route of the return loop and the trackbed has been temporarily positioned using chocks of wood to support it at roughly the right height so the final section can be built.

9 With the framework complete, the 18mm plywood surface panels were marked out ready to be cut to fit. The return loop features a double track layout throughout continuing the theme of the main line from the garage to the junction.

10 Like the frame, the plywood panels were treated with fence paint and then sealed with PVA glue on both faces and all edges to keep moisture out. Both of the panels with points for the junction have been designed to be removable for maintenance.

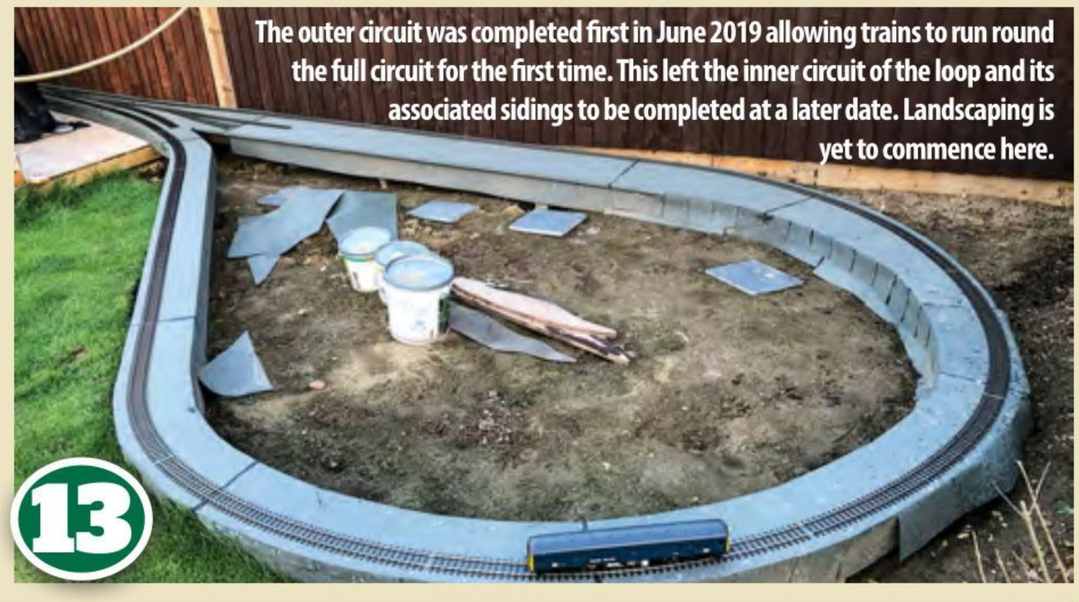
11 The completed trackbed is mounted on 75mm x 75mm fence posts at 4ft intervals around the curve. A greater number of supports were needed around the curve to maintain its shape and levels.



The return loop provides extra storage capacity outdoors and means that up to six trains can be available at once. In this overview of the loop, landscaping is just about to start following completion of the main running lines in April this year.

12

As with the straight sections shown in HM157, all of the trackbed was wrapped with roofing felt pinned down with roofing felt nails. All edges were sealed with roofing felt sealant to keep moisture out and now track laying has started.



The outer circuit was completed first in June 2019 allowing trains to run round the full circuit for the first time. This left the inner circuit of the loop and its associated sidings to be completed at a later date. Landscaping is yet to commence here.

13

14

Fast-forward to April 2020 and the remaining trackwork has been started. The large gap between the two main running lines here allows space for a platform at a later date. A metre-long ruler was used to ensure the tracks ran perfectly in line with each other.

15

Trackwork continues with the addition of two further tracks. The nearest is a dead end sidings while the line with the Class 05 on it forms an extra loop with the third line in to enhance operation. The rails were all given bonding wires, as shown in HM157.

WHAT WE USED

- 18mm x 69mm planed softwood
- 44mm x 4mm planed softwood
- 75mm x 75mm fence posts
- 18mm plywood
- Postfix ready mixed concrete
- 65mm decking screws
- 85mm decking screws
- 40mm wood screws
- Roofing felt
- Roofing felt sealant
- Roofing felt nails

HORNBY Magazine

SHOW GUIDE

Welcome to the *Hornby Magazine* Show Guide – your guide to the exhibitions that are taking place throughout the country every weekend. Due to the recent Covid-19 outbreak many model railway exhibitions have been cancelled or postponed as detailed in our listings this month. Entries marked in blue are new shows to the listing. All information is provided in good faith, and *Hornby Magazine* cannot be held responsible for any changes that may take place following publication.

JULY

CANCELLED

4/5 THE WELSH 'N' GAUGE SHOW
Hosts: North Wales Area Group N Gauge Society

CANCELLED

11 HEYWOOD MODEL RAILWAY GROUP OPEN DAY
Hosts: Heywood Model Railway Group

CANCELLED

11/12 MIDDLETON RAILWAY (LEEDS) MODEL RAILWAY EXHIBITION
Hosts: Middleton Railway

CANCELLED

18 STIBBARD (NORFOLK) MODEL RAILEX
Hosts: Stibbard Village Hall and Methodist Church

CANCELLED

18/19 RAILEX NE 2020
Hosts: Blythe and Tyne Model Railway Society

CANCELLED

19 GAINSBOROUGH MODEL RAILWAY SOCIETY – OPEN DAY
Hosts: Gainsborough Model Railway Society

CANCELLED

25/26 COLWYN MODEL RAILWAY CLUB EXHIBITION
Hosts: Colwyn Model Railway Club

CANCELLED

25/26 SOUTH COAST MODEL RAILWAY CLUB EXHIBITION
Hosts: South Coast Model Railway Club

AUGUST

CANCELLED

1/2 REDCAR MODEL RAIL 2020
Hosts: Cleveland Model Railway Club

CANCELLED

8 BEXHILL MODEL RAILWAY EXHIBITION
Hosts: Bexhill Model Railway Club

DECISION AWAITED

8 THE EAST ANGLIA GARDEN RAILWAY SHOW
Hosts: Bressingham Steam Museum
Location: Bressingham Steam Museum, Diss Road, Norfolk IP22 2AA
Times: 10.30am-5pm
Prices: Adults £7
Website: *www.bressingham.co.uk*
Contact: 01379 686912
Features: Ten layouts and trade support.

CANCELLED

8 HEYWOOD MODEL RAILWAY GROUP OPEN DAY
Hosts: Heywood Model Railway Group

POSTPONED

15/16 CRICH MODEL BUS, TRAM AND RAILWAY EXHIBITION
Hosts: Crich Tramway Village

CANCELLED

22 SILVERFOX DCC MODEL RAILWAY CLUB EXHIBITION
Hosts: Silverfox DCC Model Railway Club

CANCELLED

22/23 HEART OF THE MIDLANDS MODEL RAILWAY EXHIBITION
Hosts: Soar Valley Model Railway Club

POSTPONED

22/23 PICKERING MODEL RAILWAY EXHIBITION
Hosts: Scarborough and District Railway Modellers

CANCELLED

29/30 CORRIS RAILWAY SOCIETY 25TH ANNUAL EXHIBITION
Hosts: Corris Railway Society

CANCELLED

29-31 GAINSBOROUGH MODEL RAILWAY SOCIETY – OPEN DAYS
Hosts: Gainsborough Model Railway Society

SEPTEMBER

CANCELLED

5/6 LIVERPOOL MODEL RAILWAY SOCIETY EXHIBITION
Hosts: Liverpool Model Railway Society

DECISION AWAITED

6 BRESSINGHAM MODEL RAILWAY SHOW
Hosts: Bressingham Steam Museum
Location: Bressingham Steam Museum, Diss Road, Norfolk IP22 2AA
Times: 10.30am-5pm
Prices: Adults £7
Website: *www.bressingham.co.uk*
Contact: 01379 686912
Features: Twenty layouts and trade support.

DECISION AWAITED

12 HEYWOOD MODEL RAILWAY GROUP OPEN DAY
Hosts: Heywood Model Railway Group
Location: Club Rooms, Unit 4, Park Works, River Street, Heywood, Lancashire OL10 4AB
Times: 10am-4pm
Prices: Free (donation to club appreciated)
Website: *www.hmrg.co.uk*
Features: Layouts, refreshments and parking.

12 ROMILEY METHODIST MODELLERS 30TH MODEL RAILWAY EXHIBITION
Hosts: Romiley Methodist Modellers
Location: Romiley Methodist Church, Stockport Road, Romiley, Stockport, Cheshire SK6 3AH
Times: 10.30am-4.30pm
Prices: By donation
Website: *www.rmrmclub.com*
Features: Layouts and trade support.

CANCELLED

12/13 FAVERSHAM MODEL RAILWAY EXHIBITION
Hosts: Faversham Model Railway Club

12/13 INTERNATIONAL 'N' GAUGE SHOW
Hosts: Meridienne Exhibitions
Location: Warwickshire Event Centre, The Fosse, Fosse Way, Leamington Spa CV31 1XN
Times: Sat 10am-5pm, Sun 10am-4pm
Prices: Adults £11 (£10.50), concessions £10.50 (£10), children £5.50 (£5) – online ticket prices in brackets
Website: *www.ngaugeshow.co.uk*
Features: 30 'N' gauge layouts, trade support, societies, displays, refreshments and parking.

PLANNING AN EXHIBITION? LET US KNOW!

● Is your club or society planning a model railway exhibition? *Hornby Magazine's* Show Guide is a free listing that allows you to promote a forthcoming model railway show in the magazine and online. If you have a show to add to the Show Guide contact us at *Hornby Magazine* by e-mailing *hornbymagazine@keypublishing.com* please ensure you include appropriate contact details for the public as we are unable to publish listings without this.

GET MORE ONLINE!

● For more shows and the very latest listings visit *www.keymodelworld.com* for our online Show Guide.

CANCELLED

12/13 RAILWAY ENTHUSIASTS CLUB MODEL RAILWAY EXHIBITION
Hosts: Railway Enthusiasts Club

CANCELLED

12/13 SWINDON RAILWAY FESTIVAL
Hosts: STEAM – Museum of the Great Western Railway

CANCELLED

19 TRENT VALLEY MODEL RAILWAY SOCIETY EXHIBITION 2020
Hosts: Trent Valley Model Railway Society

19/20 REDDITCH MODEL RAILWAY EXHIBITION
Hosts: Redditch Model Railway Club
Location: Trinity High School, Grove Street, Redditch B98 8HB
Times: Sat 10am-5pm, Sun 10am-4.30pm
Prices: Adults £6, accompanied children free
Website: *www.redditch-mrc.com*
Features: 14 layouts, trade support, refreshments and parking.

OCTOBER

3 HILLINGDON RAILWAY MODELLERS TEST TRACK OPEN DAY
Hosts: Hillingdon Railway Modellers
Location: Yiewsley Baptist Church Hall (side entrance), Colham Avenue, Yiewsley, Hillingdon, London UB7 8HF
Times: 10am-3pm
Prices: £5
Website: *www.hillingdonrailwaymodellers.co.uk*
Contact: 020 8368 4090
Features: Three club test tracks in 'O,' 'OO' and 'N' available, DC and DCC, meet club members and refreshments.

CANCELLED

3/4 WIGAN MODEL RAILWAY EXHIBITION
Hosts: Wigan Finescale Railway Modellers

4 GAINSBOROUGH MODEL RAILWAY SOCIETY – OPEN DAY
Hosts: Gainsborough Model Railway Society
Location: Florence Terrace, Gainsborough, Lincolnshire DN21 1BE
Times: 1.30pm-5.30pm
Prices: Adults £4, concessions £3, children £3, family (2+2) £10
Website: *www.gainsboroughmodelrailway.co.uk*
Contact: 01427 610475
Features: Showcasing the LNER in the heyday of steam, featuring dozens of 'O' gauge trains on the club's extensive East Coast layout.

DON'T MISS...

10/11 GREAT ELECTRIC TRAIN SHOW 2020
Hosts: *Hornby Magazine*
Location: Marshall Arena, Stadium MK, Stadium Way, Milton Keynes MK1 1ST
Times: Sat 10am-5pm, Sun 10am-4pm
Prices: Adults £12 (£10), children £9 (£7), family (2+3) £34 (£29) – advance ticket prices in brackets
Website: *www.greatelectrictrainshow.com*
Contact: 01780 755131
Features: Note: We are still hoping to host the Great Electric Train Show in October but due to the current COVID-19 restrictions, we are not yet able to confirm. Please visit the website for further updates.

Model Rail Baseboards

Custom made modular baseboard systems

Manufacturers of bespoke modular baseboard systems.

Our baseboards are supplied fully assembled, the legs just simply bolt on.

Made from professional furniture grade MDF the construction is open frame with a 9mm top making them light and incredibly strong and robust.

They are very stable and will not twist, warp or sag.

We custom make baseboards to order to meet your exact requirements.

We offer a complete layout service.
We can design and build your layout from start to finish.
Track laying, electrical work, point control panels.
Scenery.

Model Rail Baseboards
Unit 2 Eden Trading Estate, Monasteroris, Edenderry, Co. Offaly. R45 E791 Ireland
Tel: 00353 87 6555052 Email: sales@modelrailbaseboards.com
www.modelrailbaseboards.com

The **Lancashire & Yorkshire Railway** *Society*

Partners in excellence with the National Railway Museum

Model the LYR

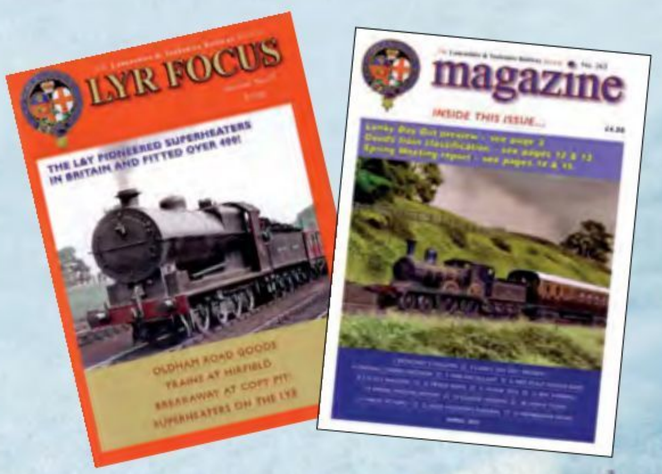
Each year our 900 plus members receive

3 LYR Focus

48 pages full of photo's & historical information

4 Magazines

24 pages in full colour with topical information and modelling articles



Plus Access to

12000 Photo's
1100 Drawings
Information service

Membership £35 annually

International members £45

Join online lyrs.org.uk

Ken Carter Membership Officer
11 Waveney Close
Arnold, Nottingham NG5 6QH
membership@lyrs.org.uk

White Rose ModelWorks

PREMIUM MANUFACTURERS OF MODEL RAILWAY BASEBOARDS

MODULAR LASER CUT BASEBOARDS

40 standard sizes to suit your space & needs
Control shelves & Backscenes
Unique plug and latch system for easy joining

LASER CUT DRAWERS AND PLINTHS

We provide a range of modeller's Plywood Laser Cut Drawers ideal for storage of engines, rolling stock, paints or modelling equipment.

MODULAR LASER CUT BASEBOARDS

40 standard sizes to suit your space and needs
Control shelves and Backscenes
Unique plug and latch system for easy joining

Available in kit form, built-up boards or fully assembled railways

Unit 10, Bedale Station, The Bridge, Bedale,
North Yorkshire DL8 1BZ • Tel: **01677 422444**
Email: **info@whiterosemodelworks.co.uk**
www.whiterosemodelworks.co.uk

THIS MONTH AT Hattons

MODEL RAILWAYS

Compiled between 12th May & 12th June 2020

Latest News

Gaugemaster Track Cleaners

Gaugemaster have announced a new batch of their popular OO track cleaner, including a re-run in Network Rail and a new BR bauxite liveried model.

www.hattons.co.uk/tmah89

Dapol LSWR B4 New Batch

Dapol's new batch of B4 0-4-0T locos are expected to arrive in stock during May. Included are popular re-run liveries & exciting new industrial colour schemes.

www.hattons.co.uk/tmah87

Heljan L&B 2-4-2T Painted Samples

Heljan's have shown painted samples for their entire range of new Lynton & Barnstaple Baldwin 2-4-2T locomotives in OO9! Due in stock by Q3 2020.

www.hattons.co.uk/tmah90

Heljan O Mk2 Coaches Update

Heljan have announced that they will also produce FK coaches. They have also confirmed the RRP as well as other details for this new range.

www.hattons.co.uk/tmah88

Hornby GWR Large Prairie 2-6-2T

The first of Hornby's highly anticipated newly tooled Large Prairie locomotives are set to arrive in stock during June 2020 covering GWR & BR liveries.

www.hattons.co.uk/tmah91

Dapol Class 142 New Batch

Dapol have announced a new batch of their N gauge Pacer, with new liveries covering the 142 in earlier guises and a few modern liveries too.

www.hattons.co.uk/tmah92

Top 5 Best Sellers

1

Key Publishing
KeyLiveriesVol3 - £7.99

2

OO

Atlas Editions
4642101 - £3.50

3

OO

Dapol
4D-009-006 - £79

4

OO

Hornby
R4624 - £12

5

OO

Hattons Originals
H4-66-031 - £150

/hattonsmodelrailways /hattonsmodels /hattonsmodelrailways /hattonshobbies

Forthcoming Releases

See more at www.hattons.co.uk and follow us on social media!

dapol

See all forthcoming Dapol items:
hattons.co.uk/dapolpreorders

GWR Class 78xx Manor 4-6-0
Stage: Newly Announced
Due: TBC
Price: from £135.96
hattons.co.uk/dapolmanor

British Rail Class 59
Stage: Painted Samples
Due: Summer 2020
Price: from £131.71
hattons.co.uk/dapol59

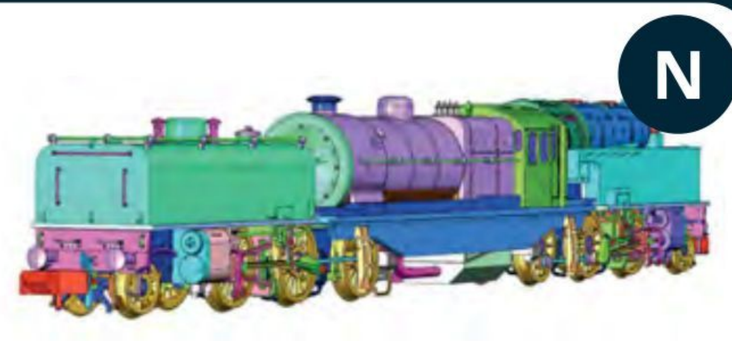
GWR Class 43xx Mogul 2-6-0
Stage: Painted Samples
Due: Summer 2020
Price: from £135.96
hattons.co.uk/dapol43xx

Hattons Originals

Explore the full Hattons Originals range:
hattons.co.uk/originals

Plasser GPC 12t Crane
Stage: CADs Shown
Due: Q1 2021
Price: £69
hattons.co.uk/gpc

Genesis 4 & 6 Wheel Coaches
Stage: Artwork Shown
Due: from Q1 2021
Price: from £36
hattons.co.uk/genesis



LMS Beyer Garratt
Stage: CADs Shown
Due: TBC
Price: £199
hattons.co.uk/ngarratt

HELJAN

See all forthcoming Heljan items:
hattons.co.uk/heljanpreorders

Lynton & Barnstaple 2-4-2T
Stage: Painted Samples
Due: Q3 2020
Price: £203.96
hattons.co.uk/landb242t

British Rail Class 25
Stage: Prototypes Shown
Due: Q3 2020
Price: from £152.96
hattons.co.uk/253

British Rail Class 47
Stage: Hand Painted Samples
Due: Q4 2020
Price: £594.15
hattons.co.uk/helo47

HORNBY

Explore the full Hornby 2020 range:
hattons.co.uk/hornby2020

Standard 2MT 2-6-0
Stage: Prototype Shown
Due: Jan 2021
Price: £162
hattons.co.uk/hornby2mt

British Rail Class 91
Stage: Renders Shown
Due: December 2020
Price: £153
hattons.co.uk/hornby91

LNER Thompson A2/2 & A2/3
Stage: CADs Shown
Due: Late 2020 to Early 2021
Price: £171
hattons.co.uk/thompsona2

Sign up to our weekly newsletter at hattons.co.uk/mailinglist

17 Montague Road, Widnes, WA8 8FZ
T: 0151 733 3655 E: info@hattons.co.uk

OO Gauge (1:76 Scale)

Steam locos

H4-AB14-001 Andrew Barclay 0-4-0ST 14" 2047 '705' BR black early emblem (Hat) **£99**

H4-AB14-002 Andrew Barclay 0-4-0ST 14" 2047 '705' in GWR green shirtbutton roundel (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
H4-AB16-001 Andrew Barclay 0-4-0ST 16" 2244 'No.10' NCB lined black (Hat) . . . **£99**

266218 Beyer Garratt 2-6-0 0-6-2 47978 in BR black early emblem and revolving coal bunker (Hel) £212

266215 Beyer Garratt 2-6-0 0-6-2 4982 in LMS black revolving coal bunker (Hel) £212

266214 Beyer Garratt 2-6-0 0-6-2 4984 in LMS black original coal bunker - lightly weathered (Hel) £221

266222 Beyer Garratt 2-6-0 0-6-2 4986 in LMS workshop photographic grey revolving coal bunker (Hel). £212

266213 Beyer Garratt 2-6-0 0-6-2 4993 in LMS black original coal bunker (Hel) £212
4781 Class 47xx 2-8-0 'Night Owl' 4705 GWR green Great Western lettering (Hel) **£154**

R3409 Class 6000 King 4-6-0 6002 "King William IV" in BR Green late crest (Hor) (RRP £182.99)BARGAIN. . . £129

R3408 Class 6000 King 4-6-0 6016 "King Edward V" in GWR Green shirtbutton emblem (Hor) (RRP £182.99)BARGAIN . £129

R3633 Class 7P 'Rebuilt Patriot' 4-6-0 45534 "E. Tootal Broadhurst" in BR green early emblem (Hor) £144
R3565 Class 8F 2-8-0 8035 in LMS black (Hor). **£127.50**

R3681 Class 8P 'Princess Coronation' 4-6-2 6241 "City of Edinburgh" in LMS post-war lined black (Hor) (RRP £204.99) . . . . . BARGAIN. . . . £144

R3715 Class 8P 'Streamlined Coronation' 4-6-2 6224 "Princess Alexandra" 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) (RRP £189.99) . . . . . BARGAIN. £139.50
R3639 Class 8P 'Streamlined Coronation' 4-6-2 6244 "King George VI" in LMS crimson lake (Hor) (RRP £189.99). . . . . **BARGAIN . . £139.50**

R3713 Class 8P Princess Royal 4-6-2 46207 "Princess Arthur of Connaught" in BR maroon (Hor) £171
R3713X Class 8P Princess Royal 4-6-2 46207 "Princess Arthur of Connaught" in BR maroon - Digital fitted (Hor). **£184.50**

R3709 Class 8P Princess Royal 4-6-2 6201 "Princess Elizabeth" in LMS crimson lake (Hor). £171

R3617 Class 8P Rebuilt Merchant Navy 4-6-2 35030 "Elder Dempster Lines" in BR green late crest (Hor) £144

R3811 Class A1 Terrier 0-6-0T 48 "Leadenhall" in LB&SCR improved engine green (Hor) £81

R3812 Class A1 Terrier 0-6-0T W10 "Cowes" in Southern Railway olive green (Hor). £81

R3738 Class A3 4-6-2 4472 "Flying Scotsman" in LNER green - 1969 USA tour condition two tenders - Gold plated (Hor) . . . £234

R3737 Class A4 4-6-2 60022 "Mallard" in BR blue early emblem (Hor) £162
R3545 Class B12/3 4-6-0 61556 in BRITISH RAILWAYS black (Hor) **£145**
R3544 Class B12/3 4-6-0 8527 in LNER apple green (Hor). **£145**

R3447 Class B17 4-6-0 2842 "Kilverstone Hall" in LNER green (Hor) (RRP £160.99) . . . . . BARGAIN. . . . £114
R3588 Class B17 4-6-0 2864 "Liverpool" LNER green - Railroad Range (Hor) . **£81**

R3416 Class J15 0-6-0 65464 in BR Black late crest (Hor) (RRP £127.99) . . . . . BARGAIN. . . . £79

R3415 Class J15 0-6-0 65477 in BR black early emblem (Hor) (RRP £127.99) . . . . . BARGAIN. . . . £79

R3621 Class J36 0-6-0 722 in LNER black (Hor) (RRP £139.99) . . . . . BARGAIN. . . . £99
R3406 Class J50 0-6-0T Departmental No.14 in BR Black late crest (Hor) (RRP £93.99). . . . . **BARGAIN £69**

R3417 Class K1 2-6-0 62065 in BR black late crest (Hor) (RRP £155.99) . . . . . BARGAIN. . . . £99

R3461 Class L1 Thompson 2-6-4T 67702 in LNER apple green (Hor) (RRP £155.99) . . . . . BARGAIN. . . . £114

R3635 Class LN 'Lord Nelson' 4-6-0 30863 "Lord Rodney" in BR green early emblem (Hor) (RRP £169.99)BARGAIN . £124

R3634 Class LN 'Lord Nelson' 4-6-0 851 "Sir Francis Drake" in Southern Railway olive green (Hor) (RRP £169.99)BARGAIN . . £124

R3413 Class S15 4-6-0 30831 in BR Black late crest (Hor) (RRP £154.99) . . . . . BARGAIN. . . . £99

R3412 Class S15 4-6-0 30842 in BR Black early emblem (Hor) (RRP £154.99). . . . . BARGAIN. £99

R3680 Class W4 Peckett 0-4-0ST 'Forest No.1' in Charity Colliery lined green (Hor). £90

4S-018-010 LSWR Class B4 0-4-0T "Sussex" in Stewarts and Lloyds Ltd yellow (Dap) NEW £93.50
4S-018-010D LSWR Class B4 0-4-0T "Sussex" in Stewarts and Lloyds Ltd yellow - Digital fitted (Dap) **NEW** **£115.33**

4S-018-008D LSWR Class B4 0-4-0T 100 in SR lined black - Digital fitted (Dap) NEW. £119

4S-018-007D LSWR Class B4 0-4-0T 176 "Guernsey" in LSWR Southampton docks lined green - Digital fitted (Dap) NEW .£119

4S-018-011 LSWR Class B4 0-4-0T 30084 in BR black early emblem (Dap) NEW. £93.50
4S-018-011D LSWR Class B4 0-4-0T 30084 in BR black early emblem - Digital fitted (Dap) **NEW** **£119**

4S-018-009 LSWR Class B4 0-4-0T 87 in SR wartime black (Dap) NEW. £93.50
4S-018-009D LSWR Class B4 0-4-0T 87 SR wartime black - Digital fitted (Dap) **NEW** **£119**

H4-P-001 SECR P Class 0-6-0T 178 in SE&CR full lined green (with brass) (Hat) £99

H4-P-011 SECR P Class 0-6-0T 27 "Primrose" in Bluebell Railway lined black (1960s) (Hat) £99

H4-P-015 SECR P Class 0-6-0T 27 in SE&CR full lined green (with polished brass) (Hat) £99

H4-P-007 SECR P Class 0-6-0T 31027 in BR black early emblem (Hat). £99
H4-P-002 SECR P Class 0-6-0T 753 SE&CR full lined green (with brass) (Hat) **£99**

R3500 The Sir Nigel Gresley Collection (Hor) £474

Diesel locos

30-375 Avro Vulcan Collector's Pack - Class 37/4 37558 "Avro Vulcan XH558" in BR large logo blue and pair of N scale Avro Vulcans (Bac). £184

2930 Class 07 shunter 07001 in Harry Needle Railroad Company - Exclusive to Hattons Model Railways (Hel) (RRP £139). . . . . BARGAIN. . . . £94
2905 Class 07 shunter D2988 in BR green wasp stripes (Hel) . . . **£118.96**

1722 Class 17 'Clayton' 8546 in BR green full yellow ends (Hel) £118.96

4D-025-004S Class 21 D6111 in BR green small yellow panels - DCC sound fitted (Dap) NEW £249.84
4D-025-003 Class 21 D6116 in BR green small yellow panels (Dap) . . **£129.15**

4D-025-003S Class 21 D6116 in BR green small yellow panels - DCC sound fitted (Dap) NEW £249.84
4D-025-002 Class 21 D6120 in BR green (Dap) **£129.15**

4D-025-002S Class 21 D6120 in BR green - DCC sound fitted (Dap) NEW. £249.84

4D-025-001S Class 21 D6121 in BR green - DCC sound fitted (Dap) NEW. £249.84
2716 Class 27 27030 BR blue Scottie Dog emblem - lightly weathered (Hel) . . **£127.46**
4D-014-000 Class 29 6112 in BR green full yellow ends (Dap) . . . **£129.15**
4D-014-003 Class 29 D6107 in BR blue (Dap) **£129.15**

4D-014-002 Class 29 D6129 in BR blue (Dap) . . £129.15

Helpdesk Now Open: 24hrs, 7 days a week!

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)

3440 Class 33/0 twin pack 33050 "Isle of Grain" and 33051 "Shakespeare Cliff" in Railfreight Construction Sector triple grey (Hel) £253.30

3361Hel Class 33/1 33110 in BR blue orange cantrail stripe (Hel) £126.65
3360 Class 33/1 33119 in BR blue white cab surrounds (Hel) £126.65
3526 Class 35 'Hymek' D7015 in BR green no yellow ends (Hel) . £110.46

4D-003-014 Class 52 'Western' D1008 "Western Harrier" in BR maroon yellow bufferbeams (Dap) £129.15
4D-003-013 Class 52 'Western' D1035 "Western Yeoman" in BR green small yellow panels (Dap) £129.15

BARGAIN

R3473 Class 56 56108 in Railfreight red stripe (Hor) (RRP £170.99) . . . . . BARGAIN £121
R3605TTS Class 60 60044 "Dowlow" DB Schenker red - TTS sound fitted (Hor) £184.50

H4-66-001 Class 66 66005 in EWS (Hat) £150

H4-66-008 Class 66 66033 in Euro Cargo Rail EWS branding (Hat) £150
H4-66-002 Class 66 66079 in EWS "James Nightall G.C." (Hat) £150
H4-66-005 Class 66 66088 in EWS DB branding (Hat) £150

H4-66-006 Class 66 66097 in DB Schenker (Hat) £150
H4-66-007 Class 66 66118 in DB Schenker (Hat) £150

H4-66-003 Class 66 66125 in EWS (Hat) £150
H4-66-004 Class 66 66207 in EWS (Hat) £150
H4-66-009 Class 66 66218 in Euro Cargo Rail DB branding (Hat) . . £150
H4-66-010 Class 66 66404 in DRS compass (Hat) £150
H4-66-019 Class 66 66418 in Freightliner Powerhaul "Patriot" (Hat). £150

H4-66-013 Class 66 66429 in DRS plain (Hat) £150

H4-66-011 Class 66 66433 in DRS compass (Hat) . . . £150
H4-66-014 Class 66 66502 Freightliner "Basford Hall Centenary 2001" (Hat) . £150

H4-66-020 Class 66 66504 in Freightliner Powerhaul (Hat) . £150

H4-66-015 Class 66 66513 in Freightliner (Hat) £150
H4-66-021 Class 66 66528 in Freightliner Powerhaul "Madge Elliot MBE - Borders Railway Opening 2015" (Hat) £150
H4-66-016 Class 66 66593 Freightliner "3MG Mersey Multimodal Gateway" (Hat) £150
H4-66-017 Class 66 66621 in Freightliner (Hat) £150

H4-66-022 Class 66 66704 in GBRf original (Hat) £150
H4-66-023 Class 66 66705 GBRf original Union Flag "Golden Jubilee" (Hat) . £150

H4-66-024 Class 66 66727 in GBRf/First group "Andrew Scott CBE" (Hat) £150
R3916 Class 66 66733 'Cambridge PSB' in GBRf (Hor) £74.99
H4-66-026 Class 66 66740 in GBRF Europorte "Sarah" (Hat) £150

H4-66-027 Class 66 66756 in GBRF Europorte "Royal Corps of Signals" (Hat) £150
H4-66-028 Class 66 66762 in GBRF Europorte (Hat) £150

H4-66-031 Class 66 66789 in BR Large Logo blue GBRf branding "British Rail 1948 - 1997" (Hat) £150

H4-66-029 Class 66 66847 in Colas Rail Freight (Hat) £150
H4-66-030 Class 66 66848 in Colas Rail Freight (Hat) £150

H4-66-018 Class 66 66957 in Freightliner "Stephenson Locomotive Society 1909 - 2009" (Hat). £150
R3659 Class 67 67027 "Charlotte" in Colas Rail Freight (Hor) £144
4D-006-011 Class 73/1 73109 "Battle of Britain" Network SouthEast (Dap) £124.29
4D-006-005 Class 73/1 electro-diesel E6039 in BR blue small yellow panels (Dap) (RRP £146.22) . . . . . BARGAIN £91

R3705 Ruston 48DS 458957 in John Dewar and Sons red match wagon (Hor) £72

BARGAIN

GV2020 YEC Janus 0-6-0DE shunter "Richard Borrett" in ICI maroon (GoI) (RRP £99.95) . . . . . BARGAIN . . £49.50

Diesel train packs

1095 Class 33 trainpack Class 33/0 33010 in BR blue and four A tank wagons in grey fuel oil - weathered (Hel) £203.15
1097 Class 33 trainpack Class 33/0 D6560 in BR green full yellow ends and four 'B' tank wagons in Esso - weathered (Hel) £203.15

R3697 Northern Belle train pack Class 57/6 57601 "Windsor Castle" and three Mk2D coaches in Northern Belle (Hor) . . . £135

HSTs

R3698 Pair of Class 43 HST Power Cars 43033 and 43183 in Scotrail "7 Cities" (Hor) £261

Electric locos

BARGAIN

OO71-004HAT Class 71 E5013 in BR Blue full Golden Arrow headboards, arrows and flags pre-fitted - Exclusive to Hatton's (DJ) (RRP £139.95) BARGAIN . . . £96

R3582 Class 87 87010 "King Arthur" in Intercity Swallow (Hor) £144
R3580 Class 87 87035 'Robert Burns' in BR Blue (Hor) £144

DMUs

BARGAIN

4D-009-HAT01 Class 121 single car DMU 'Bubblecar' 120 in 'GWR 150' chocolate and cream - Hatton's limited edition (Dap) (RRP £129.95) . . . . . BARGAIN £99

BARGAIN

4D-009-HAT04 Class 121 single car DMU 'Bubblecar' 121020 in Chiltern Railways blue - Hatton's limited edition (Dap) (RRP £129.95) . . . . . BARGAIN £89

BARGAIN

4D-009-005 Class 121 single car DMU 'Bubblecar' 121027 "Bletchley TMD" in Silverlink purple and green (Dap) (RRP £145) . . . . . BARGAIN £79

BARGAIN

4D-009-HAT07 Class 121 single car DMU 'Bubblecar' 55022 in original Network South East - Hatton's limited edition (Dap) (RRP £129.95) . . . . . BARGAIN £99

BARGAIN

4D-009-006 Class 121 single car DMU 'Bubblecar' 55026 in BR blue and grey Highland Rail stag (Dap) (RRP £145) BARGAIN £79

BARGAIN

4D-009-HAT05 Class 121 single car DMU 'Bubblecar' 55027 in revised Network South East - Hatton's limited edition (Dap) (RRP £129.95) . . . . . BARGAIN £99

BARGAIN

4D-009-007 Class 121 single car DMU 'Bubblecar' 55032 in BR blue and grey Welsh Dragon emblem (Dap) (RRP £145) BARGAIN . . . £79

BARGAIN

4D-009-008 Class 121 single car DMU 'Bubblecar' 55032 in Midline West Midlands (Dap) (RRP £145) BARGAIN £79

BARGAIN

4D-009-009 Class 121 single car DMU 'Bubblecar' 977723 in Railtrack red and white (Dap) (RRP £145) BARGAIN £79

BARGAIN

4D-015-HAT01 Class 122 Gloucester RCW "Bubblecar" single car DMU TDB975023 in Route Learning BR blue - Hatton's limited edition (Dap) (RRP £129.95) BARGAIN £99
4D-015-009 Class 122 single car DMU 'Bubblecar' W55006 in BR green small yellow panels (Dap) £123.25

4D-015-008 Class 122 single car DMU 'Bubblecar' W55018 in BR green speed whiskers (Dap) £123.25

R3575 Class 153 single car DMU 153379 in ex-Central Trains green East Midlands Trains branding (Hor) £94

R3773 Class 156 2-car 'Super Sprinter' DMU 156401 in Provincial (Hor) £112.50

4D-011-100 Streamlined Parcels Railcar 17 in GWR chocolate and cream Express Parcels branding (Dap) £125.76

4D-011-008 Streamlined Railcar W8W in BR crimson and cream (Dap) £125.76

EMUs

R3699 Class 2-HIL 2 car EMU in BR green (Hor) £126

Track Maintenance vehicles

38-803 45 ton Ransomes and Rapier crane in BR red (Bac) £230

38-801 45 ton Ransomes and Rapier crane in GWR grey (Bac) £230

B800 Non-motorised OO Track Cleaner motorised cleaning heads & vacuum in blue (Dap) £64

Train sets - analogue

R1269 "Stay at Home" - Hornby trainset hamper (Hor) . . £180

R1167 'Flying Scotsman' starter train set 4472 "Flying Scotsman" loco in LNER green and three Gresley teak coaches (Hor) £157

R1214 East Coast Express Train Set (Hor) £157.50

R1242 Saturday Special Plus train set LNER B17 4-6-0 in BR green and 4 Mk1 coaches - Hornby 'Signature' Collection (Hor) £324

Visit

www.hattons.co.uk/new

for all new releases

R1234 Starter train set - "Hogwarts Express" - Harry Potter range (Hor). £180

Train sets - digital

30-420 Western Pullman train set Class 251 Blue Pullman in revised DCC sound and DCC Railcontroller (Bac) .£874

Coaches

R4904 K type Pullman "New Century Bar" in Pullman umber and cream (Hor) £53.50
39-677 Mk2F "Aircon" TSO tourist second open in Intercity (Bac). . £46.71

NEW

R4941A Mk3 'Sliding door' TCC trailer catering composite in Cross Country Trains (Hor) NEW. . . . £31.50

NEW

R4938A Mk3 'Sliding door' TGS trailer guard second in Cross Country Trains (Hor) NEW £31.50
R4897 Pack of three centre coaches for Class 800 IEP Hitachi Test Train (Hor) £179.99

Wagons

H4-FEAE-005A FEA-E intermodal wagon 641025 in Freightliner green track panel carriers (Hat) £50

H4-FEAS-001A FEA-S intermodal wagon 640666 in GBRf blue (Hat). £32
R6829 PGA Hopper Wagons, Tarmac - Three Wagon Pack (Hor) . . . £39
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-WW-001A Warwell wagon 50t diamond frame bogies MS.3 WD (GWR) (Hat). £33

Containers and loads

76CONT005CC Container Coca Cola (Oxf). £8.50

Analogue controllers

R8012 HM2000 High output power & speed controller, mains supply. (Hor) £94

Digital control accessory decoders

R8247 DCC accessory decoder (for points and motors) (Hor). £44

Digital controllers

R8213 DCC Select unit (boxed) (Hor) £98

R8312 e-LINK Module, Railmaster Software & 1 Amp Transformer (PC/Laptop Required) (Hor). £85

Digital control accessories

R8232 DCC Electro point clips (20 in a pack - 2 used per point) (Hor) (RRP £7.35). . . . . BARGAIN £3

Switches and levers

R044 Passing contact lever frame switch (for point motors) (Hor) £9

Wheel sets

R8096 12.6mm Metal disc wheels on axles (10 axles) (Hor) £14.50
R8097 Metal 3 hole disc wagon wheels on axles (10 axles) 12.6mm diameter (Hor) £14.50

Man-made scenic structure - railway-related

89121 27.4 metre (90ft) Motorised turntable - ready for installation. For HO/OO scales. DCC ready (Hel) £210
R636 Double track level crossing (Hor) £27
R460 Straight Platform (Hor) £3.50

Signals

R406 2 aspect colour light signal (Hor) £9
SSP1 Sensor Signal Starter Pack (Tra) £153
4L-001-006 Signal - motorised, GWR left hand junction bracket signal - two arms (Dap). £55.50
4L-002-001 Signal - Motorised, LMS home (OOSIGN3) (Dap) £26
4L-001-003 Signal - Motorised, Round post GWR home (Dap). £26

People - civil

36-407 1950s train crew - pack of six (Bac) £8.50

Track - Code 100 Setrack

R8090 1 single yard length of Semi-Flexible Track (Hor). £4
R8090 Pack of 24 (Hor) £92
R605 1st radius double curve (8 make a circle) (Hor) £2.60
R605 Circle of 8 (Hor). £20
R606 2nd radius curve (Hor) £1.80
R607 2nd radius double curve track (8 make a circle) (Hor) £2.60
R607 Circle of 8 (Hor). £20
R609 3rd radius double curve track (8 make a circle) (Hor). £2.70
R609 Circle of 8 (Hor). £20

R070 Electrically Operated Turntable (Hor). £64
R8223 Extension Pack C. Contains 1 x R8073, 2 x R600, 4 x R607, 1 x R606 (Hor) £24.50
R8226 Extension Pack F. Contains 1 x R8072, 1 x R8073, 2 x R600, 2 x R606, 1 x R083 (Hor) £24.50

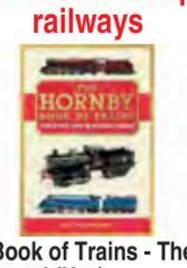
R8074 Left hand curved point (Hor) £15
R8077 Left hand Express point (Hor). £15

R8072 Left Hand Standard Point (Hor). £9.50

R8075 Right hand curved point (Hor). £15
R615 Right hand diamond crossing (Hor) £11

R8073 Right Hand Standard Point (Hor). £9.50
R600 Standard Straight (Hor). £1.80
R600 Box of 24 (Hor) £40

Publications - model and prototypical railways



R8158 The Hornby Book of Trains - The Centenary Edition by Pat Hammond (Hor) £24.99

Buses

NEW

UK0063 ADL Enviro400 MMC - "Ensignbus" (Nor) NEW . £51

Cars

NEW

76RREC003 Range Rover Evoque Convertible Fuji White (Oxf) NEW. £5.50

OO9 Narrow Gauge

Steam locos

BARGAIN

9953 Lynton & Barnstaple 2-6-2T E760 "Exe" in intermediate Southern Railway (1927-29) (Hel) (RRP £209.95)BARGAIN. .£154

N Gauge

Steam locos

2S-009-007 Class 2884 2-8-0 3822 in BR black late crest (Dap) . .£124

2S-010-006 Class 49xx 'Hall' 4-6-0 5999 "Woolaton Hall" in BR green late crest (Dap) £124.38
2S-007-013 Class 57xx Pannier 0-6-0 9744 in British Railways green (Dap) . £74
2S-007-016D Class 57xx Pannier 0-6-0PT 8767 in BR green British Railways lettering & later cab - DCC Fitted (Dap) £100
2S-008-010 Class A4 4-6-2 4482 "Golden Eagle" LNER apple green valances (Dap) £124.38

2S-008-009 Class A4 4-6-2 4490 "Empire of India" in LNER garter blue valances (Dap) £124
2S-008-007 Class A4 4-6-2 60033 "Seagull" BR green early emblem (Dap) £124

Diesel locos

2D-012-010 Class 22 diesel loco D6326 in BR green no yellow panels & disc headcodes (Dap). £125.89

2D-028-003 Class 26 26024 in BR blue scottie dog emblem (Dap) £112.76

2D-028-001 Class 26 D5316 in BR green (Dap) . . . £112.76
2D-001-005 Class 33/0 33020 in BR blue (Dap) £112.76

2D-001-008 Class 33/0 D6561 in BR Green full yellow ends (Dap). £112.76

2D-001-023D Class 33/1 33112 "Templecombe" in BR blue black window surrounds - Digital fitted (Dap) £138.24

2D-001-022D Class 33/1 33114 "Ashford 150" in Network South East blue - Digital fitted (Dap) £138.24
2D-002-003 Class 50 50037 "Illustrious" original Network SouthEast (Dap) £123.21
2D-002-000 Class 50 D406 in BR blue - unrefurbished (Dap) £123.21

2D-007-011 Class 66/0 66002 in EWS DB branding and six megafret container wagons (Dap). £194.64
2D-007-008D Class 66/0 66114 in DB Schenker red - DCC fitted (Dap) .£115.40

2D-010-008 Class 67 67006 "Royal Sovereign" in Royal Train claret DB logos (Dap). £108.76

2D-022-009 Class 68 68019 "Brutus" in TransPennine Express (Dap) £119.85
2D-022-011 Class 68 68034 in Direct Rail Services blue (Dap). . . £119.85

DMUs

2D-009-004 Class 121 'Bubble Car' DMU 121032 Arriva Trains Wales (Dap) £114
2D-015-001 Class 122 diesel railcar W55000 BR green speed whiskers (Dap) . . . £114
2D-021-003 Class 156 156403 in Regional Railways express Central Trains branding (Dap). £114.71

Coaches

2P-012-253 Pack of three Maunsell coaches - Set 394 - brake third, brake third and compartment third in SR olive green (Dap) £71

Lighting equipment

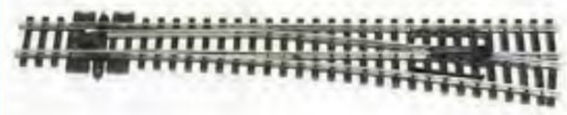
2A-000-042 Light Bar coach lighting unit for modern coaches and multiple units (cool white) (Dap). £8.50

Track - Code 80 Setrack

ST-15 No.2 radius double curve (Pec) £2

Track - Code 80 Streamline

SL-E396 Left hand medium point electrofrog (Pec) . £9.50
SL-396 Left hand medium point insulfrog (Pec). £9.50



SL-388 Right hand large point insulfrog (Pec) £10.50

Track - Code 55 Finescale

SL-302F 1 Yard of Nickel Silver Flexible Track Concrete Sleepers (Pec). . £3.50
SL-302F Pack of 30 (Pec) £99
SL-E386F Finescale curved double radius right hand point electrofrog (Pec) £12

Commercial vehicles

NEW

NMB007 Mercedes Actros Curtainside McGawn Bros (Oxf) NEW£13

O Gauge (1:43 Scale)

Steam locos

7S-006-021 Class 14xx 0-4-2T 1405 in BR black early emblem (Dap) £191.25

7S-006-023 Class 14xx 0-4-2T 1426 in BR lined green late crest (Dap). £191.25
7S-006-023D Class 14xx 0-4-2T 1426 BR lined green late crest - DCC Fitted (Dap). £216.75
7S-006-022D Class 14xx 0-4-2T 1444 in BR lined green early emblem - DCC Fitted (Dap) £216.75
7S-006-022U Class 14xx 0-4-2T BR lined green early emblem - unnumbered (Dap) £191.25

4313 Class 43xx Mogul 2-6-0 5306 in BR unlined green late crest (Hel). £662.15
7S-006-002 Class 48xx 0-4-2T 4871 GWR unlined green shirtbutton logo (Dap). £191.25
7S-007-006 Class 57xx 0-6-0PT pannier L92 London Transport maroon (Dap). . . £205

7S-006-050 Class 58xx 0-4-2T 5811 in GWR green Great Western lettering (Dap) £191.25
7S-010-016S Class A1 'Terrier' 0-6-0T 672 "Fenchurch" in LBSCR marsh brown - DCC sound fitted (Dap). £340

7S-010-013 Class A1 'Terrier' 0-6-0T 751 in SECR green (Dap) £191.25
7S-010-013S Class A1 'Terrier' 0-6-0T 751 SECR green - DCC sound fitted (Dap) £340
7S-010-015S Class A1X 'Terrier' 0-6-0T plain black - DCC sound fitted (Dap) £340
H7-A3-001 Class A3 4-6-2 2750 "Papyrus" in LNER Grass green unstreamlined corridor tender - "Record Breaker" (Hel). £750

H7-A3-002 Class A3 4-6-2 4472 "Flying Scotsman" in LNER Grass green unstreamlined corridor tender - "Record Breaker" (Hel). £750

H7-A3-004 Class A3 4-6-2 60072 "Sunstar" in BR Express blue unstreamlined non-corridor tender (Hel). £750
H7-A3-006 Class A3 4-6-2 60077 "The White Knight" in BR green late crest and unstreamlined non-corridor tender (Hel). £750

Hattons MODEL RAILWAYS

Prices valid until 05/08/20

All prices correct when going to press. Errors excepted.

H7-A3-007 Class A3 4-6-2 60103 "Flying Scotsman" in BR green late crest and unstreamlined corridor tender (Hel) . . £750
H7-A3-006B Class A3 4-6-2 unnumbered double chimney, banjo dome and unstreamlined non-corridor tender in BR green late crest (Hel) . **£750**
H7-A3-002B Class A3 4-6-2 unnumbered single chimney, banjo dome and unstreamlined non-corridor tender in LNER Grass Green 1934-1948 (Hel) . . **£750**

H7-A4-001 Class A4 4-6-2 2509 "Silver Link" in LNER silver streamlined corridor tender (Hel) £750

H7-A4-005 Class A4 4-6-2 4464 "Bittern" in LNER Garter blue streamlined corridor tender - "Record Breaker" (Hel) £750

H7-A4-004 Class A4 4-6-2 4489 "Dominion of Canada" in LNER Garter blue steel numbers/letters and unstreamlined corridor tender (Hel) £750

H7-A4-006 Class A4 4-6-2 60007 "Sir Nigel Gresley" in BR express blue unstreamlined corridor tender - "Record Breaker" (Hel) . . £750
H7-A4-009 Class A4 4-6-2 60008 "Dwight D Eisenhower" in BR green late crest and streamlined non-corridor tender (Hel) **£750**

H7-A4-008 Class A4 4-6-2 60009 "Union of South Africa" in BR green late crest and unstreamlined corridor tender (Hel) . . £750

H7-A4-007 Class A4 4-6-2 60012 "Commonwealth of Australia" in BR green early emblem and streamlined corridor tender (Hel). £750
H7-A4-008B Class A4 4-6-2 unnumbered double chimney and streamlined non-corridor tender in BR green late crest 1958-1966 (Hel) **£750**
H7-A4-008A Class A4 4-6-2 unnumbered double chimney and unstreamlined corridor tender in BR green late crest 1958-1966 (Hel) **£750**
H7-A4-007A Class A4 4-6-2 unnumbered single chimney and streamlined corridor tender in BR green early emblem 1952-1958 (Hel). **£750**
H7-A4-001A Class A4 4-6-2 unnumbered single chimney and streamlined corridor tender in LNER silver 1935-1938 (Hel) **£750**
H7-A4-007B Class A4 4-6-2 unnumbered single chimney and streamlined non-corridor tender in BR green early emblem 1952-1958 (Hel) **£750**
H7-A4-006A Class A4 4-6-2 unnumbered single chimney and unstreamlined corridor tender in BR Express blue 1949-1952 (Hel) . **£750**

Diesel locos

2055 Class 03 shunter D2033 in BR green wasp stripes and 'flowerpot' exhaust (Hel). £335.75

7D-008-017D Class 08 shunter 08709 in EWS red and gold - DCC sound fitted (Dap) £340

7D-008-013 Class 08 shunter 08717 in BR blue (Dap) £191.25
7D-008-013D Class 08 shunter 08717 BR blue - Digital sound fitted (Dap) . **£340**

7D-008-015D Class 08 shunter 08740 in Railfreight Triple grey - DCC sound fitted (Dap) £340

7D-008-014D Class 08 shunter 08795 in Intercity - DCC sound fitted (Dap). £340
7D-008-016 Class 08 shunter 08891 in Freightliner green (Dap). . **£191.25**
7D-008-008 Class 08 shunter D3305 BR green early crest and wasp stripes (Dap) **£191.25**
7D-008-010 Class 08 shunter D3316 in BR blue (without ladder) (Dap). .**£191.25**

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 Railfreight Red Stripe headcode boxes (Hel) (RRP £599) . . . . . BARGAIN **£427**

2557 Class 25/3 in BR blue cabside arrows - unnumbered (Hel). £446.25

3400 Class 33/0 33012 in BR blue - weathered (Hel) . .£466.65
3402 Class 33/0 33030 in EWS red and gold (Hel) **£466.65**
3406 Class 33/0 D6508 "Eastleigh" in BR green - 1990s style (Hel) **£466.65**

3394 Class 33/0 in BR green small yellow panels - unnumbered (Hel). £466.65

3401 Class 33/0 in Civil Engineers 'Dutch' grey and yellow - unnumbered (Hel). £466.65
3405 Class 33/0 Railfreight Construction sector triple grey - unnumbered (Hel). . **£466.65**

3588 Class 35 'Hymek' in BR blue - unnumbered (Hel). . £421

3743 Class 37/4 in EWS maroon and gold - unnumbered (Hel). £509.15

3742 Class 37/4 in Intercity Mainline - unnumbered (Hel) £509.15

4203 Class 42 Warship D815 "Druid" in BR maroon full yellow ends (Hel) (RRP £699) . . . . . BARGAIN. . . . £495

4204 Class 42 Warship D866 "Zebra" in BR blue (Hel) (RRP £699). . . . . BARGAIN. . . . £510

4505 Class 45 'Peak' in BR early blue red bufferbeams - unnumbered (Hel) (RRP £699). . . . . BARGAIN. . . . £500

4026 Class 50 50008 "Thunderer" in BR Laira blue (1990s Railtour condition) - Exclusive to Hatton's (Hel) . . £594.15

5287 Class 52 D1039 "Western King" in BR maroon full yellow ends (Hel) £509.15

5289 Class 52 D1067 "Western Druid" in BR blue - weathered (Hel). £509.15

5505 Class 55 'Deltic' in BR green no yellow ends - unnumbered (Hel). £509.15

5503 Class 55 'Deltic' in BR green small yellow panels - unnumbered (Hel). £509.15

DMUs

8910 Class 128 parcels DMU W55991 in BR green speed whiskers (Hel) (RRP £599) . . . . . BARGAIN **£360**

Coaches

7P-004-004S GWR 59' auto coach 40 in GWR chocolate and cream - DCC sound and light bar fitted (Dap) £318.75
7P-004-004R GWR 59' auto coach 40 in GWR chocolate and cream - light bar fitted (Dap) **£212.50**
7P-004-009 GWR Diagram 'N' 59' Autocoach W36 in BR crimson (Dap). . . **£170**
7P-004-008D GWR Diagram 'N' 59' Autocoach W37W in BR crimson and cream - Digital and light bar fitted (Dap). **£232.50**

4923 Mk1 BSK brake second corridor in BR chocolate and cream - unnumbered (Hel) £169.50

Wagons

7F-016-003 10 ton banana van B880876 BR bauxite Fyffes Bananas branding (Dap) **£42.46**
7F-016-001 10 ton banana van B880889 BR bauxite Fyffes Bananas branding (Dap) **£42.46**
5152 Bogie flat IWB Cargowaggon 4647007 Corus Rail (Hel) (RRP £189) . . . . . BARGAIN **£74**

Analogue controllers

100MO Single track controller for O gauge - 2.5amp (Gau). **£80**

Bridges, Tunnels & Walls

A3003 Chain link fence gates - 121cm (Woo) NEW **£15**

Cars

VA11914 Ford Cortina Mk4 2.3S - Signal Amber (Cor) . £27

Any or Multiple Scales

Analogue controllers

COMBI Combi 12v 1Amp Single Track Controller Transformer (Gau) £34

D Double/Twin track power controller (Gau) £86
P9100 UK wall plug and Transformer for HM6000 controller (Hor) NEW **£18**

Analogue point control

CDU Capacitor Discharge Unit (Gau). **£11**

Digital decoders

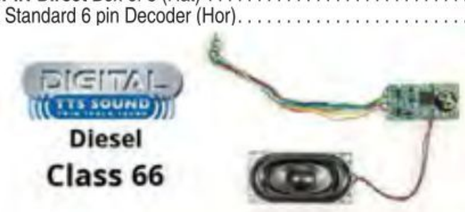
DCR-18Pin-Direct 18-pin 4-function 1.1Amp direct plug decoder back EMF (Hat). **£17**
DCR-21Pin-Direct-V2 21-pin 6-function 1.1Amp direct plug decoder back EMF (Hat). **£16.50**
R7274 4-pin DCC decoder for Sentinels and Peckett locos (Hor) . . **£14.50**
DCR-6PIN-Direct 6-pin 2-function 1.1Amp direct plug decoder back EMF (Hat) **£17**
DCC90 8 pin 2 function wired digital decoder - "Ruby Series" (Gau)**£16.50**

DCR-8PIN-HarnessMini Box of 10 8-pin (harness) 2-function 1.1Amp small & thin (mini) decoder back EMF (Hat). . . . £128
DCR-8PIN-HarnessMini Single (Hat) **£16**
DCR-8PIN-HarnessMini Box of 5 (Hat). **£72**

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**

R8249 Box of 6 8-pin 4-function 2-sided 0.5A (1A peak) decoder (Hor) £92
R8249 Single (Hor). **£16**

DCR-8PIN-Direct Box of 10 8-pin compact direct 4-function 1.1Amp decoder back EMF (Hat) £136
DCR-8PIN-Direct Single (Hat) **£17**
DCR-8PIN-Direct Box of 5 (Hat) **£77**
R7150 Standard 6 pin Decoder (Hor). **£23.50**



R8121 TTS DCC Sound Decoder 8 pin plug - Class 66 diesel (Hor) £38
R8106 TTS DCC Sound Decoder 8 pin plug - Gresley Class A1 and A3 4-6-2 steam locos (Hor) **£36**
R8114 TTS DCC Sound Decoder 8 pin plug - LMS 5MT 'Black Five' steam loco (Hor). **£38**

Digital control accessory decoders

36-561 EZ Command Dynamis 4-output point decoder (similar to Hornby R8247) (Bac) (RRP £45.35). . . . . BARGAIN . . . **£24.50**

Digital controllers

524-042 NCE Power Cab 2 Amp Digital DCC controller (NCE)£159.50
DCC14 Prodigy Advance 2 Backlit Walkaround controller (Gau). . . . **£124**

DCC06 Prodigy Express 1.6 Amp Digital controller WiFi capability - complete starter pack (Gau) £224
DCC05 Prodigy WiFi Receiver - allows Smartphone or Tablet control of Prodigy DCC systems (Gau) **£89.50**

Digital control accessories

BPDCC80 Pack of three DCC autofrog polarity reversal switches - for electrofrog points (Gau) **£14.50**

Point motors

PM-2 Seep point motor (Gau) **£3.50**
PM-2 Pack of 6 (Gau). **£20**
PM-1 Seep point motor accessory switch (Gau) **£5**

HAT-PM-01 Solenoid point motor including pin extension and 2-way arm for use points and signals. Exclusive to Hatton's (Hat) £6.50
HAT-PM-01 Pack of 6 (Hat) **£35**

Switches and levers

PL-26R Passing Contact Switch - Red Lever (Pec). **£6**

Track underlay

JCS18L Cork underlay sheet - 1/8" thick - 24" x 36" (Jav). **£9**

Glues

AD-57 Roket Card Glue. Clean, Neat & Instant Card Modelling Glue (Ideal For Superquick & Metcalfe) - 50ml (Del) **£6.50**

Hattons · MODEL RAILWAYS ·

SELL YOUR PRE-OWNED LOCOS AND ROLLING STOCK

SELL yours today at www.hattonsmodelmoney.com

Get cash for your items in just four easy steps...

*Same day payments apply for collections received Monday to Friday before 2pm. Any collections received after 2pm will be paid on the next working day. Please note: In the unlikely event that we revise our offer price for your collection, you will be paid after responding to our offer. For full Terms and Conditions, visit hattons.co.uk/preownedterms

ALL brands purchased including:

HORNBY · BACHMANN BRANCH LINE · HELJAN · dapol · Lima · MAINLINE RAILWAYS · GRAHAM FARISH by BACHMANN

FOR CASH

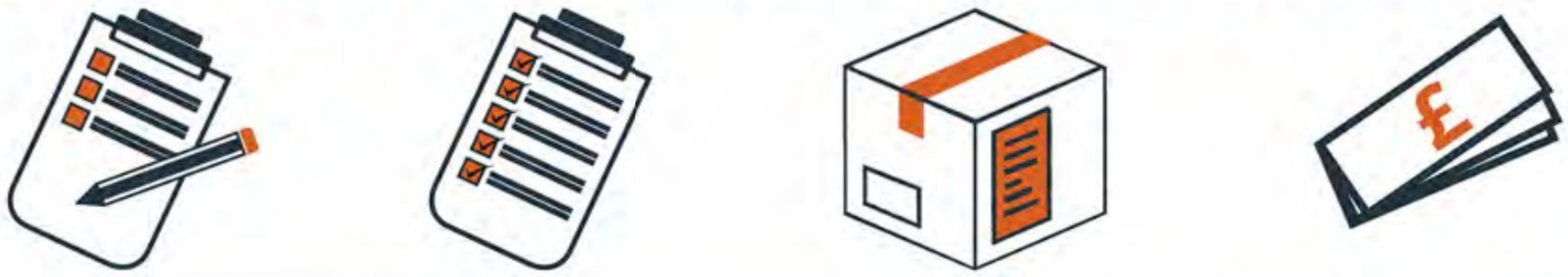
BUY pre-owned items online at hattons.co.uk/latestpreowned

WE PAY* STRAIGHT AWAY!

So why choose Hattons?

- More than 70 years of experience
- Offering you the best prices in the industry
- Valuations made by experts
- Free quotes with no obligation to trade
- We can arrange delivery – no collection too big or too small
- Fast, secure payment • Store credit available

Submit your list and track your valuation online by visiting www.hattonsmodelmoney.com



Call us on 0151 305 1755
or email preowned@hattons.co.uk

17 Montague Road, Widnes WA8 8FZ
Phone opening times:
Mon to Sun 9am-5pm.

brimal.co.uk

BCL Brimal Components ltd

Sales 01429 297277

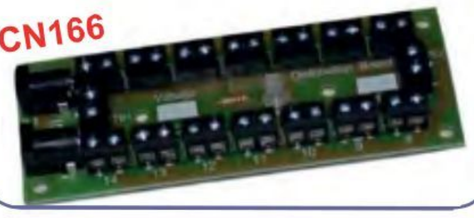
Just a small selection from our Catalogue of over 1000 items....See them all on brimal.co.uk or phone 01429297277 for a FREE catalogue

Power Distribution Board

CN165

14 way Distribution Board

CN166



6 x 3way Screw Terminal Junction

MR230

Universal Latching Relay

MR204

Control Switch +Indicators

MR322 Coil Motor
MR323 ON-ON or ON-OFF
MR324 & 6 Reverse Polarity Switch
All with MIMIC display

Tortoise Motor Connector

8 way PCB Edge Connector

MR162

1 sec to 120 sec Timer

MR350

1 to 20 second Pulse Timer

MR355

We have over 100 specialist circuits for every application

Have a look on **thehobbyshed.club** for Inspiration & Solutions

We accept all forms of Payment on the web site brimal.co.uk If you have any problems ordering please contact us

BURE VALLEY MODELS

www.burevalleymodels.com

Check out our Hornby prices...

R3737	BR A4 Class 'Mallard' 60022	£135.00
R3701	BR A4 Class 'Walter K Whigham' 60028	£130.00
R3229	BR Star Class 'British Monarch' 4021	£105.00
R3922	Class 66 G&W/Freightliner Co-Co 66623	£55.00
R3881	Class 66 GBRf 'Andrew Scott CBE' 66727	£55.00
R3916	Class 66 GBRf 'Cambridge PSB' 66733	£55.00
R3573	Class 66 GBRf 'Inspiration Delivered' 66751	£75.00
R3919	Class 66 PD Ports 'Teessport Express' 66109	£55.00
R8121	Class 66 TTS Digital Sound Decoder	£33.50
R3569	Class 71 BR Blue (Pre-TOPS) E5005	£120.00
R3739	Class 87 'Royal Scot' and 'Stephenson' 87001	£129.00
R3545	Class B12 BR Black 61556	£120.00
R3694	Class B2 Peckett APC Westminster	£82.50
R3680	Class W4 Peckett Charity Colliery	£75.00
R3679	Class W4 Peckett Port of London	£75.00
R3414	J15 LNER Black 5444	£75.00
R3410	King Class King Henry III BR Blue Early 6025	£100.00
R3681	LMS Princess Coronation 'City of Edinburgh'	£155.00
R3447	LNER B17 'Kilverstone Hall' 2842	£100.00
R3705	Ruston 48DS John Dewar & Sons 458957	£61.50
R3607	The 15 Guinea Special Train Pack	£220.00
R3711X	Princess Royal 'Princess Marie Louise' DCC Fitted	£155.00
R3781X	K&ESR 'Terrier' No. 5 'Rolvenden' DCC Fitted	£80.00
R3782X	SE&CR 'Terrier' DCC Fitted	£80.00

HORNBY

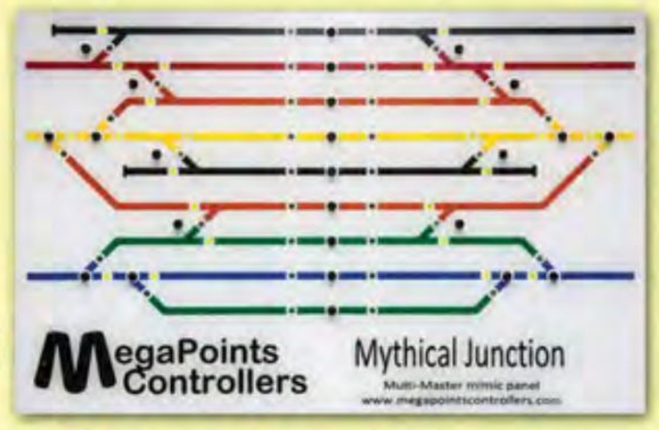
Aylsham Station, Norwich Road, Aylsham, Norfolk, NR11 6BW

01263 733858 shop@bvrw.co.uk

Postage £5.00 per order to UK destinations. All major credit cards accepted

MegaPoints Controllers

Awesome layout control system



Your bespoke mimic panel

Control your model railway from one or more tactile control panels
- NO SOLDERING! ***It's all plug and play!*** ✓
- Only uses a single cable between each control board.
- Includes ***feedback channel display*** option for:-
  - Block & section track occupancy ✓
  - Points position indication ✓
- Optional ***bespoke professional mimic panel design*** and build.
- Control servos, traditional solenoids, stall motors and relays.
- Works with ***analogue and digital*** layouts.

See website videos and product pages for more information.
Our single MultiPanel control board does it all!

Size 8cm x 10cm

A single cable connects each control board together and operates in BOTH directions for feedback display.

Plug-and-play, NO Soldering for control panel hookup. Cables and buttons available pre-wired with plugs attached. See our new website for details.

1. Plug in LED cables
2. Plug in switch cables
3. Connect to control boards
4. Press buttons, start using!

Designed and built in Great Britain

Web & details: megapointscontrollers.com

Rev 17-04

Call Us

10am - 4pm
Tuesday to Friday
Closed Bank Holidays

Please call before visiting

Model Railways Direct Ltd
Retail Unit 2,
Phoenix Way
Portishead,
Bristol, BS20 7GP

Tel 01275 774 224
sales@modelrailwaysdirect.co.uk

MODEL RAILWAYS DIRECT

www.modelrailwaysdirect.co.uk

N GAUGE

N GAUGE
Code 80 Rail .080"

PECO N Gauge Streamline Code 80

SL-300	Flexible Track* Wooden Sleeper Nickel Silver	£3.38
SL-300(25)	Flexible Track* Wooden Sleeper Nickel Silver Pack 25	£84.50
SL-302	Flexible Track* Concrete Sleeper Nickel Silver	£3.34
SL-302(25)	Flexible Track* Concrete Sleeper Nickel Silver Pk 25	£83.50
SL-384	Catch Point Right Hand	£6.68
SL-385	Catch Point Left Hand	£6.68

PECO N Gauge Streamline Code 80 Insulfrog

SL-386	Curved Turnout Right Hand	£11.76
SL-387	Curved Turnout Left Hand	£11.76
SL-388	Large Radius Turnout Right Hand	£11.76
SL-389	Large Radius Turnout Left Hand	£11.76
SL-393	Short Crossing	£9.80
SL-394	Long Crossing	£10.68
SL-395	Medium Radius Turnout Right Hand	£10.48
SL-396	Medium Radius Turnout Left Hand	£10.48
SL-397	Medium Radius Y Turnout	£10.48

PECO N Gauge Streamline Code 80 Electrofrog

SL-E386	Curved Turnout Right Hand	£11.84
SL-E387	Curved Turnout Left Hand	£11.84
SL-E388	Large Radius Turnout Right Hand	£11.84
SL-E389	Large Radius Turnout Left Hand	£11.84
SL-E395	Medium Radius Turnout Right Hand	£10.56
SL-E396	Medium Radius Turnout Left Hand	£10.56
SL-E397	Medium Radius Y Turnout	£10.56

N GAUGE
Code 55 Rail .055"

PECO N Gauge Streamline Code 55 Fine

SL-300F	Flexible Track* Wooden Sleeper Nickel Silver	£3.79
SL-300F(30)	Flexible Track* Wooden Sleeper Nickel Silver Pk 30	£113.70
SL-302F	Flexible Track* Concrete Sleeper Nickel Silver	£4.01
SL-302F(30)	Flexible Track* Concrete Sleeper Nickel Silver Pk 30	£120.30

PECO N Gauge Streamline Code 55 Fine Insulfrog

SL-380F	Single Slip	£38.32
SL-390F	Double Slip	£40.00
SL-394F	Long Crossing	£11.16

N GAUGE

PECO N Gauge Streamline Code 55 Fine Electrofrog

SL-E386F	Curved Turnout Right Hand	£12.68
SL-E387F	Curved Turnout Left Hand	£12.68
SL-E388F	Large Radius Turnout Right Hand	£12.68
SL-E389F	Large Radius Turnout Left Hand	£12.68
SL-E380F	Single Slip	£39.64
SL-E383F	Scissors Crossing	£68.56
SL-E390F	Double Slip	£41.44
SL-E391F	Small Radius Turnout Right Hand	£10.32
SL-E392F	Small Radius Turnout Left Hand	£10.32
SL-E393F	Short Crossing	£10.48
SL-E394F	Long Crossing	£11.36
SL-U395F	Medium Radius Turnout Right Hand	£11.48
SL-U396F	Medium Radius Turnout Left Hand	£11.48
SL-E397F	Medium Radius Y Turnout	£11.60
SL-E399F	Asymmetric Three Way Turnout	£31.40

OO GAUGE

OO / HO
Code 100 Rail .100"

PECO OO / HO Streamline Code 100

SL-100	Flexible Track* Wooden Sleeper Nickel Silver	£3.74
SL-100(25)	Flexible Track* Wooden Sleeper Nickel Silver Pk 25	£93.50
SL-102	Flexible Track* Concrete Sleeper Nickel Silver	£3.70
SL-102(25)	Flexible Track* Concrete Sleeper Nickel Silver Pk 25	£92.50
SL-84	Catch Point Right Hand	£9.32
SL-85	Catch Point Left Hand	£9.32

PECO OO / HO Streamline Code 100 Insulfrog

SL-80	Single Slip	£33.60
SL-86	Large Radius Curved Turnout Right Hand	£14.20
SL-87	Large Radius Curved Turnout Left Hand	£14.20
SL-88	Large Radius Turnout Right Hand	£13.40
SL-89	Large Radius Turnout Left Hand	£13.40
SL-90	Double Slip	£36.92
SL-91	Small Radius Turnout Right Hand	£10.60
SL-92	Small Radius Turnout Left Hand	£10.60
SL-93	Short Crossing	£9.80
SL-94	Long Crossing	£11.40
SL-95	Medium Radius Turnout Right Hand	£11.80
SL-96	Medium Radius Turnout Left Hand	£11.80
SL-97	Small Radius Y Turnout	£10.80
SL-98	Large Radius Y Turnout	£12.52
SL-99	Medium Radius 3 Way Turnout	£29.60

OO GAUGE

PECO OO / HO Streamline Code 100 Electrofrog

SL-E86	Large Radius Curved Turnout Right Hand	£14.28
SL-E87	Large Radius Curved Turnout Left Hand	£14.28
SL-E88	Large Radius Turnout Right Hand	£13.48
SL-E89	Large Radius Turnout Left Hand	£13.48
SL-E91	Small Radius Turnout Right Hand	£10.68
SL-E92	Small Radius Turnout Left Hand	£10.68
SL-E95	Medium Radius Turnout Right Hand	£11.88
SL-E96	Medium Radius Turnout Left Hand	£11.88
SL-E97	Small Radius Y Turnout	£10.88
SL-E98	Large Radius Y Turnout	£12.60
SL-E99	Medium Radius 3 Way Turnout	£29.68

OO / HO
Code 75 Rail .075"

PECO OO / HO Streamline Code 75 Fine

SL-100F	Flexible Track* Wooden Sleeper Nickel Silver	£3.83
SL-100F(25)	Flexible Track* Wooden Sleeper Nickel Silver Pk 25	£95.75
SL-102F	Flexible Track* Concrete Sleeper Nickel Silver	£3.92
SL-102F(25)	Flexible Track* Concrete Sleeper Nickel Silver Pk 25	£98.00
SL-104F	Flexible Track* Steel Sleeper Nickel Silver	£3.92
SL-104F(25)	Flexible Track* Steel Sleeper Nickel Silver Pk 25	£98.00
SL-106F	Flexible Track* Concrete Bi-Block Sleeper	£4.01
SL-106F(25)	Flexible Track* Concrete Bi-Block Sleeper Pk 25	£100.25
SL-184	Catch Point Right Hand	£9.56
SL-185	Catch Point Left Hand	£9.56

PECO OO / HO Streamline Code 75 Fine Insulfrog

SL-180	Single Slip	£38.12
SL-190	Double Slip	£41.00
SL-193	Short Crossing	£10.56
SL-194	Long Crossing	£11.68

PECO OO / HO Streamline Code 75 Fine Electrofrog

SL-E1095	Medium Radius Turnout RH with Concrete Sleepers	£14.40
SL-E1096	Medium Radius Turnout LH with Concrete Sleepers	£14.40
SL-E180	Single Slip	£38.60
SL-E186	Curved Turnout Right Hand	£14.64
SL-E187	Curved Turnout Left Hand	£14.64
SL-E188	Large Radius Turnout Right Hand	£14.20
SL-E189	Large Radius Turnout Left Hand	£14.20
SL-E190	Double Slip	£41.41
SL-E191	Small Radius Turnout Right Hand	£11.80
SL-E192	Small Radius Turnout Left Hand	£11.80
SL-E193	Short Crossing	£11.52
SL-E194	Long Crossing	£12.44
SL-E195	Medium Radius Turnout Right Hand	£13.00
SL-E196	Medium Radius Turnout Left Hand	£13.00
SL-E197	Small Radius Y Turnout	£12.52
SL-E198	Large Radius Y Turnout	£13.8
SL-E199	Asymmetric Three Way Turnout	£32.00

EXPORTS VAT FREE

FOR DELIVERIES OUTSIDE THE EU WE WILL AUTOMATICALLY DEDUCT VAT (20%) AND CALCULATE POSTAGE CHARGES AT CHECKOUT.

taxfree

Prices valid for 28 days from magazine publication date and are valid for pre-orders made on or before this date, all items are subject to availability. All items are in stock or on order at time of producing advertisement, payment (except PayPal) will not be taken until items are dispatched. We regret that we are not able to accept cheques. Prices shown include VAT at 20%. Errors excepted.

UK POSTAGE £3.99
(*Flexible Track £9.99)
FAST, SECURE DELIVERY

Courier delivery £9.99. Highlands, Islands are subject to a surcharge for large items and parcels over 1.8kg. *Some oversize items may have to be shipped by courier. Postage charges are per shipment.

LIVE STOCK INFO

DARSTAED MK1 SUBURBANS
NOW IN STOCK!

£169 EACH or 4 for £665

LIVERIES & COACHES

LIVERIES

Maroon (lined & unlined)
Crimson & Blue

COACH TYPES

C 1st/3rd with corridor
CL 1st/3rd with corridor & lavatory
BS Second class compartments with brake end
SO Open Second
SLO Open Second with lavatory
S Second class compartments

ELLIS CLARK TRAINS & DARSTAED ANNOUNCE FINESCALE O GAUGE
THOMPSON COACHES

	TEAK		CRIMSON/CREAM		MAROON	
	ROUND WINDOWS	SQUARE WINDOWS	ROUND WINDOWS	SQUARE WINDOWS	ROUND WINDOWS	SQUARE WINDOWS
TK		✔	✔		✔	
BTK		✔	✔		✔	
BCK		✔	✔		✔	
BG*		✔		✔		✔
FK		✔	✔		✔	
RF	✔		✔		✔	
RTO	✔		✔		✔	

*Also available in BR Crimson and BR Blue

PRE-ORDER WITH NO DEPOSIT

SPECIFICATIONS

AVAILABLE Q1/2 2020

- Finely detailed brass sides - professionally painted
- Brass luggage racks
- Fully detailed die-cast under-frame
- Super detailed interiors with lighting

£199 EACH
Teak price TBC

CONTACT US

To order or find out about availability please visit our website or call us.

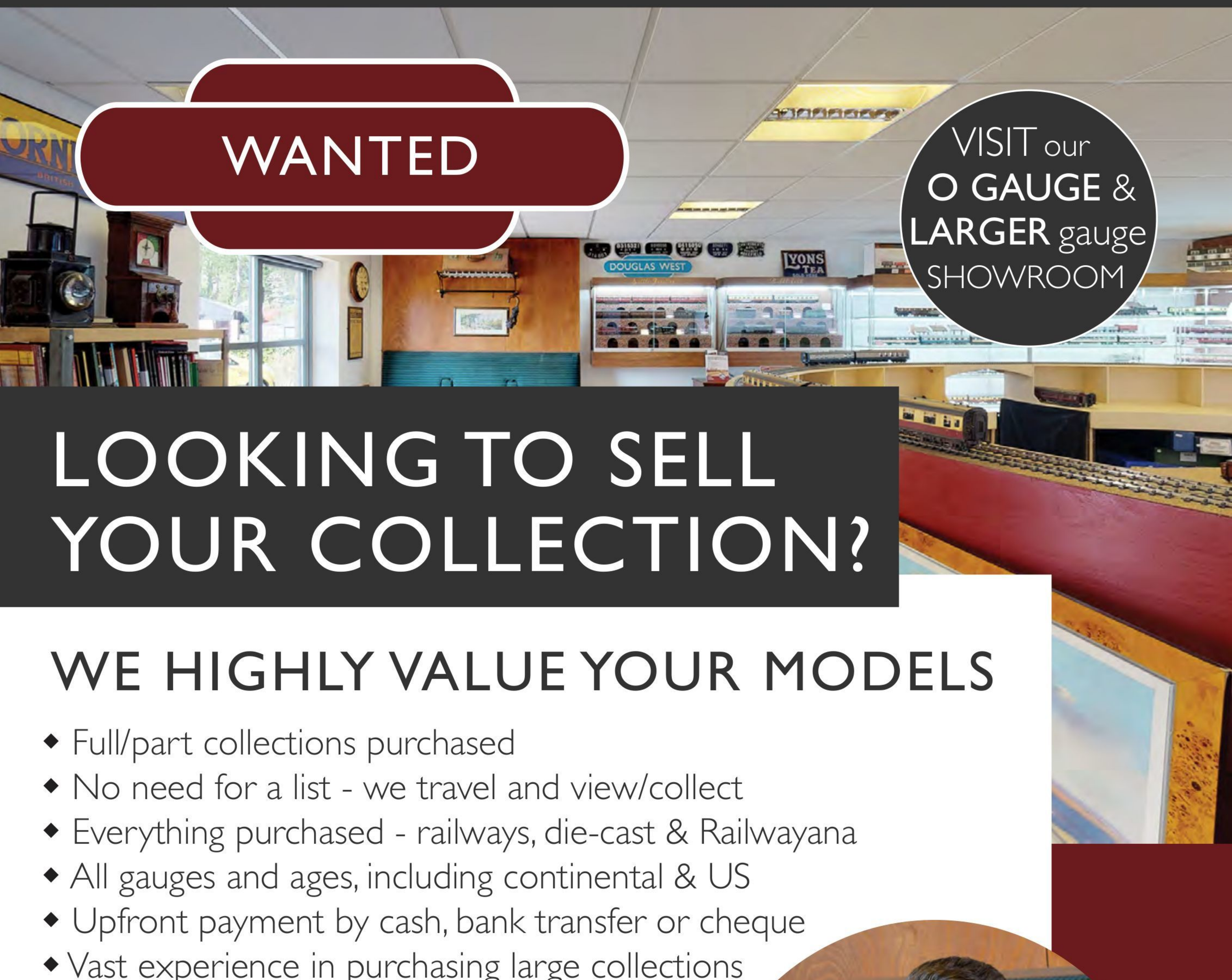
ellisclarktrains.com
01756 701451
amey@ellisclarktrains.com

ELLIS CLARK TRAINS

DARSTAED Trains de Luxe

ELLIS CLARK TRAINS

Unit 1 Toller Court
Shortbank Road, Skipton
North Yorkshire BD23 2HG



LOOKING TO SELL YOUR COLLECTION?

WE HIGHLY VALUE YOUR MODELS

- Full/part collections purchased
- No need for a list - we travel and view/collect
- Everything purchased - railways, die-cast & Railwayana
- All gauges and ages, including continental & US
- Upfront payment by cash, bank transfer or cheque
- Vast experience in purchasing large collections
- Friendly and professional service
- Specialised interest in 7mm O gauge

CONTACT ELLIS OR ALBERT

GET IN TOUCH

ellisclarktrains.com

01756 701451

ellis@ellisclarktrains.com

CARNFORTH MODELS

Temporary
Opening times
10:00am – 4:30pm
Tuesday, Friday, Saturday
Located on Carnforth Station
01524 730101
www.carnforthmodels.co.uk
Home of PendleValley Workshop and the NEW busybodies

N Gauge – OO Gauge – O Gauge – SM32 – 45mm – Paints – Plastics – Scenery

Find us on Facebook

DCC Supplies
Excellence in model control

Email: info@dccsupplies.com **Website**: www.dccsupplies.com
Telephone: 01905 621999

- We are still here for you.
- Although running with reduced staff levels, one person on alternative days, we intend to keep the shipping, workshop and phone service going as long as we can, albeit on reduced times.
- Technical queries can be sent in via info@dccsupplies.com
- Look out for discounted items, adding weekly.
- As our courses are postponed, we can still handle lengthy/complex questions, for which we will charge a nominal fee, if applicable.

Shipping Days
Monday & Thursday

Phone Opening Times
Tues, Wed & Fri 10.30am-12pm / 2pm-4pm

Find us on: facebook

@DccSupplies

Unit 17A Top Barn Business Centre, Holt Heath, WR6 6NH UK

FRIZINGHALL
MODELS & RAILWAYS

70 YEARS OF FMR 1950 - 2020

OUR MODEL SHOP CARRIES A HUGE RANGE OF LOCOMOTIVES AND ROLLING STOCK IN ALL GAUGES
SCENICS - KITS - PLASTIC MODELS
PRE-OWNED - PAINTS - TOOLS
SPECIAL OFFERS - DIECAST MODELS

OUR SERVICES
- DCC Sound Fitting
- DCC Decoder Fitting
- Weathering
- Rename/Renumber
- Servicing/Repairs

We buy second-hand model railway items. Speak to our friendly & experienced staff for more information.
'Cash or Exchange'

FREE POSTAGE over £150 (UK mainland only)

OFFICIAL STOCKIST
SOUND FILES SUPPLIED BY YOUCHOOS & DIGITRAINS

WWW.MODELRAILSHOP.CO.UK
01274 747447
shop@fmrdirect.co.uk

8A Sapper Jordan Rossi Park
Baildon, Otley Road
West Yorkshire, BD17 7AX

OPEN: MONDAY to SATURDAY 10:00 - 4:30

Sig-naTrak®
Model railway electronics by *GFB Designs*

Our popular DCC controller!

- Up to 9999 train and 2044 accessory adresses
- Trains and accessories can be named
- Easy to use - elegant, clearly-labelled touch keys - clear, colour graphical display
- Drive from the touch panel, or optional handsets
- Integrated USB interface!
- Generous 5A output!

£262.00

The ACE-2 (DCS2044-2H)
NMRA-compliant DCC controller with full decoder programming and reading. Computer control, XpressNet and LocoNet planned for 2020 - user upgradable! Compact: only 220x150x45mm!

May 2020 - UPDATE

Product development has re-commenced and we hope to have updated ACE software available by Autumn 2020.

Order delivery may take up to 3 weeks but we can usually ship in-stock items within 5-7 days.

Look out for our DAC22 - a new, improved version of the popular DAC20 8-channel DCC Accessory Decoder!
.

£30.00

The *DRIVER* (BHS1204) *ACE* Handset.

See website or send large-letter SAE for more details. (prices inc. VAT, p+p extra)
***GFB Designs* - WE put YOU in control!**

Layout control modules - DCC or LocoNet(TM)

SIGM20 Colour-light Signal Controller - 6 or 8 outputs. £54.00
DTM30 Digital Tower Master - 30 inputs & outputs. £63.00
DSS1 Loco Shuttle - automatic train running sequences. £60.00
MSC8 Scenery Animator - control lights, motors & servos. £30.00

67 Boddens Hill Road, Stockport, SK4 2DG
Tel: 0161 883 2022; fax: 0161 883 2077
(Sorry - no callers.)
Email: info@signatrak.co.uk; Web: www.signatrak.co.uk

DCC TRAIN AUTOMATION

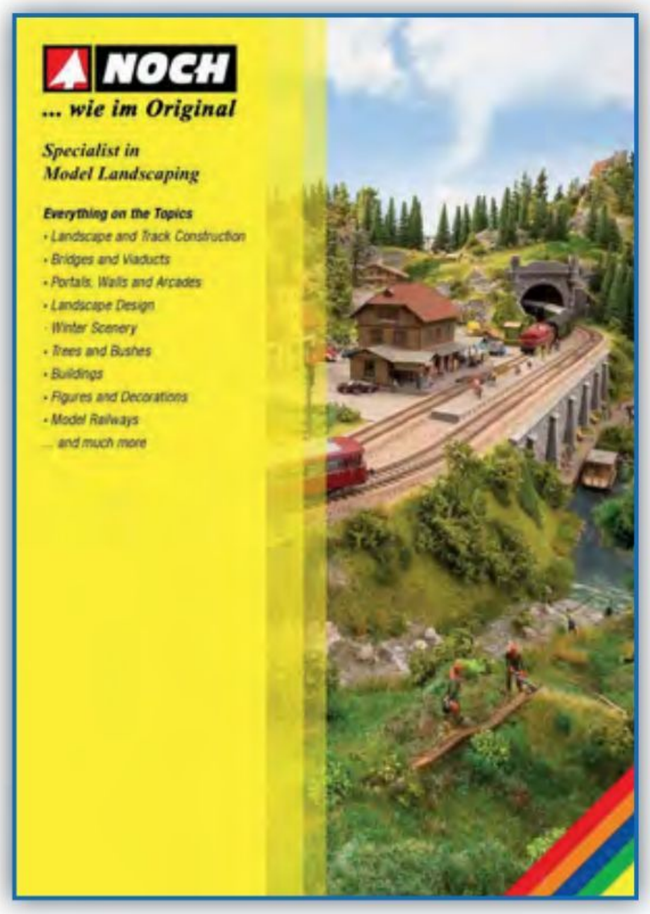
WE HAVE MOVED!
See below...

THE FIRST STOP ON YOUR JOURNEY TO MODEL RAILWAY DIGITAL CONTROL SOLUTIONS

UNIT 16, BOWDENS FARM, HAMBRIDGE, SOMERSET, TA10 0BP

We have moved to larger premises so our customers can enjoy browsing a larger product range, plus we have a workshop for our lasercut range of Railway Laser lines.

We would also like to announce an area within our new shop dedicated to **NOCH Scenic product range** and will be running loads of great scenic items in this area and hopefully soon we will be holding **NOCH Scenic training days** where customers can come along and try out the range and learn how to use the items they produce.



UK DISTRIBUTORS OF DIGIKEIJS AND ITRAIN UK RESELLER

WE TAKE CONTROL AS FAR AS YOU WANT TO GO

We specialise in basic and full Digital control of your trains.

Looking for Dealers to Sell our Digikeijs Products?

Then please email us for more information

FLEISCHMANN · ZIMO · Roco · KRIS MODELL · BEMO · BiDiB · BUCHSIGNALING · FALLER · BUSCH · mtb

☎ 01823 429309 info@dcctrainautomation.co.uk

www.dcctrainautomation.co.uk

In The Greenwood
LASER

HS016 **Bungalow**
£11.50

Bungalow or Multi-Storey, We've got something for you!

FL001 Low relief Block of Flats
From £20 **(N Gauge)**

Top Selling Items

PC001 **Canopies**

£6.00

ST005 **Hesketh Station**

£20.00

BS002 **Bandstand**

£8.50

For the full range visit
www.inthegreenwoodlaser.co.uk

MAC'S MODEL

RAILROADING

4-8 REFORM STREET, KIRRIEMUIR, SCOTLAND DD8 4BS
TEL: 01575 572397
WWW.MACSMODELS.CO.UK WWW.ECSCENICS.CO.UK
EMAIL: SALES@ECSCENICS.CO.UK

VISIT MY FACEBOOK PAGE -
WWW.FACEBOOK.COM/MACSMODELRAILROADING

OPEN: 10.30AM - 4.00PM

BRITISH, AMERICAN AND CONTINENTAL
OUTLINE STOCKED
COMPREHENSIVE WOODLANDS
SCENIC SELECTION

Underwritten by
ansvar
magnet insurance

SPECIALIST MODEL RAILWAY COLLECTION INSURANCE

from £67.20* per annum

Full policy terms and conditions available at www.modelrailwayinsurance.co.uk

*Based on sums insured of £12,500

Our Model Railway Collection Policy is designed for individuals who own and/or exhibit their own Model Railway, including Garden Railways and Model Railway Engineers (up to a track width of 7.25 inches/185mm).

The policy provides cover anywhere in the UK at any location, including in transit and whilst at an exhibition. Optional cover can be added to include Public Liability for ride-on passenger carrying locomotives and rolling stock.

We also offer:
Exhibition Insurance
Club or Society Insurance

Call us on
01636 858249

www.modelrailwayinsurance.co.uk
Newark Beacon , Cafferata Way, Newark, NG24 2TN
Authorised and regulated by the Financial Conduct Authority

PETER'S SPARES

MODEL RAILWAYS LIMITED
MAIL ORDER & REPAIR SPECIALISTS

- New & Used Hornby Spare Parts
- Our own spare parts made in China
- Locomotives and Rolling Stock
- Plastic Kits, Paints, Tools & Glues
- Digital Decoders & Controllers
- Locomotive Detailing parts
- Mega Steam Smoke Fluid
- Tracks & Train Sets
- We have it all at Peters Spares

NEED HORNBY SPARES?

Talk to Peter's Spares - over 2500 different Hornby Spares in stock.

East Kent Models parts are being listed on our website.

OVER 10,000 DIFFERENT ITEMS IN STOCK

DON'T FORGET WE SELL:

Locomotives, Rolling Stock, Scenics and much more!

BACHMANN BRANCH-LINE
HORNBY

NEW & USED MODEL RAILWAYS

Specialists in Model Trains since 1994 - Servicing, Repairs & DCC Decoder Fitting
2J Brighouse Business Village, Riverside Park, Middlesbrough, Cleveland TS2 1RT
Tel: 01642 909794
Open Mon-Sat 10am - 5pm
Web: www.petersspares.com
Email: sales@petersspares.com

PECO
GRAHAM FARISH by BACHMANN
dapol
HELJAN
GAUGEMASTER

Call Us
10am - 4pm
Tuesday to Friday
Closed Bank Holidays

Please call before visiting

Model Railways Direct Ltd
Retail Unit 2,
Phoenix Way
Portishead,
Bristol, BS20 7GP

Tel 01275 774 224
sales@modelrailwaysdirect.co.uk

MODEL RAILWAYS DIRECT

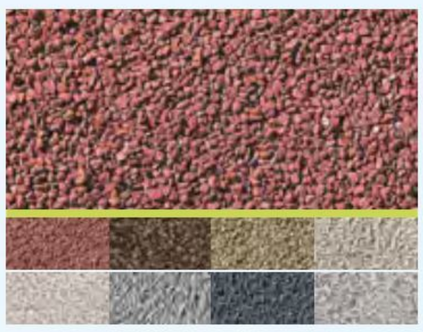
www.modelrailwaysdirect.co.uk

ANY SCALE

WOODLAND SCENICS
The World Leader in Model Scenery

Fine Ballast £4.89 ~~£5.75~~

WB70 Fine Ballast Iron Ore
WB71 Fine Ballast Dark Brown
WB72 Fine Ballast Brown
WB73 Fine Ballast Buff
WB74 Fine Ballast Light Grey
WB75 Fine Ballast Grey
WB76 Fine Ballast Cinders



Medium Ballast £4.89 ~~£5.75~~

WB77 Medium Ballast Iron Ore
WB78 Medium Ballast Dark Brown
WB79 Medium Ballast Brown
WB80 Medium Ballast Buff
WB81 Medium Ballast Light Grey
WB82 Medium Ballast Grey
WB83 Medium Ballast Cinders
WB94 Medium Ballast Grey Blend £8.29

Coarse Ballast £4.89 ~~£5.75~~

WB84 Coarse Ballast Iron Ore
WB85 Coarse Ballast Dark Brown
WB86 Coarse Ballast Brown
WB87 Coarse Ballast Buff
WB88 Coarse Ballast Light Grey
WB89 Coarse Ballast Grey
WB90 Coarse Ballast Cinders

Earth Colours Undercoat £8.29 ~~£9.75~~

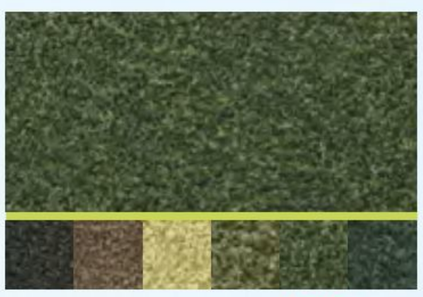
WC1228 Liquid Pigment Undercoat Green
WC1229 Liquid Pigment Undercoat Earth

Earth Colours £6.59 ~~£7.75~~

WC1216 Liquid Pigment White
WC1217 Liquid Pigment Concrete
WC1218 Liquid Pigment Stone Grey
WC1219 Liquid Pigment Slate Grey
WC1220 Liquid Pigment Black
WC1221 Liquid Pigment Raw Umber
WC1222 Liquid Pigment Burnt Umber
WC1223 Liquid Pigment Yellow Ocher

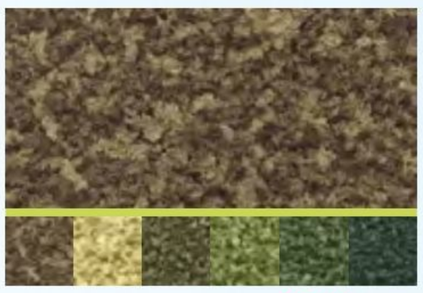
Coal £4.25 ~~£5.00~~

WB92 Coal Mine Run
WB93 Coal Lump



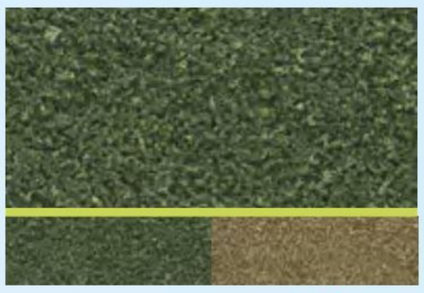
Fine Turf £3.40 ~~£4.00~~

WT41 Fine Turf Soil
WT42 Fine Turf Earth
WT43 Fine Turf Yellow Grass
WT44 Fine Turf Burnt Grass
WT45 Fine Turf Green Grass
WT46 Fine Turf Weeds



Coarse Turf £3.40 ~~£4.00~~

WT60 Coarse Turf Earth
WT61 Coarse Turf Yellow Grass
WT62 Coarse Turf Burnt Grass
WT63 Coarse Turf Light Green
WT64 Coarse Turf Medium Green
WT65 Coarse Turf Dark Green



Blended Turf £6.59 ~~£7.75~~

WT49 Blended Turf Green Blend
WT50 Blended Turf Earth Blend

Underbrush £4.89 ~~£5.75~~

WFC134 Underbrush Olive Green
WFC135 Underbrush Light Green
WFC136 Underbrush Medium Green
WFC137 Underbrush Dark Green
WFC138 Underbrush Forest Green
WFC139 Underbrush Forest Blend

Bushes £4.89 ~~£5.75~~

WFC144 Bushes Olive Green
WFC145 Bushes Light Green
WFC146 Bushes Medium Green
WFC147 Bushes Dark Green
WFC148 Bushes Forest Green
WFC149 Bushes Forest Blend

Clump Foliage £6.59 ~~£7.75~~

WFC682 Clump Foliage Light Green
WFC683 Clump Foliage Medium Green
WFC684 Clump Foliage Dark Green

Foliage £4.89 ~~£5.75~~

WF51 Foliage Light Green
WF52 Foliage Medium Green
WF53 Foliage Dark Green
WF54 Foliage Conifer Green
WF55 Foliage Early Fall Mix
WF56 Foliage Late Fall Mix

Foliage Clusters £9.14 ~~£10.75~~

WFC57 Foliage Clusters Light Green
WFC58 Foliage Clusters Medium Green
WFC59 Foliage Clusters Dark Green

Fine Leaf Foliage £16.37 ~~£19.25~~

WF1130 Fine Leaf Foliage Dark Green
WF1131 Fine Leaf Foliage Medium Green
WF1132 Fine Leaf Foliage Light Green
WF1133 Fine Leaf Foliage Olive Green
WF1134 Fine Leaf Foliage Dead Foliage
WF1135 Fine Leaf Foliage Fall Mix

Tree Armatures £14.24 ~~£16.75~~

WTR1120 Deciduous Trees 3/4" to 2"
WTR1121 Deciduous Trees 2" to 3"
WTR1122 Deciduous Trees 3" to 5"
WTR1123 Deciduous Trees 5" to 7"
WTR1124 Pine Trees 2.5" to 4"
WTR1125 Pine Trees 4" to 6"

Realistic Tree Kits £13.39 ~~£15.75~~

WTR1111 Deciduous 3/4" to 3" Med Green
WTR1112 Deciduous 3" to 7" Med Green
WTR1113 Pine 2 1/2" to 6" Forest Green

Earth Colour Kit £16.37 ~~£19.25~~

WC1215 Earth Colour Kit

Water

WC1206 E-Z Water £13.39 ~~£15.75~~
WC1211 Realistic Water £21.25 ~~£25.00~~
WC1212 Water Effects £14.88 ~~£17.50~~

Lichen £9.99 ~~£11.75~~

WL161 Lichen Spring Green
WL162 Lichen Light Green
WL163 Lichen Medium Green
WL164 Lichen Dark Green
WL165 Lichen Autumn Mix
WL166 Lichen Natural

Field Grass £4.25 ~~£5.00~~

WFG171 Field Grass Natural Straw
WFG172 Field Grass Harvest Gold
WFG173 Field Grass Light Green
WFG174 Field Grass Medium Green

Flowering Foliage £4.25 ~~£5.00~~

WF176 Flowering Foliage Yellow
WF177 Flowering Foliage Purple

Adhesives & Accessories

WS190 Scenic Glue £7.44 ~~£8.75~~
WS191 Scenic Cement £8.29 ~~£9.75~~
WS192 Scenic Sprayer £4.25 ~~£5.00~~
WS194 Canister Shaker £4.25 ~~£5.00~~
WS195 Hob-e-Tac Adhesive £5.74 ~~£6.75~~

WC1203 Plaster Cloth £9.99 ~~£11.75~~

EXPORTS VAT FREE

taxfree

FOR DELIVERIES OUTSIDE THE EU WE WILL AUTOMATICALLY DEDUCT VAT (20%) AND CALCULATE POSTAGE CHARGES AT CHECKOUT.

Prices valid for 28 days from magazine publication date and are valid for pre-orders made on or before this date, all items are subject to availability. All items are in stock or on order at time of producing advertisement, payment (except PayPal) will not be taken until items are dispatched. We regret that we are not able to accept cheques. Prices shown include VAT at 20%. Errors excepted.

UK POSTAGE £3.99

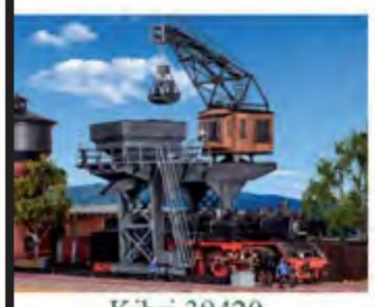
FAST, SECURE DELIVERY

Courier delivery £9.99. Highlands, Islands are subject to a surcharge for large items and parcels over 1.8kg. Some oversize items may have to be shipped by courier. Postage charges are per shipment.

LIVE STOCK INFO

PECO HORNBY HELJAN dapol Lenz ELEKTRONIK GMBH GRAHAM FARISH by BACHMANN METCALFE

GOLDEN VALLEY HOBBIES


Kibri 39420
Coaling Store
£36.82

Vollmer 45720
Large Coaling Stage
£51.77

Busch 1045
Coal Stockpile & Loader
£27.26

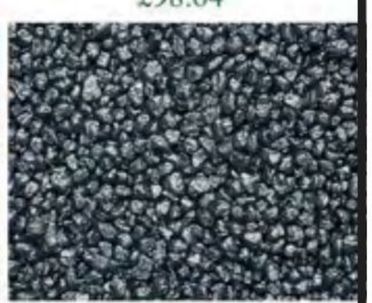
Auhagen 11445
Coaling Loading Crane
£30.90

Vollmer 45714
Coal Loader With Crane
£31.37

Kibri 39846
Coal Mine
£98.64

Vollmer 45717
Coal Bunker
£8.18

Auhagen 11416
Large Coaling Station
£56.30


Busch 7073
Large Grade Coal
£1.99

www.GoldenValleyHobbies.com

Unit 1 Pontrilas Business Park, Pontrilas, Herefordshire, HR2 0AZ
See our website, write or call to order. Trade enquiries welcome. 01981 241 237
Prices are correct at time of print and are subject to change.

GRIMY TIMES MODEL RAILWAYS

www.grimytimes.co.uk

187 Orford Lane, Warrington, Cheshire WA2 7BA

Open daily 10am-5.00pm Closed Sundays & Mondays 01925 632209
07921 830484

The Home of Grimy Times Weathering

- Excellent range of products and very competitive prices.
- Weathering, Renumbering & Renaming Service.
- Displays of pre-weathered locomotives for sale.
- Advice from professional railway modellers.
- DCC fitting service / Repairs & Servicing.

HORNBY PECO METCALFE GRAHAM FARISH by BACHMANN

Sankey Scenics

Over 800 different packs of Quality Signage & Titled Trains

NEW ITEMS

COACH DESTINATION BOARDS

Tel: 07565 892209

www.sankeyscenics.co.uk

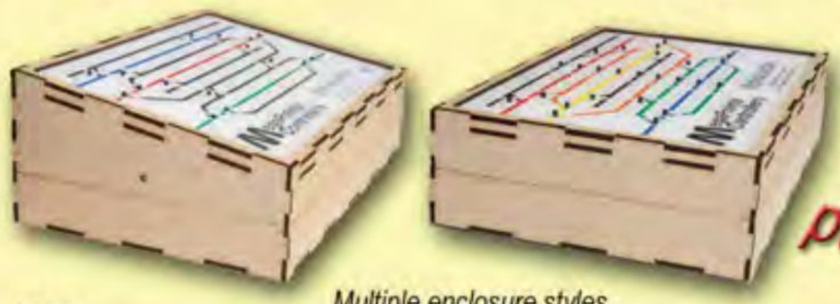
MegaPoints Controllers

Awesome mimic panel control system

Ordering process:-

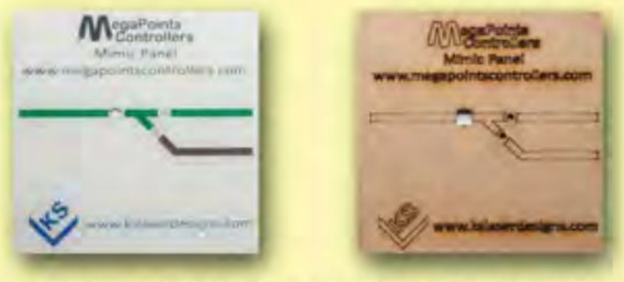
- *You supply a track plan or sketch (freehand is ok).*
- *We raise a quotation.*
- *You place order.*
- *We produce final artwork and submit to you for approval.*
- *You approve (no changes after this point).*
- *We cut, emboss and laser engrave.*
- *We ship panel plus all associated control boards and cables.*
- *Delivery usually 3-4 weeks from order.*

Have us design and build your mimic panel for you.
Professionally cut and expertly assembled.
We take care of all the details, one supplier for everything.
Available with or without enclosure (flat or angled options).
Use our LEDs and buttons (preferred) or your own.
Plug and play wiring - absoloutley no soldering, just plug in cables.
Easy, detachable wipe clean panel, nothing attaches directly to fascia.
Only power and a signal cable connect the whole enclosure to your layout.
Feedback data displays block occupancy and points position, built right in.
Works with analogue (DC) and digital (DCC) - at the same time!
Use to drive traditional solenoid motors, stall motors, servos or relays.
Kato points option coming soon.
Extensive how-to video library shows you how.
Telephone and email support for advice and guidance.
Our website has many examples of our work.
Maximum single panel size 600mm x 350mm (multiple panels snap together).

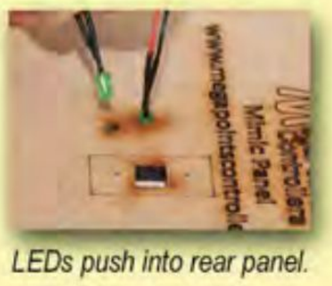


Multiple enclosure styles

No soldering! Plug-n-play panel wiring.



Locating holes for LEDs and buttons clearly marked.



LEDs push into rear panel.

Buttons attach from the rear, held with screws (supplied).

MegaPoints Controllers
Waverley, Warrington Road,
Cuddington, Cheshire, CW8 2LW
Tel: 07846 409320
Email: info@megapointscontrollers.com

Website & details: megapointscontrollers.com

2nd Production Run

Following the success and overwhelming response to our first release of the **English Electric GT3**, we are pleased to announce that we intend to do a 2nd production run.

Interest can be registered at
https://www.krmodels.co.uk/products/gt3-oo-gauge

Once sufficient numbers have been received, you will be sent an email giving more details such as payment options and delivery schedules.

GT3 OO Gauge DCC Ready £195

GT3 OO gauge DCC Sound £295

Shipping not included in the price.

KRModels

www.krmodels.co.uk

Model Scenery Supplies

Internet Shopping for all your Scenic items

Scatter - Flock - Grass - Foliage
Trees - Bushes - Turf - Tufts - Kits
Plants - Buildings - Figures - Walls
Fences - Ballast - Accessories
Backscenes -and more.

WOODLAND SCENICS · METCALFE · SCENECRAFT by Bachmann · PECO · RATIO PLASTIC MODELS · WILLS·KITS

Search....
modelscenerysupplies.co.uk

YouChoos DCC Sound

ZIMO

BE THERE WITH
immersive Drive

Active braking
Dynamic & exponential inertia
Consistent function keys
Smoothed transitions
More sounds
Realistic shunt mode
Light-engine for steam
Notching for diesel
Mute (fade in/out)
Volume controls
and more...

Isn't it time you dived into the best DCC sound?

01380 530530
www.YouChoos.co.uk info@youchoos.co.uk

Visit ➔ Scalescenes.com
Download ➔ Print ➔ Build

Card kits that pass closer inspection

NEW Canal Wharf Boxfile Layout
A complete micro layout ONLY £9.99

Safely 'flat-packs' away in boxfile

Includes Steel barge

Buy once unlimited prints

scale scenes .com

00 scale

Sunningwell Command Control Ltd

Always looking to bring you the best in DCC systems and support

SCC are proud to stock and support the full range of Soundtraxx's UK Econami decoders

Run by railway modellers for railway modellers.
Serving the DCC community since 1998 with the experience and knowledge to match.

SCC LTD.
PO Box 381, Abingdon SO OX13 6RB
Tel: 01865 730455
Email: info@scc4dcc.co.uk
Website: www.scc4dcc.co.uk

SR Hobbies

From our hobby To yours

We strive to cover every aspect of your modelling needs whilst providing a high quality, low hassle product every time. all of our own branded products are produced in house here in the U.K.

facebook.com/S.R.lights.code3s/ @SRhobbies
@Shedringhobbies SR Hobbies

www.shedringhobbies.co.uk
07754 898 640

WEST HILL WAGON WORKS

Close Coupling • Reliability • Making Uncoupling Easy

Make Uncoupling Easier With Our Magnetic Couplings, Offering Great Reliability On Inclines & Helix's

Realistic Lighting Your Stations/Fuel Lines/Depot's & Buildings

Large Selection Of Coupling Types For Your Locomotives, Coaches & Wagons

Special Offer For Hornby Magazine Readers! Get 10% Discount Using Code: **HornbyMagazine10** At Checkout

www.westhillwagonworks.co.uk

You Can Also Order Via Telephone: 07391 216729 or **Email:** huntcouplings@outlook.com

30+ LAYOUTS, DEMONSTRATIONS, QUALITY TRADERS AND MORE!

VIP TICKETS NOW AVAILABLE

CHILDREN FREE ON SUNDAY!*

THE GREAT ELECTRIC TRAIN SHOW

ADVANCE TICKETS NOW AVAILABLE!

OCTOBER 10/11 2020

MARSHALL ARENA, STADIUM MK, STADIUM WAY, MILTON KEYNES, MK1 1ST

163/20

SAVE ON THE ENTRY PRICE WHEN YOU BOOK ADVANCE TICKETS TODAY!

Book your tickets in advance and SAVE on admission, additional discounts are available for magazine subscribers.**

TO ORDER, VISIT: www.greatelectrictrainshow.com

OR CALL: 01780 480404

Brought to you by

KEY PUBLISHING EVENTS

HORNBY magazine

Children under 16 must be accompanied by an adult at all times.

Deadline for advance ticket orders Friday 2 October 2020. *Max 2 per paying adult

**Key Publishing magazine subscribers only.

GILDINGS
AUCTIONEERS - EST 1980

AUCTION OF THE
KENNETH ABBOTT COLLECTION OF SCALE MODEL RAILWAY LOCOMOTIVES

Tuesday 18th August 2020

A lifetime's collection with over 70 locomotives, passenger coaches, wagons and accessories of mostly gauge 1 / Garden Scale and 00-gauge. All lots are offered without reserve, with proceeds from this auction going towards the Welshpool & Llanfair Light Railway.

Full details: www.gildings.co.uk/abbott-train-auction

TELEPHONE : 01858 410414 | EMAIL: SALES@GILDINGS.CO.UK
GILDINGS AUCTIONEERS, THE MILL, GREAT BOWDEN ROAD,
MARKET HARBOROUGH LE16 7DE
WWW.GILDINGS.CO.UK

Next Model Train & Meccano Sales - Friday 24th July, Friday 21st August & Friday 25th September 2020

Catalogues & Online Bidding at **www.vectis.co.uk**

STEAM LOCOMOTIVE

HORNBY®

MINIMUM RADIUS 438mm

LMS PRINCESS CORONATION CLASS 'CITY OF EDINBURGH' NO.6241

00 GAUGE MODEL RAILWAYS

WE ARE OPEN!

Bids can be placed online before or during the live auction, also via commission and the telephone.
If you need any assistance with this contact us on **admin@vectis.co.uk**

Contact **Michael Bond 01642 750616** michael.bond@vectis.co.uk
Mike Delaney 01993 709424 mike.delaney@vectis.co.uk
Vectis Auctions Fleck Way, Thornaby, Stockton-on-Tees TS17 9JZ
Oxford Office Unit 5A, West End Industrial Estate, Witney, Oxon OX28 1UB

PLEASE NOTE DUE TO THE COVID-19 RESTRICTIONS
There will be no viewing or attendance in person at auctions for the foreseeable future.
Please check our website and social media pages for forthcoming Model Train sale dates.

Vectis

HEATHCOTE ELECTRONICS

Our range of controls includes: IRDOT infra red detectors, CDUs, 2,3, and 4 aspect automatic signal controls, shuttles, station stops, passing and storage loop automatic controls, block sections, fire, welder flashing light and arcing effects, servo controllers, bouncing semaphore controllers. For OO gauge we have motorised uncoupler, single track and double track gated crossing kits

The pictures show an IRDOT-1 infra red detector. This is used for locating trains in hidden sidings and fiddleyards. The IRDOT board fits beneath the baseboard with the infra red detector and emitter (black "tubes"shown in the right hand picture) fitting in a hole between the sleepers. The infra red beam is reflected from the underside of (unmodified) rolling stock.

When a train is detected the LED lights. It is easy to locate the LED on the control panel with 2 wires from the screw terminals on the left of the board. IRDOT boards are powered from 12 to 16 volts AC or DC. A range of IRDOTs with relays and switch off delays are also available. These may be used for train location, track isolation, operation of points, signals, lineside accessories, replacements for reed switches eliminating the necessity for magnets, interfacing to computers Infra red detection works in light or dark and requires no modifications to track or rolling stock.

IRDOT-1 £11.95 postage £3.80

For more information and videos see our website:

www.heathcote-electronics.co.uk

email: cah@heathcote-electronics.co.uk phone/fax: 01538 756800

Heathcote Electronics, 1 Haydock Close, Cheadle Staffs, ST10 1UE

hobby TRAX

Just a small selection of the items in stock:

Tyson Capacitor Discharge Unit

Give your points some punch!

A new product designed and made by Hobby Trax! Two versions available:

Standard (2 capacitors) **£10.95**

Suitable for most layouts.

Xtra (4 capacitors) **£14.95**

With a little extra punch for larger layouts switching multiple points simultaneously.

We also stock point motors, cable and switches!	
Artprinters scenic backgrounds	£14.99
NEW RANGE Cutters and pliers – many types available	£6.95ea
NEW RANGE Tweezers – always handy!	From £3.00
Linka moulds (stone, brick, timber, roof)	£12.00 ea
Peco point motor extension pins (10 pack – our own design!)	£9.99
Extends a Peco PL-10 point motor to use PL9, 12 or 12X bases	
NEW RANGE Solid water resin 90ml / 350ml	£13.95 / £27.25
NEW RANGE Veissmann eMotion figures	From £30.99
Tired of static figures on your layout? See them move with our new range!	
Gaugemaster DCC01 Prodigy Express controller	£159.95
Gaugemaster DCC02 Prodigy Advance2 controller	£268.95

Full range of decoders from Hornby and Gaugemaster on our site.

REPAIR SERVICE

We now offer a repair service for any model railway related electrical item. Simply book on our website or call us to discuss.

DCC DECODER FITTING

We can now fit a DCC decoder in your locomotive for just £32.99. This includes a Gaugemaster decoder, fitting and return postage!

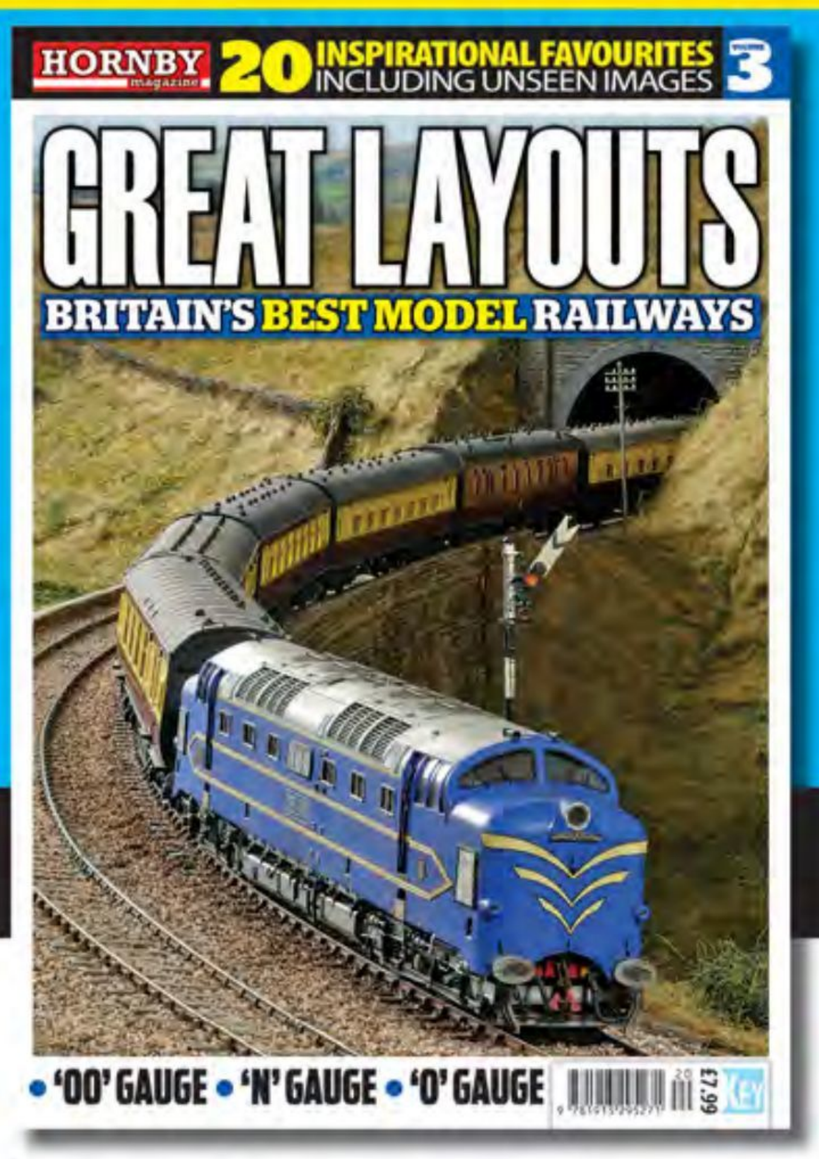
VISIT OUR WEBSITE FOR LOADS MORE PRODUCTS!

www.hobbytrax.co.uk

Tel: 0345 065 4472

BRITAIN'S BEST MODEL RAILWAYS

NEW



Hornby Magazine presents the third volume of its popular Great Layouts series which brings together a selection of the very best model railways to feature in the magazine in one volume. In this third issue of Great Layouts we showcase some of Britain's best loved model railways including John Ryan's Over Peover in 'O' gauge as well as exhibition favourites like Grindley Brook and Whiteacres together with home based layouts that can only be seen in print. Each layout is illustrated with the best photographs from the Hornby Magazine archive including previously unpublished material while we guide you through the story of their conception and construction.

132 pages - special magazine

ORDER DIRECT

£7.99 PLUS FREE P&P*

*Free 2nd class P&P on all UK & BFPO orders. Overseas charges apply.

Free P&P* when you order online at www.keypublishing.com/shop

OR

Call UK: 01780 480404
Overseas: +44 1780 480404

Monday to Friday 9am-5:30pm

171/20

• SUBSCRIBERS CALL FOR YOUR £2.00 DISCOUNT! • SUBSCRIBERS CALL FOR YOUR £2.00 DISCOUNT! •

The Official Book of Hornby's First 100 Years

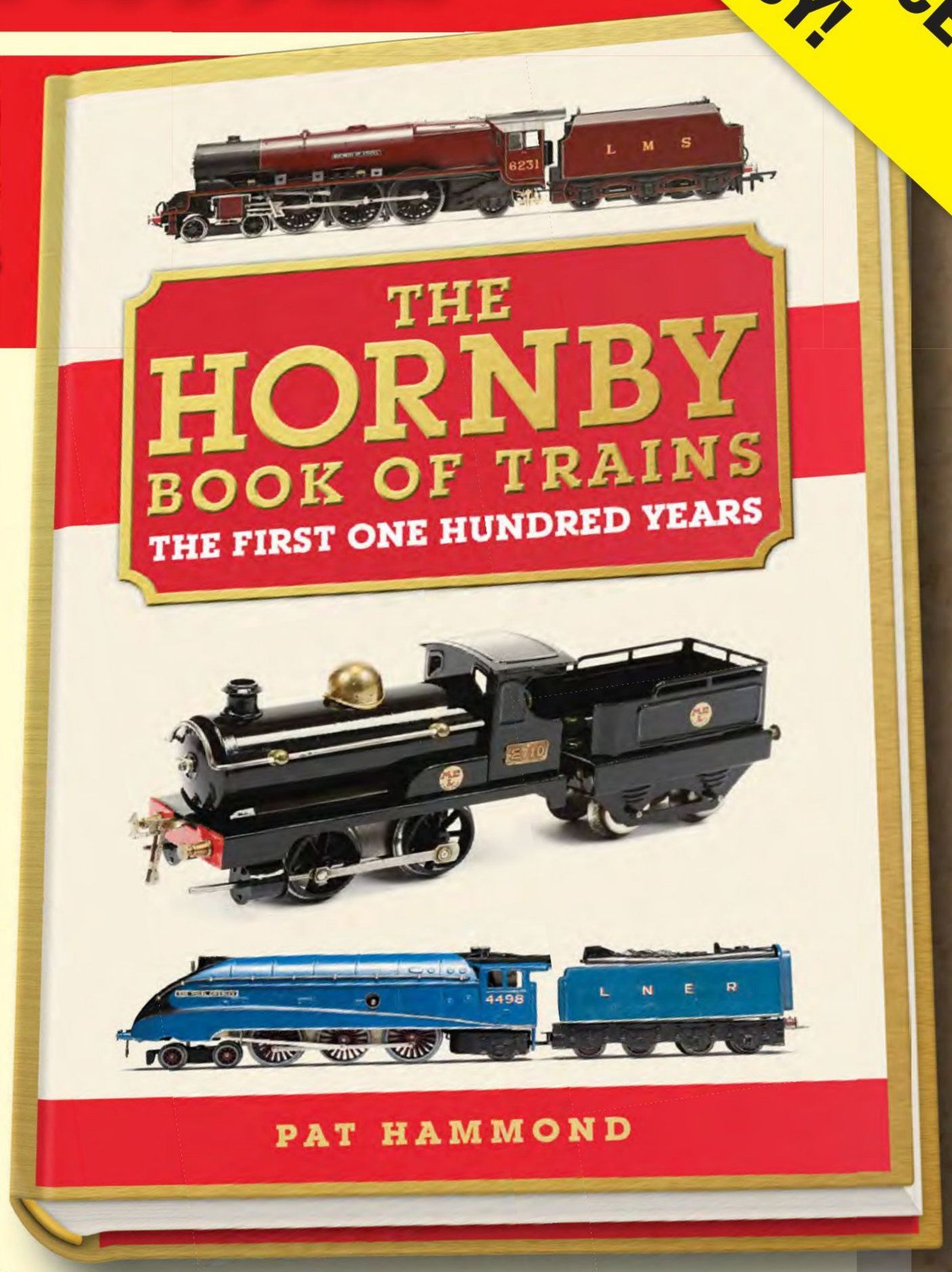
LAST CHANCE TO BUY!

HORNBY®

THE HORNBY BRAND IS A TRUE BRITISH ICON

As Hornby celebrates its Centenary year in 2020, here in one high-quality volume is a year-by-year account of the fortunes, successes and occasional failures of the famous model railway brand.

The story is told by model railway historian, collector and author, Pat Hammond, and includes over 800 illustrations of many of the models that have been produced over the years, including several which never made it into full production.



This definitive history of Hornby is a must-read for all model railway enthusiasts

just £25.00

Hardback, 448 pages

LAST FEW COPIES REMAINING

ORDER NOW TO AVOID DISAPPOINTMENT

880/19

Free P&P* when you order online atwww.keypublishing.com/shop

OR

Call UK: 01780 480404
Overseas: +441780480404
Monday to Friday 9am-5:30pm GMT

KEY Books

HORNBY magazine

SUBSCRIBERS CALL FOR YOUR £5.00 DISCOUNT

MOVING EVERYTHING FROM NUCLEAR WASTE TO TESCO TOMATOES

Direct Rail Services was born out of the privatisation of the railways to ensure the continued safe and secure movement of nuclear material around the country on behalf of parent company British Nuclear Fuels.

Edited by Simon Bendall, this lavishly illustrated 132-page publication covers the history of DRS from its foundation through to today, focusing on its fleet - past and present - together with its diverse portfolio of services.

Scan here to download your copy instantly!

Subscribers call for your £2.00 discount!

ORDER DIRECT

JUST £7.99 PLUS FREE P&P*

*Free 2nd class P&P on all UK & BFPO orders. Overseas charges apply.

Free P&P* when you order online at www.keypublishing.com/shop

OR

Call UK: 01780 480404
Overseas: +44 1780 480404

Monday to Friday 9am-5:30pm GMT

213/20

COVID-19 Service Update: For latest service updates, please visit www.keypublishing.com/faqs/covid-19-delivery-updates

DISCOUNT 'O' GAUGE

TOWER BRASS LOCOMOTIVES
R.T.R in unpainted brass/factory painted

GWR/BR Railcar 19-33.....£550.00
GWR/BR Parcels Railcar No.34.....£550.00
GWR 1361 Early black chassis.....£525.00
GWR/BR 1361 Late black chassis.....£525.00
LY/LMS/BR Pug black.....£450.00
LNER/BR J39 0-6-0 black.....£815.00
GWR/BR 8750 Pannier black chassis . £525.00

FULLY FINISHED R-T-R LOCOS

L&Y/LMS/BR Pug 0-4-0T .....from £525.00
GWR/BR 1361 0-6-0ST.....from £695.00
GWR/BR 8750 Pannier tank .....from £695.00
GWR/BR Razor Edge railcar.....£835.00
GWR/BR Parcels railcar.....£810.00
LNER/BR J39 0-6-0.....£950.00
LMS/BR Original Patriot.....£1650.00
LMS/BR Royal Scot.....£1650.00
Over 100 R-T-R locos available off the shelf

GLADIATOR LOCO KITS

GTR1 LNER/BR Director.....£320.00
GTR3 LNER/BR J11 0-6-0.....£330.00
GTR18 LMS/BR de-streamlined Duchess £425.00
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
GTR62 SR/BR Urie King Arthur.....£425.00
FT5 LNER/BR D17/1 D17/2 4-4-0.....£310.00
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 .....£335.00

MERCIAN LOCO KITS

SG5 LNER/BR J94 Austerity 0-6-0ST ..£180.00
GW2 GWR/BR 14xx Autotank.....£175.00

TOWER COLLECTION (D.J.H) BEGINNERS KITS
Includes wheels, gears and motor

TC1 Class 02 0-4-0 Diesel Shunter.....£250.00
TC3 Andrew Barclay 0-4-0 Steam Shunter £250.00

TOWER COLLECTION LOCO KITS
Require wheels, gears and motor

TC2 LMS streamlined Coronation.....£595.00
TC4 LMS/BR non streamlined Duchess...£595.00
TC5 LMS/BR de-streamlined Duchess....£595.00
TC6 LMS/BR Sir William Stainer.....£595.00
TC7 LMS/BR Black Five 4-6-0.....£595.00
TC14 LMS/BR Stainer 8F 2-8-0.....£595.00

D.J.H LOCO KITS

K300 B.R Standard 84xx 2-6-2T.....£399.00
K301 B.R Standard 2MT 2-6-0.....£457.00
K302 LMS/B.R Ivatt 2-6-2T.....£399.00
K303 LMS/BR Fairburn 2-6-4 T.....£415.00
K310A LNER/BR A3 with Corridor tender.£656.00
K317B BR Britannia with BR1/1A tender.£656.00
K324B B.R 9F 2-10-0 BR1B/BR1C.....£656.00
K326 B.R Class 03 complete kit.....£457.00
K336 LNER/B.R Peppercorn A2.....£656.00
K338 LNER/B.R G5 0-4-0T.....£457.00
K340 B.R Class 14 complete kit.....£457.00
K344 NEW LNER/BR Hunt Class 4-4-0..£525.00
K345 NEW LNER/BR Thompson A2/1 ..£656.00

PECO LINESIDE KITS

LK704 Wooden lineside hut kit.....£21.15
LK705 Brick lineside hut.....£21.15
LK709 Ground Level Signal Box.....£30.45
LK710 Signal Box Interior Kit.....£22.50
LK715 Brick Base Signal Box.....£42.00
LK735 GWR Yard Crane.....£22.80
LK741 GWR spear fencing.....£11.65
LK742 GWR spear fencing ramps.....£11.65
LK743 Field fencing and gates.....£10.55
LK747 Telegraph Poles (6).....£9.85
LK748 Ladders (4).....£7.95
LK749 Loading Gauges (2).....£13.20
LK750 Single track level crossing gates...£21.45
LK758 Platelayers tools.....£6.85
LK759 Platform lamps (4).....£9.25
LK760 Telephone boxes (2).....£9.25
LK761 GWR Station seats (4).....£8.80
LK762 MR/NER station seats (4).....£8.80
LK763 SR/BR Station seats.....£8.80
LK764 Bicycles (8).....£8.80
LK765 Police Call Box.....£10.55
LK790 GWR home or distant signal.....£19.75

SLATERS BR WAGONS AND VANS KITS

7062 B.R 12ton Vanwide.....£38.00
7063 B.R Standard Van.....£38.00
7064 B.R 12ton Standard/Flat Van.....£38.00
7065 B.R Meat Van.....£38.00
7066 B.R. Insulated Van.....£38.00
7067 B.R 13 ton conflat 'A'.....£34.00
7069 B.R Lowfit Wagon.....£34.00
7070 B.R 12 ton Palvan.....£38.00
7071 B.R 13 ton High Goods Wagon.....£34.00
7033 LNER/BR 20T Brake Van.....£49.00
7053 LNER/BR 20T Brake Van.....£53.00
7C020 SECR/SR/BR 4 wheel PLV/GUV..£79.00
7C021P SR/BR Bogie Van.....£126.00
7C022 SR/BR 4 wheel BY.....£80.00

PECO WAGON KITS

W601 GWR Toad brake van.....£42.75
W602 GWR Permanent Way brake.....£42.75
W603 GWR 6 wheel brake.....£44.50
W604 GWR 4 plank open.....£36.00
W605 GWR Steel Open.....£36.00
W606 GWR 10 ton Van.....£44.00
W607 BR 16 ton Mineral wagon.....£44.50
W608 BR 27 ton Iron Ore wagon.....£44.00
W609 BR 20 ton Pig Iron wagon.....£44.00

PECO 'O' GAUGE TRACKWORK

SLE786BH Curved R/H Point.....£58.00
SLE787BH Curved L/H Point.....£58.00
SL700BH 12 yards flexitrack.....£85.75
SLE791BH Right Hand Point.....£46.25
SLE792BH Left Hand Point.....£46.25
SLE797BH Y Point.....£46.25
SLE790BH Double Slip.....£97.50
SLE794BH Long Crossing.....£52.50
SL10 24 metal railjoiners.....£3.00
SL11 12 insulated railjoiners.....£2.85
SL740BH Buffer stop.....£3.00
TP1 Long Track pins (15mm).....£3.25
ST700 Box (6) 393mm straight.....£48.00
ST725 Half circle 1028mm radius curves..£51.25
STU750BH R/H Setrack Point.....£44.25
STU751BH L/H Setrack Point.....£44.25
PL33 Microswitch.....£5.95
PL19 Microswitch Housing (2).....£4.85
PL80 Power Feed.....£7.50

H.M.R.S. TRANSFERS

H1 L.M.S. gold loco and coach.....£20.00
H2 L.M.S. yellow loco and coach.....£20.00
H2A L.M.S. black style/Crewe loco.....£20.00
H3 L.M.S. loco lining.....£20.00
H3A L.M.S. coach lining.....£20.00
H4 L.N.E.R. green loco and coach.....£20.00
H4A L.N.E.R. black loco and Gill Sands.£20.00
H5 L.N.E.R. loco lining.....£20.00
H6 L.M.S. goods wagon lettering.....£18.50
H7 G.W.R. loco and coach lettering.....£20.00
H8 G.W.R. loco and coach lining.....£20.00
H9 S.R. Maunsell loco and coach lettering..£20.00
H10 S.R. Bulleid loco and coach lettering.£20.00
H11 G.W.R. goods wagon lettering.....£18.50
H12 L.N.E.R. goods wagon lettering.....£18.50
H13 S.R. goods wagon lettering.....£18.50
H14 BR steam loco and coach lettering....£20.00
H15 BR blue diesel and coach lettering....£18.50
H16 LNWR/WCJS loco coach & wgn £21.00
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
H40 G.N.R. coach lettering.....£21.00

PARKSIDE WAGON KITS

PS14 BR Grampus Ballast wagon.....£34.50
PS15 BR 21 Ton Mineral wagon.....£34.50
PS16 LNER Loco Coal wagon.....£34.50
PS17 BR 12 ton Pipe wagon.....£34.50
PS23 GWR/BR 13 ton open wagon.....£34.50
PS24 GWR/BR 12 ton unfitted van.....£34.50
PS25 BR 24.5 ton mineral wagon.....£34.50
PS26 GWR/BR 12 ton fitted van.....£34.50
PS27 GWR/BR 12 ton open with tarp bar £34.50
PS28 GWR/BR 12 ton plywood van.....£34.50
PS29 GWR/BR Fruit van.....£34.50
PS30 BR 16 ton mineral wagon.....£34.50
PS31 BR 16 ton slope sided mineral.....£34.50
PS32 BR 16 ton mineral (ex SNCF).....£34.50
PS33 BR 8 Plank wooden mineral.....£34.50
PS42 LMS/BR 12 ton open wagon.....£34.50
PS45 LNER/BR 12 ton goods van.....£34.50
PS46 LNER/BR 12 ton fruit van.....£34.50
PS49 GWR/BR Mica van.....£34.50
PS100 SR/BR Banana van.....£34.50
PS101 SR/BR Meat van.....£34.50
PS104 BR 21 ton coal hopper.....£34.50
PS106 SR/BR Cattle truck.....£34.50
PS112 GWR/BR Gunpowder van.....£34.50
PS114 LMS/BR Banana van.....£34.50
PS115 LNER/BR Brake Van.....£41.00

BACHMANN SCENECRAFT BUILDINGS

47040 Diesel Refuelling Point.....£39.95
47047 Hampton Hill Platelayers Hut.....£19.95
47203 Low Relief Corner Shop.....£19.95
47009 Single Engine Shed..Special offer £60.00
47036 Sectional Lineside Hut.....£20.50

NEW DAPOL 14/48/58xx
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.
BASIC RRP £225.00 OUR PRICE £191.25
Sound fitted RRP £400.00 OUR PRICE £345.00
NOW AVAILABLE

LIONHEART SUBURBAN COACHES
Fully finished superb quality with interior details and lights.
2 car 'B' set G.W.R or B.R 6 types
RRP £470.50 OUR PRICE £399.99
4 car D set G.W.R or B.R 4 types
RRP £823.50 OUR PRICE £699.99

NEW DAPOL SENTINEL Y1/Y3
LNER, LMS, GWR, B.R or N.C.B
Basic RRP £175.00 OUR PRICE £148.75
DCC fitted RRP £205.00 OUR PRICE £174.25
Sound fitted RRP 350.00 OUR PRICE £297.50
NOW AVAILABLE

DAPOL (EX LIONHEART) PANNIERS
64XX and 74XX G.W.R or B.R
List Price £399.00 OUR PRICE £340.00
Sound Fitted RRP £550.00 OUR PRICE £467.50

NEW DAPOL 57XX/8750 PANNIERS
57xx in BR Livery
8750 in GWR & BR Liveries
with riveted tank option
Basic Version RRP £235.00 OUR PRICE £199.75
DCC Fitted RRP£265.00 OUR PRICE £225.25
AVAILABLE 2020

NEW DAPOL 10 FOOT W.B WAGONS
B.R Open Wagons (various)
RRP £46.35 OUR PRICE £39.50
B.R VEA, VBA, MEAT, INSULATED AND STANDARD VANS (12 TYPES)
RRP £49.95 OUR PRICE £42.50

NEW DAPOL
B.R Standard 20T Brakevan
3 grey liveries available
RRP £79.95 OUR PRICE £67.95
CUSTOM WEATHERED £92.25

DAPOL HEA & HAA COALWAGONS
4 Types of each
RRP £54.95 OUR PRICE £46.95
HAA'S LAST FEW - HEA'S 2020 RELEASE

TOWER MODELS LIMITED EDITION DAPOL WAGON SETS
Set of 6 Esso or Shell BP Tankers
RRP £324.48 OUR PRICE £275.00
Set Of Six Planked & Plywood Vans
RRP £299.70 OUR PRICE £255.00
NOW AVAILABLE

NEW DAPOL B.R MARK 1 COACHES
Available as CK, SO, SK and BSK in crimson & cream, S.R green, blue & grey, chocolate & cream and maroon, numbered or un-numbered
Basic RRP £199.00 OUR PRICE £169.15
DCC fitted RRP £234.00 OUR PRICE £198.90
NOW AVAILABLE

DAPOL (EX LIONHEART) 45XX PRAIRIE
Superb quality fully finished with diecast body and excellent detail. Choice of six liveries, numbered and un-numbered.
RRP £495.00 OUR PRICE £420.75
Sound fitted RRP £650.00 OUR PRICE £552.50
Available Spring 2020 Reserve yours now

DAPOL CLASS 121 & 122
Choice of 5 liveries
List Price £299.00 OUR PRICE £254.15
DCC Sound List Price £499.00 OUR PRICE £424.15
Available Soon. Reserve yours now

NEW DAPOL MOTORISED SIGNALS
GWR & LMS Home 4 versions
List Price £55.95
OUR PRICE £47.55

NEW HELJAN CLASS 25/3
3 liveries remaining
RRP £525.00 OUR PRICE £446.25
LAST FEW

HELJAN CLASS 25/1
Green full yellow ends
RRP £599.00 OUR PRICE £475.00

NEW HELJAN CLASS 117
2 Car and 3 Car D.M.U
Available in a range of liveries from Cats Whiskers to N.S.E
Available 2020
Reserve yours now

NEW HELJAN CLASS 37/4
4 liveries available
RRP £599.00
OUR PRICE £509.15
NOW AVAILABLE

NEW HELJAN 61XX PRAIRIE TANK
HJ6100 6110 Great Western
HJ6101 6106 G.W.R
HJ6102 6114 B.R. unlined black
HJ6103 6111 B.R. unlined green
HJ6104 6132 B.R. lined green
HJ6120 un-numbered Great Western
HJ6121 un-numbered B.R. unlined black
HJ6122 un-numbered B.R. unlined green
HJ6123 un-numbered B.R. lined green
HJ6124 5184 Great Western
HJ6125 4144 B.R. unlined black
HJ6126 5158 B.R. lined green
RRP £699.00 OUR PRICE £594.15
NOW AVAILABLE
See our website for full details

NEW HELJAN 43XX MOGUL
6 standard versions in G.W.R and B.R all un-numbered and 2 limited editions numbered
List Price £779.00 OUR PRICE £662.15
NOW AVAILABLE

HELJAN CLASS 45
2 liveries available
RRP £699.00 OUR PRICE £550.00
LAST FEW

NEW HELJAN CLASS 03
5 liveries available
Both numbered and un-numbered
List Price £399.00 OUR PRICE £335.75
NOW AVAILABLE

NEW HELJAN CLASS 05
HJ2590 B.R. Plain Green
HJ2591 B.R. Green with chevrons early
HJ2592 B.R. Green with chevrons late
HJ2593 B.R. Blue with chevrons
HJ2594 CEGB Yellow
HJ2595 NCB Green
HJ2596 Industrial Maroon
RRP £395.00 OUR PRICE £315.00
AVAILABLE NOW

NEW HELJAN WAGONS
Heljan Catfish RRP £99.95
OUR PRICE £79.95 or £75.00 for 6 or more

NEW HELJAN CLASS 33
Early and Late Versions
RRP £549.00 OUR PRICE £466.65
11 Liveries IN STOCK

NEW HELJAN CLASS 31/0
Limited Re-run Six liveries planned
RRP £549.00 OUR PRICE £466.65
Available July 2020

HELJAN CLASS 31/1 & 31/4
Various liveries
RRP £549.00 OUR PRICE £466.65
Available late 2020

HELJAN CLASS 35 HYMEK
Limited Re-run Four liveries planned
RRP £495.00 OUR PRICE £420.75
NOW AVAILABLE

HELJAN CLASS 55
3 Liveries Available
RRP £599.00 OUR PRICE £509.15
NOW AVAILABLE

NEW HELJAN CLASS 47
2 Versions, 1960/70s & 1980/90s
Eleven liveries planned
RRP £699.00 OUR PRICE £594.15
AVAILABLE LATE 2020

HELJAN CLASS 56
Total of 8 liveries
RRP £699.00 OUR PRICE £594.15
AVAILABLE LATE 2020

HELJAN CLASS 40
CENTRE HEADCODE 5 liveries
RRP £549.00 OUR PRICE £466.65
AVAILABLE LATE 2020

NEW HELJAN CLASS 17
Four liveries planned Price TBC
AVAILABLE 2020

HELJAN DIESEL DEPOT
Two Road Shed RRP £89.00 OUR PRICE £75.00
Extension Pack RRP £39.00 OUR PRICE £35.25
Spare Ends (3) RRP £19.00 OUR PRICE £16.00
See website for details and sizes

HELJAN AC RAILBUS CLEARANCE
Light green with speed whiskers
Dark green with yellow panel
List Price £495.00
SPECIAL OFFER £299.95

NEW HELJAN CLASS 50
Selling fast, 3 liveries available
RRP £699.00 OUR PRICE £594.15
NOW AVAILABLE!

HELJAN BR PARCELS STOCK
G.U.V available B.R, Parcels red, Express Parcels blue or S.R green BG available BR maroon, crimson & cream, chocolate & cream, Newspapers blue or Royal Mail red
RRP £325.00 OUR PRICE £169.15
STOCKS NOW RUNNING LOW

HELJAN CLASS 42 WARSHIP
8 Liveries Available
RRP £699.00 our price £550.00

OUR WEBSITE CONTAINS 4,000 IMAGES AND IS UPDATED SEVERAL TIMES A WEEK

TOWER MODELS, 44 Cookson St., Blackpool FY1 3ED
Email: sales@tower-models.com
TEL: 01253 623797 or 623799

TELEPHONE CREDIT CARD ORDERS WELCOME. WORLDWIDE MAIL ORDER
Visit our well stocked shop, 200 yards from Talbot Rd. Bus Station (Blackpool North Railway Station 400 yards). Open Mon to Sat 9.30 to 3.00
Visit our website: www.tower-models.com

POSTAGE CHARGES

Orders up to £35.00 plus £2.50 p&p.
Orders £35.01 to £150.00 plus £6.00 p&p.
ORDERS OVER £150.00 POST FREE
Overseas orders postage charged at cost.

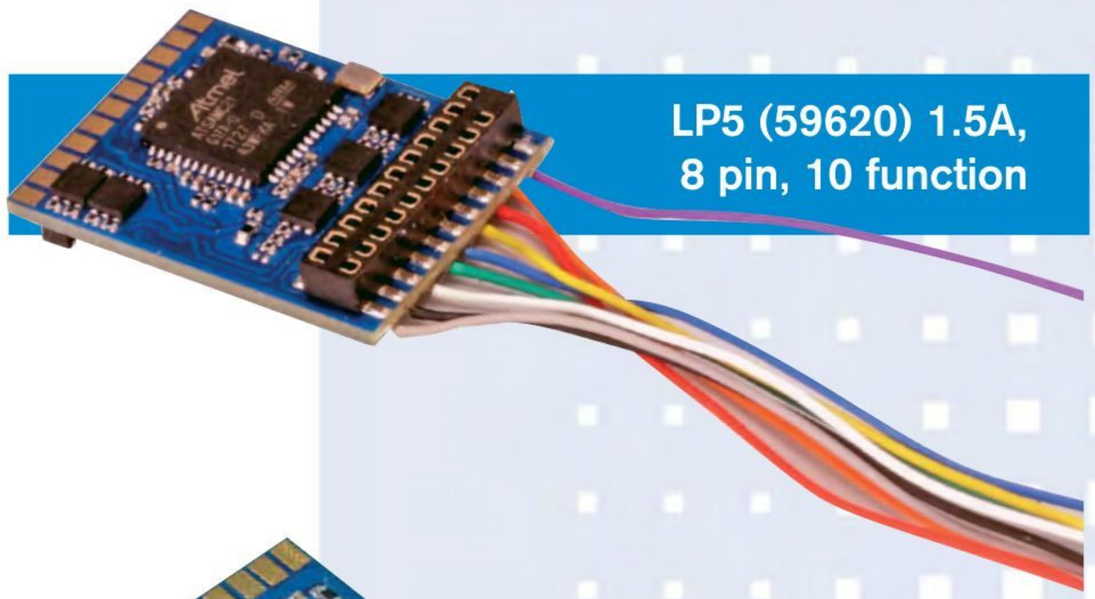
All prices include VAT @ 20%.
We reserve the right to alter prices without notice.

For your complete DCC Experience

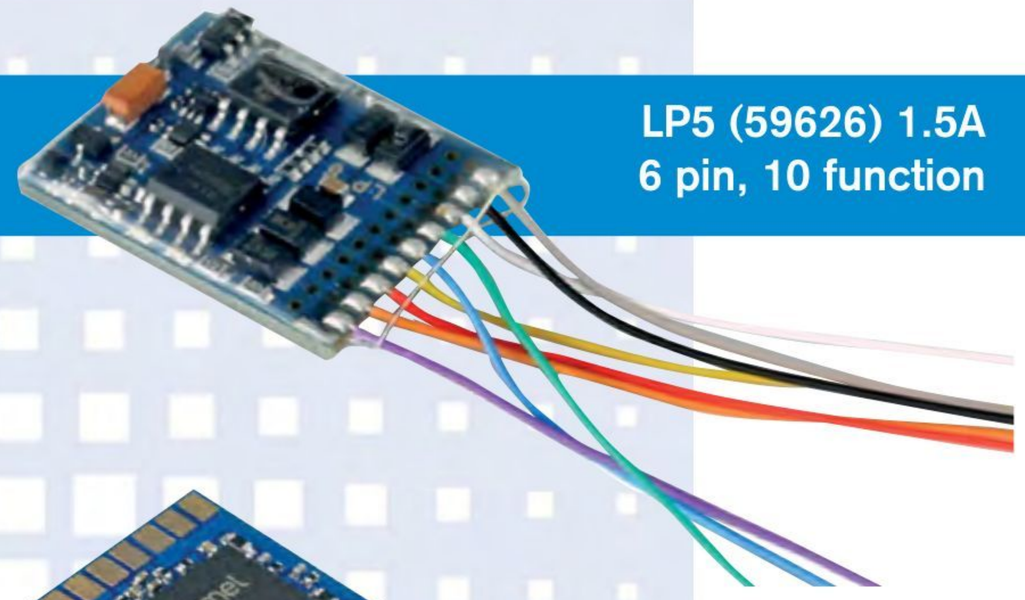
LOK PILOT

If sound is not your thing why not pick one of these great running decoders?

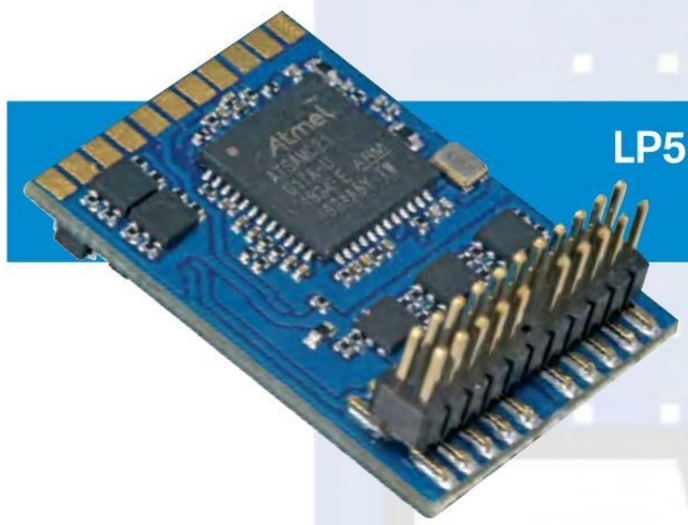
OUR NEW RANGE OF LOKPILOT V5 RUNNING DECODERS



LP5 (59620) 1.5A,
8 pin, 10 function



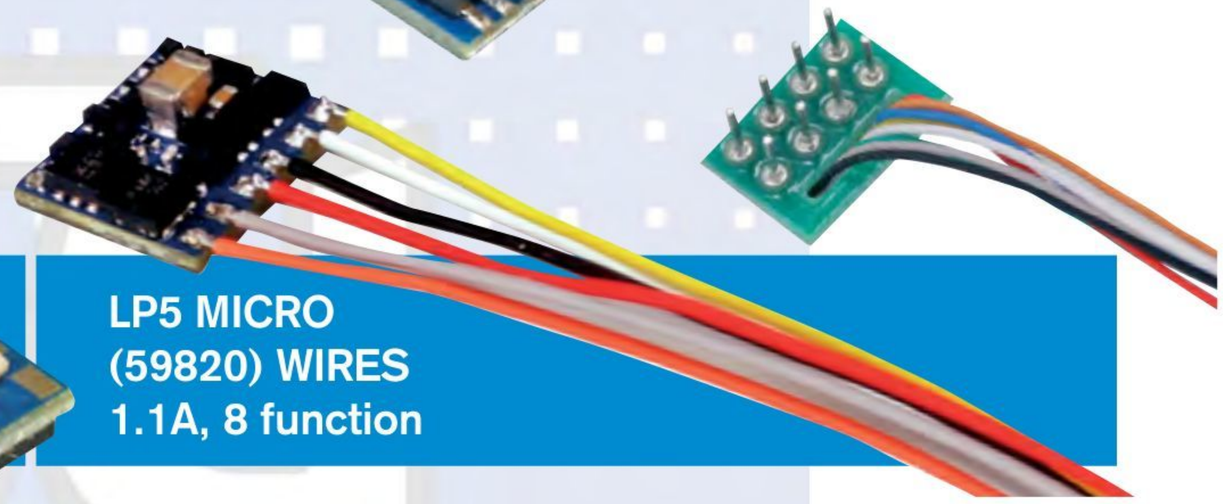
LP5 (59626) 1.5A
6 pin, 10 function



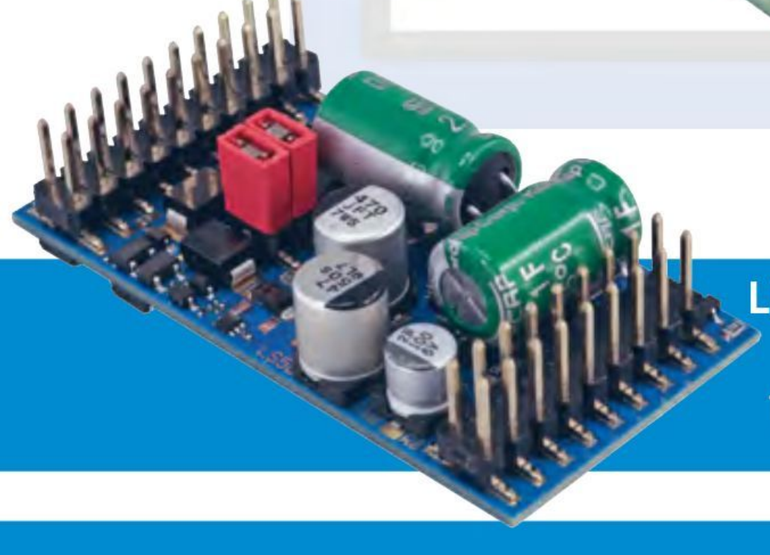
LP5 (59622) PLUX22
1.5A, 10 function

LP5 (59629) 1.5A
21 pin, 10 function

LP5 MICRO (59828)
NEXT18
0.75A, 10 function



LP5 MICRO
(59820) WIRES
1.1A, 8 function



LP5 (59315)
4A,
11 function

LP STANDARD
(53611) 8 pin, (53614)
21 pin, 0.9A four function

T: 01934 515382 • UK distributor since 2006 • See website for further details

www.southwestdigital.co.uk

The Ultimate in Servo Mounts with Linear Action

Precision Lasercut aluminium mounts
for standard 9g servos (HK15178, SG90 or similar)

- ⇨ Will work on all scales from "z" to "G" scale
- ⇨ Easy assemble videos and documentation.
- ⇨ We also sell control boards and servos.

Quote "HOSP" for 5% Discount

EMAIL: dingoservo@gmail.com MOB: 07754901324

www.YorkModelrail.com

Online shop, selling our unique range of precision laser-cut scenery detailing and architectural components; helping you enjoy building your railway layouts

Plus affordable bespoke laser cutting service
for everything else that you can't buy ready made

N, 00 & 0 scales. Bespoke service for ALL other scales

Printed price lists available in N, 00 & 0 scale if you don't have internet access.

York Modelmaking 01904 400358
Unit 13, Bull Centre, Stockton-on-the-Forest, York, YO32 9LE

Just like the windmill, we never closed, despite COVID-19 reducing our workable hours by 55%, we are still sending out orders twice a week - thank you for your support!

We have the brand-new Tenshodo 24.5mm wheelbase motor-bogie(10.5mm disc wheels) & "CORELESS" motor.

PLUS: Hanazono motors and motor--bogies, Mashima motors (yes we still have some), Shinohara trackwork, Romford & Markits products, Scale Link's own wheels, W&T wheels & kits, Rowland Miniatures, BMMO bus kits Scale Link's 00-scale kits of cars, lorries, tractors from 1903 to the 1960's - Austin 7's to Vauxhall's, AEC's to Trojan's, MTH-trains, Darstaed, 1:43 diecasts and lots, lots more in our web catalogue. Tel: 01747811817

Scale Link Ltd., 27, Applins Farm Business Centre, Farrington, Blandford Forum,
Dorset DT11 8RA
Business hours: 9-4 Monday -Thusday.

MasterCard VISA AMERICAN EXPRESS

THE JUNCTION BOX

WANTED - WANTED - WANTED -

MODEL RAILWAYS

Top prices paid for
N and OO gauge collections or
individual items, such as

• Airfix • Bachmann
• Graham Farish • Hornby
• Lima • Mainline • Peco
or any other makes.

Will travel to collect.

Please forward your list of items by E-mail to: **ian@ihunter10.plus.com**

Or send to: The Junction Box, 15, Shepherd Terrace, Haltwhistle, Northumberland NE49 9LS

Or contact Ian **07763 806306 / 01434 320328**

SELL WITH ANORAKS ANONYMOUS - THE BIGGEST COMPANIES DON'T ALWAYS OFFER THE BEST PRICES!

WE WANT YOUR MODEL RAILWAYS

NORTH AMERICAN RAILWAY SPECIALISTS

BRITISH

EUROPEAN

AMERICAN

- Full & part collections purchased
- Willing to travel to collect or view
- Same day payment – cash or bank transfer
- Everything considered, in any condition - large collections sought after

CONTACT US

01302 371623 / 07526 768178

anoraksanonymous@googlemail.com

MonkBar
Model Shop
Est. 1963

2 Goodramgate
York - YO1 7LQ
01904 659423
info@monkbarmodelshop.co.uk

OO & N Gauge Model Railways

Diecast Planes & Vehicles - Plastic Kits & Figures - Scalextric - Jigsaws

Visit us in York

Only 2 minutes walk from York Minster

Open Monday - Saturday 9am - 5.30pm

Stockists of Hornby, Bachmann, Graham Farish, Peco, Dapol, Gaugemaster, Ratio, Wills, Woodland Scenics, Metcalfe, Oxford Diecast, Base Toys and many more

monkbarmodelshop.co.uk

Mike Pett's Supercast 00 Model Railway Figures

Painted 00 Gauge £4.99 - Unpainted £1.99 each - P&P £2.75
Painted O Gauge £10.50 - Primed £8.50 - P&P £3.99
NEW Michael Portillo O Gauge, Brunel O and 00 button badges for rail clubs and societies available

Supercast figures *(Mike Pett)* voted winner
Model Rail 2017 National Awards – Scenic Accessory Of The Year

Please make cheques payable to: Mike Pett. 12 Chatham Street, Ramsgate, Kent, CT11 7PP
Tel: 01843 593417 • Mob: 07976 724225 • Email: mikepettsupercast@gmail.com

MORRIS MODELS
NORTH LANCING

80 Manor Road, N Lancing,
West Sussex, BN15 0HD
Tel 01903 754850
www.morris-models..co.uk
info@morrismodels.co.uk

We are between Brighton & Worthing, just off A27 west of Shoreham Airport

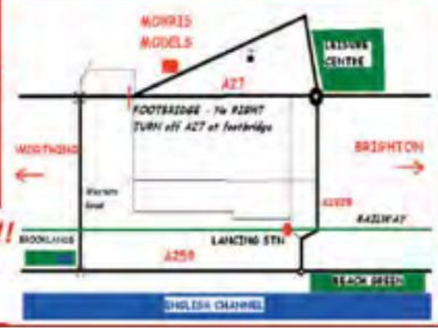
BRITISH RAILWAYS
HORNBY · GRAHAM FARISH · PECO · dapol · HELJAN
PLUS MANY OTHER RANGES OF SCENIC MATERAILS, BUILDINGS, VEHICLES etc

BICYC-LED

OO/HO & N Cycles & M/cycles with working lights!! See our webshop for details

Easy free parking!!
Open Mon – Sat
9.30 to 5.00

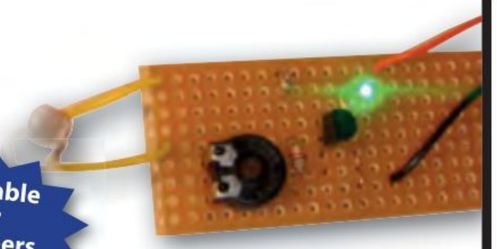
CONTINENTAL RAILWAYS
FLEISCHMANN · Roco · BRAWA · TRIX · herpa · FALLER · Preiser · BUSCH · NOCH · MINITRAINS



MERG
MODEL ELECTRONIC RAILWAY GROUP
Leading Model Railway Electronics - since 1967 -

LEARN ABOUT ELECTRONICS WITH OUR MODEL RAILWAY BEGINNER KITS AT AFFORDABLE PRICES.

SIMPLE KIT PMP2
LIGHT OPERATED TRAIN DETECTOR
£0.62



www.merg.org.uk
Email: **enquiries@merg.org.uk** for more information

NEWTON REPLICAS MIDLANDS LTD

BRITAINS'S LEADING NAMEPLATE MANUFACTURER

Replicas & originals of: • Nameplates - Full & Half • Headboards • Numberplates • Shed Plates • Depot Plaques *and more!*

Full catalogue available on our website or send two first class stamps to:
Unit 3, Lowmoor Court, Off Sidings Rd, Kirkby in Ashfield, Notts NG17 7DG
01623 755962 • M: 07857 701612 • E: sales@newtonreplicas.com

www.newtonreplicas.com

MODEL RAILWAY SOLUTIONS
Established 2010

NEW MODEL SHOP NOW OPEN!

- All well known brands stocked.
- Free on-site parking.
- Gift cards available.
- See website for info on our Modular Baseboard & Helix systems.
- We also purchase any unwanted railway items or collections.
- Online shop to follow shortly.

Unit 1, 10-12 Alder Hills,
Poole, Dorset. BH12 4AL.
01202 798068.

www.modelrailwaysolutions.co.uk
Email: info@modelrailwaysolutions.co.uk

Roxey MOULDINGS

58 Dudley Road, Walton-on-Thames,
Surrey KT12 2JU Tel: 01932 245439
Online Shop: roxeymouldings.co.uk
VISA/Mastercard/Maestro/Switch accepted

Frecclesham by Newport MRS

Loco Kits in 4mm & 7mm Scales
Coach Kits in 4mm & 7mm Scales
Wagon Kits in 4mm & 7mm Scales
Wheels & Accessories in 4mm & 7mm
Motors & Gearboxes for 4mm & 7mm
Tenshodo Motor Bogies & Motors
Markits/Romford Driving Wheels & Accessories
Alan Gibson Accessories
List A5 SAE

Coach Kits in 0 & 00 Gauges

LX314-OO Industrial Unit / Lineside Building
LASER CUT OO SCALE KIT

Highly detailed kit with laser engraved brick

Only £18.99 + P&P

scalemodelscenery.co.uk
Order online or call 01530 456952

SAS

Est. 1991

specialauctionservices.com

Trains for the Collector

26 August, 28 October

Trains Galore

15 December

Fine Hornby-Dublo – the tip of the iceberg

Our late summer, autumn and Christmas auctions will be packed with hundreds, if not thousands, of lots of interesting and collectible locomotives, rolling stock and accessories from fine scale to the great ready-to-run makers. One huge collection has been packed up for around fifty years, so we are really excited to know what the dusty old boxes will reveal.

We are still taking in entries for these sales, so do get in touch if you would like a visit, following government guidance of course.

Please contact: Hugo Marsh, Bob Leggett or Graham Bilbe
on + 44 (0)1635 580595
or mail@specialauctionservices.com

Plenty Close, Off Hambridge Road, Newbury RG14 5RL

PROTOTYPE MODELS

Scale Models of Real Buildings

Production News

Although our range is rather depleted, some of our most popular products are still in stock. Other items will re-appear in due course.

4mm scale kits

46E8	LNER Loco shed	£9.00
46E9	LNER Station	£7.00
46M6	LMS Goods shed	£7.50
46M8	LMS Loco shed	£8.50
46S8	SR Loco shed	£5.00
46T2	Victorian Bridges	£6.00
46T4	Corner Pub	£6.00
46W5	GWR Goods office	£3.00
46W8	GWR Loco shed	£5.00
46W9	GWR Station	£8.50

2mm scale kits

26E8	LNER Loco shed	£2.50
26M6	LMS Goods shed	£3.00
26M8	LMS Loco shed	£4.50
26S8	SR Loco shed	£3.00
26W5	GWR asst. b'dings	£2.50

7mm scale kit

76E7	LNER Signal Box	£16.00

4mm brick papers

46BR	Red brick	£1.50
46RT	Red tile	£1.50
46GT	Grey tile	£1.50

2mm brick papers

26BR	Red brick	£1.00
26BS	Black sooty brick	£1.00
26RT	Red tile (5)	£1.50
26GT	Grey tile (5)	£1.50

FREESTONE MODEL ACCESSORIES

28 Newland Mill, Witney OX28 3HH

Tel: 01993 775979

e: sales@freestonemodel.co.uk

UK P&P £3.00

CM3MODELS

Call: 0333 050 2763

LAYOUT BUILDING SUPPLIES

LaisDcc Chips

International postage

Foliage / Lichen and Scatters
25 & 50mm Rubberised Horsehair
Teddy Bear Fur for grass and embankments
Plaster Bandage, LaisDcc Decoders
Wire, Connectors, Switches for both DCC & Conventional wiring
Modelling Card compatible with Scalescenes Kits
Styrene / Brass tubes & sections
Alan Gibson Coach & Wagon wheels and parts
Model Scene grass mats & flock

www.cm3models.co.uk

Email: **sales@cm3models.co.uk**

HAMPSHIRE MODELS

OPENING:
Mon, Tues, Wed & Fri: **9am-5pm**
Thurs: **9am-3pm**

T: **01256 406604** · E: **enquiries@hampshiremodels.co.uk**

Unit 29, Basepoint Business Centre, Stroudley Road, Basingstoke RG24 8UP

FOR ALL YOUR MODELLING NEEDS

from 'N' GAUGE through to 'O' GAUGE, both new and pre-owned

PECO · GRAHAM FARISH by BACHMANN · GAUGEMASTER · PIKO · METCALFE · HORNBY · FLEISCHMANN · Roco · dapol

www.hampshiremodels.co.uk

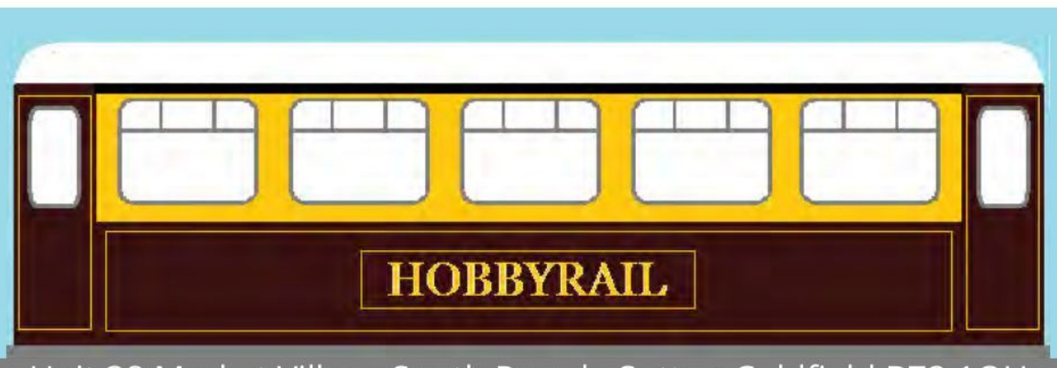
ESR Electronic Components Ltd

Mon to Fri 08:30 - 17.00, Sat 08:30 - 15:30 Tel: 0191 251 4363

- Diodes • Capacitors
- Electronic Modules • LED's
- Relays • Resistors • PCB's
- Switches • Transformers
- Multipole Connectors
- Cable • Lamps • Tools
- Tag Strip • Wire

Station Road, Cullercoats, North Shields, Tyne & Wear. NE30 4PQ

sales@esr.co.uk www.esr.co.uk



Unit 38 Market Village South Parade Sutton Coldfield B72 1QU

Tel: 07981 757023

Monday - Friday 10.30 till 4.30 • Saturday 9.00 till 4.30

Bachmann, Dapol, Gaugemaster, Peco, etc.
Gauges N to 0.Modelling tools and materials
Locomotive repair and decoder fitting service

ISINGLASS

Isinglass-Models.co.uk

Photo Courtesy Tony Wright

New Kits include:
GNR Diag 310 Milk Brake
Gresley 32' Brake
GNR All 3rd Quad
GE Diagram 80 Quint

23 Oak Tree Road, Thatcham. Berks. RG19 4QP

Email:Andy@Isinglass-models.co.uk 07791 241863

FLAÍR RAIL

New website up and running
www.flair-rail.co.uk

WE HAVE MOVED! Please contact us for details
- Viewing by appointment only, due to covid

VIEW OUR RANGE ON OUR WEB SITE OR E-BAY SITES

T: **01621 786198** M: **07736 790318**

E: **roger@flair-rail.co.uk**

FIND US ON:

Selling your model railways?

Warwick and Warwick have an expanding requirement for early to modern collections of British and Foreign trains and train sets from large accumulations to items of individual value. Our customer base is increasing dramatically and we need an ever larger supply of quality material to keep pace with demand. The market has never been stronger and if you are considering the sale of your collection, now is the time to act.

FREE VALUATIONS - We will provide a free, professional valuation of your collection, without obligation on your part to proceed. Either we will make you a fair, binding private treaty offer, or we will recommend inclusion of your property in our next public auction.

FREE TRANSPORTATION - We can arrange insured transportation of your collection to our Warwick offices completely free of charge. If you decline our offer, we ask you to cover the return carriage costs only.

FREE VISITS - Visits by our valuers are possible anywhere in the country or abroad in order to assess more valuable collections. Please phone for details.

ADVISORY DAYS - We are holding a series of advisory days in all regions of the UK, please visit our website or telephone for details

EXCELLENT PRICES - Because of the strength of our customer base we are in a position to offer prices that we feel sure will exceed your expectations.

ACT NOW - Telephone or email Richard Beale today with details of your property.

Get the experts on your side!

Warwick & Warwick

Auctioneers and Valuers
www.warwickandwarwick.com

Warwick & Warwick Ltd., Chalon House, Scar Bank,
Millers Road, Warwick CV34 5DB England

Tel: (01926) 499031 • Fax: (01926) 491906
Email: richard.beale@warwickandwarwick.com

model making materials

4D

model making services

Online shop offering a wide range of scenic & scratch building materials

www.modelshop.co.uk

Our workshop offers Bespoke Services including Casting, Photo Etching, Dry Transfers & Laser Cutting

OSBORN'S MODELS

7 HONESTONE ST, BIDEFORD, N.DEVON, EX39 2DL 01237 423453

www.osbornsmodels.com

C&L FINESCALE TRACK BUILDING SYSTEMS

125 Reaver House, 12 East St, Epsom KT17 1HX

Office hours: 10.00 - 14.00 Monday, Tuesday & Thursday.
14.00 - 19.00 Wednesdays - Closed Friday, Saturday & Sunday

C & L have been suppliers of well proven range of track components for over 30 years in both 4mm and 7mm scales with our easy to build point kits and flexi track including a range other useful materials check out our new website for up to date product listings and exhibition calendar. **New** 4mm code 75 bull head track 60ft panels and 2mm British Finescale range of parts.

ALL NEW
2 & 3 Bolt Chair Sprues

Tel: **01372 748490**

www.clfinescale.co.uk

Bespoke and trade enquiries please call Nigel Julian on
07971 741478
or
01332 781795
email: nigel@airframed.co.uk

AirFramed
Bespoke Glass Display Cases
www.airframed.co.uk

OO gauge loco & tender cases with mirrored or clear back wall
(14" x 3" x 3") £35.00 plus p&p
Bespoke sizes made to order. Prices on application.

C&M Models

1 Crosby Street, Carlisle CA1 1DQ

E-mail: sales@candmmodels.co.uk
Website: https://candmmodels.co.uk
Phone: 01228 514689

Opening hours: Tues. > Sat.
10a.m. to 4.30p.m.

Close to the station and Carlisle city centre

Mail order and online orders welcome

Possibly Hampshire's Largest Stockist of Model Railways, Diecast, Books, Magazines, Scalextric and much more...

Full range of model railway products from the leading manufacturers including:

Hornby, Bachmann, Dapol, Graham Farish, Heljan, Oxford Rail, Peco, Dapol, Ratio, Wills, Superquick, Metcalfe, Gaugemaster, Parkside, Railmatch, Woodland Scenics and many, many more.

DCC equipment from DCC Concepts, ESU, Gaugemaster, Hornby and Bachmann. Sound decoders from South West Digital.

Also stockists of Die cast models including: Corgi, EFE, Oxford Die-Cast, Base Toys & Classix.

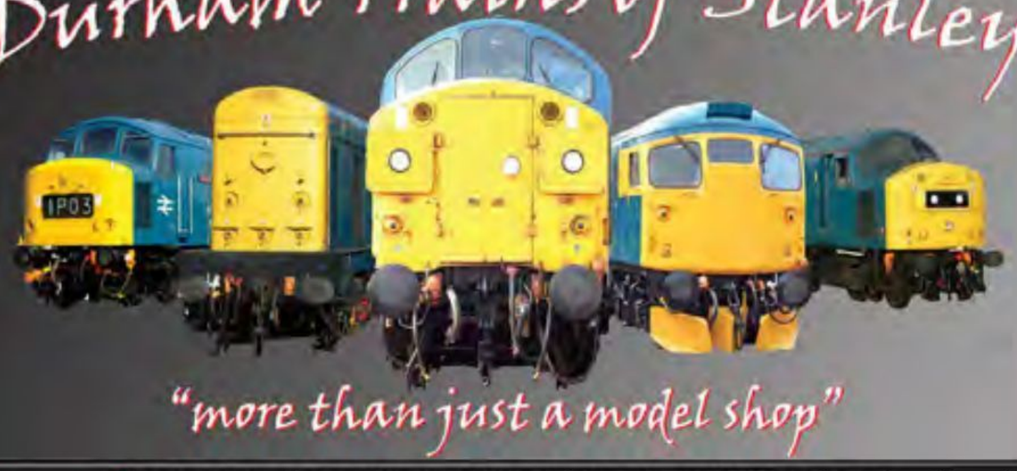
Modelling materials & tools including: MIG, Vallejo & AK

accurascale OFFICIAL STOCKIST

Wide selection of books, DVDs & Magazines.

Monday: Closed
Tuesday to Saturday: 9.00am to 5.00pm
Sunday: See website / call
Tel: 01420 542244
altonmodelcentre.co.uk
7a Normandy Street, Alton
Hants, GU34 1DD

Durham Trains of Stanley



"more than just a model shop"

Opening hours • Monday 09.30-17.00 • Tuesday 09.30-17.00 • Wednesday Closed • Thursday 11.00-19.00 • Friday 09.30-17 .00 • Saturday 09.30-17 .00 • Sunday Closed

6 Station Road, Stanley, Co. Durham DH9 OJL

Tel: **01207 232545** • Email: **durhamtrainsofstanley@gmail.com**

www.durhamtrainsolstanley.co.uk

BACHMANN * HORNBY * FARISH * PECO * RATIO *WILLS *METCALFE *
MODELSCENE * GAUGEMASTER * FALLER
* BUSCH * NOCH * DAPOL * OXFORD *JAVIS

Aspire Gifts & Models

OPENING TIMES: Mon 2pm-5pm Tues, Wed, Thurs 10am-5pm

The Model Shop for Modellers, Run by a Modeller

Suppliers of all Major Railway Brands, We Chip, Service and Repair Engines.

Layouts built from Track to finnished Item.

THOSAND'S OF ITEMS AVAILABLE ON OUR WEBSITE CREDIT CARDS WELCOME

Come and see the progress on our new 30' x 30' OO Gauge layout
Unit 4. Court Farm Business Park, Buckland Newton.Dorset. DT2 7BT
Telephone: 01300 345355 email:edward.aspire@btinternet.com
Website: www.aspiregiftsandmodels.co.uk

* WOODLAND SCENICS * KNIGHTWING * SUPERQUICK * WILLS * BASE

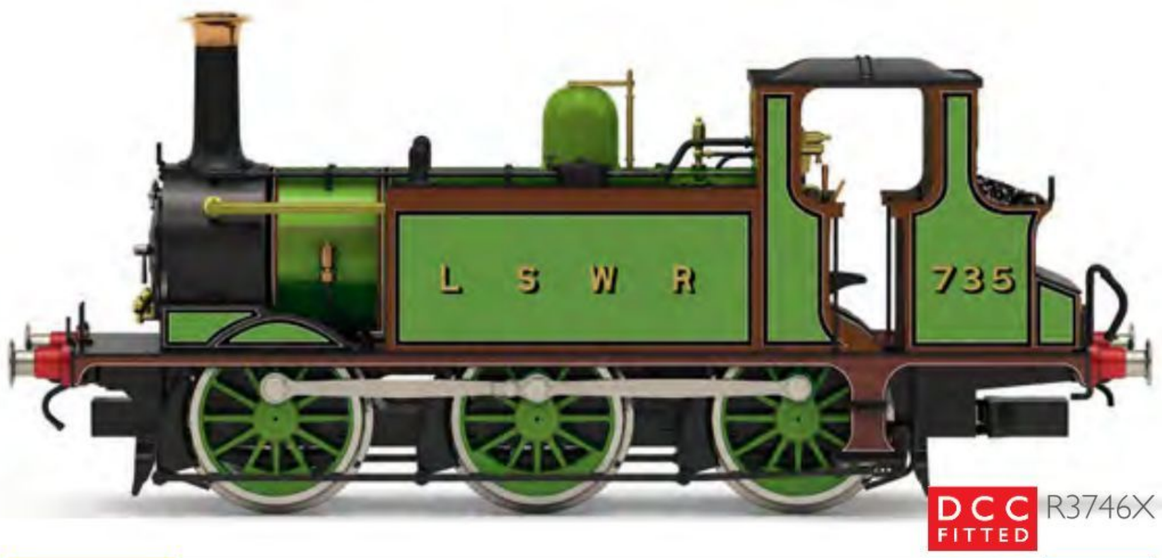
HORNBY®

www.hornby.com

TERRIER 0-6-0T Locomotives

DCC FITTED R3845X

R3845/X LB&SCR, 'Terrier', 0-6-0T, 40 'Brighton' - Era 2 DCC READY 6 PIN CONNECTION



DCC FITTED R3746X

R3846/X LSWR, 'Terrier', 0-6-0T, 735 - Era 2 DCC READY 6 PIN CONNECTION

DCC FITTED R3847X

R3847/X SR, 'Terrier', 0-6-0T, W14 'Bembridge' - Era 3 DCC READY 6 PIN CONNECTION

DCC FITTED R3848X

R3848/X Transitional BR, 'Terrier', 0-6-0T, 13 'Carisbrooke' - Era 4 DCC READY 6 PIN CONNECTION

For more information please visit your local Hornby stockist or go to:

www.hornby.com

www.facebook.com/officialhornby

www.twitter.com/hornby

www.instagram.com/officialhornby

www.youtube.com/hornbyhobbiesltd

HORNBY®

Retail Partners

CHESHIRE

- **CHESTER MODEL CENTRE**
  71-73 Bridge Street Row East,
  Chester, Cheshire CH1 1NW
  Telephone: **01244 400 930**
  Email: **shop@chestermodelcentre.com**
  Website: **www.chestermodelcentre.com**
  Open 7 days a week, Monday to Saturday 10-5pm and Sundays 11-4pm
- **HATTONS MODEL RAILWAYS**
  17 Montague Road, Widnes, Cheshire, WA8 8FZ
  Telephone: **0151 733 3655**
  Fax: **0151 423 5900**
  Email: **info@hattons.co.uk**
  Website: **www.hattons.co.uk**

COUNTY DURHAM

- **NORTH EAST MODEL CENTRE**
  The Old Chapel, Chester Moor,
  Chester le Street, Co Durham. DH2 3RJ
  Telephone: **0191 388 1128**
  Email: **nemodelcentre@gmail.com**
  Website: **www.northeastmodelcentre.co.uk**

CUMBRIA

- **JACKSONS MODELS & RAILWAYS**
  33 New Street, Wigton, Cumbria CA7 9AL
  Telephone: **01697 342557**
  Email: **info@jacksonsmodels.co.uk**
  Website: **www.jacksonsmodels.co.uk**

DERBYSHIRE

- **A2B MODEL RAILWAYS**
  30 North Parade, Matlock Bath, Derbys DE4 3NS
  Telephone: **07711 318489**
  Email: **kingston129@hotmail.co.uk**
  Website: **www.a2bmodelrailways.co.uk**

DEVON

- **SHADYLANE MODELS**
  11 Grenville Street, Bideford, N. Devon EX39 2EA
  Telephone: **01237 238872**
  Email: **shadylane@live.co.uk**
  Website: **www.shadylanemodels.co.uk**

EAST SUSSEX

- **THE BLUEBELL RAILWAY SHOP**
  Sheffield Park Station, East Sussex TN22 3QL
  Telephone: **01825 720800**
  Email: **info@bluebell-railway.co.uk**
  Website: **www.bluebell-railway.com**

HAMPSHIRE

- **A C MODELS**
  7/9 High Street, Eastleigh, Hants SO50 5LB
  Telephone: **02380 610100**
  eBay: **acmodels2** or **tracksidecars**
  Website: **www.acmodelseastleigh.co.uk**
- **ALTON MODEL CENTRE**
  7A Normandy Street, Alton, Hants GU34 1DD
  Telephone: **01420 542244**
  Email: **Sales@AltonModelCentre.co.uk**
  Website: **www.altonmodelcentre.co.uk**
- **RON LINES**
  342 Shirley Rd, Southampton, Hants SO15 3HJ
  Telephone: **0238 0772681**
  Email: **r.lines@hotmail.co.uk**
  Website: **www.ronlines.com**
- **WICOR MODELS**
  7 West Street, Portchester, Hants P016 9XB
  Telephone: **02392 351 160**
  Email: **mail@wicor-models.co.uk**
  Website: **www.wicormodels.com**

KENT

- **KENT GARDEN RAILWAYS**
  66 High Street, St Mary Cray, Orpington,
  Kent BR5 3NH
  Telephone: **01689 891668**
  Email: **sales@kgrmodels.com**
  Website: **www.kgrmodels.com**
- **THE HOBBY SHOP**
  85 Preston Street, Faversham, Kent ME13 8NU.
  Telephone: **01795 531666**
  Email: **info@hobb-e-mail.com**
  Website: **www.hobb-e-mail.com**
- **TURNERS MODELS**
  14 London Road, Dover, Kent, CT17 0ST
  Telephone: **01304 203711**
  Email: **t.s.modelsdover@talktalk.net**
  Website: **www.turnersmodelsdover.co.uk**

LONDON

- **JANES TRAINS**
  35 London Road, Tooting, London SW17 9JR
  Telephone: **020 8640 1569**
  Email: **janestrainsemail@aol.com**
  Website: **www.janestrains.co.uk**

MERSEYSIDE

- **HATTONS MODEL RAILWAYS**
  17 Montague Road, Widnes, Cheshire, WA8 8FZ
  Telephone: **0151 733 3655**
  Fax: **0151 423 5900**
  Email: **info@hattons.co.uk**
  Website: **www.hattons.co.uk**

NORFOLK

- **SMITHS MODEL RAILWAYS**
  10 Station Road, Sheringham, Norfolk NR26 8RE
  Telephone: **01263 478420**
  Email: **info@smithsmodelrailways.co.uk**
  Website: **www.smithsmodelrailways.co.uk**

NORTHAMPTONSHIRE

- **THE RAILWAY CONDUCTOR**
  Unit 2,The Old Dairy Farm, Shopping and Craft Centre Upper Stow, Northamptonshire, NN7 4SH
  Tel: **01604 830722**
  Mob: **07961 757094**

NORTH YORKSHIRE

- **PETERS SPARES MODEL RAILWAYS LTD**
  2J Brighouse Business Village, Riverside Park,
  Middlesbrough, Teesside TS2 1RT
  Tel: **01642 909794**
  Email: **sales@petersspares.com**
  Website: **www.petersspares.com**

NORTHUMBERLAND

- **J & J MODELS**
  Unit 8 Packhorse Buildings, 17 Newgate Street,
  Morpeth, Northumberland, NE16 1AW
  Telephone: **01670 503885**
  Email: **enquries@jandjmodels.co.uk**
  Website: **www.jandjmodels.co.uk**

SCOTLAND

- **HARBURN HOBBIES**
  67 Elm Row, Leith Walk, Edinburgh EH7 4AQ
  Telephone: **0131 556 3233**
  Email: **sales@harburnhobbies.co.uk**
  Website: **www.harburnhobbies.co.uk**
- **TIME TUNNEL MODELS**
  Unit 3, Fenton Barns Retail Village,
  North Berwick EH39 5BW
  Website: **www.timetunnelmodels.com**
- **UDDINGSTON MODEL CENTRE**
  161 Main St, Uddingston, Glasgow G71 7BP
  Telephone: **01698 813194**
  Email: **john@uddingstonmodelcentre.co.uk**
  Website: **www.uddingstonmodelcentre.com**

STAFFORDSHIRE

- **TOPP TRAINS LLP**
  28 Marston Road, Stafford, Staffs ST16 3BS
  Telephone: **01785 247883**
  Email: **toppstrains@gmail.com**
  Website: **www.topptrains.co.uk**

SUFFOLK

- **MODEL JUNCTION**
  10 Whiting St, Bury St. Edmunds,
  Suffolk IP33 1NX
  Telephone: **01284 753456**
  Email: **modeljunction@hotmail.co.uk**
  Website: **www.modeljunction.com**

TYNE & WEAR

- **POOLEYS PUFFERS**
  382a Jedburgh Court, Eleventh Avenue,
  Team Valley Trading Estate, Gateshead,
  Tyne & Wear NE11 0BQ
  Telephone: **0191 491 0202**
  Email: **pooleyspuffers@btopenworld.com**
  Website: **www.pooleyspuffers.com**

WALES

- **KDC HOBBIES**
  50 Saron Road, Capel Hendre, Saron,
  Ammanford, Carmarthenshire, SA18 3LG
  Telephone: **01269 831332/07746691416**
  Email: **kdchobbies@aol.com**
  Website: **www.kdchobbies.co.uk**
- **PLAZA TOYMASTER**
  Unit 12, Pound Field, Llantwit Major, CF61 1DL
  Telephone: **01446 794118**
  Email: **Toymaster@filco.co.uk**
  Facebook: **Plazatoymaster2**
- **TRAINSTOP**
  10 High Street Knighton Powys LD7 1AT
  Telephone: **01547 520673**
  Email: **sales@trainstop.co.uk**
  Website: **www.trainstop.co.uk**

WARWICKSHIRE

- **TONY'S TRAINS OF RUGBY**
  Studio 4, The Locks, Hillmorton,
  Rugby CV21 4PP
  Telephone: **01788 543442**
  Email: **tonystrains@outlook.com**
  Website: **www.tonystrainsofrugby.com**

WEST SUSSEX

- **GAUGEMASTER CONTROLS LTD**
  Gaugemaster House, Ford Road, Arundel,
  West Sussex, BN18 0BN,
  Telephone: **01903 884488**
  Website: **www.gaugemaster.com**
- **MORRIS MODELS**
  80 Manor Rd, North Lancing, West Sussex,
  BN15 0HD
  Telephone: **01903 754850**
  Email: **info@morrismodels.co.uk**
  Website: **www.morris-models.co.uk**

WEST YORKSHIRE

- **FRIZINGHALL MODELS & RAILWAYS**
  Unit 8A, Sapper Jordan Rossi Park, Otley Road,
  Baildon, West Yorkshire BD17 7AX
  Telephone: **01274 747447**
  Email: **shop@fmrdirect.co.uk**
  Website: **www.modelrailshop.co.uk**

To advertise your details here please contact:

- **ALISON CHATER** Email: **alison.chater@keypublishing.com**
- **ASHLEY SMALLEY** Email: **ashley.smalley@keypublishing.com**

CALL: **01780 755131**

To see the full list of all Hornby stockists visit **www.Hornby.com/stockists**

ACCESSORIES

Skytrex Model Railways
Unit 1 Charnwood Business Park, North Rd, Loughborough, Leics LE11 1LE
tel: 01509 213789
For OO Gauge
www.skytrexmodelrailways.com
For O Gauge
www.ogauge.co.uk
Free subscription to newsletters! Details on websites

P & D Marsh
Whitemetal kits, hand painted models and laser cut wooden structures in N & 00.
Painted signals available in N and 00.
Free price list available.
48 Elm High Road, Wisbech PE14 0DQ
Tel: 07730 202270
www.pdmarshmodels.com

BOOKS

Relocated to new premises in Matlock where we will be continuing our online business
BILL HUDSON TRANSPORT BOOKS
FAMILY RUN BUSINESS SELLING NEW & SECONDHAND RAILWAY TITLES
To view our stock please call or email in advance
www.billhudsontransportbooks.co.uk
Call: 07921 833469

NICK TOZER RAILWAY BOOKS
RAILWAY BOOKS BOUGHT & SOLD
Free Railway Booksearch Service
155 Church Street, Paddock, Huddersfield, HD1 4UJ
SHOP: Tue/Wed 11:00-17-00 + Thur 14:00-20-00
www.railwaybook.com nick@railwaybook.com
Tel: 01484 518159

Railways Buses Aviation Canals
DEREK'S TRANSPORT BOOKS
All Transport Subjects Covered
www.derekstransportbooks.com
Over 8000 Books in Stock on-line
Based in the New Forest
Est. 1995
Shipping Commercial Motoring Vehicles

CONTROLS/UNITS

DO YOUR TRAINS SLOW DOWN ON GRADIENTS & CURVES?
Try an analogue N/OO controller with feedback from TRAX CONTROLS.....
No more jackrabbit starts! The FC-1 walkabout controller is equally suitable for heavy locos such as Dublo and Wrenn, and modern models (Farish, Lima, etc.) 14 to 18V ac input, 0-12V dc output.

£33.95 + £4 UK p/p. See our web site www.traxcontrols.com/shop or S.A.E. details:
Trax Controls, 112 Sprowston Rd., Norwich, NR3 4QH

DCC CONVERSIONS

Mark's Trains
Est. 2016
A RENOWNED SPECIALIST DCC CONVERSION SERVICE
WE'RE STILL OPEN!
• All scales and budgets • Friendly, reliable service
• Quick turn-around • Servicing and repairs • Weathering
• Resprays • Kit building service • Zimo, ESU & Lenz dealer
www.marks-trains.co.uk
Contact Mark: 01733 609 414 / 07515 436 396
Email: info@marks-trains.co.uk marks.trains.uk

DISPLAY/LAYOUTS

Platform 3 Models
Layouts designed and built From N to Garden railways based in the south west
All loco Servicing & Repairs and DCC decoder installation for N & OO
Contact Tom Hussey
Tel: 07811 903231
Email: platform3models@hotmail.co.uk
Web: platform3models.co.uk

Layout Building - Custom Buildings
Bespoke Baseboards - Scenery
www.modellayoutservices.co.uk
Tel: 01337 830007

Check out our DEALER DIRECTORY LISTINGS on page 157

HARDWARE & FIXTURES

ALWAYS IN STOCK:
Huge range of miniature fasteners, including self tappers from No 0 Gauge.
ModelFixings.co.uk
also the home of ModelBearings.co.uk
• Taps, Dies & Drills • Circlips
• Miniature Bearings • E-Clips
• Adhesives & Tools • Starlocks
EST. 2003 Fast mail order service
Tel: +44 (0)115 854 8791 • Email: info@modelfixings.com

KITS/COMPONENTS

SHAWPLAN
EXTREME ETCHINGS
2 Upper Dunstead Road
Langley Mill Nottingham
NG16 4GR
email: brian@shawplan.com
Specialist suppliers of the finest quality nameplaces and detailing components for the Diesel and Electric era in 2, 4 and 7mm scales.
01773 718648
www.shawplan.com

- 0 Gauge Kits -
CONNOISSEUR MODELS
- Quality Etched & Cast Metal Kits -
- Locos, Carriages & Wagons -
www.jimmcgeown.com
or Send S.A.E. For Printed Catalogue
1 Newton Cottages, Nr Weobley, HR4 8QX

BRANCHLINES
Mashima, Hanazono, Canon motors.
Gears, gearboxes, bearings, drive shafts, wheels, crankpins, etc.
Black Beetle wheels, Tenshodo motor bogies

4mm loco and chassis kits and detailing parts and accessories.
4 and 7mm narrow gauge loco, coach and wagon kits, chopper couplings

4mm etched coach and PBV kits (MR/LMS, LBSCR,SECR,SR,TVR)
7mm Ford T Railbus, coach kits.
P.O. BOX 4293, WESTBURY, BA13 9AA
Tel/Fax: 01373 822231
E-mail: sales@branchlines.com
Catalogues: e-mail or SSAE + £1 in stamps or £2.50 C/card and PLEASE STATE INTERESTS

Severn Models
Fine Kits of Buildings & Miniature Detailing

Kits for N, OO & O layouts
Severn Models, PO Box 785,Broseley, TF7 9FT.
www.SevernModels.com

MANUFACTURERS

Golden Arrow Productions
Call: 01424 445334
www.goldenarrow.me.uk
MANUFACTURER OF MODEL RAILWAY KITS TO SUIT ALL SKILL LEVELS
'OO' gauge resin loco bodies designed with the beginner in mind and we also have all-metal & composite kits for the more experienced.
We provide our well-respected model making service - anything you desire can be professionally constructed & finished to your specification. See website for more details.

MODEL RAILWAYS

-WANTED-
YOUR SECONDHAND MODEL RAILWAYS
Cash paid for any quality mint boxed OO gauge single items to your lifetime collection.
Hornby. Bachmann. Trains. Coaches. Wagons.
Email-lesdavis56@yahoo.co.uk
Or call 07909005931

MODEL SHOPS

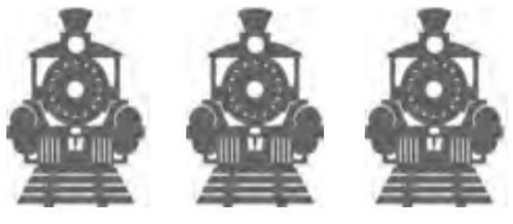
Visiting the Isle of Wight?
Two floors of locomotives, wagons, coaches, buildings, scenery, electrics, figures, cars and more!
N/009/H0/00/On30/G
UPSTAIRS DOWNSTAIRS
Pier Street - Sandown - PO36 8JR
01983 406 616 - www.udiow.com

ORWELL MODEL RAILWAYS
Ipswich Model Railway Centre
48-52 Tomline Road, Ipswich IP3 8DB
CALL: 01473 724578
OPEN
• Monday-Friday - 10:00 - 16:00
• Wednesday - 10:00 - 18:00
• Saturday - 10:00 - 17:00
Visit our website at...
www.orwellmodelrailways.co.uk

MODEL JUNCTION
The Best Model Shop In Suffolk
Peco
Hornby
Bachmann
Gaugemaster
Metcalfe Models
And So Much More

Whiting St. Bury St. Edmunds IP33 1NX
www.modeljunction.com
Open Mon - Sat 9.00 - 5.00 01284 753456

RECREATION21 OO,HO,TT And more..
3D PRINTED MODELS
LOCOS
COACHES
WAGONS
BUILDINGS
INSET TRACK
and more....
LMS ARP Signal Box
ORDER ONLINE
www.rue-d-etropal.com



Crafty Hobbies
South Cumbria's number one shop for model railways, crafts, and doll's houses.

www.craftyhobbies.co.uk
54 Cavendish Street,
Barrow-in-Furness,
T: 01229 820759

MODEL SHOPS

THE RAILWAY SHOP
33 Broad Street, Blaenavon, Torfaen NP4 9NF
01495 792263
Bachmann - Hornby - Peco - Dapol - Wills
Ratio - Gaugemaster - Kadee - Metcalfe - Heljan
all at discount prices Mail order welcome
NEW • NEW • NEW
Basil Jayne - 7 Plank Wagon
£10.25 + £2.85 p&p
NEW • NEW • NEW
Open Weekdays: 10.30 - 5.00 • Sat. 10.30 - 4.00
Profits support the Pontypool & Blaenavon Railway

RMH Redcar Models & Hobbies
Redcar Models & Hobbies,
130 High Street,
Redcar, Cleveland
Stocking a wide range of 'OO' railways by Bachmann, Hornby, Peco and Gaugemaster
Tel: 01642 494 912
sales@redcarmodels.co.uk

Millennium Models
Hornby, Bachmann, Peco & Gaugemaster
New and Secondhand Stock
Javis, Dapol, Metcalfe, Corgi & Oxford
67 Queen Street, Morley, Leeds
LS27 8EB • Tel: 0113 2189 286
www.millenniummodels.co.uk

THE MODEL SHOP
Specialist Model Railway Stockist
4 St David's Hill, Exeter EX4 3RG
(just off the old Iron Bridge)
www.trainsandtrack.co.uk
Tel: 01392 421906
Shop Open: Tue/Sat 10am-5pm
Closing down sale starts 1st July

THEHOBBYGOBLIN
STOKE-ON-TRENT
54 Hamil Road, Burslem ST6 1AU
Bachmann, Farish, Scenecraft, Woodland Scenics,
Hornby, PECO, Dapol, Gaugemaster,
Lenz, Metcalfe and much more!
T: 01782 818433
e: thehobbygoblin-uk@hotmail.com
www.thehobbygoblin.co.uk

To advertise please contact
ALISON CHATER or
ASHLEY SMALLEY
01780 755131

Howard Scenic Supplies
See our range of hand made model scenery

www.howardscenicsupplies.co.uk

Trains4U.com
27 St. David's Square, Fengate, Peterborough, PE1 5QA
Open Tues-Fri 9:30-5:00, Sat 9:00-5:00, Sunday 10:30–3:30, closed Monday
Huge range of Models in N, OO & O. Scenic materials, Glues, Paints, Tools & more...
If you can't find what you are looking for on our website, give us a call

Tel: 01733 895989 e-mail: Trains4U@BTConnect.com

TRIDENT TRAINS
www.tridenttrains.co.uk
01270 842 400
No10, The Craft Arcade, Dagfields Craft Centre
Crewe Road, Walgherton, Nantwich,
Cheshire. CW5 7LG
We stock
HORNBY-BACHMANN-GRAHAM FARISH-DAPOL OO & N
PECO-RATIO-WILLS-RAILMATCH PAINTS-HUMBROL
PLASTRUCT-JAVIS-WOODLAND SCENIC-OXFORD DIECAST
METCALFE OO & N-SUPERQUICK-TCS DECODERS-LENZ DCC
GAUGEMASTER-TRACKSETTA 00 & N + MUCH MORE.
WEDNESDAY – SUNDAY 10.00 TIL 5.00

hpi:racing OptiFUEL SCALEXTRIC Revell HORNBY BACHMANN ECO DAPOL
MON-SAT 9.00- 5.30
THE MODEL SHOP
OPEN SUNDAYS 10.00- 2.00
VISIT US FOR ALL YOUR MODELLING REQUIREMENTS
65 Kingston Road, Portsmouth PO2 7DX
Tel No. 02392 738111
Email. modelshop117@gmail.com

CAMBRIAN 4mm Wagon Kits
Over 100 kits available spanning pre grouping to the 1990's. Postage from £1.50.

16mm (1:19) Narrow Gauge Components are also available. Send C5 SAE for either list.
cambrianmodelrail.co.uk 01322 515672 2pm-4pm
cmr@cambrianmodelrail.co.uk PO Box 85, Greenhithe, Kent. DA10 9DN

RON LINES
LARGE STOCKS OF PRE-OWNED RAILWAYS, A SELECTION OF WHICH IS ON OUR WEBSITE.
We stock new Hornby, Bachmann, Graham Farish, PECO, Expo Tools, Electrical components & much more!
We also purchase your unwanted railways, whether it's a single item or collection - anything considered.
Whether you're a novice or an expert we are always happy to help! So why not visit us today or give us a ring!
Tel: 02380 772 681 www.ronlines.com
342 Shirley Road, Southampton, SO15 3HJ
Open: Mon to Fri 10am-5pm & Sat 9am-4pm

PAIGNTON MODEL SHOP
Stockist of:
Hornby, Bachmann, Peco,
Woodland Scenics, Metcalfe,
Superquick, Airfix, Scalextric, Ratio,
Wills & Scenerama
N Gauge stockist for Farish
Loco Weathering Service Available
60 Hyde Road, Paignton,
Devon TQ4 5BY
Tel: 01803 555882
Email:
paigntonmodels@hotmail.co.uk
Website:
www.paigntonmodelshop.com

Topp Trains
NEW
Shop for model railway enthusiasts
OPEN NOW
Free Parking
Wide range of stock from all your favourite suppliers, PLUS weathering, repairs and servicing..
Call us for details
28 Marston Road, Stafford, ST16 3BS
Tel: 01785 247883

A C Models
Tel: 02380 610100 www.acmodelseastleigh.co.uk
We have now expanded to number 9 High Street
and our Spares Department & Games Workshop at number 7 is now open
Visit us at www.acmodelsspares.co.uk.
New R/C Dept now open
Your one stop shop for the model enthusiast, selling brand new and near new model trains, slotcars, sets, and diecast toys at very special prices direct from our website or our shop in Eastleigh.
Stockists of
SCALEXTRIC HORNBY PECO AIRFIX BACHMANN Spectrum
and much more
VISA PayPal
7/9 High Street, Eastleigh, Hants SO50 5LF
email: info@acmodelseastleigh.co.uk Closed Weds, Sun.

AGR MODEL RAILWAY STORE
NOW buying your unwanted model railway collections
NOW STOCKING A WIDE SELECTION OF PRE-OWNED MODEL & NEW RAILWAY COLLECTIONS ONLINE & INSTORE
www.agrmodelrailwaystore.co.uk
Monday – Friday 9am-5pm Saturday 9am-4pm
AGR Model Railway Store
9 High Street Mews,
28 High Street,
Leighton Buzzard
Bedfordshire, LU7 1EA
01525 854788
sales@agrmodelrailwaystore.co.uk

MODEL SHOPS

JOHN DUTFIELD LLP
CALL: 01245 494455
E: heatherwilkinson@btconnect.com
Wards Yard | 133 Springfield Park Road | Chelmsford | Essex | CM2 6EE
www.johndutfieldmodelrailways.co.uk
• PECO • HORNBY • BACHMANN • FARISH • DAPOL
• HELJAN • CAVALEX • ACCURASCALE • EXPO
plus many other Brands. Secondhand bought and sold.
OPEN: 9am-5.30pm
CLOSED: Weds, Sun & Bank holidays

mike's models
- THE MODELLERS MODEL SHOP -
Contact us on:
3-5 Brockwell Rd, Birmingham B44 9PF
01213 604 521
Email: info@mikes-models.co.uk
www.mikes-models.co.uk
Over 11,000 products in stock covering all aspects of model making.
Great after sales support.
From ready to go train sets to materials for your layout or anything in between.

Maestro PayPal VISA MasterCard
Tel: 01933 355531
Mobile: 07969 535 699
H&A MODELS
19 Keats Way, Higham Ferrers, Northants. NN10 8DQ
Email:sales@hamodels.net
Coach & Wagon Kits, Wheels, Decals, Wagon Loads, Paint & Sundries
Parkside Models, Dundas Models, Cambrian, Slaters, Ian Kirk, Red Panda, Dapol, Kadee, Ratio, Peco, Precision Paint, Modelmaster, Old Time Workshop, Labelle Oils, Alan Gibson, Romford, Seuthe, Smiths, Carr's
SLATERS 4MM WAGON KITS NOW IN STOCK – RED PANDA EXCLUSIVELY AVAILABLE FROM US
Order on line at: www.hamodels.net or ring us (same day or next day despatch)
Precision Paint & Carrs now available to purchase on Line and Mail Order
Due to the current Government Health recommendations check our website for Exhibition updates

LORD AND BUTLER CARDIFF
2000 sq ft model railway showroom CAFE & FREE PARKING
LORD AND BUTLER RAIL CENTRE
The Old Warehouse The Pumping Station
Penarth Rd Cardiff CF11 8TT
OPEN Mon - Sat 10-5.30 Sunday CLOSED
029 2066 7225 info@lordandbutler.com lordandbutler.com

NAMEPLATES / ETCHINGS

247 DEVELOPMENTS
For your 2mm & 4mm Loco plates &
4mm Loco detailing parts & Coach Bogies
247 Developments, 1 Pen Y Banc,
Seven Sisters, Neath, SA10 9AB
01639 701583
Email; info@247developments.co.uk
Web Site 247developments.co.uk

SEPT ISSUE

Copy Deadline:
17th July
On-Sale: 6th August

ONLINE MODEL SHOP

RAILWAYSCENICS
14 Woodsage Drive, Gillingham, Dorset SP8 4UF
Secure online ordering: 01747 826269
Email: sales@railwayscenics.com
ONLINE MODEL SHOP SUPPLYING A WIDE RANGE OF TOOLS AND COMPONENTS.
See website for more details.
www.railwayscenics.com

Check out our
DEALER DIRECTORY LISTINGS on page 157

THE ORIGINAL DCC FITTING SERVICE

THE ORIGINAL DCC FITTING SERVICE
Wickness Models
• DCC Fitting Service
• All Gauges
• DCC Products
• Layout Accessories
• DCC Sound Decoders
www.wicknessmodels.co.uk • Call Douglas on: 07506 689978

TOOLS

3CP - Track Curve Plotting Tool
Unique, precise, easy to use, great way to plot and form realistic track routes.
Website: www.3cp-tools.co.uk
Email: info@3cp-tools.co.uk
Tel: 01606 889610
Mob: 07743 426393
3CP

To advertise please contact

ALISON CHATER or
ASHLEY SMALLEY

01780 755131

WANTED

Tri-angman
Specialist in Model Railway
Tri-ang, Hornby, Bachmann, Wrenn, Minic, etc
BUY & SELL HARD TO FIND ITEMS & COLLECTABLES
Find me on www.tri-angman.co.uk
Tel: 07966 333605 Email: laurence@tri-angman.co.uk

BE WISE
WHEN YOU ADVERTISE

Everyone wants to get what they paid for. Hornby Magazine is independently verified by ABC, because we want our advertisers to know they're getting the exposure they've been promised.

ABC. See it. Believe it. Trust it.

HORNBY magazine
abc
www.abc.org.uk

KEY Books

MAIL ORDER

248/20

LOCO-HAULED PASSENGER TRAINS

British Railways Series, Volume 1

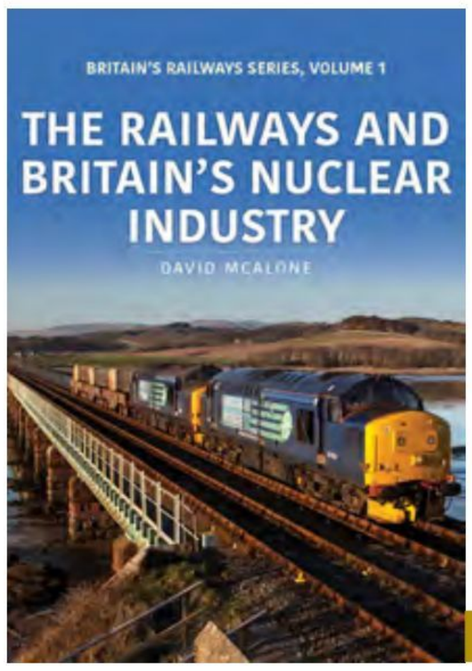
A richly illustrated portrait of locomotive-hauled trains over four decades, from the 1980s to the present day.

Softback, 96 pages.

Subscribers call for your £2 discount

ONLY £14.99 Code: B689

THE RAILWAYS AND BRITAIN'S NUCLEAR INDUSTRY



The Railways and Industry Series, Volume 1

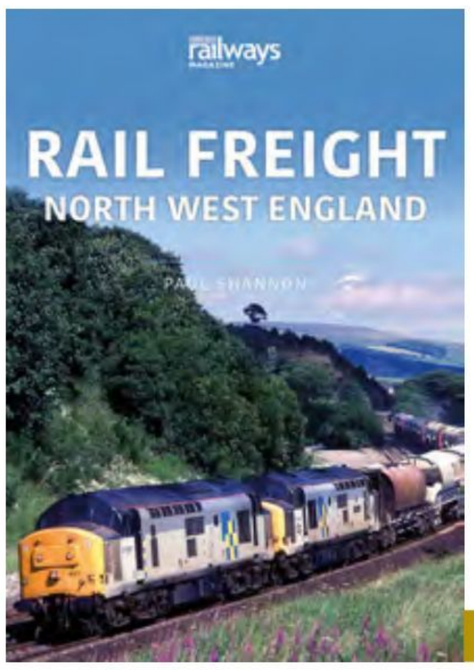
The creation of Britain's most diverse railway company, Direct Rail Services.

Softback, 96 pages

Subscribers call for your £2 discount

ONLY £14.99 Code: B681

RAIL FREIGHT NORTH WEST ENGLAND



The Railways and Industry Series, Volume 3

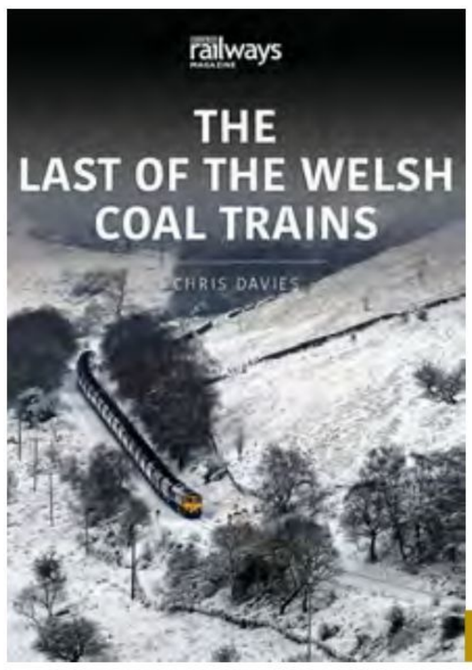
A highly illustrated portrait of rail freight in a major industrial region over the last 40 years.

Softback, 96 pages.

Subscribers call for your £2 discount

ONLY £14.99 Code: B690

THE LAST OF THE WELSH COAL TRAINS



The Railways and Industry Series, Volume 2

A visually striking portrait of the last trains to haul coal from the South Wales mines.

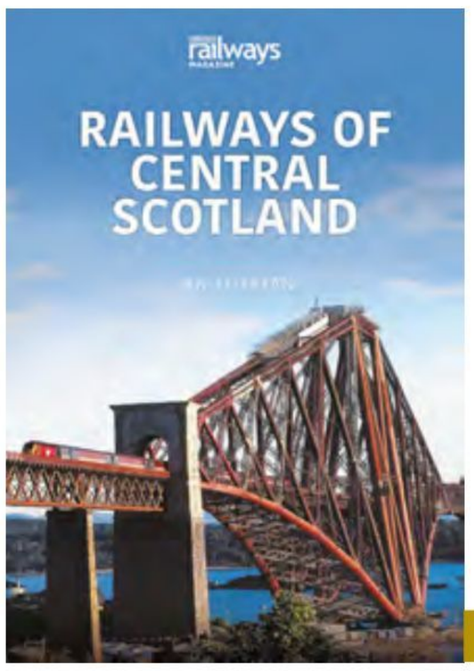
Softback, 96 pages.

Subscribers call for your £2 discount

ONLY £14.99 Code: B691

▪ Delivery from 29 June 2020 ▪

RAILWAYS OF CENTRAL SCOTLAND



Britain's Railways Series, Volume 2

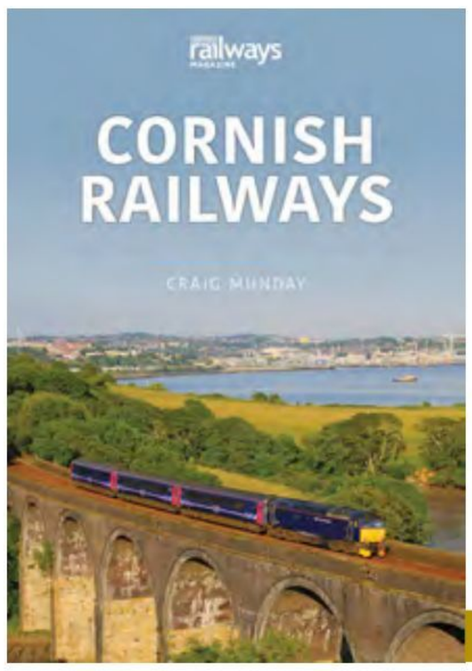
A unique portrait of the main lines of Central Scotland.

Softback, 96 pages.

Subscribers call for your £2 discount

ONLY £14.99 Code: B692

CORNISH RAILWAYS



Britain's Railways Series, Volume 3

A portrait of the main line and branch lines through the changing landscapes from Saltash to St Austell.

Softback, 96 pages.

Subscribers call for your £2 discount

ONLY £14.99 Code: B693

▪ Delivery from 6 July 2020 ▪

TO VIEW OUR FULL RANGE OF BOOKS, VISIT OUR SHOP

shop.keypublishing.com/books

Or call UK: 01780 480404 - overseas: +44 1780 480404

Monday to Friday 9am-5:30pm GMT. Free 2nd class P&P on all UK & BFPO orders. Overseas charges apply.
All publication dates subject to change

NEXT ISSUE

FENNY STRATFORD

The Buckinghamshire through station of Fenny Stratford was close to home for David Court and Peter Ellis and provided the perfect modelling opportunity for a new joint exhibition layout project. Built to 'OO' gauge, this fabulous model was three years in the making. Discover its full story next month.

FREE SUPPLEMENT!

The second of *Hornby Magazine's* 32-page modelling guides focuses on BR's Southern Region between 1948 and the end of steam in 1967. Don't miss our essential reference to enhance your layout with period correct rolling stock, detailing and more.

PLUS

- The latest reviews
- Exclusive competition
- Railway history
- Staff Projects
- The latest news
- Step by step guides
- Inspirational layouts
- Sound installations
- Event listings

CLASS 59 DETAILING

The Class 59 is back in the spotlight with the recent change of operators for the fleet of 15 3,300hp heavy freight diesels. Next issue we take a closer look at the Hornby model and show how simple detail enhancements and sympathetic weathering can breathe new life into the former Lima 'OO' gauge product.

GRAVESDOWN SOUTH

Brian Tamplin took the concept of a modular layout to create a scene which could be operated independently or connected to others. Gravesdown South is the result, which recalls the BR blue era on the Western Region in the 1970s and 1980s. Join us for a full tour of this compact terminus next issue.

THE NEXT ISSUE OF HORNBY magazine is on sale August 6 2020

DON'T MISS IT!

dapol

model railway company

For the most up to date Dapol news & information visit

www.dapol.co.uk

Dapol Limited, Gledrid Industrial Park, Chirk, Wrexham, LL14 5DG

Coming soon...

Class 121 & 122

7D-009-001 - Class 121 W55020 BR Green Speed Whiskers
7D-009-002 - Class 121 W55027 BR Green SYP
7D-009-003 - Class 121 W55029 BR Blue/Grey
7D-009-004 - Class 121 W55023 BR Blue
7D-009-005 - Class 121 W55020 GWR 150 Chocolate and Cream

7D-015-001 - Class 122 55002 BR Blue Grey
7D-015-002 - Class 122 55000 BR Green SYP
7D-015-003 - Class 122 55012 Regional Railways
7D-015-004 - Class 122 55006 BR Blue
7D-015-005 - Class 122 55004 BR Green Speed Whiskers

Decorated Sample Sown For Illustration Only

Heavy Diecast Chassis
Dual Motorised Power Bogies With All Wheel Pickup
Easy to access DCC fitting
Factory Installed Multi Speaker Sound Fitted Option Avalible

Class 122 Delivery Expected Mid-End Q3 2020, Class 121 Delivery Expected 6-8 weeks later

Visit www.dapol.co.uk to see full specification

Imperium Decoder | 21 PIN DCC | R | ERA 5-10 | O Gauge

Wainwright D Class

Provisional Artwork Sown For Illustration Only

In Partnership with RAILS LOCOMOTION MODELS

Visit www.dapol.co.uk to pre-order now

Turbot Bogie Ballast Wagon

7F-043-001 - Turbot Bogie Ballast Wagon EWS Maroon DB978363
7F-043-002 - Turbot Bogie Ballast Wagon EWS Maroon DB978396
7F-043-003 - Turbot Bogie Ballast Wagon EWS Maroon DB978309
7F-043-004 - Turbot Bogie Ballast Wagon Eng. Dutch Livery DB978337
7F-043-005 - Turbot Bogie Ballast Wagon Eng. Dutch Livery DB978407
7F-043-006 - Turbot Bogie Ballast Wagon Eng. Dutch Livery DB978702

Class 43 HST

2D-019-010 Class 43 HST Intercity 125 Blue/Grey W43015 & W43190
2D-019-011 Class 43 HST FGW `Fag Packet' 43005 43009
2D-019-012 Class 43 HST EMR Ex LNER Ex VEC 43251 43295

2D-019-201 Class 43 HST I/City Exec Twin Pack W43131 & W43128
2D-019-202 Class 43 HST I/City Swallow Twin Pack W43041 & W43166

Product Scale Key—All Release Dates
Correct at time of going to press

O Gauge | OO Gauge | N Gauge

dapol collectors club

15% DISCOUNT ON ALL DAPOL PRODUCTS PURCHASED THROUGH DAPOL

ANNUAL OPEN DAY

4 NEWSLETTERS PER YEAR

ONLY £25 PER YEAR (Plus p&p)

IN GAUGES 'N' 'OO' & 'O'

FOR MORE INFORMATION CONTACT ANDREA / NEIL ON 01691 774455 OPTION 1 OR EMAIL club@dapol.co.uk

SPECIAL COMMISSION WAGONS

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

GAUGEMASTER
Scenic Trees & Hedges

GM120
Deciduous Trees (25)
9cm to 15cm tall
£26.00

GM121
Mixed Trees (25)
9cm to 15cm tall
£26.00

GM122
Fir Trees (25)
9cm to 15cm tall
£26.00

GM124
Spring Trees (25)
9cm to 15cm tall
£26.00

GM125
Spruce Trees (25)
9cm to 15cm tall
£26.00

GM128
Spring Trees (10)
8cm tall
£12.95

GM129
Summer Trees (10)
8cm tall
£12.95

GM220
Deciduous Trees (10)
10cm 14cm tall
£19.75

GM221
Mixed Trees (10)
10cm to 14cm tall
£12.95

GM260
Deciduous Trees (10)
4cm - 5cm tall
£9.25

GM180
Plum Trees (3)
8cm tall
£9.25

GM181
Plum Trees in Blossom (3)
8cm tall
£9.25

GM182
Fruit Trees (3)
8cm tall
£9.25

GM183
Apple Trees (3)
8cm tall
£9.25

GM184
Birch Trees (3)
8cm tall
£9.25

GM185
Weeping Willow (3)
8cm tall
£9.25

GM186
Poplar Trees (3)
8cm tall
£9.25

GM187
Pine Trees (3)
8cm tall
£10.25

GM188
Beech Trees (2)
12cm tall
£9.25

GM179
Forest Floor Static Grass (30g)
£4.50

GM179
Forest Floor Static Grass (30g)
£4.50

GM195
Seafoam Tree Making Set
£20.00

This starter set enables you to create trees and bushes with a realistic appearance.
Seafoam is a natural product which can be 'planted' straight from the box if you wish, but adding scatter material with spray adhesive is well worth the effort.

GM160
Light Green Hedgerow (2x500mm)
£9.00

GM161
Dark Green Hedgerow (2x500mm)
£9.00

GM156 Light Green Scenic Leaves (50g)
£5.25

GM157 Mid Green Scenic Leaves (50g)
£5.25

GM158 Dark Green Scenic Leaves (50g)
£5.25

GM162
Green Grass Tufts Mini 6mm (42)
£6.25

GM163
Green Grass Tufts Mini 12mm (42)
£6.25

GM360
Gaugemaster Catalogue
£5.00
128 Full Colour Pages
Full Gaugemaster Range listings and images, articles and guides.

GM194
Scenic Starter Set
£25.00
The perfect way to begin scenic modelling - this pack contains a small selection of trees, flocks, scatters, ballast, glue, a scenic mat, and a puffer bottle.
Everything you need to get started in one convenient pack! Add to your layout, or just use this pack to practice skills.

GM164
Light Green Lichen (80g)
£6.25

GM165
Dark Green Lichen (80g)
£6.25

GM166
Assorted Lichen (80g)
£6.25

Find us on Facebook: **@Gaugemaster**

Follow us on Twitter: **@Gaugemaster**

Follow us on Instagram: **@gaugemaster_controls**

GAUGEMASTER products are available from your local model shop or, in case of difficulty, direct from ourselves

GAUGEMASTER Controls Ltd, Ford Road, Arundel, West Sussex, BN18 0BN, United Kingdom
tel - 01903 884488 fax - 01903 884377 email - sales@gaugemaster.com

www.gaugemaster.com