

MODEL RAIL

BRITAIN'S BEST-VALUE MODELLING MAGAZINE

Become a master weatherer

12 pages of advice and inspiration for making
your trains look even more realistic

PLUS

- ◆ Troubleshooting guide to painting and weathering
- ◆ Ultimate guide to BR liveries - and what paint you need to buy
- ◆ Strip & repaint a locomotive

EXCLUSIVE

*Our Class 48
is go!*

See p8

DISCOVER

BR's strangest
shunter... and
how to model it

Workbench

Practical modelling projects from our experts



- ◆ Easy ways to make your own trees
- ◆ Make an inexpensive level crossing

REVIEWED

EFE RAIL'S CLASS 17 & 'AUSTERITY' 0-6-0ST



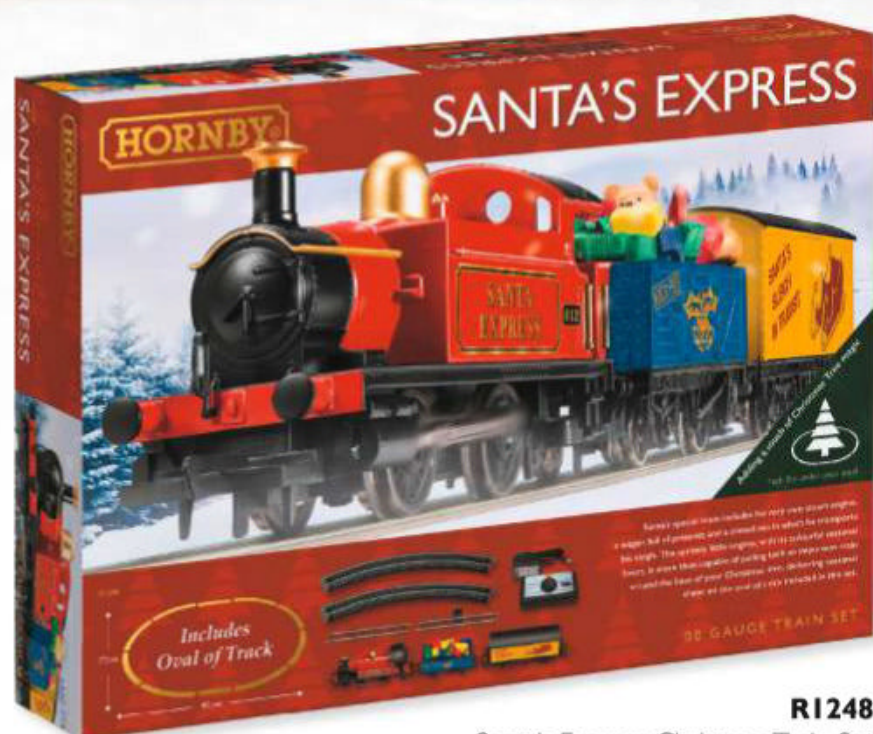
OXFORD RAIL 12T TANK WAGON



HORNBY®

The Ideal Christmas Set

Visit
www.hornby.com
to find your nearest
retailer or call
01843 233512
to place your
order today



R1248

Santa's Express Christmas Train Set

Add a sprinkle of Hornby magic to your Christmas with this special **Santa's Express Train Set**

Celebrate Christmas this year with your very own Santa's Express Train Set, ideal for running around the bottom of any Christmas tree. The set includes Santa's very own steam engine, a wagon full of presents and a closed van in which he keeps his sleigh. The sprightly little engine in its seasonal livery is sure to bring festive cheer to any room this Christmas.



www.facebook.com/officialhornby



www.twitter.com/hornby



www.instagram.com/officialhornby



www.youtube.com/hornbyhobbiesltd

Welcome



www.facebook.com/modelrail
www.twitter.com/modelrailuk

MODEL RAIL

brought to you by



Richard Foster

It's only taken seven months or so but we've finally created a home office - complete with a dinosaur lampshade!



George Dent

George is on the move again. Coincidentally, his new house shares the same altitude as Dent station!



Chris Leigh

Have had the big shed insulated so 'The Railway Children' can go back outside, hopefully without suffering.



Chris Gadsby

The first major renovation in my house has taken place this month, and now I've got a new shower room!



Chris Nevard

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



Peter Marriott

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



Dave Lowery

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



Paul A. Lunn

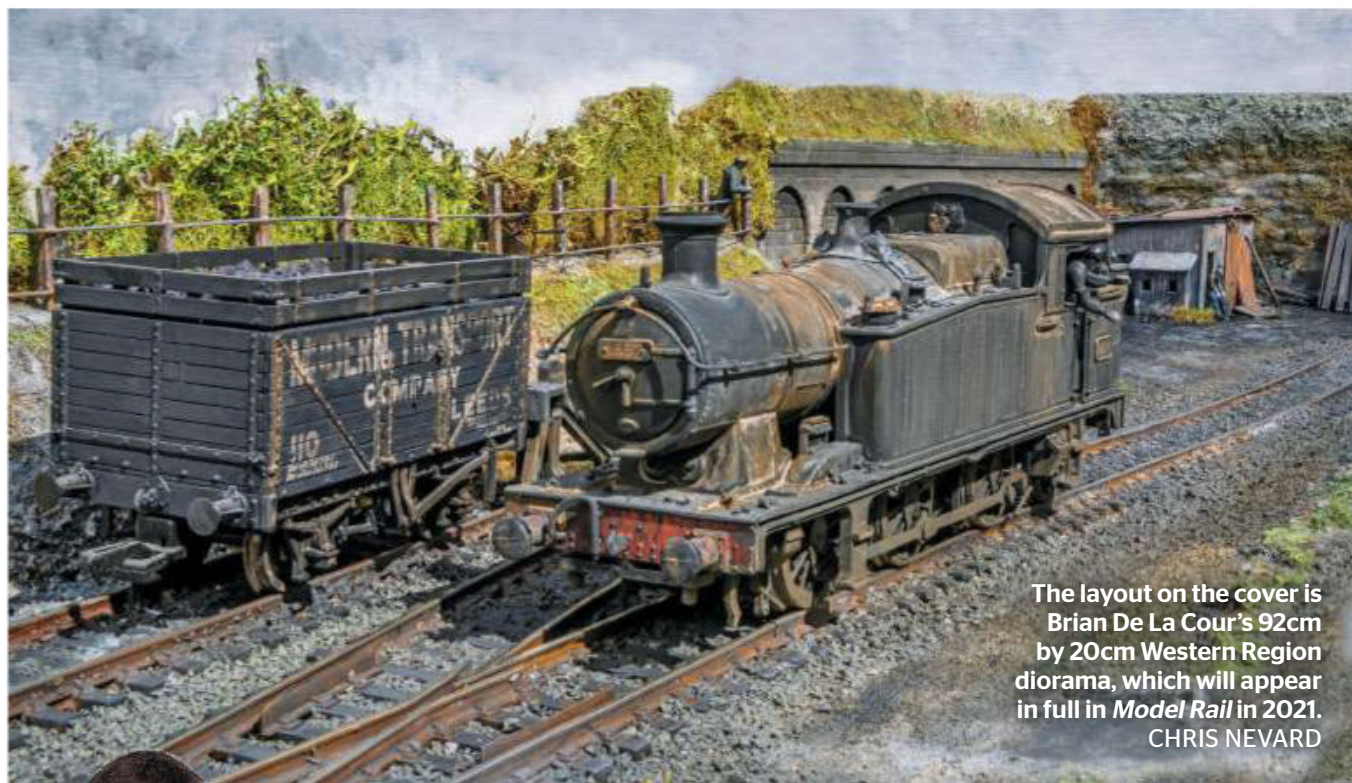
Paul is full of ideas for innovative and exciting layout designs with almost endless possibilities.



Ben Ando

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

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



The layout on the cover is Brian De La Cour's 92cm by 20cm Western Region diorama, which will appear in full in *Model Rail* in 2021.
CHRIS NEVARD



Here at *Model Rail*, we pride ourselves on the thoroughness and unbiased nature of our reviews. We have very strict marking criteria and judge each model on its own merits against as much prototype reference material as we can find. I can assure you that there's never any hidden agenda or favouritism in our reviews.

That said, we're only human and some models impress as soon as you open the box. You can be as objective as possible, but sometimes a model just feels and looks 'right'. Often, you can't even put your finger on what makes it so good - and it means that you can be more forgiving over the odd error. It's the X factor that turns a good model into a great one. A couple that spring to mind are Bachmann's crane or Hornby's *Rocket*.

The reason that I mention this is that we welcome the return of DJ Models' Hunslet 'Austerity' this month, albeit now in the box of Bachmann's offshoot brand EFE Rail.

The 'Austerity', given the age of Hornby's ex-Dapol model, was one of those locomotives crying out for a 21st-century upgrade. Sadly, the 'Austerity', despite being a decent little model, didn't - for me at least - have that X factor. Good? Yes. Great? Sadly not quite. But there are a couple of models that I'm looking forward to that, at least judging by pre-production samples, suggest that they're going to be corkers - and they're due soon. That's Dapol's '43XX' and Bachmann's '94XX'. And, as you'll see on page 8, our Vale of Rheidol 2-6-2Ts are shaping up well too.

Richard Foster Editor

Subscribe now and get *Model Rail* for less!

Choose from print, digital or a combo deal and get £15 off a subscription to *Model Rail*. See p18.

SUBSCRIPTIONS

To contact us about subscription orders, renewals, missing issues or any other subscription queries, please e-mail bauer@subscription.co.uk or call our UK number on **01858 438884**.

● For overseas subscriptions, call **+44 1858 438884**.

● To manage your account online, visit www.greatmagazines.co.uk/solo

BACK ISSUES

To order back issues, please call our UK number on **01858 438884**.

● Overseas customers should call **+44 1858 438884**.

Life's better with *Model Rail*

Here's why: Starting as a supplement in *RAIL* magazine, *Model Rail* went 'standalone' in 1997. Each issue we bring you easy-to-follow modelling projects that you can complete without breaking the bank, inspirational photographs of the best model railways and thorough, unbiased reviews so you can make the most informed choices when spending your money. Don't forget our own model ranges - see pages **104-107**.

Model Rail essential information

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

A: Check out the online index, kindly provided by UK Model Shops, at www.ukmodelshops.co.uk/ModelRail

Q: Want to order one of our exclusive models?

A: Go to www.modelrailoffers.co.uk or call 01209 705459.

Q: Want to order one of our bookazines?

A: Go to www.greatmagazines.co.uk or call 01858 438884.

Q: Have a problem or query about our digital magazines?

A: Visit www.greatmagazines.co.uk/faq

Q: Subscription issue not arrived?

A: Call our Subscriptions Department on 01858 438884.

Get in touch

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

Postal address

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

Or you can call Jane Skinner on 01733 395155

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

Contents October

Cover Stories

- 8 Our Class 48 is go!
- 34 Strip and repaint a locomotive
- 50 BR's strangest shunter
- 58 Troubleshooting guide to painting
- 76 Ultimate guide to BR liveries

Opening the box

- 6 **The Big Picture**
This month's Big Picture comes from 1972 and features a prototype 'Austerity'.
- 8 **News**
The latest news in railway modelling, including details of our next exclusive model.
- 14 **Show & Tell**
The place to share your projects with the *Model Rail* community.
- 17 **According to Chris...**
Chris discusses his love of modelling buildings he's known during his life.

Inspiration

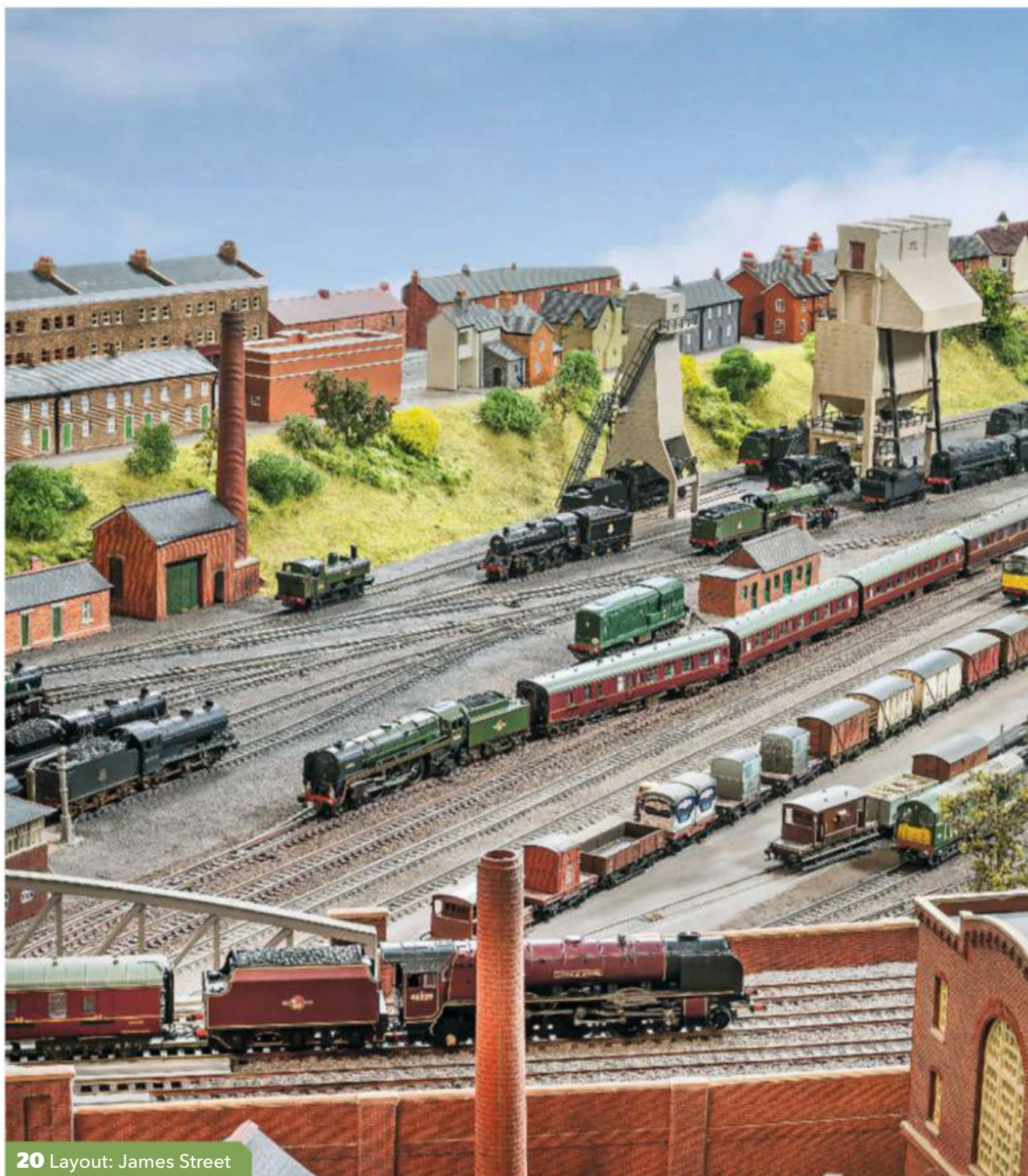
- 20 **Layout: James Street**
The scale and complexity of Steve Wright's 'N' gauge layout is a wonder to behold.
- 50 **Masterclass: Class 13**
The Class 13 was destined for a short and uneventful life. Ben Jones examines its history.
- 64 **Layout: Winkle's Yard**
Shaun Harvey has used numerous small touches to make his goods yard look just right.
- 76 **BR livery guide**
George Dent shows you the paints you need to model BR's colourful history.



76 BR livery guide

Regulars

- 3 Contact *Model Rail*
- 18 Subscribe to *Model Rail*
- 58 Know Your Stuff
- 108 Next issue
- 145 Present Your Case
- 146 Behind the Backscene



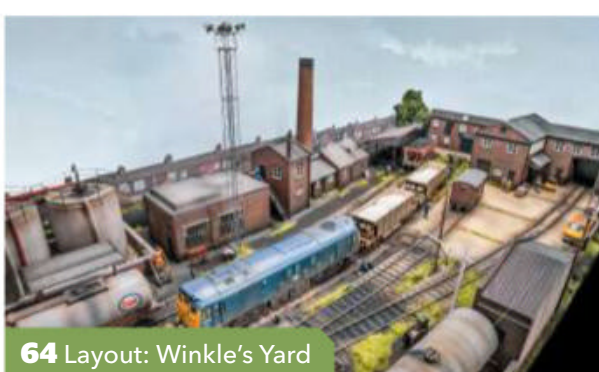
20 Layout: James Street

85 Reviews

EFE Rail's Class 17 and Hunslet 'Austerity', Oxford Rail's 12t tank wagon, IRM's 42ft wagons, Dingo Servo's Micro 10 point motor, Woodland Scenics' Peel 'n' Place tufts, Omen Miniatures' paint and a mini-test of scenic glues.



Looking for a previous article?
Search the online index at:
www.ukmodelshops.co.uk/modelrail



Workbench

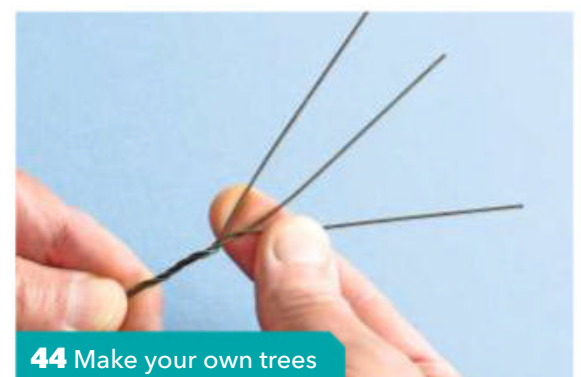
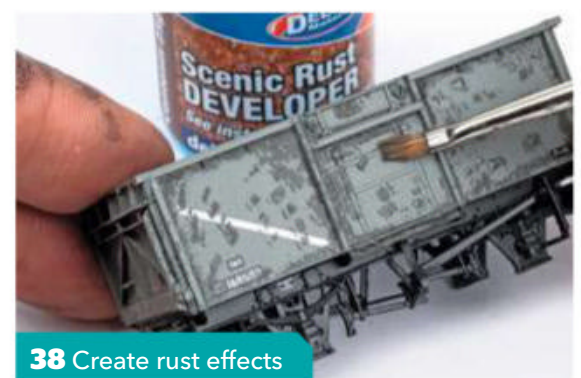
34 Repaint a diesel
George Dent strips and repaints a Class 56 diesel that's spent years in a box.

38 Create rust effects
Using a new rust product, George Dent gives his wagons a corroded look.

40 Distress your wagons
Want to give your wagons a battered look? George Dent shows you how.

44 Make your own trees
Peter Marriott was desperate for a particular tree on his layout, so he made it.

48 Build a level crossing
Peter Marriott builds and installs a level crossing kit.



Model Rail exclusive models

Order your 'J70' and 'USA'
The entire range of our exclusive 'J70s' is now in stock and some of our 'USA' 0-6-OTs are nearly sold out. Buy yours today.



Opening the box

The latest happenings from the world of model railways

The Big Picture

Whilst searching for photographs of the real Hunslet 'Austerity' *Amazon* that features in our reviews section, we discovered this stunning shot taken by Gordon Edgar on June 22 1972 and, given this issue's weathering and painting theme, thought it worth sharing. *Amazon*, Vulcan Foundry No. 5297/1945, struggles in the pouring rain to haul a rake of United Steel internal user wagons, bound for Workington steel works, from the BR exchange sidings up to Harrington Coal Preparation Plant. Turn to p38 to learn George Dent's weathering tips, and read Chris Leigh's review of EFE Rail's *Amazon* on p90.

Photography:
GORDON EDGAR





CLASS 48 IS GO!

We're pleased to announce that we've joined forces with Heljan to bring you another 'OO' gauge ready-to-run first: the Class 48 Co-Co.

As revealed in MR277, our exclusive model will piggy-back on Heljan's all-new 'OO' gauge Class 47 but with all the detail changes required to offer the five locomotives fitted with Sulzer V12 12LVA24 engines. D1702-D1706 were built in 1965 but the V12 engines proved unreliable in service and all five were rebuilt between 1969 and 1971 with Sulzer 12LDA28C engines to become part of the Class 47 fleet. The only survivor is the Great Central Railway's D1705.

It is hoped that we will be able to offer a sound-fitted option for the '48', using a French '68000' A1A-A1A sound file if it can be anglicised. These locomotives featured the same V12 engine and BR sold the redundant '48' power units to SNCF.

Prices have yet to be confirmed and we're unable to take orders at this stage. The order book will open closer to delivery, which is expected in late 2021.



COLOUR RAIL

OO GAUGE MODEL RAIL/HELJAN CLASS 48 Co-Co

What's planned?

- ◆ MR700: D1702, BR two-tone green
- ◆ MR701: D1704, BR two-tone green, weathered
- ◆ MR702: D1706, BR two-tone green with yellow ends
- ◆ MR703: D1703, BR two-tone green with yellow ends, weathered
- ◆ MR704: D1705, BR two-tone green

Price? TBC

What stage is it at? CAD design

When's it due? Late 2021

MODEL RAIL PROJECT UPDATE

Good progress is being made on other exciting *Model Rail* exclusive models:

Vale of Rheidol 2-6-2Ts: Design work is complete and has been checked and tooling work should start imminently. The

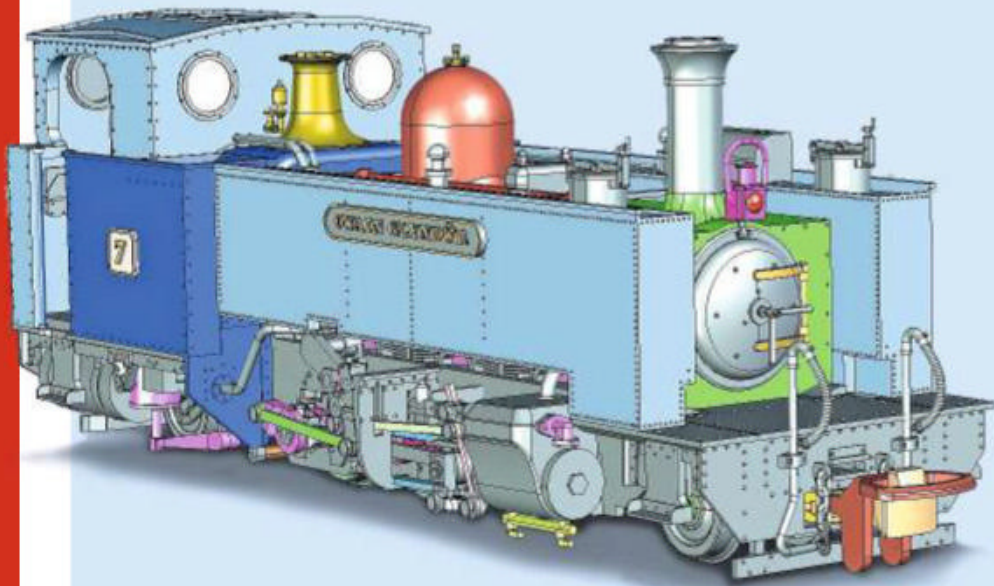
model includes a Next18 decoder socket, provision for sound and our design team is working out whether it's possible to get true firebox flicker which will be visible behind firehole doors that have

been designed to open and close.

Ruston 'PWM' 0-6-ODE: Heljan's design team has produced the artwork files, which has been assessed and the final tweaks being made.

Expect to see decorated samples shortly.

WR '16XX' 0-6-OPT: Currently in production! Delivery is expected by the end of the year, which will allow us to start work on the 'E1' in earnest.



PECKETT KIT

Planet Industrials has unveiled a new kit to modernise Hornby's Peckett 'W4' 0-4-OST with a later-style cab and steel buffer-beams. The kit contains etched and 3D-printed parts and also includes an alternative chimney.

Price: £35.00

Availability:

www.narrowplanet.co.uk



Keep up to date with
Model Rail News online.



On the road



Osborn's Models has added two modern Scania lorries to its range of 1:148 scale road vehicles. There's an 8x4 tipper lorry and a four-wheel skip. Prices start from £15.95. **Availability:**

Osborn's Models

Tel: 01237 423453 **Web:**

www.osbornsmodels.com

◆ Oxford Diecast has revealed an extensive collection of new 1:76 road vehicles to suit different eras. 'Big Four' layouts will be able to take advantage of the new Aveling & Porter steamroller (the initial release comes with a tar spreader) while the Riley Elf and Austin Healey Sprite Mk 1 will suit 1950s layouts. 1960s modellers will enjoy the Renault 4 and a scooter that will be popular with 1:76 scale mods. Modern image modellers will be able to take advantage of the Ford Transit Mk 7 Custom, while Scania's new S Series 6x2 tractor unit will be offered with either refrigerated or curtain-sided trailers.

Availability: Oxford Rail stockists or www.oxforddiecast.co.uk



BUSCH IS ROLLING WITH THE TIMES

We're not entirely sure why anyone would want to model the Covid-19 pandemic but, if you do, Busch is there to help. It has launched three new 'OO' packs: 7910 contains figures engaged in a fight over the last pack of toilet roll in a shop (RRP £18.17), 7911

contains figures panic-buying toilet roll (£17.26) while 7912 contains a van to take away said toilet roll plus some Covid-19 warning signs (£25.45).

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

CHINLEY PIN-UP

The Famous Trains model railway centre in Derby has produced a calendar for 2021 depicting its show-case layout of Chinley when it was an important junction between the Hope Valley and Buxton lines. The A4 calendar costs just £5.50 and can be ordered by e-mailing info@famoustrains.org.uk



HOMEBREW KITS

'N' gaugers can now model a brewery, thanks to Kestrel's Brewery Building (GMKD1006, £24.00), Boiler House (GMKD1007, £24.00) and Brewery Stores (GMKD1008, £24.25) as well as making use of the new Kestrel Oil storage tanks (GMKD1009, £18.75).

Availability: Gaugemaster **Tel:** 01903 884488

Web: www.gaugemasterretail.com



SHUNTERS IN 'O' AND 'OO'



Heljan is to produce the BR '02' 0-4-ODM in both 'O' and 'OO'. Yorkshire Engine Co. built 20 of these diminutive shunters in 1960/1961. Their Rolls-Royce engines put out just 170hp and, with their rear access platform, they had as much



character as the Lyr 'Pug' 0-4-OSTs that they were designed to replace. The last were withdrawn in 1975 and seven were saved, including D2860, which is part of the National Collection. A diesel electric version was built for industry.

Heljan's 'O' gauge '02' will feature switchable cab lights, LED marker lights, a 21-pin DCC decoder interface and provision for sound. Tooling has started and the model is expected to arrive in stock in late 2021.

Design work is progressing on the 'OO' gauge version and it's pencilled in for delivery in early 2022.



HELJAN CLASS 02 0-4-ODM

What's planned?

- ◆ HJ2870: BR green, unnumbered
- ◆ HJ2871: D2860, BR green
- ◆ HJ2872: 02004, BR green minus BR logo, weathered
- ◆ HJ2873: BR blue (wasp stripes) 02003
- ◆ HJ2874: Redland livery
- ◆ HJ2875: All-over yellow with wasp stripes
- ◆ HJ2876: ND3, NCB blue
- ◆ HJ2877: Sam, green livery

Price: From £339.00

What stage is it at? Tooling

When's it due? Q4 2021



HOPPER TWINS

Accurascale is to produce the IIA bogie hopper wagon in 'OO'. These vehicles, originally coded HYA, were developed from EWS'

HTA wagon by Romanian builder IRS with TF25 bogies for GBRf. IRS and W.H. Davies built some 400 between 2007 and 2011 for both

GBRf and Fastline Freight. Although built for coal traffic, they're now used to move aggregate and biomass.



ACCURASCALE HYC/IIA HOPPER WAGONS

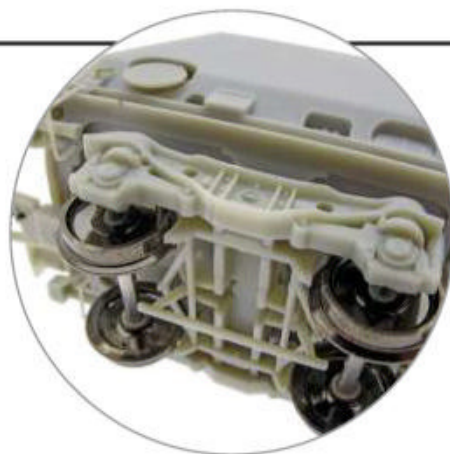
What's planned?

These wagons will be offered in a variety of liveries, such as unpainted GBRf with coal branding, unpainted Fastline Freight, unpainted Fastline Freight with GE logos, and unpainted former Fastline with Touax logos.

Price? From £74.95 for a twin-pack

What stage is it at? Engineering prototypes

When's it due? Q2 2021



NEW 'N' GAUGE CONTAINERS

Arch Laser has added fresh meat containers to its range. These 3D printed items are designed to fit Peco and Graham Farish 'Conflats' but come unpainted.

Product code: ALNP002

Price: £3.00

Availability:

Osborn's Models

Tel: 01237 423453

Web:

www.osbornsmodels.com

COACH KITS IN BRASS



Eveleigh Creations has developed a range of etched brass Great Eastern Railway coach kits. The first types that are available to order are the Diagram D401 four-wheel Third, Dia. D101 four-wheel First and Dia. D501 four-wheel Brake Third as well as the six-wheel Dia. 219 Luggage Composite, Dia. 404 Third, Dia. 10 Third Saloon, Dia. 514 Brake Third and Dia. 516 Full Brake. Prices start from £25 for a body kit. Wheels and axles need to be sourced separately.

In development are etched Wisbech & Upwell rolling stock kits:



these comprise four-wheel and bogie coaches plus brake coach No. 16.

Availability: www.eveleighcreations.com



Incoming

Updates on exciting new ready-to-run model projects



DAPOL SECR 'D' 4-4-0

What's planned? Produced in conjunction with Locomotion Models and Rails of Sheffield, seven different 'Ds' will be produced in SECR, Southern and BR liveries, including the NRM's No. 737.

Price? TBC

What stage is it at? Decorated evaluation samples

When's it due? 2021

First announced? November 2019



HELJAN CLASS 17 Bo-Bo

What's planned? Four liveries planned, including BR green, BR blue and D8607 in weathered BR green.

Price? £549.00

What stage is it at? Decorated samples

When's it due? Q4 2020

First announced? January 2019



HELJAN 'AL6'/CLASS 86 Bo-Bo

What's planned? Seven guises planned from original Electric blue without warning panels to weathered BR blue.

Price? £189.95

What stage is it at? Decorated samples

When's it due? Autumn 2020

First announced? January 2019



KERNOW MRC LSWR DIA 1541 ROAD VAN

What's planned? Ten running numbers available in LSWR, Southern, BR liveries, with mainland and Isle of Wight detail differences.

Price? £34.99

What stage is it at? Engineer prototype

When's it due? 2020/2021 **First announced?** September 2014



MURPHY MODELS 121 CLASS Bo-Bo

What's planned? IE and original CIÉ grey, followed by CIÉ black, 'Supertrain' orange and black and IR liveries.

Price? £167.50

What stage is it at? In production

When's it due? Imminently!

First announced? 2016



N GAUGE SOCIETY HUNSLET 325HP

0-6-0DH

What's planned? Ten liveries planned including NCB, Esso, CEEB and Harry Needle colour schemes.

Price? Approx. £82.00 but only available to NGS members

What stage is it at? Ready for delivery

When's it due? Imminently! **First announced?** March 2017



NIU MODELS NER INDEPENDENT SNOWPLOW

What's planned? 'Ploughs Nos. 18-20 to be offered in NER, LNER and BR liveries.

Price? TBC

What stage is it at?

CAD design/test mouldings

When's it due? Spring/summer 2021

First announced? May 2020



REVOLUTION TRAINS FWA 'ECOFRET' CONTAINER WAGONS

What's planned? Freightliner green twin-packs and DB red and GBRf blue triple-packs.

Price? From £75.00

What stage is it at? Decorated samples

When's it due? 2020/2021

First announced? November 2019



REVOLUTION IWA 'HOLD ALL' & TIMBER WAGONS

What's planned? 'Hold All' to be offered in Norsk Hydro, Cargowagon and plain silver liveries; the timber variant is to come in Tourax blue.

Price? From £75.00 for a twin-pack (pre-order price)

What stage is it at?

Engineering prototypes

When's it due?

2020/2021

First announced? Summer 2019



TRAINS4U/CAVALEX KFA 'WARFLAT'

What's planned? Original PFB version with a choice of four running numbers and four options for later, air-braked KFA wagon.

Price? From £35.00

What stage is it at? Decorated evaluation samples

When's it due? 2021

First announced? August 2019





RAIL RARITIES

Newman Miniatures specialises in designing 3D-printed kits of early and unusual locomotives. But, for 2020, it has gone one stage further by offering two of the most unusual railway systems ever seen in the British Isles.

First is a 2mm:1ft scale representation of Brunel's 7ft 1/2in broad gauge, complete with 2-2-2 *North Star*, open and closed coaches, wagons and 'balk road' track, which has been designed to accept Peco rail. Prices start from £10.01 for a broad gauge four-wheel wagon and £5.92 for a balk road curve.

But NM's most unusual offering are the locomotives, coaches, track and even level crossing 'draw bridges' for the Listowel & Ballybunion Lartigue monorail. A basic 3D-printed Listowel Hunslet 0-3-0T costs £20.02 but requires axles and other minor parts to complete.

As designed, both the broad gauge and monorail are designed to be unpowered push-along systems. However, NM suggests that both can be powered.

Availability: www.shapeways.com/shops/newman-miniatures

EVACUATION COMMEMORATION

The Medway Queen Preservation Society has added two 'N' gauge Dapol gunpowder vans to its range of limited editions to help commemorate the 80th anniversary of PS *Medway Queen*'s role in the Dunkirk evacuations.

Price: £27.55 (twin pack)

Availability: Medway Queen

West Support Group

Tel: 01793 851096

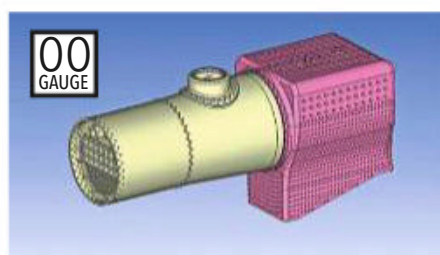
E-mail:

richardhalton1502@gmail.com



ON THE BOIL

Does your depot or workshop diorama need cosmetic boilers but you're loathe to cannibalise an RTR steam locomotive? Then Niu Models might have the answer. It's produced a 4mm:1ft scale 3D BR '4MT' boiler as the start of a potential range. Prices are expected to be £10-£15. To discuss



your boiler requirements, call Niu Models on 02036 696750 or e-mail info@niumodels.co.uk

PIPES AND WALLING

New to Gaugemaster's Ford-hampton range of 'OO' gauge plastic kits are GM438, Dockside Walling (£14.75) and GM448 Industrial Pipeline (£24.25).

OO
GAUGE



Rolling stock releases

Models coming to a model shop near you soon

Hornby has released two new HST power car twin packs. This one features 43002 *Sir Kenneth Grange* in GWR's eye-catching take on original BR blue/grey livery, alongside 43198 *Driver Brian Cooper* in GWR's green livery. **Product code:** R3770 **Price:** £289.99

Availability: Hornby stockists or www.hornby.com



The other HST power car pack comprises 43041 *Meningitis Trust Support For Life* and 43005 in GWR's handsome plain green colour scheme. **Product code:** R3685 **Price:** £289.99

Availability: Hornby stockists or www.hornby.com



Hornby's full range of sliding door HST Mk 3s is now available. Joining the Trailer Guard Standard we reviewed in MR277 is the Trailer First (our sample depicts 41193, formerly First Open 11060 in Cross Country livery - R4942), Trailer Standard (in this case Cross Country's 42366, formerly Tourist Standard Open 12007 - R4939) and the Trailer First Buffet (ScotRail's 40601, formerly Trailer First 41032 - R4907). **Price:** £34.99 each

Availability: Hornby stockists or www.hornby.com



Hornby's GWR 'Large Prairie' is now available in GWR livery as No. 6110 with the Great Western livery is carried from 1931 until the mid-1930s.

Product code: R3721

Price: £139.99

Availability: Hornby stockists or www.hornby.com



The old Airfix 'Macaw H' bogie flat wagon has returned to the Hornby range in GWR grey livery.

Product code: R6982

Price: £19.99 **Availability:**

Hornby stockists or www.hornby.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!



Show & Tell

The place to share your projects with the *Model Rail* community.

Over the past month hundreds of you have been showing us some of the amazing modelling you have been doing on your layouts. Some are starting fresh with a new baseboard while others are putting the finishing touches to years of hard work. In this issue's According to Chris, Chris Leigh discusses how buildings can make your layout unique, so for this issue's Show & Tell, we're having a buildings special! If you want to contribute to a future Show & Tell, you can e-mail theclubroom@bauermedia.co.uk or look out for our Modelling Monday posts on social media.

Trolley bash

This is the Gaugemaster kit of a supermarket which they have branded as an Aldi, but I'm going to add plenty of orange and change it to a Sainsbury's instead.

Laurence Neave



Custom corner

This laser-cut JS Models kit is a custom commission that fits perfectly in the corner of 'Peartree Green Dock'. All that's left to do now is paint and detail it.

Mark Miller



Hotel check-in

This is taking a very long time indeed but I'm very happy with the way my scratchbuilt hotel is coming along.

Dan Evason

Unboxed

This L-cut LNER signal box is almost finished, I've only had it a year!

Julian Sprott



Distillation station

I finally added the office to a distillery that I made for my father's layout 'Braeside'. It was a lockdown project so I spent a long time waiting to be able to do a site visit. The office is the nearest building in the photograph and is the last part of this large scratchbuild project.

Brian McCulloch



Two sheds better than one

I've started building the second shed for my 'O' gauge project.

Callum Sutherland



METCALFE

Card Construction Kits

COUNTRY



GRANGE HOUSE
00 CODE PO257
N CODE PN157



GARDENER'S COTTAGE
00 CODE PO258
N CODE PN158



CROFTER'S COTTAGE
00 CODE PO259
N CODE PN159



GARDEN SHEDS
00 CODE PO512
N CODE PN812



MANOR FARM HOUSE
00 CODE PO250
N CODE PN150



MANOR FARM BARN
00 CODE PO251



WORKERS' COTTAGES
00 CODE PO255
N CODE PN155



STABLE BLOCK
00 CODE PO256
N CODE PN822

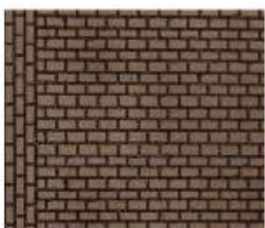


MANOR FARM BUILDINGS
00 CODE PO252
N CODE PN951



SHOW JUMPS
00 CODE PO511

BUILDING MATERIALS



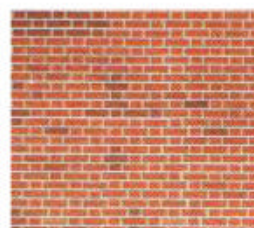
COBBLESTONE
00 CODE MOO51
N CODE PN903



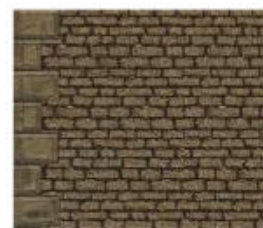
DRESSED GRITSTONE
00 CODE MOO52



ENGINEER BLUE BRICK
00 CODE MOO53



RED BRICK
00 CODE MOO54
N CODE PN900



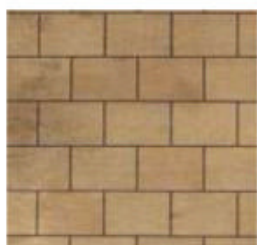
CUT STONEWORK (B1)
00 CODE MOO58
N CODE PN901



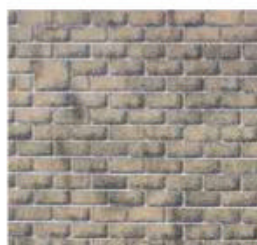
FINE TIP GLUE APPLICATORS
MT907



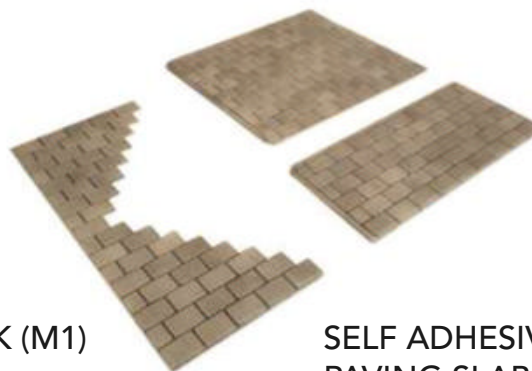
TARMAC
N & 00
CODE MOO56



PAVING SHEETS
00 CODE MOO55
PN903



CUT STONEWORK (M1)
00 CODE MOO57
N CODE PN902



SELF ADHESIVE PAVING SLABS
00 CODE PO210



BUILD A MODEL RAILWAY DVD
PART 1 / PART 2

View the full range online or call to request a catalogue on 01729 830072

WWW.METCALFEMODELS.COM

FOLLOW US: FACEBOOK @METCALFEMODELS | INSTAGRAM @METCALFEMODELSANDTOYS | TWITTER @METCALFEKITS

HARDER & STEENBECK



PAINT EASY THE HARDER WAY

www.harder-airbrush.eu



According to Chris...

...It's the buildings that can make your layout different from everyone else's.

A lot of layouts get no further than the track and wiring. After all, the hobby is called 'railway modelling', so we complete the railway and we run trains. From then on, progress is likely to be slow. Ballasting is a horrible job. Scenic work is messy, especially if you do it the way some people do. Be thankful for Skaledale because making buildings is a faff, isn't it?

No, not for me. I'm a disorganized person. My office desk is often untidy and I work on the dining table at home because my workbench is full of clutter. My photograph collection is stored in IKEA boxes, under headings like 'Locomotives – steam' and 'Stations A-K', so when

I'm looking for a particular photograph, I have to plough through a box-full. Most people would find that counter-productive, but I find it quite useful because the search often unearths a picture that I had forgotten

about and which provides inspiration.

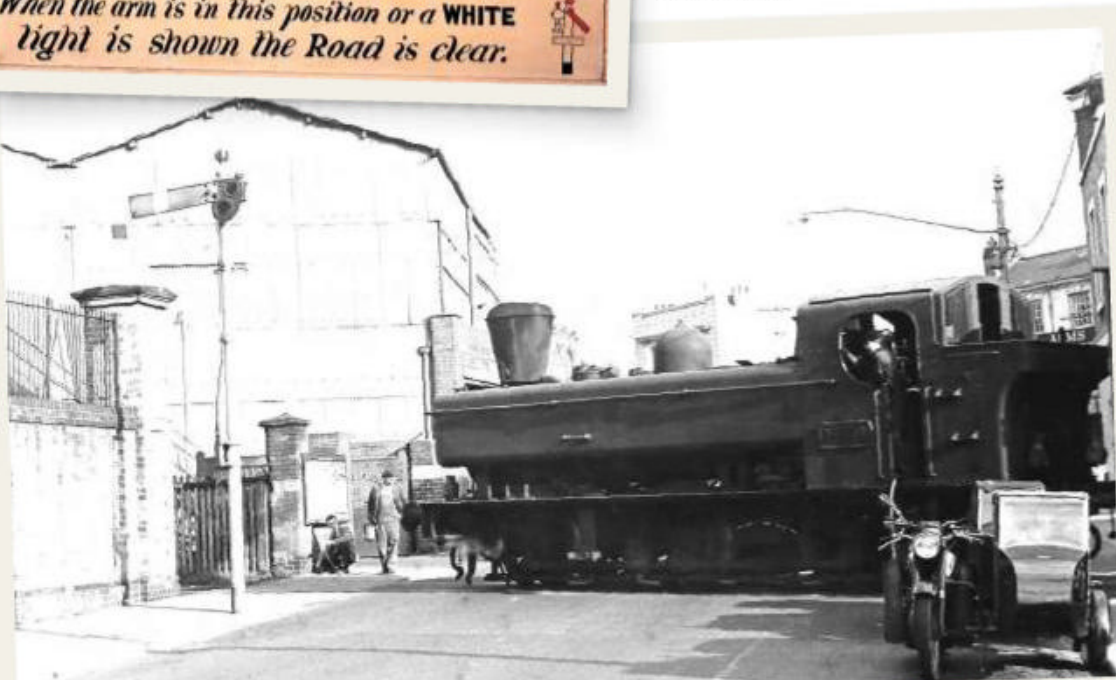
Sometimes it inspires another modelling project, but occasionally it fires up a train of thought. I recently rediscovered some old Enprints taken on my Kodak Brownie 127 when I was a teenager. There were a couple of shots of Kitmaster models on a rickety wooden bridge over the goldfish pond. I blame Bekonscot model village for that. I've always found its wonderful blend of English architecture, fishponds and Gauge 1 model railways an inspiration.

Bekonscot helped to fire my interest in model

As there were no semaphore railway signals in the *Highway Code*, notices were provided on the road approach to the crossing. One notice is preserved at the National Railway Museum. The original slotted post signals did have arms that faced to the right. SCIENCE & SOCIETY



Below: '16XX' class 0-6-0PT No. 1661, fitted with the Busby-style spark-arrestor chimney for working the Cleobury Mortimer & Ditton Priors railway which served a naval armaments depot, crosses Shrub Hill Road while working the vinegar branch. This locomotive acquired the nickname 'Vinegar Castle'. The Railway Arms can be glimpsed over its bunker. CHRIS LEIGH COLLECTION



I still have the buses, the lamppost and (probably) the policeman from my first street scene diorama, which actually has no railway.

buildings and among the pictures was the accompanying diorama. I built it for *Model Railway Constructor* around 1964 when I would have been 17 years old. It was the first diorama I ever built and it featured a demolition scene and a couple of Midland Red buses which I had scratchbuilt from Plastikard.

It got me a sharp reprimand from no lesser person than Geoffrey Freeman-Allen, the managing director. I had used the Superquick Elizabethan shops kit as the basis of the model and he rightly advised me that I couldn't demolish Elizabethan buildings. I revised the external finish on part of the building to disguise its Elizabethan origins.

I still like to model buildings and street scenes. When I built the little Wisbech & Upwell model (MR261) it was actually H.B. Brown's little shop that I wanted to build. The fact that it had a railway in the street outside was a real bonus! To make it the perfect project I was able to add the Royal Standard pub and the terrace of houses and shops on the approach to Newcommon Bridge. It is, however, the chapel in Elm High Road, with the tramway on its doorstep, that I really want to model and I haven't got round to it yet.

I'm now researching another project, this time to suit our forthcoming '16XX' 0-6-0PT. Again, it's a railway in the street, inspired by the unique semaphore-signalled road crossing where Worcester's vinegar works branch crossed Shrub Hill Road into the works of Hill, Evans And Co. It promises to be a challenging project as there are lower quadrant signals on both the railway and the road, and the wagons seem to have been shunted by gravity. However, the most appealing feature to me, appears in only one photograph that I've found so far. The Railway Arms close by the crossing was a typical three-storey city centre backstreet pub with filthy, smoke-blackened brickwork.

A check of Google Earth reveals that it is, inevitably, long gone. Even the listing of Closed Pubs in Worcester fails to make mention of it and because most photographers were interested in the train, not the street, only one photograph has come to light so far. Oh, well, I'll work with what I have.

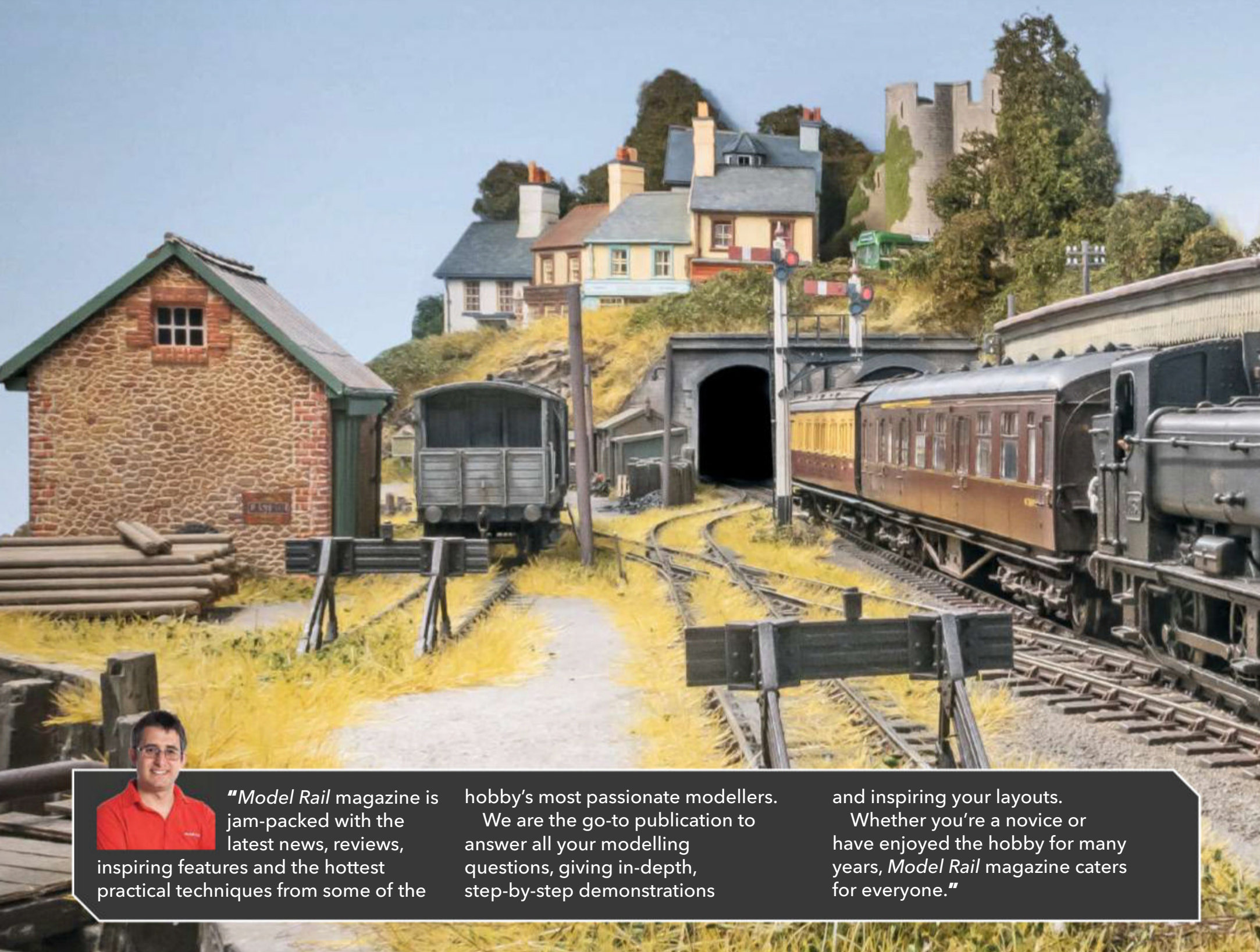
Modeller CV: Chris Leigh

Currently trying to design a way of gravity-shunting model wagons without unwanted runaways.

Subscribe and save

Save over £15 when you subscribe to

MODEL RAIL



"Model Rail magazine is jam-packed with the latest news, reviews, inspiring features and the hottest practical techniques from some of the

hobby's most passionate modellers.

We are the go-to publication to answer all your modelling questions, giving in-depth, step-by-step demonstrations

and inspiring your layouts.

Whether you're a novice or have enjoyed the hobby for many years, *Model Rail* magazine caters for everyone."

SUBSCRIBE BY PHONE OR
ONLINE **QUOTE: JGAA**

01858 438884

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

www.greatmagazines.co.uk/

PRINT

£3.60 a month when
you pay by a recurring
direct debit

SUBSCRIBER BENEFITS

- Saving £15 a year
- Read the latest model reviews
- FREE delivery
- Get involved in the world's greatest hobby



MODEL RAIL REWARDS CLUB

Subscribe and become a member of the subscriber exclusive *Model Rail* Rewards Club...

As a subscriber you'll experience a whole lot more for your money. Being a member of our Rewards Club gives you access to exclusive interviews, dedicated photo competitions, giveaways, a first look at selected features prior to publication and much more to enjoy throughout the year.

Completely exclusive to subscribers of *Model Rail*, it's our way of saying thank you for your support. Don't worry if you are already a subscriber - you are automatically a member of our Rewards Club.

● Please note that the Rewards Club is only available to subscribers in the UK who have an e-mail address.

**Call 01858 438884 for
our latest digital offers**

FOR OVERSEAS PRICES PLEASE
CALL: **+44 1858 438828**

modelrail

Terms & Conditions: Subscriptions will start with the next available issue. Your subscription will be continued at this offer price every month thereafter unless you are notified otherwise. The minimum term is 13 issues. You will not receive a renewal reminder and the recurring payments will continue to be taken unless you tell us otherwise. This offer closes on 25/11/2020. This offer cannot be used in conjunction with any other offer. Cost from landlines for 01 numbers per minute are (approximately) 2p to 10p. Cost from mobiles per minute (approximately) 10p to 40p. Costs vary depending on the geographical location in the UK. You may get free calls to some numbers as part of your call package - please check with your phone provider. Order lines open 8am-9.30pm (Mon-Fri), 8am-4pm (Sat). UK orders only. Overseas? Please phone +44 1858 438828 for further details. Calls may be monitored or recorded for training purposes. For full terms and conditions please visit www.greatmagazines.co.uk/offer-terms-and-conditions

'N' GAUGE LAYOUT **JAMES STREET**



What makes this layout great?

“To have something the size and complexity of 'James Street' is something to which a lot of modellers can only aspire. With up to 12 trains running at once it's easy to get mesmerised watching them snaking back and forth through the network of lines.”

Tipping the scales

The scale and complexity of **Steve Wright's**
'N' gauge layout is a sight to behold.

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



Every once in a while, a layout such as 'James Street' graces the pages of *Model Rail*. It's huge, incredibly complex, and the track plan looks as though a budding young modeller would doodle it in the back of a maths book. It's also one of those layouts that always has a crowd around it at an exhibition. Before we dive into the story of this 'N' gauge behemoth, this is a rare example of where we suggest turning to the back of this article first and taking a few moments to look at the track plan as it will help you to understand the magnitude of the layout Steve Wright has built over the last two decades.

"'James Street' started life as a terminus to fiddleyard layout built by my dad in the mid-1990s," explains Steve. "When he passed away I took on the

layout as a replacement for another, which I sold in 1998. The name 'James Street' has come from my dad who was called James, and it's nice that his original layout has grown and lives on in his memory. In its first form it consisted of just the terminus and a two-track line-out on an 8ft long board. I began to build what was to become 'James Street' in 2000 and wanted to make it into a larger layout with a lot of operational potential, but without a lot of the problems that had plagued my previous builds. By 2002 I had added the dock area and extended the two track main line around to the rear of the layout, along with the front part of the four-track main line and what is now Kendall station. This upper level included a fiddleyard where the goods and carriage sidings are now, but had the reversing loop which runs through Iona station. ➤

2 After the new harbour extension, the layout can't now get any bigger as it is the maximum size of Steve's garage!



“The name ‘James Street’ has come from my dad who was called James, and it’s nice that his original layout has grown and lives on in his memory”

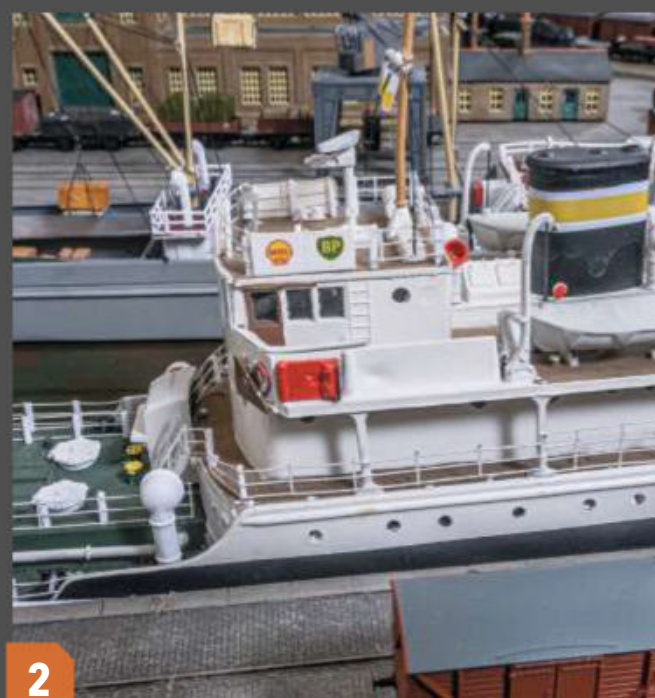


3 things we like



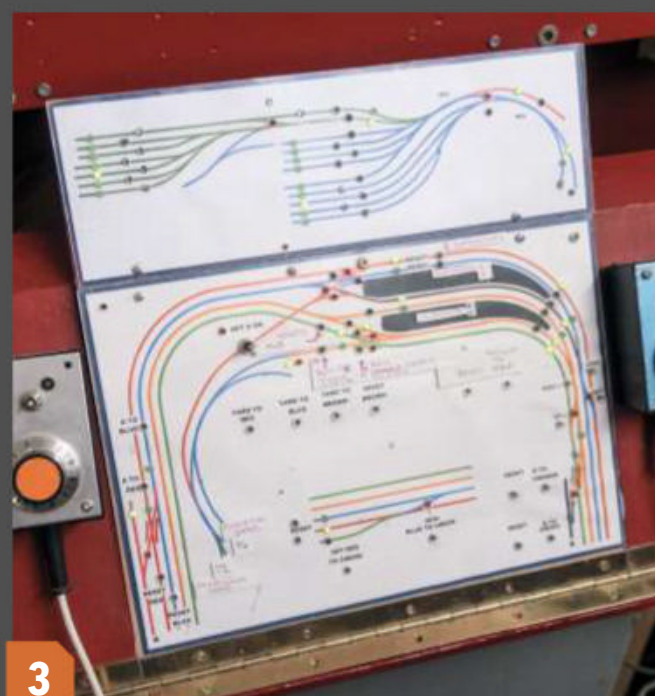
1

No matter where you look, new lines appear from everywhere!



2

Martyn's kitbashed ships bring activity and life to this bustling harbour.



3

To make controlling the layout easier, the track plan and controllers are colour-coded.

“‘James Street’ has up to 12 trains moving at any one time, so there’s always something for the operators to do and the viewers to look at”

3 The buildings are a combination of kit and scratchbuilt. Steve sees buildings he likes the look of and figures a way of incorporating them onto the layout with some alterations.



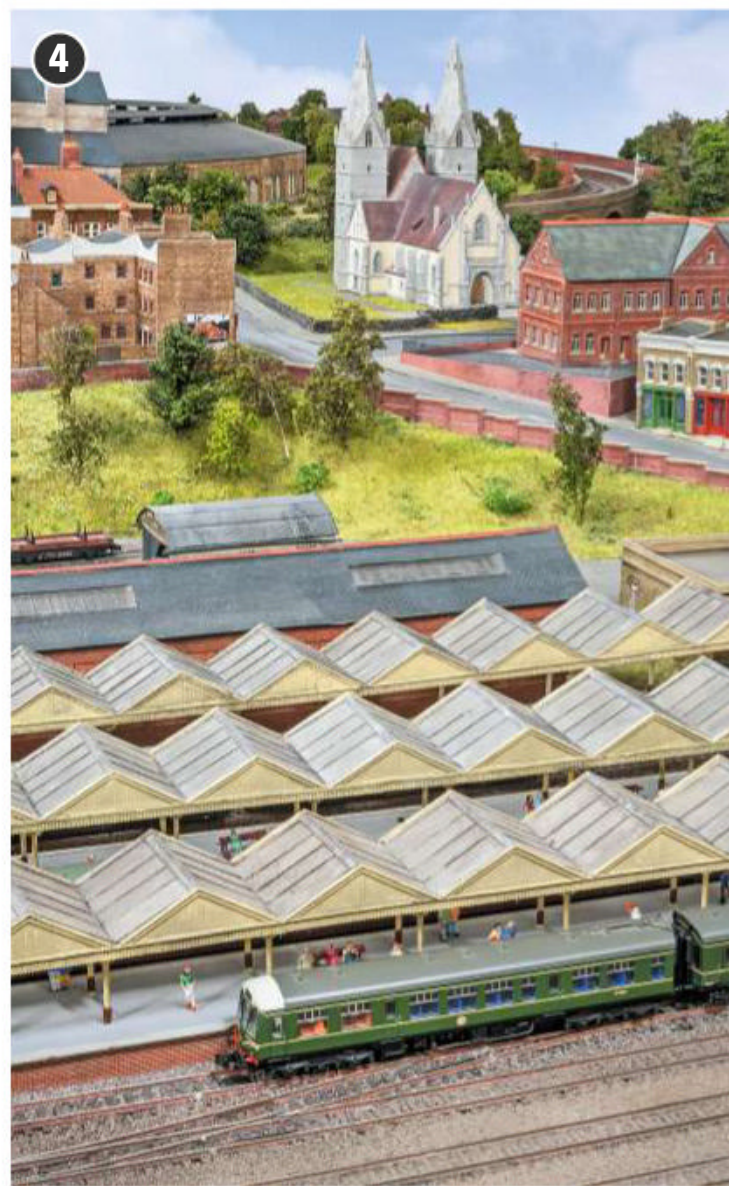


By 2010 the layout was basically complete in the original form, but I found the dockyard difficult to operate as all trains had to come into the reception roads by the main goods yard at James Street, then be shunted across all running lines into a run-round loop, after which shunting could be done. I decided to turn all of the reception sidings, which were originally stub end, into loops, and added a 6in section to the side of the layout to allow this. I had to move the garage doors out by the same amount to make it possible!"

You might be wondering why Steve has decided to make 'James Street' quite so big and complicated. For him, interest on the part of both the operators and the viewer is key in a packed exhibition hall.

"Over the course of a weekend you can be operating the layout for 12 hours or more, so I really wanted to create something that would keep people's attention but also be enjoyable for the operators. I see a lot of layouts which run to a timetable and there's nothing wrong with that if that's what the operator enjoys, but sometimes minutes can go by without anything moving. In contrast 'James Street' has up to 12 trains moving at any one time, so there's always something for the operators to do and the viewers to look at. On the whole, people enjoy it, but you can't please everybody and we have even had one person who complained that there was too much going on!"

Let's talk about some of the numbers involved at 'James Street' as then it's easy to compare some of the figures with your own, or a friend's layout. 'James Street' is over 300sq ft, has 240 points, is home to between 80 and 100 locomotives (although Steve has ➤





6 Communication between the operators of 'James Street' is key as locomotives switch sections, and it can be quite a challenge. Fortunately, everyone on the operating team has been doing it for so long that they are now used to the operations.



The buildings

Steve particularly likes Scalescenes brick paper. He has wrapped some of the plastic buildings at 'James Street' in the paper, taking care to trim around all of the window and door apertures.

"Modelling in 'N' gauge means that individual bricks are very small, but being able to see them makes the building look a lot more realistic. "I tried to detail

bricks using a dry-brushing technique but they're just too small. Not only is it very difficult to do but if you do succeed it will look untidy, unless you have an extremely steady hand. The brick paper guarantees defined straight mortar lines and, so long as you have the patience to carefully cut it to shape, the final result is very impressive."

"I added a fail-safe to the main line so that if there's an opposing point to the main route it cuts the power"

access to 150), 200 coaches and 600 wagons, consists of 19 baseboards, is operated with 14 analogue controllers requiring eight operators and takes between three and four hours to unload and set up. With so much going on the potential for something to go wrong is huge, but Steve has picked up some tips and tricks along the way allowing everything to run as planned during a busy exhibition weekend.

"I've learned several things over the years to help keep things running smoothly. With so many points at 'James Street' it would take a long time to set all the ones you needed for the route you wanted to take, so I've wired them in such a way, with capacitor discharge units, that pressing one stud on the control panel switches all of the points needed for that route. Additionally, I added a fail-safe to the main line so that in the scenario that there is an opposing point to the main route it cuts the power and doesn't allow any trains to move. This is wired to a red flashing light on the control panel so it's easy to see what the problem is. Amusingly, the team member whose idea it was to install the flashing red light then completely forgot about it and wondered why none of his trains were moving until we pointed it out!" ➤



'N' GAUGE LAYOUT **JAMES STREET**



LOCKDOWN LAYOUT

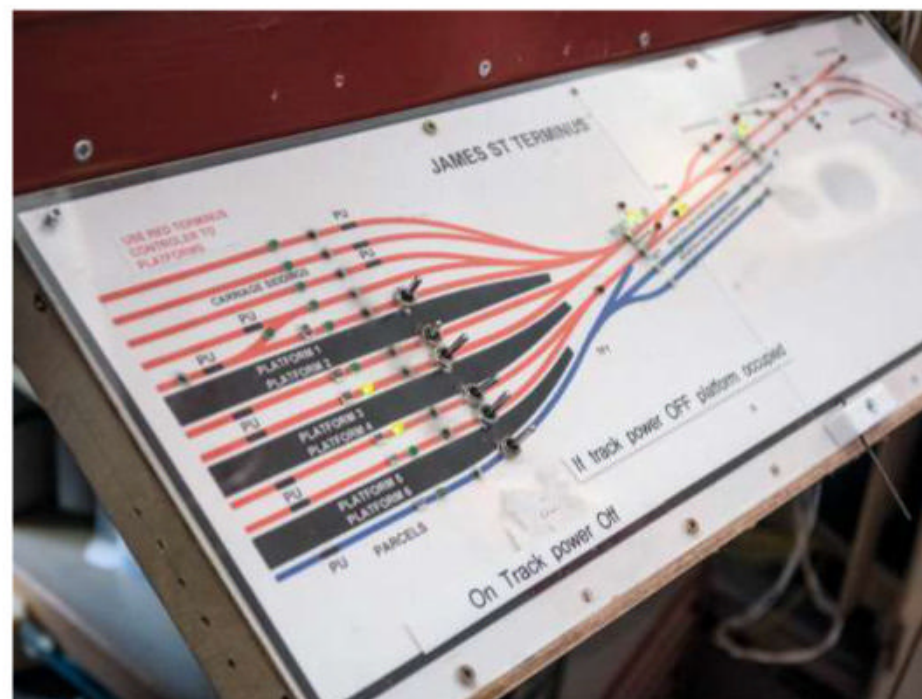
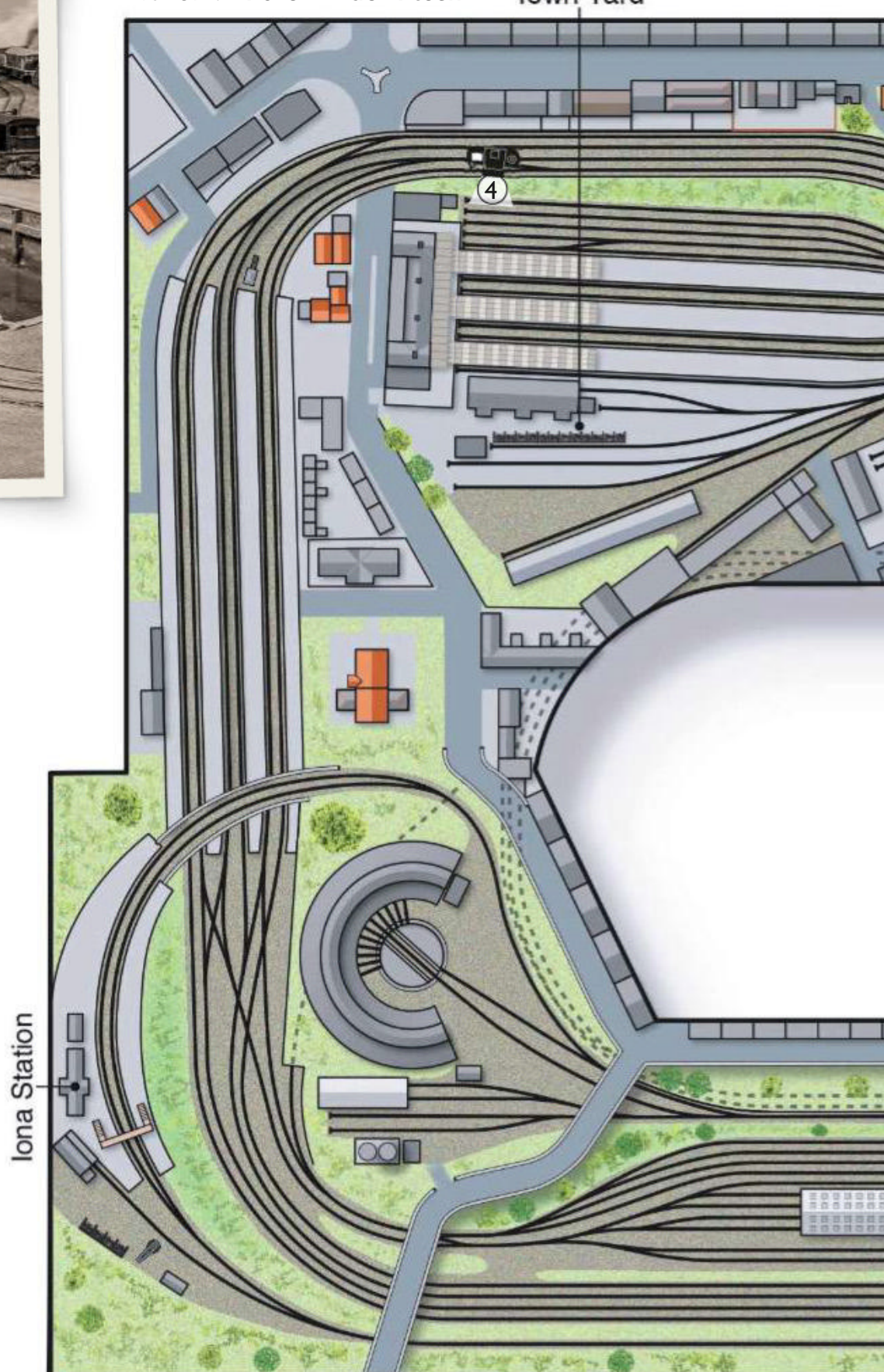
The Covid-19 pandemic has undoubtedly had negative impacts on a lot of people. That being said, model shops have reported a distinct rise in sales as the extra free time has led to a lot more modelling. As Steve mentions, the cancellation of exhibitions has allowed him much-needed time to progress forward with the project. He refurbished the layout following its first show in 2012, but it wasn't until 2017 that the scenery was finished and even then he went through and did a second pass of finer detailing. Now, work has started on another extension to make 'James Street' even bigger.

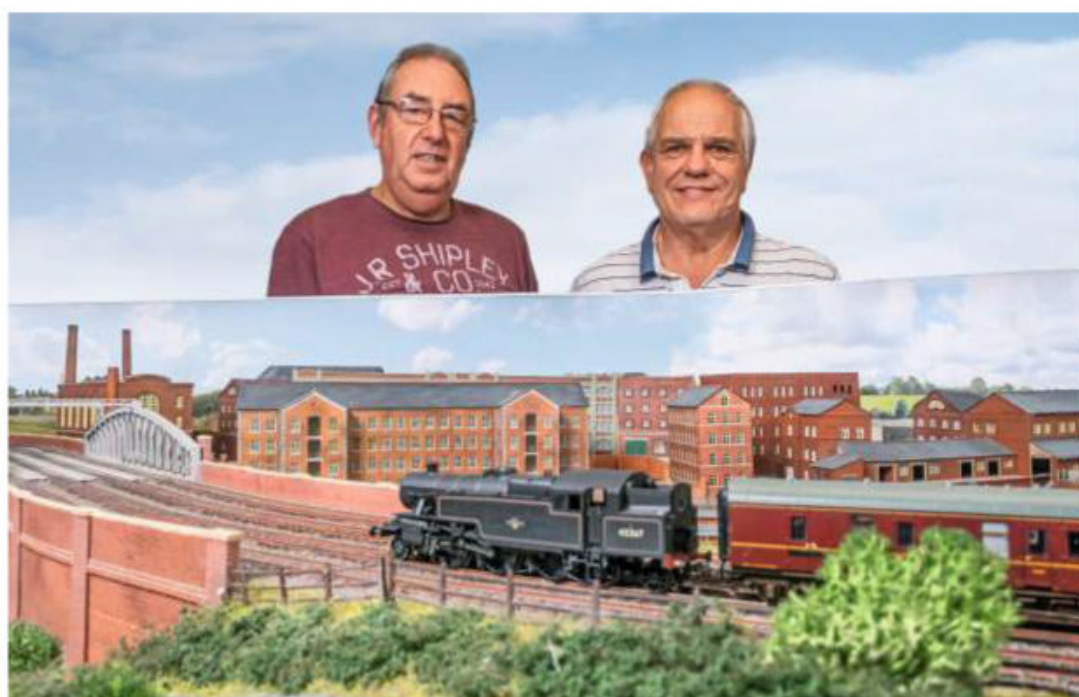
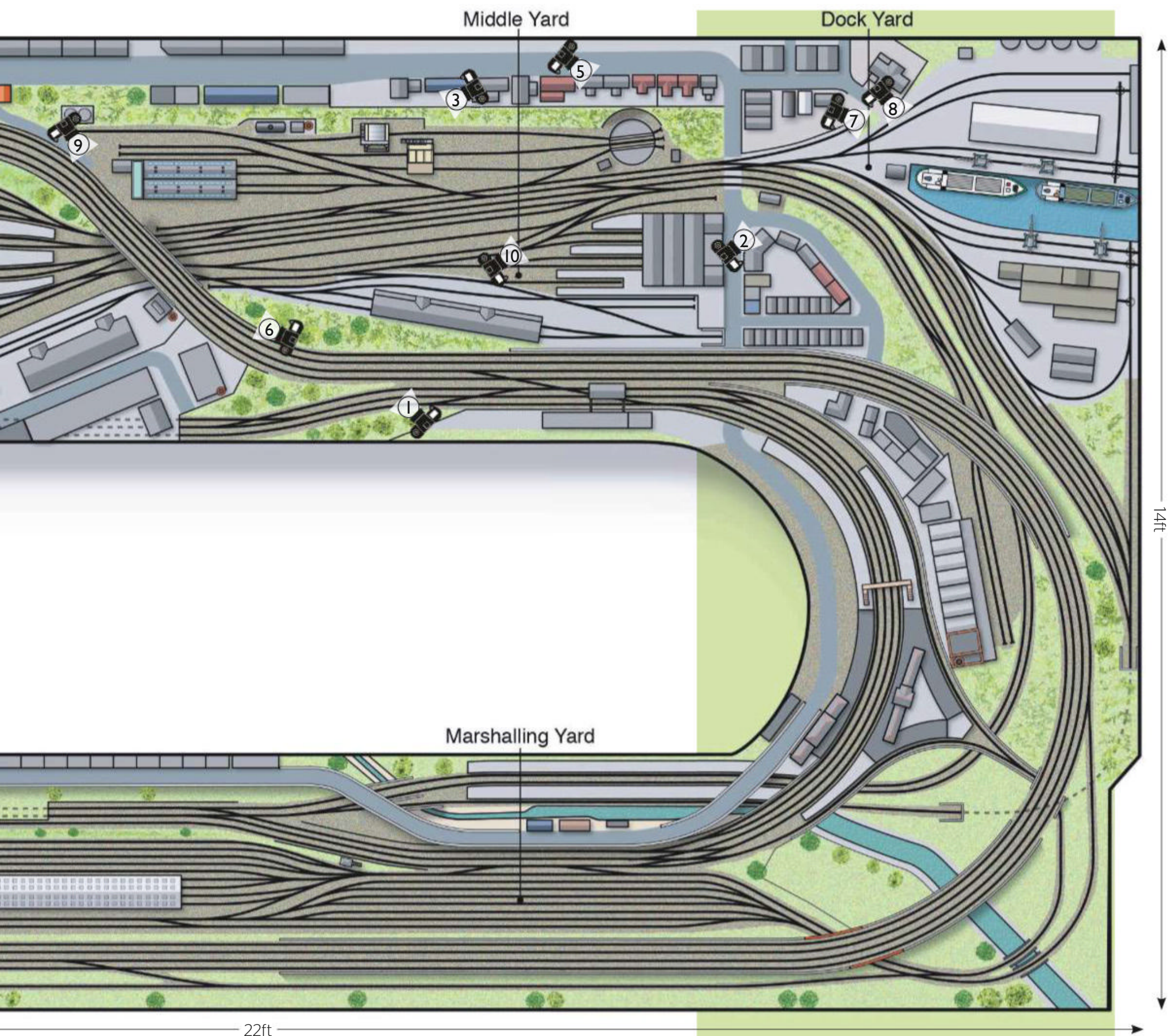
"While there may be many people who say the layout is big enough already, there are still some operational problems which I hope to address by extending it. The extension will provide more storage sidings and a second connection to the dock area. Ultimately, the plan is to allow access to the sidings from the outer slow line, a reversing loop and the dock so that it relieves some of the congestion on that area. So far I've laid the track and started the landscaping with the intention of having it finished between February and Easter. Hopefully, at that point I can hire a scout hall for the weekend so that myself and the rest of the operating team can all get together and have a run at setting the layout up as it will have been more than a year since we've done it, and it will give us some indication of the difficulty and time required."

Steve is hoping that while the layout is now bigger, ➤

Artwork: **Andrew Mackintosh**

Town Yard





FACTFILE: 'JAMES STREET'

Gauge and scale: 'N', 1:148

Size: 22ft by 14ft

MODELLER CV: STEVE WRIGHT

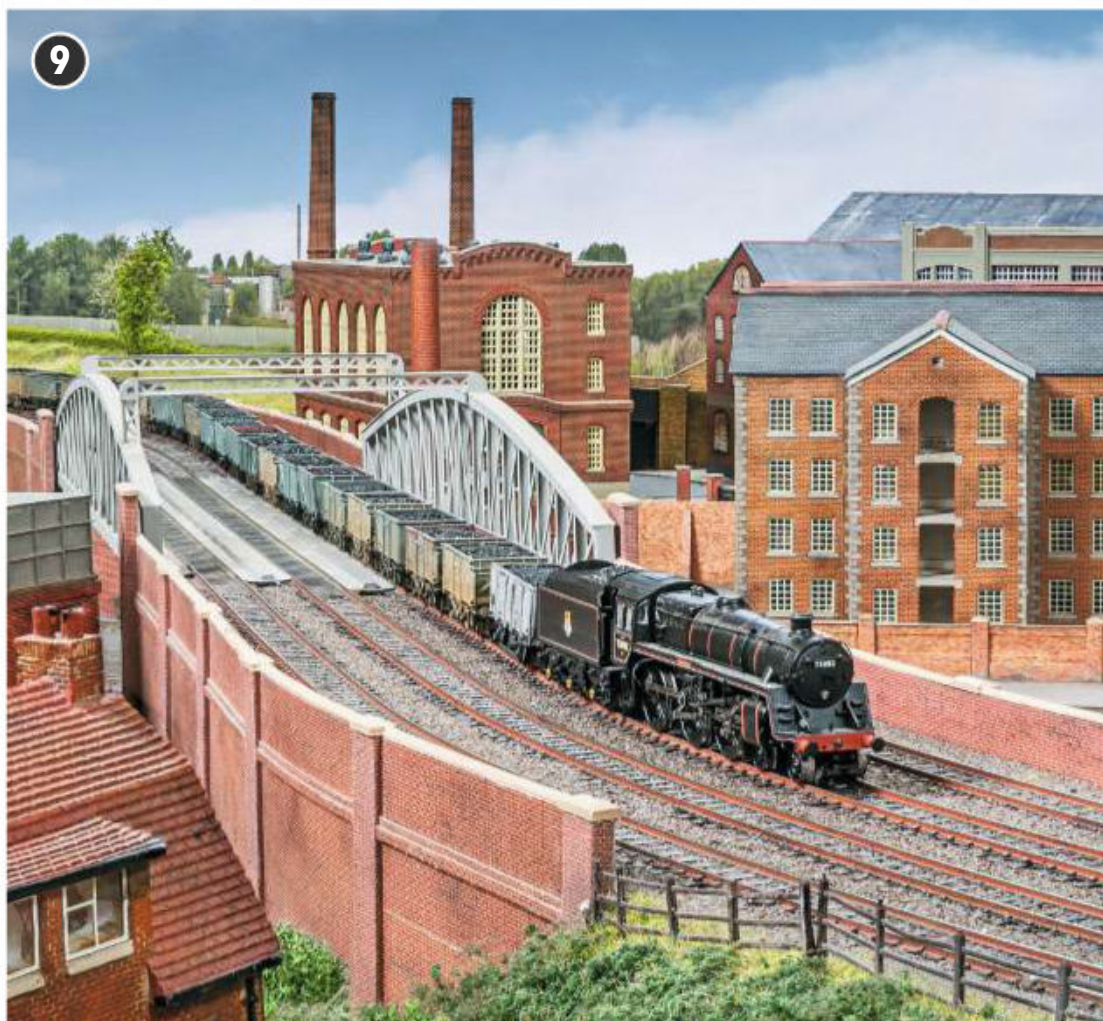
'James Street' takes up most of my garage, but in the area that isn't full of baseboard I've installed a Hi-Fi system, I just can't get to it at the moment!

'N' GAUGE LAYOUT **JAMES STREET**

a new design in the customised van for transporting it will make the overall job faster.

"We have always had a problem with the support frames as they were the first thing to go into the van, nestling in and around the wheel arches, and the last thing to come out. Unfortunately, this meant that the ten layout boards would have to come out first and be placed on the floor of the hall while we erected the frame, being very careful not to stand on the layout. Now though, I've designed a new frame that will go on top of the boards in the van, meaning it will be the first thing to come out and we can set the frame up before simply placing the boards on top. In theory, this will be a lot faster but we'll have to see, come February, if that's the case! In any event, it will be good to meet with the team again after so long and I must thank Stuart Atkins, Dave Cooper, Martyn Daw, Stuart Devereux, Dave Forbes, Jeff Gander and Nigel Stimpson for their help and support over the years."

Steve has been building for two decades and is still finding improvements and additions to make – proof that a layout is never truly finished! 'James Street' is one of those layouts in a similar league to 'Liverpool Lime Street'. It's one you just have to go and admire the next time it's at an exhibition. To keep up to date with the latest bookings and information about 'James Street', visit its website www.dwanddrc.wixsite.com/james-street 



10 As 'James Street' is such a complex layout a train might leave an operator's control and will not re-enter their jurisdiction again for another three hours.

hobby TRAX

A selection of our Hornby stock:

Locomotives:

R3631 BR H Class	£130.00
R3635 Early BR "Lord Rodney"	£153.00
R3656 Virgin Trains Class 87 "Sir Winston Churchill"	£149.99
R3661 D5509 BR Class 31	£155.00
R3677 LMS Coronation "Duchess of Hamilton"	£139.99
NEW R3679 Class W4 Pecket 0-4-0ST	£90.00
NEW R3757 Class 47/7 "Prince William"	£72.00
NEW R3759 Class 3031 "Achilles"	£81.00
R3772 Northern Rail Class 156	£114.99
R3802 LNER Class 43	£260.00
NEW R3811 Terrier 0-6-0T "Leadenhall"	£81.00

Gaugemaster

SPECIAL PRICE DCC01 Prodigy Express controller

SPECIAL PRICE DCC02 Prodigy Advance2 controller

DCC90 Ruby DCC 8 pin decoder	£16.49
DCC91 Ruby DCC 21 pin decoder	£16.95
DCC99 PowerPal capacitor for Ruby series	£16.95
DCC27 8 and 21 pin 4 function DCC decoders (each)	£18.00
DCC29 Omni direct 8 pin DCC decoder (each)	£20.00
Seep PM1 point motor with built in switch	£4.95
Seep PM2 point motor	£3.45

NEW RANGE Seuthe smoke generators

We can also fit these at the same time as our DCC fitting service (dependant on type of loco) Please call for advice and fitting prices.

No. 22E or 27E	£23.50
50ml smoke oil and dispenser	£8.50

NEW PRODUCT

Meet the Cobra Cable!

Building an exhibition layout? Then you need our Cobra Cable! Two terminal boards fit either side of a baseboard joint and our ingenious cable connects the two. Unlike off-the-shelf cables we make ours from 16/02 cable capable of carrying 3A per terminal meaning it can carry all your electrical signals across a baseboard joint including point motor wiring and DCC bus connections. When it's time to dismantle, simply unplug the cable at either end.

Comes as a complete kit with two easy wire terminal boards, 1m Cobra Cable and full instructions.

9 way £22.95 15 way £26.95 25 way £36.95

20% discount when you buy 3 or more together!



NEW PRODUCT

9 channel 12VDC switchable power distribution board

Our 12VDC power board allows you to connect many individual 12VDC items such as our LED modules, motors etc and group them so each group can be individually switched. **£16.95** 12V 2A power supply **£9.95** Switches from **£1.60** each



NEW PRODUCT

Warm white 12VDC LED modules

Our own design! These tiny 12V LED modules easily fit inside a building and create a warm white glow to simulate incandescent bulbs. Simply connect to any 12VDC supply.

Just **£2.99 each** or **£9.99 for a pack of 10**.

Also available in cool white.



NEW PRODUCT

Introducing The Tyson Capacitor Discharge Unit

Give your points some extra punch! Designed and made by Hobby Trax.

Standard version (2 capacitors) **£10.95**

Xtra version (4 capacitors) for larger layouts with multiple points switching simultaneously **£14.95**



Faller

Automated motorised vehicle system. Get the basic set and have a single vehicle running around a roadway on your layout. Expand the system to allow stop-start positions, parking, junctions and more!

Laser cut street starter set	£62.00
UK spec white van starter set	£99.95
Mercedes Benz white van starter set	£110.00
Expansion set for stop-start automation	£140.00
NEW Ford Transit Mk IV motorised vehicle	£109.95
NEW Tractor with trailer motorised vehicle	£149.95
NEW Battery charger for vehicles	£24.95



Linka - Full range of moulds on our website! £12.00ea
Moulds for brick, stone, timber or roof



Artprinters premium photo-realistic backgrounds £14.99

Massive range on our website

Cables - Massive stocks on our website!

Bk Bn Rd Or Yw Gn Bl Vi Gy Wt Pk	
Bi-colours available (7/02 only)	
Rd-Bl Rd-Bn Gy-Bl Wt-Rd Rd-Bk Yw-Bk	
Or-Bk Wt-Bk Gy-Bk Or-Rd Pk-Bk Yw-Gn	
Rd-Gn Vi-Rd Gn-Rd Yw-Rd Gn-Yw	
10m / 100m	
5/01 ultra-fine cable for wiring models etc	£3.95 / N/A
7/02 cable 1.4A for lighting	£1.40 / £7.99
7/02 bi-colour cable 1.4A	£1.40 / N/A
16/02 cable 3A for points & DCC	£2.10 / £14.99
24/02 cable 5A for longer runs	£2.70 / £19.99
32/02 cable 6A for even larger layouts!	£3.45 / N/A
6 core 7/02 cable	£3.75 / £24.99
12 core 7/02 cable	£6.45 / £42.99



NEW Roll end remnants! Due to the volume of cable we sell we have a lot of roll ends, so we are offering them to you in a bulk pack. Each pack will contain at least 10 lengths of different cable each between 5m and 9m. Colours and sizes will vary by pack but will usually include 7/02 and 16/02. You will be getting at least 50m of cable for a fantastic price! **£4.99**

Electronic components

9 pin D plug, socket or cover (each)	£0.60
15 pin D plug, socket or cover (each)	£0.70
25 pin D plug socket or cover (each)	£0.80
12 way screw terminal block (3A or 5A)	£0.85 / £0.95
12 way 6A screw terminal plug and socket	£6.95
Toggle switch ON-ON (SPDT / DPDT)	£1.60 / £1.99
Toggle switch (ON)-OFF-(ON) (SPDT / DPDT)	£1.99 / £2.10
Toggle switch ON-OFF-ON (SPDT / DPDT)	£1.99 / £2.10
Coloured caps for toggle switches (5 pack)	£0.75
Push to make button (various colours)	£0.49



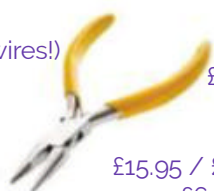
Hobby Trax own brand products

Peco point motor extension pins (10pk)	£9.99
12V 5mm LED kits (10 pack) RD, GN or YW	£4.99
12V 3mm LED kits (10 pack) cool white	£5.99
500g plaster of paris	£2.49



General tools

Wire glue (it's conductive glue for wires!)	£6.49
Stanley FatMax wire strippers	£19.95
Flux pen	£4.99
Solid flux pot	£2.99
Xuron track cutter normal/in-situ	£15.95 / £17.95
Cutters and pliers	£6.95 ea
High quality box joint construction and PVC handles	
Tweezers - always handy!	From £3.00 ea



Shop opening soon near Oban, Scotland!

Join our mailing list for fantastic opening offers!

"Want to know the Seuthe? Our prices are smokin' hot!"

REPAIR SERVICE

We now offer a repair service for any railway related electronic item. Search for "Repair Service" on our website. If we can't fix it, there's no extra charge!

DECODER FITTING

We can now fit DCC decoders to your own 00 gauge locomotives! Book your fitting service online for a fixed price of just £32.99 including a top quality Gaugemaster decoder and return postage! Add a PowerPal stay-alive capacitor for just £16.95.

We can now fit Seuthe smoke generators too! (Dependant on loco type)

LOWER POSTAGE

Up to £25 - £2.50
£25.01-£50 - £5.00
Over £50 post free



And many more!!

Secure online ordering

-

Technical advice

-

Free postage over £50

-

No Highlands and Islands surcharge!



www.hobbytrax.co.uk 0345 065 4472

dapol

model railway company

Dapol Limited, Gledrid Industrial Park, Chirk, Wrexham, LL14 5DG

Tel: 01691 774455
Fax: 01691 778866
e-mail: sales@dapol.co.uk
www.dapol.co.uk

Coming soon...

Class 122



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

DCC and DCC & Sound Versions also available

Conflat & Container



7F-037-001 - GWR Conflat 39860 BD2
Chocolate Container B-2020 Door to Door

7F-037-003 - GWR Conflat 39326 BK2
Chocolate Container BK-1829 Furniture Removal



7F-037-004 - BR Conflat A B735200 BD
Bauxite Container 465778 Door to Door

7F-037-006 - BR Conflat A B735819 BD
Crimson Container 73581 British Railways



- 7F-037-002** - GWR Conflat 39612 BD2 Chocolate Container B-1788 Door to Door
7F-037-005 - BR Conflat A B735364 BD Bauxite Container 473248 Door to Door
7F-037-100 - GWR Conflat 36692 12 Tons Tare 6-1
7F-037-101 - GWR Conflat 36508 Non Vacuum H9
7F-037-102 - BR Conflat A B735201 13 Tons Tare 6.13
7F-037-103 - BR Conflat A B735233 13 Tons Tare 6-0

2-6-0 Mogul



4S-043-001 - 2-6-0 Mogul 6336 Green Great Western



4S-043-002 - 2-6-0 Mogul 6385 Green GW Shirtbutton



4S-043-004 - 2-6-0 Mogul 6324 Black Early Crest ERA 4



4S-043-006 - 2-6-0 Mogul 7310 Lined Green Late Crest ERA 5

- 4S-043-003** - 2-6-0 Mogul GWR Green & BR Smoke Box Number Plate
4S-043-005 - 2-6-0 Mogul 6364 Green Early Crest ERA 5

DCC and DCC & Sound Versions also available

Photographs are of the initial decorated samples and improvements and corrections have been made where necessary.

Wainwright D

Visit www.dapol.co.uk to pre order now



In Partnership with



LOCOMOTION MODELS

4F-015-015 - Fruit MexGWR 38215

4F-015-016 - Fruit MexGWR 38215
Weathered

4F-028-005 - 45 Ft C'tnr Curtain Sided
Less C02 45004-3 + 450002-2

4F-028-006 - 45 Ft C'tnr Curtain Sided
Less C02 45004-3 + 450002-2
Weathered

7F-017-005 - Lime Van - ICI L24 Red

7F-017-005W - Lime Van - ICI L24 Red
Weathered

7F-018-012 - Salt Van - Saxa Salt 252

7F-018-012W - Salt Van - Saxa Salt 252
Weathered

Product Scale Key

O Gauge

OO Gauge

N Gauge

All product release dates correct at time of going to press

dapol

15% DISCOUNT ON ALL DAPOL PRODUCTS PURCHASED THROUGH DAPOL

collectors

ANNUAL OPEN DAY

4 NEWSLETTERS PER YEAR

ONLY £25 PER YEAR
(Plus p&p)

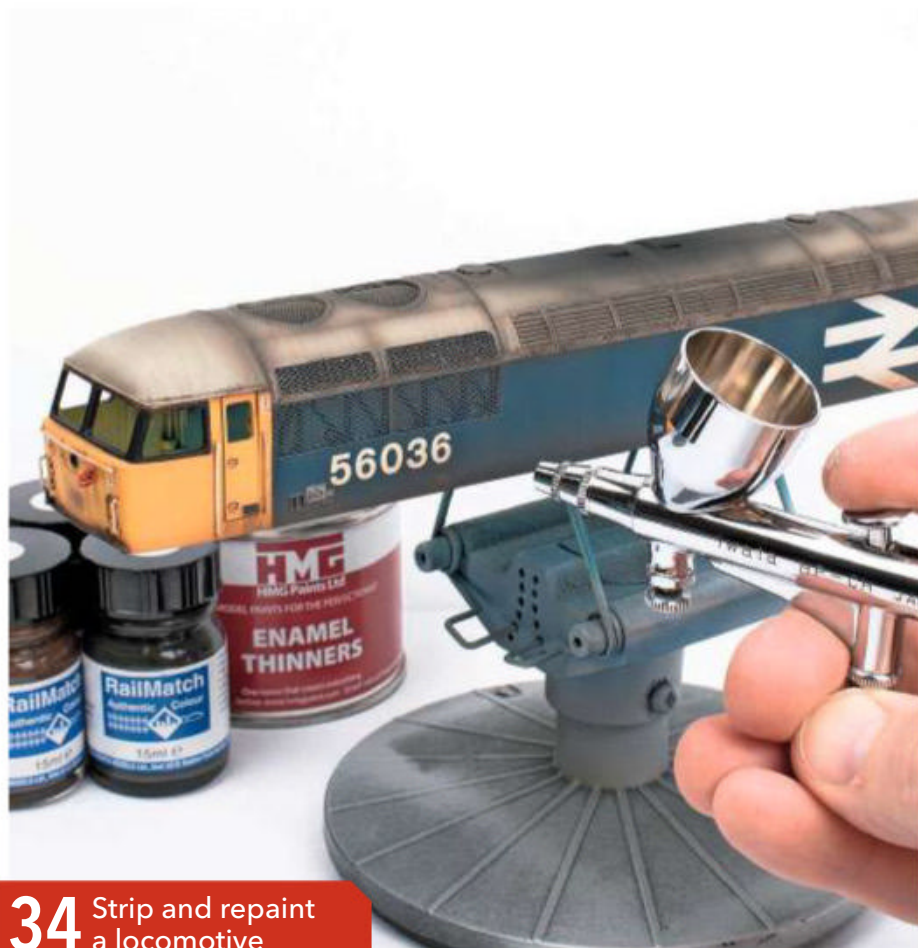
club

IN GAUGES 'N' 'OO' & 'O'

FOR MORE INFORMATION CONTACT YOLANDA / 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



34 Strip and repaint a locomotive



38 Create rust effects with the real thing

Workbench

16 pages of projects, advice and top tips that show you how



40 Distress your rolling stock



44 Make your own trees



48 Build a simple level crossing

Meet the *Model Rail* Expert Modellers



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



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



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



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

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



HOW TO

STRIP AND REPAINT A DIESEL LOCOMOTIVE

Better late than never: **George Dent** has waited years to finish repainting this Hornby model. Here, he shows you how it was done.

I'm sure I'm not the only modeller who has a number of part-finished projects cluttering up the hobby room. It must be a good five years since I started to strip-down this Hornby Class 56, with a view to repainting it into 'large logo' BR blue, a livery that Hornby has rarely offered, despite it being popular with 'Grid' fans.

To add to the rarity value, I thought I'd treat an early Class 56 to the scheme, as only a handful of them received the wraparound yellow cabs and grey roof. It would certainly make for an interesting addition to my Type 5 fleet. My reasoning for the project was sound enough but, having stripped the bodyshell back to bare plastic, progress ground to a halt and I forgot all about it...

...Until July, when a move to a new workshop prompted me to open some long-sealed boxes and the '56' was the first model that



popped out. That was clearly a sign: the cosmos was telling me to get it finished!

STARTING FROM SCRATCH

It isn't always necessary to strip a RTR model back to bare plastic before repainting it, but it does have many benefits. The donor model wore the 'red stripe' Railfreight scheme and, when running one's fingertips over the body, pronounced ridges could be felt where the BR logos and solebar stripe had been tam-po-printed in the factory. At the very least, the surfaces would have to be flattened with abrasives before repainting, but this can be labour-intensive and runs the risk of diminishing the subtle moulded surface detail.

In contrast, bathing the bodyshell in a tray of model paint stripper may be a mildly unpleasant task, but it's a lot kinder to the moulded detail. Phoenix Paints' Superstrip is my choice of stripper, as it can be reused indefinitely and is highly effective, while being safe for use on plastics. The shell does need to be relieved of its glazing and lighting units, as well as smaller, fragile detail fittings such as handrails, lamp brackets, wipers and jumper cables.

The Superstrip will usually loosen factory finishes within eight to 12 hours. A vigorous scrub with an old toothbrush will help to shift any stubborn deposits which tend to linger around grilles and recesses. It's important to wear gloves and eye protection when working with paint strippers and to protect the work surface with plenty of newspaper. Washing the model with household detergent and



What you will need

MATERIALS

- ◆ Superstrip paint stripper
Availability: Phoenix Paints
Tel: 01268 730549
Web: www.phoenix-paints.co.uk
- ◆ Tamiya masking tapes and pointed cotton swabs, Mr Hobby aerosol primers and clear coats, MIG Productions enamel washes and thinners, Evergreen styrene tube
Availability: Scale Model Shop
Tel: 01422 405040
Web: www.scalemodelshop.co.uk
- ◆ LifeColor acrylic paints, Wilder liquid mask, masking tapes, airbrushes and equipment
Availability: The Airbrush Company
Tel: 01903 767800
Web: www.airbrushes.com
- ◆ Decals, RailMatch paints and thinners
Availability: Fox Transfers
Tel: 0116 319 4950
Web: www.fox-transfers.co.uk

TOOLS

- ◆ Knife
- ◆ Tweezers
- ◆ Straightedge
- ◆ Old toothbrush
- ◆ Old, deep baking tray
- ◆ Tapered reamers
- ◆ Paintbrushes
- ◆ Cotton swabs
- ◆ Airbrush and equipment

rinsing in plenty of clean water will remove any lingering traces of the chemical, leaving a bare plastic bodyshell; a blank canvas for us to work on.

I hadn't planned on adding any extra details to this model, although there are plenty of options available from the Shawplan/Extreme Etchings range (www.shawplan.com). However, I did need to alter the central box-type headlights to match my chosen prototype, which sported the 'rubber grommet' type of bezels. Having removed the boxes - simply pulling them away with pliers - I cut two short lengths of 2.4mm diameter plastic tube and fixed them in position.

They were purposely cut over-length and, once the liquid poly cement had cured, the tube was pared back almost flush to the surface with a fresh scalpel blade. The tube's internal diameter was then reamed out slightly to allow the fibre optic light lens to be refitted (although it wouldn't be installed properly until the paint job was complete).

A great sense of satisfaction always comes when a project is finally completed, especially after a long delay. This Class 56 is now a treasured addition to my 1980s-era 'OO' traction fleet and, as I regard it on my desk, it has brought back some happy youthful memories.

STEP BY STEP


1

Having separated the body from the chassis, the glazing, lighting units, handrails, cab interiors and small detail fittings need to be removed before the bodyshell is stripped. Most of the parts can be dislodged with gentle pressure.


2

The body was soaked overnight in Phoenix Precision's Superstrip fluid, decanted into an old baking tray. After scrubbing with an old toothbrush, the shell was washed thoroughly in soapy water, rinsed and allowed to dry.


3

Inevitably, traces of the old paint may still be trapped within some of the detail. This needs to be removed, or there's a chance it will spoil the new paintwork. Clear the holes with suitable drill bits or miniature tapered reamers.


4

The Superstrip may also leave the bare plastic feeling a little rough in places, but we can polish it smooth with ultra-fine abrasive sheets. Use them wet and work from 4,000 to 12,000grit, taking care not to damage the surface relief.


5

After further washing, rinsing and drying, the shell can be primed with a good quality aerosol primer. Any remaining imperfections will be revealed and, once cured, the surfaces can be abraded if necessary.


6

When happy that the surfaces are perfectly smooth, the topcoats can be applied. I started with the yellow, airbrushing LifeColor's BR Warning Panel Yellow (later shade), reducing it slightly with LifeColor's acrylic thinners.


7

The colour needs to be built up gradually, over many light coats, applied a few minutes apart. After an overnight rest, the rough areas of overspray will need rubbing down with the fine abrasives, lubricated with water.


8

The blue livery elements were next, so I masked up the cabs and roof. I prefer vinyl tapes for masking between colours as they produce a cleaner edge. Masking fluid seals any gaps between the layers of tape.



9

LifeColor's acrylic Rail blue was also built up in very light coats, thinning it slightly to help it flow through the airbrush. LifeColor paints are also great for hand application, although they require a few coats to achieve full opacity.



10

The masking was removed and replaced with fresh layers of tape. Again, flexible vinyl tape (Tamiya) formed the demarcations of colour, with cloth-backed tape filling in the gaps. A ruler helped keep the tape straight.



11

LifeColor BR Rail grey was airbrushed over the roof, allowing the colour to build up gradually. LifeColor's rail paints dry to a pleasing satin finish and, being water-based, give off little odour and are easily cleaned up.



12

Remove the masking only when the paint is completely dry. The black windscreen bands were hand-painted, along with the lower bufferbeam cowlings, handrails, grilles, door handles and other small details.



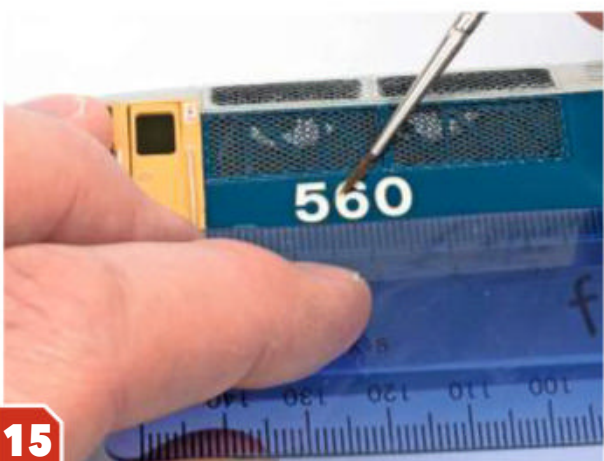
13

A high-gloss clear coat followed, providing the perfect base for the decals. Mr Hobby's UV Cut gloss produces a superb, even finish. However, it's not suitable for use over decals, as it may damage them.



14

Allow a few days for the gloss coat to cure before handling. Fox Transfers supplied the livery elements and the individual TOPS digits were applied, starting with the central character - in this case the zero.



15

When the zero had dried, the other digits were applied on either side, ensuring that they were level and equally spaced. Keep the surface damp for easy adjustment - a swab can absorb excess water and allow the decal to settle.



16

The final two digits then finished the job. Check your prototype to see if there was a slightly larger gap between the first two digits and the rest of the number. In 56036's case, all five characters appeared to be equally spaced.



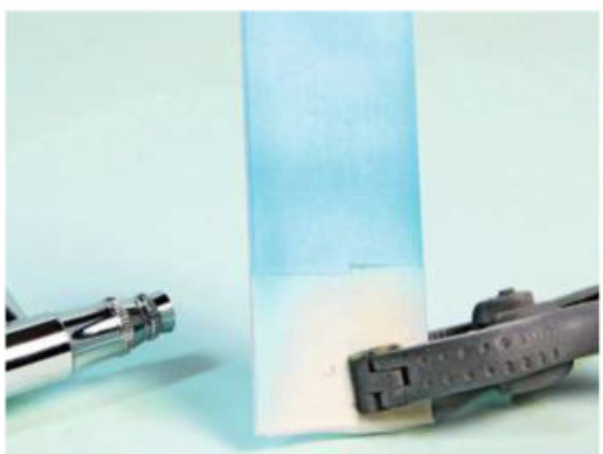
17

After adding the rest of the decals, they were left to dry before being sealed with another clear coat. I used Mr Hobby's Premium Semi-Gloss Topcoat spray. Always wear a facemask and work in a well-ventilated area.

Spraying acrylics

In order to make my workshop a less noisome place, I'm using acrylic paints much more in my airbrushing setup, including for livery application. I'm a fan of LifeColor's acrylic range of British Railways livery shades, especially those catering for the BR blue era. These water-based paints are great for applying by hand, as well as for airbrushing, although their thin nature means that several coats of each colour is required.

That might sound like a negative factor, but I prefer it that way, as it means that the paints flow freely and there's less risk of obliterating surface relief with a heavy layer of paint. The best paint finishes always come



When airbrushing water-based acrylic paints, always begin with an ultra-fine 'tack coat'.

as a result of the patient assembly of individual layers, with the surfaces being prepared carefully beforehand. Acrylics behave slightly differently to enamels when spraying, as the initial coat must be gossamer-thin - what I call a 'tack coat'.

This acts as a bridge between the primed surface and the water-based paint. It takes a little practice but, with this thin mist of colour applied and allowed to turn tacky for a few minutes, subsequent layers of paint will adhere more effectively. Continuing to spray light coats will gradually build the colour and produce a much more consistent finish.

**18**

The weathering process began with enamel washes. MIG Productions' Brown Wash was brushed over the bodysides, using cotton swabs to remove most of the fluid. A little enamel thinners help create subtle streaking.

**19**

The ends were treated in a similar fashion, but Tamiya's pointed swabs were used to refine the streaking effects and maintain a subtle overall appearance. Cab fronts were generally kept fairly clean in service.

**20**

MIG's Dark Wash was applied to the roof, with swabs used to remove excess and create streaking. Side-to-side motions mimicked gravity-induced streaking, while the dark pigment was left within the grilles and louvers.

**21**

When the wash coats had dried, the weathering was refined with an airbrush and RailMatch enamels. Frame Dirt was misted along the lower edges, while Roof Dirt and Weathered Black was applied to the upper surfaces.

**22**

The underframe was airbrushed with a mix of Frame Dirt and Weathered Black. The radiator fans and cab interiors were also treated to a misting of 'dirty' shades. When dry, the wheels and contacts were carefully cleaned.



George's rendition of 56036 depicts the locomotive in early 1980s condition, prior to the roll-out of orange cant rail stripes and red diamond coupling code decals.

Used in combination with weathering powders, the Scenic Rust treatment has produced convincing results.



HOW TO

CREATE RUST EFFECTS... WITH THE REAL THING!

Authentic materials produce authentic results, so **George Dent** decided to try a pack of the new and improved Scenic Rust weathering medium.

Replicating the complex tones and textures of corroded metal is possible with paint and dry pigments, as we'll see on page 40. However, why not use the real thing to portray rust? After all, it's about as realistic as you can get!

Thanks to Deluxe Materials' Scenic Rust, it's possible to cover any surface in an authentic layer of corroded metal. Supplied as a complete project pack, the box contains a jar of super-fine metallic powder. This ferrous powder can be mixed with the supplied binder fluid to create a paste, which is then applied to a model's surface. When the binder has dried, a developing fluid can be

applied, which causes the metal particles to corrode, exactly as steel and other ferrous metals would in real life.

The material has countless potential uses, from weathering rolling stock and scenic features, to creating Barry-style locomotive hulks or scrap cars. There's also plenty of scope for experimentation and, for this demonstration, I varied the application method slightly, in the hope of creating more subtle effects to this mineral wagon.

Deluxe's Scenic Rust has been around for a while, but this latest version features a much finer grade of powdered metal particles, allowing more subtle corrosion effects to be created, especially on small scale models.

Keep it clean

It's important to note that the fine metallic particles need to be handled carefully, cleaning up any spillage and keeping them well away from any electrical and mechanical components, especially motors and wheels, lest they cause short circuits or mechanical wear. Once they've been fixed to the model with the binding agent, however, they're perfectly safe. Accordingly, I removed the wagon's wheels at the outset and cleaned the axle bearing holes thoroughly before replacing them.



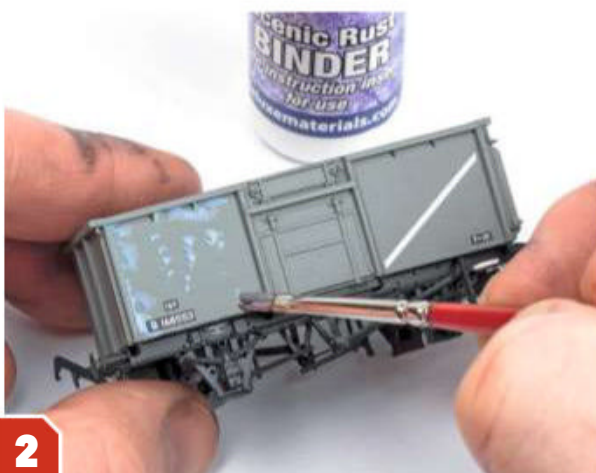


STEP BY STEP



1

Deluxe Materials' Scenic Rust pack contains an adhesive, a jar of super-fine metallic powder, a chemical developing agent, mixing bowl, spatula and a pipette. There's enough material to treat a large fleet of wagons.



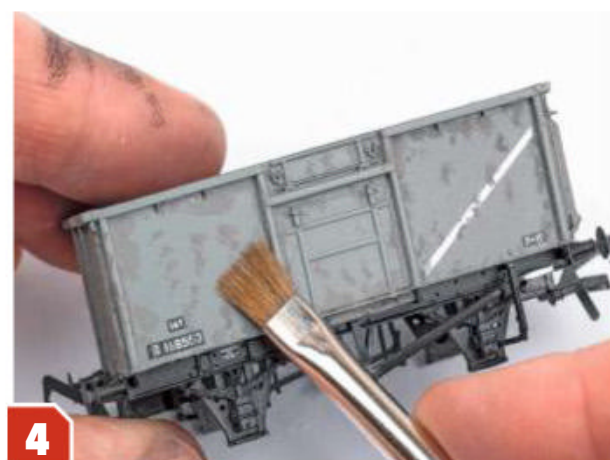
2

The instructions suggest mixing the metal powder with the binder fluid to create a paste. However, I brushed some thin, random deposits of the sticky binder fluid onto the wagon's bodyshell, working on one side at a time.



3

The binder turns tacky within minutes and the fine metallic powder was sprinkled on top. I removed the wheels to ensure none of the powder got stuck in the axle bearing holes - they can be cleaned out easily afterwards.



4

After working my way around the four sides of the wagon, I left it to dry. A brush then cleared away any loose powder from the body and the chassis. It's vital that dust is kept away from any electrical components or mechanisms.



5

With a clean brush, the developer agent was brushed over the metal powder deposits. Set the model aside overnight for the rust to appear. Be sure to wash your hands and protect your eyes from splashes.



6

The next morning the metallic powder had begun to corrode. I repeated the process, covering the interior with the binding fluid, sprinkling on the powder and, when the glue was dry, the developer was brushed on top.



7

The higher concentration of metal powder and a more liberal application of the developer led to a coarser texture and a more severely corroded effect, which was perfect for the interior.



8

Although not essential, I gave the bodywork and chassis a light coat of matt varnish to seal the rust effects and to provide a perfect base for subsequent layers of weathering powders, as these cling more readily to a matt surface.

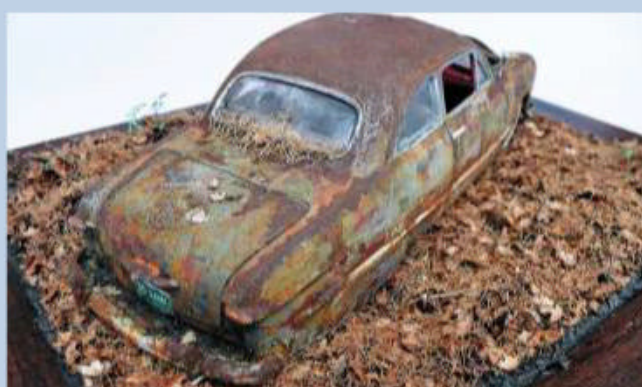


9

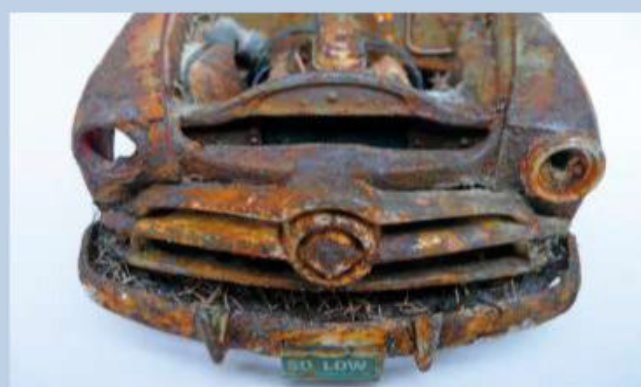
Dirty brown and dark grey weathering powders were brushed lightly over the exterior and interior, using downward strokes to create streaking effects. The dry pigments produced a cohesive overall finish.

Away from the tracks

Scenic Rust is also useful for creating eye-catching scenic features, such as corroded steel roofs or shuttering, bridge girders or water tanks. Piles of scrap metal in yards, skips or wagon loads can also be treated. Or why not add an abandoned car or tractor to a farmyard scene, distressing a die-cast model or plastic kit and partly covering it in vegetation? Andy Argent did just that, using a 1:24 scale Ford Coupé kit.



The corrosion developed overnight, creating a highly realistic appearance. After a little extra weathering, the car was 'abandoned' into a scenic diorama.



By varying the thickness of the Scenic Rust deposits, an authentic array of tones and textures can be created. ANDY ARGENT (2)

Corrosion, emerging from beneath the paintwork, together with bulging body panels, gives this 'O' gauge wagon a realistic, careworn appearance.



HOW TO

DISTRESS YOUR COAL WAGONS

George Dent reveals a fragrant and therapeutic technique for recreating battered and rusty steel-bodied wagons.

When my wife first detected the smell of hairspray wafting from my workshop, she was perplexed, especially as it's some years since I had long, flowing locks. Alas, there wasn't anything extraordinary going on, just another bout of wagon weathering!

I'd seen hairspray being employed in various military and aviation modelling magazines and I was curious to see if it could be translated to model railway subjects. This was well over a decade ago and, since then, I've used it for all manner of rolling stock and scenic weathering tasks.

But what role does hairspray have in the weathering process? Put simply, it's a very simple and effective masking medium, which can be activated with water to produce subtle and random paint chipping effects. By applying a base layer of 'rust' underneath the

ANY
GAUGE



2hrs



topcoat colours, we can use the hairspray to allow the corrosion to emerge through the peeling paintwork. This looks far more realistic than when applying rust deposits atop the livery colours and, thanks to the randomness of the hairspray masking, no two wagons will look the same.

While the finished results can look remarkable, it's a deceptively simple process and there's no need for any fancy tools or materials, just a handful of acrylic paints, dry pigments, paintbrushes and a can of extra-hold hairspray. Couple this approach with a degree of physical distressing and we can add some very shabby and careworn freight vehicles to our collection.

The humble 16ton mineral wagon is an ideal candidate for this treatment. The physical distressing element of this technique is better suited to plastic wagon kits rather than RTR stock, as the body panels can be treated individually prior to assembly. Gently pummeling the inside faces with a hammer and a flat-headed punch will cause the plastic to bulge and distort, replicating how the real wagons eventually appeared after years of rough loading at collieries or quarries. Tap, tap, tapping away with a hammer can be therapeutic, taking out one's frustrations on the helpless plastic components, although we do need to exercise a degree of restraint lest the parts be damaged excessively.

An alternative or complementary means of adding texture to the bodywork is to



What you will need

SHOPPING LIST

- ◆ Mr Surfacer 500, Evergreen styrene angle strip (Ref.296)
Availability: Scale Model Shop
Tel: 01422 405040
Web: www.scalemodelshop.co.uk
- ◆ LifeColor acrylic paints and dry pigments Availability: The Airbrush Company
Tel: 01903 767800
Web: www.airbrushes.com

TOOLS

- ◆ Hammer
- ◆ Flat steel punch
- ◆ Files
- ◆ Abrasives
- ◆ Paintbrushes
- ◆ Knife
- ◆ Setsquare
- ◆ Straightedge
- ◆ Hairspray



TOP TIP

ADDING NUMBERS

On such a shabby wagon, pristine number panels can look out of place, so I prefer to apply them by hand using a Rotring draughtsman's pen, loaded with white ink. Black panels are painted on beforehand and the less-than-perfect markings suggest that they've been applied 'in the field' at some point, perhaps during minor repairs.

If you'd prefer to add transfers, sheets of waterslide decals can be distressed with a razor blade before they're soaked in water. Remember that they'll need to be applied over a gloss surface, before being sealed with a further clear coat.

stipple the surface with liquid poly cement and a stiff brush. Once the plastic has hardened and been painted, any 'rust' deposits will look much more authentic.

The techniques illustrated here are equally applicable to plastic wagon kits in any scale. All we need to do is tailor the amount of surface texture to suit the size of the wagon. The physical distressing is harder to perform on RTR wagons, due to the difficulty in accessing the interiors and the thicker plastic bodysells, although liquid poly can still provide a means of texturing the surface as a prelude to a weathering and repainting job.

Why not have a go for yourself and see what amazing effects can be created? Your workspace might end up smelling like a school disco from the 1980s, but I can guarantee that you'll have some fun!

STEP BY STEP



1

A bonus of building plastic wagon kits is the ability to customise the bodywork before assembly. This Parkside 7mm scale kit is the perfect guinea pig for a distressing job, which will take away the perfectly smooth texture of the plastic parts.



2

A flat-topped steel punch, length of steel rod, or anything similar that doesn't have a sharp point, is required, along with a hammer and a hard surface on which to work. A piece of wood will suffice, although I found this mini anvil perfect for the job.



3

A scrap of thin card and brown paper was taped over the anvil to provide a degree of absorption from the blows, thus protecting the plastic from being damaged excessively. This wouldn't be necessary if you're working on a wood surface.



4

A very light tapping action is all that's required, working on the inside face of the body panel and moving the punch before each blow. A smaller punch will produce more lifelike dents in the surface, redolent of lumps of coal or stone.



5

I concentrated most of the punchwork around the lower edges of the side panels, working between the external stanchions and door frames. The plastic will soon start to bow and distort - and might even crack - but don't be alarmed.



6

Repeat the process on both sides and ends, until the effects appear consistent across the whole bodysell. If the parts are overly distorted, soak them in a bowl of hot water for a few minutes before reshaping them with your fingers.



7

The ball end of a ballpeen hammer can also be employed to add further bulging and this can also even out any irregularities from the punch's tip. Again, very gentle pressure is all that's required to alter the profile of the plastic.



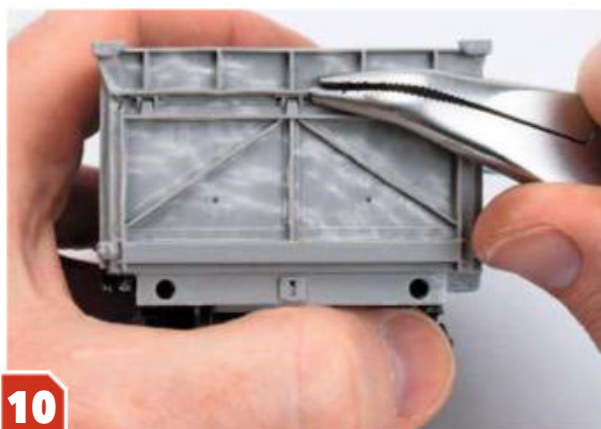
8

A convincing, corroded surface texture can be achieved by stippling the plastic with a stiff brush dipped in liquid poly cement. This also helps to even out the punched bulges. Allow each part to harden before handling and treat the interior faces too.



9

The smooth edges of the exterior framework can be scuffed up with the edge of a coarse, flat file. Don't go overboard here, our aim is to just remove the perfectly square, straight edges which will look incongruous alongside the distressed panels.



10

Further distressing of the slender framework elements can be carried out with a set of pliers. Again, subtlety is key, so twist the plastic ribs just enough to introduce a subtle degree of distortion.



11

Assembly can now get under way and it's essential to get the underframe built squarely, so the distorted bodywork will have to wait. Build the chassis around the floor and check carefully that the axles are aligned correctly and can rotate freely.



12

Allow the chassis to harden before adding the bodywork, one section at a time starting with one of the ends. There are likely to be gaps between the misshapen parts, so concentrate on getting them 'tacked' into position for now.



13

Lengths of Evergreen styrene angle were employed as internal strengthening brackets, helping the sides and ends bond to each other and the floor. A thicker grade of poly cement was needed, so I used Deluxe's Plastic Kit Glue.



14

Extra shims of thin plastic sheet were inserted where necessary and, after double-checking that the body was correctly aligned and the chassis still ran freely, it was set aside to cure. The inner reinforcements will be hidden once the wagon is loaded with coal.



15

Inevitably, gaps will need to be filled, especially at the corners, internally and externally. Solvent-based plastic fillers can be manipulated and smoothed before they cure with liquid poly, reducing the need for sanding later.



16

Rather than spray primer via an aerosol, Mr Surfacer 500 was brushed over the surface with an old flat brush. A stippling action imparted a useful texture and avoided creating visible brushstrokes. Clean your brush with cellulose thinners.



17

Mr Surfacer can be painted over within a couple of hours and I mixed a variety of rusty red, brown and dark grey LifeColor acrylics on a palette, combined with some rust-coloured dry pigment for added texture.



18

The initial layer of paint and pigment was stippled on roughly, covering the body inside and out. When this was dry, further paint shades followed (minus the dry pigment), again stippled with a flat brush, to introduce a random array of shades.



19

Once completely dry, a few light coats of extra-hold hairspray were misted over the entire bodyshell and allowed to dry for a few minutes. Work in a well-ventilated area and avoid breathing in the hairspray vapour.



20

A topcoat coat of acrylic paint was then applied to the exterior only. I used an airbrush, but it could also be applied by hand brush. It's important to use acrylic paint, though. The technique will not work with enamel paints.



To prove that this method can be employed in any scale, George has also trialled it on his 'N' gauge fleet of coal wagons!

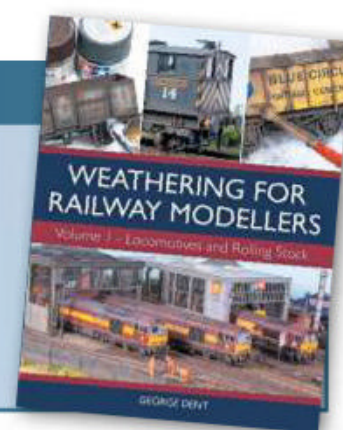
Tales of rust

George shares a vast array of weathering tips and tricks for rolling stock and locomotives in his book *Weathering for Railway Modellers, Volume 1*.

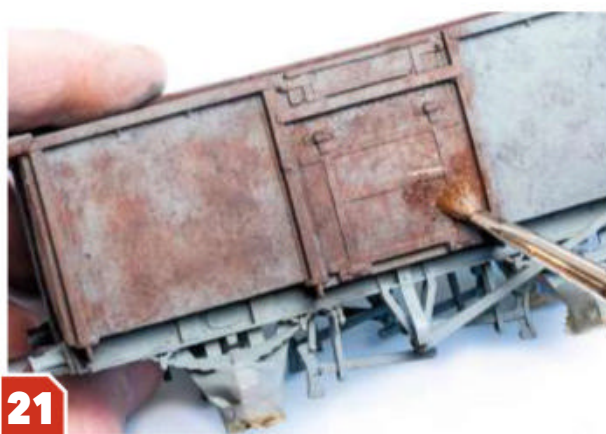
Availability: Crowood Press

Tel: 01672 520320

Web: www.crowood.com



Physically distressing the bodywork and employing hairspray to achieve random chipping effects are two easy ways to bring your wagons to life.



21

Give the paint about 10 minutes to dry - just enough to permit handling. Then, using a brush dipped in clean water, start dabbing the surface to loosen the hairspray beneath the topcoat. This, in turn, reveals the 'rust' beneath.



22

As much or as little of the topcoat can be removed, depending on how much water is applied and how firmly the surface is treated. When you're happy, dab away excess moisture and leave aside to dry before sealing the effects with a coat of matt varnish.



23

After painting the underframe, number panels and other markings can be added before a generic weathering job is applied, using dry pigments and/or paints. The rough surface texture will allow dry pigments, in particular, to cling to the surface readily.

HOW TO

MAKE YOUR OWN TREES

Peter Marriott was pining for a unique model tree on his layout... here's how he made his own out of wire.

The Scots pine has been one of my favourite trees ever since I was a boy and used to visit Clent Hills near Halesowen. The clumps of Scots pines on the tops of the hills always looked most impressive.

As many of you will know, the range of off-the-shelf trees you can buy is vast, and it's complemented by an equally large range of kits. So imagine my surprise when I found that there are very few models of the Scots pine available. That's when I decided to try to make my own.

Did you know that the Scots pine - or *pinus sylvestris* - to give it its Latin name, is one of only three conifer tree species native to the British Isles? The others are the yew and juniper,



but they're the only native conifer tree to be grown commercially for timber in the UK.

Scots pine trees have a long, conical trunk which spreads into a broad domed crown of branches and foliage. The branches are usually short and grow directly outwards from the trunk. The trees can grow up to 36 metres tall and up to 1.5 metres around the trunk.

Scots pine trees formed large areas of UK forests, particularly in the North of England and in Scotland until 8,000 years ago. The oldest known Scots pine blew down at Inveraray in 1951 and was thought to be over 330 years old. Only



All visitors must report to the depot Manager



remnants of the original forests exist as many were burnt for fuel, cleared for farming or overgrazed by sheep and deer. However, they still provide a valuable home for endangered native species such as red squirrels, Scottish wildcats and capercaillie.

The tree's shape is distinctive with tall trunks with most of the foliage towards the top of the tree. Where the soil is poorer a Scots pine may take on a shorter, squashed and weather-beaten look.

Young trees have grey/green bark, but as the tree grows older the upper bark turns orange or reddish and develops fissures.

The leaves of the trees are long, thin blue/green needles that grow in pairs. The cones are egg-shaped with a point. They have woody scales that protect the seeds inside. In autumn the cones turn brown.

The roots develop either as deep taproots or as a shallow root system, which means that they can thrive in poor dry soils and at higher elevations. These qualities have led to the planting of big plantations in the drier south-eastern parts of England, such as Thetford Forest and the New Forest. The trees are popular for planting on open and poor industrial sites because they can survive on poor soils.

The timber from Scots pine trees is known as 'redwood' or 'red deal'. It is easy to work with and is a reasonably strong timber that is light in weight. When treated with preservatives it is durable outside. It is used in many parts of the home including roof timbers, stairs, doorways and skirting. It looks attractive, making it popular for furniture.

Scots pine trees are also used to make

telegraph poles, fences and paper pulp. It is still used in some parts of the country for pit props in mines. In addition, it is used as solid wood flooring, post and beam buildings, log buildings, acoustic barriers, garden and landscaping products, playground equipment and as cladding.

In days gone by, timber from Scots pines was used to make ships, ship masts and water wheels. The resin from the bark was used to make tar and turpentine. Another product was charcoal.

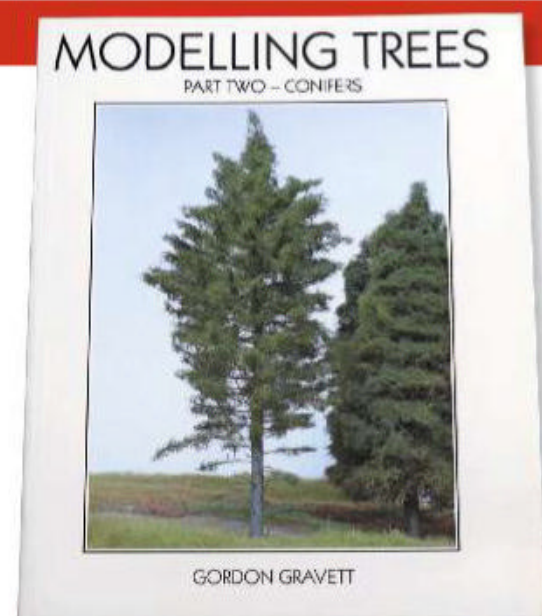
I enjoyed making these models of trees more than I had anticipated. It did give me satisfaction that I now have some trees that will not be seen on anyone else's layout. That said, it is only possible to wind so many trees at any one time. It starts to tire one's fingers after a while!

Before you start...

Your mental impressions of trees are often false. There is no better way of seeing what trees are really like than taking a country walk and seeing them for yourself. I photographed them too, both from a distance and close up.

Before I started on my Scots pines,

I also amassed as much research material as I could find. I found a Scots pine silhouette in a book to refer to as I made the trees. I also kept in mind that a 50cm tall model tree equates to a 40m tall tree in 'OO' and a 22m tall in 'O'.



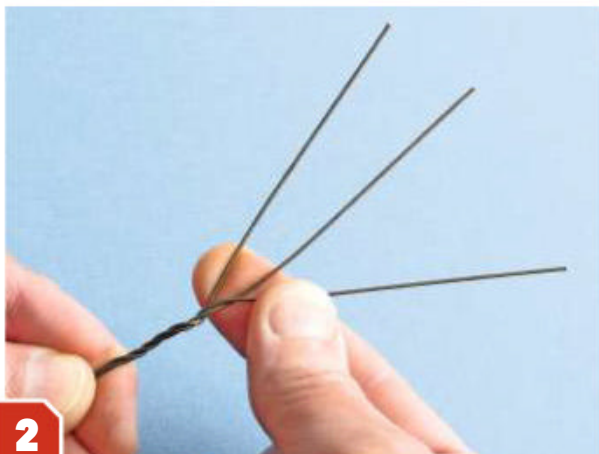
STEP BY STEP

1



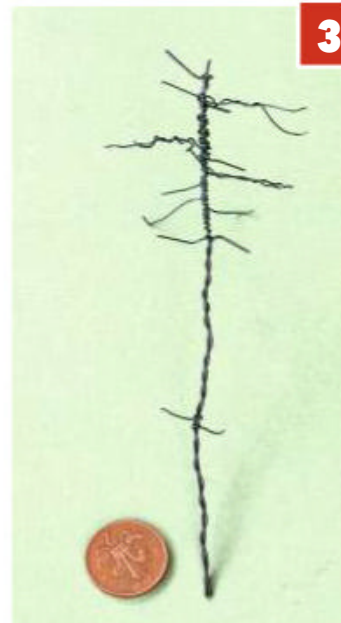
You need to use two thicknesses of wire on each tree. I used thicker florists' wire for the trunk and thinner wire from Green Scene for the branches. Plastic-covered wire is definitely kinder on the fingers.

2



Take the longest lengths of wire and twist them around each other one by one. For the length of the main trunk, wind all of the wires around each other tightly for the trunk, leaving the top two thirds of the wires untwisted.

3



Once I was happy with the shape of the main trunk, I began to twist the wires to form the main branches. As I twisted the wires, I remembered that at this stage it was only necessary to form the main structure.

4



When I had twisted a number of main branches, I compared it with the profile in my book. I needed to re-twist some of the main branches and add more smaller ones using more short lengths onto one of the existing main branches.

5



Further comparisons revealed that I needed to add yet more branches. Most Scots pine branches are at the top of the tree but I added a few of those dead smaller branches that often remain on the trunk lower down.

6



When I was content with the shape it was time to add the trunk bark material. I applied Green Scene Flexi Bark using an old lollipop stick. Flexi Bark is gritty and produces a realistic effect. At least two coats are required for each tree.

7



Once the bark was dry, I used acrylic paints to colour the trunk and main branches using a paintbrush. A short section of bare wires are left at the base of the tree to use as a 'planting pin' into the landscape.

8



It is a common misconception that tree trunks are brown but more often they appear to be grey in colour. Look at photographs or real trees to see what colours are suitable. I used both grey and brown paint.

9



Once the paint was dry, I added the foliage using Woodland Scenics foliage mats. I teased out foliage and then fixed it to the branches using dabs of white glue which I then left to dry.

10



I again referred to my tree silhouette and noticed that I had forgotten to droop the branches - I did this and the tree immediately looked more realistic!

11



I continued to add more foliage until I achieved what I considered to be a realistic Scots pine tree shape. Satisfied with the finished tree, I pushed a hole into the landscape and fixed it into place with a blob of PVA.



What you will need

SHOPPING LIST

- ◆ Oasis 30swg florist wire, £6.75
Availability: Inspirations Wholesale
Tel: 01513 340818 **Web:** www.inspirationswholesale.co.uk
- ◆ Green Scene GS402 Flexi Bark, £3.95; GS325 Wire, 85p
Availability: Green Scene
Tel: 01905 24298
Web: www.green-scenes.co.uk
- ◆ Deluxe Materials R/C Modellers Glue, £5.49 **Availability:** Elite Models **Tel:** 01795 410630
Web: www.elitemodelsonline.co.uk
- ◆ Woodland Scenics F54 Conifer Green Foliage, £5.75 **Availability:** Bachmann stockists

TOOLS

- ◆ Pair of wire cutters
- ◆ Pair of fine-nose pliers
- ◆ Old small flat paintbrush
- ◆ Lollipop stick
- ◆ Pair of small scissors
- ◆ Brown and grey acrylic paint

Don't worry...

Making your own tree is a skill, just like any other, and practice is key. Wire trees can look very realistic, but building them isn't as easy as simply using tree kits. I made about six trees in my first sitting and my sixth tree looked a lot better than my first.

Winding the wire takes practice. It did tire my fingers but I noticed that if the windings were too loose the tree's stability suffered. Some of the final trunks on my first batch of trees were rather too thick. On subsequent batches, I used less wire and tree bark to ensure that the trunks were thinner.



What's next?

Want to see some of the best wire trees around? Then you need to visit Pendon Museum. Its trees are simply splendid and there are various displays at the museum demonstrating how to build trees from wire. For more information, go to www.pendonmuseum.com



Be careful to dispose of waste bits of wire safely so that they can't injure children or pets.

TOP TIP

Don't throw away that expanded polystyrene packaging. Use small blocks of it to hold your wire trees upright during construction.



HOW TO

BUILD A SIMPLE LEVEL CROSSING

There are no barriers to **Peter Marriott**'s modelling prowess, unless a level crossing is involved...

Gaugemaster's Fordhampton range of self-coloured plastic kits are perfect for anyone who wants to take their first steps into the world of assembling plastic building kits. The range seems to get bigger and bigger all the time with a campsite at one end of the spectrum and some very useful warehouses at the other. But I digress...

I stumbled across the Fordhampton level crossing kit when I built my diorama based on

Bodiam in MR272. I was looking for a pair of crossing gates suitable for depicting the Kent & East Sussex Railway and the mesh on the Fordhampton gates was similar to that on the line's gates. If anyone was familiar with the level crossing kit in Hornby's old R421 set, you'll notice some strong similarities - the mesh and the metal bracing rod are Gaugemaster extras designed to make it a bit more realistic!

The kit, typical of the Fordhampton range,



MODEL Gaugemaster GM404 Fordhampton Level Crossing ♦ Price £14.75

AVAILABILITY
Gaugemaster Tel 01903 884488
Web www.gaugemaster.com

was easy to build and easy to enhance with a bit of extra detailing. I think it really enhances the Bodiam scene, although I do realise that purists are likely to point out that my red warning signs are circular and not triangular...



STEP BY STEP


1

The kit contains two self-coloured white gates and four posts plus grey plastic road ramps and imitation planking for between the rails. I ditched the planking and the ramps.


2

I painted the grey mesh with some Humbrol Matt white acrylic aerosol, cut it to size and fixed it to a gate with Deluxe Materials Speed Bond, which gave a quick, tacky fix.

What you will need

TOOLS

- ◆ Small paintbrush
- ◆ Swann-Morton knife
- ◆ Cutting Board
- ◆ Red crayon
- ◆ Deluxe Materials Speed Bond adhesive
- ◆ Mr Hobby White Acrylic Paint
- ◆ Humbrol Aerosol of white acrylic paint
- ◆ Sanding Stick


3

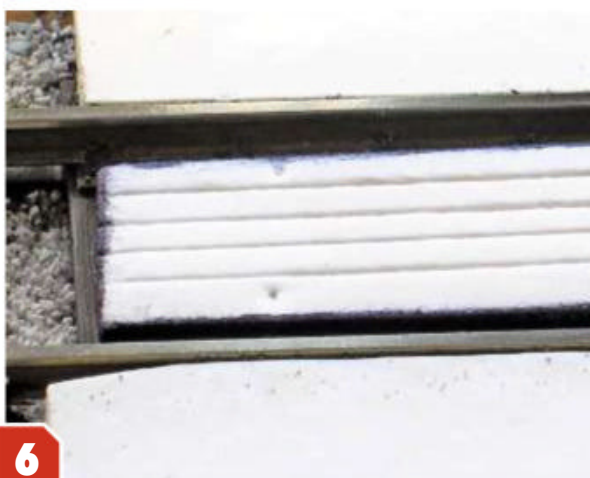
You can transform the look of the gates with a little paint: the lamps were painted red and the hinges and brackets painted black.


4

I made the road surface from Daler-Rowney mount card (from Hobbycraft) which I aligned with the railheads.


5

To make the timbers between the rails, I pressed the card onto the rail heads to get the right shape. I cut it out with scissors, trimming it to form the flangeway.

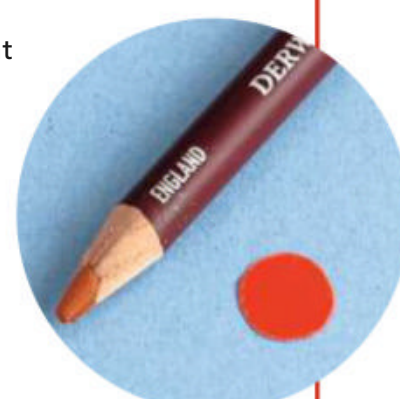

6

The infill between the track was made from a piece of card. I scored lines on it with a sharp knife to represent timber planks. I painted the edges of the card with a black felt-tipped pen.

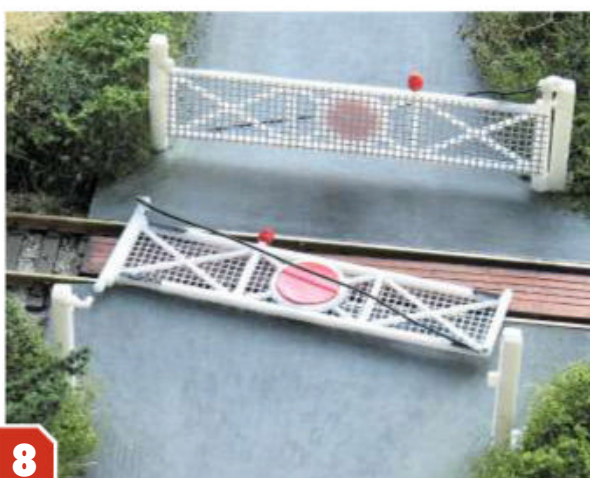
The warning disc

Here's proof that even experienced model makers don't always get it right. I tried to use a craft knife to carefully cut around the red disc, like you would do with a sheet of decals. Even with a sharp blade, the knife left a ragged edge and I had to spend quite a bit of time with a Bachmann Modelmaker sanding stick to tidy the edges. In hindsight, a sharp pair of scissors would have made a much better job.

I used a Derwent colour pencil to colour the cut edges of the red discs. The red roundel was fixed centrally to the gate using Deluxe Materials Speed Bond.


7

I coloured the edges of the card using a black felt-tipped pen before gluing it with Speed Bond. Then I painted the timbers with brown acrylic paint.


8

To mount the gate posts, push small holes in the mounting card slopes and then gently push the posts into the holes. Leave the holes quite tight to support the posts. Secure them with a dab of white glue.


8

To complete the scene, I painted the approach road with a pale acrylic grey. The hedges are Woodland Scenics Poly Fiber covered with flock.

Masterclass

Looking at locomotives in detail

WHEN PUSH comes to shove

Against the backdrop of a mighty industry in its death throes, the Class 13 was born, destined for a short, undecorated life. **Ben Jones** tells the story.

If you've ever seen *The Full Monty*, you'll no doubt recall the opening sequence, which features a public information film entitled *Sheffield – City on the Move*. It depicts a dynamic, modern city of the early 1970s, powered by the might of the steel industry. Almost immediately, though, the action switches to a scene of dereliction and decay as our heroes attempt to 'liberate' some steel from an abandoned factory. Sheffield's rapid and traumatic decline in the 1970s and 1980s was reflected in its railways as the heavy industries that made it such a honeypot for Victorian railway builders vanished, in some cases almost overnight.

The Sheffield Area of British Railways' Eastern Region was responsible for 10% of BR's entire freight traffic. In the late 1950s, some two million wagon loads per year. In 1961, three million tons of freight was forwarded and six million tons received in up to 9,000

daily wagon loads. No fewer than 5,000 empty wagons were required each day for loading in the Sheffield area.

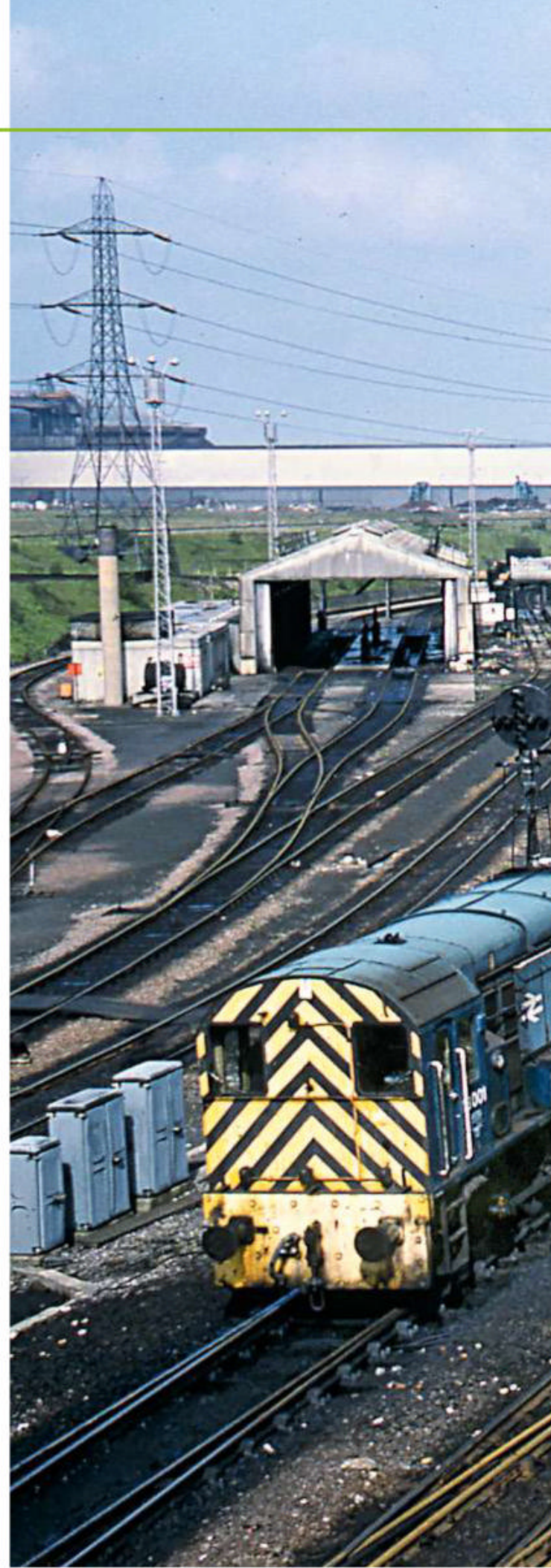
The eastern part of the city bustled with goods yards, freight depots and private sidings, most of which dated from the railway boom in the second half of

19th Century. However, a century later, the piecemeal development of the city's railways had become a serious impediment to efficient operation.

As well as the dominant Midland and the Great Central Railways, whose main lines crossed the city north-south and east-west respectively, numerous other pre-Grouping railways fought to win a share of Sheffield's lucrative

freight business, including the London & North Western, Great Northern, Lancashire & Yorkshire and even the Great Eastern. The result was a tangled web of lines and sidings that required an army of shunting and trip locomotives – and an even larger army of people to keep them moving. It was inefficient,

“Sheffield's rapid and traumatic decline in the 1970s and 1980s was reflected in its railways”



expensive to operate and increasingly out of step with the needs of its customers.

Another fascinating public information film set in Sheffield, British Transport Films' *Freight and a City* of 1966, gives a perfect illustration of this. It follows the journey taken by a wagon loaded with steel, which takes the best part of a day to complete its trip, ending up less than a mile from where it started! With road haulage eating hungrily into BR's freight revenue in the post-war era, clearly something had to be done. And this is where the three heroes of this story enter the stage.

D4502 was still in ex-works condition when photographed in July 1965. The slave unit's cab had been removed during the conversion process and was replaced with a small open balcony for shunting staff. The two locomotives were originally coupled back-to-back but were repositioned after a few months. COLOUR RAIL



BR's three Class 13s spent almost all of their lives working out of the public eye; an unglamorous but essential and hard-working cog in the country's industrial machine. For enthusiasts and trainspotters of the time they were among the most difficult locomotives to 'cop', requiring a special trip to Tinsley, unless you were lucky enough to catch one under overhaul at Doncaster Works. Judging by the empty sidings in the distance, there was not a lot for 13001 to do when it was photographed in May 1983. TREVOR OWEN/COLOUR RAIL



TOPS No.	Original No.	Master unit	Slave unit
13001	D4501	D4190	D4189
13002	D4502	D4187	D3697
13003	D4500	D4188	D3698

BR's solution was to replace the multitude of smaller goods yards with an enormous new marshalling yard, carved out of the landscape on the eastern outskirts of the city. This £9 million scheme would deliver a radical rationalisation of the area's railway network, eliminating duplicated facilities and concentrating freight traffic on a single major yard, complete with a modern traction maintenance depot.

Planning started in the late 1950s, with numerous locations in both Sheffield and neighbouring Rotherham considered for the marshalling yard. Eventually though, a site on the almost unused **Sheffield District Railway**, close to the Sheffield suburb of Tinsley, was approved in 1960, with construction starting in August 1961.

When it was officially opened by Lord Beeching in 1965, the former British ➤

Right: Aside from the heavier bufferbeams and the removal of the slave's driving cab, other modifications made during the Class 13 conversion included the installation of an electronic speedometer, allowing drivers to more accurately judge their speed, and VHF radio telephone for communication with the yard control tower. The three '13s' were allocated the call signs 'Alpha', 'Bravo' and 'Charlie'. LES NIXON

A railway promoted by the Lancashire, Derbyshire & East Coast Railway and the Great Eastern Railway. It opened in 1900 and operations were taken over by the GCR in 1907.





Railways Board (BRB) chairman commented that Sheffield now had the 'world's most advanced traffic handling system'.

ROLL CALL

Key to its success was the 'hump'. Hump yards, where wagons are pushed over an artificial hill and allowed to roll into reception sidings, were not new, but Tinsley became the first marshalling yard in the world to be equipped with the computerised Dowty wagon control system, using automatic retarders to slow the progress of wagons being shunted off the hump and sorted into departure sidings.

Hump shunting is a specialist activity, now long vanished from Britain's railways, although it continues in other countries, including Germany and the USA. It requires skilled driving, concentration and locomotives with a high tractive effort.

In the steam era, the largest British marshalling yards employed a special breed of heavy locomotives, such as Robinson's '8H' 0-8-4Ts built for Wath Yard near Barnsley and Maunsell's big 'G16' tank locomotives built for Feltham in West London.

BR's standard 0-6-0DE shunter (later Class 08) was – and remains – a powerful and capable machine for its size. But, weighing in at just 48 tons, it could not match the sheer brute strength of an eight-coupled steam locomotive weighing twice as much – especially on a wet and windy day.

Having tested and rejected solo 350hp diesels on the hump – and not wanting to risk larger locomotives grounding on the hump – BR settled on a bespoke solution. It would semi-permanently couple six 350hp shunters together to form three 'master and slave' units. The most obvious modification was the removal of the cab on the 'slave' locomotive. Both parts of the unit had their weight increased from 51 to 60 tons by fitting thicker steel bufferbeams and ballast weights above the axles. Electrical modifications were also made to allow the two locomotives to be controlled in multiple.

Maximum tractive effort was increased to 70,000lb/f and axleload increased to 20t.

The six locomotives selected were D3697/98 and D4187-90, built at Darlington Works in 1959 and 1962 respectively. D3697/98 were 'local', having been delivered to Sheffield

The locomotives were delivered in standard BR green with 'wasp' stripes on the outer ends of each unit (and on the radiator end of the 'master' section – a legacy of their original arrangement). Numbers were applied on the 'master' section cabside only. Five-digit TOPS numbers were applied in 1974, with the three units becoming Class 13. D4501/02 became 13001/002 and the identity of D4500 was changed to 13003. GORDON EDGAR/RAIL PHOTOPRINTS

Darnall a week apart in May 1959. D3697 subsequently worked out of Mexborough and Wath, while D4188 had a short spell at nearby Grimesthorpe in April-September 1961 before returning to Darnall. D4187-90 were new to Stratford in east London in July/August 1962.

Conversion was undertaken at Darlington Works in late 1964 and early 1965 and the new locomotives were officially reallocated to the new Tinsley TMD on January 16 1965. Initially, the units were coupled cab-to-cab, but this was quickly deemed unsatisfactory by crews. Visibility from the cab was poor in both directions, leading to low-speed bufferstop collisions on more than one occasion after drivers misjudged the length of their units. The problem was solved in 1966 when all three units were despatched to Doncaster Works for



modification, returning with the 'master' locomotive reversed and coupled nose-to-cab with its partner.

Once the initial sighting issues had been resolved, the trio settled down to a largely monotonous existence pushing rakes of wagons from Tinsley's cavernous reception sidings over the hump for sorting. Two units were required for these duties every day, such was the level of coal, steel and scrap traffic arriving at Tinsley for remarshalling.

HUMPED AND DUMPED

Sadly, by the time Tinsley Yard and the Class 13s were fully operational, the heavy traffic they were built to serve was already teetering on the edge of an abyss. BR's own plans envisaged the replacement, wherever ➤

Although 13003 had been repainted in BR Rail blue by the time it had received its TOPS number, 13001/002 were still green. 13002 ran until September 1977 in that condition, making it one of the last active BR locomotives to run in the old livery. It was repainted blue during a visit to Doncaster Works in 1977, where it was photographed. The rear of the slave unit was blue with yellow bufferbeam, whereas the master unit's nose received black/yellow 'wasp' stripes. BR arrows logos were only applied to the master locomotive. RAIL PHOTOPRINTS

Both D4502 and Tinsley Yard were new when this photograph was taken in March 1965. Millions of tons of sandstone and shale were removed from a 115-acre site that was more than two miles long and a quarter of a mile wide. New junctions and connections were also provided to enable trains from all directions to gain access to and from the yard. This Stanier '8F' was a rare visitor; more common were the Sulzer and Brush Type 2s and English Electric Type 3s seen on or around the sheds. LES NIXON



Masterclass



possible, of the very wagonload traffic that Tinsley had been built to handle with more efficient point-to-point block trains.

At the same time, South Yorkshire's collieries and steelworks fell victim to a remorseless industrial decline brought on by a rapidly changing economic and political landscape. Throughout the 1970s and into the 1980s, steel and coal traffic was in retreat and much of BR's traditional wagonload business was lost or being switched to new air-braked wagons and block trains.

Despite the fact that Doncaster was less than 20 miles away from Tinsley, 13003 made a 300-odd-mile round trip to Swindon for attention in 1980 and starred at the October 5 Works Open Day. 13003 was subject to a brief - but unsuccessful - attempt by preservationists to save it. GORDON EDGAR/RAIL PHOTOPRINTS



By the time the economic recession of the early 1980s struck, only two '13s' were required at Tinsley and on many days only one was needed to shunt the hump yard. As a result, when 13002 suffered a generator failure in 1981, it was sent to Swindon Works. Staff investigated the possibility of returning the 'master' section to traffic as a single Class 08 but it was never repaired. As a result, on June 28, 13002 became the first Class 13 to be withdrawn. It was stripped for reusable parts and scrapped at Swindon in September/October 1982.

The two remaining '13s' survived until hump shunting at Tinsley Yard was abandoned in 1984, leaving them without a purpose after a career just shy of 20 years. They were officially withdrawn on January 20 1985 with 13001 moving via Tyseley to Swindon for disposal and 13003

making the somewhat shorter journey to Doncaster Works. Despite further consideration being given to conversion of the 'master' sections into air-braked '08s', the '13s' were scrapped in May and September 1985.

On October 7 1978, 13003 became the first of the class to work a passenger train when it hauled 'The Pennine Rambler' Merrymaker charter from Rotherwood exchange sidings, near Woodhouse, to Tinsley Yard, where it handed over to 'EM1s' 76010/023.

A similar feat was achieved in the final year of the class when 13001 hauled 'The Dore Mat' railtour for just over a mile from Shepcote Lane Junction to Tinsley East on February 18 1984. Like the unconventional heroes of *The Full Monty*, the Class 13s had their brief moment in the spotlight too.

RECOMENDED READING

Tinsley and the Modernisation of Sheffield's Railways by Chris Booth (Platform 5, 2019)
www.barrowhillcollections.com



Above: The Dowty hydraulic retarder gear – just visible in front of the hybar wagon – gave the Class 13s severe wheel flats. Therefore the Class 13s had their tyre profile modified. This work was undertaken at Doncaster Works, with the Class 13s running to and from the works under their own power. LES NIXON

Left: The rear of 13001's slave unit was plain blue with blue bufferbeams and the master locomotive's nose was painted plain yellow. 13003, meanwhile, had wasp stripes applied to both the rear of the slave unit and the nose of the master unit. BR arrows were applied to only the master unit, whereas 13001 received logos on both the master and slave units. COLOUR RAIL



TOP TIP

This kit comes with a simple instruction sheet, so you'll need some good reference material to help aid construction (always a good idea, even with the most comprehensive instructions!). For this project, I turned to *Modern Locomotives Illustrated* No. 202, *BR shunters* 08/09/10 & 13.



HOW TO

BUILD A CLASS 13

Dave Lowery uses a conversion kit to show you how to model your own Class 13.

Conversion kits are one area of the hobby that seems to have slipped away without any notice.

Remember the likes of Crownline? Those kits you could buy that, with some hacking about, would enable you to turn a ready-to-run model into something else.

Happily, this area of the hobby isn't quite dead and you can still find some excellent conversion kits out there, which allow you to

fill some of the gaps in the ranks of ready-to-run models.

The famous Class 13 'master and slave' is one of the few diesel shunters not available as an RTR 'OO' gauge model. It's probably due to the fact that it comprised two Class 08s, which offered lots of shunting power but makes manufacturing a model a difficult and costly process.

Thankfully, RT Models has come to the rescue with a conversion kit that enables you to create a Class 13 from two Hornby '08s'.

As I intended to produce a BR blue Class 13, I used two blue donor models. The 'master' locomotive only requires new replacement bufferbeams (which you have to buy separate to the main kit) and a new handrail. Most of the work revolves around the 'slave' locomotive. You get very finely etched nickel-silver parts to make the open cab (does this make it a Class 08 cabriolet?) and new backplate to seal off the back of the bonnet and a whitmetal casting for where the control desk would have been.

All in all, this is a nice little conversion project, with some neat components, that will leave you with a unique model to add interest to your layout.



TOP TIP

I like to mix glues to fix big sub-assemblies together. I use UHU and a little dab of cyano. The cyano will bond instantly - especially if you use an activator - but the joint will be quite brittle and can snap easily if the part is knocked. The slower curing UHU forms a more flexible bond, so it's better for future handling of the model.

What you will need

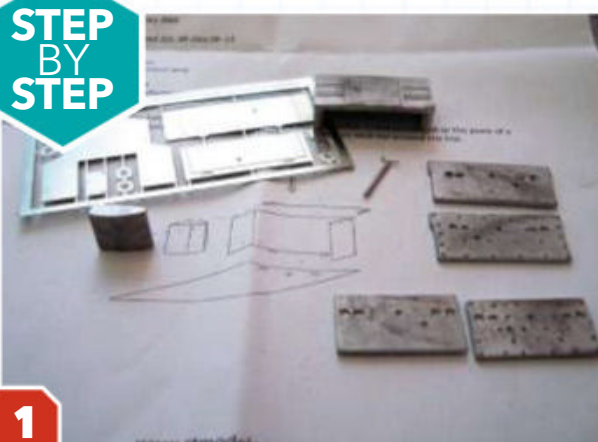
SHOPPING LIST

- ◆ Hornby R3342 08489, BR blue, £125.00 **Availability:** Olivia's Trains
Tel: 01143 216160
Web: www.oliviastrains.com
- ◆ RT Models 4SLP007 Cast pair of Class 13 bufferbeams, £3.10.
Availability: RT Models, 5b Tower Park, Ennerdale Road, Shrewsbury SY1 3TD **Web:** www.rtmodels.co.uk
- ◆ Fox Transfers F4450 Standard Blue Loco Livery Element, £5.95.
Availability: Fox Transfers
Tel: 01163 194950
Web: www.fox-transfers.co.uk

TOOLS

- ◆ Razor saw
- ◆ Selection of files
- ◆ Pin vice and drill bits
- ◆ Punch
- ◆ Side cutters

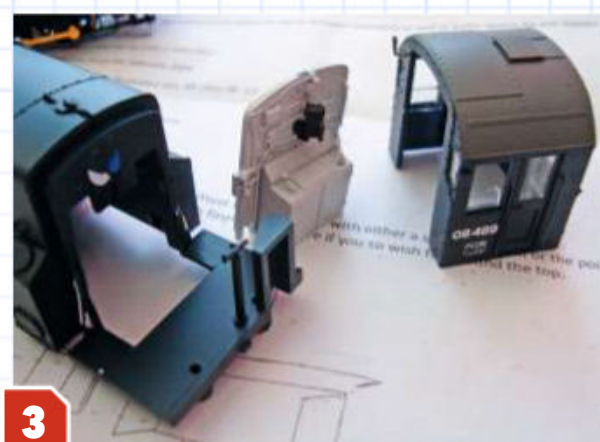
For analogue and DCC layouts, removal of the motor from the 'slave' unit will allow it to be hauled, although the power collection could be retained and linked to the 'master' to improve performance. DCC also offers the option of fitting a decoder to both units for increased traction, although they'd both need to be set to the same address.

00
GAUGE**MODEL R7 Models 4SLP008 Class 13 Slave
Loco Conversion kit ♦ Price £11.50****AVAILABILITY R7 Models, 5b 7ower Park, Ennerdale Road,
Shrewsbury SY1 37D Web: www.r7models.co.uk** **½ a day plus
drying time****STEP
BY
STEP****1**

The kit contains an etched nickel-silver open cab floor and rear, whitemetal castings for the non-control desk and bufferbeams for the 'slave'.

**2**

To dismantle the '08', remove the two screws at the rear of the chassis. At the front, take off the air tank to reveal the screws - and then remove them.

**3**

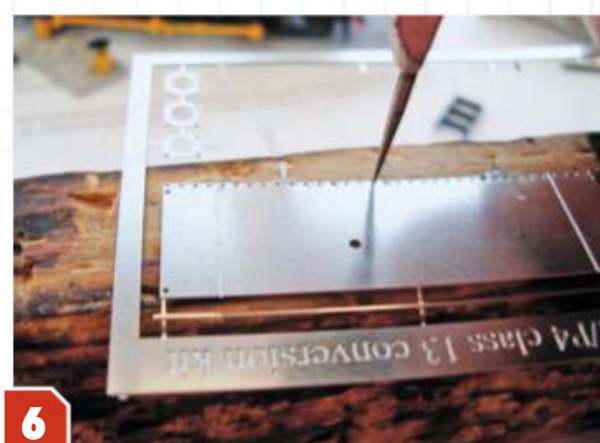
Now slide the cab upwards after easing it out of the base. Then separate the grey-coloured backhead. It's glued into the body, so give it a good flick.

**4**

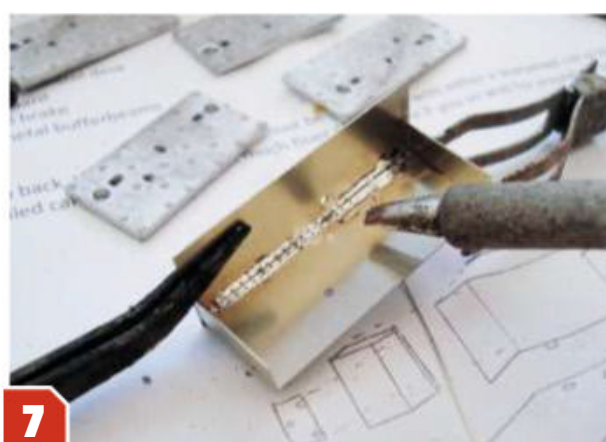
Remove the cab floor/cab rear by using a razor saw to cut down between it and the locomotive's bonnet.

**5**

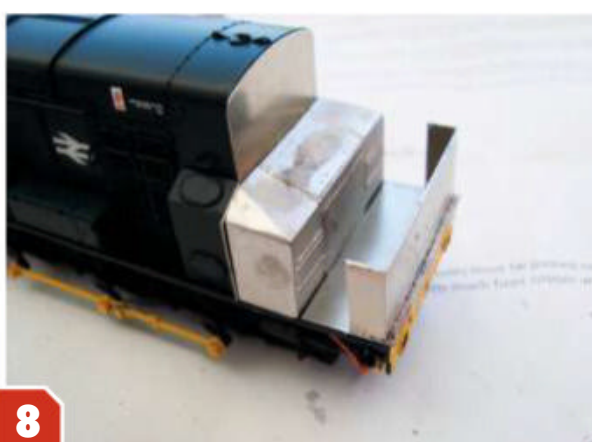
Place the etched nickel-silver backplate in position and mark where the chassis/motor casting needs to be filed to give a flat fit.

**6**

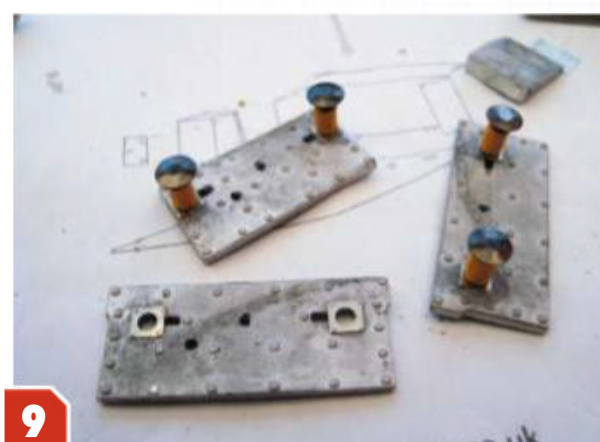
Punch the rivet detail into the rear of the backplate's half-etched holes using a not-too-sharp, thin probe. Practise on some scrap material first to find the right pressure to use before starting.

**7**

Once you're happy with the rivets, fold the outer wall using the baseplate as a guide in order to get it square. When happy, solder it in place. Use small amounts of solder so you don't flood the rivet detail.

**8**

Clean the whitemetal castings with abrasives and remove any traces of flash. Test-fit the main components and continue to file the parts - checking the fit regularly - in order to achieve a good, square finish.

**9**

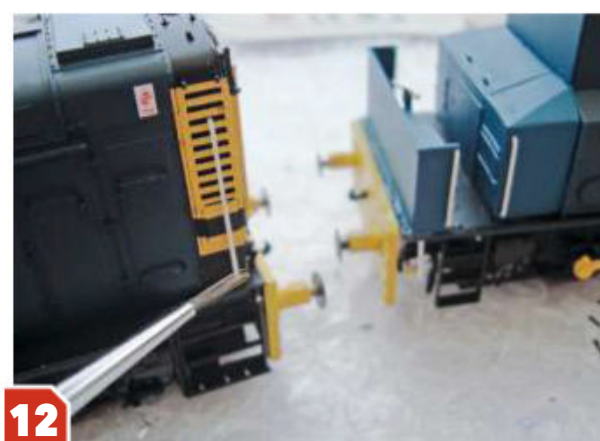
Remove the Hornby sprung buffers and tidy the base of the shanks. Also file square the whitemetal bufferbeam castings and fit square nickel-silver buffer bases, then locate and glue the buffers in place.

**10**

The only work necessary on the Hornby body is to remove all the bufferbeam detail with a file. Ensure that the bufferbeams are nice and flat, ready to have the replacements glued in place.

**11**

The sub-units can now be painted. I used grey primer for the body parts that are painted blue and white primer for bufferbeams that will be painted yellow. I found RailMatch blue a fairly decent match to the shade that Hornby uses.

**12**

Add handrails to the sub-assemblies and paint them white. Also add two long handrails to the front of both 'master' and 'slave' locomotives. Also, alter the locomotive's number.

Know your stuff

PAINTING AND WEATHERING: Q&A SPECIAL



George Dent
MR's Deputy Editor
can offer sage-
like advice on any
modelling subject.



Lisa Munro
The Airbrush
Company's marketing
manager is also
a talented artist and
airbrushing tutor.



Dave Lowery
Professional model
maker who's been
there, done that and
got the T-shirt!

Over the past few months we've received a raft of reader queries about various aspects of painting and finishing models, so we decided to bring them together into a special edition of Know Your Stuff. This month, our panel of experts offer plenty of hints and tips, concerning preparation, painting and weathering, as well as how to keep your paintbrushes in fine fettle!

WHAT'S THE BEST WAY TO CLEAN PLASTIC KITS BEFORE PAINTING?



I built a number of plastic wagon kits during lockdown but haven't painted them yet.

Do I need to clean them before painting, or do I just need to make sure they're free of dust?

Gavin Williams, by e-mail

Lisa says: Plastic kit components may have been coated in a releasing agent to help them slide out of the moulds. Additionally, after you've handled and assembled the parts, they're bound to have a small amount of oil from contact with your skin. Both of these factors can affect the overall painted finish, impeding the adhesion of the primer and topcoats, ultimately causing the paint to chip or flake away.

To be on the safe side, it's always best to clean and degrease the model before painting. After removing the metal wheels, bathe your wagons in a bowl of lukewarm water and a mild, all-purpose household detergent. This will usually shift all traces of releasing agents and other contaminants, as well as any loose material that a dusting brush is likely to miss. Brushing the model gently with an old (but clean) toothbrush or stiff paintbrush will help the soap to dislodge the grease and oil deposits.

It's important to then rinse the model thoroughly in clean water and to set it aside to dry completely, preferably for



Before painting, clean your assembled plastic kits in lukewarm water with a little household detergent. An old toothbrush makes for a handy, miniature scrubbing brush.



Mild alcohol solutions are also useful for cleaning plastic surfaces. George often makes use of Tamiya's acrylic thinners and LifeColor's acrylic cleaning fluid, applied by brush and then wiped away with cotton swabs.

a few days in a warm, dust-free environment. If you've built a covered van, moisture might be trapped inside the bodysheet, so drilling one or two small, discreet holes in the floor will allow it to evaporate.

Now that the wagons are clean, try to keep handling with your bare hands to a minimum before the painting begins. If any dust has settled onto the model while it was drying, brush it away with a clean, soft brush. Alternatively, dab the surface with a tack rag to collect the debris and prevent it from settling elsewhere on the model. Don't press too hard with the tack rag, or you'll transfer some of the adhesive onto the model's surface.

Special model cleaning fluids are available, formulated from isopropyl alcohol and diluted with distilled water. These are useful if the model can't be submerged in water, due to the presence of electrical or mechanical components. The alcohol cleaner is brushed over the model and the surface swabbed with cotton buds or tissue to remove the loosened dirt and grease. A number of applications is usually required to ensure a thorough clean.

Don't use solvent-based fluids, such as white spirit, enamel or cellulose thinners to clean plastic models, whether they're pre-painted or unpainted - as they will eat into the material and cause significant damage.

SHAKEN OR STIRRED?



What's the best way of stirring paint? I've always used a screwdriver, but I've seen special stirring tools. And should I shake the paint before opening as well?

Anthony Cowburn, by e-mail

Lisa says: Most paints tend to separate during storage, with the bound pigment settling to the bottom of the jar. Special paddle-shaped stirring tools are designed to disperse the pigment more effectively than

a flat screwdriver, while the stirrer's surface is also easier to clean than the rough metal of a screwdriver. There are also battery-powered paint stirring tools available, to make the job quicker and easier.

Acrylic paints benefit from shaking as well as stirring, but most enamels - which are generally thicker - don't respond so well to shaking and are best stirred. If the paint is to be thinned for airbrushing, the paint mix should be shaken and/or stirred at regular intervals to keep the pigment dispersed.

Acrylic paints benefit from a shake and a stir, but enamels usually just need stirring.



Keep up to date
with *Model Rail*
News online.

CHOOSE THE RIGHT MASKING TAPE



I'm going to try repainting a couple of locomotives in Network SouthEast livery, but I'm not sure what masking tape to use. It needs to be good quality and available in very thin strips. It will need to be flexible to cope with the profile of the bodysHELLs but able to be laid in straight lines. Any recommendations?

Mike King, by e-mail

Lisa says: I'd recommend using a flexible, PVC/vinyl-backed low-tack fine-line tape. These are available from a variety of brands, in widths ranging from 1mm up to an inch or so. These tapes are very versatile and perfect for intricate, delicate and multilayer masking. In contrast to more generic, cloth-backed tapes, thin PVC tapes can conform to complex surface profiles more readily, while also providing a cleaner separation between colours. They're also easier to lay in straight lines, using a steel rule as a guide.



Above: Vinyl-backed masking tapes are best for fine work. Use a steel rule to help create straight lines.

Right: The Flake King range of Prime Fine Line tapes is available in a variety of widths and thicknesses, the orange rolls being the thinnest and most flexible.



Going for a deeper clean

With a view to practising various airbrushing techniques, I unearthed some old locomotive bodysHELLs. Their paintwork is badly chipped and they're covered in grime. Is there a way of quickly stripping them back to clean, bare plastic?

Harry Pearson, by e-mail

Dave says: There are liquid paint strippers designed for use on plastic models, such as Superstrip from Phoenix Paints. But I prefer to sandblast bodysHELLs with fine aluminium oxide powder, as it cleans and strips at the same time. Badger offers a great miniature sandblasting package, consisting of a spray gun, hose and abrasive powder, designed for use with any decent airbrush compressor.

Make sure you strip away any glazing from the bodysHELL and that you wear a mask while spraying the abrasive powder. You'll need a higher air pressure than when you're painting, and I'd recommend spraying the powder while the model is held securely on a painting handle.

It's best to wear gloves and eye protection too, just in case. Working with the model held over an open box will contain most of the powder and debris, making it easier to clean up. Make sure you keep the powder away from any electrical or mechanical components. Once the model has been stripped, it can be washed in soapy water, rinsed and dried. Then, it's ready for painting.



Badger's mini sandblaster package includes a spray gun, hose, mask and a jar of aluminium oxide abrasive powder.



Sandblasting effectively cleans away dirt and debris. With a higher pressure, it can also strip away the paint altogether.

TREATING STUBBORN GLAZING



I'm repainting a diesel locomotive, but some of the glazing won't come out - it's glued too tightly. Do you have any tips for freeing the bond?

David Henderson, by e-mail

George says: My best advice is to leave the glazing in place as any attempts to break the glue bond is more likely to result in damage. I was faced with a similar issue recently when painting up a factory sample of the forthcoming Heljan Class 25. The windscreens were stuck fast, so I carefully masked them with low-tack tape.

To ensure that the masking was as accurate as possible, the tape was trimmed *in situ* with the tip of a scalpel blade. A cocktail stick was also employed, to encourage the edges of the tape to sit within the window surrounds, preventing paint ingress onto the glazing, but also allowing the paint to cover the sides of the frames.

As a number of pieces of tape were required



If glazing is secured too tightly, avoid the risk of damage by masking the windows *in situ*.

on each pane, the layers of tape were sealed with masking fluid, applied with the cocktail stick. Don't forget to mask the inside faces of the glazing too, in case any paint works its way into the interior, especially if spray-painting the model with an aerosol or airbrush.

WHAT COLOUR PRIMER?



Why are there so many different colour primers available? Do certain topcoat colours need specific primers?

P. Holbrook, by e-mail

Lisa says: Primers provide a consistent base for the paints that follow, in terms of a level surface and a neutral colour, but also in terms of adhesion. If your model is made up of different colours of plastic, metal or resin then a coat of primer will provide a uniform base and prevent fluctuation in the topcoat's shade across the different materials.

If you're applying a dark colour, then it's best to use a dark grey or black primer. This will also reduce the overall number of livery coats needed to achieve full opacity. In contrast, if a brighter



A white primer is preferable when you plan to apply a bright, vibrant livery colour.

colour is planned, such as yellow, bright blue or red, a white primer is likely to give the best results. Furthermore, a white primer allows brighter colours to appear more luminous, whereas a grey primer can have a dulling effect.

ACRYLIC DRYING TIMES

Q How long do I need to leave acrylic paints before over-coating? They feel dry to the touch after just a few minutes, but when I add more paint, it disturbs the layer below.

M. Vaughan, by e-mail

Lisa says: The majority of acrylic paints will feel touch-dry after between 5-20 minutes. However, the paint needs longer to cure fully before it's able to withstand the application of further coats by hand. To be sure, it's best to leave a model overnight before re-coating. When airbrushing, however, it's possible to add further coats of acrylic after just an hour or so, depending on the thickness of the coat and the brand of paint.



Acrylics may be touch-dry after a few minutes, but several hours are needed before the next coat can be applied.

MIX AND MATCH

Q Can I use enamel and acrylic paints together on the same model?

Partha Ghosh, by e-mail

Lisa says: Generally speaking, it's OK to apply acrylic paints over enamels, providing that the enamels are fully cured. The opposite is not always possible, as the stronger solvents contained in some enamels can damage the acrylic beneath. However, it's not a hard-and-fast rule, as much depends on the amount of enamel paint and thinners applied, as well as the particular brand. Some enamel weathering washes, for instance, are expressly designed to be applied over acrylic finishes.

Like with many things, it's always best to experiment on a scrap model or other surface before working directly onto a prized model.



If you're not sure whether different paints are compatible, test them on a scrap surface before working on your model.

WHAT IF IT GOES WRONG?

Q I've painted a carriage with an aerosol, but it's gone horribly wrong and a few big puddles have formed on the surface. Can I salvage it?

Geoff Allan, by e-mail

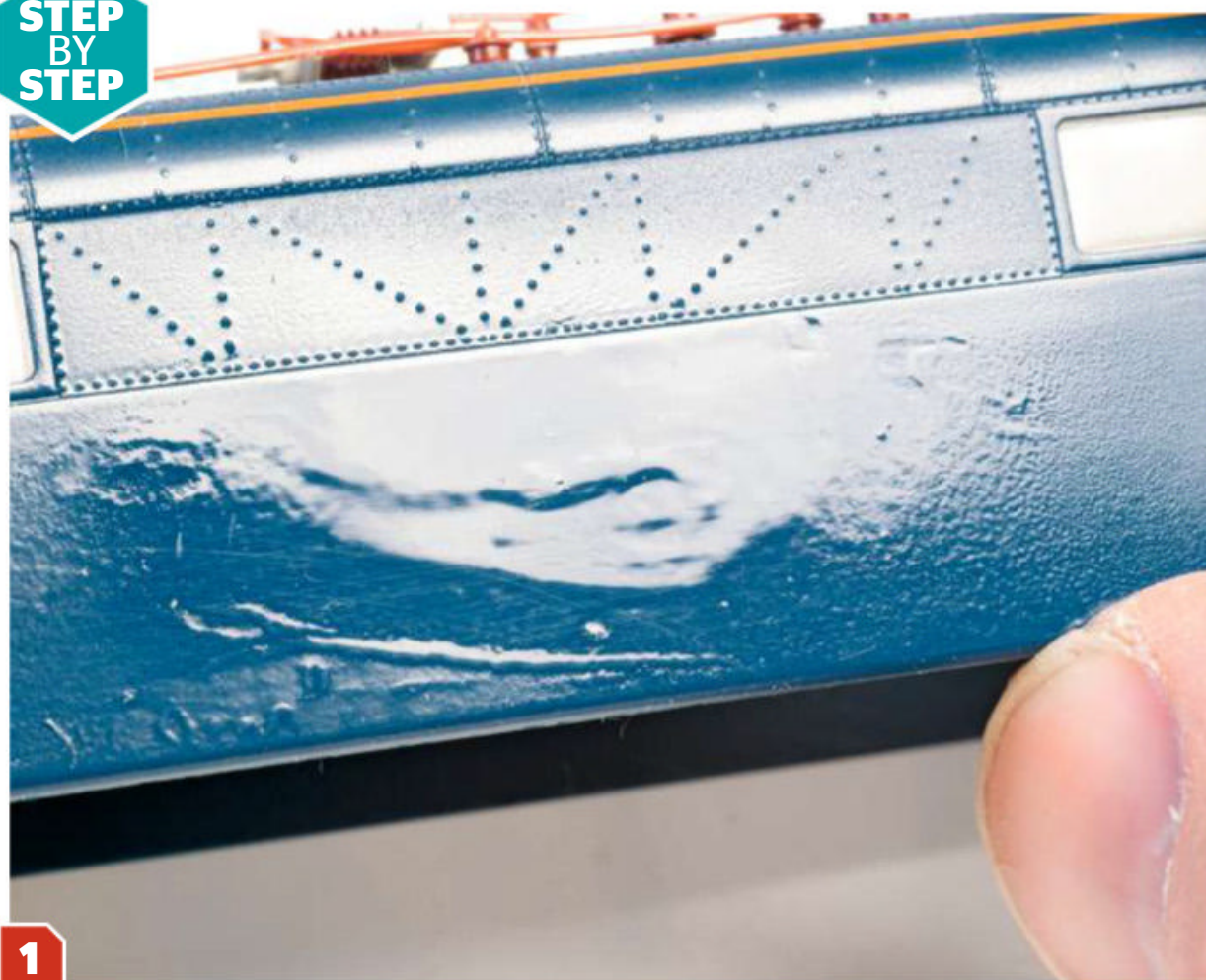
George says: Don't worry, this happens to us all at some point and it's important to resist the urge to act while the paint is still wet, especially if you've used an aerosol. Any attempt to intervene with thinners will make matters worse, so set the model aside to cure fully for a few days and put your mind to happier things.

What happens next depends on where the puddles have formed. If they're on a smooth,

flat area of bodywork, then we can employ abrasives to rub the paint down to a flat surface. However, if the puddles are covering delicate detail relief, such as rows of rivet heads or door hinges, then we'll have to resort to using a model paint stripper, such as Phoenix Paints' Superstrip (see our Class 56 repainting feature on page 34).

On your second attempt at painting, be sure to keep the paint flow to a minimum and keep the aerosol can moving in lateral strokes, starting and ending each spray when the can is pointing to the side of the model. It also helps to keep the nozzle at a consistent distance from the surface, usually between 15-30cm.

STEP BY STEP



1

Disaster struck while applying a clear gloss coat to this Bachmann Class 85, with a large puddle of paint deposited along one of the sides. Apart from swearing out loud, the only thing I could do was put it to one side and let it cure completely.



2

The surface was abraded with successive grades of abrasives, lubricated with warm soapy water. Starting with 2,400grit to level the surface, I moved gradually to 12,000grit sheets, with each removing the scratches left by the previous grade.



3

Once the surface was flat and smooth, a more successful attempt was made at painting and varnishing the bodyshell. Mistakes are inevitable, especially when trying something for the first time, which is why practice is so important.

HOW TO: KEEP YOUR PAINTBRUSHES IN PEAK CONDITION



What's the best way of cleaning and drying my paintbrushes? My brushes never seem to last very long without going out of shape, despite me using good quality brushes from well-known brands.

Fiona White, by e-mail

George says: Good quality paintbrushes should provide years of service, but they need to be cared for correctly. Luckily, I learned some important tips while I was a hard-up art student and my cleaning routine has saved me plenty of money over the years!

As soon as you've finished painting, swill the brush in a bowl of water or white spirit, depending on the type of paint, drawing the brush gently along a sheet of tissue to absorb the fluid. Don't dab the bristles onto the tissue and repeat this until no more traces of paint are deposited. This will be enough if the brush is likely to be used again imminently but, if not, it should be treated to another cleaning stage.

A bar of soap or a drop of shampoo makes for an effective way of removing any residual traces of paint or solvents from the bristles. Indeed, you'll be surprised how much more pigment will be released at this stage, despite the brush appearing clean beforehand. Often, it's these residues, lying deep within the bristles, that cause brushes to stiffen.

After soaping and rinsing the brush a couple of times, re-shape the bristles with your fingers while they're wet and store the brush upright in a pot or old mug. Storing brushes on their sides, especially within a toolbox, is unlikely to help them keep their shape.

Brushes will last longer if stored upright in an old mug or pot.



Cleaning brushes requires the use of solvents and cleaning fluids to suit whatever type of paint you're using, but soap and water are also essential.



1

As soon as the painting is complete, or before switching colours, swill the brush in water (for acrylics) or white spirit (for enamels). Place onto a sheet of tissue and draw the brush towards you, soaking up the excess. Repeat until no more colour is deposited.



2

At the end of a session, treat the brush to a deeper clean. A bar of regular soap or a drop of shampoo will suffice, but special brush soaps are also available (this one is from Games Workshop). Gently add water and work up a lather.



3

Rinse the soap away and repeat the process until the water and soap remain clear - then you'll know that all paint residues have been removed. After a final rinse, shake the brush to remove excess moisture and re-shape the bristles with your fingers.



4

Retain the clear sleeves that some brushes are supplied with and re-fit them to protect the shape of the bristles while the brush is in store. You can even make your own protective sleeves from drinking straws or scraps of plastic tube.



HOW TO: IMPROVE ADHESION FOR WEATHERING POWDERS



I find it difficult to get weathering powders to stick to the bodywork and chassis of my rolling stock. Do I need to use a special fixative solution?

Malcolm Goodyear, by e-mail

George says: Fixative solutions are available from various brands, but the most effective way of improving adhesion before the weathering starts is to apply a coat of clear matt varnish. It can be applied by hand, aerosol or airbrush and it should be left to dry thoroughly before continuing.

We're not relying on the wet paint to aid adhesion, but simply the matt sheen that is formed once the varnish has cured. RTR models invariably feature a lovely smooth, satin sheen, while plastic chassis and bogies can often be very glossy. None of this is conducive to helping dry pigments stick to the surface. A flat matt sheen, in contrast, is naturally a little coarser and the matting agents in the varnish provide a microscopic 'key', giving the powders extra traction.

The dry pigments can be applied by brush, laying the appropriate shades to achieve the degree of grubbiness that you desire. Once the excess has been brushed away with a clean, soft brush, there should be no need for any extra sealing, provided that the model is handled carefully. However, if you're aiming for a particularly filthy or dusty wagon (a cement, stone or coal wagon perhaps), then a fixative solution may be required.

Fixatives are thin, clear liquids that can be applied before and/or after the powders, by brush, pipette or sprayed through an airbrush. They work in a very similar way to a regular matt varnish, improving adhesion and sealing previously applied powders. By building up successive layers of fixative and pigment, some very extreme results can be achieved.

Surprisingly, we can also use pigment fixatives to remove weathering powders or to manipulated them *in situ*. Dipping a cotton swab into the fluid and wiping the surface with vertical strokes can create some interesting streaking effects.



Weathering powders can be harnessed to create lifelike weathering effects, but they may need a little help before they can adhere to a RTR model.

STEP BY STEP



1

An overall coating of clear matt varnish is the simplest means of improving adhesion for weathering powders. Remove the wheels from wagons and protect any glazing or electrical and mechanical features with masking tape.



2

Allow the clear coat to cure before applying the powders, building up the different shades gradually. The pigments will stick readily to the surface, so begin with a light dusting to begin with. For subtle effects, a soft flat brush is an ideal applicator.



3

If heavier deposits of powder are required, brush on a light layer of fixative solution and allow it to dry before applying a further dusting of dry pigment. The process can be repeated indefinitely until a thick, crusty finish is achieved.



4

It's not always necessary to seal weathering powders at the end of the project, unless the model is likely to be handled regularly. A light misted coat of matt varnish will suffice, or the pigment fixer fluid can be airbrushed over the model at a low air pressure.

WHAT'S THE BEST PAINT FOR LINING?



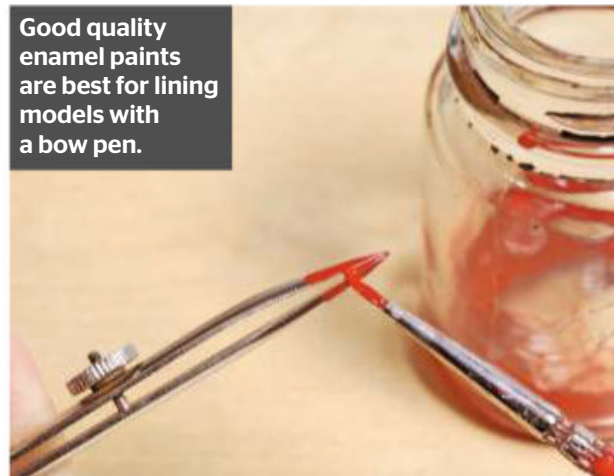
What's the best paint to use when lining-out a model with a bow pen? Michael Buttleman, Watford

Dave says: Enamels are the most suitable, as they're slow-drying and free-flowing, provided that the paint is in good condition. Phoenix, RailMatch, Revell and Humbrol enamels will do the job and the paint should be stirred thoroughly before use. If the paint looks overly gloopy or shows signs of lumpiness, don't bother with it and get

a fresh tin. The paint has to glide unhindered through the fine blades of the bow pen and there's nothing more frustrating than the tool clogging up midway through a line.

Depending on the paint's thickness, a little thinning may be necessary, but it's often a matter of trial and error. Simply spending a few hours practising on a scrap of painted plastic sheet will teach you how the paint will behave at different viscosities.

Good quality enamel paints are best for lining models with a bow pen.





Tensocrom water-based washes are ideal for gently weathering walls and roofs, with a range of suitable brown, grey and green shades available.

A TIP FOR WEATHERING BRICKWORK



I'd like to add a subtle weathering effect to my buildings to take away the pristine look of the brickwork, but not to render the walls filthy. Can you suggest a simple approach?

Peter Rainbow, Newcastle upon Tyne

George says: Weathering washes, with their heavily diluted pigments, offer the chance to create subtle effects. Water-based washes, such as LifeColor's Tensocrom

range, are particularly good for this kind of work, with a range of gentle brown and dark grey tones available, along with a green shade to suggest deposits of algae and moss on weather-beaten walls and roofs. The washes can be applied easily with a soft brush, with any excess wiped away with a swab dipped in water, and they dry to a slightly translucent finish, which is perfect for understated shading effects to masonry, roofs and timberwork.

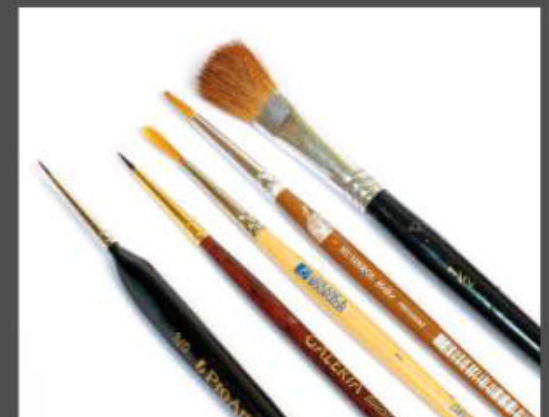
WHAT'S THE BEST BRUSH FOR POWDERS?



What is the best type of brush for applying weathering powders?
Malcolm Goodyear, by e-mail

George says: There isn't a single type of paintbrush that is best for working with dry pigments, as a whole range of different effects can be created using different brushes. Size, shape and stiffness of bristles all play a role and experimentation is the best way of discovering which brush can do what.

In summary, though, soft, flat brushes are great for creating subtle, misted effects, while smaller round brushes will help target deposits of dirt more precisely around details or within confined areas. A stiff-bristled brush can be harnessed to add a burnished effect or introduce scuffing, which is ideal for steam locomotive footplates, for instance.



Weathering powders can be applied with a variety of brush types and sizes.

KEEP 'EM CLEAN

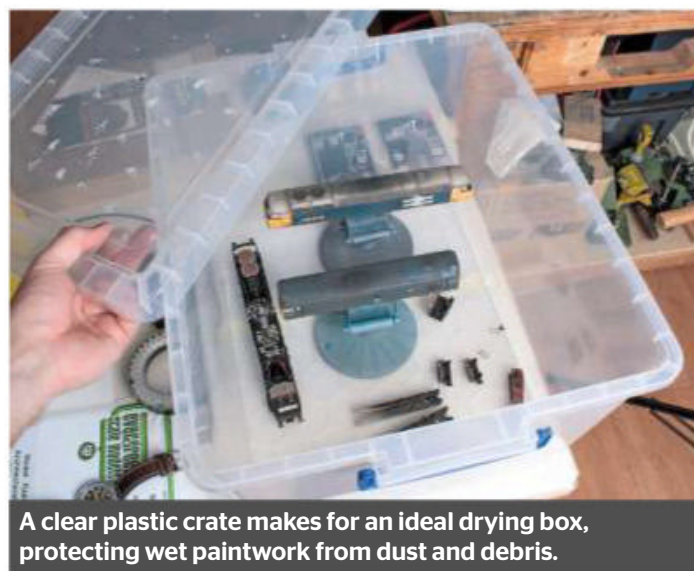


How can I keep dust off my models as they dry?
Kevin Smith, by e-mail

George says: I keep a lidded container beside my workbench and, as soon as the paint has been applied, the model is carefully placed inside the box. A series of holes has been drilled into the lid to allow the fumes to disperse safely. Any type of box will suffice, such as a shoe box, with holes cut into the lid with a knife, just as long as the model will fit easily, with plenty of space around it.

That said, I prefer a plastic box, as the interior can be periodically cleaned with a damp cloth to remove dust and debris. Being clear also helps, as it's easy to see what's inside, removing the risk of accidentally moving the box while there's a wet model inside it - don't ask me how I know this!

Right: Drilling small holes into lid allows fumes to disperse.



A clear plastic crate makes for an ideal drying box, protecting wet paintwork from dust and debris.



The Airbrush Company

Suppliers of airbrushes and associated equipment - including the Badger and Iwata ranges - plus modelling tools, LifeColor, AlcladII and Darkstar paints and powders, Flake King masking tapes and a whole host of accessories. The company also offers a number of training courses and an airbrush support and repair service.

**79 Marlborough Road East
Lancing Business Park
Lancing
West Sussex BN15 8UF**

Tel: 01903 767800
Web: www.airbrushes.com



'OO' GAUGE LAYOUT **WINKLE'S YARD**



Atmosphere by the yard

Numerous touches and meticulous planning make **Shaun Harvey's** goods yard layout far more than the sum of its parts.

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



What
makes this
layout great?

“ Small layouts allow for subtle details to be added which may not be noticed individually, but put them together and the result is a superb layout of exhibition standard. Shaun spent six months building 'Winkle's Yard' and perfecting the atmosphere. It really shows in the final result. ”

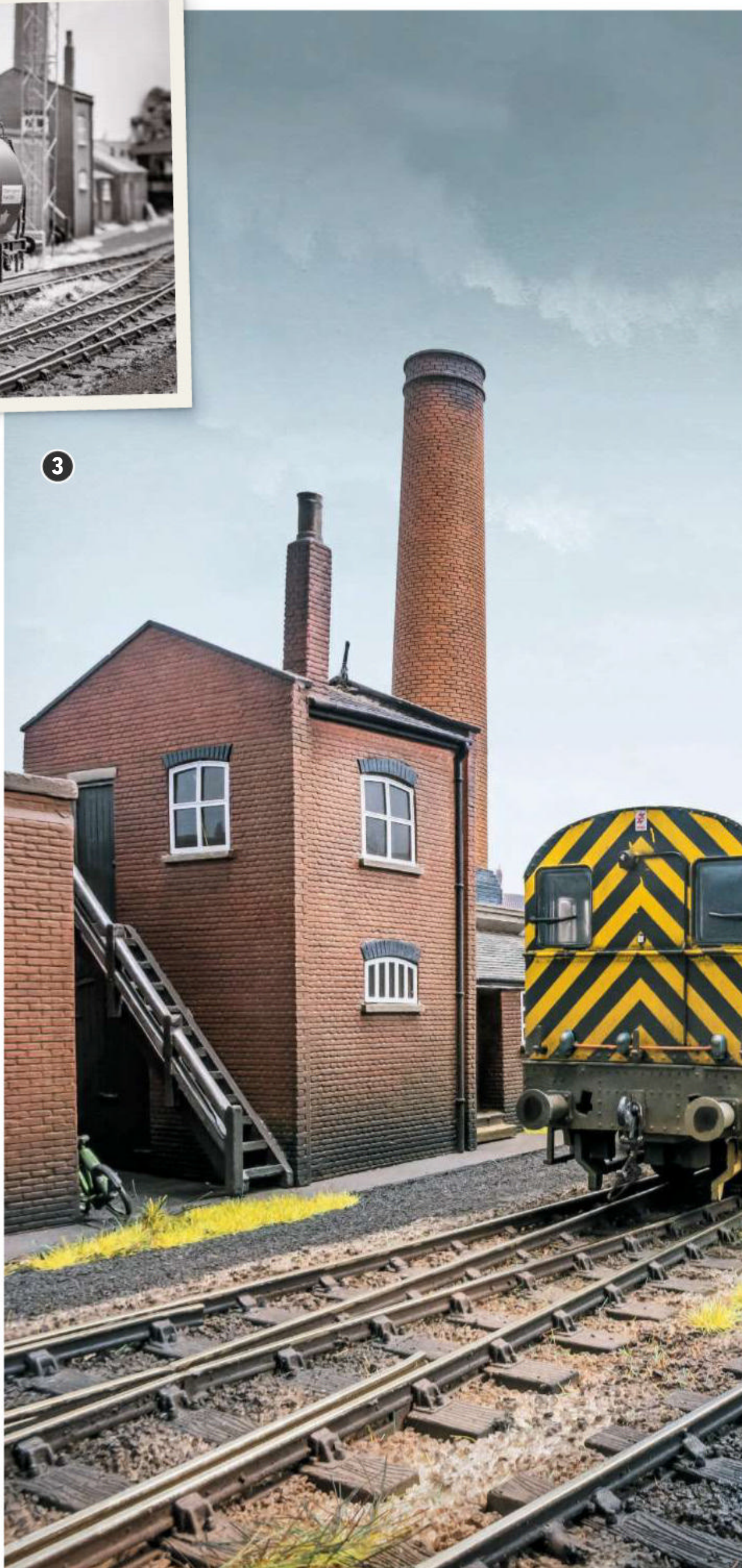
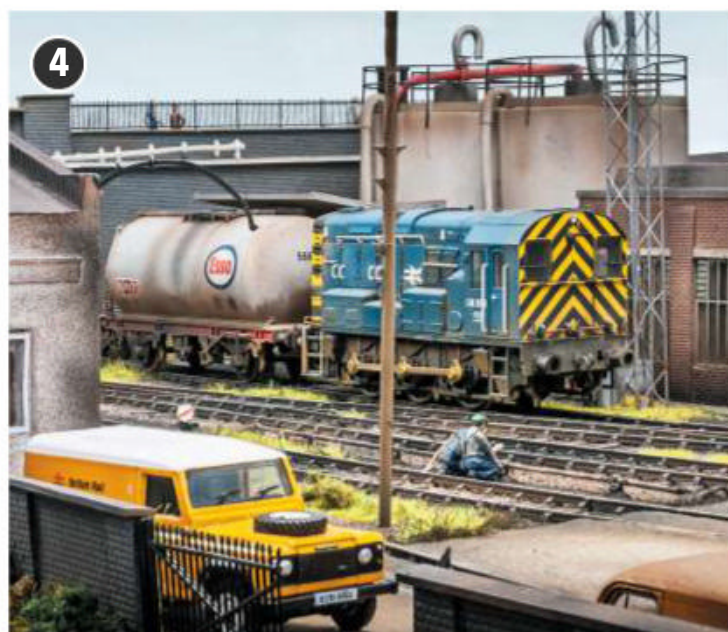
'OO' GAUGE LAYOUT **WINKLE'S YARD**



Have you ever had an idea for a project stuck in your head that just will not go away, no matter what you do, until it's completed? It could be a fitness programme, some home improvements or, in this case, a new model railway. Sometimes it makes no difference if you are deep into another design – that niggling itch in the back of your mind keeps a firm hold on your wandering thoughts.

On occasion, modellers have pondered for decades over these itches, trying to either suppress them or come up with the perfect design before parting with their hard-earned money. Often, a small purchase can lead to subsequent sales and before long there is no other option than to put the plan into action. Shaun Harvey was using all his free time building an 'O' gauge layout when Peco released its bullhead track, but he just couldn't walk past his local model shop without going in to have a closer look.

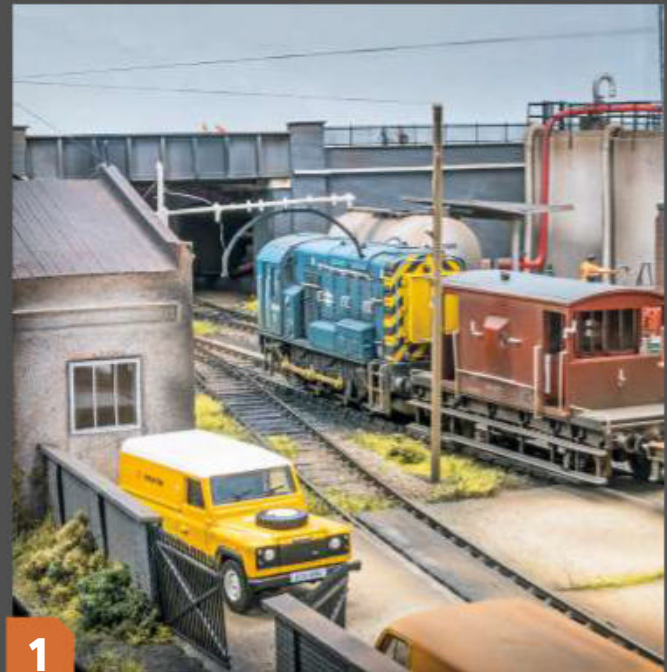
"As it turned out resistance was futile as I bought a section of track, then another, and another, and sooner or later I had enough to create a small layout that would fit inside a Tim Horn 3ft by 18in enclosed baseboard," explains Shaun. "The 'O' gauge layout was put on hold while I wondered how to get the best from my diorama ideas before I fixed anything down. It needed to show the new track in the best possible way without being complicated but also be interesting to operate should it go to an exhibition in the future, although it wasn't my intention in the initial stages." ➤



“It needed to show the new track in the best possible way without being complicated but also be interesting to operate should it go to an exhibition”



3 things we like



1

The wall and the bridge on the left-hand side of the layout towards the fiddleyard have been scratchbuilt out of plastic card.



2

The layout uses Bachmann resin buildings which have been given a light weathering of dull colours so that there isn't a grimy environment with sparkling clean buildings.



3

To try and make the sky a bit more subtle and realistic, Shaun steered clear of a bright blue sky and went instead for a greyer sky with just a splash of white. This used tester pots of paint, as used by Chris Nevard on his own layouts.

Traditionally, smaller layouts have a higher level of detail due to the smaller surface area that the modeller has to work with, allowing for a more concentrated effort than one which covers a significant section of main line. Shaun has used his experience of layout building to meticulously plan every detail, from suitable underlying ground cover to the telegraph wires he keeps forgetting he's installed. But more on those later.

"Before anything was laid onto the cork, I put a layer of play sand down to act as general ground cover. This was one of many ideas given to me by my modelling mentor and friend Kelvin Barnes whose previous layouts appeared in the very early editions of *Model Rail*. As 'Winkle's Yard' is

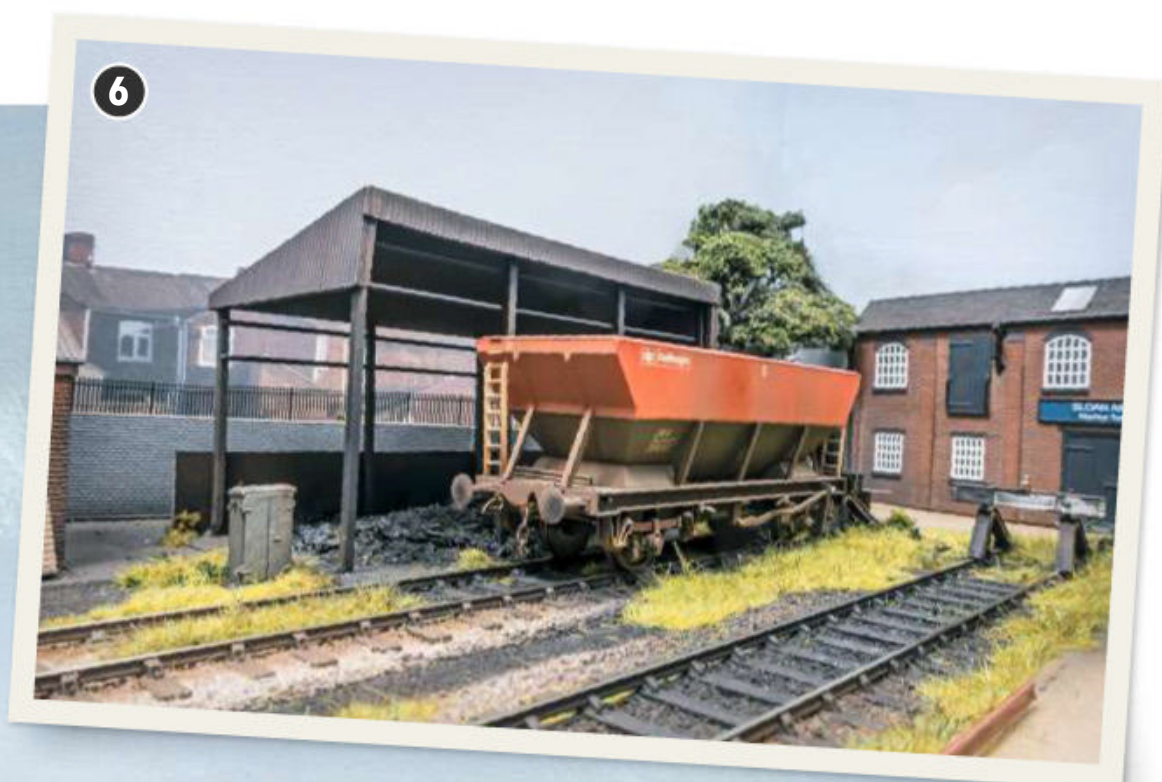
set in the 1970s I wanted to depict the goods shed towards the end of its life, taking inspiration from the old goods yard in Norwich which is now a Morrisons supermarket and a retail park. With an initial layer of ground cover in place, any gaps in ballast would make it appear as though the ballast has worn away over time and hasn't been replaced. As a yard earmarked for closure, it's highly unlikely that any money would have been put into maintenance."

Since Shaun has an area no larger than four and a half square feet to model, he has been able to get right down to the tiniest levels of detail. There are several tricks a modeller can

"I wanted to depict the goods shed towards the end of its life, taking inspiration from the old goods yard in Norwich"



All of the details make it very difficult for Shaun to clean his track, so he employs a Gauge-master high-frequency track cleaning unit to do the job for him, so even when he's cleaning, he doesn't risk disturbing the delicate scenery.





employ to greatly enhance the look of their layout. Some are clear, such as giving everything an equal level of dirt, and some are more subtle and are things you wouldn't notice if they weren't there but make a difference when they are.

"Careful observation of prototype photographs is the key to this and it allows you to fine-tune your layout. I made a point of adding dark patches using an airbrush where locomotives pause, to simulate oil patches, and have added a sparse amount of static grass in the cracks in the concrete, just as it would in real life. The concrete itself may surprise you. It's another idea from Kelvin Barnes using the same cork I put down at the start of the project. I discovered that even with a couple of layers of paint, the original texture still came through and gave the impression of the aggregate within the concrete. All the engines ►

Couplings

Laying cork, and in turn raising the track above the level of the baseboard, allowed Shaun to use 'OO' gauge Spratt & Winkle couplings on 'Winkle's Yard'. As he details, it works well and removes the large 'hand from the sky' coming down and ruining the illusion, but you do have to be scrupulous with your pre-show checks.

"The Spratt and Winkle work by placing a magnet between the sleepers of the rails which disconnect the couplings when they are stationary over it. Strategically placed scenery and figures, for example two men crouching down inspecting something on the line, mark the place of the magnets. The reason I have to carry out so many checks is that if part of the coupling is situated slightly off or you stop the wagons in the wrong place, the magnet doesn't work effectively and the wagons won't uncouple."

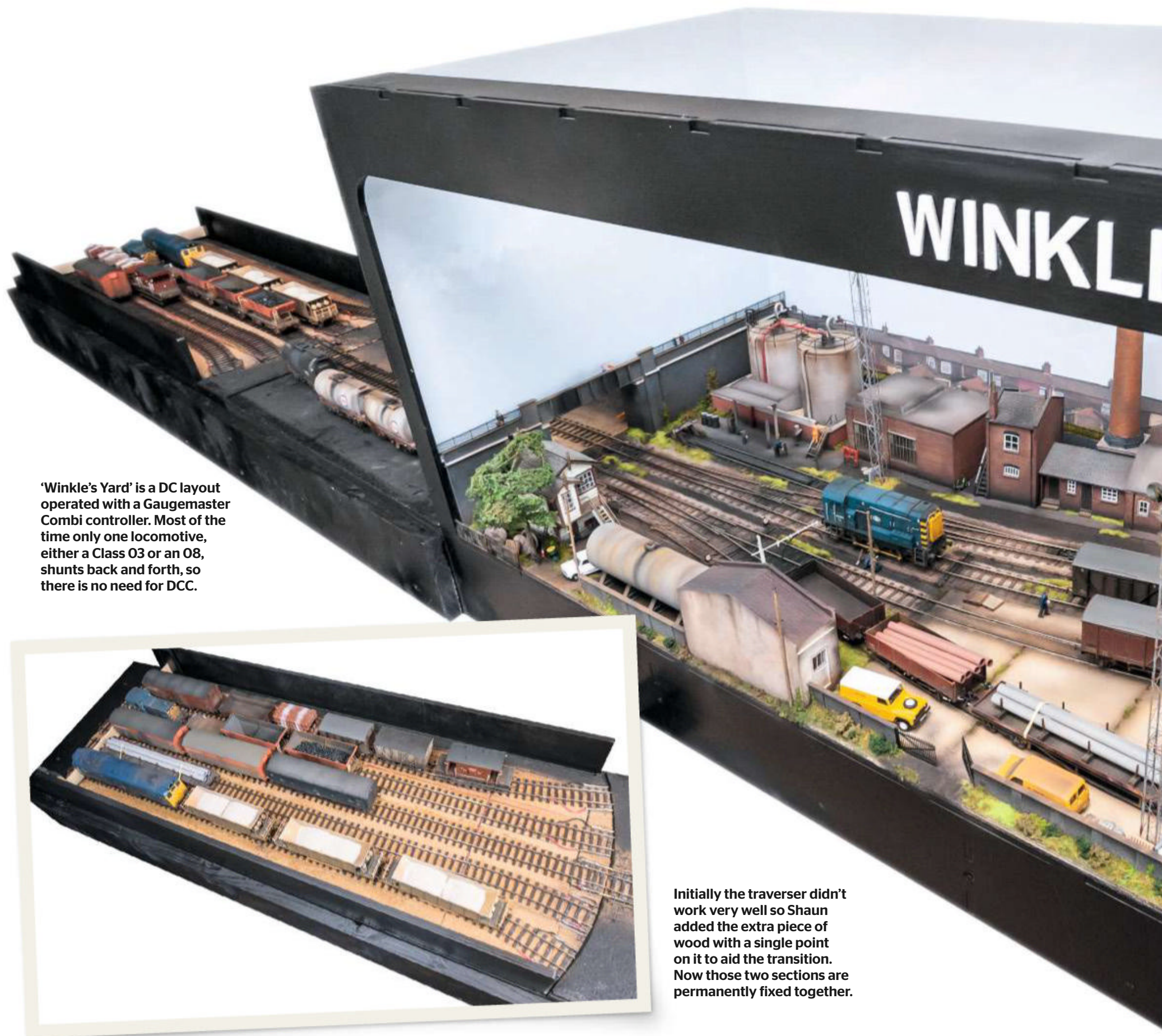


“I made a point of adding dark patches using an airbrush where locomotives pause, to emulate oil patches”

Adding the ballasted track was such a fine job that Shaun had to use a teaspoon and do it incredibly carefully to ensure it was in the right place.



'OO' GAUGE LAYOUT **WINKLE'S YARD**



'Winkle's Yard' is a DC layout operated with a Gaugemaster Combi controller. Most of the time only one locomotive, either a Class 03 or an 08, shunts back and forth, so there is no need for DCC.

Initially the traverser didn't work very well so Shaun added the extra piece of wood with a single point on it to aid the transition. Now those two sections are permanently fixed together.

and rolling stock have been weathered using an airbrush and RailMatch paints. Another detail which is so small you could easily miss it is the small circles of grease on the locomotive buffers. It would be easy to look closely at the layout and still not pick out that detail, but it increases my satisfaction."

ILLUSION OF SPACE

While small layouts have the distinct advantage of being able to add so much more detail in a shorter time frame, there is one distinctly harder aspect. That of trying to make it appear as though it is part of a much larger world. Shaun has used every trick to create the illusion of additional space.

"At the front of the layout is a Bachmann resin building with an archway and a line passing through it. Between the sidewall and the building, I've slotted a small mirror to give the illusion of daylight and extra track continuing through the structure. At the back of the layout, I've used the common illusion of using smaller scale products to make them seem further away. Originally, I had a printed sheet of ►

Artwork: **Andrew Mackintosh**



WINKLE'S YARD



Shaun has attended quite a few exhibitions with 'Winkle's Yard' in the Anglian region with his friends Kelvin, John, Graham and Jaeson. Together with Shaun, they make up a group of like-minded modellers producing high quality exhibition layouts. It was a big incentive for Shaun to bring the layout up to a standard where it could be exhibited because he hadn't made anything that had been to a show before.



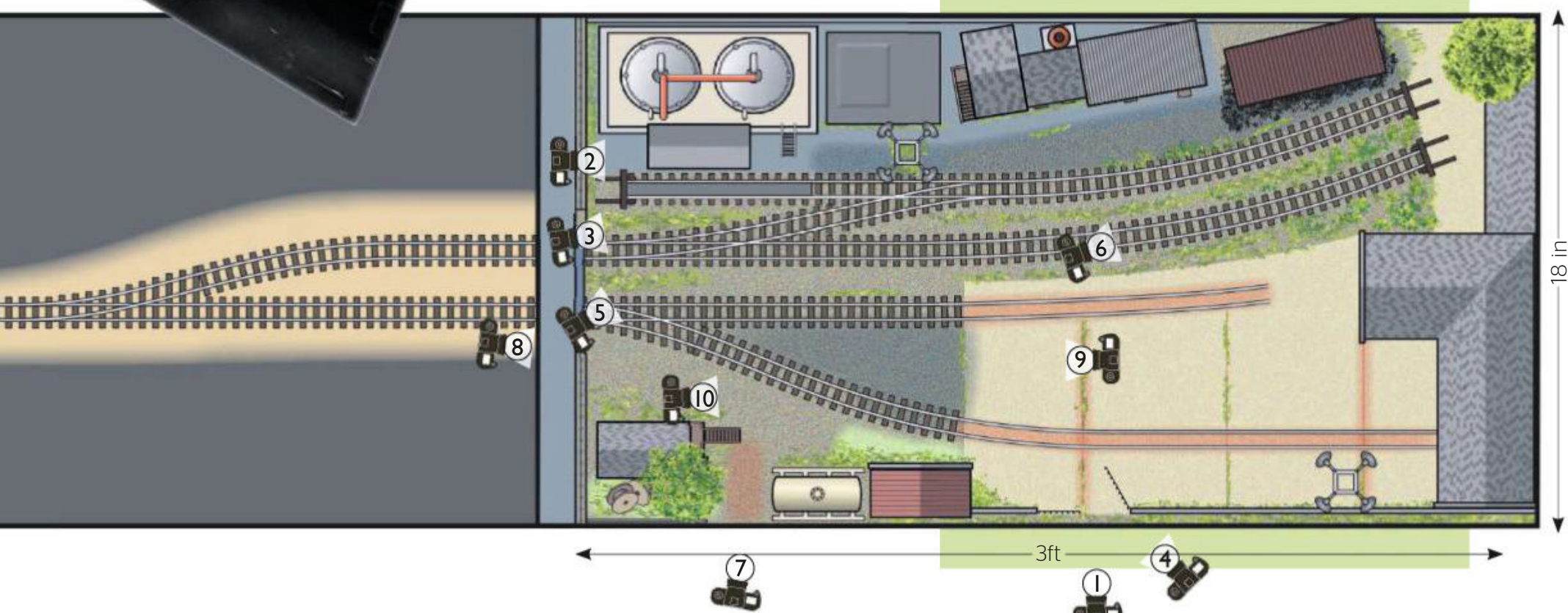
MODELLER CV: SHAUN HARVEY

With an 'N' gauge layout for my ten-year-old son and a 20ft long 'O' gauge exhibition layout in the works, a lot of my time is spent building, however I also like to read and draw and have sold a few drawings in the past.

FACTFILE: 'WINKLE'S YARD'

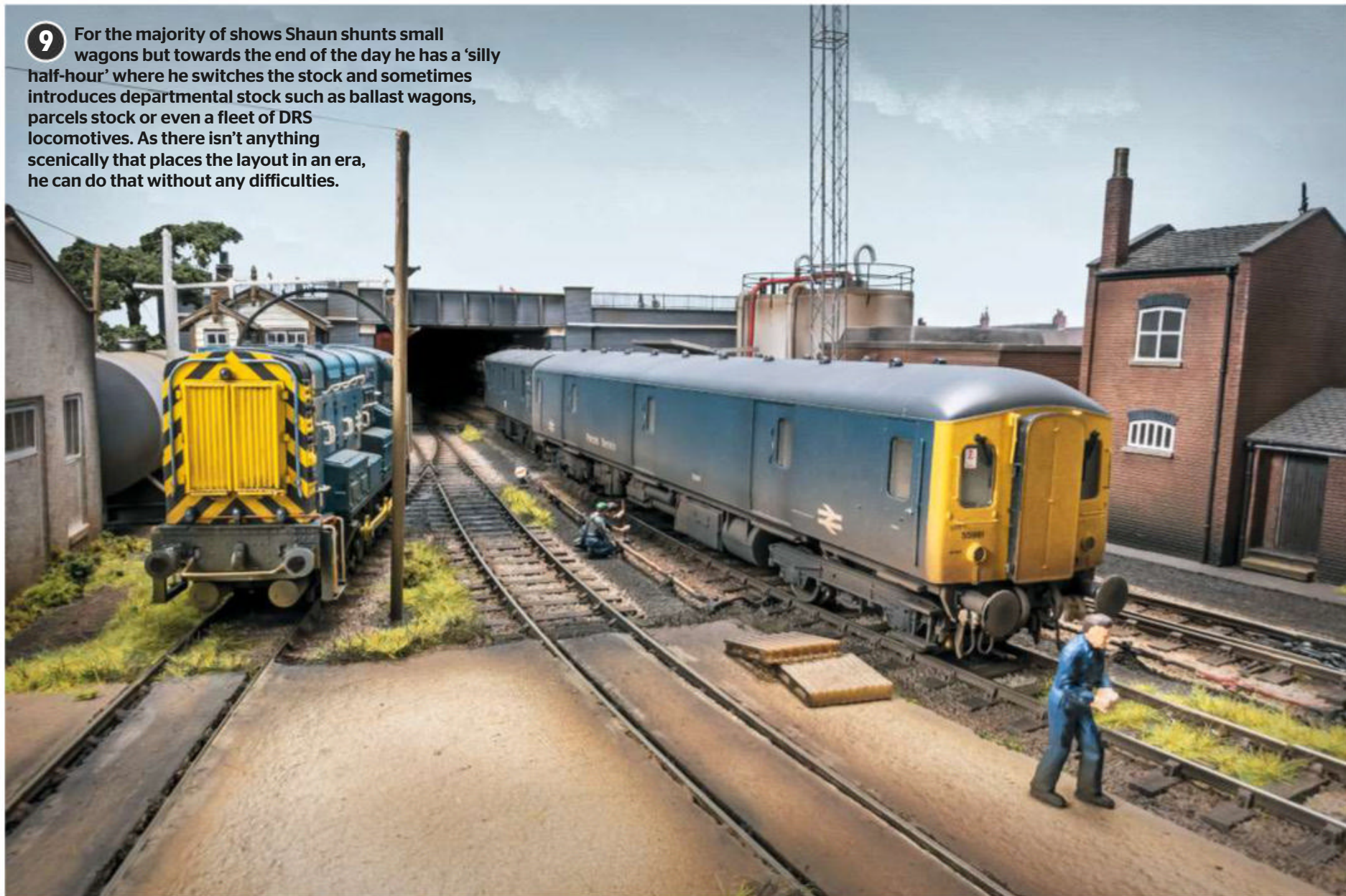
Gauge: 'OO'

Size: 3ft by 18in



'OO' GAUGE LAYOUT **WINKLE'S YARD**

9 For the majority of shows Shaun shunts small wagons but towards the end of the day he has a 'silly half-hour' where he switches the stock and sometimes introduces departmental stock such as ballast wagons, parcels stock or even a fleet of DRS locomotives. As there isn't anything scenically that places the layout in an era, he can do that without any difficulties.



'OO' gauge terraced houses but I wasn't happy with how they looked as they seemed far too big so I substituted them for a row of 'N' gauge ones and I'm much happier with the illusion and sense of distance. In front of those, I added 'N' gauge fencing to run along the back of the layout on top of the brick wall to make it appear as though only a small part of the depot was on show."

Another way to trick the eye is by introducing height, forcing the viewer to change their angle of perception. Shaun has added both lighting towers and telegraph poles to 'Winkle's Yard', although he discovered how fragile they were, at great cost.

"The two towers are constructed from fine etched brass and one day while the layout was stored in the garage, something was dropped onto it and one of the towers was bent to a 90° angle! As I had already stuck it down by this point, I had to prise it off and fix another in its place. The telegraph poles also have EZ Line coming from them to the buildings around the scene. This is incredibly fine and I often forget that it's in place until I try to reach across and catch my hand on it.

"I'd like to thank Kelvin Barnes for supporting me over the last few years and for giving me the opportunity to exhibit my layout. I'd also like to thank John, Graham and Jaeson who, along with myself and Kelvin, make up the Norfolk Model Railway Syndicate. We are not a club but we exhibit a large number of layouts at exhibitions in Norfolk, Suffolk and further afield on occasions. Finally, I'd like to thank Anne and her family at Great Eastern Models. I think it's important to support your local model shop and they really are a great shop worthy of a visit."

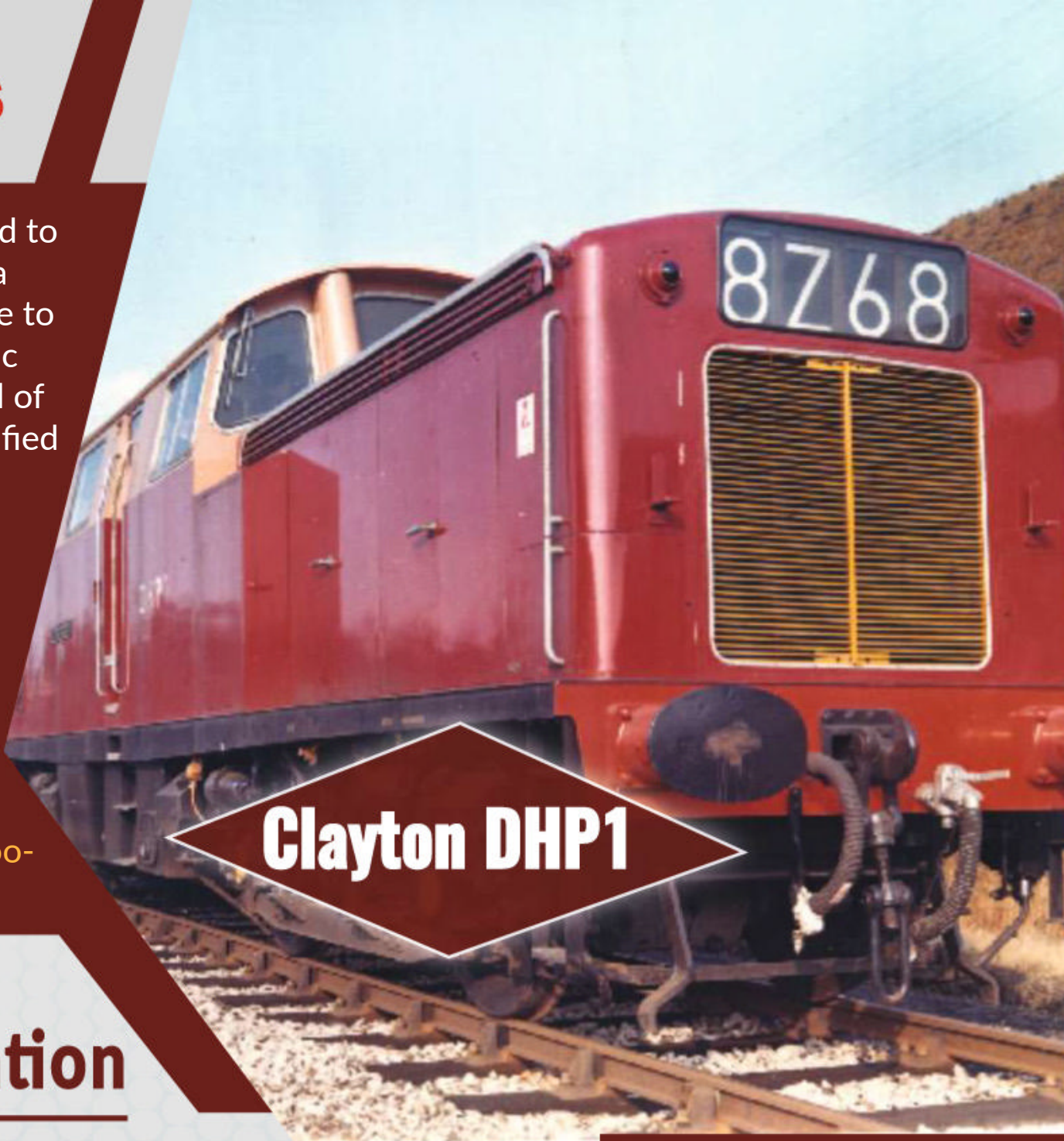
There's little doubt that across the country at this



very moment there are modellers with an urge in their minds to build a layout and it just will not go away. Shaun had the same one, acted on it, and six months later has a superb model that both he and viewers at exhibitions can enjoy. Don't ignore that voice in your head – it might just be an ingenious idea that will bring you a fantastic layout for years to come. **MR**

We proudly announce that we intend to produce the Clayton DHP1. It was a demonstrator ordered by Rolls Royce to showcase their engines and hydraulic transmission, with help from Col Fell of 10100 Fell Loco fame. Clayton modified the Class 17 drawings to suit the requirement as they were designed around the same time, although the 17 was about 4 feet longer but the general layout was identical, testing didn't go to plan and it was soon relegated to works shunter for the final 2 Class 17's being built (the 2 with Rolls Royce engines).

<https://krmodels.co.uk/collections/oo-gauge/products/clayton-dhp1>



Clayton DHP1

Model Specification

- ▶ 21-pin DCC socket with easy access
- ▶ Directional LED Lighting
- ▶ Heavy die-cast metal chassis with central motor and flywheels giving powerful performance
- ▶ Separately fitted wire handrails and sandpipes
- ▶ Etched grilles
- ▶ Sprung buffers
- ▶ Flush glazing
- ▶ Available in OO Gauge.
- ▶ DCC Ready (£165.00), and DCC Sound TBC.



BR livery guide

BR's livery history can be shunted into five main phases. **George Dent** has compiled a list of the main locomotive liveries employed between 1949 and 1992 – and what paints you need to model them.

The British Transport Commission set about defining a unified identity for the railway following nationalisation in 1948. This was never going to be an easy job and the first year of British Railways' existence was, therefore, one of experimentation, as illustrated by the first forays into the creation of standardised colour schemes for locomotives and rolling stock.

Once a series of liveries was settled upon – and a new logo devised – the railways' painters soon got to work. However, things didn't remain static for

long, as tweaks were made to colours, schemes and logos, some liveries were discarded altogether... and then the Modernisation Plan happened.

The rush to phase out steam engendered a whole new raft of liveries for diesel and electric traction and, again, a period of experimentation was followed by a standardisation of sorts. But even this new phase wasn't to last long, before the 'Corporate' era arrived. Within 20 years, that too had given way to Sectorisation and the inevitability of privatisation.

As we can gather, Britain's railways

haven't stood still for long, especially in terms of visual design and railway liveries. Here is a digest of the main BR liveries applied to steam, diesel and electric locomotives between 1949 and 1992. It's by no means an exhaustive list – that would fill an entire book – as there were countless variations and one-off schemes. However, I've also included lists of my recommended paints for each scheme, while there's no shortage of lining and decal options, from the likes of Fox, HMRS and Modelmaster (see panel) to help you complete your painting projects.

PERIOD 1 EXPERIMENTATION

When we think of particular steam locomotive classes, a distinct colour often springs to mind. Conjure up an image of a 'Jubilee' or a 'Castle', for instance, and the last colour you'd associate them with is Apple green. And yet this vivid shade was trialled on two such locomotives during BR's livery experiments.

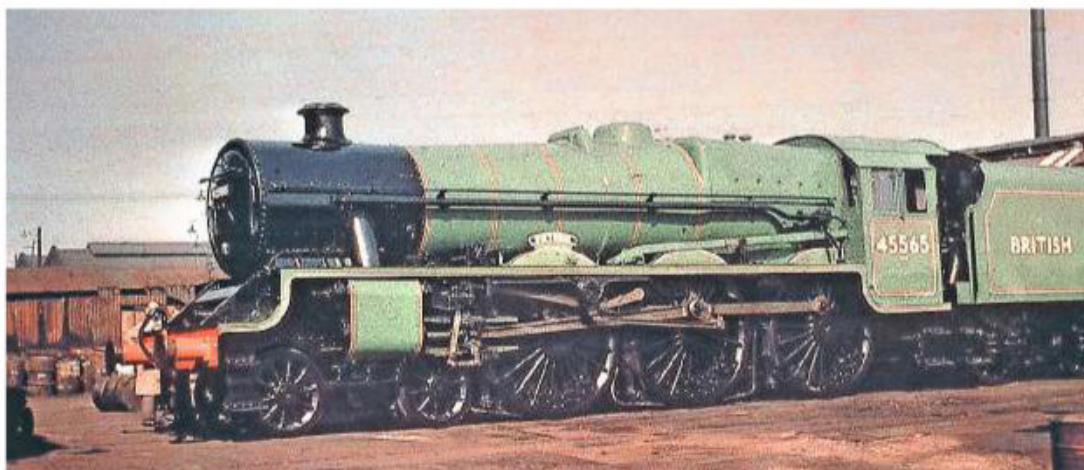
Looking back, there wasn't much in the way of originality in these nascent schemes. Indeed, each of the pilot liveries – and those that were subsequently adopted – harked back in some way to BR's 'Big Four' and pre-Grouping predecessors.

In lieu of a definitive livery specification, BR's early years were notable for the many improvised schemes, in terms of colours and lining arrangements, while 'Big Four'-era liveries also continued to appear on new and refurbished locomotives. The new BR numbers and BRITISH RAILWAYS lettering may have been applied, but the type-faces and colours often differed according to region. For example, the Southern Region was still employing Bulleid 'Sunshine' lettering.

Right: We must be thankful that this truly awful combination wasn't chosen! This sickly shade of Apple green, applied to 'Jubilee' No. 45565 *Victoria* at Derby Works in 1948, even extends to the cab roof and has made the orange lining look pink. Apple green was also applied to 'Battle of Britain' No. 34064 *Fighter Command* while ex-GWR 'Castles' received a pale green lined with grey and red. J.M. JARVIS/COLOUR RAIL



Above: It wasn't just a colour scheme that BR had to arrange: it also had to devise a numbering scheme to remove the possibility of duplicated numbers. The initial solution was to give each locomotive a region prefix: Peppercorn 'A2' No. E531 *Bahram* is in typically early BR condition at York in 1949, as it also wears LNER livery but with British Railways lettering. ERNEST SANDERSON/COLOUR RAIL



PERIOD 2 STANDARDISATION

EXPRESS BLUE

Introduced: 1949

Locomotives treated: ex-LMS 'Duchess'/'Princess Royal', ex-LNER 'A1'/'A3'/'A4'/'A10'/'W1', ex-GWR 'King', ex-SR 'Merchant Navy'

Livery notes: A striking shade of blue, similar to that used by the Caledonian Railway in pre-Grouping days, was embellished with black and white lining and vermillion red bufferbeams. The scheme was reserved for top link Class 8P express passenger traction only.

Recommended paints

Enamel

- ◆ RailMatch 321 BR Steam Loco blue, 305 Bufferbeam red, 419 Black
- ◆ Phoenix P102 BR Steam locomotive blue, P135 Bufferbeam red, P975 Black



BR's experimental blue was originally applied to No. 35024 *East Asiatic Company* with three red bands. This only lasted a few days. Classmate 'MN' No. 35017 *Belgian Marine* shows off the final, darker version of BR express blue with white and black lining at Nine Elms in July 1949. FRIENDS OF NRM/COLOUR RAIL

STANDARD GREEN

Introduced: 1949

Locomotives treated: ex-LMS rebuilt 'Patriot' & 'Jubilee'/'Royal Scot', ex-LNER 'A2'/'B2'/'B3'/'B17', ex-GWR 'Castle'/'Star', ex-SR 'WC'/'BB'/'LN'/'King Arthur'

Livery notes: Lined in orange and black, this green livery was intended for use on 'other' express locomotive types and the list above includes only those that received the scheme under the original 1949 plan.

With 'Express Blue' proving quick to discolour, it wasn't long before this lined green livery became the standard livery for all express passenger steam locomotives, right up to 1968. The shade of green was lightened slightly in 1954 and newly built BR 'Standard' steam classes and some early diesel locomotives also received this scheme if their intended duties matched the necessary criteria. Last-built '9F' 92220 *Evening Star* was the only one of its class to receive the livery.

Recommended paints

Enamel

- ◆ RailMatch 300 BR Standard Loco green (post-1954), 305 Bufferbeam red, 419 Black
- ◆ Phoenix P100 BR Standard Loco green (pre-1954), P101

BR Standard Loco green (post-1954), P135 Bufferbeam red, P975 Black

Acrylic

LifeColor UA819 BR Standard Loco green (pre-1954), UA814 BR Standard Loco green (post-1954), UA820 Signal red, LC52 Black Humbrol RC405 BR Standard Loco green



Above: Fresh out of Swindon Works, 'Castle' No. 4077 *Chepstow* Castle's wheels have been painted black but the rods were left burnished - and soon gained a layer of surface rust. The handrails are 'body colour' - 'Kings' had them burnished - the brightwork is polished and the post-1956 BR coat of arms is centred on the tender panel. BILL POTTER



Left: No. 70010 *Owen Glendower* shows off unlined BR green, viewed from Patricroft's coaling tower circa 1965. This lighter shade of green was introduced in 1954. Unlined green was carried by passenger classes towards the end of steam. JIM CARTER/RAIL PHOTOPRINTS

LINED & PLAIN BLACK

Introduced: 1949

Livery notes: Gloss black, with a pseudo-LNWR white/grey/red lining, was allocated to all mixed-traffic and lesser passenger steam locomotive types. Eventually applied to various new BR 'Standard' locomotives built during the 1950s.

Goods and shunting locomotives received a plain coating of gloss black, with the only adornments being red bufferbeams, off-white numerals and BR logos.

Recommended paints

Enamel

- ◆ RailMatch 419 Black, 305 Bufferbeam red
- ◆ Phoenix P975 Black, P135 Bufferbeam red

Acrylic

- ◆ LifeColor LC52 Black, UA820 Signal red



William Stanier's 842 'Black Fives' were the archetypal mixed traffic locomotive and were surprisingly uniform in the lined black livery, though they received unlined black towards the end. No. 44795 is fresh from overhaul at St Rollox works on May 28 1959 and shows off its red boiler and cylinder lining (fireboxes were unlined on all BR schemes) and red/grey lining on cab and tender sides and running plate valance. Only the cabside numbers are non-standard, being the larger Gill Sans typeface peculiar to this ex-Caledonian Railway works. R.C. RILEY



Above: A simplified version of BR's mixed traffic lined black was also applied to the 'EM1' Bo+Bo electrics employed on the Woodhead route. 26022 and 26015 plus an unidentified classmate rest outside the single road shed at Dinting in 1954. W. OLIVER/COLOUR RAIL



Left: Due to the amount of goods still being carried by rail at the time, this drab black scheme was applied to a huge number of locomotives, of all sizes and power classifications, from the new BR 'Standard' classes to the diesel shunters, including the 350hp 0-6-ODE. F. HORNBY/COLOUR RAIL

Right: Perhaps most closely associated with the iconic LMS 'Twins', most of the early diesel, gas turbine and electric prototypes were turned out with a gloss black body, with silver applied to the roof, bogies and horizontal bands. Cast numerals added a final touch of class. B.J. SWAIN/COLOUR RAIL



PERIOD 3 TRANSITION



Initially, the green was applied to the whole body, save for a mid-grey roof. Soon, however, a little more care was taken to improve the lines of most classes, with the addition of off-white window surrounds and body bands. COLOUR RAIL

STANDARD LOCOMOTIVE GREEN (DIESEL)

Introduced: 1955

Locomotives treated: Virtually all main line diesel, electro-diesel and some electric locomotives

Livery notes: The host of new traction types emerging from the 1955 Modernisation Plan were bedecked in variations of BR's 'Standard' locomotive green livery. Bufferbeams were vermilion red and yellow warning panels, of various sizes, began to appear in the mid-1960s.

Recommended paints

Enamel

◆ RailMatch 300 BR Standard locomotive green (post-1954), 301 Sherwood green, 302 Yellow green, 320 Diesel locomotive roof grey, 203 Rail white, 305 Bufferbeam red, 304 Warning panel yellow (early), 419 Black

◆ Phoenix P101 BR Standard locomotive green (post-1954), P136 Sherwood green, P138 Yellow green, P115 Diesel locomotive roof grey, P149 Rail white, P135 Bufferbeam red, P134 Warning panel yellow (early), P975 Black

Acrylic

◆ LifeColor UA814 BR Standard locomotive green (post-1954), UA823 Sherwood green, UA824 Diesel locomotive roof grey, UA826 Warning panel yellow (early), LC51 White, LC52 Black

Right: Southern Region electro-diesels gained a lighter shade of green, to match the region's coaching stock, as illustrated by 'JA' E6002 at Eastleigh in March 1962.

L.E. ELSEY/COLOUR RAIL



Above: The standard green was sometimes complemented by lighter panels of Sherwood green or even a duck egg blue band or the lime green band applied to the 'Hymek' diesel-hydraulics. In fact, there were so many variations that it's difficult to call it a 'standard' livery at all! DAVE COBBE COLLECTION/RAIL PHOTOPRINTS





On the Western Region's maroon 'Westerns' and 'Warships', bufferbeams were black and the upper roof panels treated to a dark blue-grey shade, which was also similar to that used on passenger stock. DAVE COBBE/RAIL PHOTOPRINTS

MAROON

Introduced: 1957

Locomotives treated: Class 42/43/52, ex-LMS 'Princess Royal'/'Duchess'

Livery notes: The Western Region unexpectedly painted a number of its diesel-hydraulic 'Westerns' and 'Warships' in BR's standard coaching stock maroon, complete with circular BR totems starting with the D1000s when introduced in 1962.

Recommended paints

Enamel

RailMatch

306 BR Maroon, 310 Roof dark grey, 304 Warning panel yellow (early), 305 Bufferbeam red, 419 Black

Phoenix

P108 BR Maroon, P130 Roof dark grey, P134 Warning panel yellow (early), P135 Bufferbeam red, P975 Black

Acrylic

LifeColor

UA815 BR Maroon, UA828 Roof dark grey, UA826 Warning panel yellow (early), UA808 Bufferbeam red, LC52 Black



The London Midland Region harked back to LMS days by turning out a number of Stanier 'Pacifics' in red. Originally, these were lined orange/black/orange as per BR green, but it wasn't long, however, before the better looking LMS black and yellow lining style took over, as illustrated by 'Duchess' No. 46245 *City of London*. GEOFF PLUMB

ELECTRIC BLUE

Introduced: 1959

Locomotives treated: Class 77*/81/82/83/84/85/86

Livery notes: With BR's upgrade of the West Coast Main Line came electrification and a fleet of AC electric locomotives was ordered from various sources. The first 'AL1' (later Class 81) arrived in 1959 and sported a very bright and handsome coat of blue, appropriately termed 'Electric blue'. A band of white surrounded the windows and covered the cab roofs, while the bufferbeams wore the traditional bright red.

* At least one member of class, with post-1956 BR emblem.

Recommended paints

Enamel

◆ RailMatch 315 Electric blue, 203 Rail white, 305 Bufferbeam red, 304 Warning panel yellow (early), 419 Black

◆ Phoenix P140 Electric blue, P149 Rail white, P135 Bufferbeam red, P134 Warning panel yellow (early), P975 Black

The finishing touch came from a set of polished cast aluminium lion-and-wheel emblems, worn amidships, and cast E-prefixed numbers on the cab sides. Yellow warning panels were added in the mid-1960s. This scheme was rolled out across the entire AL1-6 fleet of WCML AC electrics until the adoption of 'Corporate' blue towards the end of the 1960s. COLOUR RAIL



PERIOD 4 THE 'CORPORATE IMAGE'

RAIL BLUE

Introduced: 1965

Locomotives treated: The whole BR fleet!

Livery notes: BR's drive to present a modern, corporate look to the railway manifested itself in the widespread application of blue paint. In truth, it was much more than that, with an impressive design manifesto called *The Corporate Image* created to re-brand the railway with new typography, signage and uniforms, as well as modern architecture and new trains to replace the outdated practices of steam days.

The first attempt at a new livery came in the form of the experimental XP64 train, which consisted of all-new coaches and a Brush Type 4 (later Class 47) D1733. The whole train was turned out in a light blue livery, with the carriages enhanced with a wide grey band from just below waist height to just below the roof line.

After evaluation, the shade of blue was modified, to what became known as Monastrol blue, and subsequently, Rail blue. The livery was embellished with the new double-arrows logo, along with running numbers in the new Rail typeface.

Recommended paints

Enamel

- ◆ RailMatch 207 Rail blue, 304 Warning panel yellow (early), 419 Black
- ◆ Phoenix P132 Rail blue, P134 Warning panel yellow (early), P975 Black

Acrylic

- ◆ LifeColor UA813 Rail blue, UA826 Warning panel yellow (early), LC52 Black



Class 56 56056 had only been accepted to traffic the day before, when it was photographed at Toton on March 13 1979. Rail blue looked attractive when freshly applied and was applied to the vast majority of BR's locomotive, multiple unit and coaching stock fleets, yet it soon weathered to a rather dreary appearance. It had fallen out of favour by the 1980s, yet some locomotives soldiered on in this scheme into the 1990s. GORDON EDGAR/RAIL PHOTOPRINTS

LARGE LOGO BLUE

Introduced: 1978

Locomotives treated: Class 37/47/50/56/73

Livery notes: Stratford Depot's unofficial habit of applying silver roofs to its diesel fleet provided some respite from the all-pervading 'banger blue' in the late 1970s, leading to a few experimental changes to the corporate livery. Larger white double arrows, wrap-around yellow cabs, black windscreen surrounds and grey roofs eventually coalesced into 'large logo' blue, which would soon become a firm favourite with enthusiasts of a certain age.

Recommended paints

Enamel

- ◆ RailMatch 207 Rail blue, 206 Rail grey, 202 Warning panel yellow (late), 419 Black
- ◆ Phoenix P132 Rail blue, P133 Rail grey, P148 Warning panel yellow (late), P975 Black

Acrylic

- ◆ LifeColor UA813 Rail blue, UA816 Rail grey, UA827 Warning panel yellow (late), LC52 Black



Only a handful of different locomotive classes received the scheme, beginning with a trial 'official' application to an all-new Class 56. Once the scheme was approved, it became standard for the rest of the '56s' under construction and was also rolled out to Classes 37, 47 and 50 as part of their respective refurbishment programmes. RAIL PHOTOPRINTS

RAILFREIGHT

Introduced: 1982

Locomotives treated: Class 08/20/26/31/37/47/56/58

Livery notes: Pioneered by the new-build Class 58, the original Railfreight scheme was an adaptation of 'Large Logo' BR blue, but with a medium grey substituting for the blue element. Again, large white double arrows adorned the bodysides and bufferbeams returned to red. It wasn't until 1984 that other locomotives began to appear in this scheme and it was soon superseded by the Sectorisation scheme, but a huge number of locomotives received the livery nonetheless.

Recommended paints

Enamel

RailMatch

- 226 Railfreight grey, 202 Warning panel yellow (late), 204 Rail red, Phoenix
- P182 Railfreight grey, P148 Warning panel yellow (late), P135 Signal red, P975 Black

Acrylic

LifeColor

- UA829 Railfreight grey, UA 827 Warning panel yellow (late), UA829 Railfreight red, LC52 black



Class 58 58008 shows off a slight variation to the Railfreight livery, known as 'red stripe', which featured a big red stripe at solebar level. Fetching red and white Railfreight logos adorned the cab sides at alternate ends to the black TOPS numbers. COLOUR RAIL

PERIOD 5 SECTORISATION

INTERCITY & SCOTRAIL

Introduced: 1984

Locomotives treated: Class 25/31/37/43 (HST)/47/73/86/87/89/90/91

Livery notes: Vying with the Railfreight sector scheme for the most iconic late British Rail livery, the 'Executive' scheme reflected InterCity's desire to distinguish itself from the Corporate blue and grey which now extended across almost all passenger stock. Devised for APT and the IC125 fleet, it was also adopted for the new Gatwick Express stock, with Class 73/1s similarly adorned. The Manchester Pullman Mk 2 rake soon followed suit and, once the new 'Executive' livery had spread across InterCity's carriage and locomotive fleet, BR's premier sector gained its sought-after sleek and modern new image.

Initially, locomotives received half-height, wraparound yellow warning panels and yellow cab roofs. The dark grey extended from waist height to cover the main roof section and windscreens, while the lower sides carried bands of white, red and light grey.

The arrival of a pair of elegant swallow emblems on an HST set in 1987 led to a refined version of InterCity, that also had the lower band of light grey replaced with an off-white to give a brighter overall effect. The corporate era InterCity lettering on the locomotive sides were replaced with a slender italic typeface.

In comparison, the original 'Executive' scheme now looked passé, so the 'Mainline' version was created, which had the stripes extended towards the ends of each side, the yellow warning panels extended to full height and cab roofs painted dark grey, along with the rest of the roof.

Recommended paints - InterCity/ScotRail

Enamel

RailMatch

201 Executive dark grey, 200 Executive light grey, 203 Rail white, 202 Warning panel yellow (late), 204 Rail red, 419 Black, 208 Regional Railways light blue (ScotRail)

Phoenix

P147 Executive dark grey, P146 Executive light grey, P148 Warning panel yellow (late), P178 NSE White, P149 Rail white, P975 Black, P153 Provincial light blue (ScotRail)



Left: The slender italic InterCity typeface and swallow logos were earmarked for the new Class 90 and 91 locomotives under construction at Crewe Works at the time, and was also applied to a select number of top link diesel and electric locomotives. GEOFF PLUMB



Left: From 1989, the 'Mainline' version was tweaked further, with the Executive dark grey replaced with a slightly different shade (though the difference was difficult to discern) and a reversion to half-height yellow warning panels. D. PYE/COLOUR RAIL



Below: ScotRail was launched as a brand in 1983 and its livery would be a variation on that of InterCity - the red stripe was replaced by cornflower blue to represent the Saltire. BRIAN ROBBINS/RAIL PHOTOPRINTS

NETWORK SOUTH EAST

Introduced: 1986

Locomotives treated: Class 03/08/09/33/47/50/73/86

Livery notes: BR created the London & South East business sector in 1982, but it took four years before the new Network South East brand was launched. Part of a wholesale shake-up of train services in the South East of England, NSE operations reached out towards the Midlands and South West.

Initially, the livery was based around 'Tartan' blue, enhanced with a striking set of white, red and dark grey horizontal stripes which angled upwards at each end of the locomotive. The white element continued around the windscreens and the roof was painted Executive dark grey.

Both schemes featured white lettering, double arrows and medium sized TOPS numbers and NSE coaching stock was also treated to the same liveries (minus the upturned stripes). A few variations occurred, with plain NSE blue applied to a few Class 73s and a Class 09.

Recommended paints

Enamel

◆ RailMatch 243 NSE Dark blue, 204 Rail red, 202 Warning panel yellow (late), 203 Rail white, 226 Railfreight grey, 201 Executive dark grey, 419 Black

◆ Phoenix P175 NSE Light blue, P179 NSE Dark blue, P176 NSE



The original NSE scheme did not wear well in service and, after only a year, a revised version was rolled out, featuring a darker shade of blue - which wrapped around the windscreens - and the stripes maintained a horizontal course. RAIL PHOTOPRINTS

red, P148 Warning panel yellow (late), P178 NSE white, P177 NSE dark grey, P147 Executive dark grey, P975 Black

Acrylic

◆ LifeColor UA829 Railfreight red, UA 827 Warning panel yellow (late), LC52 Black, LC51 White

RAILFREIGHT SUB-SECTOR

Introduced: 1987

Locomotives treated: Class 08/20/26/31/33/37/47/50/56/58/60/86/87/90

Livery notes: Known variously as the 'Triple grey' or 'Sub-sector' scheme, this livery proved to be a landmark shift in British Rail's public image. After dabbling with the idea of separate traffic sectors with the original Railfreight scheme, this vibrant new livery was clear evidence of how BR was being reshaped as a viable privatisation prospect.

Design agency Roundel was commissioned to devise a modern new corporate identity for the Railfreight business, which was split initially into six sectors: Railfreight Distribution, Railfreight Construction, Railfreight Metals, Railfreight Coal, Railfreight Petroleum and the short-lived Railfreight General. An innovative symbol, incorporating a stylised 'F' for freight, was created for each sector and these were applied to locomotives, wagons, buildings, uniforms, stationery and signage.

Recommended paints

Enamel

RailMatch

206 Rail grey, 245 Flint grey, 201 Executive dark grey, 202

Warning panel yellow (late), 419 Black

Phoenix

P151 Rail grey, P183 Flint grey, P147 Executive dark grey, P148



As well as the sector logos, the locomotives also received cast double arrows logos and depot plaques, with symbols related to each depot's locality, most of which were designed by BR staff. Furthermore, a range of locomotive namings followed, with many being chosen to reflect the commodities or businesses served by each sector. HUGH BALLANTYNE/RAIL PHOTOPRINTS

Warning panel yellow (late), P975 Black

Acrylic

LifeColor

UA816 Rail grey, UA 827 Warning panel yellow (late), UA829

Railfreight red, LC52 black

REGIONAL RAILWAYS

Introduced: 1989

Locomotives treated: Class 31/37/47

Livery notes: Away from the honeypot of London and the South East, the Provincial sector - soon re-christened Regional Railways - was moving towards the complete 'Sprinterisation' of secondary and local train services by the end of the 1980s. A raft of second generation multiple units were ordered and began to enter service in the mid-1980s. However, due to delays in delivery, locomotive-hauled stock had to remain in service and rakes of Mk 1 and Mk 2 coaching stock were duly adorned in an attractive two-tone blue and grey scheme, presenting a unified image with the new DMUs.

Matching locomotives followed, although only a relatively small quantity of Class 31s and '37s' (plus a solitary '47') were treated to the 'Reggie' scheme.

Recommended paints

Enamel

RailMatch

209 Regional Railways dark blue, 208 Regional Railways light blue, 202 Warning panel yellow (late), 200 Executive light grey, 203 Rail white, 419 Black

Phoenix

P154 Provincial Dark Blue, P208 Provincial light blue, P148

Warning panel yellow (late), P149 Rail white, P146 Executive light grey, P975 Black

Acrylic

LifeColor

UA 827 Warning panel yellow (late), LC52 black, LC51 white



Regional Railways livery comprised Aircraft blue as the main colour element (later employed by Mainline Freight), with a pale Cornflower blue stripe over white and grey. There were a few variations within this scheme, with the lower shade of grey ranging from an off-white to a more distinct grey. RAIL PHOTOPRINTS

CIVIL ENGINEERS 'DUTCH'

Introduced: 1990

Locomotives treated: Class 08/26/31/33/37/47/50/56/73

Livery notes: While BR embraced the policy of allocating locomotives to specific revenue-earning sectors, the director of civil engineering (DCE) also had a requirement for traction to work non-revenue-earning ballast and infrastructure trains. As with the other sectors, a special livery was devised for the DCE pool, with 'BR General Grey' being adopted in 1989. This dreary scheme quickly drew scorn from enthusiasts and the railway press, leading to a hasty revision. Within a year, a new specification had been drawn up, incorporating a horizontal shoulder-level band of yellow, separating the charcoal grey bodywork and dark grey roof.

Recommended paints

Enamel

RailMatch

226 Railfreight grey, 202 Warning panel yellow (late), 201 Executive dark grey, 419 Black

Phoenix

P182 Railfreight grey, P148 Warning panel yellow (late), P147 Executive dark grey, P975 Black

Acrylic

UA829 Railfreight grey, UA 827 Warning panel yellow (late), LC52 Black

The similarity of this colour scheme to Netherlands Railways' livery led to the 'Dutch' nickname. Another improvement to the original scheme was the addition of cast aluminium double arrows logos and a set of depot emblems on the sides of the cabs. RAIL PHOTOPRINTS



DID YOU KNOW?

Some RailMatch paints are also available in acrylic format, with the same reference codes prefixed with a '2'.

RAIL EXPRESS SYSTEMS

Introduced: 1991

Locomotives treated: Class 08/47/86/90

Livery notes: The remaining sector created by BR in the late 1980s dealt with the transport of parcels and mail on behalf of Royal Mail. In contrast to the razzmatazz surrounding the launch of the Railfreight Sub-sector livery in 1987, the Parcels sector had to wait a few more years before being bestowed with its own corporate identity.

In 1990, locomotives began to emerge in a striking Post Office red livery, with grey roofs, black windscreen surrounds and half-height warning panels. No logos or markings were applied other than cast BR double arrows and small white TOPS numbers. Within months, however, a different scheme was created, featuring an Executive dark grey roof and upper bodyside band.

This too was short-lived and a much more interesting - and definitive - version followed in 1991, featuring a 'Granite' grey roof and upper bodyside band, which didn't run the full length of the body, but dropped downwards to form part of an unusual, somewhat abstract logo consisting of four pale blue horizontal bars. Was it meant to represent a letterbox?

Recommended paints

Enamel

RailMatch

241 R.E.S./Royal Mail red, 251 R.E.S. Granite grey, 202 Warning panel yellow (late), 419 Black

Phoenix

P185 R.E.S./Royal Mail red, P212 R.E.S. Granite grey, P148 Warning panel yellow (late), P975 Black

Acrylic

UA 827 Warning panel yellow (late), LC52 Black



Whatever the R.E.S. logo might have meant, it certainly proved controversial at the time. However, when seen on a whole rake of parcels stock, it made for an eye-catching sight. RAIL PHOTOPRINTS

Where to find the paint?

◆ RailMatch **Availability:** Howes Models
Tel: 01865 848000 **Web:** www.howesmodels.co.uk

◆ Phoenix **Availability:** Phoenix Precision Paints
Tel: 01268 730549 **Web:** www.phoenix-paints.co.uk

◆ LifeColor **Availability:** The Airbrush Company
Tel: 01903 767800 **Web:** www.airbrushes.com

Where to find the decals?

◆ Fox Transfers **Tel:** 01163 194950 **Web:** www.fox-transfers.co.uk

◆ Modelmaster Decals **Tel:** 01292 289770
Web: www.modelmaster.uk

◆ HMRS **Web:** www.hmrs.org.uk/transfers



Reviews

In-depth and unbiased reviews of the latest products

102 Mini test

Our experts rate five of the best products. This month: Peter Marriott lists his favourite scenic glue products.



86



86 **EFE Rail
Class 17**

90 **EFE Rail
Hunslet 'Austerity'**

94 **Oxford Rail
12t tank wagon**

96 **Irish Railway Models
42ft wagons**

98 **Dingo Servo Micro
10 point motor**

99 **Woodland Scenics
Peel 'n' Place**

100 **Omen Miniatures
Paint**



90



94

Our reviewers

Richard Foster

His forte is steam locomotives.

Chris Gadsby

Tests models to their limits.

Ben Ando

Model Rail's 'N' gauge specialist.

Chris Leigh

Wrote his first review in 1964 and hasn't stopped since!

Our ratings

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

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

How we test

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





EFE Rail Class 17

◆ GAUGE 'N' ◆ MODEL EFE Rail E84504 Class 17 Bo-Bo 8601, BR Green with full yellow ends ◆ PRICE £119.95 (RRP) ◆ AVAILABILITY Bachmann stockists

It is often said that esoteric or unsuccessful prototype locomotives can make for the most interesting and attractive models, in complete contrast to how the real things performed, and I'd argue that EFE Rail's new Class 17 falls squarely into this category.

The real locomotives were an abject failure. Disastrously high failure rates meant that they were often deployed in pairs just to ensure they got back to the depot, not to mention that the work that they were designed for was rapidly dwindling just as they were being introduced.

The provenance of this 'N' gauge model is a story in itself. It was developed by DJ Models but the company went into administration just before it went

into production. The rights were acquired by EFE Rail, an offshoot of Bachmann Europe created to bring models to the market that are not produced by Bachmann's parent company Kader.

The Class 17 has long been one of the missing links in British 'N' gauge. It is gratifying to see that this model was not lost forever – and EFE Rail is to be applauded for resurrecting it.

Our review sample represents 8601, in BR green with full yellow ends, which dates it, roughly, between 1968 to its withdrawal in 1971. It's supplied in a standard clear plastic jewel box in a protective EFE-branded card sheath. The design is an elegant nod to British Rail's original Corporate Image manual, using shades of Rail blue and red and its 'British Rail' typeface.

The instructions provided are comprehensive, however while the model is clearly associated with Bachmann UK it does say that the model must be serviced by Heljan, which seems slightly odd.

CLAYTON CHARACTER

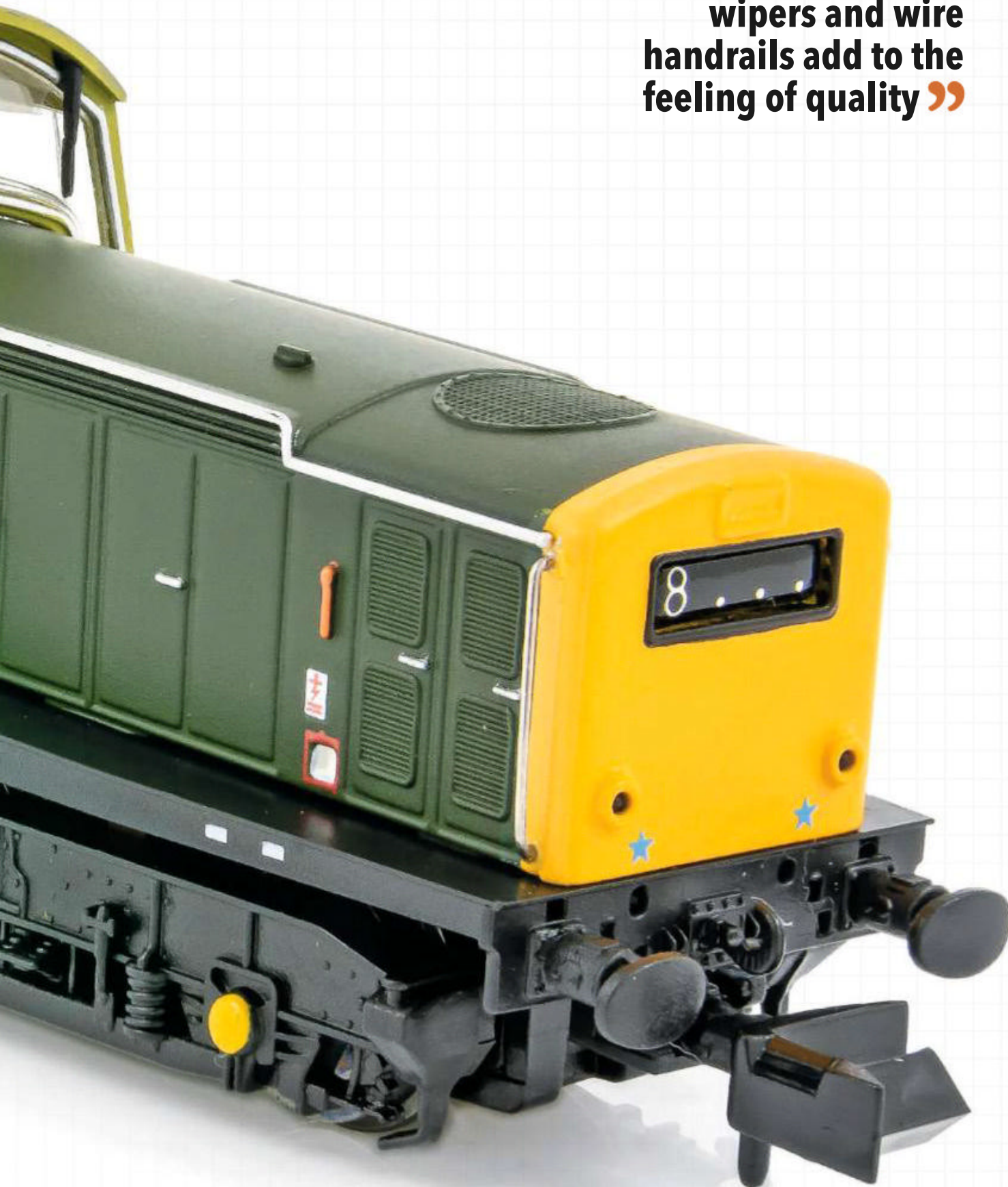
That aside, the model itself is most impressive. The character of the Clayton design has been well captured, with mouldings that show some real finesse and a very open-looking cab. Fine details such as the separate windscreen wipers and wire handrails add to the feeling of quality and the paint finish is neat and clean, with numbers and logos clearly printed.

There is a slight question mark over the model's height



(see table on p89). In my view, this is down to a combination of the thickness of the roof – possibly to make it thick enough to mould – and a cab front that's

“Fine details such as the separate windscreen wipers and wire handrails add to the feeling of quality”



very slightly too tall. However, it's not apparent on casual inspection, or when the model is operating on the layout.

There are a couple of other niggles. To my eye, the headcode box is a fraction too shallow, and the bogie sideframes are wider than scale, meaning that the solebar does not have the distinctive overhang of the prototype. The snowploughs are intended to fit into the NEM socket but the tongue does not follow the standard design, so I was wary of fitting it

fully in case it distorted the coupler pocket.

The model has working directional red tail lights and the headcode boxes are illuminated from behind by white LEDs; this is very effective and not overly bright. It also comes with a Next18 DCC decoder interface.

This brings a very welcome innovation. The interface is entirely contained within the battery box, which can be easily unclipped, so there's no need to dismantle the entire

locomotive. I hope that future EFE 'N' gauge releases copy this feature, although it does mean that the battery box moulding is a little boxier than the prototype. This is most noticeable on the side where the end of what should be an air tank is visible and, I suggest, unavoidable.

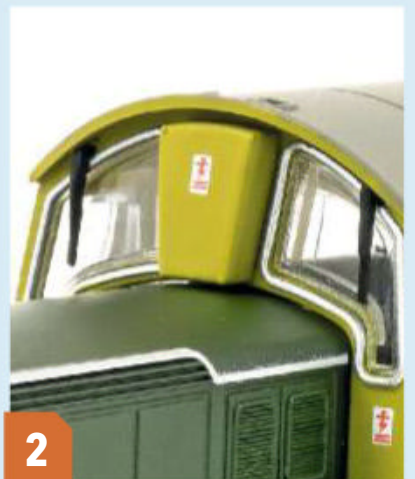
The couplers are in kinematic NEM sockets, meaning that auto magnetic couplers, such as Dapol Easi-shunts - can easily be added. It also comes with a large number of accessories - 13 for each end comprising miniature ➤

3 things we like



1

One headcode box reads just '8...' - an apparently nonsensical code but the sort of display carried by many locomotives of the late 1960s and early 1970s.



2

Centre cab windscreens with separate wipers.



3

Neat fan mouldings.

Performance

Under power the EFE Rail, which only tips the scales at 43g, is smooth and controllable and well able to haul a reasonable prototype load. The real things were hardly renowned for their pulling power...

EFE Rail Class 17 - in detail



Factfile: Class 17

The Class 17's problems were largely down to demands from British Railways management. The successful EE Type 1 (later Class 20) had one flaw. With its cab at one end, visibility with the nose end leading was poor. BR wanted a cab in the middle to improve visibility, which is what Clayton Equipment Co. designed but, to reduce the height of the bonnet, it had to fit two smaller engines either side, rather than one larger one. BR ordered 117 straight from the drawing board.

The locomotives were delivered between 1962 and 1965. Clayton built D8500-D8587 and D8588-D8616 were supplied by Beyer Peacock.

However, the two six-cylinder Paxman engines were so problematic that it meant that some Class 17s lasted in service for less than five years, and the entire class was withdrawn by the early 1970s after barely a decade.



1: 8601 at an unrecorded location on an unrecorded date. Built by Beyer Peacock, it was delivered new to Gateshead shed in September 1964. It spent two years (1968-70) at Thornaby and for its last four months in 1971 was allocated to Haymarket. All 117 locomotives were delivered in BR green with small yellow panels, but a handful received full yellow ends. COLOUR RAIL

2: The Clayton-built Class 17s were delivered with red diamond control equipment and were sent to work in Scotland while the remainder, with standard blue star controls, were deployed in northern England. D8507, one of the Clayton machines, was one of the two dozen that were repainted into full BR blue before withdrawal. TREVOR OWEN/COLOUR RAIL

3: Although three Class 17s found a home at the Railway Technical Centre at Derby, the only one to survive - D8568 - was sold into industrial use. Usually based at the Chinnor & Princes Risborough Railway, it visited the Spa Valley Railway in 2018 and was photographed outside Tunbridge Wells West shed along with 'Deltic' 55019 and Class 25 D7612. DAVID STAINES

System builder

Other items to complement this model...



WAGONS

The Graham Farish range is packed with suitable four-wheel wagons for your Class 17 to haul, from 'Conflats' and opens to these 12t box vans. **Price:** From £17.95

Availability: Bachmann stockists

ACCESSORIES

Class 17s spent a lot of time hanging around depots so why not create an authentic depot scene with Geoscenics' oil spill kit? **Price:** £12.00

Availability: Geoscenics

Tel: 07811 673341

Web: www.geoscenics.co.uk



ANOTHER CLASS 17

What's the perfect partner for a Class 17? That's right, another Class 17 for the when the first one breaks down. There are 11 '17s' to choose from.

Price: From £119.95

Availability: Bachmann stockists



RECOMMENDED READING

◆ *An Illustrated Historical Review of the Clayton Type 1* by John Hooper (Book Law Publications)

snowploughs, air and vacuum brake pipes, electrical connectors, sockets and lamp irons. The instructions illustrate where these should be fitted.

This will be a very welcome

addition to the motive power roster for many 'N' gauge enthusiasts and not only is it an excellent debut from EFE Rail but it establishes it as a leading brand in British 'N'. **(BA)**



EFE RAIL CLASS 17

OVERVIEW	Body: Plastic
Manufacturer: EFE Rail by Bachmann	Chassis: Alloy with plastic parts
Ref. No. E84504 Unit No. 8601	Weight: 43g
Scale/gauge: 1:148 scale, 9mm gauge 'N'	Min. curve radius: R1 (263.5mm)
	Wheel back-to-back: 7.1mm

ELECTRICS	
Electrical system: 12V DC two-rail	headcode and red tail lights
Motor type: Five-pole	DCC ready: Next18 socket
Lights: Directional white illuminated	

MECHANISM	
Drive system: Power to both bogies via cardan shafts	Flywheel(s): Yes
	Traction tyres: No

DIMENSIONS	PROTOTYPE	1:148 SCALE	MODEL
Length	50ft 7¼in	104.2mm	104.5mm
Height	12ft 8in	26.1mm	28.0mm
Width	8ft 9¼in	18.1mm	18.2mm
Wheel diameter	3ft 9¼in	6.75mm	7.4mm
Bogie wheelbase	8ft 6in	17.5mm	17.5mm

SERVICING
How to dismantle: Model not designed to be dismantled.
Where to oil: On gears.

REVIEW VERDICT

PROS. Long-awaited model of an unsuccessful yet appealing prototype.

CONS. Minor shape issues around headcode and bogie frames.

LOOKS 9/10

PERFORMANCE 8/10

FEATURES 9/10

DECORATION 9/10

VALUE FOR MONEY 10/10

90%





EFE Rail Hunslet 'Austerity'

◆ **SCALE** OO ◆ **MODEL** EFE Rail E85004 Hunslet 'Austerity' 0-6-OST Amazon, NCB green weathered ◆ **PRICE** £169.95 ◆ **AVAILABILITY** Bachmann stockists

It has been a strange year. Despite the fact that I haven't been near the *Model Rail* office for five months and all the railway modelling events that I would normally attend have been cancelled, that hasn't stopped the launch of a ready-to-run model railway manufacturer.

Well, EFE Rail isn't really a new manufacturer, just a new horse in the Bachmann Europe stable. And to crown it all, one of EFE Rail's first releases isn't actually a new model either, but a reincarnation of a model with a more than slightly chequered history. Indeed, it appears that EFE Rail is an

umbrella title to cover models which are being sold by Bachmann but which did not originate in the Barwell drawing office, and if you turn the EFE Rail box upside-down you find that the 'J94' is actually being distributed by Bachmann on behalf of Kernow Model Rail Centre.

For me, the Hunslet 'Austerity' 0-6-OST, known on BR as 'J94', harks back to my childhood. I first built a 'J94' as a Kitmaster plastic kit some 60 years ago. That Kitmaster kit passed to Airfix and from there to Dapol, where it prompted a ready-to-run model. In due course the tooling was sold to

Hornby, which has tweaked it and continues to produce it today.

MODERN MAKEOVER

However, it was generally reckoned that the 'J94' was ripe for a makeover to 21st-century standards. DJModels duly released, in 2016, an up-to-date Hunslet 'Austerity' with tooling that was adaptable to various detail changes, including BR and 'industrial' bunker shapes and other variations to suit the large number of operators of the full-size locomotives. It was destined to be the only 'OO' steam-outline offering direct from

DJM (not counting commissioned models) and it was not without its faults and its critics.

It's that model which has now resurfaced under the new EFE Rail label in a sturdy dark green and turquoise-coloured box. In fact, that packaging seems to be rather more classy than the main range Bachmann Branchline products. As I had not reviewed, or indeed taken much notice of, the DJM 'J94', I borrowed a mint example for comparison purposes, to see just what – if anything – EFE Rail has done to overcome the criticisms of the DJM original.

A side-by-side comparison of

“It looks like a Hunslet ‘Austerity’ and there’s a delicacy to the detail which includes separately fitted parts and wire handrails”



the model itself, but Kernow, though the marking is hardly prominent. The paperwork accompanying the model makes it very clear that it is covered by a Bachmann warranty, however, and the contact address is also Bachmann’s.

There’s no denying that DJM made a pretty good job of this locomotive. It looks like a Hunslet ‘Austerity’ and there’s a delicacy to the detail which includes separately fitted parts and wire handrails. The smokebox door handles look a little under-nourished but a check with photographs of the real thing reveals that they were. I was warned to look out for oval rather than round ejector pipes under the cab steps, which was an error on the original model and, sure enough, they are still the same.

One small change appears to have been made to the access to the chassis for decoder fitting. On the DJM model, the decoder socket was accessed by removing the smokebox front, which is held in place by a magnet. The same arrangement is used on the EFE model but just the smokebox door is removable, rather than the whole front. Despite this revision to the tooling, the front aspect of the locomotive is unchanged and as good as ever.

GOOD WEATHERING

Our review sample is factory-weathered and this is one of the best factory weathering jobs I’ve seen. It’s a far cry from the early days of factory weathering when a smattering of brown paint would make the locomotive look like it had been ploughing a field. ➤



the two locomotives leaves one in no doubt that they have largely come out of the same tools. The EFE Rail sample, as National Coal Board unnumbered *Amazon* is virtually identical to the DJ Models Longmoor Military Railway No. 196 that I borrowed for comparison. Indeed, the only obvious difference I could spot was that the LMR locomotive has two pairs of triangular flange plates bracing the bufferbeams, where *Amazon*, presumably correctly for the prototype, has only single plates.

The other noteworthy feature of the new model is that it is not branded EFE or Bachmann on



3 things we like



1

Easy decoder access.



2

Very quiet running.



3

Accurate shape.

Performance

It was the mechanism and the performance of the DJM Hunslet, which caused controversy. Unusually for a British steam-outline model, it has gear drive to all three axles, which was something of a novelty to British modellers. Problems with the DJM ‘J94’ manifested themselves in what became known as ‘cogging’, a jerkiness when descending a gradient with a train in tow. Unsure of what to look for, I consulted a couple of videos on YouTube, one posted by contributor Paul Marshall-Potter.

The video showed that the ‘cogging’ was a much more severe phenomenon than I had expected, the locomotive coming almost to a halt at the same point on every wheel revolution. It was also clear that by no means all the DJM ‘Austerities’ were similarly afflicted, many customers expressing satisfaction with theirs.

As I do not currently have access to *Model Rail*’s test track with its gradients, I made a temporary test gradient at home, on which I could vary the slope and test both the original

DJM and the EFE Rail models. I tested both locomotives running light and with six wagons, both pushing and pulling the train up and down the gradient. I started with a 1-in-72 gradient and increased it eventually to 1-in-24. Neither model showed any sign of cogging, despite extensive testing. I simply could not replicate the cogging that afflicted some of the DJM originals. I grew to rather enjoy this test, as I could envisage a model of Hopton incline on the Cromford & High Peak!

I understand from Bachmann that a better quality coreless motor is the only change that has been made from the original. Certainly, the all-axle gear drive, with the coupling rods going along for the ride, is the same as it was – but maybe more precisely assembled.

In regular running on my layout, without gradients, the Hunslet took a train of 30 four-wheel wagons with only the merest hint of an occasional slip. It could restart a train of six four-wheel wagons on the 1-in-24 gradient, but seven wagons proved too much for it.

Reviews

True, there's no particular staining, of the kind one would get with a hand-weathering job, but as an all-over grubby industrial locomotive, it looks the part. Indeed, an effort has been made to depict cleaner areas on the lower tank sides and also the grease patches on the buffer heads. That's a rare detail for a factory weathering job.

The livery is NCB dark green with very fine orange and black lining but it's well covered with a layer of 'dirt' which is more pronounced on the tank top but which should, perhaps be present on areas where it isn't, such as the cab side openings, edges of steps and back of the bufferbeams. Nameplates are printed in red and 'gold' and this area of the tank sides gives an impression of, at least superficial, cleaning.

A small bag of optional customer-fit items includes vacuum pipes and air brake hoses for front and back, a front coupling hook and tension-lock couplings. These fit in self-centring NEM pockets beneath the bufferbeams. Bizarrely, considering these couplings are nothing like any prototype coupling, they have been weathered to match the model! Also, in the bag of parts is a rectangular, green-painted panel to match the livery, with details on one face, but the instruction leaflet gives no clue as to what this is or where it is intended to be fitted.

What can I say other than 'Welcome, EFE Rail!?' The 'J94' is a commendable offering and there are clearly some interesting models to come, particularly the ready-to-run Tube trains. But the EFE Rail 'Austerities' are already here and in the shops, so why not brighten up 2020 with one? (CJL)

REVIEW VERDICT

PROS. Accurate body shape, smooth and quiet chassis.

CONS. Pricy but otherwise little of note.

LOOKS	9/10
PERFORMANCE	9/10
FEATURES	9/10
DECORATION	9/10
VALUE FOR MONEY	7.5/10

87%



EFE RAIL 'J94' AMAZON NATIONAL COAL BOARD

OVERVIEW		DIMENSIONS	PROTOTYPE	1:76 SCALE	MODEL
Manufacturer: EFE/Bachmann	Chassis: Metal/plastic				
Ref. No. E85004 Unit No. N/A	Weight: 157g	Length over buffers	30ft 4in	121mm	121mm
Scale/gauge: 4mm:1ft 'OO'	Min. curve radius: R2 (438mm)	Height	12ft 1¼in	49mm	50mm
Body: Plastic	Wheel back-to-back: 14.5mm	Width	8ft 0in	32mm	33mm
ELECTRICS		Wheel diameter	4ft 3in	17mm	17mm
Electrical system: 12V DC	DCC ready: Next18	Wheelbase	11ft 0in	44mm	44mm
Motor type: Coreless		SERVICING			
Lights: No					
MECHANISM		How to dismantle: Two screws under cab.			
Drive system: Gear drive to all three axles	Flywheel(s): 1	Where to oil: See instructions.			
	Traction tyres: No				

WHICH PRODIGY CONTROLLER?

Prodigy is compatible with most other DCC systems and manufacturers' DCC Decoders. It's strength is 'simplicity without compromise' and Prodigy systems can grow with your layout, allowing you to use the system at a level appropriate to you, your layout, and style of operation. All Prodigy Walkaround Controllers have backlit displays as standard.

Prodigy Express consists of a Base Station, Walkaround Controller, and Power Supply and is an ideal entry level system for a newcomer. Extra features can be unlocked by using the **DCC14 Prodigy Advance Walkaround Controller**.

Prodigy Advance2 is our best selling DCC Controller. It consists of a Base Station, Walkaround Controller, and a Power Supply, and is suitable for operating most sizes of model railway.

Prodigy Wireless offers all the features of the **Prodigy Advance** unit but this system offers you wireless control, giving you maximum freedom to operate your layout. Its rechargeable handset and radio transmission ensures easy and reliable performance.

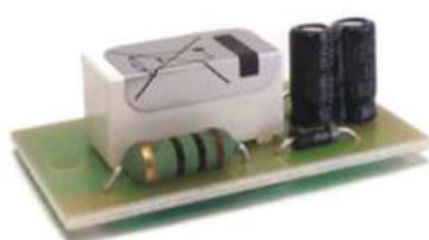
DCC CONTROLLER STARTER PACKAGES

DCC01 Prodigy Express Starter Package
Most Suited for HO/OO/N Scale Layouts



BEST FOR
Beginners

- INPUT: 15-16V regulated DC at 2 amps
- OUTPUT: DCC Signal with 14.5V amplitude
- MAXIMUM CURRENT: 1.6 amps
- MAXIMUM NUMBER OF WALKAROUNDS: 20
- ADDRESS CAPABILITY: 2 Digit or 4 Digit
- SPEED STEPS: 14/28/128
- ACCESSORY FUNCTIONS: 28 (F0 to F28)
- DOUBLE HEADING
- PROGRAM & MAIN TRACK PROGRAMMING
- "READ LOCOMOTIVE" CAPABILITY



DCC80 DCC Autofrog

The DCC Autofrog is a simple switch that automatically changes the frog polarity of your electrofrog point. With the frog powered by the DCC80 it will automatically detect the incoming polarity of the wheels and switch the frog to match. The DCC Autofrog is available as a single item, and also as a handy pack of three.

Find us on Facebook:
@Gaugemaster
Follow us on Twitter:
@Gaugemaster
Follow us on Instagram:
@gaugemaster_controls

DCC02 Prodigy Advance2 Starter Package
Most Suited to HO/OO/N Scale Layouts



BEST FOR
General Layouts

- INPUT: 15-14V DC 3.5 amps
- OUTPUT: DCC Signal with 14.5V amplitude
- MAXIMUM CURRENT: 3.5 amps
- MAXIMUM NUMBER OF WALKAROUNDS: 99
- ADDRESS CAPABILITY: 2 Digit (1-127) or 4 Digit (1-9999)
- SPEED STEPS: 14/28/128
- ACCESSORY DECODER AND ROUTE SETTING
- DOUBLE HEADING
- PROGRAM & MAIN TRACK PROGRAMMING
- "READ LOCOMOTIVE" CAPABILITY



DCC05 Prodigy WiFi

This unit allows you to run your Prodigy-powered layout from your phone or tablet, using one of the recommended apps on Android or IOS. The Prodigy WiFi is compatible with the JMRI Engine Driver and WiThrottle apps.

The Prodigy WiFi is also available as a starter pack, combined with a Prodigy Express under part number **DCC06**.

See our website for articles showing how to use the two apps which are compatible with the Prodigy WiFi on your specific operating system.
Android: JMRI Engine Driver
iOS: WiThrottle

DCC04 Prodigy Advance Wireless Starter Package
Most Suited to OO/HO/N Scale Layouts



BEST FOR
Large Layouts

- ALL THE FEATURES OF DCC02 PRODIGY ADVANCE
- WIRELESS RADIO CONTROL (UK Approved)
- OUTSTANDING RANGE (80ft Plus)
- BUILT-IN RECHARGABLE BATTERY
- BATTERY CHARGE LEVEL INDICATOR
- OPERATES WIRED & WIRELESS WALKAROUNDS
- PROGRAM & OPERATE WHILE CHARGING
- FREEDOM & MOBILITY DURING OPERATION

DCC40 Auto Reverse Module

This useful module allows digital modellers to overcome a problem that faces most railway modellers at some point: how to operate a reverse loop or turntable on their layout without needing to change the polarity on the track.



Controllers & Handsets	
DCC01	Prodigy Express Package £215.00
DCC02	Prodigy Advance2 Starter Package £365.00
DCC04	Prodigy Advance2 Wireless Starter Package £535.00
DCC05	Prodigy WiFi £115.00
DCC06	Prodigy Express WiFi Digital Control System £315.00
DCC13	Prodigy Advance2 Wireless Walkaround £215.00
DCC14	Prodigy Advance2 Backlit Walkaround £165.00
DCC51	Prodigy Wireless Conversion Set £285.00
Accessories	
DCC11	Prodigy Extension Plate £45.00
DCC30	Prodigy DCC Accessory Decoder for 4 Accessories £39.95
DCC32	Point Motor Decoder w/CDU 4 Way (Twin Pack) £85.00
DCC49	Prodigy DCC Booster Unit (8 Amp) £225.00
DCC55	Prodigy Advance Wired Computer Interface £60.00
DCC60	Spare Plug for Gaugemaster Prodigy £4.50
DCC62	Prodigy Universal Lead (2m) £6.50
DCC63	Prodigy Advance Power Supply Unit £25.00
DCC64	Prodigy Power Pack Lead £7.50
DCC65	Prodigy Express Power Supply Unit £25.00
DCC66	Controller Caddy Walkaround Holder £7.50
DCC71	Prodigy DC Adaptor Plate/Decoder Tester £11.25
DCC77	Prodigy Walkaround Adaptor £11.25
DCC80	DCC Autofrog £7.50
BPDCC80	DCC Autofrog (Pack of 3) £20.00
DCC81	Standard Point Motor Decoder w/CDU £18.00
BPDCC81	Standard Point Motor Decoder w/CDU (3) £50.00



Oxford Rail 12t tank wagon

◆ **GAUGE** 'OO' ◆ **MODEL** Oxford Rail OR76TK2001 12t tank wagon No. 64, Mobil livery ◆ **PRICE** £21.95 ◆ **AVAILABILITY** Oxford Rail stockists or www.oxforddiecast.co.uk

Tank wagons have always been popular subjects for ready-to-run models. They present an opportunity to have bright colours and logos among the dull browns and greys of most freight vehicles. I well recall the bright red Hornby-Dublo Royal Daylight tank wagon that was part of my first train set. Years later, in a bid for greater accuracy, I painted it black!

It's been a while since we've seen a new steam-era tank wagon in 'OO' and it's especially good to see Oxford Rail venture into this field. Its **RCH** 1907

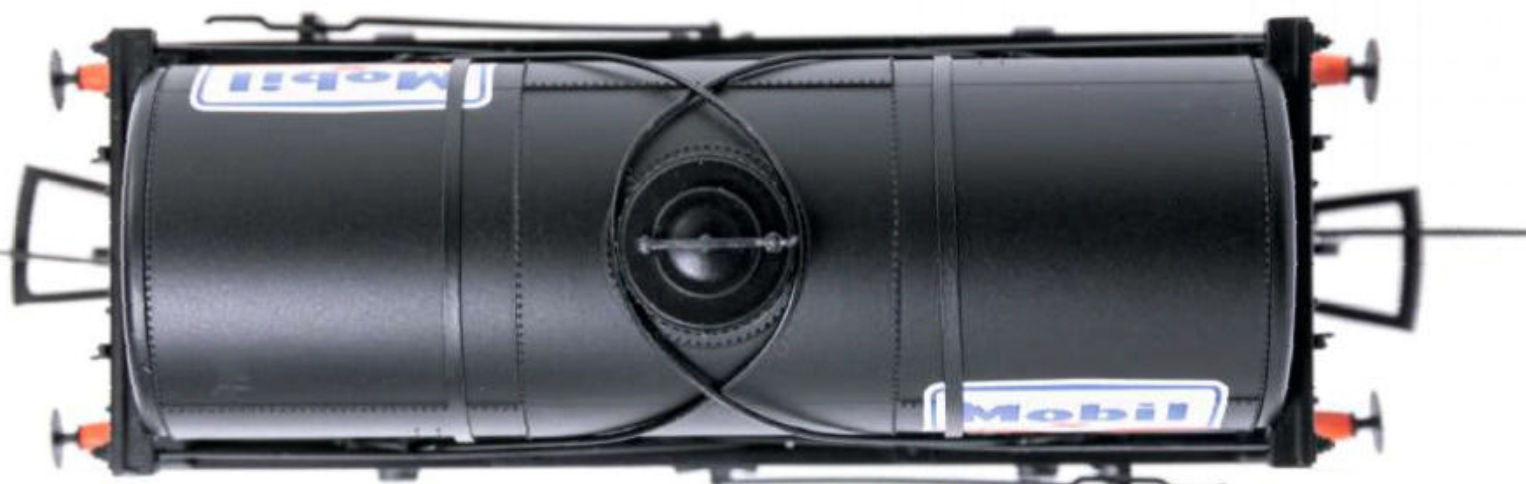
12t tank wagon suits the 'Big Four' period right through to the green diesel era on BR. Yes, there are photographs of wagons similar to the Oxford model and bearing the same Mobil logo, delivering diesel fuel to the King's Cross fuelling point alongside 'Deltics' and Brush

Type 2s in the early 1960s.

What's more, Oxford's little model is a corker! It is difficult to track down photographs of prototypes, at this time, to know whether the correct combination of chassis, tank and livery suits all the versions which Oxford has delivered but

the sample in black Mobil livery certainly looks the part.

For a start, it's tiny. The tank is just 21mm (5ft 3in) in diameter and just under 70mm long, on its scale 10ft 6in wheelbase chassis. It weighs just 42g. It appears that it may be based on a preserved



Railway Clearing House: Set common standards and settled financial arrangements across Britain's railway companies.

example at Didcot Railway Centre, though that vehicle currently carries Royal Daylight colours, a livery not yet covered among Oxford's half dozen liveries, which depict tanks carrying everything from fuel oil to sulphuric acid and even lager.

IMPRESSIVE CHASSIS

And does that chassis impress! There's no sticking a round tank on a basic wagon chassis here. No, Oxford's model has a skeletal underframe that's more 'daylight' than plastic. Brake blocks align with the treads of the blackened split-spoke wheelsets which have metal rims and moulded spokes.

The brake levers look as if they would move within the ratchets. Tapered shank buffers are fitted with blackened metal heads but the *pièce de résistance* is surely the provision of moulded coupling hooks with separate three-link chains. This means that, for those whose layout allows it, the clip-fit tension-lock and its pivoted NEM pocket could be discarded and the prototypical coupling used instead – surely a first for a ready-to-run model.

Above the solebar, the model is equally impressive, with the cables, straps and shackles which, on the real thing, hold the tank in place, all finely modelled. Indeed, it is the very fine nature of the detail that really impresses. It is all set off by a nice satin black paint finish and a wealth of lettering, particularly on the solebars where we can clearly read that

“The *pièce de résistance* is surely the provision of moulded coupling hooks with separate three-link chains”



the wagon was registered by the Midland Railway in 1910 to carry 10 tons. It was built by Birmingham RC&W in 1910 and for repairs it was to be sent to Wagon Repairs Ltd in Birmingham. The Mobil logo, printed in red, white and blue, represents a version used after the Second World War.

There has been some discussion online about whether the

liveries are absolutely appropriate for the type of tank and wheelbase represented by the model. Frankly, it's not something I'd lose sleep over. Like private owner open wagons, the tank offers lots of opportunities for interesting, colourful and finely executed liveries and with an RRP of under £25 – and in the low £20s, what's not to like? (CJL)

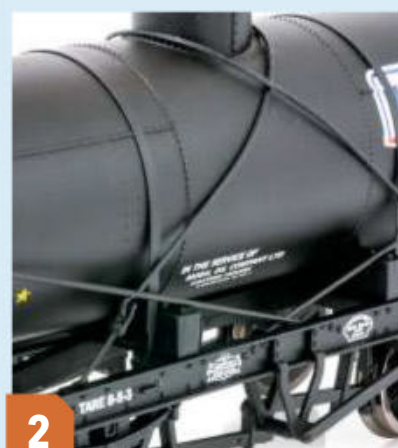


3 things we like



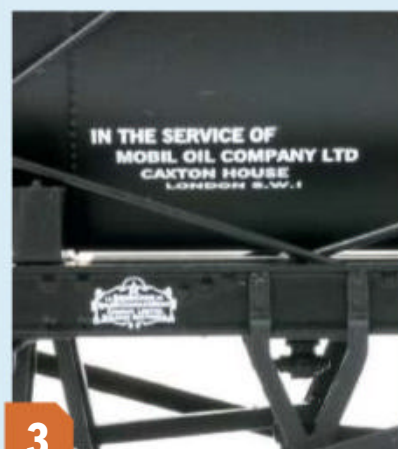
1

Skeletal underframe.



2

Cable, straps and turnbuckles.



3

Fine printing.

REVIEW VERDICT

PROS. Appearance, finish, price.

CONS. Nothing of note.

LOOKS	9/10
PERFORMANCE	9/10
FEATURES	9/10
DECORATION	9/10
VALUE FOR MONEY	9/10

90%



IRM 42ft wagons

◆ **GAUGE** 'OO' ◆ **MODEL** Irish Railway Models IRM1073D 42ft spoil wagons Nos. 30106/30131, CIÉ red oxide; IRM1087-WS 42ft weed spray wagons Nos. 30286/20287/30190, CIÉ red oxide ◆ **PRICE** IRM1078-D €100.00; IRM1087-WS €147.56 ◆ **AVAILABILITY** Irish Railway Models Ltd Unit 8, The Hyde Building, The Park, Carrickmines, Co. Dublin D18 Y3F9 Ireland **Web** www.irishrailwaymodels.com

When we reviewed Irish Railway Models' 42ft container flat a couple of issues ago, we commented that modelling these 42ft 9in flats, the backbone of CIÉ's container wagon fleet since 1971, was a good choice given that not only are they still CIÉ's flagship container wagon but that they've been adapted for a multitude of other uses.

Well, that flexibility is reflected on these pages as we have two interesting and eye-catching

versions of the container flat to review: a spoil carrier twin-pack and a weed spray triple pack.

It was the shiny silver kegs on the beer carrier that caught our eye in MR277. Now we have two different body styles to enjoy - the understated spoil carrier and the exciting looking weed spray train.

Below the bodies, both wagons are identical to the keg wagon. It's an impressive piece of work, with its delicate-looking yet strong die-cast construction and fine brake details. The buffers are still sprung and the tension lock

couplers - body-coloured in order to reduce their visual impact - still sit in sprung NEM pockets. The bogies are identical too, complete with fine moulding and rotating axle ends. The only difference is that the coil springs are blue and the horn blocks are green.

SPOT-ON SHAPE

Let's look at the spoil wagons first. Our sample depicts the later style of bodies, with the hoods between them and deflector plates at the ends. These additions help prevent spoil and ballast from dropping between the bodies and over the drawgear.

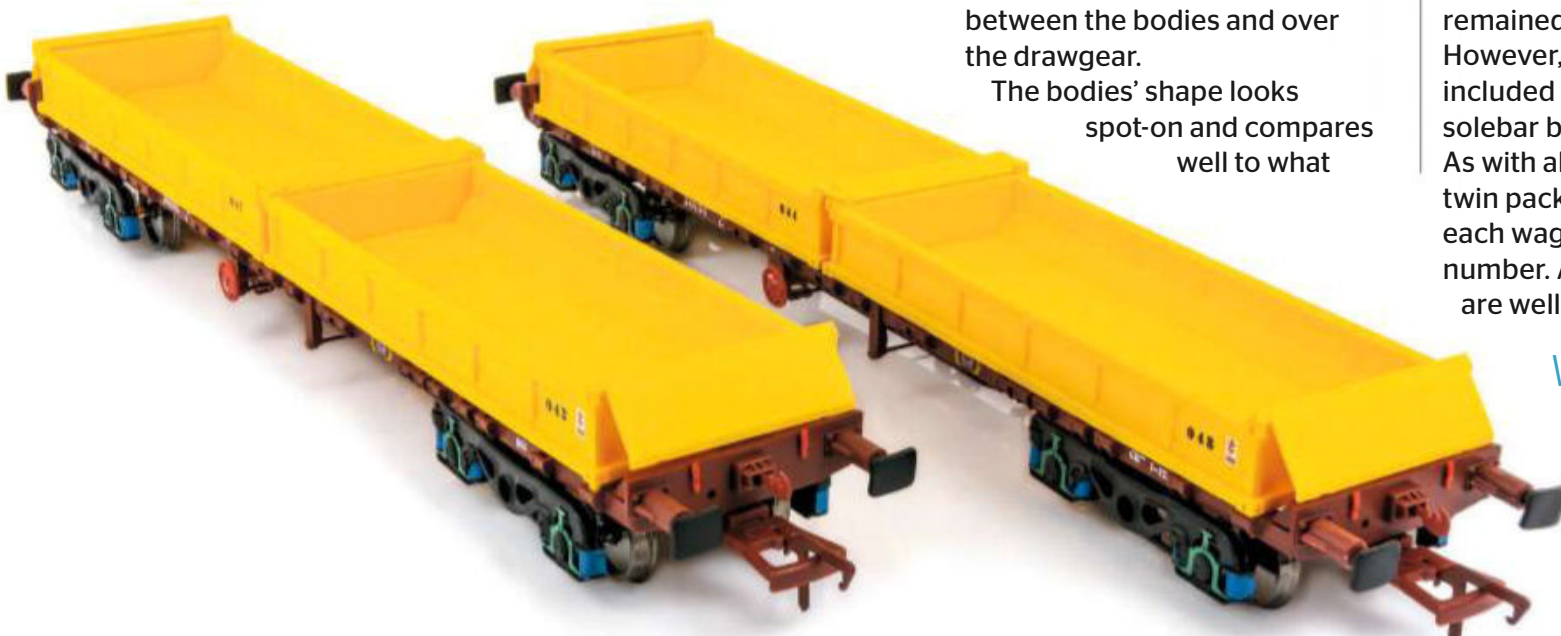
The bodies' shape looks spot-on and compares well to what

photographs and videos of these seemingly shy wagons there are online. The ribs look to be the right depth and width and the slight flare at the bottom of each recessed panel is all present and correct. The only slight niggle is that the yellow appears to be a bit 'red' when compared to the prototype's shade but it's nothing that a spoil load and some heavy weathering couldn't fix.

There's something wonderfully utilitarian about the fact that only the bodies were painted yellow and the rest of the wagon remained in bauxite livery. However, IRM has correctly included the yellow panel on the solebar behind the works plate. As with all IRM models, different twin packs are available, and each wagon has its own running number. All the running numbers are well printed.

WEIGHTY MODEL

CIÉ unveiled its new-look weed-spray train in 2008/2009. It mounted the tanks



“The rivetted supports, the pipework and those curiously angled frames are accurately reproduced”



REVIEW VERDICT

PROS. Excellent variation and attention to detail, good looks, lots of features.

CONS. Handbrake wheels are fragile, questionable shade of yellow.

SPOIL WAGON

LOOKS	9/10
PERFORMANCE	9/10
FEATURES	9.5/10
DECORATION	8.5/10
VALUE FOR MONEY	9/10

90%

WEEDKILLER WAGONS

LOOKS	9/10
PERFORMANCE	9/10
FEATURES	9.5/10
DECORATION	9/10
VALUE FOR MONEY	9/10

91%

that had been used on 20ft four-wheel wagons with Bulleid triangulated underframes on to 42ft flats. The weedspray train pack contains three container flats. Two carry a pair of chemical tanks and the third has one tank and the container, which carries bags of weedkiller.

What you immediately notice is how heavy these wagons are (154g). The distinctive tanks really catch the eye and compare well with images and videos on the internet. As with the prototype, they're a simple shape with not much relief but the rivetted supports, the pipework and those

curiously angled frames are accurately reproduced.

The tank fillers look good too and though the plastic catwalks and ladders are effective, etched items might have added a touch more refinement. Just take care around the ladders as they're somewhat fragile - as, of course, are the handbrake wheels.

The container is a standard IRM 20ft container model finished in brown with CIÉ branding. Speaking of branding, the weed spray tanks are plain yellow with just overhead wire warning signs and CIÉ's wonderful logo showing railway

lines disappearing into the distance surrounded by lush green vegetation.

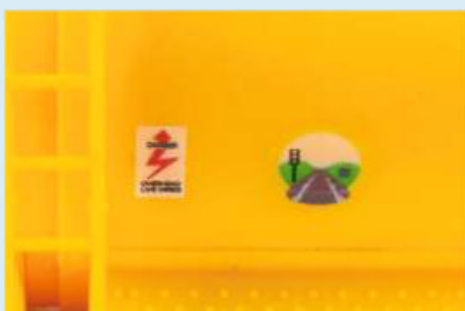
These wagons will make a fine sight behind a Murphy Models 071 Class although you will need to scratchbuild or kit-bash the control coach with the spray nozzles (a former CIÉ generator van, itself rebuilt from a BR Mk1 BG).

Both the spoil wagons and the weed spray train shows just what a versatile wagon CIÉ built and what a great choice for a model IRM has made. And, more importantly, both make modelling Ireland's railways even more tempting! *(RF)*



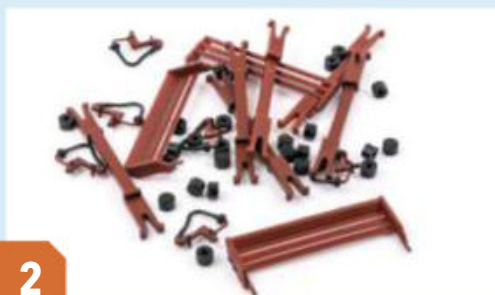
3 things we like

1 Overhead warning flashes printed only on bodies that have them in reality.



2

You get a bag of extra bits, including end boards and brake pipes. You also get coupling bars and spare axle ends.



3

Weedspray tank pipework is joined by small pieces of pipe to mimic the prototype's green hoses.



Dingo Servo Micro 10 point motor

◆ **GAUGE** Any ◆ **MODEL** Dingo Servo Micro 10 ◆ **PRICE** £6.50 ◆ **AVAILABILITY** Dingo Servo Mounts **Tel** 07754901324 **Web** www.dingoservo.co.uk

To say that there are a large number of point motors on the market would be an understatement. A quick internet search reveals solenoids, slow action motors and even ones with a DCC circuit so that you can programme them with an address and operate them digitally. In fact, the market is so full of products it's difficult to see where there's a gap for somebody to exploit. So I was sceptical when a new point motor arrived at *Model Rail* which wasn't the cheapest or the easiest to install (as self-assembly is required), and I couldn't work out what the appeal was – until I had finished building it, that is.

The point motor in question was the Dingo Servo Micro 10, and upon first look it seemed mightily complicated. A mass of screws, some flat pieces of metal that require bending and six pages of instructions. You can understand my scepticism. Fortunately the product's creator, David Ingoldby, had also provided a completed point motor so that I could see what it was supposed to look like.

As it so happened I needn't have worried. The instructions were very clear and even though I was pausing to take photographs of the build process, I had it completed and tested in under an hour. What's more, there's no soldering involved as all of the electronics have been done for you, all you need is a small Pozi drive screwdriver and a wooden block for bending the aluminium around. There was the appeal.

With a product such as a point

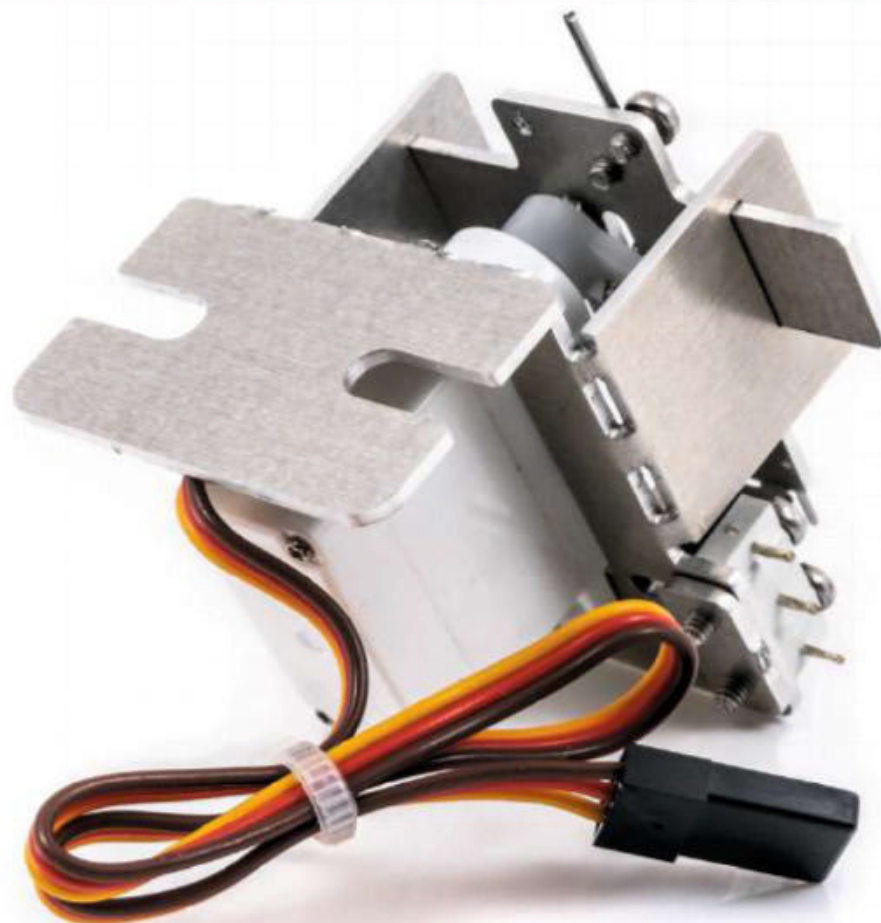
“It was faultless through numerous tests, throwing the point entirely to each side every time”

motor I examine three key areas: ease of use, functionality and reliability. One large advantage this motor has over a SEEP point motor for example, is the removal of the need for soldering. If that isn't a strong area of the hobby for you then you could easily be put off by some of the more delicate work required with other products. With the Micro 10, if you can plug the servo to the power, you have yourself a working point motor. Some of the screws involved in assembly are quite small so be careful you don't lose them. So, how easy is it to operate? The servo is moved from side to side via a dial on the servo tester which is large enough for you to comfortably grip and turn.

FAULTLESS OPERATION

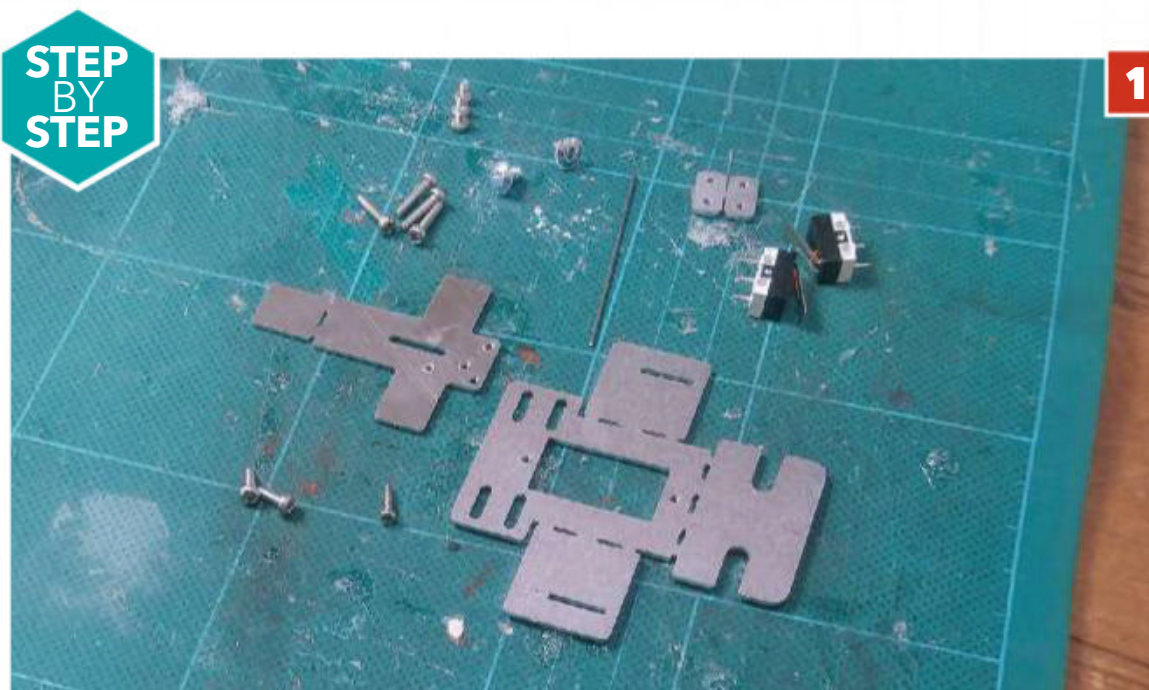
As for functionality and how well the unit works as a point motor, it was faultless through numerous tests, throwing the point entirely to each side every time. Although I was using it on a 'OO' layout, and had the retaining screw on the top hole of the servo arm, I have no doubt that on larger scales it would work equally as well by moving the retaining screw further down the servo and giving the slider greater side to side movement.

In terms of reliability, I haven't been able to test the point motor



over many years and through thousands of point switches but I was able to do some rapid switches and tests to see if it would struggle under stresses – there were no problems. If you were to encounter issues, a new servo can be bought from Dingo Servo for £3 and a servo tester for £4, so should anything go wrong, replacement parts are cheap and can be installed with a bit of care.

On the whole this is a nice little unit and I particularly like the control you get using the servo tester. It would be ideal for layouts with a small number of points as the price is dearer than some of the competitor products, but it performed well and if you like to build everything on your layout, including point motors, this would be an ideal product for you. **(CG)**



STEP BY STEP

1 Be particularly careful with the small screws as they have a mind of their own and can easily get lost! Once I had checked all the parts were present I put them in a small pot to keep them all together.



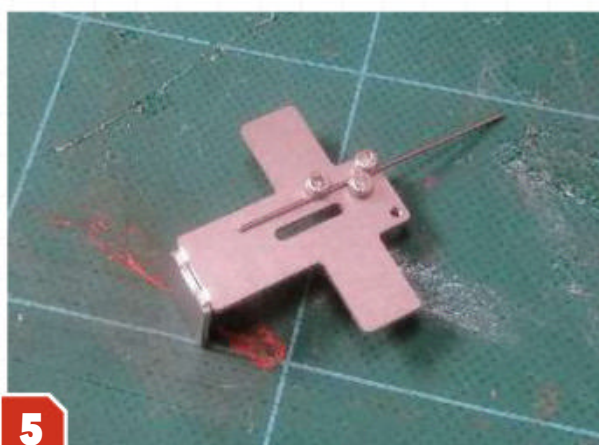
2 Bend the main body. Make sure you are bending the right bits in the right direction as you won't be able to correct it. Don't bend the side wings completely 90° at this time otherwise you won't be able to insert the slider.



3 Bend the end of the slider down over the end of a table or a block of wood that has a right angle. The bent piece of metal will activate the SPDT switches when the motor is completed so that you can attach other products.



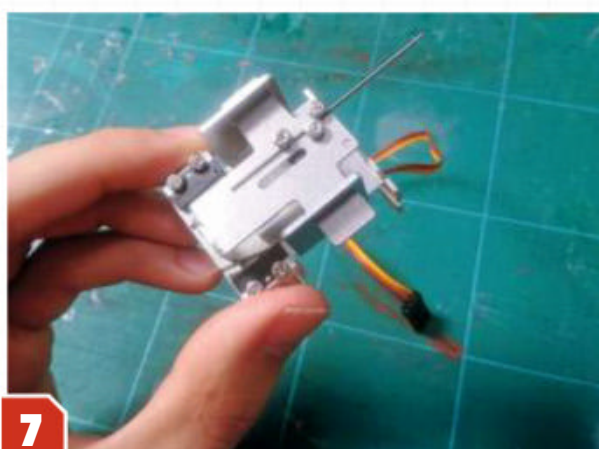
4 Fit the Hobby King servo to the main body, ensuring that you fit it the right way round. Add the arm so that it's pointing straight down the main body and fix it in place with the small screw.



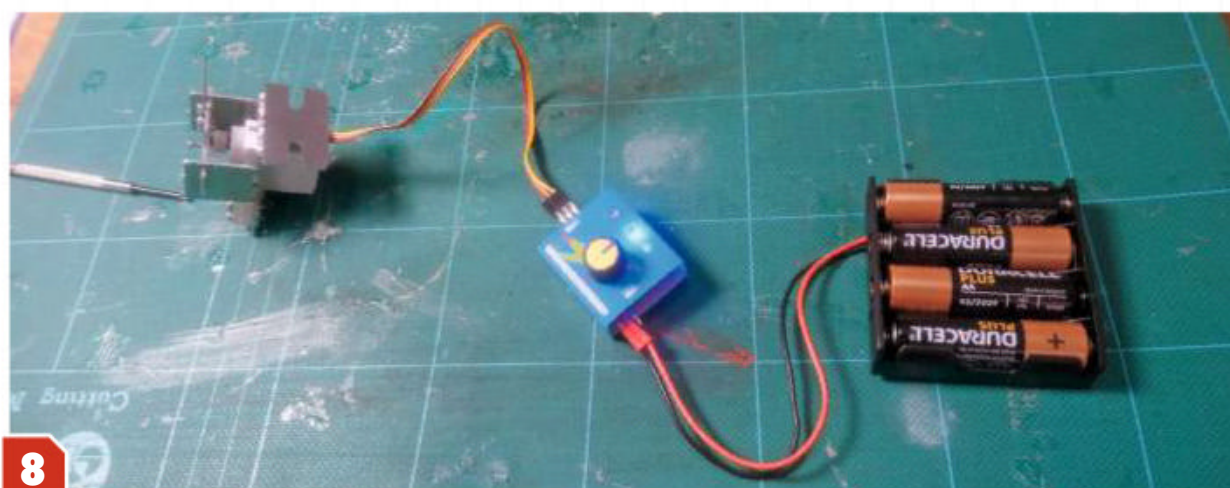
5 Add the actuator wire to the slider. Notice that there are four holes, but you will only use three. Loosely add the three screws into the holes, insert the wire and then tighten the screws so that it's held in place.



6 Add the switches. These can be adjusted to ensure that the servo arm hits and engages them when you come to test the product. The two small nut plates are situated on the other side of the main body.



7 Insert the slider using the two arms in the slots on the wings. Once both sides are in you can then bend the wings to 90°. You can then add the self-tapping screw through the slot in the top and into the servo arm.



8 Placing the screw in different holes will affect how far the slider travels. The top hole is sufficient for 'N' and 'OO'. Once that is done you have a functioning point motor. I was also sent a battery pack and a servo tester so that I could make sure mine worked and, after centring the servo, turning the dial from side to side caused the slider to move. I placed it underneath a point on my layout and was impressed with the quietness and gentleness of the action, which removes the risk of damage to your points you would get with a sharp action solenoid.

Woodland Scenics Peel 'n' Place tufts

Scale See text

Model Woodland Scenics Peel 'n' Place tufts

Price £9.95 each

Availability Bachmann stockists

Self-adhesive tufts and grass strips are not new - they've become commonplace over the last decade. But one manufacturer that has been left behind a little is Woodland Scenics. That has now changed as WS has caught up with its launch of a very comprehensive range, which it sees as an extension of its static grass Field System that is suitable for most scales.

You can use tufts to add realistic variations of height and colour to field edges, flower meadows and road and trackside locations. Simply peel away the backing sheet and position them where desired.

As one would expect from Woodland Scenics, colours and shapes are nicely subtle and well observed. They certainly match the high standards set by the Field System range of static grasses and fibres (MR256).

When using tufts I usually add a dab of PVA glue on the base of the tuft, but Peel 'n' Place didn't require any additional adhesive. That said, the thick glue base is a little unsightly and may need disguising with additional fine green scatter.

Peel 'n' Place is primarily designed for 'OO' and upwards. Some of the tufts are too large to be used in 'N', but others could suit the smaller scales.

Although not as cheap as some of its competitor products, these are a very welcome addition to the scenic modeller's arsenal. *(PM)*



REVIEW VERDICT

PROS. An excellent range of varied tufts, nicely subdued colours, good sticking ability.

CONS. Not cheap, base needs hiding.



Omen Miniatures paint

◆ **PRODUCT** Omen Miniatures Supa-matt modelling water-based paint ◆ **SCALE** Any ◆ **PRICE** 18ml bottles, £3.00 each. See text.

◆ **AVAILABILITY** Omen Miniatures **Tel** 07812 983313 **Web** www.omen-miniatures.com

It is not often that I get the opportunity to review a new range of modelling paints. I have had these samples in my possession since last November, so I've had plenty of time to try them on different projects.

Way back in 1963, I left school. I took a temporary post in a paint factory (where my mother was an office clerk) and I worked in the laboratory mixing small

quantities of specialised paints for individual clients. I recall making a flexible white paint for use on chain-link fencing. It taught me a little about how powder pigments, liquid resins and solvents were ground together to make paint.

It is said that a little knowledge is a dangerous thing, and a little knowledge is what I have. Modelling paints have long been a contentious issue for me.

I prefer to brush rather than airbrush whenever possible. The readily available ranges of modelling enamels have never been good for brushing, so as soon as water-based acrylics became available, that's what I started to use.

This new range of matt finish water-based paints from Omen Miniatures has certainly impressed me. Omen is best known as a manufacturer of cast

whitemetal 'O' gauge figures, so it is no surprise to find that the colours are biased towards figures and scenery, rather than 'railway shades'. Quite simply, they are different from the readily available acrylics from the likes of Humbrol and Revell.

Stretching my memory back to Paripan in the 1960s, I think they are what we would have called 'thixotropic'. The word 'thick' probably comes from that

Omen Miniatures paints have been used on this station, including Stone and the Ochre and Matt White mixed for WR cream.

“The packs are good way to obtain a range of useful colours while making a considerable saving”

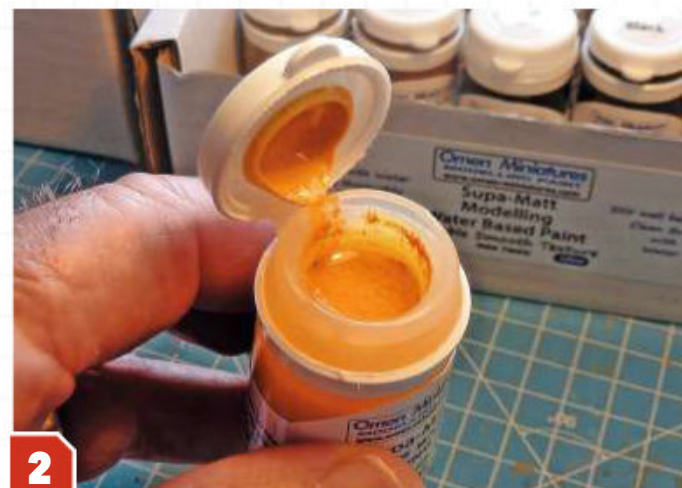
STEP
BY
STEP

MIXING OMEN MINIATURE ACRYLIC PAINTS



1

The paints are supplied in sealed 18ml bottles. Just pull the tab to remove the seal.



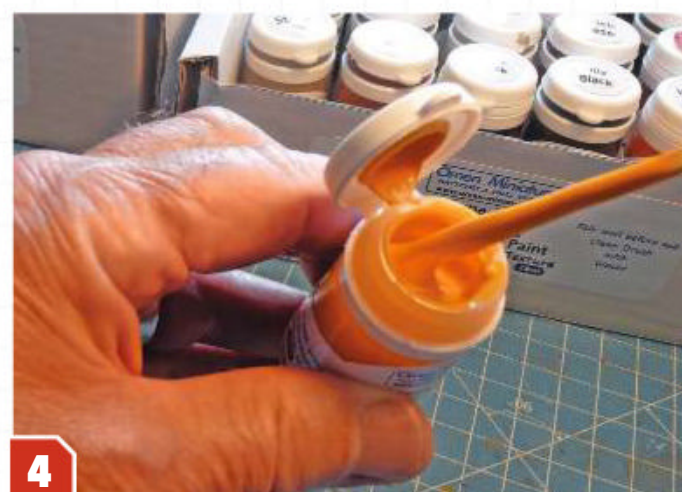
2

This is how the contents looks on opening. Stirring is essential in order to mix the clear fluid with the pigment, which settles when not in use.



3

Stirring need not be vigorous, as the bottles are well filled, but a minute of gentle stirring in both directions is essential.



4

After stirring, the paint remains thick enough to cover most primers with a single coat, and brush application works well.

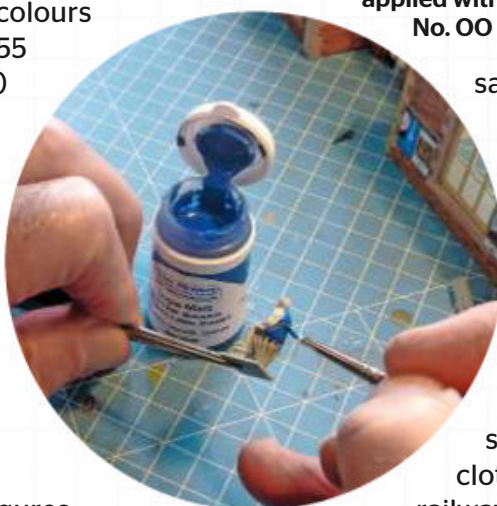
review, one for figures and another for scenery. The figure set contains 25 colours and retails for £55 (plus £4.50 P&P)

while the 20-colour set of scenic paints costs £44 (plus £4.50 P&P).

I've used a variety of colours from both packs, painting some 4mm:1ft scale figures and some scenic features and buildings. Provided you do the vital stirring, I found the paints easy to use with excellent one-coat coverage on a variety of surfaces, including 3D-printed figures, card and styrene. The supplied matt white and black can be used to change the precise shade.

The packs are a good way to obtain a range of useful colours while making a considerable

The faded jacket blue works well on this ModelU 3D-printed DMU driver, applied with a good quality No. 00 artist's brush.



saving against individual bottles. In addition to the all-important flesh colour, matt black and matt white, it includes useful shades for clothing. Here, with

railway personnel in

mind, we have Jacket Blue, Faded Jacket Blue and Faded Vest Orange, while for non-railway folk there's Leather and Gabardine Mac. The scenic

pack has a slightly less varied range of colours with greens and browns in the main. Nevertheless, there are useful dirt and grime shades, as well as Stone, Mortar, Worn Tarmac, Underframe Dirt, Tree Green and Brick Base.

All the shades are mixable and brushes can easily be washed out with clean, cold water. The range of colours is comprehensive and when the well-used colours run out, you can simply replace them with individual bottles. I think I may be able to

dispose of a couple of drawers full of half-used tinlets. Highly recommended. (CJL)

Omen Miniatures water-based paints are supplied in 18ml plastic bottles, but big savings are available when buying the figures or scenic sets.



and thixotropic paints are thick. They require stirring before use in order to mix and thin them for use. I emphasise the words 'require stirring'. The act of stirring thins the paint. They do not require diluting.

Quite simply, the old 'quick shake of the bottle' will not work. For a start, these 18ml plastic bottles are filled to the brim. Mixing by shaking requires the contents of the bottle to move and these bottles are so well filled that the contents cannot move around. They do, however, settle with a clear fluid coming to the top and a minute of stirring, ideally with a narrow flat-bladed stirrer, is all that is needed to get the paint ready for use.

Two packs were sent for

Mini Test

Every month, we test five modelling products to help you make the most informed choices

Glues for scenics

Peter Marriott covers a sticky subject and tell us which glues he uses the most.

To fix scatter materials, foliage and static grass fibres to the landscape, many of us use PVA white glue, though scenic manufacturers retail their own dedicated products for this purpose. Here I review the adhesives that I turn to first when building a layout.

Remember that whichever scenic glue you decide to use, put the top back on all containers at the end of the work session. If you do not do this there may be spillage and the glue may dry out. Also, read the instructions carefully on the bottle and follow the recommended dilution and drying times.

1 Hornby Skale Scenics grass glue

PROS Excellent for planting static grass fibres

CONS Dearer than PVA

Product Hornby Skale Scenics Grass Glue **Price** £7.00 (250ml)

Availability www.hornby.com and Hornby stockists,

This adhesive dedicated for use with static grass fibres and scenery materials, is produced with Skale Scenics materials in mind but it works well for products from all companies. This white glue is thinner than PVA and works very well with static grass fibres, with the added advantage that it dries matt.

Ease of use	●●●●○
Good results	●●●●○
Value for money	●●○○○



2 Deluxe Materials Scatter Grip

PROS Very tacky glue that works well with most scenics

CONS You'll need to wash your hands in warm soapy water after using it!

Product Deluxe Materials Scatter Grip

Price £5.50 (150ml)

Availability www.gaugemaster.com and other Deluxe Materials dealers

Scatter Grip is a slow drying tacky adhesive for firmly bonding scatter materials and foliage on to the landscape. It is milky and a lot thinner than PVA, which helps you apply grass fibres that stand up well and provide a good carpet tuft effect. Very sticky if you get it on your hands!

Ease of use	●●●○○
Good results	●●●●○
Value for money	●●●●○



3 PVA glue



PROS Superb value for money, easily obtainable, versatile glue

CONS Be careful of the cheapest glue which is thinned down

Product PVA glue **Price** Around £1 (500ml)

Availability DIY stores, hardware stores, larger supermarkets, Hobbycraft and model shops

This is a useful white glue sold in plastic bottles of various sizes at DIY stores, builder's merchants, hardware shops, pound shops and craft shops. Can be used neat or slightly diluted. It is versatile and usually very good value for money, though it can dry with a slight sheen. Pound shop PVA is quite thin compared to big name adhesives, which I find limits its fixing ability.

Ease of use	●●●●○
Good results	●●●○○
Value for money	●●●●○





Words of warning

Remember the safety rules when working with all glues and adhesives – work with good ventilation and keep all glues away from children and pets.

Materials and tools for working with adhesives

- ◆ A selection of flat paintbrushes for brushing on adhesive.
- ◆ Acrylic paints (black, grey, green, brown and white) for painting the landscape before fixing on scatters and static grass.
- ◆ A pair of tweezers for working with foliage as it is pushed into glue.
- ◆ Small wooden sticks, such as lollipop sticks or coffee stirrers, for dabbing on small blobs of glue for example when positioning figures on a layout.
- ◆ Scenic sprayers such as those made by Woodland Scenics to spray glue over the landscape. Just one word of caution – wash the tool thoroughly after use or the glue may set hard and the tool will become unusable.

Expert Tips

1. It is always worthwhile adding a final coating of adhesive to your completed scenic work. This successfully secures scatter material so that it doesn't become dislodged when the baseboard is moved.
2. Clean all paintbrushes soon after use with warm soapy water. They will be a lot more difficult to clean once the glue has dried on them.
3. When using static grass, use the specialist glues because more grass fibres will stand upright using those adhesives.

4 Hairspray

MODEL RAIL
CHEAPEST
SPRAY
GLUE

PROS Works well, costs little, every scenic modeller should have some
CONS Don't buy a scented version!
Product Hairspray **Price** Around £1 per aerosol
Availability All local shops, chemists and supermarkets

This has been a useful and cheap adhesive for fixing scatter and foliage on layouts for a long time, being readily available at supermarkets. The best choice is the extra-hold unscented type that has numerous uses, including fixing scatter texture material to the landscape, fixing leaf materials to trees and hedges and for use with static grass to add additional layers of texture and variety. It is also good as a final sealer for all scatter materials.

Ease of use	
Good results	
Value for money	



5 Woodland Scenics scenic glue

PROS Strong glue which provides a permanent fix
CONS Most expensive
Product Woodland Scenics Scenic glue
Price £9.75 (236ml)
Availability Woodland Scenics stockists

Woodland Scenics Scenic Glue is a thick adhesive that fixes ballast, turf, foam pieces, foliage and scatter materials to the landscape, drying to a clear, matt finish. It is also good for fixing track and buildings to the baseboard. It is my go-to heavy duty adhesive when making scenery.

Ease of use	
Good results	
Value for money	



MODEL RAIL *exclusives*

Locomotives you can only buy from us!

'16XX' 0-6-0PT

00
GAUGE

**PRE-ORDER
TODAY!**

22 VERSIONS TO CHOOSE FROM

Specification list

Made by: Rapido Trains

Motor: Five-pole

DCC socket: Next18

Features: NEM coupler
pockets, factory-fitted speaker,
sprung buffers, firebox glow,
'Busby' spark arrestor chimney.

**DUE
Q4**

£149.00

£134.10 price for
subscribers



BR BLACK, EARLY EMBLEM (PRISTINE)

- ◆ MR-301A: No. 1609
- ◆ MR-301B: No. 1623
- ◆ MR-301C: No. 1624
- ◆ MR-301D: No. 1657
- ◆ MR-301E: No. 1664
- ◆ MR-301F: No. 1658
- ◆ MR-301G: No. 1668
- ◆ MR-302A: No. 1646

BR BLACK, EARLY EMBLEM (WEATHERED)

- ◆ MR-302B: No. 1649
- ◆ MR-303: No. 1604

BR BLACK, LATE EMBLEM (PRISTINE)

- ◆ MR-304A: No. 1636
- ◆ MR-304B: No. 1655

BR BLACK, LATE EMBLEM (WEATHERED)

- ◆ MR-305A: No. 1627
- ◆ MR-305B: No. 1628

GWR GREEN

- ◆ MR-306: GWR green No. 1638

'BUSBY' CHIMNEY

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

NCB GREEN

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

PRESERVED GREEN

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



Please note: These are pre-production evaluation samples. They do not represent the factory-finished models.

Order yours at WWW.MODELRAIL



MR-203
No. 68225, BR early emblem, no skirts

Specification list

Made by: Rapido Trains

Motor: Coreless

DCC socket: Six-pin

Features: NEM coupler pockets, space for sound speaker, sprung buffers, removable cowcatchers, posable windows and end doors, etched worksplates.

£127.50

£114.75 price for subscribers

00
GAUGE

LNER 'J70s'

NINE TO CHOOSE FROM

For immediate delivery!



MR-201 No. 68219, BR early emblem



MR-202 No. 68222, BR early emblem, full skirts



MR-203
No. 68225, BR early emblem, no skirts



MR-204
No. 68226, British Railways lettering, no skirts



MR-205 No. 68223, British Railways lettering, full skirts



MR-206 No. 7128, LNER wartime livery, full skirts



MR-207 No. 8223, LNER post-war livery, full skirts



MR-208 No. 7126, LNER lined livery, no skirts



MR-209 No. 7137, LNER unlined livery, full skirts



MR-210 No. 7139, LNER lined livery

OFFERS.CO.UK OR 01209 705459

MODEL RAIL *exclusives*

Locomotives you can only buy from us!

ORDER AT WWW.

'USA' 0-6-0Ts

00
GAUGE

Roof
ventilator

SR bunker

Later style
tank-top grab
stanchions



MR-104A

'USA' 0-6-0T

No. 30064, in BR lined green

Specification list

Made by: Bachmann/Kader

Motor: Three-pole

DCC socket: Six-pin

Features: NEM coupler pockets, two types of cab, different smokeboxes, different footsteps, separately fitted hinged platform.

MR-111 and MR-104A

£129.95

£116.95 price for subscribers

SR cab
windows

DCC ready

Original clack
valves

Original
grab
handles

Front platform
(supplied
separately)

NEM coupler
pocket

MR-111

'USA' 0-6-0T No. s73

British Railways unlined black,
'Sunshine lettering'

Six-pin decoder
socket

SR bufferbeam
footsteps

**We've frozen
the original
2017 price on
these models**

Our 'USA' 0-6-0Ts are
beginning to sell out
- order yours today!

£124.95

£112.46 price for subscribers



MR-101 No. 1968, USATC black



MR-107 No. 36, National Coal Board black



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



MR-110 No. DS237 Maunsell, BR Departmental green

COMING SOON FROM MODEL RAIL



00 GAUGE BR Class 11
0-6-0DE

Produced by Heljan



00 GAUGE Ruston 'PWM'
0-6-0DE

Produced by Heljan in partnership with Kernow MRC



THOMAS BRIGHT/SR

009 GAUGE Vale of Rheidol
2-6-2T

● Order book for these new models not yet open. Keep an eye out in *Model Rail* for updates.

Non-sound Class 66s back in stock. Limited numbers!

£145.00

(subscribers pay £130.50)



NEW LOWER PRICE!

Price: £235.00
£211.50 price for subscribers

00 GAUGE BACHMANN CLASS 66/032-725WDS:
66062, EURO CARGO RAIL LIVERY,
SOUND-FITTED

SOUND FITTED

MODEL RAIL EXCLUSIVE PUBLICATIONS

BRITAIN'S MODEL TRAINS 2020

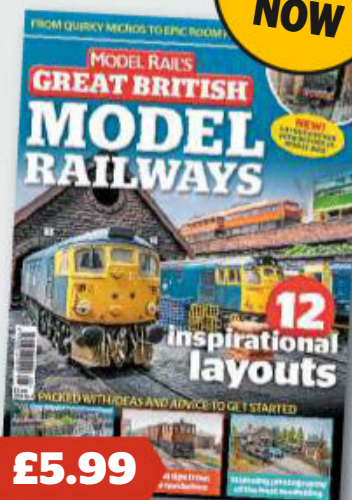
Our unique guide to British and Irish outline, ready-to-run locomotives, coaches and wagons is fully updated for 2020. Order your copy today!



£7.99

GREAT BRITISH MODEL RAILWAYS 2020

Celebrate the skill, imagination and craftsmanship of Britain's best railway modellers with this superb 132-page publication.

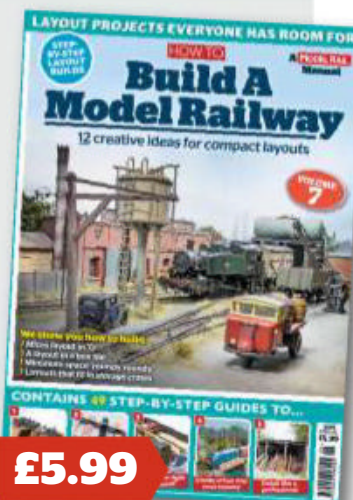


£5.99

ON SALE NOW

HOW TO BUILD A MODEL RAILWAY 2019

From planning your layout to operating it, this publication guides you through the process of building your model railway and is full of hints and tips.



£5.99

MODEL RAIL PUBLICATIONS ORDER DETAILS

01733 840111 www.greatmagazines.co.uk/modelrailbookazines

Please note that this is for *Model Rail* Extras only - you can't use this number or website to order *Model Rail* Offer models.

Next Issue

A new look for an old layout

Kevin Mitchell couldn't decide on a new track plan when renovating 'Mallingford', so he altered the scenery instead.

ON SALE
**OCT
29**

One locomotive - lots of layouts

We explore the history of some of the country's most well travelled locomotives and demonstrate to you how you can build a layout for them, whatever your region.



**NEVER
MISS AN
ISSUE!**

Turn to page 18 for
details of our great
subscription
offer

ADVERTISERS' INDEX

AC Models	136
Accurascale	13
Alton Model Centre.....	137
Anoraks Anonymous	140
C&L Finescale	136
C&M Models	136
CM3 Models	136
Coastal DCC	134
Crane Sheds & Summerhouses	139
Dapol	32
Deluxe Materials.....	133
Dingo Servo Mounts.....	142
DMG Technical	132
Dream Steam	133
Durham Trains of Stanley.....	135
Eileen's Emporium.....	134
Ellis Clark Trains	120-121
Ema Model Supplies.....	134
Finescalebrass	134
Fox Transfers	140
Freestone Model Accessories	142
Frizinghall Models & Railways.....	136
Gaugemaster	93, 148
GC Weathering	142
GFB Designs	135
Golden Valley Hobbies	133
Harburn Hobbies	141
Harder & Steenbeck.....	16
Hattons.....	114-119
Hobby Trax	31
Hornby	2
Howes Models.....	135
Kernow Model Rail Centre.....	128-129
KJB Models	122

KR Models	75
Langley Models.....	132
Megapoints Controllers	137
Metcalfe Models.....	15
Micro Miniatures	141
Mike Pett's Photos.....	142
Model Electronic Railway Group	139
Model Railways Online	138
Modelit	135
Modelrailwayscenery.com	136
Morley Controllers	135
Morris Models	140
Murphy Models.....	123
Mustard House Ads.....	142
N-Scenic	140
Osborn's Models.....	137
Peter's Spares	139
Rails of Sheffield.....	109-113

Ron Lines	140
Salisbury Model Centre	141
Scalescenes.com	140
Special Auction Services	124
Stamp Insurance Services.....	138
The Airbrush Company.....	125
The Hereford Model Centre	126
The Hobby Shop.....	134
Tigertaz Models	141
TMC.....	130-131
Tony's Trains.....	137
Tower Models	127
Townstreet	138
Trains4U	141
Train-Tech	138
Warwick & Warwick	147
York Modelmaking	139
Youchoos.....	132

CLASSIFIED INDEX

Classified advertisers on pages 143-144

AGR Model Railway Store	Kent Garden Railways	Redcar Models & Hobbies
Branchlines	Mark's Trains	Roxey Mouldings
Church Street Models	Model Railway	Scalespeed
Coach Lighting	Developments	Skytrex (2013)
Connoisseur Models	Model Scenery Supplies	The Hobby Goblin
Crafty Hobbies	Monk Bar Model Shop	The Sports and
Dave Angell Trains	Nick Tozer Railway Books	Model Shop
Derek's Transport Books	Northumbrian	The Tutbury Jinny
East Somerset Models	Painting Services	Train Times
Howard Scenic Supplies	Orwell Model Railways	Tri-Angman
Jacksons Models	P&D Marsh	Trident Trains
John Dufield For	Pooley's Puffers	Upstairs Downstairs
Model Railways	Recreation 21	

ADVERTISING IN *MODEL RAIL*

If you want
to advertise in
Model Rail call the
number below to
speak to our
advertising team.



**Senior Sales
Exec Display:**
Gemma Smith
01733 366379



RAILS OF SHEFFIELD

railsofsheffield.com



Corporate Partners of

RAILWAY
MUSEUM

HELJAN 009 BARGAINS



9960	LYNTON & BARNSTAPLE 'LEW' 2-6-2 TANK LOCOMOTIVE SOUTHERN RAILWAY NO. E188	£219.95	£139.50
9961	LYNTON & BARNSTAPLE 'LYD' PLAIN BLACK 2-6-2 TANK LOCOMOTIVE NO.190	£219.95	£139.50
9962	LYNTON & BARNSTAPLE 2-6-2T 30190 'LYD' BR LINED BLACK (PRESERVED)	£219.95	£139.50
9963	LYNTON & BARNSTAPLE 2-6-2T 190 'LYD' SOUTHERN RAILWAY GREEN (PRESERVED)	£219.95	£139.50

RAILS
CONNECT
DCC DECODERNEW PRODUCT!
CRAFTED FOR RAILS BY DCCconceptsIT'S TIME TO
CONNECT WITH THE
NEXT GENERATION
OF DCC DECODERS

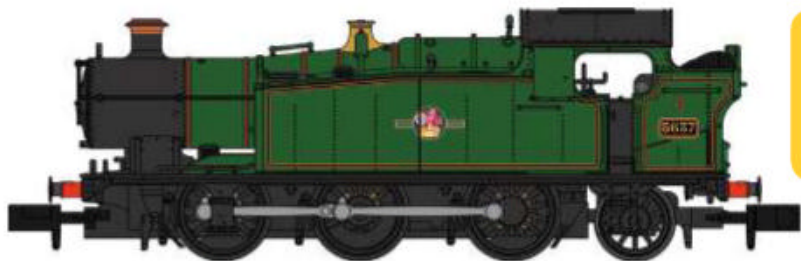
RoS-218	£19.95	RoS-8D	£19.95
- OO/HO Decoder perfect for 21 pin, 8 pin and hard-wire installation 6 powered functions		- OO/HO 8 pin direct plug decoder for DCC-ready locomotives 4 powered functions	
RoS-6D	£19.95	RoS-8HP	£24.95
- N & Small HO/OO 6 pin direct plug decoder for DCC-ready locomotives 2 powered functions		- High Power decoder for 8 pin and hard-wire installation into older OO/HO or modern O gauge locomotives 4 powered functions	

IN STOCK NOW!!! SEE WEBSITE FOR DETAILS

N GAUGE

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
details.
Expected
Q3

S2101-01 – 5637. BR lined green.
S2101-01A – 5643. BR lined green.
S2101-02 – 6681. BR lined green weathered.
S2101-03 – 5633. BR unlined green.
S2101-04 – 6639. BR unlined black.
S2101-04A – 5619. BR unlined black.

S2101-05 – 5616. GW unlined green.
S2101-06 – 6623. GW unlined green.
S2101-06A – 6671. GW unlined green.
S2101-07 – 5609. GW unlined green.
S2101-08 – 6602. BR unlined black.
S2101-09 – 5644. GW Unlined green.

PRE-ORDER NOW! £109.95 12 VERSIONS AVAILABLE

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:

railsofsheffield

railsofsheffield

railssheffield

railsofsheffield

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.

AMAZING OFFERS ON



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

ALSO STOCKED AT BARGAIN PRICES!



SEE OUR WEBSITE FOR FULL LISTINGS

INCLUDING SPECIAL OFFERS & GREAT DEALS!!

www.railsofsheffield.com

21-29 Chesterfield Road - Sheffield - South Yorkshire - S8 ORL - 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



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@RAILSOF SHEFFIELD.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:



WE ALSO BUY RAILWAYANA

SIGNAGE AND TOTEMS

AND MORE...

Telephone our Second Hand team on: (0114) 255 1436 or email: secondhand@railsofsheffield.com - Ref: RM2020

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

Email: info@railsofsheffield.com

Web: railsofsheffield.com

YouTube: railsofsheffield

Facebook: railsofsheffield

Twitter: railssheffield

Instagram: railsofsheffield



RAILS OF SHEFFIELD

railsofsheffield.com



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



STEP
02

WE MAKE AN OFFER

our friendly, experienced staff
review your list and make an
honest valuation and offer

BRING, SEND OR COLLECT

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

STEP
03



STEP
04

PAYMENT MADE!

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

**TOP
GUARANTEED
PRICES
PAID**

**FAMILY
BUSINESS
FRIENDLY
SERVICE**

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

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

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

Email: info@railsofsheffield.com

Web: railsofsheffield.com

[railsofsheffield](https://www.youtube.com/railsofsheffield)

[railsofsheffield](https://www.facebook.com/railsofsheffield)

[railssheffield](https://twitter.com/railssheffield)

[railsofsheffield](https://www.instagram.com/railsofsheffield)



EXCLUSIVES

OO GAUGE MODELS

See the website for full details:



STROUDLEY A1 / A1X

TERRIER 0-6-0

IN STOCK NOW!

12 VERSIONS AVAILABLE

AVAILABLE NOW! £110 - DCC READY version

dapol
Model Railway Company

NO.37610

CLASS 37/6

HNRC BR BLUE DIESEL LOCOMOTIVE
(WRAP AROUND YELLOW NOSES)

accurascale

EXPECTED Q1 2021



PRE-ORDER NOW! £169.99-£259.99 - Secure yours for **ONLY £30 DEPOSIT**



BR GAS TURBINE CLASS

18000

3 VERSIONS AVAILABLE

PRE-ORDER NOW! £199.99 - Secure yours for **ONLY £30 DEPOSIT**

HELJAN

NORTH EASTERN RAILWAY

ELECTRIC AUTOCAR

3 VERSIONS AVAILABLE

HELJAN

PRE-ORDER NOW! £199.95
Secure yours for **ONLY £30 DEPOSIT**



DRS Minimodal CLASS 33/0 TWIN PACK

IN STOCK NOW!

SELLING FAST!!

AVAILABLE NOW! £279.50

HELJAN

DERBY/SULZER TYPE 4

CLASS 45's

BR DIESEL LOCOMOTIVE

HELJAN

2 VERSIONS AVAILABLE



PRE-ORDER NOW! £169.00 Secure yours for **ONLY £30 DEPOSIT**

Please see our website for latest availability and expected arrival dates

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](https://www.youtube.com/railsofsheffield)

[railsofsheffield](https://www.facebook.com/railsofsheffield)

[railssheffield](https://www.twitter.com/railssheffield)

[railsofsheffield](https://www.instagram.com/railsofsheffield)

COLLECTION

railsofsheffield.com/exclusive

OO GAUGE MODELS



Corporate Partners of

**RAILWAY
MUSEUM**



CREDIT: HUGH LLEWELYN

CALEDONIAN RAILWAY BLUE MCINTOSH

812 CLASS 0-6-0

5 VERSIONS AVAILABLE

PRE-ORDER NOW! £179.95-£199.95
Secure yours for **ONLY £30 DEPOSIT**

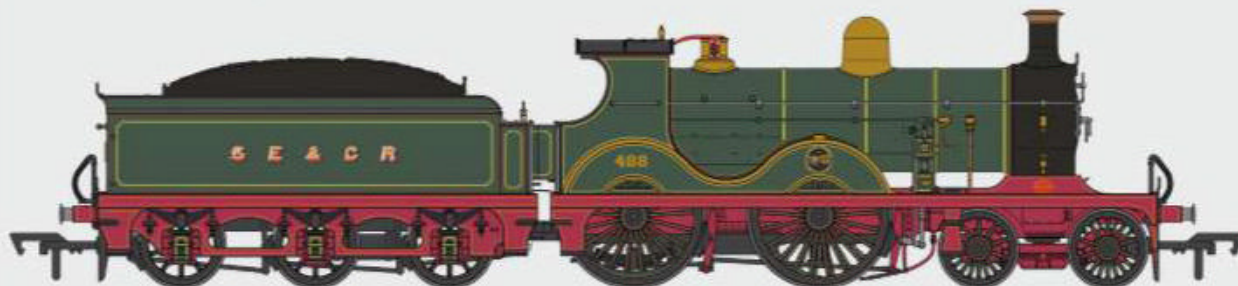


WAINWRIGHT D CLASS

6 VERSIONS AVAILABLE



**LOCOMOTION
MODELS**



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

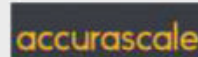


PRE-ORDER NOW! £160-£250 Secure yours for **ONLY £30 DEPOSIT**

NEWLY TOOLED

DELTIC

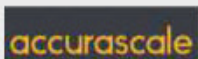
6 VERSIONS AVAILABLE



EXPECTED Q4 2020

CLASS 92's

2 VERSIONS AVAILABLE



PRE-ORDER NOW!
£159.99-£249.99
ONLY £30 DEPOSIT



© Justin Foulger

TWIN PACK

43238 'NRM 40' POWER CAR

CLASS 43 LNER HST

43302 'WORLD SPEED RECORD' TRAILER CAR

PRE-ORDER NOW! £149.99

**N
GAUGE
MODEL**



**O
GAUGE
MODEL**

NO.779 'EVENING STAR'

CLASS 66

GBRF BR GREEN LIVERY

DCC READY / DCC FITTED / DCC SOUND VERSIONS

PRE-ORDER NOW! £325-£475



CREDIT: D.J.H. PHOTOGRAPHY

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

Email: info@railsofsheffield.com

Web: railsofsheffield.com

[railsofsheffield](https://www.youtube.com/railsofsheffield)

[railsofsheffield](https://www.facebook.com/railsofsheffield)

[railssheffield](https://twitter.com/railssheffield)

[railsofsheffield](https://www.instagram.com/railsofsheffield)

THIS MONTH AT

Compiled between 11th August & 11th September 2020

Hattons
• MODEL RAILWAYS •

Latest News



Dapol & Heljan O Gauge Bargains

We've discounted a huge range of locomotives, DMUs and coaches in O gauge. Limited quantities are available - so explore the range today!

www.hattons.co.uk/tmah98



Hattons OO Genesis Coaches

We've shared livery artwork for all of our 4 & 6 wheel coaches as well as a selection of full 3D livery renders. Take an in-depth look on our site now!

www.hattons.co.uk/tmah104



Heljan OO Class 86/0

Heljan have shown painted samples for their range of newly tooled Class 86/0 locomotives, due into stock at the tail end of 2020.

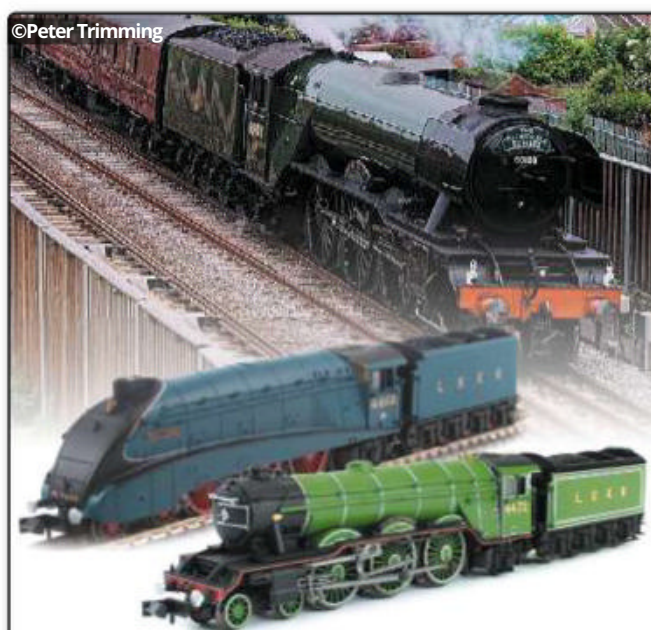
www.hattons.co.uk/tmah105



Oxford Diecast Announcements

Oxford Diecast have revealed their range of new items for the Sep 2020 to Jan 2021 period, consisting of some new toolings & a wealth of new liveries.

www.hattons.co.uk/tmah106



Dapol N Class A3 & A4 4-6-2s

Dapol have announced new batches of their popular LNER Class A3 & A4 4-6-2 locomotives in a selection of LNER and British Railways liveries.

www.hattons.co.uk/tmah107



Hornby OO LNER Thompson A2s

Hornby have revealed livery renders for their forthcoming newly tooled Thompson A2/2 and A2/3 locomotives in OO.

www.hattons.co.uk/tmah93

Top 5 Best Sellers



Hornby

R1214Loco - £69



Peco

GR-555 - £23



Hornby

R1214Coaches - £36



Hornby

R7243 - £9.99



Golden Valley Hobbies

GV2020 - £49.50

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



00

GWR Class 78xx Manor 4-6-0

Stage: Newly Announced

Due: TBC

Price: from £135.96

hattons.co.uk/dapolmanor



00

British Rail Class 59

Stage: Painted Samples

Due: Q1 2021

Price: from £131.71

hattons.co.uk/dapol59



00

GWR Class 43xx Mogul 2-6-0

Stage: Painted Samples

Due: Q3 - Q4 2020

Price: from £135.96

hattons.co.uk/dapol43xx

Hattons
ORIGINALS

Explore the full Hattons Originals range:
hattons.co.uk/originals



00

Plasser GPC 12t Crane

Stage: CADs Shown

Due: Q1 2021

Price: £69

hattons.co.uk/gpc



00

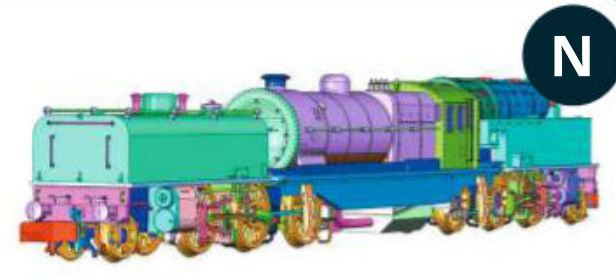
Genesis 4 & 6 Wheel Coaches

Stage: Artwork & 3D Renders

Due: from Q1 2021

Price: from £30

hattons.co.uk/genesis



N

LMS Beyer Garratt

Stage: CADs Shown

Due: TBC

Price: £199

hattons.co.uk/ngarratt

HELJAN

See all forthcoming Heljan items:
hattons.co.uk/heljanpreorders



009

Lynton & Barnstaple 2-4-2T

Stage: Painted Samples

Due: Q3 2020

Price: £203.96

hattons.co.uk/landb242t



00

British Rail Class 25/3

Stage: Painted Sample

Due: Q4 2020

Price: from £152.96

hattons.co.uk/hel253



00

British Rail Class 86/0

Stage: Painted Samples

Due: Late 2020

Price: from £161.46

hattons.co.uk/hel860

HORNBY

Explore the full Hornby 2020 range:
hattons.co.uk/hornby2020



00

Standard 2MT 2-6-0

Stage: Prototype Shown

Due: Jan 2021

Price: £162

hattons.co.uk/hornby2mt



00

British Rail Class 91

Stage: Renders Shown

Due: December 2020

Price: £153

hattons.co.uk/hornby91



00

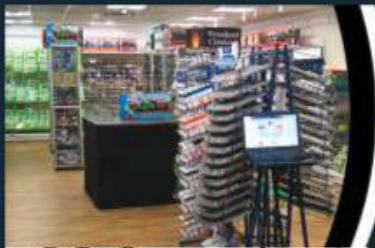
LNER Thompson A2/2 & A2/3

Stage: Engineering Samples

Due: Late 2020 to Early 2021

Price: £171

hattons.co.uk/thompsona2



17 Montague Road, Widnes, WA8 8FZ
T: 0151 733 3655 E: info@hattons.co.uk

OO Gauge (1:76 Scale)

Steam locos



H4-AB16-003 Andrew Barclay 0-4-0ST 16" 2226 "Katie" in lined maroon (Hat) (RRP £99) **BARGAIN** £89



266213 Beyer Garratt 2-6-0 0-6-2 4993 in LMS black original coal bunker (Hel) £126



R3719 Class 5101 'Large Prairie' 2-6-2T 4154 in GWR green (Hor) £126



R3725 Class 5101 'Large Prairie' 2-6-2T 4160 in BR lined green late crest (Hor) **NEW** £126



R3721 Class 61xx 'Large Prairie' 2-6-2T 6110 in GWR green (Hor) £126



R3723 Class 61xx 'Large Prairie' 2-6-2T 6145 in BR black early emblem (Hor) £126

R3854X Class 8P Princess Royal 4-6-2 46211 'Queen Maud' in BR green late crest - DCC fitted (Hor) **NEW** £189



R3854 Class 8P Princess Royal 4-6-2 6212 'Duchess of Kent' in LMS crimson lake (Hor) **NEW** £171

R3854X Class 8P Princess Royal 4-6-2 6212 'Duchess of Kent' in LMS crimson lake - DCC fitted (Hor) **NEW** £189



R3847 Class A1X Terrier 0-6-0T 14 'Bembridge' in Southern Railway olive green (Hor) £85.50



R3738 Class A3 4-6-2 4472 'Flying Scotsman' in LNER green - 1969 USA tour condition two tenders - Gold plated (Hor) £234



R1214loco Class B17 4-6-0 61672 'West Ham United' in BR green early emblem - Railroad Range - split from set (Hor) **BARGAIN** £69



R3634 Class LN 'Lord Nelson' 4-6-0 851 'Sir Francis Drake' in Southern Railway olive green (Hor) (RRP £169.99) **BARGAIN** £124



R3412 Class S15 4-6-0 30842 in BR Black early emblem (Hor) (RRP £94.99) **BARGAIN** £86



H4-P-015 SECR P Class 0-6-0T 27 in SE&CR full lined green (with polished brass) (Hat) £99

Steam train packs



R3397 LMS Suburban Passenger Train Pack - Ltd Ed (Hor) (RRP £164.99) **BARGAIN** £148.50

Diesel locos



3442 Class 33/0 33008 'Eastleigh' in BR 1980s green full yellow ends (Hel) **NEW** £126.65



H4-66-037 Class 66 66587 in Freightliner/ONE pink 'AS ONE, WE CAN' (Hat) £150

R3923 Class 66 66587 Freightliner/ONE pink 'AS ONE, WE CAN' (Hor) **NEW** £74.95



R3902 Class 66 66725 'Sunderland' in GBRf (Hor) **NEW** £74.99



H4-66-028 Class 66 66762 in GBRf Europorte (Hat) £150



H4-66-035 Class 66 66780 in GBRf/Cemex 'The Cemex Express' (Hat) £150



H4-66-032 Class 66 66783 in Biffa red GBRf branding 'The Flying Dustman' (Hat) £150



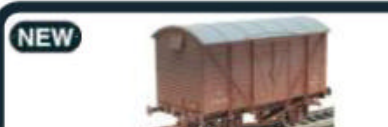
H4-66-031 Class 66 66789 in BR Large Logo blue GBRf branding 'British Rail 1948 - 1997' (Hat) £150

Train sets - digital



R1236 Starter Digital train set - 'Mixed Traffic' (Hor) £189

Wagons



4F-012-028 12 ton ventilated van B768128 in BR bauxite - weathered (Dap) **NEW** £11



R6977 8 ton lime wagon John Delaney No. 130 (Hor) **NEW** £13.50



R6942 BR D1507 20 ton brake van DB954812 in BR departmental olive Railfreight Distribution branding (Hor) **NEW** £20



R6961 BR, HAA wagon graffiti, 355855 - Era 8 (Hor) **NEW** £21



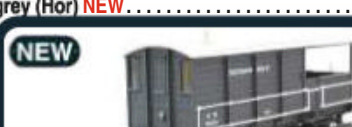
5019 Cargowaggon bogie ferry van in unbranded silver and blue - 2797 694 - weathered graffiti (Hel) **NEW** £42.46



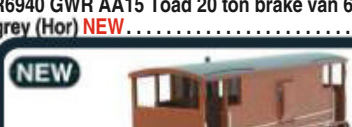
R6941 ex-GWR AA15 Toad 20 ton brake van W68604 in BR grey (Hor) **NEW** £20



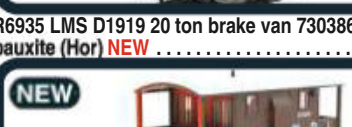
R6915B ex-LSWR 24 ton brake van S55063 in BR grey (Hor) **NEW** £22.50



R6940 GWR AA15 Toad 20 ton brake van 68611 in GWR grey (Hor) **NEW** £20



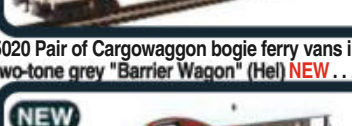
R6935 LMS D1919 20 ton brake van 730386 in LMS bauxite (Hor) **NEW** £21



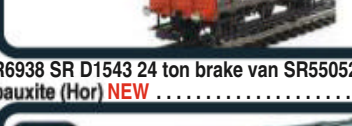
R6911B LSWR 20 ton brake van 10124 in LSWR brown red ends (Hor) **NEW** £22.50



5020 Pair of Cargowaggon bogie ferry vans in Railadventure two-tone grey 'Barrier Wagon' (Hel) **NEW** £67.96



R6938 SR D1543 24 ton brake van SR55052 in SR bauxite (Hor) **NEW** £22.50



R6967 TEA 100 ton bogie tank wagon VTC 85951 in VTC grey graffiti - weathered (Hor) **NEW** £27



R6959 Triple pack of 20 ton tank wagons Corn Products Co. Ltd (Hor) **NEW** £44.50



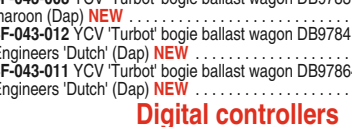
4F-043-010 YCV 'Turbot' bogie ballast wagon DB978003 in Civil Engineers 'Dutch' (Dap) **NEW** £22.53



4F-043-009 YCV 'Turbot' bogie ballast wagon DB978105 in EWS maroon (Dap) **NEW** £22.53



4F-043-007 YCV 'Turbot' bogie ballast wagon DB978279 EWS maroon (Dap) **NEW** £22.53



4F-043-008 YCV 'Turbot' bogie ballast wagon DB978372 EWS maroon (Dap) **NEW** £22.53



4F-043-012 YCV 'Turbot' bogie ballast wagon DB978411 in Civil Engineers 'Dutch' (Dap) **NEW** £22.53

Digital controllers



R8214 DCC Elite unit digital controller (Hor) £215

Point motors

R8243 Surface Mounted point motor (Hor) £8.50

Man-made scenic structure - railway-related



R083 Pack of 6 Buffer Stop (Hor) £11
R083 Single (Hor) £2

Buildings - general

GM446 Cement works - plastic kit (Gau) **NEW** £36
GM437 House under construction - plastic kit (Gau) **NEW** £27.50
GM432 Low relief dockside warehouse - plastic kit (Gau) **NEW** £23

Man-made scenic structure - non-railway

GM439 Campsite kit tents, chairs and camping equipment (Gau) **NEW** £22
GM433 Dockside crane - plastic kit (Gau) **NEW** £13
GM441 Military barbed wire (Gau) **NEW** £11.50
GM442 Military sandbags (Gau) **NEW** £9
GM440 Military tents - pack of seven - plastic kit (Gau) **NEW** £11.50

Bridges, Tunnels & Walls

A2981 Wooden log fence - 67cm (Woo) **NEW** £11
A2984 Wooden picket fence gates - 67cm (Woo) **NEW** £11
A2982 Wooden rail fence gates - 67cm (Woo) **NEW** £11

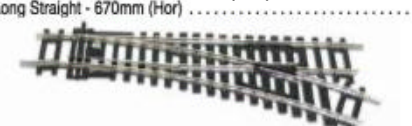
Grass, ground, lichen, hedges and foliage

TAS074259 Hibiscus plants - pack of 16 (Tas) **NEW** £7

Track - Code 100 Setrack



R8072 Left Hand Standard Point (Hor) £9.50



R603 Long Straight - 670mm (Hor) £4

R8073 Right Hand Standard Point (Hor) £9.50

ST-241 Setrack No.2 radius left handed point insulfrog (Pec) £9.50

R600 Standard Straight (Hor) £1.80

R600 Box of 24 (Hor) £40

Track - Code 100 Streamline

SL-91 Right hand small point - insulfrog (Pec) £10

Track - Code 75 Finescale

SL-E191 Finescale right hand small point - electrofrog (Pec) £11

Buses



76DC004 Duple Commander II Greenslades (Oxf) **NEW** £19



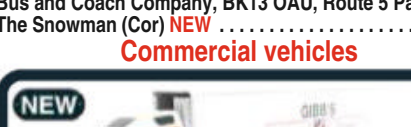
CC42419 Plaxton Panorama 'The Beatles Magical Mystery Tour bus' (Cor) **NEW** £23

OM46516B Wright Eclipse Gemini 2, Brighton & Hove Bus and Coach Company, BK13 OAU, Route 5 Hangleton, The Snowman (Cor) **NEW** £35.50



OM46516A Wright Eclipse Gemini 2, Brighton & Hove Bus and Coach Company, BK13 OAU, Route 5 Patcham, The Snowman (Cor) **NEW** £35.50

Commercial vehicles

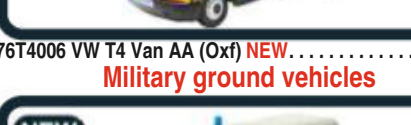


76VOL4011 Volvo FH4 GXL Fridge Trailer Gibbs of Fraserburgh (Oxf) **NEW** £22



76T4006 VW T4 Van AA (Oxf) **NEW** £6

Military ground vehicles



76LRL009 Land Rover Lightweight Royal Navy (Oxf) **NEW** £6

OO9 Narrow Gauge

Coaches



GR-550 4-wheel Ffestiniog 'Bug Box' first class coach in FR victorian plum and cream (Pec) **NEW** £23



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)



NEW
GR-560 4-wheel Ffestiniog 'Bug Box' observation coach in FR victorian plum and cream (Pec) **NEW**..... £23



NEW
GR-555 4-wheel Ffestiniog 'Bug Box' third class coach in FR victorian plum and cream (Pec) **NEW**..... £23

N Gauge HSTs

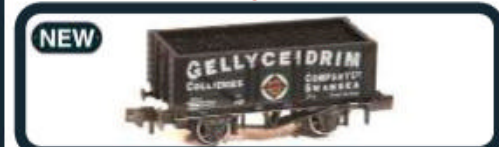


2D-019-202 Class 43 HST pair of power cars 43041 and 43166 in Intercity swallow (Dap) £127.50



2D-019-201 Class 43 HST pair of power cars 43131 and 43128 in Intercity executive (Dap) £127.50

Wagons



NEW
NR-P428 7 - Plank Wagon - Gellyceidrim Collieries Co Ltd (Pec) **NEW**..... £9
KNR-252 BR 24 ton steel mineral wagon - plastic kit (Pec) **NEW**..... £9
KNR-257 BR diagram 1/462 pipe wagon - plastic kit (Pec) **NEW**..... £9

Containers and loads



NEW
2F-028-105 Pair of 45 foot curtain sided containers - "P & O Ferry" - 008460-2 and 008037-7 - weathered (Dap) **NEW** . £14

Model railway spares

SL-310 Rail Joiners/Fishplates for N & OO9 gauge (24 per pack) (Pec) £2

Track - Code 55 Finescale

SL-300F 1 yard (91.5cm) length of Finescale Nickel Silver flexible Wooden Sleeper track (Pec) £3.20
SL-300F Pack of 30 (Pec) £93

O Gauge (1:43 Scale) Steam locos



4311 Class 43xx Mogul 2-6-0 4358 in BR lined green early emblem (Hel) (RRP £779)..... **BARGAIN**..... £560
7S-007-008 Class 57xx 0-6-0PT pannier 6739 in BR black early emblem (Dap) **NEW**..... £199.75
7S-007-008D Class 57xx 0-6-0PT pannier 6739 in BR black early emblem - Digital fitted (Dap) **NEW**..... £225.25



NEW
7S-007-011 Class 57xx 0-6-0PT pannier 7714 in BR black late crest - as preserved (Dap) **NEW**..... £199.75
7S-007-011D Class 57xx 0-6-0PT pannier 7714 in BR black late crest - as preserved - Digital fitted (Dap) **NEW**..... £225.25



NEW
7S-007-012 Class 57xx 0-6-0PT pannier 8763 in BR lined black early emblem (Dap) **NEW**..... £199.75
7S-007-012D Class 57xx 0-6-0PT pannier 8763 in BR lined black early emblem - Digital fitted (Dap) **NEW**..... £225.25



NEW
7S-007-010 Class 57xx 0-6-0PT pannier 8784 in GWR green (Dap) **NEW**..... £199.75
7S-007-010D Class 57xx 0-6-0PT pannier 8784 in GWR green - Digital fitted (Dap) **NEW**..... £225.25



NEW
7S-007-007 Class 57xx 0-6-0PT pannier 9669 in BR black late crest (Dap) **NEW**..... £199.75
7S-007-007D Class 57xx 0-6-0PT pannier 9669 in BR black late crest - Digital fitted (Dap) **NEW**..... £225.25



NEW
7S-007-009 Class 57xx 0-6-0PT pannier in Great Northern and Southern Railway ochre - as in "The Railway Children" (Dap) **NEW**..... £199.75
7S-007-009D Class 57xx 0-6-0PT pannier in Great Northern and Southern Railway ochre - as in "The Railway Children" - Digital fitted (Dap) **NEW**..... £225.25



6100 Class 61xx 'Large Prairie' 2-6-2T 6110 in GWR green Great Western lettering (Hel) (RRP £699) **BARGAIN** .. £495



6104 Class 61xx 'Large Prairie' 2-6-2T 6132 in BR lined green late crest (Hel) (RRP £699) **BARGAIN**..... £495



6102 Class 61xx 'Large Prairie' 2-6-2T 6144 in BR black early emblem (Hel) (RRP £699)..... **BARGAIN**..... £450
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-A4-001 Class A4 4-6-2 2509 "Silver Link" in LNER silver streamlined corridor tender (Hel) **NEW** £750
H7-A4-005 Class A4 4-6-2 4464 "Bittern" in LNER Garter blue streamlined corridor tender - "Record Breaker" (Hel) **NEW**..... £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) **NEW** £750



H7-A4-006 Class A4 4-6-2 60007 "Sir Nigel Gresley" in BR express blue unstreamlined corridor tender - "Record Breaker" (Hel) **NEW** £750
H7-A4-009 Class A4 4-6-2 60008 "Dwight D Eisenhower" in BR green late crest and streamlined non-corridor tender (Hel) **NEW** £750



H7-A4-008 Class A4 4-6-2 60009 "Union of South Africa" in BR green late crest and unstreamlined corridor tender (Hel) **NEW**..... £750
H7-A4-007 Class A4 4-6-2 60012 "Commonwealth of Australia" in BR green early emblem and streamlined corridor tender (Hel) **NEW**..... £750
H7-A4-007A Class A4 4-6-2 unnumbered single chimney and streamlined corridor tender in BR green early emblem 1952-1958 (Hel) **NEW**..... £750
H7-A4-001A Class A4 4-6-2 unnumbered single chimney and streamlined corridor tender in LNER silver 1935-1938 (Hel) **NEW**..... £750
H7-A4-007B Class A4 4-6-2 unnumbered single chimney and streamlined non-corridor tender in BR green early emblem 1952-1957 (Hel) **NEW** £750
H7-A4-006A Class A4 4-6-2 unnumbered single chimney and unstreamlined corridor tender in BR Express blue 1949-1952 (Hel) **NEW**..... £750



7S-005-005 Class Y3 Sentinel 4wVB 68164 in BR black early emblem (Dap) £148.75

Diesel locos



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



NEW
3704 Class 37/0 in BR green full yellow ends and split headcode boxes - unnumbered (Hel) **NEW** £509.15



NEW
3702 Class 37/0 in BR green no yellow panels and split headcode boxes - unnumbered (Hel) **NEW** £509.15



NEW
3700 Class 37/0 in BR green small yellow panels and split headcode boxes - unnumbered (Hel) **NEW** £509.15

Train sets - analogue



GM7000102 "The Didcot Survivor" - premium O gauge starter train set (Gau)..... **REDUCED**..... £552.50

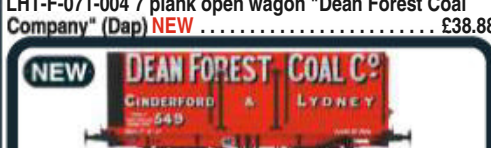
Wagons



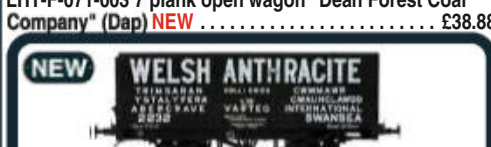
NEW
7F-018-011 4-wheel Salt van - 'Mangers Salt' - 148 (Dap) **NEW**... £42.46



NEW
LHT-F-071-004 7 plank open wagon "Dean Forest Coal Company" (Dap) **NEW** £38.88



NEW
LHT-F-071-003 7 plank open wagon "Dean Forest Coal Company" (Dap) **NEW** £38.88

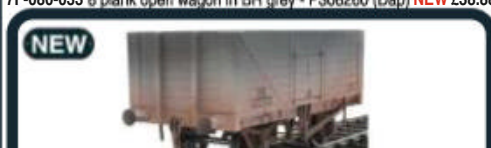


NEW
LHT-F-071-002 7 plank open wagon "Welsh Anthracite Collieries" (Dap) **NEW** £38.88

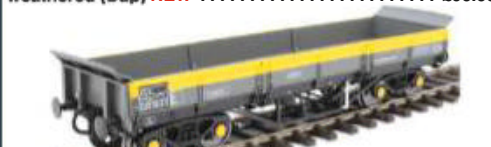
LHT-F-080-003 8 plank coke wagon rails "Modern Transport Company" (Dap) **NEW**..... £38.88
LHT-F-080-004 8 plank open wagon "E.Foster and Co, London" (Dap) **NEW**..... £38.88



NEW
LHT-F-080-001 8 plank open wagon "Norstand, Grimsby" (Dap) **NEW** £38.88



NEW
7F-080-033W 8 plank open wagon in BR grey - P308260 - weathered (Dap) **NEW** £38.88



7F-043-004 YCV 'Turbot' bogie ballast wagon DB978337 in BR Civil Engineers 'Dutch' (Dap) £59.50

Buildings - railways

LK-766 Grounded LNER 12 ton van body - plastic kit (Pec) **NEW** .. £9.50

Bridges, Tunnels & Walls

A3004 Wooden picket fence gates - 121cm (Woo) **NEW** £15

A3002 Wooden rail fence gates - 121cm (Woo) **NEW**..... £15

Track - Code 124 Bullhead Streamline



SL-700BH Box of 12 1 Yard O Gauge Flexible Nickel Silver Track (Bullhead Nickel Silver Rail) (Pec)..... £79
SL-700BH Single (Pec) £7

Cars



VA14203 Lotus Esprit Series 1 - Colin Chapman's car - Silver Diamond Metallic. (Cor) **NEW**..... £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



Q Quadruple 4 circuit power controller (Gau).... £191.25

Digital decoders

DCR-21Pin-Direct-V2 21-pin 6-function 1.1Amp direct plug decoder back EMF (Hat)..... £16.50
DCR-8PIN-HarnessMini 8-pin (harness) 2-function 1.1Amp small & thin (mini) decoder back EMF (Hat)..... £16
DCR-8PIN-HarnessMini Box of 5 (Hat)..... £72
DCR-8PIN-HarnessMini Box of 10 (Hat)..... £128



DCR-8PIN-Harness Box of 10 8-pin (harness) 4-function 1.1Amp decoder back EMF (Hat)..... £120
DCR-8PIN-Harness Single (Hat)..... £15
DCR-8PIN-Harness Box of 5 (Hat)..... £68



R8249 Box of 6 8-pin 4-function 2-sided 0.5A (1A peak) decoder (Hor)..... £92
R8249 Single (Hor)..... £16
DCR-8PIN-Direct 8-pin compact direct 4-function 1.1Amp decoder back EMF (Hat)..... £17
DCR-8PIN-Direct Box of 5 (Hat)..... £77
DCR-8PIN-Direct Box of 10 (Hat)..... £136



R8102 TTS DCC Sound Decoder 8 pin plug - Class 37 diesel (Hor)..... £36
R7294 TTS DCC Sound Decoder 8 pin plug - Hall Class - Steam Locomotive (Hor)..... £36
DCD-ZN8H-2 Zen Black - 8-pin super thin 2 function decoder harness (DCC) **NEW**..... £23
DCD-ZN360-6 Zen Black - Universal 8-pin 2 function decoder (DCC) **NEW**..... £23
DCD-ZN6D-2 Zen Blue- 6-pin Direct 2 function decoder (DCC) **NEW** .. £22.50

Digital controllers



DCC02 Prodigy "Advance 2" starter DCC controller package (Gau)..... £279

Digital control accessories

524-233 Automatic reverse loop controller for Digital operation (NCE) **NEW**..... £50
BPDC80 Pack of three DCC autofrog polarity reversal switches - for electrofrog points (Gau)..... £14.50

Point motors

DCP-CB12IP Cobalt ip slow-action analogue point motor - pack of 12 (DCC) £204
DCP-CB6IP Cobalt ip slow-action analogue point motor - pack of 6 (DCC)..... £102
DCP-CB12DIP Cobalt ip slow-action digital point motor - pack of 12 (DCC) £255
DCP-CB12OMG Cobalt Omega slow-action analogue point motor - pack of 12 (DCC)..... £165
PM-1 Seep point motor accessory switch (Gau)..... £5
PL-11 Side/surface mounted point motor (Pec)..... £8

Electronic components

DCD-MY3 3-pack of Simple Y Connectors for Alpha Mimic and Alpha Mimic Ground Signals (DCC) **NEW** £4.70
DCD-AVA-1 Alpha Meter - current draw meter for analogue or digital layouts (DCC)..... £51
DCC-BSS-2 Bus Spike Suppressor (2 Pack) (DCC) **NEW** £8.95

Lighting equipment

19853500 Battery powered LED lighting unit for Heljan O gauge coaching stock (Hel) **NEW**..... £29.74

Tools

DCS-ST2065 65 Watt Hand-Held Soldering Iron Digital Temperature Control (DCC) **NEW**..... £42.50
GM575 A3 Modelling Workstation - Lase cut kit (Gau) **NEW**..... £21.50



DCM-RR12 Rolling Road - 12 Axle - For OO, N, HO, TT, OO9, EM and P4 gauges (DCC)..... £85
DCM-RR12 Rolling Road - 8 Axle - For OO, N, HO, TT, OO9, EM and P4 gauges (DCC)..... £68
DCS-S11 Soldering Iron Stand (DCC) **NEW**..... £17

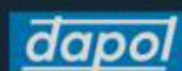
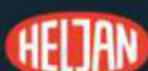
SELL yours today at www.hattonsmodelmoney.com

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:



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.



WANTED

VISIT
our **NEW SITE**
clarkrailworks.com
for **OO, HO**
N etc

LOOKING TO SELL YOUR COLLECTION?

We highly value your models

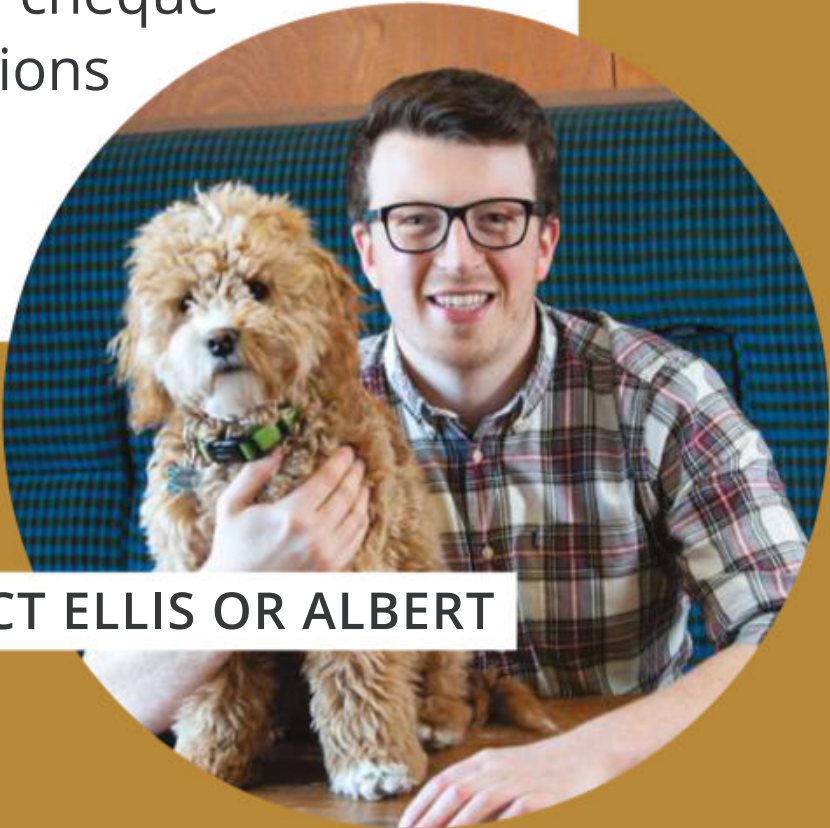
- ◆ Full/part collections purchased
- ◆ No need for a list - we travel and view/collect
- ◆ Everything purchased - railways, die-cast & Railwayana
- ◆ All gauges and ages, including continental & US
- ◆ Upfront payment by cash, bank transfer or cheque
- ◆ Vast experience in purchasing large collections
- ◆ Friendly and professional service
- ◆ Specialised interest in 7mm O gauge

GET IN TOUCH

ellisclarktrains.com

01756 701451

ellis@ellisclarktrains.com



CONTACT ELLIS OR ALBERT

Finescale O Gauge NEWS

ellisclarktrains.com 



Ellis Clark Trains

PRESFLO WAGONS

Pre-order with no deposits!

DUE Q1 2021

£69.99 each

Multi-buy discounts available
Multiple liveries & types

For full details visit **ellisclarktrains.com**

Darstaed

THOMPSON COACHES

Pre-order with
no deposits!

Finely detailed brass sides ♦ Professionally painted
Super detailed interiors w/lights ♦ Fully detailed metal chassis

**DUE Q4
2020**

£229 each

Multi-buy discounts available
Multiple liveries & types



DARSTAED MK1 RERUN now in stock



DARSTAED MK1 SUBURBANS now in stock

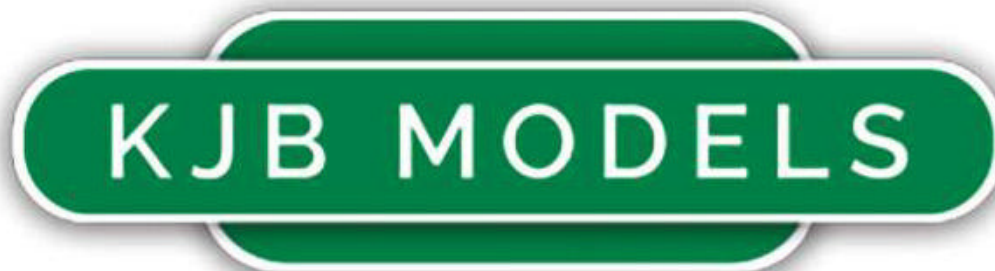


Ellis Clark Trains

Unit 2 Toller Court
Shortbank Road
Skipton BD23 2HG

ellisclarktrains.com ♦ 01756 701451 ♦ ellis@ellisclarktrains.com





NEW & SECONDHAND MODEL RAILWAY DEALER

Please visit our website
www.kjbmodels.co.uk



**NEW MODEL
SHOP OPENING
SOON IN HENSALL,
YORKSHIRE**

Please follow our Facebook page
where we will announce the
opening date

CLICK & COLLECT NOW AVAILABLE

(terms & conditions apply)

Shop not open for browsing yet

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

www.webuymodelrailways.co.uk



Visit us on
FACEBOOK

Tel: 01977 525861/07542 710005

Email: enq@kjbmodels.co.uk





you wait ages for **ONE** to come
then **12** arrive together (well almost!)

CIE Class 121 Loco
w/'Flying Snail' Logo
MM0121, MM0135.



IE Class 121 Loco
w/'IE Plug' Logo
MM0124, MM0129, MM0134.

IR Class 121 Loco
w/'IR Points' Logo
MM0127, MM0130, MM0133.



CIE Class 121 Loco Black n Tan
w/'CIE Broken Wheel' Logo
MM0125, MM0131.

CIE Class 121 Loco Supertrain
w/'CIE Broken Wheel' Logo
MM0126, MM0132.





Our 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 now taking in entries for sales in 2021, so do get in touch if you would like a visit, following government health guidance of course.

Please contact: Bob Leggett, Graham Bilbe or Hugo Marsh
on + 44 (0)1635 580595 or mail@specialauctionservices.com

Plenty Close, Off Hambridge Road, Newbury RG14 5RL

Airbrushes.com

With over 70 Years' experience in the Airbrush Industry

iwata

For any airbrush project, Iwata have you covered!



Airbrush kits for modellers
with BIG savings!

Revolution
EFFORTLESS COVERAGE™



New Iwata Revolution CR3
airbrush with 0.3mm nozzle

LIFECOLOR

ACRYLIC HOBBY COLORS



SPARMAX



We stock a HUGE range of airbrush paints & accessories:

LIQUID
PIGMENTS

DARKSTAR
MOLTEN METALS



aqua
LINE

Aiclad II

www.Airbrushes.com

01903 767800

sales@airbrushes.com

SALES LINE
01432 352809

E-Mail - sales@herefordmodelcentre.co.uk
www.herefordmodels.com

SHOP OPEN MON-SAT 9-5.30

THE HEREFORD
MODEL CENTRE

4 COMMERCIAL ROAD, HEREFORD, HEREFORDSHIRE, HR1 2BB

O09/HOE IN STOCK

WE HAVE A COMPREHENSIVE RANGE OF NARROW GAUGE STOCK AND TRACK FROM
MINITRAINS, ROCO, LILIPUT AND PECO. WE ALSO STOCK DUNDAS KITS.

NEW RELEASE

Dapol Class 21 & Class 29
All models in stock £129.15

HORNBY

R2744	Schools Blundells BR.....	£84.95
R2917	2800 Class BR.....	£103.99
R3004	Serlby Hall	£116.45
R3233	LNER D16	£100.95
R3235	British Railways D16.....	£100.95
R3242A	K1 BR Early.....	£116.95
R3243B	K1 BR Late	£116.95
R3276	LMS compound.....	£66.45
R3278	Patriot Class Bradshaw	£70.00
R3318	B17 BR Early Gilwell.....	£116.45
R3329	BR Late S15	£123.99
R3327	SR S15.....	£123.99
R3333	BR Early Adams.....	£107.95
R3334	BR Late Adams	£107.95
R3407	BR J50	£78.50
R3411	SR S15.....	£125.95
R3413	S15 BR Late	£119.45
R3420	BR 700 Class.....	£99.45
R3421	BR 700 Class.....	£99.45
R3422	Adams SR.....	£109.45
R3423	Adams BR.....	£109.45
R3426	BR Late Q6.....	£125.45
R3432	B12 BR Late	£127.95
R3414	LNER J15	£99.45
R3453	BR Black 5.....	£134.00
R3525	BoB Archibald Sinclair.....	£131.99
R3586	BR Schools Class	£75.99
R3588	LNER B17	£76.50
R3612	'Mallard' 80th Anniversary Gold Plate Edition	£183.99
R3614	LMS Patriot	£129.45
R3618	BR Rebuilt Battle of Britain	£139.45
R3621	LNER J36	£125.75
R3622	BR J36	£125.75
R3631	BR H Class.....	£116.95
R3634	SR Lord Nelson class.....	£152.95

Mail Order Service

All prices valid to 3.07.20.
You must state these prices when ordering
POSTAGE & PACKING RATES PER ORDER:
• UK Standard Postage and Packing Rate £3.95
• UK Insured Postage and Packing Rate £7.10
• UK Courier Transport and Packing Rate £9.00
• Worldwide at cost • VAT free to non EC
**Train Sets/Packs and Controllers/Handsets -
Postage charged at cost**
PRICES SUBJECT TO CHANGE
WITHOUT NOTICE.
***Please allow 7 days for clearance
when paying by cheque***
**PLEASE QUOTE OUR SPECIAL
PRICES WHEN YOU VISIT US**
CREDIT/DEBIT CARDS
WELCOME.

R3630	LNER A4 'Woodcock'	£135.99
R3676	LNER A4 'Mallard'	£151.50
R3681	LMS Duchess.....	£184.00
R3682	BR Duchess.....	£184.00
R3727	LMS PUG.....	£63.00
R3728	BR PUG	£63.00
R3729	LNER O1	£98.99
R3730	BR O1	£98.99
R3767	BR Terrier.....	£80.75
R3780	LBSCR Terrier Stepney	£80.75
R3781	K&ESR Terrier.....	£80.75
R3782	SECR Terrier.....	£80.75

Train Packs/Sets

30-047	Whiskies Galore set.....	£280.45
30-285	The Midlander Set.....	£178.45
R1180	Postal Express Set.....	£124.45
R1230	GWR HST train set.....	£119.99
R2372m	Royal Dutchey Pack.....	£95.00
R2815	Southern Suburban Ltd... ..	£159.00
R2986	Date with the Duchy	£179.90
R3093	Tornado Train Pack.....	£116.99
R3299	1945 Going Home.....	£259.45
R3399	EWS Freight train pack ...	£184.99
R3402	Queen of Scots pack	£263.99
R3670	72xx Freight pack.....	£138.95
R3671	K1 Freight pack.....	£128.95

HORNBY
Diesel Electric Locomotives

R3343	Class 08 F.G.W.....	£104.45
R3268	Class 67 Arriva.....	£122.90
R3373	Class 71 BR Green w/panel	£134.95
R3374	Class 71 BR Blue	£134.95
R3376	Class 71 BR Green	£134.95
R3290A	BR 2 Hal Green	£113.90
R3262	Class 31 DCR	£142.45
R3473	Class 56	£135.99
R3485	Class 08 Laira Blue	£109.45
R3573	Class 66 GBRF.....	£79.45
R3577	Sentinel graham.....	£58.00
R3580	BR Class 87.....	£139.40
R3582	Class 87 'King Arthur' Intercity	£139.25
R3685	GWR HST.....	£261.00
R3658	Class 50 'Glorious' NSE..	£129.25
R3657	Class 60 Loadhaul.....	£162.00
R3659	Class 67 Colas.....	£144.00
R3669	GWR Railcar.....	£44.99
R3704	R&H 48Ds Rustons Works.	£71.99
R3705	R&H 48Ds Dewars.....	£71.99
R3706	R&H 48Ds Army	£71.99
R3707	R&H 48Ds Longmorn.....	£71.99
R3739	Class 87 BR Blue	£153.89
R3742F	Class 92 DB Romania.....	£98.99
R3741	Class 92 GBRF.....	£76.50

R3757	Class 47 Prince William	£64.00
R3758	Class 47 Prince Henry	£64.00
R3760	Class 59 GBRf.....	£67.99

HORNBY TRACK

R083	Buffer Stop	£1.65
R207	Track Fixing Pins	£2.50
R600	Straight	£1.15
R601	Double Straight	£1.85
R604	Curve 2nd radius.....	£1.65
R605	Double Curve 1st Rad.....	£2.05
R606	Curve 2nd Rad.....	£1.40
R607	Double Curve 2nd Rad.....	£1.95
R608	Curve 3rd Rad.....	£1.65
R609	Double Curve 3rd Rad.....	£2.25
R610	Short Straight.....	£1.10
R614	LH Diamond Crossing.....	£9.25
R615	RH Diamond Crossing.....	£9.25
R617	Uncoupling Ramp	£2.30
R618	Double Isolating Rail	£6.85
R620	Railer Uncoupler	£4.35
R628	Half Curve 3rd Rad.....	£1.80
R643	Half Curve 2nd Rad.	£1.20
R8072	LH Point.....	£7.95
R8073	RH Point	£7.95
R8074	LH Curved Point	£12.60
R8075	RH Curved Point.....	£12.60
R8076	Y Point.....	£8.95
R8077	LH Express Point.....	£12.60
R8078	RH Express Point.....	£12.60
R8261	4th Radius Curve.....	£1.85

HORNBY
Track Accessories

R076	Footbridge	£15.10
R169	Junction Home Signal.....	£10.35
R170	Junction Distant Signal	£10.35
R171	Single Home Signal	£7.95
R172	Single Distant Signal.....	£7.95
R189	Single Brick Bridge.....	£7.95
R406	Colour Light Signal	£19.00
R574	Trackside Accessories.....	£12.95
R626	Point Underlay.....	£4.20
R636	Double Level Crossing	£20.15
R638	Track Underlay	£10.55
R645	Single Level Crossing	£12.45
R658	Inclined Pier Set.....	£12.65
R659	High Level Pier Set	£6.95

HORNBY
Trackside

R460	Straight Platform	£3.45
R462	Large Curve Platform.....	£3.45
R463	Small Curve Platform.....	£3.45
R464	Platform Ramp	£3.45
R495	Platform Subway	£3.45
R510	Platform Shelter	£10.95

R8003	Water Tower.....	£13.55
R8007	Booking Hall.....	£24.99

HORNBY
Control Equipment

R044	Point Switch.....	£8.45
R046	Two Way Switch	£8.45
R047	On/Off Switch	£8.45
R602	Power Connecting Clip.....	£1.65
R8014	Point Motor.....	£6.75
R8015	Point Motor Housing.....	£3.99

Hornby TTS sound decoders

BACHMANN
Steam Locomotives

31-001	Robinson BR Late Crest	£94.99
31-002	Robinson BR Early Crest ...	£94.99
32-002A	BR Hall Black weathered.	£140.20
31-003A	Robinson 04 LNER	£110.45
32-007	GWR Hall	£135.95
31-014	Class 7F SDJR Black	£125.75
31-015	Class 7F LMS Black.....	£125.75
31-088	BR Black Earl	£118.95
31-127	CL3000 BR ROD	£118.45
31-128	BR ROD Weathered	£102.45
31-136	DC D11/2 BR.....	£115.90
31-318A	LNER J11	£127.45
31-434	Class 1f BR Early.....	£81.55
31-435	Class 1f BR Early	£81.55
31-462A	C Class BR Early.....	£106.20
31-465	C Classs BR	£93.46
31-480	Class G2A LMS	£101.95
31-481	Class G2A BR Early	£114.70
31-614	V3 BR Late	£110.45
31-628	DC 3F BR Black Weathered	£93.20
31-691	BR Early Stanier Mogul ...	£135.95
31-761	GNR Atlantic.....	£169.95
31-783	Fountains Hall BR.....	£114.75
31-921	BR H2 Atlantic.....	£161.45
31-932	DC BR Compound	£127.75
31-933	BR Compound Late Crest	£112.88
31-980	Standard 3MT Green	£110.45
32-078	GWR 56XX.....	£97.70
32-154A	N Class BR Black weathered	£99.10
32-176	BR Crab.....	£123.20
32-178A	LMS Crab	£123.20

32-550B	Tornado BR Green	£127.95
32-233	3F Jinty SDJR	£62.00
32-880	Fairburn LMS	£106.20
35-050	LNWR Coal Tank.....	£101.95
35-051	LMS Coal Tank	£101.95
35-052	BR Coal Tank.....	£101.95

BACHMANN
Diesel/Electric Locomotives

31-040	SWT Class 450	£271.95
31-041	SWT Class 450 withd.....	£297.45
31-269	MLV Jaffa	£83.26
31-535	CL105 BR Blue Power Twin	£84.45
31-575	Windhoff MPV NWR.....	£104.00
31-576DC	Windhoff MPV NWR.....	£114.00
31-577	Windhoff Railtrack.....	£104.00
31-660A	BR Class 47 L/L	£135.95
31-664	Class 47 Railfreight weathered	£152.95
32-122	BR Class 08 Rfd.....	£106.20
32-610	Class 90 Intercity	£152.95
32-789	Colas Class 37 'Merl Evans'	£135.95
32-790A	Class 37 large logo	£144.45
32-928	Class 150 Sprinter	£135.95
32-937	Class 150 Centro	£127.45
32-992	Wickhams Trolley Yellow ...	£67.95
32-993	Wickhams Trolley Yellow ...	£67.95
32-994	Wickhams Trolley Green ...	£76.45

DAPOL/OXFORD/HELJAN/DJM

GV2013	Janus British Steel.....	£92.45
DJM00J94-SPI	NCB J94.....	£99.75
OR76 DG001	GWR Dean Goods	£88.95
OR76DG005	Dean Goods w.snowplough	£94.50
OR76AR005	Adams East Kent	£84.45
OR76AR006	Adams SR.....	£84.45
3526	Hymek BR Green.....	£110.45
9005	Metropolitan No 19.....	£106.95
9006	Metropolitan No 6 William Penn	£106.95
9008	London Transport No12 Sarah Siddons Preserved	£106.95
GV2017	GWR 0-6-OT	£52.45
H1303	1361 BR Early	£122.45
H1304	1361 BR Late.....	£122.45

EXHIBITIONS
ATTENDING 2020

18TH & 19TH SEPTEMBER REDDITCH
18TH & 19TH SEPTEMBER SWANSEA
26TH & 27TH SEPTEMBER LYDNEY
28TH & 29TH NOVEMBER WARLEY NEC

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
Over 100 R-T-R locos available off the shelf

GLADIATOR LOCO KITS

GL1 LNER/BR D10/11 4-4-0.....£340.00
GL14 LNER / BR Q4 TINY 0-8-0.....£350.00
GL16 LNER / BR Q1/1 0-8-0 TANK.....£320.00
GL20 LMS/BR PRINCESS.....£460.00
GL21 LMS/BR ROYAL SCOT.....£400.00
GL23 LMS/BR BRITISH LEGION.....£400.00
GL24 LMS/BR ORIGINAL PATRIOT.....£400.00
GL28 LMS/BR 2P 4-4-0.....£320.00
GL36 LBSC/SR/BR H2 ATLANTIC.....£410.00
GL44 LNWR/LMS /BR COAL TANK 0-6-2.....£270.00
GL50 LNER/BR 2-8-8-2 GARRATT.....£650.00
GL57 LNER / BR L1 2-6-4.....£320.00
GL58 LNER / BR B1 4-6-0.....£380.00
GL59 LNER / BR K1 2-6-0.....£370.00
GTR62 SR/BR Urie King Arthur.....£460.00
GL70 SR / BR SCHOOLS 4-4-0.....£410.00
FT9 NER/LNER/BR G6/BTP 0-4-4T.....£240.00

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 can.....£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/Crews loco.....£20.00
H3 L.M.S. loco lining.....£20.00
H3A L.M.S. coach lining.....£20.00
H4 L.N.E.R. green loco and coach.....£20.00
H4A L.N.E.R. black loco and Gill Sands.£20.00
H5 L.N.E.R. loco lining.....£20.00
H6 L.M.S. goods wagon lettering.....£18.50
H7 G.W.R. loco and coach lettering.....£20.00
H8 G.W.R. loco and coach lining.....£20.00
H9 S.R. Maunsell loco and coach lettering.£20.00
H10 S.R. Bulleid loco and coach lettering.£20.00
H11 G.W.R. goods wagon lettering.....£18.50
H12 L.N.E.R. goods wagon lettering.....£18.50
H13 S.R. goods wagon lettering.....£18.50
H14 BR steam loco and coach lettering....£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/HRV/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
47-541 Walls & Gates.....£25.45
47-558 Corrugated Shed.....£16.95
47-572 Midland Water Crane.....£25.45
47-002 Washing Plant.....£84.95
47-0054 Mess Room.....£59.50

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, SQ, 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 Mk2 / 2a COACHES

T.S.O. / F.K. / B.S.O. / B.F.K.
RRP £279.00 OUR PRICE £237.25
DUE FOR RELEASE 2021
ADVANCE ORDERS WELCOME

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 37/0

Split headcode
RRP £599.00 OUR PRICE £509.15
NOW AVAILABLE

NEW HELJAN CLASS 37/4

EWS or Regional Railways
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

TOWER MODELS

LIMITED EDITION ICI WAGONS

1950's:
Red Salt Van (9 types) £42.50 each
5 plank opens (2 types) £38.00
NOW AVAILABLE
1960's:
Blue Salt Vans (4 types) £42.50
5 plank Lime (5 types) £40.00
5 plank Alkalid (5 types) £40.00
AVAILABLE OCTOBER
16 ton minerals
SODA ASH Livery(3 numbers) £41.50
AVAILABLE CHRISTMAS

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
NOW AVAILABLE

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 SPRING 2021

HELJAN CLASS 40

CENTRE HEADCODE 5 liveries
RRP £549.00 OUR PRICE £466.65
AVAILABLE LATE 2020

NEW HELJAN CLASS 17

Four liveries Available
RRP £549.00 OUR PRICE £466.65
AVAILABLE END 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

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

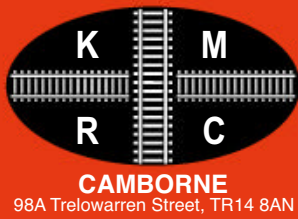
Visit our well stocked shop, 200 yards from Talbot Rd. Bus Station (Blackpool North Railway Station 400 yards). Open Mon to Sat 9.30 to 5.00

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.

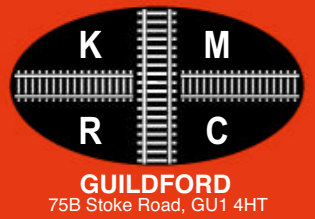
All prices include VAT @ 20%.
We reserve the right to alter prices without notice.



Kernow Model Rail Centre

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

UK P&P £4 PER ORDER / ORDERS OVER £200 POST FREE AT TIME OF DESPATCH



LATEST ARRIVALS / OO GAUGE

BACHMANN OO



32-485 Class 40 Diesel No. D365 BR Green with small yellow panels.....£160.99
32-485SF Class 40 Diesel No. D365 BR Green w/small yellow panels. DCC Sound.£237.99
38-127 35 Ton Sliding Door Box Van VBA No. 200304 BR Bauxite (TOPS).....£28.95
38-128 35 Ton Sliding Door Box Van VBA No. 200254 Railfreight Red & Grey.....£28.95
38-148 35 Ton Sliding Door Box Van VBA No. 200687 Railfreight Brown.....£28.95

DAPOL OO

4L-001-007 GWR Bracket Signal 1 Arm Right Hand.....£51.95
4L-001-008 GWR Bracket Signal 1 Arm Left Hand.....£51.95

EFE Rail OO

E84001 Hymek Diesel Locomotive No. D7005 BR Green.....£135.99
E84002 Hymek Diesel Locomotive No. D7021 BR Green, weathered.....£152.99
E84003 Hymek Diesel Locomotive No. 7016 BR Blue.....£135.99



E84004 Hymek Diesel Locomotive No. D7056 BR Blue, weathered.....£152.99
E85001 Class J94 0-6-0 Steam Locomotive No. 68075 BR Black L/C, weathered.....£144.95
E85002 Class J94 0-6-0 Steam Locomotive No. 68043 BR Black E/E.....£127.95



E85003 Class J94 0-6-0 Steam Locomotive No. 19 NCB.....£127.95
E85004 Class J94 0-6-0 Steam Locomotive "Amazon" Green, weathered.....£144.95
E85005 Class J94 0-6-0 Steam Loco No. 195 Longmoor Military Railway.....£127.95



E85006 Class J94 0-6-0 Steam Locomotive No. 92 Army Green.....£127.95
E87000 JIA NACCO China Clay Wagon No. 33 70 0894 007 IMERYS Blue, pristine.....£44.95



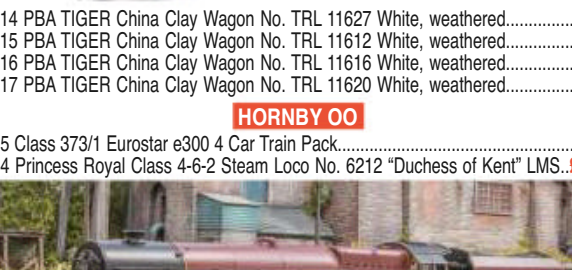
E87001 JIA NACCO China Clay Wagon No. 33 70 0894 008 IMERYS Blue, pristine.....£44.95



E87002 JIA NACCO China Clay Wagon 33 70 0894 009 IMERYS Blue, lightly withrd.....£47.95
E87003 JIA NACCO China Clay Wagon 33 70 0894 010 IMERYS Blue, lightly withrd.....£47.95



E87004 JIA NACCO China Clay 33 70 0894 011 IMERYS Blue, heavily weathered.....£49.95
E87005 JIA NACCO China Clay 33 70 0894 012 IMERYS Blue, heavily weathered.....£49.95
E87010 PBA TIGER China Clay Wagon No. TRL 11601 White, pristine.....£42.95
E87011 PBA TIGER China Clay Wagon No. TRL 11603 White, pristine.....£42.95
E87012 PBA TIGER China Clay Wagon No. TRL 11606 White, pristine.....£42.95
E87013 PBA TIGER China Clay Wagon No. TRL 11610 White, pristine.....£42.95



E87014 PBA TIGER China Clay Wagon No. TRL 11627 White, weathered.....£46.95
E87015 PBA TIGER China Clay Wagon No. TRL 11612 White, weathered.....£46.95
E87016 PBA TIGER China Clay Wagon No. TRL 11616 White, weathered.....£46.95
E87017 PBA TIGER China Clay Wagon No. TRL 11620 White, weathered.....£46.95

HORNBY OO

R3215 Class 373/1 Eurostar e300 4 Car Train Pack.....£98.99
R3854 Princess Royal Class 4-6-2 Steam Loco No. 6212 "Duchess of Kent" LMS.....£170.99



R3854X Princess Royal Class 4-6-2 Steam No. 6212 "Duchess of Kent". DCC Fitted.£188.99
R3855 Princess Royal Class 4-6-2 Steam No. 46211 "Queen Maud" BR Green L/C.£170.99
R3855X Princess Royal Class 4-6-2 Steam No. 46211 "Queen Maud". DCC Fitted.£188.99
R3902 Class 66 Co-Co Diesel Locomotive No. 66 725 "Sunderland" GBR.....£67.99
R3923 Class 66 Co-Co Diesel 66 587 "As One, We Can" Ocean Network Express.....£74.99
R3940 Class 66 Co-Co Diesel No. 66 747 "Made in Sheffield" GBR/Newell & Wright.£74.99
R4580 Eurostar Class 373/1 e300 Blue Divisible Cwentre Saloons Coach Pack.....£47.99
R4933A Mk3 Trailer Guard Standard Coach No. 44061 LNER - Coach B.....£34.99
R3725 GWR Class 5101 2-6-2T Large Prairie Steam Loco No. 4160 BR Green L/C.£125.99



R4943 Mk2F Standard Open Coach No. 5945 Virgin Trains.....£31.49
R4943A Mk2F Standard Open Coach No. 5946 Virgin Trains.....£31.49
R4944 Mk2F First Open Coach No. 3340 Virgin Trains.....£31.49
R4944A Mk2F First Open Coach No. 5946 Virgin Trains.....£31.49
R4945A Mk2F Brake Standard Coach No. 9523 Virgin Trains.....£31.49
R6911B LSWR 20 Ton New Van Goods Brake Van No. 10124 LSWR Brown.....£22.49
R6915B 24 Ton Diag. 1543 Goods Brake Van No. S55063 BR Grey.....£22.49
R6935 LMS D1919 20T Brake Van No. 730386 LMS Brown.....£20.99
R6936 D2068 20T Brake Van No. DM731833 BR Grey.....£20.99
R6938 SR Diag. 1543 Goods Brake Van No. SR55052 SR Brown.....£22.49
R6940 AA15 20 Ton Toad Brake Van No. 68611 GWR Grey.....£19.99
R6941 AA15 20 Ton Toad Brake Van No. W68604 BR Grey.....£19.99
R6942 Dia. 1/507 20 Ton Brake Van No. DB954812 BR Engineers Green.....£19.99

R6953 YGB Seacow Bogie Ballast Hopper Wagon No. DB980121 BR.....£26.99
R6959 20T Tank Wagons Corn Products. Pack of 3.....£44.49
R6960 HBA Top Skip Hopper Wagon No. 352741.....£22.49



R6967 100 Ton TEA Bogie Tank Wagon No. VTC 85951 VTC, weathered.....£26.99
R6977 8 Ton Lime Wagon No. 130 John Delaney.....£14.99
R6985 Dia. 1/507 20T Brake Van No. B954913 BR Brown.....£18.99
R40002 Mk3 Trailer First Open Coach No. 41085 BR - Coach H.....£31.49
R40002A Mk3 Trailer First Open Coach No. 41086 BR - Coach G.....£31.49
R40003 Mk3 Trailer Standard Open Coach No. 42169 BR - Coach E.....£31.49
R40003A Mk3 Trailer Standard Open Coach No. 42168 BR - Coach D.....£31.49
R40003B Mk3 Trailer Standard Open Coach No. 42167 BR - Coach C.....£31.49
R40003C Mk3 Trailer Standard Open Coach No. 42103 BR - Coach B.....£31.49
R40004 Mk3 Trailer Buffet Coach No. 40703 BR - Coach F.....£31.49
R40005 Mk3 Trailer Guard Standard Coach No. 44055 BR - Coach A.....£31.49

HELJAN OO



3441 Class 33/0 Diesel Locomotive No. 33 025 "Sultan" BR Blue with light grey roof.£126.99



3442 Class 33/0 Diesel Locomotive No. 33 008 "Eastleigh" BR 1980s Green.....£126.99



5017 Cargowagon No. 2797 597 Cargowagon livery, weathered.....£42.95
5018 Cargowagon No. 2797 664 plain silver & blue livery, pristine.....£33.99
5019 Cargowagon No. 2797 597 plain silver & blue livery, weathered.....£42.95
5020 Cargowagon Twin Pack No. 2797 617-0 Railadventure Grey, pristine.....£67.99
5021 Cargowagon Twin Pack No. 2797 698-8 GRUP FERROVIAR ROMAN, withrd.....£42.95

OXFORD RAIL OO

OR76TK2001 12 Ton Tank Wagon No. 64 Mobil.....£19.95
OR76TK2002 12 Ton Tank Wagon No. 10 Carless Petrol.....£19.95

LATEST ARRIVAL / O GAUGE

HELJAN O

19853500 Interior Light Bar for O Gauges Coaches.....£30.99

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

LATEST ARRIVALS / N GAUGE

EFE RAIL N



E84501 Class 17 Diesel Locomotive No. D8585 BR Green w/small yellow panels...£101.99
E84502 Class 17 Diesel Locomotive No. D8594 BR Green w/small yellow panels...£101.99
E84503 Class 17 Diesel Locomotive No. D8560 BR Green w/small yellow panels...£101.99



E84507 Class 17 Diesel Locomotive Ribble Cement.....£101.99



E84511 Class 17 Diesel Locomotive No. D8507 BR Blue, weathered.....£110.95

CHECK OUR WEBSITE FOR INFORMATION ON BOTH OUR CAMBORNE & GUILDFORD SHOPS

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

*subject to stock levels

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



BARGAIN CLEARANCE

VISIT OUR WEBSITE FOR EVEN MORE BARGAINS



OO GAUGE

BARGAIN BUNDLES

K2104PACK O2 and Water Column Pack.....	£129.99
K9611 Bachmann NSE Mk1 Coach Pack.....	£74.99
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
K9998A Bachmann Scenecraft China Clay Dries Pack with FREE Landrover.....	£99.99

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.....	£79.99
31-190 Jubilee Steam Loco No. 45575 'Madras' BR Black BRITISH RAILWAYS.....	£118.99



31-318A Robinson Class J11 (GCR 9) Steam Loco No. 5954 LNER Black.....	£104.99
31-321DS Robinson Class J11 (GCR 9) Steam Loco No. 64377 BR Black E/E, whrd.....	£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
31-615 V3 Steam Tank Locomotive No. 67690 BR Lined Black E/E, straight pipes.....	£73.99
31-661DS Class 47/3 Diesel Locomotive No. 47 346 BR Dutch. DCC Sound.....	£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
32-165 Southern N Class Steam Locomotive No. 31874 BR Lined Black E/E.....	£114.99
32-166 Southern N Class Steam No. 1406 SR Black Bulleid Sunshine lettering.....	£109.99
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
32-560 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 No. 57 007 'Freightliner Bond' Freightliner. Sound.....	£189.99
32-806 Class 47/0 Diesel Locomotive No. D1842 BR Two-Tone Green.....	£129.99
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
36-102 45ft Containers Dream Box livery. Pack of 2.....	£9.95
37-091 7 Plank End Door Wagon Tredegar.....	£12.95
37-092 7 Plank End Door Wagon Whitwick, weathered.....	£13.95



37-097 Coal Trader Pack. 3 x 5 Plank Wagons, weathered.....	£37.95
37-114 7 Plank Fixed End Wagon Baldwin, weathered.....	£12.95
37-115 7 Plank Fixed End Wagon I.C.I. Chance & Hunt Ltd.....	£11.95
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
37-552C 46T POA Mineral Wagon TRL 5320 'ARC TIGER', weathered.....	£15.95
38-105 Triple Pack 34 Ton PNA Wagons Railtrack 5 Rib, weathered.....	£41.99
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
38-400A 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
38-550A Midland 20T Brake Van BR Grey (with Duckets).....	£17.95
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
38-603 21 Ton Grain Hopper No. 23 Bass Charrington.....	£16.95
38-604 21 Ton Grain Hopper BR PO Worthington Grey.....	£16.95
38-990 20 Ton Brake Van & SR Pill Box Twin Pack NSE.....	£36.95
39-002 Twin Pack BR Mk2A BFK HST Barrier Vehicles BR Blue.....	£54.99
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
39-082B BR Mk1 BSK Brake Second Corridor Coach No. 35329 Network SouthEast.....	£27.95
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
39-176D 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
39-242 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
39-265 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
39-310C 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
39-410A 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
39-502A 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

HORNBY

R3373 Class 71 Electric Locomotive No. E5001 BR Green with small yellow panel.....	£109.99
R3376 Class 71 Electric Locomotive No. E5022 BR Green with no yellow ends.....	£109.99
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
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
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
R3574 Class 67 Diesel Locomotive No. 67 013 DB Schenker.....	£109.99
R3738 A3 Class 4-6-2 Steam Locomotive 4472 "Flying Scotsman" Alan Pegler.....	£199.99
R4677B LMS Non-Corridor 57ft Third Class Brake Coach No. 20754.....	£24.50
R4677C LMS Non-Corridor 57ft Third Class Brake Coach No. 20755.....	£24.50
R4689 LMS Non-Corridor 57ft Composite Coach No. M16574.....	£27.99
R4690 LMS Non-Corridor 57ft Third Class Coach No. M11912M.....	£27.99
R4691 ex LMS Non-Corridor 57ft Third Class Brake Coach No. M20787M BR.....	£24.50
R4691A ex LMS Non-Corridor 57ft Third Class Brake Coach No. M20788M BR.....	£24.50
R4927 Sovereign BR Midland Suburban Coach Pack.....	£99.96
R6744 4 Plank Wagon No. 35 North Bitchburn Coal Co. Ltd - Darlington.....	£11.00
R6768 LMS Brake Van No. 730159 LMS Brown.....	£12.00
R6802 SR Brake Van No. 55891 SR Brown.....	£14.99

KMRC MODELS

31-650L Class 47 Diesel Locomotive No. D1670 "Mammoth" BR Two Tone Green.....	£129.99
31-650LDC Class 47 Diesel Locomotive No. D1670 "Mammoth". DCC Fitted.....	£149.99
31-650LDS Class 47 Diesel Locomotive No. D1670 "Mammoth". Sound Fitted.....	£229.99
31-650Q Class 47 Diesel Locomotive No. 47 829 Police.....	£129.99
31-650QDC Class 47 Diesel Locomotive No. 47 829 Police. DCC Fitted.....	£149.99
31-650QDS Class 47 Diesel Locomotive No. 47 829 Police. Sound Fitted.....	£229.99
31-651Z Class 47 Diesel Locomotive No. 47 973 "Midland Counties".....	£129.99
31-651ZDC Class 47 Diesel Loco No. 47 973 "Midland Counties". DCC Fitted.....	£149.99
31-651ZDS Class 47 Diesel Loco No. 47 973 "Midland Counties". Sound Fitted.....	£229.99



31-653Z Class 47 Diesel Locomotive No. 47 706 ScotRail NSE branding, weathered.....	£135.99
31-653ZDC Class 47 Diesel No. 47 706 ScotRail NSE, weathered. DCC Fitted.....	£152.99
31-653ZDS Class 47 Diesel No. 47 706 ScotRail NSE, weathered. Sound Fitted.....	£219.99



32-066Z Class 43 Warship No. D845 "Sprightly" BR Green.....	£139.99
32-066ZDC Class 43 Warship No. D845 "Sprightly" BR Green. DCC Fitted.....	£156.99
32-135X Class 4575 Prairie No. 5541 BR Green, weathered.....	£99.99
32-727W Class 66 Diesel Locomotive No. 66 709 'Sorrento' GBRf.....	£127.95
32-727WDC Class 66 "Sorrento" GBRf. DCC Fitted.....	£143.95
32-727WDS Class 66 "Sorrento" GBRf. DCC Sound Fitted.....	£209.99
32-762Z Class 57 No. 57 305 Network Rail known as 'Sand Castle'.....	£134.95
32-762ZDC Class 57 No. 57 305 Network Rail known as 'Sand Castle'. DCC Fitted.....	£149.95
32-762ZDS Class 57 No. 57 305 Network Rail known as 'Sand Castle'. Sound Fitted.....	£214.99



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
38-131Z 40 Ton Seacow YGB Bogie Hopper Wagon Departmental Dutch, weathered.....	£45.95
38-132Z 40 Ton Seacow YGB Bogie Hopper Wagon EWS, weathered.....	£45.95
38-260Y Delabole Slate Presflo Wagon Triple Pack, BR Bauxite.....	£49.99
39-273Z BR Mk1 GUV Coach S86804 BR (SR) Green.....	£39.99
K2104 0-4-4T Class O2 No 30225 BR Black L/C.....	£99.99
K2104PACK O2 and Water Column Pack.....	£129.99
K2106 0-4-4T Class O2 No 30193 BR Black E/E.....	£99.99



K2201 0-6-0 1361 Steam Locomotive No. 1361 BR Black L/C.....	£69.99
K2201A 0-6-0 1361 Steam Locomotive No. 1361 Photographic Grey.....	£69.99
K2202 0-6-0 1361 Steam Locomotive No. 1362 BR Black E/E.....	£69.99
K2203 0-6-0 1361 Steam Locomotive No. 1363 GWR Green w/Shirtbutton emblem.....	£69.99
K2204 0-6-0 1361 Steam Locomotive No. 1364 GWR Green with GWR lettering.....	£69.99
K2205 0-6-0 1361 No. 1365 BR Black L/C, weathered.....	£69.99
SB005Z SPA Open Wagon EWS Bulk Pack of 4.....	£79.99

N GAUGE

GRAHAM FARISH

370-430 Capital Connection Train Pack.....	£161.95
--	---------



371-651A Class 57/0 Diesel Loco 57 008 "Freightliner Explorer", 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
373-626D 31 Ton OBA Open Wagon 110717 Railfreight Red & Grey, weathered.....	£16.00
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.....	£20.95
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
374-193 BR Mk1 BSK Brake Second Corridor Coach 35464 Network SouthEast.....	£26.99
374-194 BR Mk1 BSK Brake Second Corridor Coach 35452 Regional Railways.....	£26.99
374-258C BR Mk1 CK Corridor Composite Coach No. M16153 BR Blue & Grey.....	£22.95
374-415 Southern PMV Passenger Luggage Van No. S1068S BR Crimson.....	£16.95
374-417 Southern PMV Passenger Luggage Van No. S1733 BR Blue.....	£16.95
374-610 BR Auto Trailer No. W234 BR Crimson.....	£26.99
374-611 BR Auto Trailer No. W238W BR Maroon.....	£26.99
374-612 BR Auto Trailer No. W237W BR Crimson.....	£26.99
374-640 BR Mk 1 CCT NOV Coach No. M94739.....	£16.95
374-643 BR MK 1 CCT Coach QXQ No. ADB 977076 BR Re-Railing Yellow.....	£16.95
374-830C Stanier Brake Corridor First Coach No. 5057 LMS Crimson Lake.....	£20.95
374-831C Stanier Brake Corridor First Coach No. M5056M BR Crimson & Cream.....	£20.95
374-845C Stanier Corridor First Coach No. 1055 LMS Crimson Lake.....	£22.95
374-846C Stanier Corridor First Coach No. M1081M BR Crimson & Cream.....	£20.95
374-847A Stanier Corridor First Coach No. M1053M BR Maroon.....	£20.99
374-875 LMS 50ft Inspection Saloon No. 45028 LMS Lined Crimson Lake.....	£25.95
374-876 LMS 50ft Inspection Saloon No. M45029M BR Maroon.....	£25.95
374-902A BR Mk1 Travelling Post Office Coach No. M1053M BR Blue & Grey.....	£29.95
374-925A BR Mk1 SLSTP Sleeping Second Coach No. E2591 BR Maroon.....	£26.99
374-990 Mk1 Coach Pack 'Works Test Train' BR Blue & Grey, weathered.....	£39.95
377-031 5 Plank Wagon with Steel Floor No. 3162 ICI Lime with Load.....	£12.99
377-032 5 Plank Wagon No. 45 Helwith Bridge Road Stone Quarry with Load.....	£12.99
377-059 5 Plank Wagon No. 91 Salt Union Ltd Stoke Works.....	£10.50



377-065 Coal Trader Triple Pack. 3 x 5 Plank Wagons, weathered.....	£31.95
377-206A 6 Plank Wagon No. P192891 'Suncoke', 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, whrd.....	£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, whrd.....	£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

GRAHAM FARISH SCENECRAFT

42-0001 Two Road Brick Engine Shed.....	£21.95
42-0005 Portable Office.....	£10.50
42-0064 Parachute Water Tower.....	£14.95
42-059 Oak Hill Brewery Boiler House.....	£4.75
42-150 Road Side Farm Shop.....	£12.00
42-166 Shillingstone Parcel Office.....	£6.99
42-169 Shillingstone Platelayers Hut.....	£5.50
42-181 Depot Hoist.....	£22.95
42-245 Low Relief Corner Chemists.....	£12.00
42-253 Low Relief Greengrocers.....	£12.00
42-298 Low Relief Boiler House.....	£19.95

PRE-ORDER WITH TMC



10% OFF

R3841 Hornby
LNER Class W1 'Hush Hush' 4-6-4 10000
'British Enterprise' - Era 3
Was £199.99 **NOW £179.99**



HORNBY®



10% OFF

R3844 Hornby
OO Scale BR Rebuilt Class W1 4-6-4
60700 - Era 4
Was £199.99 **NOW £179.99**



10% OFF

R3830 Hornby
BR Thompson Class A2/2 4-6-2 60501
'Cock o' the North' - Era 4
Was £190.00 **NOW £170.99**



10% OFF

R3838 Hornby
OO Gauge BR Standard 2MT 2-6-0
78010 - Era 4
Was £179.99 **NOW £161.99**



10% OFF

R3842 Hornby
OO Gauge LNER (Promotional) Class
W1 'Hush Hush' 4-6-4 10000 - Era 3
Was £199.99 **NOW £179.99**



15% OFF

32-683RJSF Bachmann
Class 45/0 '45022' Lytham St. Annes BR
Blue (SOUND FITTED)
Was £234.95 **NOW £199.71**



15% OFF

31-742 Bachmann
OO Gauge MR 1532 (IP) Tank 58072 BR
Lined Black (Early Emblem)
Was £149.95 **NOW £127.45**



15% OFF

35-025 Bachmann
OO Gauge GWR 94XX Pannier Tank
9402 GWR Green (GWR)
Was £129.95 **NOW £110.46**



15% OFF

35-127 Bachmann
OO Gauge Class 20/3 20312 DRS Com-
pass (Original)
Was £164.95 **NOW £140.21**



15% OFF

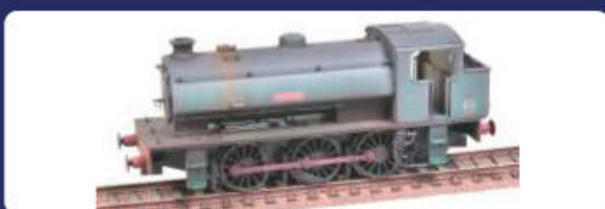
31-998 Bachmann
OO Gauge LMS 10001 BR Black (Early
Emblem)
Was £184.96 **NOW £157.21**

www.themodelcentre.com t. 01947 899125
Hill Farm, Beck Hole, Whitby, YO22 5LF

TMC WEATHERED OO SCALE PRODUCTS READY FOR IMMEDIATE DISPATCH



E85005 EFE Rail J94 Tank
195 Longmoor Military Railway Lined
Blue Real Coal and Weathered by TMC
Was £189.95 **NOW £167.50**



E85004 EFE Rail J94 Tank
AMAZON National Coal Board Green
Real Coal and Weathered by TMC
Was £209.95 **NOW £184.49**



32-806 Bachmann Class 47/0
OO Gauge Class 47/0 D1842 BR Parts
Fitted (1 end) Deluxe Weathered by TMC
Was £229.96 **NOW £204.49**



32-035B Bachmann
Class 20/0 Headcode Box 20174 BR Blue
Deluxe Weathered by TMC
Was £189.95 **NOW £169.00**



E85003 EFE Rail J94 Tank
J94 Tank No.19 NCB Blue & Yellow Real
Coal and Weathered by TMC
Was £189.95 **NOW £167.50**



E85001 EFE Rail J94 Tank
J94 Tank 68075 BR Black (L/Crest) Real
Coal and Weathered by TMC
Was £209.95 **NOW £184.49**



32-442 Bachmann
32-442 Bachmann OO Gauge Class 24/1
24137 BR Blue Weathered by TMC
Was £189.95 **NOW £166.00**



32-482Z Bachmann Class 40
233 Empress of England BR Blue with
MEDIUM Weathering by TMC
Was £219.95 **NOW £191.50**



31-520 Bachmann Class 159
Class 159 3-Car DMU 159013 BR Net-
work SouthEast Weathered by TMC
Was £404.95 **NOW £353.95**

SALE ITEMS SELLING OUT



31-003A Bachmann
OO Gauge LNER Robinson O4 6184
LNER Black (LNER Original)
Was £139.96 **NOW £70.00**



32-376A CI 37/4 Robert F. Fairlie
Refurbished 37422 BR Fact. Weathered
Was £169.96 **NOW £110.47**



R3399 Hornby Class 67
OO Gauge EWS Freight Train Pack -
Limited Edition
Was £241.99 **NOW £131.90**



31-190 Bachmann 5XP
OO LMS 5XP Jubilee 45575 'Madras' BR
(Ex-LMS) (British Railways)
Was £169.96 **NOW £107.22**



32-753DS Bachmann
OO Gauge Class 57/0 57007 'Freightliner
Bond' Freightliner Green - Sound Fitted
Was £269.95 **NOW £175.46**



31-380 Bachmann 2EPB
OO Gauge 2EPB 2 Car EMU 6262 BR
Blue & Grey Network SouthEast
Was £209.95 **NOW £125.98**

www.themodelcentre.com t. 01947 899125
Hill Farm, Beck Hole, Whitby, YO22 5LF

Illustrated Catalogues Including Post
OO, OO9 (1/76th) Full Colour £6.50
N (1/148th) Full Colour £5.50
O (1/43rd) Full Colour £4.50

Mail Order By Return P+P £4,
over £40 Post Free. Unpainted metal
kits-glue with epoxy glue (£7)

LANGLEY MODELS

166 Three Bridges Road, Crawley, Sussex, RH10 1LE
Tel 01293 516329 www.langleymodels.co.uk

OO SCALE

Fire Escape £12.70,
Singlehead Traffic Light
£3.50, Marching Soldiers
£7.95, Seat Figures £5.70
loads of other kits in
our illustrated colour
catalogue website
www.langleymodels.co.uk

4 Lineside Men digging, bolt greaser bolt tightener pair	£4.80
4 Lineside men set 2 3 track straighteners + pickaxe	£4.80
4 Seated lying down drunks	£4.80
4 drunks/wino's dancing, pukeing, peeing & sleeping	£4.80
6 1950's Station figs guards fat controller porter etc	£6.30
6 ass Gravediggers. Pick, shovel and lamp holders	£6.30
Canadian Canoe and 2 paddling figs	£6.85
Canadian Canoe padding and resting figure	£6.85
3 Deep-sea Divers, 2 helpers, compressor	£6.75
3 x Kids/ R.C. Toys, 1 adult launching plane	£6.30
6 kids, 4 with skateboards, 2 rollerskates	£6.30
1 x Windsurfer and figure	£5.15
3 Surfers, 2 surfing one waxing board	£6.30
4 Hunting figs & 2 'gun dogs' with pheasant	£6.30
6 Assorted People with Umbrellas	£6.35
8 Assorted Ambulance/Paramedics	£7.55
2 Assorted Mobility Scooters and Figs	£6.60
Council/Municipal Figure and rubbish cart	£5.05
Cider/Fruit Press Figure and demijohns	£6.30
C.C.T.V. Cameras (3 wall and 1 post mounted)	£5.25
5 Policemen in various positions	£5.45
Assorted Agricultural Tools & Equipment	£4.55
Ass Industrial Tools & Equipment	£4.55
Platform Machines (tickets chocolate weighing scales)	£6.30
Ind Machine. Mill & Pillar Drill	£6.85
Ind Machine Lathe & vertical sander	£6.85
Ind Machine Fly Press & Pillar Tool	£5.90

Painted Funeral Scene	£13.00
Painted 6 Assorted Dogs	£8.90
Painted Newspaper vendor and paper box	£6.70
Painted 2 Freisan Cows (patched brown/white)	£7.80
Painted 2 x Highland Cattle	£8.30
Painted White Wedding scene (8 figs)	£22.80
Painted 6 x Working Action figures set1	£15.15
Painted 6 x working figures set 2	£15.15
Painted Wharfside Figures	£15.15
Painted 2 Wooden Barrels Weathered	£5.35
Painted Lifebelts and Stands	£9.60
Painted Mangle, tin bath and bucket	£6.90
Painted Sundial, bird bath and flower pots/urns	£9.60
Painted Water Butt and 4 Flower Tubs	£10.25
Painted Private Siding Gate	£11.90
Painted Small 5 Bar Gate	£7.75
Painted Guards Band (10 Figs)	£30.20
Painted 10 Chimney Pots (terracotta)	£4.75
Painted 6 Kings and Queens Pots	£9.50
Painted 12 Round Chimney Pots (weathered)	£9.50
Painted Milkman & Milk Crates	£11.10
Painted Loco Driver & Fireman	£6.00
Painted 6 Seated Engine Crew	£15.15
Painted Loco Crew 2 x Diesel Drivers	£6.00
Painted Waterfowl-swans and ducks etc	£11.65
Painted Pigs / piglets and feeding troughs	£9.60
Painted 5 Assorted Firemen Action Figures	£13.00

LNWR/LMS Signal box & interior	£28.35	Bristol 'Royal Blue' coach 1940's	£14.30
Pavillion (cricket, football, café, scouts etc)	£19.95	Newcastle/London Q1 trolley bus 52-59	£18.80
Conservatory, chairs & tables	£11.00	Leyland Tiger TS7 coach 1935	£14.30
Greenhouses & garden sheds	£11.00	Leyland Hippo lorry 1947	£9.30
War Memorial	£3.90	Parcel van - 1 horse	£6.65
Cliff Railway Incl coaches & motorizing	£127.40	Delivery trolley - 2 horse	£6.95
Surburban Station building	£19.30	Hansom Cab	£4.90
Stained glass windows - small	£5.60	Gypsy caravan, horse & figures	£11.15
Drain & Manhole Covers (brass)	£4.10	Morris Commercial Van 1 ton 1950's	£6.40
10 Oil Drums	£3.85	Shand Mason horse drawn fire engine	£11.15
2 rowing boats & fisherman	£5.50	Leyland Beaver flatbed lorry 1949-70's	£9.20
Country Garage (incl folding doors)	£19.95	Leyland Beaver 3 way Tipper 1949-70's	£9.40
3 Harnessed Horses	£4.35	Coal cart - horse drawn	£6.65
2 Unharnessed horses	£3.10	Brewery Dray - horse drawn	£6.85
Loco Crew Driver & Fireman	£1.95	Railway Delivery lorry 5 ton 2 horse	£6.85
Waterfowl-4 Swans & 4 Ducks	£3.65	Ruston Bucyrus19RB face shovel '37-55	£17.45
Washing Line & Figure	£3.85	19-RB dragline/clam bucket/demo '37-55	£25.90
6 Assorted Cows	£5.20	AEC Mercury Tractor & low loader 50's	£10.50
Wild Animals-foxes, rabbits, badger, squirrel	£3.65	AEC Mercury tractor/flatbed trailer 50's	£9.20
8 Seagulls- 5 flying, 3 standing	£3.65	AEC Mercury 3 way Tipper 1950's	£9.40
6 Assorted Dogs	£3.40	AEC Marshall/Mammoth Major flatbed	£9.40
Hunt Scene-4 horses & riders 8 hounds	£7.50	Leyland Beaver & low loader 1947	£10.50
Working Men 1 on Ladder & 1 on trestle	£4.95	22-RB Face Shovel Crane 55 onwards	£17.55
8 Pigs	£3.65	22-RB Dragline/Demolition Crane '55 on	£25.90
8 Sheep	£3.65	22-RB Lattice Crane & Fly Jib '55 on	£27.35
10 Chickens	£3.65	225hp Bulldozer Circ 1960's	£13.90
2 Shire Horses	£3.10	Preistman Hydraulic Excavator	£17.45

YouChoos
DCC Sound
immersive Drive

YouChoos LifeLink
just got even smaller!

Stay-Alive connection circuit

still only £7

10 x 7 x 2.3mm

Use YouChoos' LifeLink to connect any 15-16v capacitor via this circuit to add stay-alive to any decoder that provides common positive (normally BLUE wire) and a GROUND connection (normally a solder pad)

Tantalums

Electrolytics

SuperCaps

LifeLink packages with 16V Tantalums and SuperCaps available

01380 530530
www.YouChoos.co.uk info@youchoos.co.uk

DMG | electtech
DMG Technical limited

New! DCC Decoder Tester
Only £28.99
see website for details

DMG | electtech
DMG Technical limited

Cable single and Bi color

Multicore

Diodes

Pushbuttons

Nylon fixings

Resistors

LED's

Crimp's

LAYOUT WIRING

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

Multistrand wire

10m 100m

EW07/0.2 1.4amp 7 strands of 0.2mm wire £1.60 £11.40

EW16/0.2 3 amp 16 strands of 0.2mm wire £2.30 £17.99

EW24/0.2 5 amp 24 strands of 0.2mm wire £3.29 £26.25

EW32/0.2 7 amp 32 strands of 0.2mm wire £4.29 £36.00

Christmas Mega Deals on the website from November 1st

New! DMU and EMU internal Lighting sets

Coming Soon: Internal building lighting sets

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 £1.15

SMT4 on/off or on/on £1.30 £1.17

SMT5 on-off-on DPDT £1.40 £1.30

SMT6 [on]-off-[on] SPDT £1.60 £1.45

SMT7 [on]-off-[on] DPDT £1.90 £1.70

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

DMG Technical Ltd - Tel: 029 20813136

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

Email: sales@dmgelectech.co.uk

Fast Efficient Service

P & P only 3.25

Free for orders over £100

VISA

MasterCard

PayPal

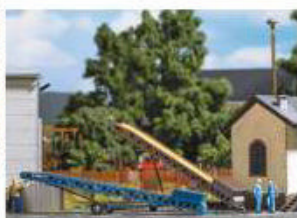
Maestro



GOLDEN VALLEY HOBBIES



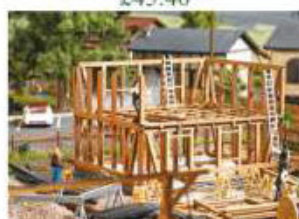
Auhagen 11460
Small Vehicle Workshop
£45.40



Busch 1374
2 Conveyor Belts
£13.63



Auhagen 41660
Heavy-Duty Shelving & Pallets
£13.60



Busch 1371
House Under Construction
£29.54



Busch 1664
Dilapidated Goods Shed
£54.54



Auhagen 41667
Pallets
£13.20



Busch 1647
Double Garage
£22.72



Auhagen 42658
Tree Grilles
£6.90



Busch 1379
Tree trunks & wood piles
£8.17

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.



Model Railways
www.dreamsteam.co.uk

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!**

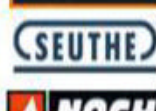
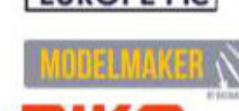
Call us on 0800 022 4473

Or email us at sales@dream-steam.com

We Stock 16mm OO OO-9 N Gauge

You can visit our showroom or order online and over the phone

These are just an example of brands we stock



ROKET

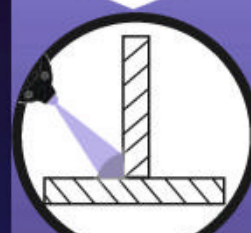
UV

1-3s

APPLY



LIGHT



SET



UV cured adhesive Sets 1-3 seconds

Ideal for bonding: glass, clear plastics, metal etc.

Ultra violet light activated adhesive for tasks that require careful positioning and a strong cure on demand.

Perfect for: **TRAIN & SIGNAL LIGHTS - WINDOWS - EYES - GLOSS COATINGS**

- Crystal clear bonds
- Non-blooming
- Fast solid cure in 1-3 seconds
- Odourless in use
- Ideal for tacking parts
- Rapid tack free smooth surfaces
- Can be painted
- May be used as a coating



Photos courtesy of George Dent

Supplied in two sizes, ROKET UV 5g AD 88 has its own UV torch and AD 89 a 20g is a top up bottle of adhesive only



Distributed to all good model shops by Gaugemaster Controls Ltd. Tel: 01903 884488
www.gaugemaster.com

Exclusively In Hong Kong by www.luckymodel.com Tel: (852) 2304 7201

Horizon Hobby consumers: www.towerhobbies.com Call 800-637-6050/217-3983636
Retailers call: 1-800-338-4639 or connect to fastserve at: www.horizonhobby.com

Australia by Hobbies Australia www.hobbiesaustralia.com.au

If you can't find DELUXE MATERIALS products in your local shop we are just one click away

www.deluxematerials.com

MADE IN UK

Plastruct Plastruct Plastruct



Please ask your model shop for genuine Plastruct fineline Styrene structural shapes.

Range contains over 70 shapes including: Angles, I-Beams, Channels, Columns, Deep Channels, Tees and Z Sections, Round, Rectangular and Square Tubing, Plastic Strips and Sheeting, Scale Ladders, Stairs and Railings, Open Web Trusses.

Essential for all scratch model makers.

www.plastruct.co.uk

EILEEN'S EMPORIUM

Mail order: Unit 19.12 Highnam Business Centre
Newent Road, Gloucester, GL2 8DN, ENGLAND
Visitors welcome by appointment only
Tel: 01531 828009
sales@eileensemporium.com
www.eileensemporium.com

The home of: Avonside Works Chassis² Jigs
For Making Precision Chassis in 4mm and 7mm
Hold and Fold - 2", 5.5", 8" and 14", Folding Tools
Bill Bedford Components - Sprung W Irons, Coupling Rods and Tools
Eileen's Branded Drills, Wire, Solder, Squares, Spanners
And So Much More
Visit our webshop www.eileensemporium.com



THE HOBBY SHOP
Est. 1988
www.hobb-e-mail.com 01795 531666 info@hobb-e-mail.com
85 Preston Street, Faversham, Kent, ME13 8NU



DCC by Modellers for Modellers

Stockists of

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

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



Coastal DCC

+44 (0) 1473 710946

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



FOR MODELLERS WHO REQUIRE QUALITY, ACCURACY, PERFORMANCE & DURABILITY

*The new name in brass
O gauge RTR locomotives,
built to the highest standards*

Fully finished by SAM Models in Korea after extensive UK research, design and development.

www.55H.co.uk

www.finescalebrass.co.uk

55H Unit 3 Fulford Business Centre,
35 Hospital Fields Road, York YO10 4DZ
Tel: 01132 761759 / John@55h.co.uk

SPECIAL OFFER

FREE whilst stocks last - a fully finished Terrier or J50 with any purchase of Britannia & Duke of Gloucester models.
See website for details

LAST FEW 9F MODELS!
Call for availability!

55H is a TRADING NAME of **FINESCALEBRASS**

LIMITED STOCK!!



7MT "Britannia" class choice of names & tender. Fully factory finished and tested ready to run on delivery.
£2750.00 DC £3150.00 DCC & sound £3350.00 DCC, sound & sync smoke

LIMITED STOCK!!

8P "Duke of Gloucester" choice of era's. Fully factory finished and tested ready to run on delivery.

**£2800.00 DC
£3200.00 DCC & sound
£3450.00 DCC, sound & sync smoke**



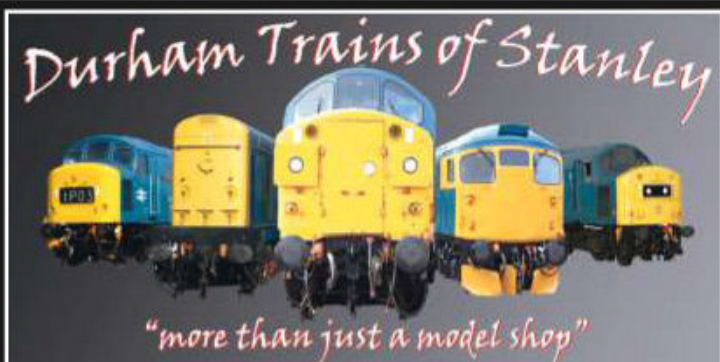
NUMBERS ARE LIMITED - Call now to reserve the number/version required

NEW MODELS IN PRODUCTION AVAILABLE LATE 2021

BR Standard 5MT (incl Caprotti version)
BR Standard 4MT 2-6-0 & 4-6-0

PRE-ORDER PRICES:

**£2750.00 DC
£3150.00 DCC & sound
£3350.00 DCC, sound & sync smoke**



6 Station Road, Stanley, County Durham DH9 0JL
Tel: 01207 232545
email: durhamtrainsofstanley@gmail.com
 Opening times: 9.30 - 5.00 Mon, Tues, Fri & Sat, 11-7 Thurs, Closed Wed.
DCC Fitting
www.durhamtrainsofstanley.co.uk

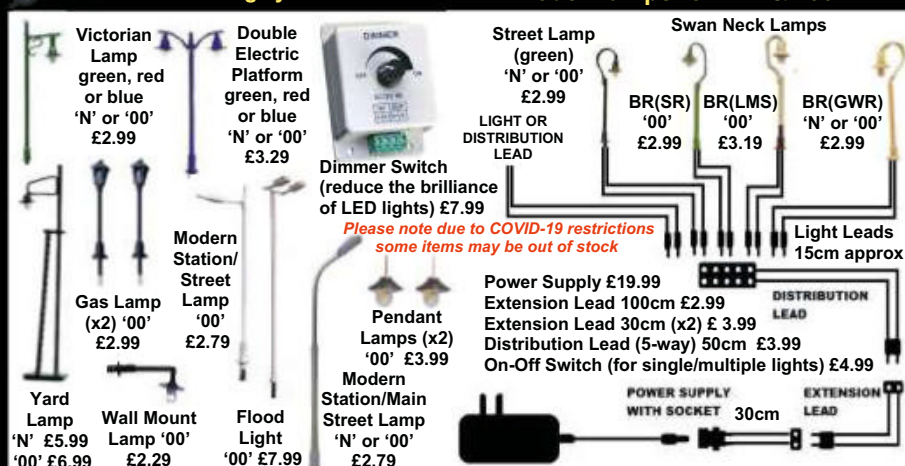
MODELIT

MODELIT Ltd, 5 HENACRE WOOD COURT,
 QUEENSBURY, BRADFORD, BD13 2LJ
 Tele: 01274 817344 (mail order only - no callers)
 Postage up to £30.00 value £3.50, over £30.00 £4.99

www.modelitltd.co.uk

Model Lamps for "N" & "00"

"PLUG-IT" no soldering connecting system



HOWES MODELS LTD

UNIT 16B, STATION FIELD INDUSTRIAL ESTATE,
 ROWLES WAY, KIDLINGTON, OXFORD OX5 1JD
01865 848000, Open 08:00-16:00 Mon-Fri; Sat 09:00 to 16:00

75+!
 1939-2019

HOWES THIS FOR SOUND!

**PROBABLY THE BEST AVAILABLE
 AND NOW THE BEST FOR LESS
 NEW LOW PRICE £109.99!**

Hundreds of hours have been invested by our experts to ensure you receive what we believe to be the best UK sounds available. We can supply ESU Loksound decoders with our sound files and can also re-blow your ESU LOKSOUND decoders if you are unhappy with the sounds on them – our 're-blow' service is only £12.00 plus return courier charge.

These are the latest LOK SOUND 5 decoders!

BR diesels, electrics, multiple units & steam – huge choice – just visit us on-line to see our full selection!

Sound decoder with speaker - £109.99 for ESU/Howes V5.0 plus £6.50 delivery (UK).

Please remember that we offer a decoder fitting service, please phone for more details.

All our sounds can be offered for 'O' gauge models but may require a different decoder, depending on current draw - please phone for details.

ESU/Howes **XL** decoders for all **Heljan 'O' diesels;** are available at £219.99 inc speaker.

www.howesmodels.co.uk



Sig-naTrak®
 Model railway electronics by GFB Designs

Our popular DCC controller!



- ★ Up to 9999 train and 2044 accessory addresses
- ★ Trains and accessories can be named
- ★ Easy to use - elegant, clearly-labelled touch keys - clear, colour graphical display
- ★ Drive from the touch panel, or optional handsets
- ★ Generous 5A output!
- ★ Integrated USB interface!

£262.00

The ACE-2 (DCS2044-2H)

NMRA-compliant DCC controller with full decoder programming and reading. Compact: only 220x150x45mm! Computer control, XpressNet & LocoNet(R) planned for 2020 - user upgradable!

July 2020 - UPDATE

Product development is in progress and we hope to have updated ACE software available by Autumn 2020.

Order delivery may take up to 3 weeks, but we can delivery in-stock items within 5 to 7 days.

A prototype for our new DAC22 Accessory Decoder will be undergoing tests this month!

The DRIVER (BHS1204) ACE Handset.



£30.00

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)

- DAC20 Accessory Decoder - 8 outputs, built-in CDU. **£65.00**
- SIGM20 Colour-light Signal Controller - 6 or 8 outputs. **£54.00**
- DTM30 Digital Tower Master - 30 inputs & outputs. **£63.00**
- DSS1 Loco Shuttle - automatic train running sequences. (TXC1 - Product discontinued.) **£60.00**
- MSC8 Scenery Animator - control lights, motors & servos. **£30.00**

67 Boddens Hill Road, Stockport, SK4 2DG

Tel: 0161 883 2022

(Sorry - no callers.)

Email: info@signatrak.co.uk; Web: www.signatrak.co.uk

Fully tested and guaranteed for 5 years

MORLEY CONTROLLERS

Experience the ultimate in controller technology!

60 Years
BTVR
 ESTABLISHED 1959

VANGUARD ZERO ONE

- 2 x 5mtr hand held controllers
- 1 x 12V DC accessory
- O gauge
- Twin track
- 2.5 A per track

£133

PLUS £6.90 P&P



VESTA ZERO TWO

- 2 x 2.5mtr hand held controllers
- 1 x 12V DC accessory
- N gauge
- Twin track

£75

PLUS £4.80 P&P



VECTOR ZERO THREE

- 2 x 2.5mtr hand held controllers
- 1 x 12V DC accessory
- OO/HO/N/OO9 gauge (1 amp per track)
- Twin track

£75

PLUS £4.80 P&P



VORTRAK ZERO TEN

- 2 x 5mtr hand held controllers
- OO/HO/N/OO9 gauge (1 amp per track)
- 2 x 12V DC accessories
- Four track

£149.90

FREE P&P



VECTOR ZERO THREE 'CRAWLER'

- Perfect companion for all the small shunter type locomotives being manufactured
- Slowest speeds ever plus all the benefits of the Vector Zero Three.

£80.20

PLUS £4.80 P&P



Each controller has state-of-the-art design, offering very best performance capability. Slow and fast speeds are superb. Internal separate transformers for each track from 220/240 AC mains.

CDU FOR POINT MOTORS ON-BOARD

Our controllers do not have any type of feedback and not PWM therefore fully suitable for all coreless motors.

www.morleycontrollers.com (Secure order site)

Email: jet@morleycontrollers.com • Tel: 01704 533 116

(Overseas enquiries +44 1704 533 116)



PO Box 501, Southport, PR9 9ZL

Also at PO Box 1230, Wangara BC, Perth, Western Australia 6947

Tel: 0421 359 487. <http://aus.morleycontrollers.com>



Made in the UK

CM3MODELS

WE STOCK:

- LaisDCC chips
- DCC wire and switches
- Card for Scalersceners kits
- Scenic accessories
- Model Scene grass mats
- Albion Alloys section and tools

CM3Models.co.uk

KX057-00 Barn / Store

Stone & Red Brick Finishes Included

LASER CUT OO SCALE KIT

Build as a pristine or derelict model

Only £7.49 + P&P

scalemodelscenery.co.uk

Order online or call 01530 456952

Santa Fay knows where she will be doing her Christmas shopping

C&M Models

1 CROSBY STREET, CARLISLE CA1 1DQ Tel: 01228 514689
 Web: <https://candmmodels.co.uk> E-mail: sales@candmmodels.co.uk
 Opening hours: Tuesday to Saturday, 10.00 to 16.30
 Please note that the Santa hat and young lady are not currently available from us.

C & L FINESCALE

TRACK BUILDING SYSTEMS

C & L FINESCALE ARE SUPPLIERS OF THE WELL PROVEN 4 & 7 MM EASY BUILD POINT KITS AND RANGE OF SCALE FLEXI-TRACKS. NEW PRODUCTS ARE ADDED TO THE WEBSITE AS THEY BECOME AVAILABLE.

All new 4 mm 2 & 3 bolt chair sprue and fish plates

Office hours 10.00 to 14.00 Mon, Tues, Thurs, Friday. 14.00 to 19.00 Weds.
 C & L Finescale Track Building Systems Ltd, 125 Beaver House, 12 East Street, Epsom KT17 1BX
 Telephone 01372 748490 | www.clfinescale.co.uk

FRIZINGHALL

MODELS & RAILWAYS

OUR MODEL SHOP CARRIES A HUGE RANGE OF LOCOMOTIVES AND ROLLING STOCK IN ALL GAUGES

**SCENICS
KITS
TOOLS
PAINTS
DIECAST MODELS
PRE-OWNED MODELS
SPECIAL OFFERS**

OUR SERVICES

- DCC Sound Fitting
- DCC Decoder Fitting
- Servicing/Repairs

We buy second-hand model railway items. Speak to our friendly & experienced staff for more information. 'Cash or Exchange'

FREE POSTAGE over £175 (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

A C Models

Tel: 02380 610100 www.acmodelseastleigh.co.uk

Your one stop shop for the model enthusiast, selling brand new and near-new model trains, slotcars, sets, and diecast toys at very special prices direct from our website or new shop in Eastleigh.

Stockists of

SCALEXTRIC **HORNBY** **LILIPUT**

SPRUE **PECO** **AIRFIX** **BACHMANN** **BRANCH-LINE**

and much more!

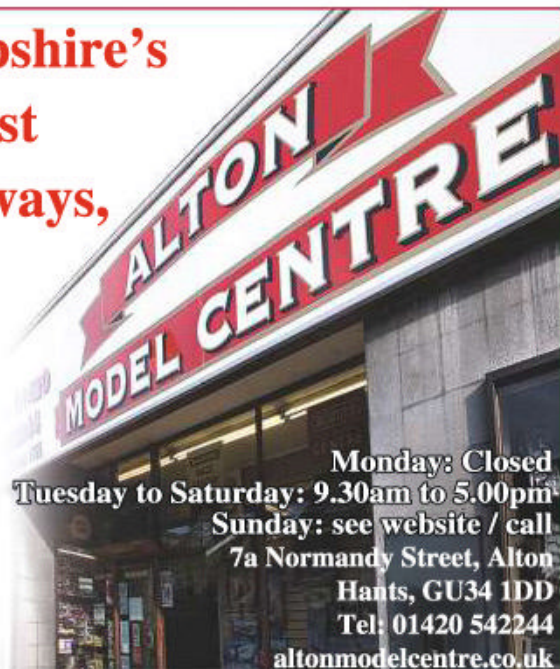
GIFT VOUCHERS AVAILABLE

VISA PayPal MasterCard

Models moved to No9
Open 5 days a week 9am-5pm
SEE WEBSITE FOR OPENING TIMES

9 High Street, Eastleigh, Hants. SO50 5LB
email: info@acmodelseastleigh.co.uk

**Possibly Hampshire's
Largest Stockist
of Model Railways,
Die-Cast,
Books,
Magazines,
Scalextric
and much
more.**



Monday: Closed
Tuesday to Saturday: 9.30am to 5.00pm
Sunday: see website / call
7a Normandy Street, Alton
Hants, GU34 1DD
Tel: 01420 542244
altonmodelcentre.co.uk

Full range of model railway products from the leading manufacturers including:

Hornby, Bachmann, Dapol, EFE Rail, Graham Farish, Heljan, Oxford Rail, Peco, 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 Vallejo Model Colour AK pigments and washes, MIG Primer, Varnish & Weathering Products

accurascale
OFFICIAL STOCKIST

Wide selection of books & magazines.

OSBORNS MODELS
7 Honestone St, Bideford, N. Devon, EX39 2DL ☎ 01237 423453

AVAILABLE TO PRE-ORDER

WESTERN ENTERPRISE

WWW.OSBORNSMODELS.COM

TONYS TRAINS
AT BARBY MODEL RAIL

New and Used Model Railways. Hornby, Bachmann, Heljan, Dapol, PECO, Oxford, Gaugemaster and more....
Large selection of 2nd hand models. Mail order available, pre-orders welcomed.

Open: Tuesday to Saturday 10AM - 5PM (4PM on Saturdays)
Tel: 01788 543442 email: tonystains@outlook.com web: www.tonystainsofrugby.com
Studio 3, The Locks, Hillmorton, Rugby, CV21 4PP

WE BUY YOUR MODEL TRAINS
GOOD PRICES PAID, PLEASE CALL TO ARRANGE A VALUATION

MegaPoints Controllers

Awesome layout control system

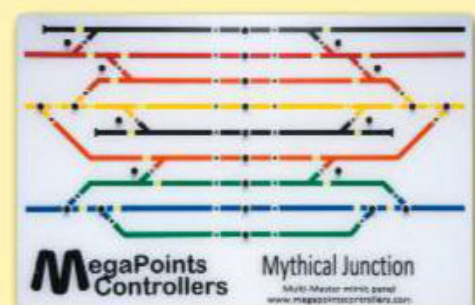
Control your model railway from one or more tactile control panels

- 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.

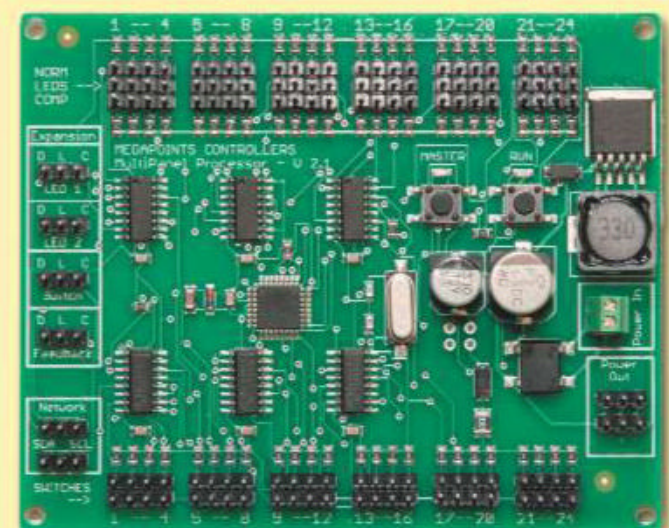
See website videos and product pages for more information.
Our single MultiPanel control board does it all! →

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.



Your bespoke mimic panel



Size 8cm x 10cm

1. Plug in LED cables
2. Plug in switch cables
3. Connect to control boards
4. Press buttons, start using!



Web & details: megapointscontrollers.com

Rev 17-03

EASY Sound, Lighting & Control !

Automatic Coach Lights
Cool & warm white N, 009, 00



Battery power - fit in seconds

Clip-in Buffer Lights
For N, 00/H0 & 0 Gauge



NEW - 0 Gauge version!

Animated Smart Screen
With automated destinations



Point, Sensor or loco controlled

NEW Relay Controller
Sensor Signal Auto train control
and control devices using DCC



Colour Light Signals
• DC • DCC Fitted • Automatic



Post • Head • Ground mount

Signal & Point Controllers
One-touch DCC setup in seconds



NEW - Dapol Servo version!

Track Testers
N, TT, 00/H0, 0 & G Scales!



NEW - Large Gauge version

NEW Servo Controller
Track Sensors or DCC control



Power from 9-16V DC or DCC

Real Sound in your train
For both DC & DCC - no wiring



Steam or Diesel versions £45



Train-Tech
Model Technology Made Easy

Ask for our **FREE**
2020 Brochure!

DCP Express
Bryon Court
Bow Street
Great Ellingham
NR17 1JB

01953 457800 / www.Train-Tech.com

sales@dcpmicro.com

£4 UK P&P - this month quote MR279 for £2 off postage!



TOWNSTREET

MODEL ARCHITECTURE AT ITS FINEST

NEW "00" GWR COALING STAGE £67.50

From the stonecast range that brings realism to your layout.
A selection of our kits include:
Citadel Station.....£97.50
North Light Engine Shed.....£69.50
LNWR 'Coal Hole'.....£55.00
Large Signal Box.....£52.00
Concrete Ash Plant.....£69.50
Concrete Coaling Plant.....£69.50
Louvre Roof Engine Shed.....£69.50
Stone Stations.....from £49.50
Brick Station.....from £39.50
Brick/Stone Water Tower.....£22.50
Brick/Stone Goods Shed.....£49.50
Brick/Stone Engine Shed.....from £43.50
Brick/Stone Signal Box.....from £39.50
Sand House.....£36.50

PLEASE ADD £4.60 P&P

60 page "00" catalogue. Full of buildings, bridges, platforms and ideas for your layout £3.80 post free.

TOWNSTREET
6 KIRKILL, BLENCARN,
Nr. PENRITH, CUMBRIA CA10 1TZ
MAIL ORDER ONLY PLEASE
MON TO FRI 2-8pm
Tel: 01768 88456



See our new website which details all of our products
www.townstreetuk.co.uk

INSURE YOUR COLLECTION REPLACEMENT VALUE

Covers your collection including layout and track whilst anywhere in the United Kingdom.

Cost of labour in rebuilding the layout or track following loss or damage by an insured peril included.

Public and Products Liability, Trade Stock, Exhibition Cover

Separate insurance available for all other types of collections
Premiums from £45.00 plus IPT

STAMP INSURANCE SERVICES

CGI Services Limited

29 Bowhay Lane, EXETER EX4 1PE

www.stampinsurance.co.uk tel: 01392 433 949

Authorised & Regulated by the Financial Conduct Authority 300573

WANTED

MODEL RAILWAY & COLLECTABLES

Top Prices Paid

*For all makes, all gauges and live steam,
aeroplane kits, boats, die cast etc.*

Instant cash paid

Will travel to collect

**MODEL
RAILWAYS
ONLINE**

01775 630385 / 07723 336344

email: usedmodelrailway@gmail.com

Woodgate Cottage, New Road, Deeping St Nicholas, Spalding, Lincolnshire PE11 3DU

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

Price lists available in 0, 00 or N scale if you don't have internet access.

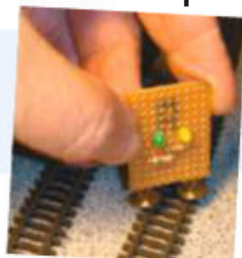
York Modelmaking 01904 400358
Unit 13, Bull Centre, Stockton-on-the-Forest, York, YO32 9LE



Learn about electronics with our model railway beginner kits at affordable prices

Simple Kit PMP1 Track tester
for DC and DCC power
£0.29

Available only for members



www.merg.org.uk

Please send email to: enquiries@merg.org.uk for more information

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!



NEW & USED MODEL RAILWAYS

Specialists in Model Trains since 1994 - Servicing, Repairs & DCC Decoder Fitting
21 Brighthouse Business Village, Riverside Park, Middlesbrough, Cleveland TS2 1RT



Tel: 01642 909794

Open Mon-Sat 10am-5pm

Web: www.petersspares.com

Email: sales@petersspares.com



GAUGEMASTER

CRANE

GARDEN BUILDINGS



THE PERFECT LOCATION FOR A MODEL RAILWAY

Our buildings are strong and robust, built with the highest quality timber, and can be tailored to suit your needs.

By tailoring the building design to your exact requirements, we can give you a building of the perfect size, with each feature precisely where you want it. Our sheds and workshops can also be fully lined and insulated, with electrics, allowing for year-round use. To find out more, please visit cranegardenbuildings.co.uk.



SHOW SITES
ACROSS THE
COUNTRY

HANDMADE
BY SKILLED
CRAFTSMEN

**FREE
DELIVERY
& installation
nationwide**

Sheds | Workshops | Summerhouses | Garages | Studios | Telephone 01760 444229

Visit → Scalescenes.com
 Download → Print → Build

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

Card kits that pass closer inspection

00 scale

scale-scenes.com

CELEBRATE & REMEMBER
 With Fox Transfers Fine-Etched, Hand-Finished Headboards in 2mm/N, 4mm/00 and 7mm/0

• OTHER DESIGNS ALSO AVAILABLE •

VICTORY IN EUROPE 1945-2020

FOX TRANSFERS LTD • TEL +44 (0)116 319 4950
 Unit 5, Priory Business Park, Wistow Road, Dept MR
 Kibworth, Leicestershire LE8 0RX, ENGLAND callers by appointment
 email: mail@fox-transfers.co.uk web: www.fox-transfers.co.uk

Profits from sales will be donated to The Royal British Legion (Charity no 219279).

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
 HORNBLY, PECO, DAPOL, HELIAN
 PLUS MANY OTHER RANGES OF SCENIC MATERIALS, BUILDINGS, VEHICLES etc

BICYC-LED
 OO/HO & N Cycles & M/cycles with working lights!!
 See our webshop for details
 Easy Free parking!!
 Open Mon, Wed, Fri, Sat 9.30 to 2.00

CONTINENTAL RAILWAYS
 FLEISCHMANN, Roco, BRAWA, TRIX, herpo, FALLER, Preiser
 PLUS MANY OTHER RANGES OF SCENIC MATERIALS, BUILDINGS, VEHICLES etc

Map showing location: MORRIS MODELS, A27, BRIGHTON, WORTHING, LANCING STN, A258, BEACH GREEN, STOUTLEY CHURCH.

RON LINES

Large stocks of pre-owned railways a selection of which is on our website.

We stock new Hornby, Bachmann, Graham Farish, PECO, Expo tools, Electrical components & much more.

We also purchase your unwanted railways, whether it's a single item or collection, anything considered.

Whether you're a novice or an expert we are always happy to help!
 So why not visit us today or give us a ring!

Tel: 02380 772 681 **www.ronlines.com**
342 Shirley Road. Southampton. SO15 3HJ
Open Mon-Fri 10am-5pm & Sat 9am-4pm

- WANTED -
MODEL RAILWAY
AND COLLECTABLES

Small or large collections in any scale.
 Almost anything will be considered
 Top cash prices paid

WE WANT YOUR Model Railways

ANORAKS ANONYMOUS

01302 371623
07526768178
anoraksanonymous@googlemail.com

N SCENIC
 www.n-scenic.co.uk
 Laser Cut Models In OO and N Gauge

N Gauge SKIPS X 6 From £4.99
N TERRACED HOUSES From £4.99

N Gauge Grand Station Terminus or Run Through
Gasometer Kit in N or OO From £14.99
Mine Head Gear Kit From £19.99

Visit our Site for more fantastic Models
 Enter the code: **RM15** to get
15% OFF

Fencing - Bridges - Buildings - Grave Stones - Gates - Cable Trunking - Tunnels - Walk Ways - Retaining Walls
PLUS MANY MANY MORE

www.n-scenic.co.uk
 N-SCENIC Ltd 248 Lytham Road, Blackpool, FY16EX 01253-348-853

www.harburns.uk

P&P £3.00 per order

Harburn Hobbies, 67 Elm Row, Edinburgh EH7 4AQ
Tel. 0131 556 3233 Email: sales@harburns.uk

See these and other Harburn exclusives on our website



Oxford '00'
Edinburgh Bus £21.95



Bachmann '00'
"McEwan's" £24.95



PECO 'N'
"McEwan's" £12.25

Our webshop is forever growing
larger!

Exclusive to Harburns

Harburn '0' gauge Specials

dapol

Cottage roof grain wagons 'L.G.W.'

(formerly Leith General Warehouse)

BR era vans which ran through into the 1970s

3 numbers produced

105 - 124 - 168

(very limited stocks)

£59.99 each

Go on... Take a look!
www.harburns.uk



Trains4U.com 27 St. David's Square, Fengate, Peterborough, PE1 5QA
Please see our website for updated opening days & times

Trains4U Exclusive
MOD KFA / PFB WARFLAT – OO Gauge

£35.00 each

Features:

- Close coupling mechanism
- NEM coupling pockets
- Sprung buffers
- Detailed underframe
- Zinc alloy frame
- Convertible to P4/EM

Available to pre-order online now at Trains4U.com by phone, email, or in our Peterborough store
Delivery expected Winter 2020

PFB Green with green bufferbeams & jacks
Suitable for 1976 to mid 1990s

KFA, Green with yellow bufferbeams & jacks
Suitable for late 1990s to present day

Tel: 01733 895989 e-mail: Trains4U@BTConnect.com

Produced by **CAVALEX Models**

CAVFB(1) MODA 95233
CAVFB(2) MODA 95259
CAVFB(3) MODA 95274
CAVFB(4) MODA 95288
CAKFA(1) MODA 95238
CAKFA(2) MODA 95265
CAKFA(3) MODA 95281
CAKFA(4) MODA 95297

TigerTaz Models

We are based in the North East of England in Teesside and are avid collectors of model locos, rolling stock, cars, buses and trucks. We are also enthusiastic professional traders with the personal touch.

STILL TAKING ON SALE ORDERS

TIGERTAZ MODELS
57A GRAYS ROAD
GRANGEFIELD
STOCKTON ON TEES
CLEVELAND
TS18 4LL

www.tigertazmodels.co.uk
07788110566

VISA, AMERICAN EXPRESS, MASTERCARD, Facebook, Pinterest

REMOTE CONTROL FOR DOLLS HOUSE LIGHTING & ACCESSORIES



Operate your dolls house lights by remote control
Create fire and candle effects
8 Independent output channels, expandable to 24 channels
Operates from 12 Volts DC
Complete with sensor and handheld remote
Ideal for all types of models including model railway scenery
Full Instructions supplied and telephone backup
Now sold all over the world

£69.95 + £4.95 Carriage

IDEAL CHRISTMAS GIFT

We also supply a huge range of model railway and dollhouse accessories

Micro Miniatures

Unit 4 MB Site, Norwich Road, Norwich, Norfolk NR13 4EZ Tel 01493 753 283
www.microminiatures.co.uk Email sales@microminiatures.co.uk

Salisbury Model Centre

We are a dedicated model kit and railway store in the heart of Salisbury. Carrying good stocks of OO and N from the major brands as well as the unusual items too.

8 Brands of paint in store. Scenics for railways, wargamers and diorama builders.



BACK AFTER LOCKDOWN!
New times but full shelves. See FB for times.

01722 334 757 for telephone orders
37 Fisherton Street, Salisbury SP2 7SU.

Visit Salisbury, we are 5 min walk from Train Stn, 8 min from town centre bus stops. Great Cathedral and cafe's. See more at **www.salisburymodelcentre.co.uk**

MIKE PETT'S SUPERCASET OO MODEL RAILWAY FIGURES

NEW MODELS £1.99 each unpainted



VOTED WINNER OF MODEL RAIL 2017 NATIONAL AWARDS SCENIC ACCESSORY OF THE YEAR

HAND PAINTED MODELS 'OO' Gauge £4.99 each



Painted OO Gauge £4.99 each, Unpainted OO Gauge £1.99 each, Painted O Gauge £10.50 each, Unpainted O Gauge £8.50 each
MINIMUM ORDER 2 FIGURES. Post & Packaging: O Gauge figures £3.99 - OO Gauge figures £2.75 Trade Enquiries Welcome.
Please make cheques and PO's payable to: Mike Pett, 12 Chatham Street, Ramsgate, Kent, CT11 7PP
01843 593417 Mob: 07976 724225 Email: mikepettsupercast@gmail.com



**Life can be complicated.
But with mustard.co.uk,
buying car insurance doesn't have to be.**

Save time, money and effort with our Cheapest Price Guarantee*.

**Making life a little less complicated
mustard.co.uk or call 0330 022 7406**

*This offer is to beat your cheapest online like-for-like car, van or motorbike insurance quote. The guarantee only applies to annual policies and to the basic policy price only. This offer excludes telephone quotations and only applies to permanent residents in the UK, excluding the Channel Islands. We reserve the right to request proof of, and validate, alternate quotes as well as proof of the information you provided to obtain the quotes (e.g. copy of driving licence or utility bill) before our guarantee is honoured. mustard.co.uk is a trading name of the H Bauer Publishing Limited Partnership which for general insurance distribution is an Appointed Representative of Vast Visibility Limited, 8 Princes Parade, Liverpool, L3 1DL, which is authorised and regulated by the Financial Conduct Authority under Firm Reference Number 566973. You can check these details on the FCA Register.



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 "MRXP" for 5% Discount

EMAIL: dingoservo@gmail.com

MOB: 07754901324

CARD KITS FROM THE CARD MODELLING SPECIALISTS



Card kits & backscenes
Unsurpassed artist-drawn designs

Colour-printed on thin card (not die-cut), with lots of optional parts.



"The Manor"
Based on multiple F4 kits
with added detail parts
and Scene-Setters glazing

2mm kits: £1.50 ea.
4mm kits: £2.50 ea.

SAE for brochure (B&W)

- | | | | |
|----------------------------|--|---------------------------|------------------------------|
| A1* Semi-det. houses | B4 Platform accessories | D3 Large barn | F4* Stone hotel / inn |
| A2 Garage w. pumps | B5* Signal boxes | D4* Half timbered house | F5* Stone school / w. house |
| A3* Church ('OO' needs A4) | B6A Tunnel mouths, green granite ('OO' only) | D5 Library or shops | F6 Walls, fences, paving etc |
| A4 Public house | B6C Tunnel mouths, brown stone ('OO' only) | D6 Town house, shops etc | G1* Low relief row of shops |
| A5 School / village hall | B7 Viaduct & lock-ups | E1 Det. house or 2 semi's | G2 Brick houses / shop |
| A6 Walls, fences, etc. | C1 Coaling stage etc | E2 Bungalow & garage | G3 "Scats" Warehouse |
| B1 Country station | C2 Water & oil tanks ('N') | E3 Post-war flats | G4 Goods receiving depot |
| B2* Factory or dairy | | E4 Police stn / offices | * NB TEMP OUT-OF-PRINT: |
| B3* 2-road engine shed | | E5 Fire station | 'OO' A1, B2, E6, F1, F2, G1, |
| | | | 'N' A3, B3, B5, D4, F4, F5 |

**FREESTONE
MODEL
ACCESSORIES**

P&P (UK) £3.00 per order. Overseas at cost
Cheques to "Freestone Model Accessories"
Callers by appointment only please



Web: www.freestonemod.co.uk
e: sales@freestonemod.co.uk

GC WEATHERING

"It's the little things we do"

GC WEATHERING IS A LOCO WEATHERING COMPANY WITH OVER 25 YEARS EXPERIENCE IN AIRBRUSH ARTWORK.

We use oil paints, acrylic paints, resin, graphite and pigments to give you a completely unique finish



"As always the Western and the steel carrier are fantastic, I'm well pleased. So much so that I had the loco running at half past seven in the morning. Thank you. Well GC Weathering, what can I say except you're ahead of the field and others have a lot of catching up to do, many thanks once again"

Mr Turner (Kent)



"What a fantastic job you have done to my Black 5, not only have you weathered it as per my request, you renamed and renumbered it. It looks fantastic....I will be getting you to do some more weathering for me and I highly recommend you to anyone wanting any weathering done. Thank you for your fantastic work."

Regards Mr Brown, Yeoman Warder, Tower of London



www.gclocoweathering.co.uk

Tel: 01279 817433



MODEL RAIL Marketplace

CALL GEMMA ON 01733 366379
gemma.smith@bauermedia.co.uk

DCC



A RENOWNED SPECIALIST DCC CONVERSION SERVICE

- All scales and budgets • Friendly, reliable service
- Quick turn-around • Servicing and repairs • Weathering
- Resprays • Kit building service • ESU, Digikeijs & Lenz dealer

www.marks-trains.co.uk

01733 609 414 - info@marks-trains.co.uk

#MarksTrainsUK

[marks.trains.uk](https://www.facebook.com/marks.trains.uk) [marks.trains.uk](https://www.instagram.com/marks.trains.uk) [marks_trains_uk](https://www.twitter.com/marks_trains_uk)

Books & DVD's

NICK TOZER

RAILWAY BOOKS

RAILWAY BOOKS BOUGHT & SOLD

Free Railway Booksearch Service
155 Church Street, Paddock,
Huddersfield, HD1 4UJ

(Shop: Tue/Wed 11:00-17:00 + Thu 14:00-20:00)

www.railwaybook.com email: nick@railwaybook.com

Tel: 01484 518159

Railways
Buses

Aviation
Canals

Dereks Transport Books
All Transport Subjects Covered

www.derekstransportbooks.com

Over 8000 Books in Stock On-line
Based in the New Forest

Established 1995

Shipping
Commercial

Motoring
Vehicles

Models Wanted

Tri-angman

specialist in model railways

Tri-ang, Hornby, Wrenn,
Minic etc...

buy, sell and repair hard to
find items and collectables

Find me on

www.tri-angman.co.uk

or contact

Tel 07966 333605

laurence@tri-angman.co.uk

Online Shops

Tri-ang Collector

Dave ANGELL

07968 975867

Supplier & Collector of Vintage Trains

Primarily, but not exclusively, made by Triang.

www.daveangelltrains.co.uk

dave@daveangell.co.uk

07968 975867

roxeymouldings.co.uk

Loco, Coach & Wagon Kits

Fittings & Accessories

Wheels / Motors & Gears

in OO and O

Tel: 01932 245439



Kits

- 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

BRANCH LINES

Dapol Kit Package Deals



Each package deal contains the Dapol plastic kit, our etched n.silver chassis kit, our body detailing (or interior) kit, Mashima motor, Romford gears, wheels and all screws wire, etc. to complete.

Railbus p/deal with full interior £61.50
Drewry '04' diesel complete p/deal £78.50
BR mogul & tender complete p/deal £105.00
City of Truro complete p/deal £107.50
Most parts available separately

P.O BOX 4293, WESTBURY BA13 9AA
Tel/Fax: 01373 822231

E-mail: sales@branchlines.com

Cat's SSAE + £1 (in stamps) or £2.50 C. Card and
PLEASE STATE INTERESTS

P&P: UK £2.50 (value under £30), £4.00 (£30 to £60), £5.00 (over £60).
Non EU and BFPO less VAT. Exports £4.50 minimum.

VISA, MASTERCARD, SWITCH/MAESTRO, SOLO
EXPORTS WORLDWIDE

Hours: Mon-Thursday: 9.30-1, 2-6

MODEL RAILWAY DEVELOPMENTS

**NEW WEBSITE IS
ABOUT TO GO LIVE**

Thank you for your patience

www.emardee.org.uk

Email: hubertcarr@googlemail.co.uk

Or call: 01372 817504



Web Browser

RECREATION21

Various
Scales
Gauge 1, O, S
OO, HO, TT, N
009, 016, S
SM32, G

and more

ORDER ONLINE

www.rue-d-etropal.com

Online Shops

Model Scenery Supplies

**Internet Shopping for
all your Scenic Items**
Sit back and order from
your home
1000's of products to
browse

Free Delivery on orders over £30



Search... modelscenerysupplies.co.uk

Repairs

MOTOR REPAIRS

HORNBY, DUBLO, WRENN & TRIANG MOTORS

Repaired, rewound & remagnetised.

Also DCC chips installed and
old Triang wheels updated.

OO Locos serviced from £17.50 plus parts & post

SCALESPEED Est 1966

32 Goldfinch Lane, Lee on the Solent, Hants PO13 8LN

Tel 02392 554107 / 07774 253352

Web www.scalespeed.co.uk

Email scalespeed@btinternet.com



**Don't miss the next
issue of MODEL RAIL
on sale 29 October**

Dealer Directory

Bedfordshire

Order Online today
www.agrmodelrailwaystore.co.uk

AGR Model Railway Store Ltd

9 High Street Mews, 28 High Street,
Leighton Buzzard, Bedfordshire LU7 1EA
01525 854788

sales@agrmodelrailwaystore.co.uk

Monday - Friday 9am-5pm. Saturday 9am-4pm

NOW buying your unwanted model railway collections

Buckinghamshire

P & D MARSH MODELS

PAINTED OO GAUGE

PAINTED N GAUGE

PDZ07 Postman, bike & postbox	£8.75	PDX51 Cyclists (2)	£7.60
PDZ12 Trackside signs (4)	£8.25	PDX56 Gravestones (8)	£6.00
PDZ19 Loco crew (2) steam	£9.00	PDX68 Forklift truck	£7.00
PDZ28 Window cleaner/ladder	£7.15	PDX69 Traffic lights single	£5.50
PDZ32 Firebuckets on stand (2)	£7.50	PDX70 Traffic lights dble	£6.50
PDZ36 BP style petrol pumps	£8.75	PDX80 Benches (4)	£5.80
PDZ39 Coalmen & scales	£8.25	PDX82 Water crane platform	£6.25
PDZ40 1950/60 Firecrew/hoses	£10.45	PDX83 Water crane ground	£6.25
PDZ103 1950 motorbike/rider	£8.00	PDX351 GWR home signal	£8.35
PDZ50 Loaded platform trolley	£8.25	PDX354r RH junction signal	£15.95
PDZ51 Barrels (6)	£6.95	PDX361 Ground signals (5)	£8.00

AVAILABLE FROM ALL GOOD MODEL SHOPS

DISTRIBUTED BY EXPO TOOLS & DRILLS

WWW.PDMARSHMODELS.COM 07730 202270

Cleveland

REDCAR MODELS & HOBBIES

Most leading brands of
"OO" gauge model
railways & accessories.

Also Diecast, Plastic Kits,
Woodland Scenics,
K+S metal Centre etc

**130 High St, Redcar,
Cleveland, TS10 3DH.**

Tel: 01642 494912

(Open Tuesday to Saturday)

sales@redcarmodels.co.uk

Cheshire

No10, The Craft Arcade,
Dagfields Craft Centre,
Crewe Road, Walgherton,
Nantwich, Cheshire. CW5 7LG

www.tridenttrains.co.uk 01270 842400

HORNBY • BACHMANN • DCC CONCEPTS • FARISH • DAPOL • PECO • LENZ
TRAIN TECH • GAUGEMASTER • METCALFE • RATIO & MUCH MORE

Cumbria & Lake District

Jacksons Models and Railways

Hornby, Bachmann, Graham Farish, Peco,
Dapol, Gaugemaster, Javis, Plastics,
Metals, Balsa, Corgi, Oxford Diecasts etc.

www.jacksonsmodels.co.uk

33 New Street, Wighton, Cumbria CA7 9AL

Telephone 01697 342557

TRUCKS • CARS • PLANT • KITS • PLANTS • MILITARY • RAILWAYS • BUSES

Hampshire

CHURCH STREET MODELS

A wide range of New OO & N gauge
Incl. Hornby, Bachmann, Dapol,
Farish, Heljan, Oxford & much more

Mon, Wed - Sat 09.30-14.00

**10A Church Street, Basingstoke,
Hants RG21 7QE. 01256 358060**

www.churchstreetmodels.co.uk

Howard Scenic Supplies

See our range of hand made model scenery



www.howardscenicsupplies.co.uk

Cumbria & Lake District

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

North Yorkshire

MonkBar
Model Shop

2 Goodramgate
York - YO1 7LQ
01904 659423
info@monkbarmodelshop.co.uk

OO, O & N Gauge Model Railways

Stockists of Hornby, Bachmann, Graham Farish, Peco, Dapol, Gaugemaster, Ratio, Wills, Woodland Scenics, Metcalfe, Oxford Diecast, Base Toys and many more

monkbarmodelshop.co.uk

TO ADVERTISE PLEASE
CALL GEMMA ON
01733 366379

Staffordshire

TUTBURY MODELS

COLLECTABLES 01283 814777 MODELS
5 Mill Mews, Tutbury,
Nr. Burton-upon-Trent DE13 9LU.

Available Now:
Bass/Worthington vent van £13.50 + £3.00 P & P
(Can send up to 6)

Available Now:
6 Wheel Milk Tanker Nestle - OO Gauge
£17.50 + £2.00 P & P

Available SOON:
6 Wheel Milk Tanker Nestle - O Gauge
Orders invited for the O Gauge.

Essex

CHELMSFORD

JOHN DUTFIELD

Stockists of: **HORNBY**

• Peco • Bachmann • Lenz • Graham Farish • Wills • Ratio • Cavalex • Accurascale
and much more including secondhand



WARDS YARD, 133 SPRINGFIELD PARK ROAD, CHELMSFORD, ESSEX, CM2 6EE

01245 494455

Open 9-5.30 Mon, Tues, Thurs, Fri, Sat. Closed Weds & Sun.

Email: heatherwilkinson@btconnect.com Web: johndutfieldmodelrailways.co.uk

Kent

KENT GARDEN RAILWAYS

Specialist suppliers of
G scale and 16mm
garden railways

LGB • Accucraft
Bachmann
Aristocraft • Piko • Pola
Roundhouse
USA Trains, etc.

Large stocks of OO and N
from all leading suppliers

Hornby • Bachmann
Farish • Heljan
Peco • Dapol
Metcalf • Ratio
Wills ViTrains
Woodland Scenics, etc.

American HO and N from leading suppliers

www.kgrmodels.com

66 High Street, St Mary Cray, Orpington, Kent BR5 3NH

Telephone: 01689 891668

Shop open: Monday to Saturday 09:00 to 17:00

Isle Of Wight

Visiting the Isle of Wight?

Two floors of
engines, wagons, coaches, buildings,
scenery, electrics, figures, cars
and much more!

N/009/HO/00/On30/G

UPSTAIRS DOWNSTAIRS

Pier Street - Sandown - PO36 8JR
01983 406 616 - www.udlow.com

Leicestershire

Skytrex Model Railways

Unit 1, Charnwood Business Park,
North Rd. Loughborough,
Leics. LE11 1LE
tel: 10509 213789

For OO Gauge

www.skytrexmodelrailways.com

For O Gauge

www.ogauge.co.uk

Northumbria

Northumbrian Painting Services



Manufacturer of metal railway figures. Figures available in N Gauge, OO Gauge
and O Gauge. Resin, MDF buildings and scenery
www.paintinghistory.co.uk 01434 600529

Scotland

SPORTS GO MODEL SHOP

Traditional Model Shop
with large range of OO and
N gauge model railways
Plastruct, Glues,
Scenics, Metals

66 High Street, Dingwall, IV15 9RY

Tel: 01349 862346

www.sportsandmodelshop.co.uk

Open Mon-Sat 9.15 - 17.00

MODEL RAIL

Somerset

EAST SOMERSET MODELS

THE RAILWAY STATION,
CRANMORE, SHEPTON MALLET,
SOMERSET, BA4 4QP

"MODEL RAILWAY SPECIALISTS"

We carry comprehensive stocks from the major manufacturers

Bachmann, Farish, Dapol, Oxford Rail, Heljan and Peco

We also hold a large range of modelling accessories, vehicles and scenic materials

Wednesdays and Saturdays 10.30am-4pm - Sundays 10.30am-2.30pm

(See our Website/Facebook Page for other opening days)

Telephone: 01749 880651 - www.esmodels.co.uk - Email: mail@esmodels.co.uk

Staffordshire

THE HOBBY GOBLIN

54 Hamil Road, Burslem, Stoke-on-Trent ST6 1AU
New special commission 7-plank wagon in
OO and O gauge: 'Sneyd, Burslem'

• Hornby • Bachmann • Peco • Dapol
• Gaugemaster • Woodland Scenics
• Plus much more!

OPEN: Tue, Weds, Fri 10-4; Thurs 10-5.30, Sat 10-2

T: 01782 818433/07973 478294

E: thehobbygoblin-uk@hotmail.com

www.thehobbygoblin.co.uk

Surrey

COACH LIGHTING

DCC kit £4.10 DC kit £4.90 • 4 coach extension kit for above £5.20

Now available 'N' gauge

07801 796864

105 Charlock Way, Burpham, Guildford, Surrey. GU1 1XY

coach-lighting.com

Suffolk

Orwell Model Railways

Ipswich Model Railway Centre
48-52 Tomline Road
Ipswich IP3 8DB
01473 724578

www.orwellmodelrailways.co.uk

Open

Mon-Fri 10:00 - 16:00

Wed 10:00 - 18:00

Sat 10:00 - 17:00

Tyne And Wear

Pooleys Puffers

Partnership: David and Anne Poole



Model Railway Supplies,
New & Second Hand Bought & Sold
Diecast Models, kits & accessories

Tel: 0191 4910202/4106386

Mobile: 07976 519178

www.pooleyspuffers.com

email: pooleyspuffers@btpopenworld.com

382a Jedburgh Court, Team Valley Trading

Estate, Gateshead, Tyne & Wear NE11 0BQ

Mon - Sat 10am - 4pm

Sunday & Bank Holidays: CLOSED

When attending weekend exhibitions shop will be

closed. Please phone FRI & SAT for opening times.

Sussex

Train Times Model Shop

Find us at

37 Seaside, Eastbourne, BN22 7NB

(01323) 722026

traintimestoo@gmail.com

www.traintimesmodelshop.co.uk



82% of those who read more magazines due lockdown will continue to read
more magazines post lockdown (source Bauer insiders July 20)

25% report that spend on them has increased during the crisis
and this increases to 31%

CONTACT US

Media House, Lynchwood, Peterborough Business
Park, Peterborough PE2 6EA
E-mail: modelrail@bauermedia.co.uk

EDITORIAL

Telephone: 01733 468000
Editor: Richard Foster
Deputy Editor: George Dent
Consultant Editor: Chris Leigh
Staff Writer: Chris Gadsby
Model Consultant: Dave Lowery
Editorial Assistant: Jane Skinner
Art Editor: Matthew Hunt
Production Editor: Shane Collins
Sub Editor: Richard Hampson
Photography: Jacques Portal, Chris Nevard
Artist: Andrew Mackintosh

PRODUCTION

Telephone: 01733 468377
Print Production Manager: Richard Woolley
Advertising Production: Zoe Bellamy
Printed by: Wyndeham, Walstead, Bicester, Chaucer
Business Park, Launton Road, Bicester, Oxon OX26 4QZ

ADVERTISING

Senior Sales Exec Display: Gemma Smith
01733 366379
Group Sales Manager: Lucy Scott
01733 366434

MARKETING

Telephone: 01733 468000
Marketing Manager: Emma Glanville
Head of Newstrade: Leon Benoiton
Newstrade Marketing Manager: Karen Caruso

SUBSCRIPTIONS & BACK ISSUES

To contact us about subscriptions orders, renewals, missing issues or any other subscription queries, please e-mail bauer@subscription.co.uk or call our UK number on 01858 438884. If you're outside the UK, call +44 1858 438884. To manage your account online, visit www.greatmagazines.co.uk/solo. To order back issues, please call our UK number on 01858 438884. If you're outside the UK, call +44 1858 438884. **For binders call 01733 840111**

H BAUER PUBLISHING

Managing director: Sam Gallimore
Editorial director: June Smith-Sheppard
Digital managing director: Charlie Calton-Watson
Chief financial officer Bauer Magazine Media: Lisa Hayden
CEO, Bauer Publishing UK: Chris Duncan
President, Bauer Global Publishing: Rob Munro-Hall
Syndication e-mail address: syndication@bauermedia.co.uk



From January-December 2019 *Model Rail* sold an average of 22,663 copies per issue, as independently confirmed by the Audit Bureau of Circulations (ABC).

Model Rail magazine is published 13 times per year by H Bauer Publishing, registered in England and Wales with company number LPO03328, registered address Media House, Peterborough Business Park, Lynchwood, Peterborough PE2 6EA, VAT no. 918 5617 01.

COMPLAINTS: H Bauer Publishing is a member of the Independent Press Standards Organisation (www.ipso.co.uk) and endeavours to respond to and resolve your concerns quickly. Our Editorial Complaints Policy (including full details of how to contact us about editorial complaints and IPSO's contact details) can be found at www.bauermediacomplaints.co.uk

Our e-mail address for editorial complaints covered by the Editorial Complaints Policy is complaints@bauermedia.co.uk

H Bauer Publishing and Bauer Consumer Media Ltd are authorised and regulated by the FCA (Ref No. 845898) and (Ref No. 710067)

No part of the magazine may be reproduced in any form in whole or in part, without the prior permission of H Bauer Publishing. All material published remains the copyright of H Bauer Publishing and we reserve the right to copy or edit any material submitted to the magazine without further consent. The submission of material (manuscripts or images etc) to H Bauer Publishing, whether unsolicited or requested, is taken as permission to publish that material in the magazine, on the associated website, any apps or social media pages affiliated to the magazine, and any editions of the magazine published by our licensees elsewhere in the world. By submitting any material to us you are confirming that the material is your own original work or that you have permission from the copyright owner to use the material and to authorise H Bauer Publishing to use it as described in this paragraph. You also promise that you have permission from anyone featured or referred to in the submitted material to it being used by H Bauer Publishing. If H Bauer Publishing receives a claim from a copyright owner or a person featured in any material you have sent us, we will inform that person that you have granted us permission to use the relevant material and you will be responsible for paying any amounts due to the copyright owner or featured person and/or for reimbursing H Bauer Publishing for any losses it has suffered as a result. Please note, we accept no responsibility for unsolicited material which is lost or damaged in the post and we do not promise that we will be able to return any material to you.

Finally, while every reasonable precaution is taken to ensure accuracy, H Bauer Publishing is not responsible for any errors or omissions, nor do we accept any liability for any loss or damage, howsoever caused, resulting from the use of the material.

Model Rail, ISSN 1369-5118, USSN 8710, is published every four weeks by Bauer Consumer Media Ltd, Media House, Peterborough Business Park, Lynch Wood PE2 6EA, United Kingdom. The US annual subscription price is \$101.79. 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 Jamaica NY 11431. US Postmaster: Send address changes to *Model Rail*, WN Shipping USA, 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA. Subscription records are maintained at Bauer Media, Subscriptions, CDS Global, Tower House, Sovereign Park, Lathkill Street, Market Harborough, Leicestershire LE16 9EF, United Kingdom. Air Business Ltd is acting as our mailing agent.



Class 303 EMU

Present your case

If there's a locomotive that you think needs to be offered ready-to-run, here's the place to voice your opinion...

Item: Class 303/Class 311 AC EMU

Gauge: '00'

Proposed by: Darrel Hendrie, by e-mail

What is it?

Scotland has had its fair share of famous and, dare I say, iconic trains over the years but the so-called 'Blue Trains' are high on that list. These 91 three-car 25kV AC EMUs were built by Pressed Steel at Linwood and were introduced from 1960 on the newly electrified suburban routes around Glasgow.

These trains were the best looking of the first generation EMUs and their Caledonian blue livery helped them to stand out from the crowd. They had power-operated sliding doors, while other new trains of the period were being built with slam doors. Plus you could sit behind the driver and look out the front in the same way you could on a DMU.

Passengers loved them, they were a huge improvement on the steam service that had gone before - no longer were low-level stations a sooty and smoky hell on earth. Passenger numbers increased 100% in the first month of service.

In 1967, 19 further sets were built by Cravens of Sheffield for the newly electrified Gourock and Wemyss Bay line. These became Class 311.

What would make it viable?

Firstly, with minimal changes to the tooling, you'd be able to offer both Class 303 and Class 311 units. You'd be able to achieve further variation by offering the original noses with curved screens as well as the revised cabs with

flat screens. In the mid-1980s, 50 '303s' were refurbished with all-new interiors and gangways, and a model manufacturer would be able to offer this option too.

These units were not just limited to Scotland. In the 1980s some of the Class 303s were transferred to Longsight depot and worked services around Manchester and from Crewe to Liverpool. 303048, one of the unrefurbished sets not to be withdrawn in the early 1990s, received Caledonian blue and was used on rail tours and visited open days as far away as Brighton. Another, 303049, became a test unit based at Clacton.

This means that a huge choice of colour schemes can be offered. During their careers, they carried Caledonian blue, Rail blue, Strathclyde orange, Strathclyde crimson and cream as well as Railtrack, Greater Manchester PTE and Network SouthEast liveries.

Who could resist this much-loved EMU with a long lifespan that covered such a large geographical area?

Can I see a real one?

The last of the 303s were withdrawn in 2002 after 42 years in service.

A complete three-car Class 303 set (formed from cars from sets 303023 and 303032) is preserved at the Bo'ness & Kinneil Railway, while a fourth car, BDTSO 75613, is at the Police Training School at Gravesend. Two cars of Class 311 set 311103 are under cosmetic restoration at Summerlee Heritage Park at Coatbridge.



Have your say

Do you agree with Darrel's argument? Go to www.model-rail.co.uk and take part in our vote.

How to join in

Want to present your own case? Send us 400 words explaining your choice to modelrail@bauermedia.co.uk, putting 'Present Your Case' in the subject line.

JOHN E. HENDERSON/COLOUR RAIL



Class 311 EMU

Behind the Backscene

Model Rail fires the questions at LNER guru and curry enthusiast **Tony Wright**

Tony Wright is a modeller and model railway photographer.

1 What was your first train set/model?

A Tri-ang 'Transcontinental' 4-6-2, plus some box cars and a caboose, in 1953.

2 Are you working on a layout now?

Yes, I'm just completing my 4mm:1ft model of 'Little Bytham'.

3 What piece of modelling are you most proud of?

I built a 4mm:1ft scale ACE 'P2' as No. 2002 *Earl Marischal* for A1 Trust Chairman Mark Allatt. Ian Rathbone painted it – perfectly!

4 Have you ever finished a model railway?

Yes – several, all as a member of Wolverhampton MRC: 'Pendeford', 'Fordley Park', 'Leighford', 'Stoke Summit' and 'Charwelton'.

5 What model have you've always longed for?

None really. If I want a particular model, I'll build it.

6 Favourite trainspotting location?

Retford.

7 Favourite locomotive?

The production 'Deltics'.

8 When did you start working in the model railway industry?

Full time, in the early 1990s. Prior to that, I regularly contributed to the model press.

9 What did you do beforehand?

Teacher.

10 What modeller has influenced you the most?

The late Brian van Meeteren – he really should be much better known.

11 Strangest thing you've ever eaten?

I don't think I've ever eaten anything 'strange'. I'm incredibly fussy about what I eat – as my wife will testify!

12 What is one of your weird quirks?

I don't suffer fools gladly... is that a quirk?

13 What book are you reading at the moment?

The Book of the V2 2-6-2s, by Peter Coster, Irwell Press. I'm currently building a 'V2'.

14 If you were stranded on a tropical island, what two things would you want with you?

A lighter and a gun!

15 What have you done that you are most proud of?

Regularly fundraising (via this hobby) for Cancer Research UK.

16 What was your favourite cartoon show growing up?

Popeye.

“ I don't suffer fools gladly... is that a quirk? ”



17 What is your favourite song?

Or tune? That being the case, Handel's *Largo*.

18 First record you bought?

Gambler's Guitar by Rusty Draper. You'll have to look that one up!

19 What is the best advice you ever had?

Marry money – though I didn't take it!

20 What is one food you wouldn't want to give up?

Curry. Proper curry.

21 If you had access to a time machine, where and when would you go?

I'd stay where I am right now (I live in Little Bytham) – but I'd go back to July 3 1938.

22 Favourite film?

Hobson's Choice.

23 Temptation you wish you could resist?

A tendency to be sarcastic, at times.

24 What is your best childhood memory?

Seeing my first 'A4'. It was No. 60014 *Silver Link* at Riccall, just north of Selby, in the early/mid-1950s.

25 The hidden talent which would surprise people?

I doubt if I've got too many obvious ones.

26 If you could pass any new law?

An immediate reinstatement of capital punishment.

27 What do you drive?

I did drive a TVR Chimaera 500 up until recently... now it's a Ford Focus ST.

28 Perfect Sunday?

Watching a village cricket match. I used to play until recently.

29 What actor would you like to play you in a film?

John Mills.

30 How would you like to be remembered?

Not as someone who 'meant well'.



ALAMY

Next month Creator of some of the most realistic railroad scenes ever, Pelle Soeborg.

Selling your model railway

Warwick and Warwick have an expanding requirement for early to modern collections of British and Foreign trains and train sets from large accumulations to items of individual value. Our customer base is increasing dramatically and we need an ever larger supply of quality material to keep pace with demand. The market has never been stronger and if you are considering the sale of your collection, now is the time to act.



FREE VALUATIONS - We will provide a free, professional valuation of your collection, without obligation on your part to proceed. Either we will make you a fair, binding private treaty offer, or we will recommend inclusion of your property in our next public auction.

FREE TRANSPORTATION - We can arrange insured transportation of your collection to our Warwick offices completely free of charge. If you decline our offer, we ask you to cover the return carriage costs only.

FREE VISITS - Visits by our valuers are possible anywhere in the country or abroad, in order to assess more valuable collections. Please phone for details.

ADVISORY DAY TOWNS - We are holding advisory days in all areas of the United Kingdom, 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



GAUGEMASTER

Analogue Control



Choose your controller for life with the Gaugemaster Lifetime Guarantee...

We have been producing Model Railway Controllers for over forty years. Our analogue controllers have stood the test of time, and so has our lifetime guarantee:

"We undertake to replace, free of charge, any parts found defective within the lifetime of the unit providing that the item has not been tampered with."

What's the difference between the controller types?

Our **Mains Powered Cased Controllers** come complete with transformer, and can just be plugged in, connected to the track, and away you go. **Panel Mounted Controllers** require a separate transformer, and also need to be mounted onto a control panel to be used effectively.

We also produce various controllers with **Feedback** and **Simulation**, two effects controlled by the controller itself. **Feedback** senses the load on the circuit and helps maintain the locomotive at a steady speed up and down gradients. **Feedback** controllers are not suitable for use with locomotives with coreless motors. **Simulation** (also known as Inertia) allows a train to accelerate, coast, and be braked to a standstill, by use of a regulator and a brake.

MAINS POWERED CASED CONTROLLERS

GMC-COMBI Single Track Controller/Transformer
Most Suited for HO/OO/N Scale Layouts



Fantastic for small layouts or beginners upgrading a starter set, the Combi has both a 12V DC output to run one track, and a 16V AC output for accessories.

BEST FOR
Beginners

GMC-D Twin Track Controller
Most Suited to HO/OO/N Scale Layouts



Our best selling controller. Runs a two track railway with minimum of fuss. The D Controller has two 12V DC track outputs, as well as a 16V AC output for accessories.

BEST FOR
Twin Tracks

GMC-Q Four Track Controller
Most Suited to OO/HO/N Scale Layouts



The best selling four track controller available today. It offers impressive value for money with its four 12V DC track outputs, and two of 16V AC and 12V DC outputs for accessories.

BEST FOR
Four Tracks

PANEL MOUNTED CONTROLLERS

GMC-100 Single Track Panel Controller
Most Suited to OO/HO/N/Z Scale Layouts



Some modellers may wish to incorporate their controller into an overall panel to control their layout. The Model 100 Controller has a single 12V DC output.

BEST FOR
Control Panels

GMC-U Single Track Controller with Simulation
Most Suited to OO/HO/N/Z Scale Layouts



With the brake knob controlling the 12V DC track output, this controller allows you greater realism when running locomotives.

BEST FOR
Realistic Running

GMC-W Single Track Walkabout Single Track Controller
Most Suited to OO/HO/N/Z Scale Layouts



Fitted with 1.5m of cable, this controller allows you the freedom to move around your layout while still controlling your layout. It has a single 12V DC track output.

BEST FOR
Flexibility

Did you know...

If you don't have a handy accessory output from a controller, the **GMC-WM1** Wall Mounted Transformer can be used on its own to power accessories, such as point motors and lights from the 16V output. Just plug it in and connect it up!

GMC-WM1
Wall Mounted
Transformer
16V or 12V DC 1.1a



Find us on Facebook:
@Gaugemaster
Follow us on Twitter:
@Gaugemaster
Follow us on Instagram:
@gaugemaster_controls

PRICES

Cased Controllers

GMC-COMBI	Single Track Controller/Transformer	£45.00
GMC-100M	Single Track Controller	£115.00
GMC-100MO	Single Track Controller for O Scale	£120.00
GMC-10LGB	Single Track Controller for G Scale	£125.00
GMC-10LGBSF	Single Track Controller for G Scale with Fan	£215.00
GMC-P	Single Track Controller with Simulation	£125.00
GMC-D	Twin Track Controller	£125.00
GMC-DS	Twin Track Controller with Simulation	£200.00
GMC-TS	Three Track Controller with Simulation	£215.00
GMC-Q	Four Track Controller	£225.00

Panel Mounted Controllers (Orange text shows transformer required)

GMC-100	Single Track Controller (GMC-T1/M1)	£45.00
GMC-100.O	Single Track Controller for O Scale (GMC-T2/M2)	£50.00
GMC-U	Single Track Controller with Simulation (GMC-T1/M1/WM1)	£55.00
GMC-UF	Single Track Controller with Feedback (GMC-T1/M1/WM1)	£50.00
GMC-UO	Single Track Controller with Simulation for O (GMC-T2/M2)	£70.00
GMC-UD	Twin Track Controller (GMC-T1/M1/WM1)	£65.00
GMC-UDS	Twin Track Controller with Simulation (GMC-T1/M1/WM1)	£90.00
GMC-UQ	Four Track Controller (GMC-T1/M1/WM1)	£100.00

Walkabout and Hand Held Controllers

(All GMC-T1/M1/WM1)

GMC-W	Single Track Walkabout Controller	£40.00
GMC-HH	Single Track Handheld Controller with Feedback	£45.00

Transformers

GMC-M1	Cased Transformer 16V AC	£60.00
GMC-M2	Cased Transformer 18V AC 2.5V	£60.00
GMC-M3	Cased Transformer 24V AC	£60.00
GMC-M4	Cased Transformer 12V AC	£60.00
GMC-T1	Open Transformer 2x 16V AC 1a	£30.00
GMC-T2	Open Transformer 18V AC 2.5a	£30.00
GMC-T3	Open Transformer 24V AC	£30.00
GMC-T4	Open Transformer 2x 12V AC 1a	£30.00
GMC-WM1	Wall Mounted Transformer 16V or 12V DC 1.1a	£25.00
GMC-WM2	Wall Mounted Transformer 9v DC (1600mA) 1.6A	£20.00
GMC-WM3	Wall Mounted Transformer Kato Unitrack UK Power Supply	£20.00
GMC-WM4	Wall Mounted Transformer 12v DC Smoothed for Lighting	£20.00
GMTFK1	Transformer Fitting Kit for T1/T3/T4	£15.00
GMTFK2	Transformer Fitting Kit for T2	£15.00

See the GM365 Gaugemaster Catalogue (£5.00) for more details

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

sponsored by

Tim Horn
Lasercut Baseboards & Buildings

MODEL RAIL

Skills Station

Welcome to the first part of the Skills Station baseboard module. Whether you're a beginner or an experienced modeller looking to hone your

skills, our team of experts will split a modelling task or skill into easy to follow, bite-sized chunks, busting myths along the way.

Join our Facebook group and

you can post your pictures and chat to fellow modellers all learning the same skills. We'll offer friendly feedback and tips to make you even better!



Richard Foster Editor



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



THE ESSENTIAL GUIDE TO BASEBOARDS

Pt 1: Doing it yourself

Creating your own baseboards offers economy and the flexibility to produce exactly what you need. It also allows us to polish up our woodworking skills. Always happy to wield a saw, **George Dent** provides the lowdown on how to build your own baseboards.

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

Skills Station

IS THERE A RIGHT WAY?

All model railways must start with a baseboard and, over the years, I've seen boards built in so many different ways that it's impossible to recommend one definitive method. As long as the structure is strong, stable and allows the trains to run smoothly over the top, then it's doing its job. If portability is desired, then weight becomes an important factor, while a layout's location may also determine the materials and techniques employed, especially when building a model railway in a cellar, shed or attic.

Most layout builders, however, do at least follow the tradition of building a baseboard

A sound baseboard is only ever as good as the framework beneath, so take the time to get yours assembled correctly. The traditional method consists of a softwood framework and a plywood top.



Open-framed baseboards employ similar techniques, but the lack of a solid top allows the trackbed to be raised and scenic contours to be created, while also minimising the overall weight. GRAHAM NICHOLAS



with a softwood framework and a plywood or fibreboard upper surface. Flat-top baseboards are the easiest to erect, but they can be a limiting factor when it comes to creating interesting scenic contours.

They can also be heavy, whereas open-framed boards allow the track bed to be raised up on plinths and the scenery formed over a hollow, lightweight framework. While they often feature the same materials and processes, open-framed baseboards can often be more complex, so we'll concentrate on the humble flat-topped boards here.

My own tried-and-trusted method of baseboard construction involves a framework of 32 by 18mm planed softwood, topped with 9mm thick exterior grade

plywood. In most instances, I'll keep individual boards to a maximum of 4ft in length and around 18-30in in width, which keeps weight within a sensible limit for movement by one person. These materials are readily available from DIY stores, in convenient sizes and at reasonable prices, while minimal tools are required to cut and bond the parts, although a certain level of proficiency in woodworking is required.

Creating strong, reliable joints between the individual timber sections is vital and, in the absence of complex dovetail or tenon joints, we need to employ glue and screws or nails to help the parts stick together. I prefer screws over nails, as the whole baseboard can be assembled 'dry' and any problems resolved before glueing it up permanently.

CHOOSING YOUR WOOD

Baseboards form the bedrock of our layouts and their integrity ultimately governs the reliability of the trains that run across the surface. Twisted or bowed timber and ill-fitting joints will result in a bumpy and unpredictable ride, while shrinkage or warping can put rails out of alignment, especially where the rails bridge baseboard connections.

Most baseboard problems can be eliminated before construction begins, simply by exercising caution when choosing your raw materials, especially when frequenting large DIY chains that may not always offer the best quality stock. Be prepared to search the shelves for the best lengths of softwood or sheets of plywood, rejecting inferior material that may be full of knots or showing signs of twisting. A local timber merchant may be a little more expensive, but the standard of material is likely to be superior.

Poor seasoning and conversion, without considering the orientation of the grain, means that wood may be at risk of warping, shrinking or cracking. Stress-graded timber will be free of major defects and intended for construction use, while 'clear' timber will be graded on its appearance and destined for decorative uses. These grades



Knots can weaken timber, especially if joints are located nearby or if the knot is loose. Also look out for weeping resin pockets.

are more expensive and may only be advertised in larger sizes, although timber merchants will be able to machine them into more workable sizes. It's well worth contacting your local merchant, explaining exactly what you need and obtaining a quote that could include delivery.

SOFTWOOD VS HARDWOOD

Softwood comes from coniferous species (commonly spruce, fir, redwood and pine) and contains a more uniform cell structure than most hardwoods that have a naturally complex make-up. Broad-leaved trees, such as oak, ash and beech, produce hardwoods. In very basic terms, softwoods are fast-growing, light and relatively cheap, while hardwoods are rugged, heavier and more resistant to moisture and decay.

Sawn timber is sold as 'dimensioned' stock, although the sizes listed relate to the dimensions of the wood as it comes off the saw. PSE (Planed Square Edge) timber, therefore, will be a little smaller. For example, a length of 2in by 1in (51mm by 25mm) PSE softwood will actually be around 32mm by 18mm. Some DIY stores now state the 'finished' size on the packaging, but more traditional merchants do not, so it's worth checking before you buy. The stated length, on the other hand, is always accurate.

When examining timber, hold out each piece and look along its length to check for straightness. If it is bowed or twisted, reject it - you won't be able to straighten it! Also, check the surface for splits along the grain or weeping resin pockets. Loose knots and uneven grain patterns can make the wood hard to work or may lead to problems in the future.

Also, look at the end grain and note the pattern: if you can see the centre of the tree or near-complete annular rings, don't buy it, as this wood will be prone to distortion. The best cuts have the grain as straight as possible at the ends, running at near right angles to the wider faces (termed 'quarter-sawn'). Optimum cuts are significantly more expensive and can only be derived from older, larger trees, but the timber will be much more reliable in service.

KNOW YOUR SAWS

Tenon saws, with a shorter, stiffened blade and medium-set teeth, produce straight cuts in smaller timber sections. Panel saws are longer, flexible and designed for cutting through larger pieces of wood and sheet materials. The more teeth-per-inch that a saw has, the cleaner the cut will be, hence why tenon saws have many small teeth. In contrast, panel saws often have fewer teeth to allow them to remove more waste with each stroke, speeding progress but leaving a rougher finish.



MAN-MADE BOARDS

MDF is cheap and relatively light but it doesn't cope well with damp conditions, although special water-proof grades are available. Good quality plywood is a lamination of thin sheets of hardwood, the grain of each layer orientated at right angles to its neighbour, thus increasing strength and resistance to warping. Exterior grades can cope with moisture, but care is required when cutting to prevent splintering.



ESSENTIAL TOOLS

Panel saw
Tenon saw
Setsquare
Plane
Drill, bits and countersink
Screwdrivers
Hammer
Bradawl
Tape measure
Clamps



As well as a good-quality PVA wood glue, you'll also need a supply of good quality wood screws and nails.

STEP BY STEP

BASEBOARD CONSTRUCTION


1

Use a tape measure and a very sharp pencil or marking knife against a carpenter's set square to mark the cut line around all four faces of the wood. Ensure that no cuts are made in close proximity to any large knots, as this will lead to weak joints.


2

Place the timber in a vice or bench hook and align the blade against the waste side of the line, using the thumb of your other hand as a guide. A few gentle backwards strokes will get the blade started. Maintain slow, steady strokes without exerting too much pressure.


3

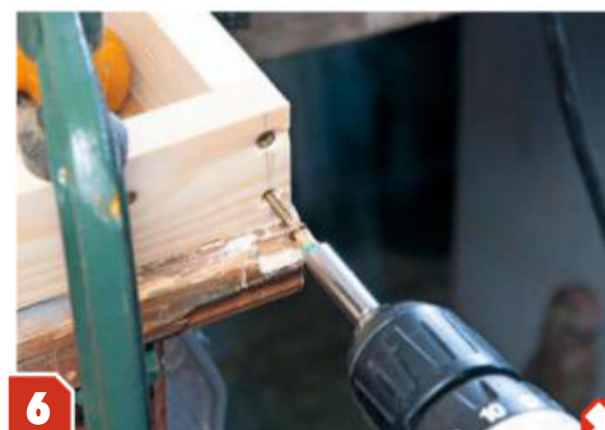
As the saw cuts, keep checking that it's working straight and square to the marked cut lines, supporting the 'waste' as the cut gets deeper. Check the edge with a set square and tidy up with sandpaper if necessary. Practising on scrap wood is recommended.


4

After cutting the main elements of the framework - two ends, two side members and one or two centre stretchers - they will need to be assembled on a flat surface, such as a workbench or a kitchen worktop protected with sheets of cardboard.


5

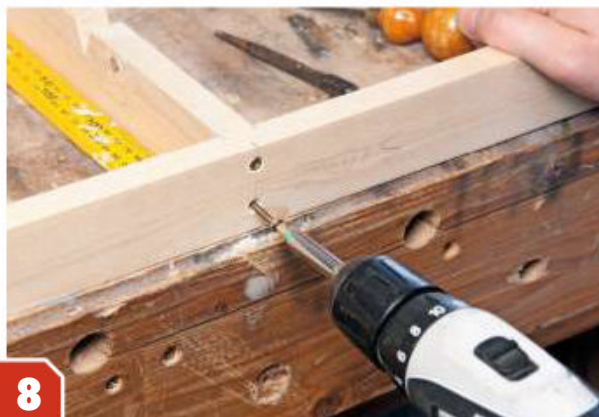
Start with one outer corner and clamp the side and end members at a precise right angle, using a set square or framing square to check. Check also that both pieces of timber are standing perpendicular to the work surface.


6

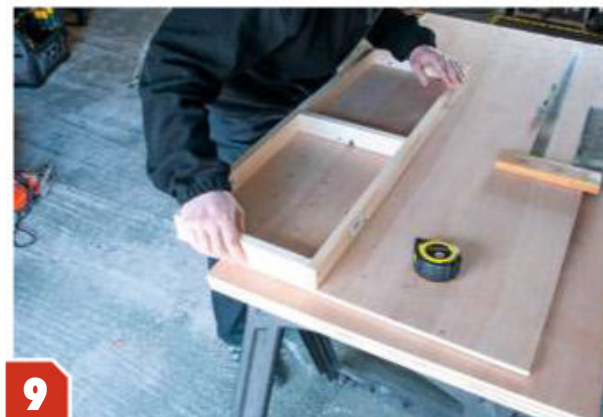
Mark and drill a pair of fixing holes, using a drill bit just smaller than the screws you intend to use. Follow with a countersink bit to allow the screw heads to sit just below the wood's surface. Drive the screws home gently and don't over-tighten them.



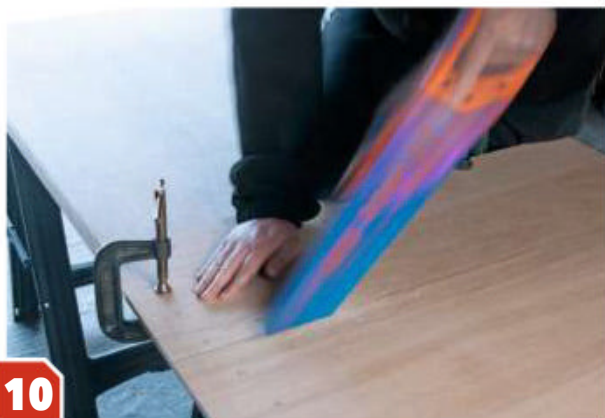
7 Repeat the process with the other three corners. Before adding the central stretchers, cut small 'V' shaped slots in the upper edge to allow underboard wiring to pass through. Alternatively, drill a series of holes in the stretcher.



8 Fix the crossmembers into place, ensuring that these are also at right angles to the side members. Again, avoid over-tightening the screws or the wood may split. When the last screw has been driven home, your frame is ready for the top surface.



9 Lay the assembled frame onto the sheet material that will form the top surface, fractionally inboard of the outer edges. Mark out the edge of the frame with a pencil, allowing a small overlap on each side of the frame.



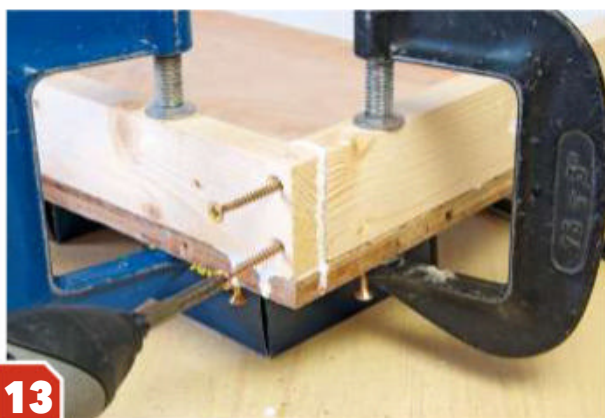
10 Refine your pencil lines with a straightedge before cutting the MDF or plywood with a sharp panel saw. If possible, clamp the sheet to a workbench or saw horse to keep it steady as you cut. Support the wood on the other side of the cut as you work through the material.



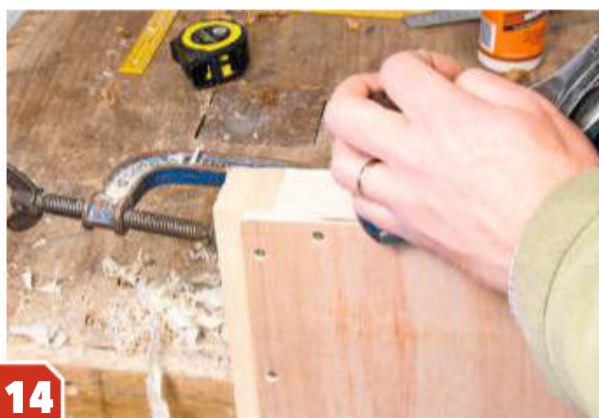
11 Tidy up the cut edges with a surform and/or sandpaper before marking out and drilling holes for the screws to fix the top to the frames, countersinking the holes as before. Be careful not to drill holes into the screws holding the framework together.



12 After checking that the baseboard appears straight and flat, mark out the parts carefully so that they can be reassembled in the same sequence. After dismantling, repeat the assembly process but, this time, apply a bead of PVA glue to each joint.



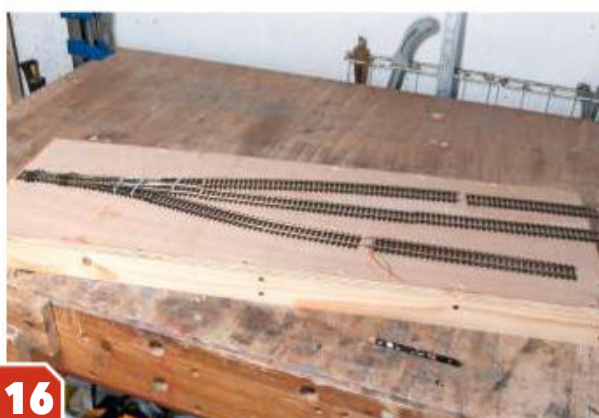
13 Clamp the parts together again to help squeeze out the excess glue while the parts are screwed back together. Wipe away surplus glue with a damp cloth as you complete each joint. It doesn't hurt to check the angles again, just to make sure everything is still square.



14 When the glue has fully cured, the small overlap on each edge of the baseboard can be cut flush with a bench plane. Mount the board with a scrap piece of wood held tight against the edge to prevent the plane from splitting the end grain.



15 Brushing a couple of coats of Danish oil, Teak oil or Shellac sanding sealer onto the bare timber and plywood surfaces not only provides an attractive finish but also offers protection from damp and decay.



16 The baseboard is now ready to receive track. Planning is important, to avoid siting turnouts over crossmembers, which will make it difficult to install point motors. Locations of power feeds also has to take this into consideration.



BACKSCENES AND PELMETS

Similar techniques and materials can be employed to erect a backscene 'box' to enclose one or more baseboards. By adding a pelmet across the top of the baseboard's front face, an effective viewing window is created. Such an arrangement also has the added advantage of allowing lighting to be installed within the pelmet and multiple baseboard units can be stacked during storage.

WHAT NEXT?

Not everyone fancies doing their own woodwork so, in Part 2, we explore laser-cut baseboard kits, which are becoming increasingly popular.