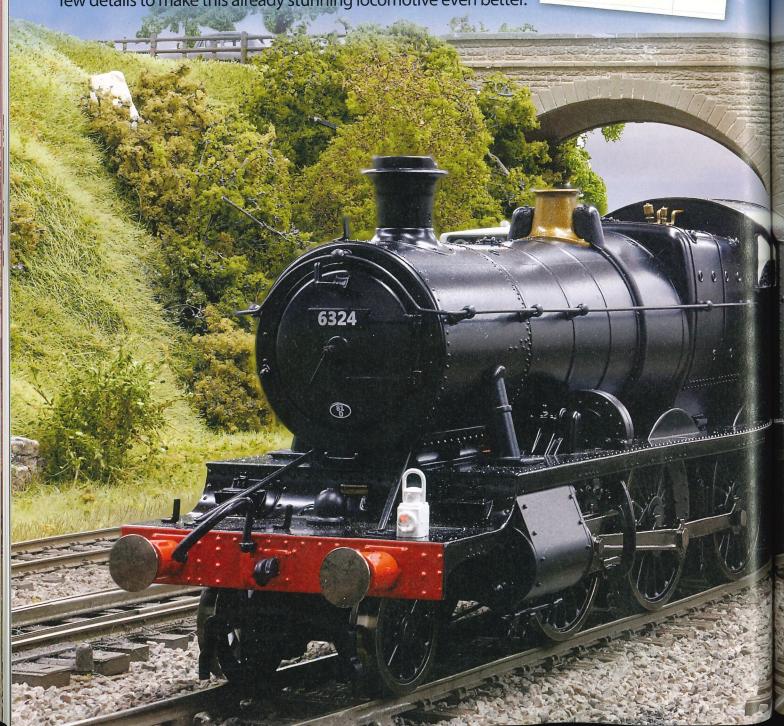
MOGUL MAGGETOOL *Soldering:

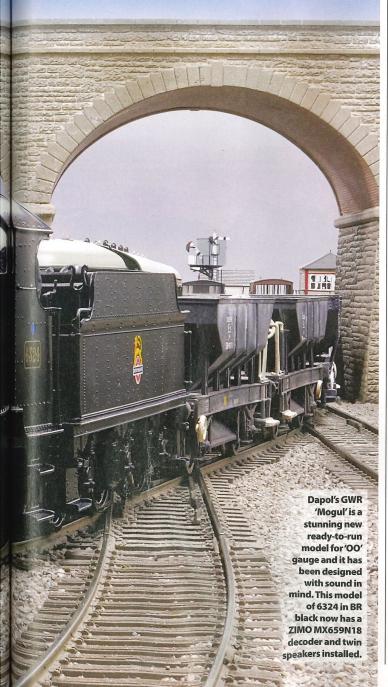
Dapol's new 'OO' gauge GWR 'Mogul' has been designed with simplicity in mind when it comes to digital sound upgrades. MIKE WILD explores its potential by installing twin speakers and a few details to make this already stunning locomotive even better.

- » Soldering iron
- » Solder
- » Wire strippers
- » Tweezers



DIGITAL CONTROL

TECHNICAL DETAILS	
Manufacturer:	www.dapol.co.uk
Cat No:	4S-043-004 (featured)
Description:	GWR'43XX'2-6-0 6324, BR black
Builder:	GWR, Swindon
Region:	Western Region
Gauge:	'00'/16.5mm
Scale:	4mm:1ft
Length (over buffers):	235mm
	5 (DCC fitted), £309.95 (DCC sound fitted)
Couplings:	Small tension locks in NEM pockets
DCC:	DCC ready, Next18 socket
Speaker:	15mm x 11mm cube (locomotive)
	40mm x 20mm (tender)
Exterior lights:	None
Interior lights:	Firebox flicker
Minimum curve radius (designed):	Second
Minimum curve radius (tested):	Second
Motor type:	Five-pole .
Flywheel:	One
Wheel arrangement:	2-6-0
Purpose:	Mixed traffic
Haulage capacity (expected):	Eight coaches
Haulage capacity (actual):	Eight coaches (maximum tested)





T'S NOT THAT LONG AGO THAT sound was an afterthought for ready-to-run locomotives, but recent releases have been following a trend to make the process simpler for modellers. Each manufacturer has its own outlook on how to achieve this, with Dapol's new 'OO' gauge GWR 'Mogul' being amongst those to put digital and sound installation high on the list of priorities for locomotive design.

The advantage is that Dapol has considered how the model will be used from the start of the design process. Provision has been made for two speakers, wiring is provided from the factory to connect these to the decoder and, moreover, access to the decoder socket is straightforward too. These considerations combined with a new no-wire power coupling between the locomotive and tender make this a very user-friendly locomotive, as we will show here.

When it comes to installing sound there are two choices with the 'Mogul'. You can go for the completely tool-free route by adding a 15mm x 11mm cube speaker and Next18 sound decoder inside the smokebox or, if you want the very best from the sound file, you can add a speaker in the tender as well for enhanced audio. Adding the second speaker requires a small crosshead screwdriver

and the use of a soldering iron in order to connect the speaker to the pre-fitted wires in the tender.

Even so, it is a straightforward process throughout and there is no cutting, drilling or modification required to introduce a twin speaker set up to the Dapol 'Mogul'.

Our project uses Digitrains' ZS012P GWR two-cylinder sound file loaded onto a ZIMO MX659N18* sound decoder. The Next18 plug and socket is very neat and saves space too. The decoder is highly capable and features 23 functions including live volume control through F27 and F28 (avoiding the need to use CV programming to adjust the locomotive's volume) as well as the F2 Active Brakes and F5 heavy/light engine sound sets which are hallmarks of the Proto and Active Drive sound decoder profiles sold by Digitrains.

To complete our 'Mogul' project
– at least until it is weathered
anyway – we added a Modelu
GWR crew and lamp using the
manufacturer's new locomotive
crew pack (HM162) as well as a
crushed coal load in the tender to
improve its appearance. 6324 is
now ready for service with sound
to match its super-detailed exterior.

The following step by step guide shows how we installed a ZIMO MX659N18 decoder and two speakers into the Dapol 'OO' gauge GWR'Mogul'.

WHAT WE USED		
PRODUCT	SUPPLIER	CAT NO.
ZIMO MX659N18 sound decoder	www.digitrains.co.uk	MX659N18
GWR'Hall'two-cylinder Proto-Drive sound file	www.digitrains.co.uk	ZS012P
15mm x 11mm cube speaker	www.dccsupplies.co.uk	112965
Rail Exclusive 40mm x 20mm speaker	www.digitrains.co.uk	LS40x20x7
Modelu GWR locomotive crew pack	www.modelu3D.co.uk	1010

STEP BY STEP DAPOL GWR'MOGUL' SOUND INSTALLATION GUIDE

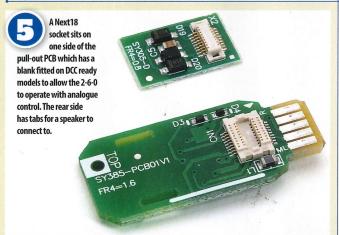


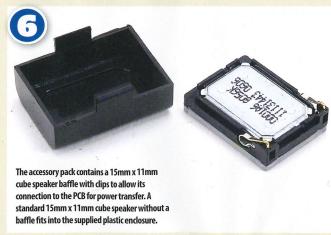
Dapol's new GWR'Mogul' has been designed with DCC and sound modellers in mind. It has a Next18 decoder socket in the smokebox on a pull-out PCB together with space for two speakers.

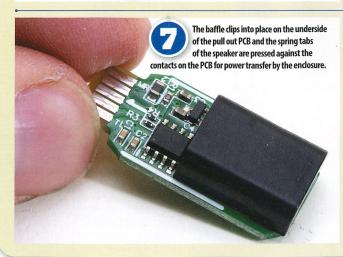


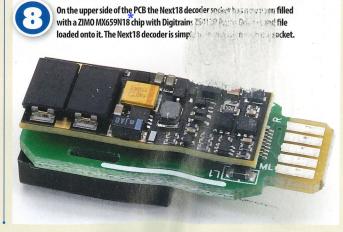






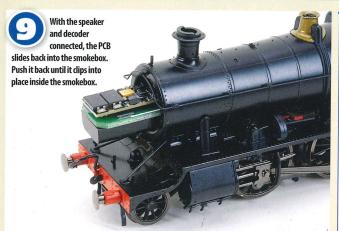






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The smokebox installation process is clean, neat and tidy and fills the space available. However, the '43XX' has space for a second speaker in the tender too expanding the performance of the sound decoder. Adding a second speaker is optional - the sound will play through the 15mm x 11mm cube speaker on its own if you prefer.



The power coupling between the locomotive and tender provides a modern means of connecting the tender and also makes it simple to separate the two parts during maintenance and sound installation.

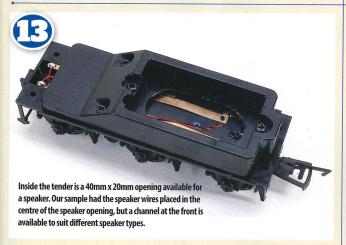


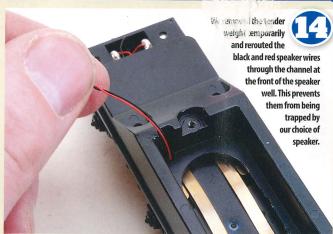




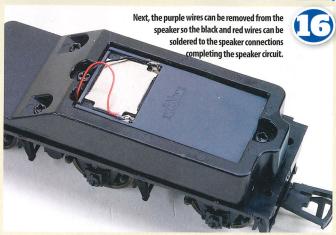
To access the tender interior, there are four crosshead of the tender chassis. Remove all four and keep the

to see at each corner











STEP BY STEP DAPOL GWR'MOGUL' SOUND INSTALLATION GUIDE



The tender body fits neatly back over the chassis as it did before, completing the sound installation. The tender speaker is an optional step in the sound fitting process but does enhance the decoder's audio performance.

