

The chunky lines of the Great Eastern 'N7' 0-6-2Ts are hard to resist. **MIKE WILD** completes his GER collection by installing sound in Oxford Rail's new BR black model of Stratford allocated 69612.

HE GREAT EASTERN
Railway's steam
locomotives have
been a popular
choice for readyto-run locomotives
over the last few years, and
especially with Hornby. It has
produced the 'J15' 0-6-0, the
'B12' 4-6-0 and the 'D16' 4-4-0,
all of which were rarely found
outside of their native territory.
The one that was missing though
was Hill's powerful suburban
passenger tank – the 'N7' 0-6-2T.

Oxford Rail put that right in early 2019 with the arrival of the first version of its 'OO' gauge model replicating locomotive 1002 in original Great Eastern grey (HM141). We had to wait a little while for the BR liveried model, but happily this version with a round topped boiler as 69612 touched down in October.

The first of the 'N7s', originally classified 'L77' by the GER, entered traffic in 1915 with further locomotives being built through the 1920s until a total of 134 had been built by 1928. They were designed for rapid acceleration of suburban trains on routes which had stations short distances apart. This included the heavily laden commuter trains from London Liverpool Street while others were allocated to the Great Northern services running from London King's Cross. In both cases they would be seen hauling Gresley non-corridor stock including the 'Quad-Art' articulated sets.

With its small 4ft 10in driving wheels, the 'N7' was quick off

the mark and we were keen to replicate that in model form with digital sound. Our choice of decoder is a Zimo MX648R coupled to a 15mm x 11mm cube speaker to bring the audio to life.

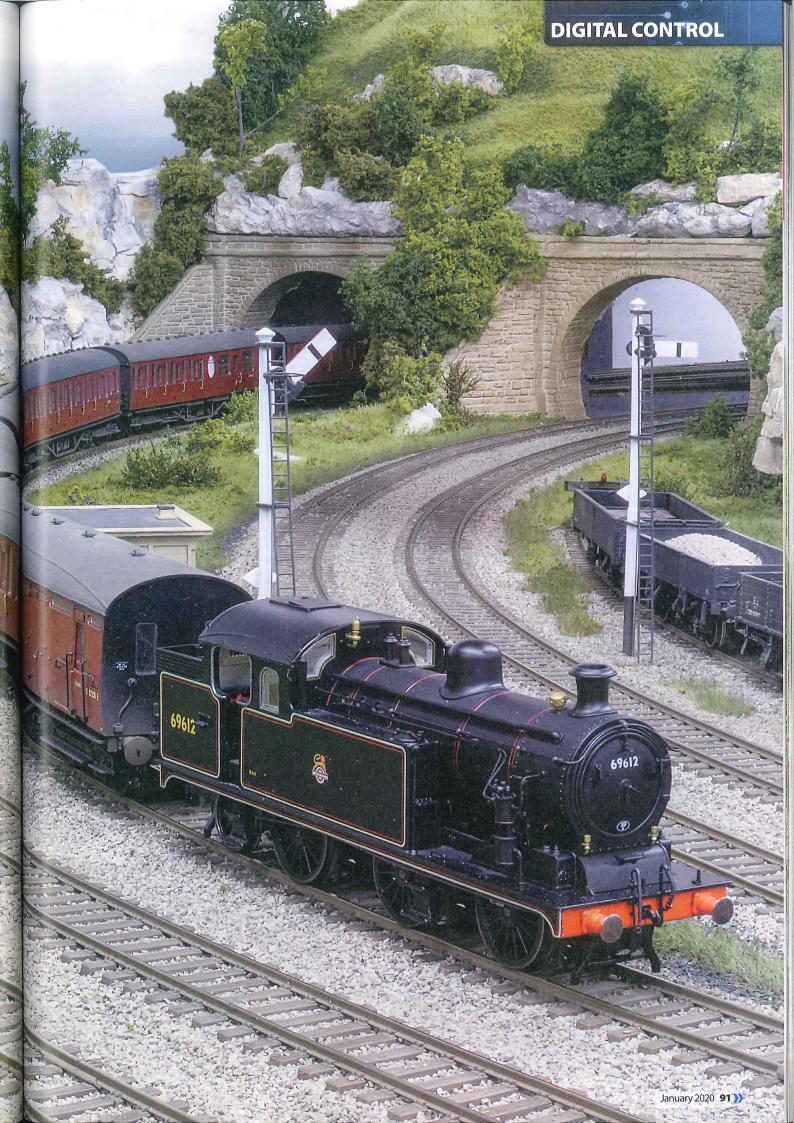
The sound file selected is Digitrains ZS022AP which is a file suitable for inside cylinder LNER locomotives with air pumps – a distinctive feature of the 'N7s'. This also features ActiveDrive which means that it has working brakes which can be dabbed on and off using F2 on a DCC handset. There is also the option to switch between heavy train and light engine modes which changes the intensity of the exhaust as well as the locomotive's response to throttle inputs.

As with all of the ActiveDrive sound files from Digitrains, it is a pleasure to drive once fitted into the locomotive and serves to bring this former Stratford locomotive to life. There was one complication with this project, finding space for the speaker, but happily we found a solution which doesn't require any modifications to the locomotive, just extra dismantling.

Oxford Rail is offering a sound fitted version of each of its 'N7s', but if you are looking for a custom version with superb driving characteristics then this project is just what you have been waiting for. The Zimo sound profile from Digitrains adds great character and is an enthralling chip to operate.

The step by step guide explains the method we used to install the Zimo decoder and speaker into 69612.

Newly equipped with a Zimo MX648R decoder and a modified 15mm x 11mm 'cube' speaker, 69612 heads a rake of Gresley non-corridor stock out of the tunnels on Topley Dale.

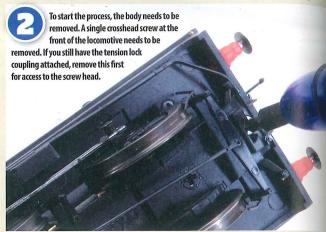


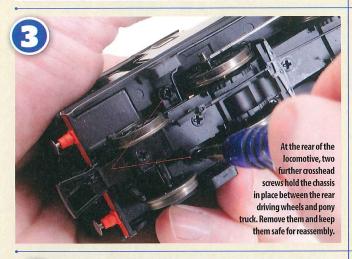
STEP BY STEP INSTALLING SOUND IN AN OXFORD RAIL 'N7' 0-6-2T





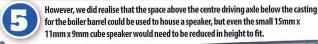
Oxford Rail's 'N7' 0-6-2T isn't blessed with a huge amount of internal space, but there is room for a decoder in the bunker. Finding space for a speaker was a greater challenge and even this small 15mm x 11mm cube speaker needed reducing in height to fit.

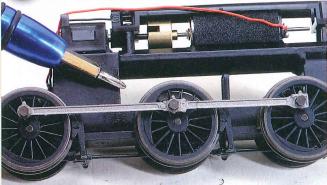






With the body off it soon became clear that space for a speaker really was at a premium. We considered the smokebox, cab and bunker as options but none were really feasible.





The rear plastic baffle of these speakers can be separated from the diaphragm so that it can be modified. On the right is a spare baffle which we had separated from another speaker.





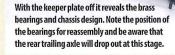


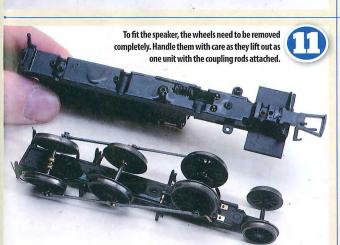


The 'N7' 0-6-2Ts were designed to haul the suburban trains which required rapid acceleration. In April 1959 69671 approaches Enfield Town with a service from Liverpool Street. Dave Cobbe Collection/Railphotoprints.uk.

WHAT WE USED		
PRODUCT	SUPPLIER	CAT NO.
Zimo MX648R 8-pin sound decoder	www.digitrains.co.uk	MX648R
Rail Exclusive 15mm x 11mm cube speaker	www.digitrains.co.uk	LS15x11x9
LNER inside cylinder steam engine with air pump	www.digitrains.co.uk	ZS022AP

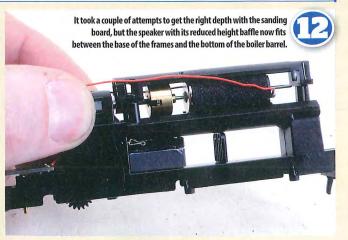
F27 Volume down F28 Volume up





Getting the speaker into place requires the wheels of the 'N7' to be removed. First, the five screws holding the keeper plate onto the

die-cast chassis need to be taken out.



- » Crosshead modeller's screwdriver
- » Soldering iron
- »Insulation tape
- » Black Tack

FUNCTION KEYS

KEY OPERATION

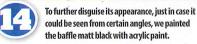
- Lights on /off (if fitted)
- Sound on/off F1
- F2 **Brakes**
- F3 Whistle
- Long whistle F4
- Heavy/light train
- Coal shovelling F6
- Live steam injector F7
- F8 **Blower**
- F9 Wheel flange squeal
- F10 Safety valves
- F11 Hand brake
- F12 Water filling
- F13 Coupling
- F14 Buffering
- F15 Cylinder drain cocks
- F16 Air pump (also random sound)
- F17 'Toot toot' whistle
- F18 Guard's whistle
- F19 Fade all sounds
- F20 Shunt mode

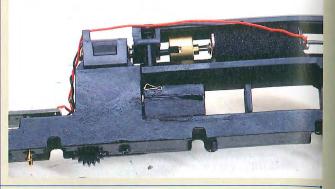
STEP BY STEP

INSTALLING SOUND IN AN OXFORD RAIL 'N7' 0-6-2T



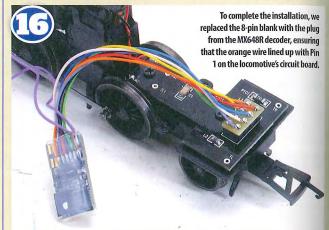






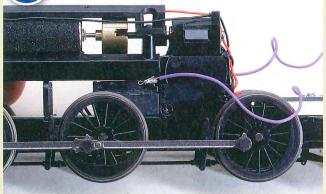


To prove that the speaker couldn't be seen, we temporarily refitted the chassis into the body. The speaker is neatly tucked away behind the side tanks.





The purple speaker wires were shortened by 20mm and the ends were stripped of 4mm of insulation so they could be soldered to each side of the speaker.



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To protect the speaker connections following completion of the installation we added black insulation tape over each soldered joint.

