

Important: Please read this sheet before running your locomotive.

Many thanks for purchasing one of our **Graham Farish** Class 31 SOUND FITTED Diesel Locomotives. Please take the time to read through this sheet carefully before running your locomotive to ensure you get the most out of your model.

Decoder Info.

Decoder & Speaker Spec.

Decoder: Zimo MX659N18

CV1 Address: 03

Speed Steps: 28/128

Speaker: 0.7/1 Watt 8 Ohms 11 x 15mm

Please note: If this model is to be controlled with an analogue (DC) output controller Bachmann Europe PLC recommend the use of a controller with a smoothed output. If you intend to use a feedback type controller, or one with PWM (pulse width modulation) please consult the controller manufacturer before using it with this model.

Do not use with Electronic Track Cleaners.

For Best Results...

Please make sure your DCC system is set to run on 128 speed steps to obtain the very best results from this decoder.

Keeping the track, wheels and pick-ups clean are essential to ensure good electrical contact and will also contribute to the decoder working to it's best ability.

Please note: This model should be removed from the track if you are changing the address of another model with an E-Z Command Control Centre.

Loco Decoder Address.

This model is set with a default decoder address of 3.

Running on DC.

Your model is equipped with a **Zimo MX659N18** DCC Sound decoder but will operate on DC powered track producing movement & normal load running sounds and any other automatic and randomised sounds when power is applied.

Function List - Class 31

No.	Function/Sound	F Button <i>Suggested Setting</i>	Sound Type
0	Directional Lights	Latch	-
1	Engine Start / Sound (On / Off)	Latch	-
2	Brake (Non-Latching)	Trigger	Brake Sounds
3	Single Horn (Speed and Direction Related)	Trigger	Fixed Length
4	Two Tone Horn (Speed and Direction Related)	Trigger	Fixed Length
5	Light Engine	Latch	-
6	Engine Idle	Latch	Continuous Play
7	Speed Lock	Latch	-
8	Cold Start (F8 On before F1)	Latch	Continuous Play
9	Flange Squeal (Speed Related)	Latch	Continuous Play
10	Despatch Whistle	Trigger	Fixed Length
11	Buffering Up	Latch	Fixed Length
12	Coupling Up	Latch	Fixed Length
13	Compressor	Latch	Fixed Length
14	Spirax Valves	Latch	Continuous Play
15	Cooler Group Fan	Latch	Continuous Play
16	Primer	Latch	Continuous Play
17	Auto Wagon Buffering (F17 On / F5 Off Only)	Latch	-
18	On - Driver's Door Opening	Latch	Fixed Length
	Off - Driver's Door Closing	Latch	Fixed Length
19	Fade All Sounds	Latch	-
20	Directional Lights Off - No.1 End (Fan)	Latch	-
21	Directional Lights Off - No.2 End (Non-Fan)	Latch	-
22	"Right o' way"	Trigger	Fixed Length
23	"Going under"	Latch	Variable Length
24	Station Ambience	Latch	Variable Length
25	Detonators	Latch	Fixed Length
26	Shunt Mode	Latch	-
27	Volume Down	Trigger	-
28	Volume Up	Trigger	-



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