Class 45 Diesel Locomotive
Sound Fitted Information

> ### Important: Please read this sheet before running your locomotive.

Many thanks for purchasing one of our **Bachmann Branchline** Class 45 Sound Fitted 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: ESU 21MTC Loksound V5 DCC
CV1 Address: 03
Speed Steps: 28/128
Speaker: 8 Ohms, 40 x 20mm Tray Type

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.

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

Running on DC.
Your model is equipped with a ESU 21MTC Loksound V5 DCC sound decoder, this will still operate on DC powered track with directional lights and producing basic Prime Mover (engine) sounds, which will vary with speed, plus any other automated sounds.

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.

Useful Notes

F2. Loco Brake *(Trigger)*
F2 On - Slows the loco down whilst moving - if necessary to a stop. Releasing **F2** will allow the loco to return to its previous speed.

Brake sounds will accompany any use of the Loco Brake function key.

F5. Drive Hold *(Latch)*
Note: Locomotive will not stop until F5 is turned off
F5 On - Locks the speed at the point the F key is pressed (not necessarily the throttle value). This allows the throttle to be opened & closed in order to play the drive sounds more prototypically whilst maintaining a constant speed.
Turning **F5 Off** whilst moving will allow speed & sound to return to current throttle value.

F6. Coasting *(Latch)*
F6 On - Causes the sound of the engine revs to fall and the locomotive to coast automatically from any throttle position whilst not affecting the speed. During this time, the speed can still be adjusted if required without affecting the sound of the engine. This will continue until **F6** is turned Off.

F14. Uncoupling cycle *(Latch)*
On - A movement function to enable automatic uncoupling of tension-lock and knuckle couplings. Use F14 when you have positioned your train's coupling over the uncoupling ramp or magnet, and it will cause the locomotive to reverse to release the tension and allow the coupling to disengage.

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.

Function List - Class 45

No.	Function/Sound	F Button *Suggested Setting*	Sound Type
0	Directional Lights & Switch Sound	Latch	Single
1	**On** - Fuel Pump On - Warm Engine Start	Latch	Continuous
	On / Off - Fuel Pump On - Failed Engine Start	Latch	Single
	On / Off / On - Fuel Pump On - Cold Engine Start	Latch	Continuous
2	Brake (Function & Sound)	Trigger	Continuous
3	Single Horn (Playable)	Trigger	Continuous
4	Two Tone Horn	Trigger	Single
5	Drive Hold (Function & Sound)	Latch	-
6	Coasting (Function & Sound)	Latch	Continuous
7	Coupling Up & Brake Pipe Connect	Trigger	Single
8	Uncoupling, Brake Disconnect & Vac Destroyed	Trigger	Single
9	Flange Squeal	Latch	Continuous
10	Air Dump	Trigger	Single
11	Spirax Valve	Latch	Continuous
12	**On** - Guard's Whistle	Latch	Single
	Off - Driver's Responce	Latch	Single
13	Auxiliary 1	-	-
14	Auto Uncouple Cycle	Latch	-
15	**On** - Driver's Door Open	Latch	Single
	Off - Driver's Door Shut	Latch	Single
16	AWS Horn	Trigger	Single
17	AWS Bell	Trigger	Single
18	Windscreen Wipers	Latch	Continuous
19	Mute	**Latch**	-
	Volume - Cycles through 6 Levels	**Trigger**	-