



# Class 150 Diesel Multiple Unit

## SOUND FITTED Information

**Important: Please read this sheet before running your locomotive.**

Many thanks for purchasing one of our **Bachmann Branchline** SOUND FITTED Class 150 DMUs. Please take the time to read through this sheet carefully before running your DMU to ensure you get the most out of your model.

### Decoder Info.

#### Decoder & Speaker Spec.

Decoder: ESU Loksound V5DCC 21MTC

CV1 Address: 03

Speed Steps: 28/128

Speaker: 0.7/1 Watt 8 Ohm 20 x 40mm

#### 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 Loksound V5DCC 21MTC** 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.

**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.**

**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.

### 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.

A variety of brake squeal sounds are available by altering **CV165**.

**CV165 = 0:** Brake Squeal 1 (Default)

**CV165 = 1:** Brake Squeal 2

**CV165 = 2:** Brake Squeal 3

**CV165 = 3:** Brake Squeal 4

### F4. Horn (Trigger)

The characteristics of F4 Horn can be altered with **CV169**.

**CV169 = 0:** Horn is Playable

**CV169 = 1:** Plays a Single 'Toot'

**CV169 = 2:** Plays a Double Toot (Default)

### F6. Coasting (Latch)

**F6 On** - Causes the sound of the engine revs to fall and the locomotive to coast 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.

### F8. Coupling Sounds (Trigger)

The characteristics of F8 Coupling-up can be altered with **CV164**.

**CV164 = 0:** Screw link coupling

**CV164 = 1:** Buckeye coupling

**CV164 = 2:** Delner coupling

**CV164 = 3:** BSI coupling (Default)

### F14. Uncoupling (Latch)

**F14 On** - enables automatic uncoupling of tension-lock and knuckle couplings. Use F14 when you've positioned your train's coupling over an uncoupling ramp or magnet, and it will cause the locomotive to reverse to release the tension and allow the coupling to disengage.

### F17. AWS (Trigger)

The characteristics of F17 AWS can be altered with **CV163**.

**CV163 = 0:** Bell

**CV163 = 1:** Ping (Default)

## Function List - Class 150 DMU

No.	Function/Sound	F Button <i>Suggested Setting</i>	Sound Type
0	Lights - On/Off	Latch	Switch Sound
1	On - Warm Engine Start-up	Latch	Fixed Length
	On/Off - Failed Start-up	Latch	Fixed Length
	On/Off/On - Cold Engine Start-up	Latch	Fixed Length
2*	Brake	Trigger	Brake Sounds
3	Horn (Playable)	Trigger	Fixed Length
4*	Double Toot Horn	Trigger	Fixed Length
5*	Heavy Load	Latch	-
6*	Coasting (F5 Off)	Latch	Continuous
	Manual Notch Down ( <b>F21 On</b> )	Latch	Continuous
7*	Maximum Revs (F5 Off)	Latch	Continuous
	Manual Notch Up ( <b>F21 On</b> )	Latch	Continuous
8*	On - Coupling-up	Latch	Fixed Length
	Off - Un-coupling	-	-
9	Flange Squeal (Speed dependent)	Latch	Continuous
10	On - Carriage Door Open	Latch	Fixed Length
	Off - Carriage Door Closed	-	-
11	Spirax Valve	Latch	Continuous
12	On - Guard's Whistle	Latch	Fixed Length
	Off - Driver's Response Buzzer & Horn		
13	Compressed Air Let Off	Latch	Fixed Length
14	Un-coupling Cycle	Latch	-
15	Air Build Up	Latch	Fixed Length
16	Carriage Heating	Latch	Continuous
17*	AWS	Trigger	Fixed Length
18	On - Sound Fades Out	Latch	-
	Off - Sound Fades In	-	-
19	Mute	<b>Latch</b>	-
	Volume - Cycles through 6 levels	<b>Trigger</b>	-
20	Station Announcement	Latch	Variable Length
21*	Manual Notching - On/Off (See notes)	Latch	-
22	Sanding Valve	Latch	Continuous
23	Fire Bell Test	Latch	Continuous

### Notes.

**F6 / F7 with F21 On** - the engine rpm can be controlled by **F6 & F7**. It will decrease by one notch every time you turn **F6** On/Off and increase by one notch every time you turn **F7** On/Off.

While **F21** is 'on', you can still adjust the train speed using the throttle. This will allow both individual control over the diesel sound and throttle operation at any time.



Bachmann Europe PLC, Moat Way, Barwell, Leicestershire, LE9 8EY, England.

[www.bachmann.co.uk](http://www.bachmann.co.uk)