

SD085 - Class 90

F#	Spot Sound Description	Mode								
F0	Headlight/Rear Lights	T								
F1	Sound Enable/Engine Start	T								
F2	Multiple Horns (4)	M	F2a_Low_Short	F2b_High_Medium	F2c_Low_High	F2d_High_Low	UNUSED	UNUSED	UNUSED	UNUSED
F3	Multiple Horns Fancy (3)	M	F3a_Fancy_1	F3b_Fancy_2	F3c_Fancy_3	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED
F4	Brake	M								
F5	Cab Start Up	M								
F6	*Detonators	T								
F7	Spirax Valve	T								
F8	Doors Closing	T								
F9	AWS Warning Siren	M								
F10	Compressor	T								
F11	Wipers	T								
F12	**Slow Speed Rail Clack	T								
F13	Pantograph Arc	M								
F14	Flange Squeal	T								
F15	Cab Door Close	M								
F16	Coupling Engage	M								
F17	General Station Sounds	T								
F18	Passing at Speed	T								
F19	Guards Whistle	M								
F20	Air Release	M								
F21	Aux 1	T								
F22	Aux 2	T								
F23	Aux 3	T								
F24	Aux 4	T								
F25	Shunting Mode	T								
F26	Creep Mode	M								
F27	Dynamic Brake	M	M = Momentary Action							
F28	AFC Enable	T	T = Toggle On/Off							

For further operational notes, please see Page 2 overleaf.

Operational Notes:

*F6 Detonators only functions if the loco is in operation between SS5 - SS75. The detenation rate will increase/decrease depending on the loco speed.

**F12 Slow Speed Rail Clack - only functions if the loco is in operation between SS15 - SS25.

CV119 Function Masking Feature

Like in a range of HM7000 projects, the Class 90 and DVT projects also have an advanced Function masking feature, which will only play certain spot sounds from either the front or rear, depending on direction.

For CV values, please see mini table below:

CV119 = 0 (Class 90 Default)	CV119 = 1	CV119 = 2 (DVT Default)
Normal Profile	Motorised Profile	Non-motorised Profile

Please note: the default operation of all sounds will commence playback on the Class 90 when selected i.e F2/F3 Horns will sound irrespective on the set direction of tavel of the locomotive. For a more realistic operation when consisted or used in train mode, please change the value of CV119 =1.

Please refer to the main HM7000 Series Decoder Reference Manual for further information