

SD005 - Class 91

F#	Spot Sound Description	Mode								
F0	Headlight/Rear Lights	T								
F1	Sound Enable/Engine Start	T								
F2	Multiple Horns (4)	M	F2a_High_Short	F2b_Low_Medium	F2c_Low_Low_Short	F2d_6_Blasts_Short	UNUSED	UNUSED	UNUSED	UNUSED
F3	Multiple Horns Fancy (3)	M	F3a_Low_High_Medium	F3b_Low_High_Long	F3c_6_Low_Low_High_Long	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED
F4	Brake	M								
F5	Cab Start Up	M								
F6	*Detonators	T								
F7	Spirax Valve	T								
F8	**Mk4 Doors Open/Close	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	M								
F19	Guards Whistle	M								
F20	Air Release	M								
F21	White Headlights Off	T								
F22	Red Rear Lights Off	T								
F23	***Cab Light	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							

NOTES -

- *F6 Detonators only functions if the loco is in operation between SS5 - SS75. The detonation rate will increase/decrease depending on the loco speed.
- **F8 Mk4 Doors Open/Close work as a toggle operation i.e F8 Doors Open playback starts when enabled and the Doors Close sound is played when the function is disabled.
- ***F12 Slow Speed Rail Clack - only functions if the loco is in operation between SS15 - SS25
- ***F23 Cab Light only illuminates when the loco is stationary. It will automatically switch off when in motion and switch on again when the loco comes to rest.

For further info on the function masking feature, please see Page 2 overleaf.

CV119 Function Masking Feature

Like both MTU and Valenta Class 43 HST projects and the Class 800, the Class 91 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	CV119 = 1 (Class 91 Default)	CV119 = 2 (DVT Default)
Normal Profile	Motorised Profile	Non-motorised Profile

Please note by default, all sounds will commence realistic playback from both the Class 91 and DVT simultaneously i.e F2/F3 Horns will only sound from the correct end when running in a forwards direction.

Adding a value of 0 to either the Class 91 or DVT, will allow all spot sound playback to commence irrespective of loco direction.

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