

SD007 - Class 800 Diesel / Electric

F#	Spot Sound Description	Mode								
F0	Headlight/Rear Lights	T								
F1	Sound Enable/Engine Start	T								
F2	Multiple Horns (8)	M	F2a_1Burst_Hi	F2b_1Burst	F2c_1Burst_Long_Hi	F2d_1Burst_Lo	F2e_2Tone	F2f_2Tone_Long	F2g_2Tone_Lo_Hi	F2h_2Burst_Lo
F3	Multiple Horns Fancy (8)	M	F3a_Hi_Lo_Hi_Hi	F3b_Lo_Hi_Lo	F3c_Quick_Lo_Hi_Lo	F3d_Lo_Hi	F3e_Hi_Lo_Hi_Lo	F3f_Flat_Lo_Hi	F3g_Long_Lo_Hi_Lo_Hi	F3h_Quick_Lo_Hi_Lo
F4	Brake	M								
F5	<i>Engine mode select / transition (Electric Default)</i>	T								
F6	*Detonators	T								
F7	Air Conditioning	T								
F8	**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	T								
F17	General Station Sounds	T								
F18	Passing at Speed	M								
F19	Guards Whistle	M								
F20	Communications	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							

NOTES -

- *F6 Detonators only function if the loco is in operation between SS5 - SS75. The detonation rate will increase/decrease depending on the loco speed.
- **F8 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

CV119 Function Masking Feature

Like both of Class 43 HST projects, the Class 800 also has an advanced Function masking feature, which when enabled, will only prototypically play certain spot sounds from either the front or rear power car, depending on direction.
For CV values, please see mini table below:

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

Please note by default, all sounds will commence playback from both power cars, simultaneously, irrespective of loco direction.
Adding a value of 1 to the motorised power car and a value of 2 to the non-motorised power car will enable this advanced feature i.e F2 and F3 horns amongst others, will only be audible from the power car travelling forwards.

For further info on the Diesel and Electric Trigger Threshold CV's, please see Page 2 overleaf.

Diesel Mode Trigger Thresholds

Sound Play Configuration DIESEL Engines... Idle + 5 Notches... 5 Notch Diesel... Configuration... CV210 to CV219			
Idle			Applies to SS of < DTT1
210	Trigger Threshold 1	5	5 - 15 Applies when SS > DTT1 but < DTT2... Plays Notch 1
211	Trigger Threshold 1 Window	5	5 - 9 DTTW1... Forces Notch to increase from Idle to Notch 1 and then Decrease back to Idle
212	Trigger Threshold 2	20	20 - 30 Applies when SS > DTT2 but < DTT3... Plays Notch 2
213	Trigger Threshold 2 Window	5	5 - 14 DTTW2... Forces Notch to increase from Notch 1 to Notch 2 and then Decrease back to Notch 1
214	Trigger Threshold 3	45	40 - 50 Applies when SS > DTT3 but < DTT4... Plays Notch 3
215	Trigger Threshold 3 Window	5	5 - 14 DTTW3... Forces Notch to increase from Notch 3 to Notch 4 and then Decrease back to Notch 3
216	Trigger Threshold 4	65	65 - 70 Applies when SS > DTT4... Plays Notch 4
217	Trigger Threshold 4 Window	5	5 - 14 DTTW4... Causes Notch to increase from Notch 3 to Notch 4 and then Decrease back to Notch 3
218	Trigger Threshold 5	85	85 - 90 Applies when SS > DTT5... Plays Notch 5
219	Trigger Threshold 5 Window	5	5 - 14 DTTW5... Causes Notch to increase from Notch 4 to Notch 5 and then Decrease back to Notch 4

Electric Mode Trigger Thresholds

Sound Play Configuration ELECTRIC Locomotive... ELECTRIC LOCOMOTIVES... Engine Running Sound Playback...			
Automatic Idle			Applies to SS of > 0 but less than
220	ELECTRIC Trigger Threshold 1 (ETT 1)	3	1-127 Applies when SS > EET1 but < ETT2
221	ELECTRIC Trigger Threshold 2 (ETT 2)	20	1-127 Applies when SS > ETT2 but < ETT3
222	ELECTRIC Trigger Threshold 3 (ETT 3)	45	1-127 Applies when SS > ETT3 but < ETT4
223	ELECTRIC Trigger Threshold 4 (ETT 4)	65	1-127 Applies when SS > ETT4 but < ETT5
224	ELECTRIC Trigger Threshold 5 (ETT 5)	85	1-127 Applies when SS > ETT5

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