



Athearn SD40-2

Sound Decoder Function Assignments 2025 Production Run			
Function Key	Default Effect	Function Key	Default Effect
F0	Headlight/backup Light	F15	(Not Used)
F1	Bell	F16	(Not Used)
F2	Horn	F17	(Not Used)
F3	Short Horn ¹	F18	(Not Used)
F4	Dynamic Brakes ² or Straight to Idle ³	F19	(Not Used)
F5	Lighting Effect 1 ⁴	F20	(Not Used)
F6	Lighting Effect 2 ⁴	F21	(Not Used)
F7	Dimmer	F22	(Not Used)
F8	Mute	F23	"All Aboard" /Coach Doors (if equipped)
F9	(Not Used)	F24	(Not Used)
F10	(Not Used)	F25	(Not Used)
F11	Brake Set/Release ³	F26	Engine RPM Notch Up
F12	(Not Used)	F27	Engine RPM Notch Down
F13	Couple/Uncouple	F28	(Not Used)
F14	Half Speed & Momentum Override	Emergency Stop	Red Emergency Mars Light (if equipped)

- 1 - The short horn function can be changed to a grade crossing horn sequence by changing CV 37 to 0. If you would like to re-map the short horn function to another key using SoundTraxx's Flex-Map function mapping, CV 37 must also be set to 0 to prevent the short horn function from being activated with function key 3.
- 2 - On locomotives with Dynamic Brakes.
- 3 - On locomotives without Dynamic Brakes.
- 4 - If your locomotive's prototype is equipped with flashing ditch lights, they will flash when the horn button (F2) is depressed.
- 5 - Functional braking is not enabled by default