



Athearn Genesis FP45 / F45

| Sound Decoder Function Assignments ^{2025 Production Run} | | | |
|---|--|----------------|--|
| Function Key | Default Effect | Function Key | Default Effect |
| F0 | Headlight | F15 | Hand Brake |
| F1 | Bell | F16 | HEP Mode On/Off |
| F2 | Horn | F17 | Fuel Loading Sequence |
| F3 | Short Horn ¹ | F18 | General Service Sequence |
| F4 | Dynamic Brakes ² or Straight to Idle ³ | F19 | Straight to Idle |
| F5 | Lighting Effect 1 ⁴ | F20 | Steam Generator or Aux. HEP Generator On/Off |
| F6 | Lighting Effect 2 ⁴ | F21 | (Not Used) |
| F7 | Dimmer / Cab Chatter | F22 | (Not Used) |
| F8 | Mute | F23 | "All Aboard" /Coach Doors (if equipped) |
| F9 | Alternate Mixer (Half Volume) | F24 | Aux Lighting Effect (if equipped) |
| F10 | Straight-to-8 & Sander Valve | F25 | Aux Lighting Effect (if equipped) |
| F11 | Brake Set/Release ⁵ | F26 | Engine RPM Notch Up |
| F12 | Brake Select | 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 2.
- 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; to enable, see "Enabling Tsunami2 Braking Rates on your Locomotive" in the manual that came with your model.