



Econami Digital Sound Decoder
Electric Quick Start Guide
Software Release 1.3**

** Previous software versions included

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All Aboard!

Overview

Congratulations on purchasing your SoundTraxx Econami Digital Sound Decoder for electric locomotives and trolleys! Econami is designed to further enhance your model railroading experience at an affordable cost. This quick start guide summarizes operating your decoder's default settings without adjusting CVs.

For details regarding installation and adjusting CV settings to customize operation, refer to the following documentation:

- The ***Econami Installation Guide*** provides step-by-step installation instructions and effective strategies to receive high quality sound.
- The ***Econami Electric User's Guide*** provides in-depth information regarding CV settings, customizing operation, and troubleshooting.
- The ***Econami Electric Technical Reference*** offers a chronological list of all included CVs and details showing each adjustable setting.
- The ***Econami Electric Sound Selections*** document serves as a reference for adjusting sound effects.

To download all user documentation, visit www.soundtraxx.com/manuals.php.



Default Operation

Using Econami for Electric

Your Econami has been preprogrammed so that you can activate various effects and features right away. This section addresses the automatic sound effects enabled by default and describes using function keys to activate the decoder's default functions.

Note: *To activate automatic sounds after the decoder receives power, you must turn on F4 to extend the pantograph and connect to the overhead wire. Turning off F4 will retract the pantograph and mute all automatic sound effects.*

Note: *Analog mode operation has been disabled to enable DCC as Econami's default power source. If only a DC power source is available, refer to the **Econami Electric User's Guide** and **Econami Electric Technical Reference** to enable analog mode.*

Automatic Sounds

Automatic sound effects will become active when the decoder receives power and the pantograph is extended (F4). The automatic sound effects enabled by default are defined below:

Contactors Camshaft:	The contactor camshaft changes its position at fixed speed points when F4 is turned on/the pantograph is extended.
Air Compressor:	When F4 is turned on/the pantograph is extended, the air compressor cycles at random intervals to simulate air pressure building and being released.
Poppet Valve:	The sound of the poppet valve plays at random intervals in the background when F4 is turned on/the pantograph is extended.
Blower Fans:	The blower fans bluster in the background when F4 is turned on/the pantograph is extended.

Activating Functions

Select address 3 using your cab or command station, and refer to the following descriptions of each default function to activate effects.

Note: *Pressing function keys will toggle functions F0-F28 "on" or "off."*

F0: Headlight Backup Light	Turn on F0 in the forward direction to illuminate the headlight. Reverse direction to turn off the headlight and turn on the backup light. Turn off F0 to turn off the headlight/backup light.
F1: Bell	Turn on F1 to ring the bell. Turn off F1 to stop the bell from ringing.
F2: Airhorn	Turn on F2 to blow the airhorn. Turn off F2 to stop the airhorn blast.
F3: Short Airhorn	Press F3 to blow the "short" airhorn; the airhorn blast will be the same length every time you press the function key.
F4: Pantograph Extend Pantograph Retract	Turn on F4 to extend the pantograph and activate all automatic sounds. Turn off F4 to retract the pantograph and mute automatic sounds.
F5: Stop Request Bell	Turn on F5 to ring the stop request bell before arriving at the station.
F6: Pneumatic Doors	Turn on F6 to open the pneumatic doors. Turn off F6 to close the doors.



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F7: Dimmer	Turn on F7 to dim all active lighting outputs. Turn off F7 to return all brightness levels to the prior settings.
F8: Mute	Turn on F8 to mute all sound effects. Turn off F8 to return all volume levels to the prior settings.
F9: Grade-Crossing Signal	Turn on F9 to issue a grade-crossing signal.
F10: Trolley Bell	Turn on F10 to issue the single “ding!” of the trolley bell.
F11: Brake Squeal Brake Release	Set the throttle to speed-step 1, and turn on F11 to apply the brakes. The brakes will squeal until you decelerate to a stop or turn off F11. Reduce the throttle to zero to stop the brakes from squealing. While stopped, turn off F11 to release the brakes before departing.
F12: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F12.
F13: Coupler Coupler Release	Turn on F13 to engage the coupler. Turn off F13 to open the knuckle and separate the glad hands.
F14: Switching Mode	Turn on F14 to reduce the throttle setting by 50%. Turn off F14 to resume the prior speed step.
F15: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F15.
F16: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F16.
F17: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F17.
F18: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F18.
F19: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F19.
F20: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F20.
F21: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F21.
F22: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F22.
F23: “All Aboard!”/ Coach Doors*	Turn on F23 when the locomotive is stopped to issue the conductor’s “all aboard!” announcement and close the coach doors.
F24: FX3 Function Output	Turn on F24 to illuminate FX3 lighting. Turn off F24 to turn off FX3.
F25: FX4 Function Output	Turn on F25 to illuminate FX4 lighting. Turn off F25 to turn off FX4.
F26: FX5 Function Output**	Turn on F26 to illuminate FX5 lighting. Turn off F26 to turn off FX5.
F27: FX6 Function Output**	Turn on F27 to illuminate FX6 lighting. Turn off F27 to turn off FX6.
F28: Not Assigned	Refer to the <i>Econami Electric User’s Guide</i> to map an effect to F28.

**Available on select formats

Direction Key: Pressing the direction key will reverse locomotive/trolley direction.

Emergency Stop Button: Pressing the emergency stop button will issue the emergency brake application sound effects and immediately bring your train to a stop.

* Not included in software releases prior to version 1.3



Customizing Econami

Summary of User-Adjustable Features

Econami is for users seeking a versatile decoder capable of simulating a range of prototypical scenarios. Although this quick start guide does not address configuring CVs, you can adjust the decoder's settings to fit an extensive variety of operating preferences. For instance, you can select from an array of prototype-specific sound effects, configure lighting effects and features, and customize motor control.

For all information regarding CV configuration, visit www.soundtraxx.com/manuals.php and refer to the ***Econami Electric User's Guide*** and ***Econami Electric Technical Reference***.

You can adjust CVs to customize the following features and settings included in Econami, which supports Operations Mode and Service Mode programming:

- Selectable sound effects, including 16 airhorns, six bells, two air compressors, and three couplers
- Auto-start and pantograph interlock feature for prototypical operation
- F11 braking for prototypical brake application with brake squeal sound effects
- Grade-Crossing Logic to automatically flash ditch lights and play the bell when issuing a grade-crossing signal
- Adjustable master volume level and individual sound effect volume levels
- Adjustable 7-band equalizer to optimize tone and speaker performance
- Up to six independent lighting outputs for Hyperlight effects and features, such as ditch lights, warning beacons, and brightness control
- Flex-Map function mapping technology for reassigning function keys F0-F28 to any effect, controlling the directionality of lighting outputs, configuring automatic effects, and mapping any effect to the emergency stop button
- Hyperdrive2 advanced motor control for refined low-speed operation
- Acceleration and deceleration momentum rate configuration for prototypical starting and stopping
- Linear (default), 3-point, and 28-point speed curve configurations for custom throttle control
- Primary ("short") and extended ("long") addressing to assign the locomotive's address from 1 to 9,999
- Advanced consisting to lash up multiple units and run them together
- DCC and DC (analog) operating modes



Support

90-Day “Safety-Net” Service Warranty

Each SoundTraxx Digital Sound Decoder is tested thoroughly before it is shipped and warranted to be in good working order and free of manufacturing defects. However, in the event that a mistake does occur during installation, SoundTraxx will cover the repair under our Safety-Net Service Warranty. If during the first ninety (90) days you damage your Digital Sound Decoder or it fails to operate, SoundTraxx will repair or replace the system free-of-charge if:

- The original sales receipt showing purchase from an authorized SoundTraxx dealer accompanies the decoder. Receipt must show purchase date to be within the last 90 days. Your original receipt will be returned with your repaired unit.
- There is no damage resulting from unauthorized repairs or modifications. This includes, but is not limited to:
 - Removing the shrink tubing from the decoder
 - Drilling or enlarging circuit board holes
 - Cutting or trimming the circuit board
- The Digital Sound Decoder is returned properly packaged, postage paid and insured; SoundTraxx is not responsible for product lost or damaged in transit.

Limits of Liability

The foregoing shall constitute the sole and exclusive remedy of any owner of this product for breach of warranty including the implied warranties of merchantability and fitness. IN NO EVENT SHALL SOUNDTRAXX BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES OR FOR THE REPRESENTATIONS OF RETAIL SELLERS.

See the “Support” section on our website at www.soundtraxx.com for complete warranty information.

Contacting Support

Our service department is available Monday-Friday, from 9am to 5pm (Mountain Time).

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