



Econami Digital Sound Decoder

Steam 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 steam locomotives! 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 Steam User's Guide*** provides in-depth information regarding CV settings, customizing operation, and troubleshooting.
- The ***Econami Steam Technical Reference*** offers a chronological list of all included CVs and details showing each adjustable setting.
- The ***Econami Steam 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 Steam

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: *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 Steam User's Guide** and **Econami Steam Technical Reference** to enable analog mode.*

Automatic Sounds

Automatic sound effects will become active when the decoder receives power; the automatic sound effects enabled by default are defined below:

Auto-Exhaust:	2-cylinder exhaust for a light steam locomotive is active by default. The chuff cadence is automatically adjusted in response to motor speed.
Side Rod Clank:	The "clanks" and "clunks" of the side rod occur with the exhaust chuff.
Airpump:	The airpump sound effect simulates air pressure being maintained in the reservoir during operation. The pump cadence will revert to its most rapid setting every time you engage the coupler and every third time you apply the brake function.
Blower:	The blower simulates draft being maintained near the exhaust nozzle in the smokebox during operation.

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 Dynamo	Turn on F0 in the forward direction to illuminate the headlight and spool up the dynamo. Reverse direction to turn off the headlight and turn on the backup light. Turn off F0 to turn off the headlight/backup light and fade the dynamo to silence.
F1: Bell	Turn on F1 to ring the bell. Turn off F1 to stop the bell from ringing.
F2: Whistle	Turn on F2 to blow the whistle. Turn off F2 to stop the whistle blast.
F3: Short Whistle	Press F3 to blow the "short" whistle; the whistle blast will be the same length every time you press the function key.
F4: Cylinder Cocks	Turn on F4 to purge the condensed water from the cylinder.
F5: Drifting Mode Enable	Turn on F5 to mute the exhaust chuff and amplify the side rod clank.
F6: Drifting Mode Disable	Turn on F6 to return the exhaust chuff and side rod clank volume levels to the prior settings.
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.



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F9: Grade-Crossing Signal	Turn on F9 to issue a grade-crossing signal.
F10: Blowdown	Turn on F10 to open the blowdown valve and blow out the sediment buildup. Turn off F10 to close the valve.
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 Steam 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 Steam User's Guide</i> to map an effect to F15.
F16: Water Stop	When the locomotive is stopped, turn on F16 to fill the tender with water. Turn off F16 to stop filling the tender.
F17: Not Assigned	Refer to the <i>Econami Steam User's Guide</i> to map an effect to F17.
F18: Not Assigned	Refer to the <i>Econami Steam User's Guide</i> to map an effect to F18.
F19: Not Assigned	Refer to the <i>Econami Steam User's Guide</i> to map an effect to F19.
F20: Not Assigned	Refer to the <i>Econami Steam User's Guide</i> to map an effect to F20.
F21: Not Assigned	Refer to the <i>Econami Steam User's Guide</i> to map an effect to F21.
F22: Not Assigned	Refer to the <i>Econami Steam 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 Steam User's Guide</i> to map an effect to F28.

**Available on select formats

Direction Key: Pressing the direction key will issue the sound of the Johnson bar changing position and reverse locomotive 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 Steam User's Guide*** and ***Econami Steam 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 whistles, six bells, four exhaust chuffs, four dynamos, four airpumps, and three couplers
- 2-cylinder, 3-cylinder, and articulated exhaust selections
- Wheel-slip selections for articulated exhaust
- Dynamic Digital Exhaust for adjusting chuff and side rod clank in response to acceleration and deceleration
- F11 braking for prototypical brake application with brake squeal sound effects
- 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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