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### Kato 22-251-1

# Kato N Gauge Sound Card Glacier Express GE4/4-III (Model 22-251-1) Instruction Manual

Model: 22-251-1

## INTRODUCTION

This manual provides essential instructions for the proper setup, operation, and maintenance of your Kato N Gauge Sound Card Glacier Express GE4/4-III, Model 22-251-1. This sound card is designed to enhance your railway model experience by synchronizing sound effects with the acceleration and deceleration of your model train, providing a realistic operational feel.

Kato is a renowned manufacturer of railway models, committed to producing realistic and high-quality products for enthusiasts worldwide. This sound card is a "sound synchronized" type, featuring a "controller priority mode" writing function for advanced control.

## SETUP

Before using the sound card, ensure it is correctly installed into a compatible Kato Sound Box or DCC system. Refer to the specific instructions provided with your Sound Box or DCC controller for detailed installation procedures. The sound card is designed for integration with systems that support sound synchronized operation.

**Important:** Always ensure the power to your railway layout is off before installing or removing the sound card to prevent damage to the unit or your system.

## OPERATING INSTRUCTIONS

The Kato N Gauge Sound Card Glacier Express GE4/4-III offers various functions to enhance your model railway experience. The following sections detail the use of the function buttons and the Direct Control Mode.

### Function Buttons (GE4/4-III Glacier Express)

The sound card features several function buttons, each controlling a specific sound or action. Refer to the diagram below for button identification and the table for their respective functions.

**Image Description:** This image displays a diagram of the Kato Sound Card for the GE4/4-III Glacier Express. It shows a schematic

representation of the sound card with six numbered sections, each corresponding to a specific function. These functions are labeled as Horn, Door/In-Car Announcement, Brake/Curve, Coupler/Tunnel, Coasting, and Pantograph/Rack Rail. The diagram helps users identify which button or control corresponds to each function.

Function	Description
<b>1. Horn</b>	Plays a horn sound for as long as the button is pressed. The sound can be changed. To change the sound, press and hold the button for 2 seconds. (Single Horn, Double Horn, "Allegra"). Press and hold Function Buttons #1 & #2 at the same time until the "Electr/Power" light begins to flash. Pressing #1 again will select the desired horn sound. Once selected, press #2 to confirm. If using a Sound Box, press #2 to select the horn sound.
<b>2. Door / In-Car Announcement</b>	When stationary, plays sounds of doors opening/closing. When the train is moving, a sound can be repeated as many times as the button is pressed. In Motion: Press the button to receive two simulated in-car announcements. Stationary: Door opening/closing announcements.
<b>3. Brake / Curve</b>	When in motion, engages a Curve Squeal sound that will continue until the locomotive comes to a stop or the button is pressed again.
<b>4. Coupler / Tunnel</b>	When in motion, press to play sounds of couplers connecting and releasing. When in motion: Engages the sound of the train moving through a tunnel that will continue until the train comes to a stop, or by pressing the button again.
<b>5. Coasting</b>	(A) In motion: Engages a motor sound that will decrease gradually. (B) In motion: Engages a motor sound that will increase gradually. (C) Pressing this button will disengage the sound of the engine. This will stop the engine sound.
<b>6. Pantograph / Rack Rail</b>	(A) Pantograph: Pressing this button will start the sound of the pantograph lowering and the blower shut off. (B) Rack Rail: Pressing this button will start the sound of the rack rail.

## Direct Control Mode

With the feature of Direct Control Mode, you can change the functionality of this sound card to the more prioritized synchronized mode of train movement/motor. Press and hold both buttons #5 and #6. Track power will be cut during this mode. This sound card will operate more directly in response to the power pack throttle and the throttle will directly control the speed of the train. By pressing and holding the button #5 and #6 again, or pressing the EJECT button, the sound mode will be returned to its normal synchronized mode with the momentum. Once this card is inserted in your Soundbox, the "Direct Control Mode" will automatically be activated on the Soundbox and will function with all other Sound-Synchronized Sound Cards.

## Emergency Stop Function

Pressing the EJECT button when in motion makes the train perform an emergency stop. When power is restored the sync light will flash and the throttle will be disabled. To recover, set the throttle to zero and press the EJECT button again. The train will not regain movement function until the throttle has been reset to the zero position.

**NOTE:** After using this card in your Sound Box, it will retain this Emergency Stop function in the future regardless of what locomotive or Sound Card you are using.

## MAINTENANCE

The Kato N Gauge Sound Card is a delicate electronic component. To ensure its longevity and optimal performance:

- Keep the sound card clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the card to extreme temperatures or humidity.
- Handle the card by its edges to prevent damage to the electronic components or connectors.
- Do not attempt to disassemble the sound card, as this will void any potential warranty and may cause irreparable damage.

## TROUBLESHOOTING

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If you encounter issues with your sound card, consider the following common troubleshooting steps:

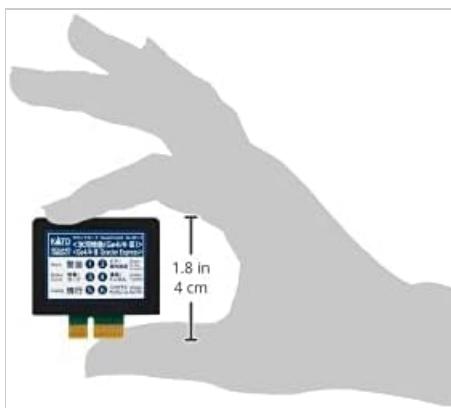
- **No Sound:** Ensure the sound card is properly seated in its slot and that all connections to your Sound Box or DCC system are secure. Verify that the power supply to your system is adequate.
- **Incorrect Sounds:** Check if the correct sound card is installed for your locomotive model. If using a Sound Box, ensure it is configured for the GE4/4-III Glacier Express sound card.
- **Intermittent Operation:** Inspect the card for any visible damage or debris on the connectors. Ensure your power pack or DCC controller is functioning correctly.
- **Emergency Stop Issues:** If the emergency stop function is not resetting, ensure the throttle is set to zero before pressing the EJECT button again.

For persistent issues, consult the manual for your Sound Box or DCC system, or contact Kato customer support.

## SPECIFICATIONS

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<b>Model Number</b>	22-251-1
<b>Brand</b>	Kato
<b>Product Dimensions</b>	5.71 x 3.19 x 0.47 inches (14.5 x 8.1 x 1.2 cm)
<b>Item Weight</b>	0.704 ounces (20 grams)
<b>ASIN</b>	B07BBTT1VC
<b>Manufacturer</b>	KATO



**Image Description:** This image shows the physical Kato N Gauge Sound Card, held in a hand for scale. A measurement indicator points to the height of the card, indicating it is approximately 1.8 inches (4 cm) tall. This provides a visual reference for the compact size of the sound card.

## WARRANTY AND SUPPORT

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Kato products are manufactured to high standards. For warranty information and customer support, please refer to the official Kato website or contact your authorized retailer. Keep your proof of purchase for any warranty claims. For further assistance or technical inquiries, please visit the [Kato Official Website](#) or consult your local hobby shop.

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