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Kato 10-2096

KATO 10-2096 N Gauge E3 Series 2000 Series Yamagata Shinkansen Tsubasa Model Train Instruction Manual

7-Car Set, New Painted Color

1. Introduction

This manual provides essential information for the safe and proper setup, operation, and maintenance of your KATO 10-2096 N Gauge E3 Series 2000 Series Yamagata Shinkansen Tsubasa 7-car model train set. Please read these instructions carefully before using the product to ensure optimal performance and longevity.

2. Safety Information

- This product is a railway model and is not intended for children under 14 years of age without adult supervision.
- Keep away from sources of excessive heat and moisture.
- Do not use abrasive chemicals for cleaning. Wipe with a soft, dry cloth only.
- Ensure the power supply is disconnected before performing any maintenance or assembly.
- The railroad model system provides power from the rails. This product does not use batteries or fuel for driving or lighting.

3. Package Contents

Verify that all items are present in your package:

- E3 Series 2000 Yamagata Shinkansen Tsubasa 7-Car Set
- 1 x Screwdriver for light off switch
- 1 x Destination indicator sticker sheet



Image: The complete 7-car KATO E3 Series 2000 Yamagata Shinkansen Tsubasa set, neatly arranged in its protective packaging tray.

4. Setup

4.1 Track and Power Connection

1. Assemble your N Gauge track layout on a stable, flat surface.
2. Connect your DC power pack (sold separately) to the track feeder. Ensure the power pack is switched off before connecting.

4.2 Train Assembly and Details

1. Carefully remove each car from its packaging.
2. Place the cars onto the track, ensuring all wheels are properly seated on the rails.
3. The E311 (No. 11 car) is equipped with a front car coupling mechanism, allowing it to be combined with other compatible train sets (e.g., Hayabusa, sold separately).
4. Apply the destination indicator stickers as desired. Refer to the sticker sheet for placement options.

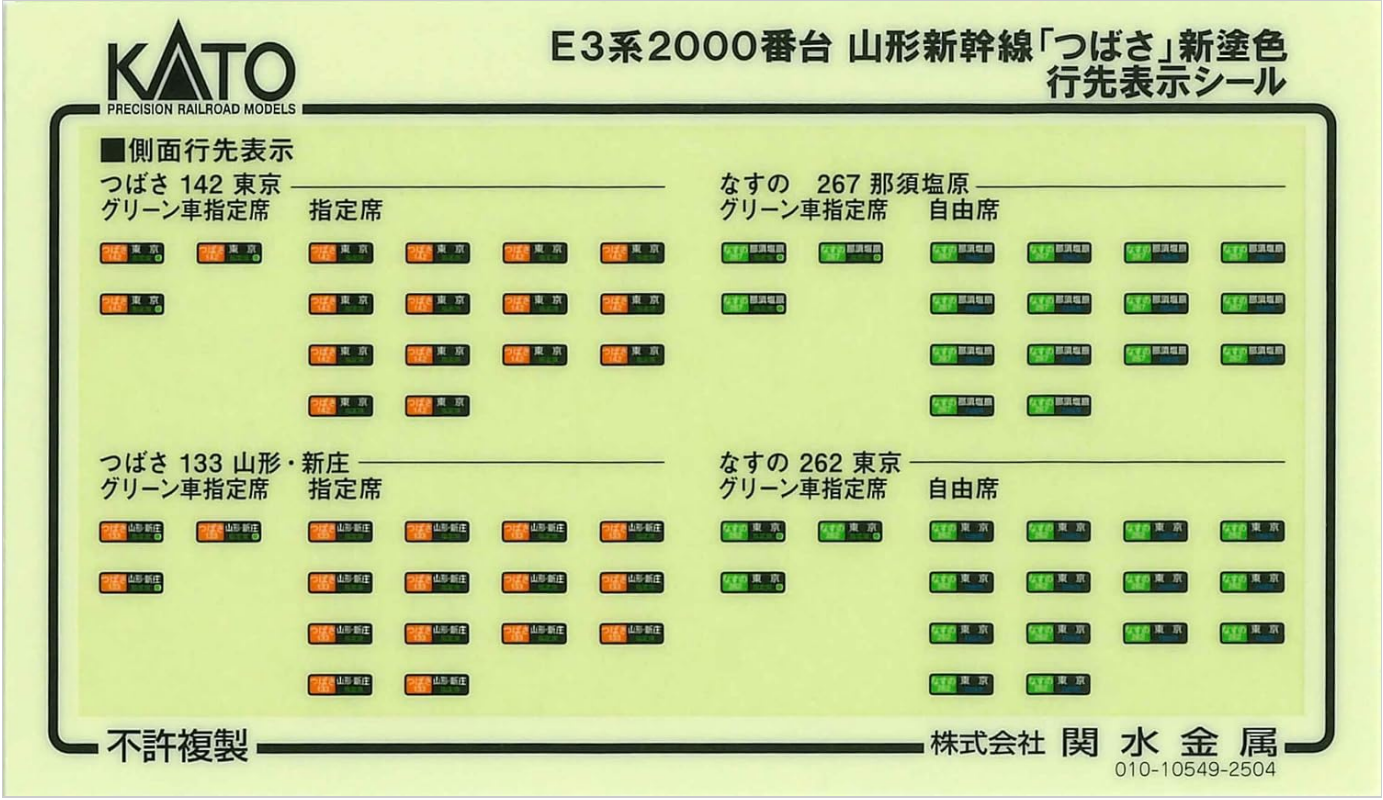


Image: A sheet of destination indicator stickers for various routes and car types, to be applied to the model train cars.

5. Operating Instructions

5.1 Basic Operation

1. Once the train is on the track and the power pack is connected, slowly increase the power on your DC controller. The train will begin to move.
2. Adjust the speed using the power pack's control knob.
3. Use the direction switch on your power pack to change the train's direction of travel.

5.2 Lighting Features

- The E3 Series 2000 Tsubasa features operational head and tail lights. These lights illuminate automatically based on the direction of travel.
- The No. 11 car (E311-2010) is equipped with a light off switch. Use the provided screwdriver to access and operate this switch if you wish to turn off the lights on this specific car, particularly when coupling with another train set.



Image: A side-front view of the KATO E3 Series 2000 Tsubasa model train, showcasing its distinctive purple and orange livery, running on a model railway track.



Image: A direct frontal view of the KATO E3 Series 2000 Tsubasa model train, highlighting its illuminated headlamps and the detailed front design.

5.3 Coupling Mechanism

The E311 (No. 11 car) includes a front coupling mechanism designed for connecting to other N Gauge Shinkansen sets, such as the E5 Series Hayabusa. This allows for realistic recreation of combined train operations. The intermediate

couplers between cars are diaphragm couplers, providing a close and realistic appearance.

6. Maintenance

6.1 Cleaning

- Regularly wipe the train cars with a soft, dry cloth to remove dust and fingerprints.
- Do not use harsh chemicals, solvents, or abrasive cleaners, as these can damage the paint and plastic components.
- Clean the wheels and track periodically to ensure good electrical contact and smooth operation. Use a specialized track cleaner or a soft cloth with a small amount of isopropyl alcohol for the rails.

6.2 Storage

When not in use, store the model train set in its original packaging or a suitable storage case to protect it from dust, physical damage, and environmental factors. Keep it away from direct sunlight, high temperatures, and high humidity.

7. Troubleshooting

- **Train does not move:**
  - Check if the power pack is turned on and properly connected to the track.
  - Ensure all train wheels are correctly seated on the rails.
  - Clean the track and train wheels to ensure good electrical contact.
- **Lights are not working:**
  - Verify the train is receiving power and moving.
  - Check the direction of travel; head/tail lights illuminate based on direction.
  - If only the No. 11 car's lights are off, check the light off switch using the provided screwdriver.
- **Erratic movement or stalling:**
  - Clean the track and train wheels.
  - Ensure track sections are securely joined and level.
  - Check for any obstructions on the track.

8. Specifications

Model Number	10-2096
Brand	Kato
Scale	N Gauge
Train Type	E3 Series 2000 Yamagata Shinkansen Tsubasa
Set Configuration	7-Car Set
Motor	Slotless motor for smooth and quiet ride
Couplers	Intermediate: Diaphragm coupler; Front (E311): Coupling mechanism
Lighting	Head/Tail lights (directional); Light off switch on E311 (No. 11)

Wheels	Features disc brake representation
Material	Plastic
Additional Features	New colourway, large side displays, red pantograph, black side target display

9. Warranty and Support

For warranty information or technical support, please refer to the official KATO website or contact your authorized KATO retailer. Keep your proof of purchase for any warranty claims.

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