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› Kato N Scale NW2 at&SF #2414 Diesel Locomotive Instruction Manual

Kato 176-4376

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Model Number: 176-4376

1. INTRODUCTION

Thank you for purchasing the Kato N Scale NW2 at&SF #2414 Diesel Locomotive. This manual provides essential information for the proper setup, operation, and maintenance of your model. Please read these instructions carefully to ensure safe and enjoyable use of your locomotive.

2. PRODUCT OVERVIEW

The Kato N Scale NW2 at&SF #2414 is a highly detailed model diesel locomotive designed for N scale model railway layouts. It features precision engineering for smooth operation and includes several advanced features:

- **Detailed Replication:** Each rivet and prototype detail is replicated with pinpoint precision.
- **Performance:** Designed for low-speed, high-power pulling capabilities.
- **Lighting:** Equipped with directional Golden White LED headlights and illuminated preprinted numberboards.
- **Cab Interior:** Sophisticated lightpiping ensures the visible cab interior remains free of lighting equipment.
- **Wheels:** Features low profile wheels for realistic appearance and operation.
- **Couplers:** Includes body-mounted Kato magnetic knuckle couplers.
- **DCC Friendly:** Designed to be DCC friendly, compatible with drop-in decoders such as Digitrax DN123K3 or Train Control Systems K3D4.



Image 2.1: The Kato N Scale NW2 at&SF #2414 Diesel Locomotive, showcasing its detailed design and features.

3. SETUP

3.1 Unpacking

Carefully remove the locomotive from its packaging. Retain all packaging materials for future storage or transport. Inspect the locomotive for any visible damage. If damage is found, contact your retailer immediately.

3.2 Track Preparation

Ensure your N scale track is clean and properly laid on a flat, stable surface. Dirty tracks can lead to poor electrical contact and erratic operation.

3.3 Power Connection

Connect your N scale power pack or DCC system to the track according to the manufacturer's instructions. Verify that the power supply is set to the correct voltage for N scale operation.

3.4 DCC Decoder Installation (Optional)

This locomotive is DCC friendly. To install a DCC decoder (e.g., Digitrax DN123K3 or Train Control Systems K3D4), carefully remove the locomotive shell as per the decoder manufacturer's instructions. Insert the decoder into the designated socket. Reattach the shell securely. Refer to your decoder's manual for specific programming instructions.

4. OPERATING

4.1 Placing on Track

Gently place the locomotive on the track, ensuring all wheels are correctly seated on the rails. Double-check that the

couplers are aligned if connecting to other rolling stock.

4.2 Powering On and Speed Control

If using a DC power pack, slowly increase the throttle to begin movement. For DCC systems, select the locomotive's address and use the throttle to control speed and direction. The locomotive is designed for smooth low-speed operation.

4.3 Directional Lighting

The locomotive features directional Golden White LED headlights. These lights will illuminate in the direction of travel. Illuminated numberboards will also be active.

4.4 Coupling Cars

The locomotive is equipped with Kato magnetic knuckle couplers. To couple, gently push the locomotive and car together until the couplers engage. Ensure they are fully connected before operating the train.

5. MAINTENANCE

5.1 Cleaning

Regular cleaning is crucial for optimal performance. Use a soft, dry cloth for light dusting of the locomotive body. For spot cleaning, use a slightly damp cloth with mild soap, then wipe dry immediately. Avoid harsh chemicals or abrasive materials.

5.2 Wheel and Track Cleaning

Periodically clean the locomotive's wheels and your track with a specialized track cleaning fluid and cloth. Dirt and grime on wheels and rails can significantly impair electrical pickup and running performance.

5.3 Lubrication

Refer to specialized model train lubrication guides for appropriate lubrication points and frequency. Use only lubricants specifically designed for model trains to avoid damage to plastic components.

6. TROUBLESHOOTING

If you encounter issues with your locomotive, refer to the following common problems and solutions:

- **Locomotive Does Not Run:**

- Check all power connections from the power pack/DCC system to the track.
- Ensure the track and locomotive wheels are clean.
- Verify the power pack/DCC system is turned on and functioning correctly.
- If using DCC, confirm the correct locomotive address is selected.

- **Erratic Operation or Stalling:**

- Clean track and wheels thoroughly.
- Check for any debris on the track or in the locomotive's mechanism.
- Ensure all track sections are properly joined and making good electrical contact.

- **Derailment:**

- Inspect track for uneven joints, kinks, or foreign objects.
- Ensure all locomotive wheels are properly gauged and seated on the rails.
- Check for excessive speed in curves or through turnouts.

• **Lights Not Working:**

- Verify the locomotive is receiving power.
- Check for correct direction of travel (lights are directional).
- If using DCC, ensure light functions are enabled and correctly mapped.

7. SPECIFICATIONS

Brand	Kato
Model Number	176-4376
Scale	N Scale
Material	Plastic
Color	Blue
Features	Directional Golden White LED Headlights, Illuminated Numberboards, DCC Friendly, Kato Magnetic Knuckle Couplers, Low Profile Wheels, Sophisticated Lightpiping
Recommended Use	Model Railway Layouts, Display
Product Care	Light Dusting, Spot Clean

8. WARRANTY AND SUPPORT

Kato products are manufactured to high standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Kato USA website. If you require technical assistance or have questions not covered in this manual, please contact Kato customer support directly. For further information and updates, you may visit the official Kato USA website:www.katousa.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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