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### Piko 52449 Expert FS D141.1003

# Piko 52449 Expert FS D141.1003 Diesel Locomotive User Manual

Model: 52449 Expert FS D141.1003 | Brand: Piko

## 1. INTRODUCTION

Thank you for choosing the Piko 52449 Expert FS D141.1003 Diesel Locomotive. This model is a meticulously crafted replica, designed for enthusiasts of model railways. This manual provides essential information for the proper setup, operation, and maintenance of your locomotive to ensure a long-lasting and enjoyable experience.

The D.141 series locomotives were a significant part of the Italian State Railways (FS) fleet, known for their robust design and versatility. Piko's Expert series brings this historical accuracy to your model railway layout with fine details and advanced features.



Foto: Paolo Mayer

*Figure 1: The Piko 52449 Expert FS D141.1003 Diesel Locomotive model. This image displays the locomotive with a dark green body, yellow handrails, and a red buffer beam. It is shown on a railway track, connected to a freight car, highlighting its detailed construction and realistic appearance.*

## 2. SAFETY INFORMATION

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Please read all safety instructions carefully before operating the locomotive. Failure to follow these instructions may result in injury or damage to the product.

- **Warning:** This product is not suitable for children under 3 years of age due to the risk of swallowing small parts.
- This item is not a toy and is intended for modeling use by experienced hobbyists.
- Always disconnect power to the track before placing or removing the locomotive.
- Avoid exposing the model to extreme temperatures, direct sunlight, or high humidity.
- Handle the locomotive with care to prevent damage to delicate parts.

## 3. SETUP AND INITIAL PREPARATION

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Before operating your Piko D141.1003 locomotive, follow these steps for proper setup:

1. **Unpacking:** Carefully remove the locomotive from its packaging. Retain the original packaging for future storage or transport.
2. **Inspection:** Visually inspect the locomotive for any signs of damage during transit. Ensure all parts are securely attached.
3. **Track Placement:** Place the locomotive gently on a clean, powered model railway track. Ensure all wheels are correctly seated on the rails.
4. **Decoder Installation (Optional):** The locomotive is equipped with a PLUX22 interface (NEM 658) for easy digital decoder installation. If you intend to operate the locomotive digitally, refer to your decoder's instructions for installation into the PLUX22 socket. This enables advanced functions like digitally switchable cab lighting.
5. **Buffer Details:** The model includes assorted parts for precise buffer beam detailing. Attach these components according to the included diagrams for enhanced realism.
6. **Coupling:** The locomotive features a NEM shaft and close coupling mechanism. Ensure compatible rolling stock is used for secure connections.

## 4. OPERATING INSTRUCTIONS

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This section details the operation of your Piko D141.1003 Diesel Locomotive.

### 4.1 Analog Operation (DC - Gleichstrom)

- Connect your DC power pack to the track.
- Gradually increase the voltage to start the locomotive.
- The locomotive features a white/red light change depending on the direction of travel. The headlights will illuminate white in the direction of travel and red at the rear.
- To change direction, briefly cut the power and then reapply it, or use the direction switch on your power pack.

### 4.2 Digital Operation (with PLUX22 Decoder)

If a PLUX22 digital decoder has been installed, you can access additional functions:

- Refer to your digital command station and decoder manual for specific operating procedures.
- The white/red light change function will be controlled digitally.
- Digitally switchable cab lighting is available with a compatible PLUX22 decoder, allowing you to turn the interior cab lights on or off via your digital controller.
- Additional sound or function features may be available depending on the installed decoder.

## 5. MAINTENANCE AND CARE

Regular maintenance ensures the longevity and optimal performance of your locomotive.

- **Cleaning:** Gently clean the locomotive body with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but avoid excessive moisture. Do not use harsh chemicals or abrasive cleaners.
- **Wheel Cleaning:** Keep the wheels and track clean to ensure good electrical contact and smooth running. Use a specialized track cleaning fluid and cloth for best results.
- **Lubrication:** Periodically lubricate moving parts such as gears and axles with specialized model railway lubricant. Refer to Piko's general maintenance guidelines or a qualified service technician for detailed lubrication points.
- **Storage:** When not in use, store the locomotive in its original packaging or a protective case, away from dust, direct sunlight, and extreme temperature fluctuations.
- **Traction Tires:** The locomotive is equipped with 2 traction tires. Inspect these periodically for wear and tear. Replace them if they show signs of cracking or hardening to maintain optimal pulling power.

## 6. TROUBLESHOOTING

If you encounter issues with your locomotive, consult the following common troubleshooting steps:

- **Locomotive does not move:**
  - Ensure the power supply is connected and switched on.
  - Check track cleanliness and ensure good electrical contact between wheels and rails.
  - Verify that all wires are securely connected to the track and power pack.
  - If using a digital decoder, ensure it is correctly installed and configured.
- **Lights are not working:**
  - Check power supply and track contact.
  - In digital mode, ensure the light function is activated via your controller.
  - Verify the decoder installation if applicable.
- **Erratic movement or stalling:**
  - Clean wheels and track thoroughly.
  - Ensure there are no obstructions on the track.
  - Check for any loose parts or debris interfering with the mechanism.

If the problem persists, please contact Piko customer support or a qualified model railway technician.

## 7. TECHNICAL SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	52449
Product Name	Expert FS D141.1003 Diesel Locomotive
Brand	Piko
Scale	B Scale (Note: This may refer to a specific internal Piko classification)
Control System	DC (Gleichstrom)
Railway Operator	FS (Ferrovie dello Stato - Italian State Railways)
Era	IV
Length over Buffers	152 mm
Minimum Radius	358 mm
Digital Decoder Interface	NEM 658 PLUX22
Number of Traction Tires	2
Coupling Style	NEM shaft + close coupling mechanism
Lighting Style	White/red light change depending on driving direction
Interior Lighting	Digitally switchable cab lighting (with PLUX22 decoder)
Manufacturer Recommended Age	3 years and up
Self-assembly Product	Yes (refers to minor detailing/decoder installation)
Batteries Included	No
Spare Parts Availability	Information unavailable
ASIN	B09Q3HT1YN
Date First Available	January 10, 2022

## 8. WARRANTY INFORMATION

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Specific warranty details for the Piko 52449 Expert FS D141.1003 Diesel Locomotive are not provided in the product information. Please refer to the retailer's return policy or contact Piko directly for warranty terms and conditions. Generally, Piko products come with a manufacturer's warranty against defects in materials and workmanship. Keep your proof of purchase for any warranty claims.

## 9. CUSTOMER SUPPORT


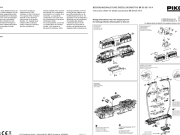



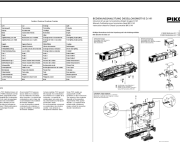
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For further assistance, technical support, or inquiries regarding your Piko locomotive, please contact:

- **Piko Official Website:** Visit the official Piko website for FAQs, product updates, and contact information.
- **Authorized Retailer:** Contact the retailer from whom you purchased the product.
- **Piko Service Department:** Refer to the contact details provided in the product packaging or on the Piko website for direct service inquiries.

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Related Documents - 52449 Expert FS D141.1003

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 <p>PIKO</p> <p>BR 65-DE-19-A</p>	<p><a href="#">Piko Diesel Locomotive BR 65-DE-19-A Instruction Manual</a></p> <p>Instruction manual for the Piko Diesel Locomotive BR 65-DE-19-A, covering assembly, decoder installation, sound retrofitting, and spare parts.</p>
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 <p>PIKO</p> <p>BR D.141</p>	<p><a href="#">PIKO D.141 Diesel Locomotive Instruction and Spare Parts Manual</a></p> <p>Comprehensive instruction and spare parts manual for the PIKO BR D.141 diesel locomotive, covering operation, function keys, disassembly, and component replacement.</p>