

Märklin 5117

Märklin HO Electromagnetic Turnouts 5117 Instruction Manual

Essential guide for setup, operation, and maintenance of your Märklin 5117 turnouts.

1. INTRODUCTION

Welcome to the Märklin HO Electromagnetic Turnouts 5117. These turnouts are specifically designed for use with Märklin M-Tracks, providing realistic and reliable operation for your model railway layout. This manual contains crucial information for the proper installation, operation, and maintenance of your new turnouts, ensuring long-lasting enjoyment and functionality.

2. PACKAGE CONTENTS

Before proceeding with installation, please verify that all components are present and in good condition.

- 1 Pair of Märklin HO Electromagnetic Turnouts (Model 5117)
- Original Product Box
- Instruction Paperwork (if included in original packaging)

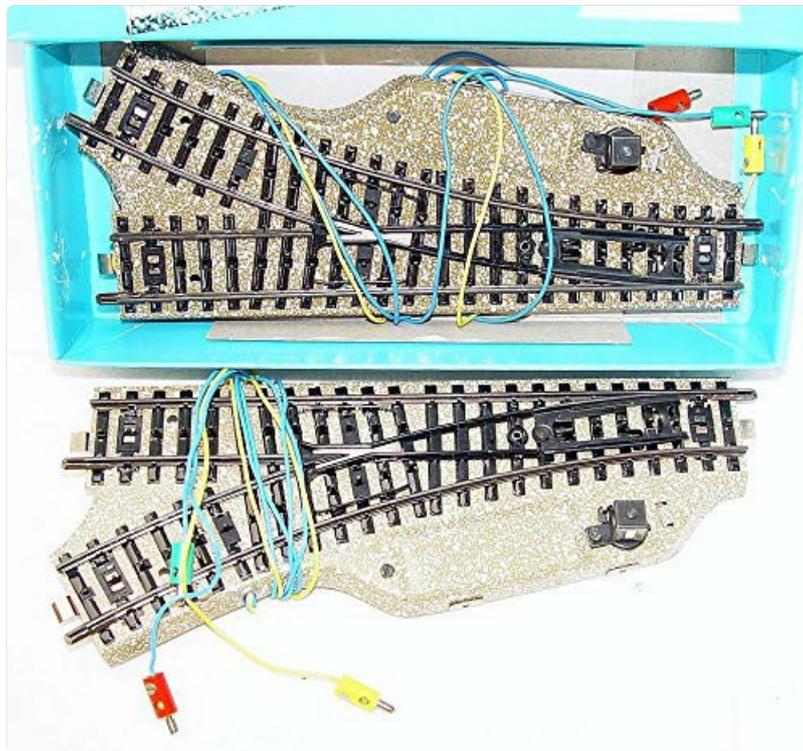


Image: Märklin HO Electromagnetic Turnouts 5117, showing the pair of turnouts inside their original blue packaging box with German text.

3. SETUP AND INSTALLATION

Follow these steps for correct installation of your Märklin 5117 turnouts.

3.1 Unpacking and Inspection

Carefully remove the turnouts and any accompanying paperwork from the box. Inspect both turnouts for any visible damage or missing parts before proceeding with installation.

3.2 Track Connection

The 5117 turnouts are designed for seamless integration with Märklin M-Tracks. Connect the turnouts to your existing M-Track layout using the standard track connectors. Ensure a secure and flush connection between all track sections to prevent derailments and ensure reliable electrical contact.

3.3 Electrical Connection

Each electromagnetic turnout requires electrical power for its operation. Proper wiring is essential for functionality and safety.

1. **Identify Wires:** Locate the three connection wires extending from the turnout mechanism. Typically, these consist of a common ground wire and two control wires, one for each direction of the turnout.
2. **Ground Connection:** Connect the common ground wire to the common ground terminal of your Märklin control unit or accessory power supply.
3. **Control Connections:** Connect the two control wires to the appropriate output terminals of a Märklin control box (e.g., a Märklin 7271 or similar switch control unit). Refer to your specific control box's manual for detailed wiring diagrams and terminal identification.
4. **Verify Connections:** Ensure all electrical connections are firm, secure, and correctly polarized to prevent short circuits or malfunction. Loose connections can lead to intermittent operation or damage.

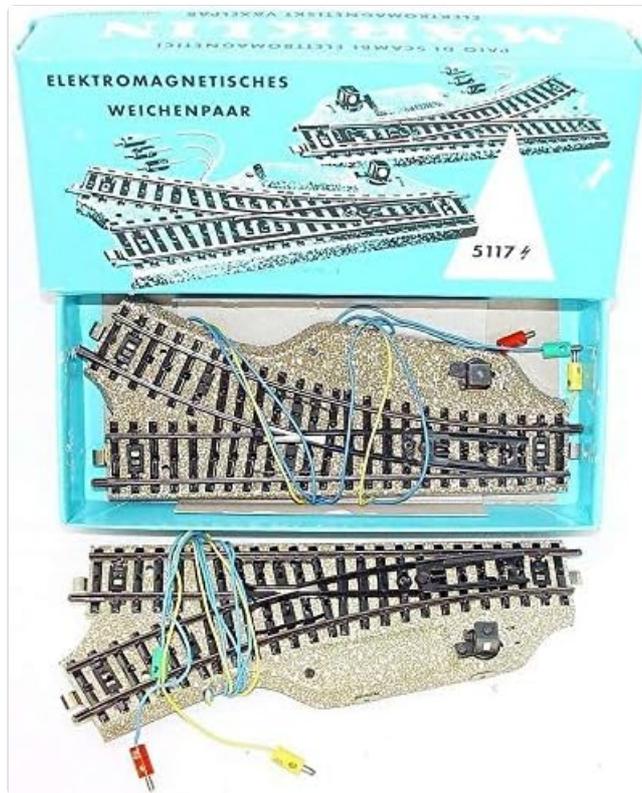


Image: A close-up view of the Märklin HO Electromagnetic Turnouts 5117, highlighting the electrical wiring and connection points for integration into a model railway layout.

3.4 Placement on Layout

Position the turnouts on a stable, level surface within your model railway layout. Ensure there is sufficient clearance for trains to pass through the turnout without obstruction, both in the straight and diverging positions.

4. OPERATING INSTRUCTIONS

Once installed and wired, your Märklin 5117 turnouts are ready for operation.

- **Function:** The Märklin 5117 electromagnetic turnouts enable you to remotely change the direction of train travel on your M-Track layout, guiding trains onto different routes.
- **Control:** Use your connected Märklin control box to operate the turnouts. Typically, pressing one button will switch the turnout to the "straight" position, while pressing the other button will switch it to the "diverging" position.
- **Observation:** Always observe the turnout blades as they move to ensure they fully engage in the desired position. Complete engagement is crucial for smooth train passage and to prevent derailments.
- **Important: Never manually force the turnout blades.** This can severely damage the internal electromagnetic mechanism and render the turnout inoperable. Always use the designated control box for operation.

5. MAINTENANCE

Regular maintenance will help ensure the longevity and reliable performance of your Märklin 5117 turnouts.

- **Cleaning:** Keep the track contacts and the moving parts of the turnout mechanism clean and free from dust, debris, and oil. Use a soft, dry cloth or a specialized track cleaning tool. Avoid abrasive materials.
- **Lubrication:** The electromagnetic mechanism of these turnouts generally does not require lubrication. Applying oil or grease can attract dust and dirt, potentially hindering operation.

- **Inspection:** Periodically inspect all wiring for any signs of wear, fraying, or loose connections. Ensure that the turnout and adjacent track sections remain securely connected and properly aligned.
- **Storage:** When not in use for extended periods, store the turnouts in their original box or a protective container. Keep them in a dry, dust-free environment away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your Märklin 5117 turnouts, refer to the following troubleshooting guide.

6.1 Turnout Does Not Switch

- **Check Connections:** Verify all electrical connections from the turnout to the control box and power supply. Ensure they are secure, correctly wired, and making good contact.
- **Control Box Function:** Confirm that your control box is receiving power and functioning correctly. Test it with another accessory if possible.
- **Obstructions:** Inspect the turnout mechanism for any visible obstructions (e.g., debris, loose wires, foreign objects) that might be preventing the blades from moving freely.
- **Power Supply:** Ensure your power supply is providing adequate voltage for accessory operation.

6.2 Intermittent Operation

- **Clean Contacts:** Clean the electrical contacts on the turnout and the track sections to ensure consistent power flow.
- **Loose Connections:** Re-check all wiring connections for any looseness that might cause intermittent contact.

6.3 Train Derails on Turnout

- **Blade Engagement:** Ensure the turnout blades are fully engaged in the selected position. If they are not, refer to "Turnout Does Not Switch" section.
- **Alignment:** Check for any misalignment between the turnout and adjacent track sections. Adjust as necessary to create a smooth transition.
- **Train Condition:** Inspect the wheels of the train for cleanliness, proper gauge, and any damage that might contribute to derailment.

7. SPECIFICATIONS

Model Number	5117
Track System	Märklin M-Track (HO Scale)
Operation Type	Electromagnetic
Power Requirement	Standard Märklin AC accessory power (typically 16V AC)
Key Features	Realistic and finely detailed, durable German engineering.

8. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or service inquiries regarding your Märklin HO Electromagnetic Turnouts 5117, please refer to the official Märklin documentation included with your product. You may also visit the official Märklin website for the most up-to-date information and contact details for customer service.

