

Märklin 8190

Märklin Z Scale Model Train Tracks Extension Set 8190 Instruction Manual

Model: 8190

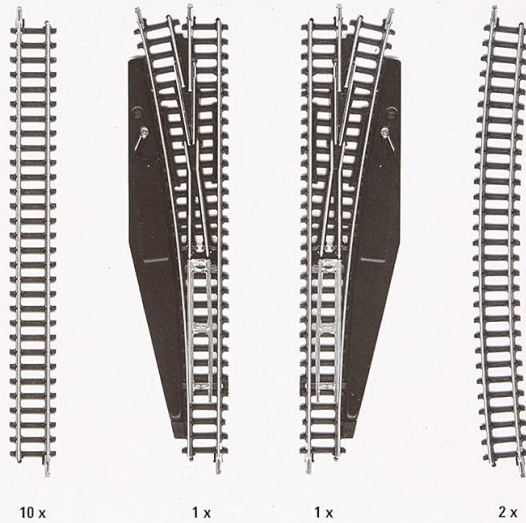
1. INTRODUCTION

This instruction manual provides essential information for the setup, operation, and maintenance of your Märklin Z Scale Model Train Tracks Extension Set 8190. This set is designed to expand your existing Märklin Z Scale layout, adding length and passing siding capabilities. Please read these instructions carefully before beginning assembly to ensure proper function and longevity of your model railway components.

2. PACKAGE CONTENTS

Carefully unpack the contents and verify that all components listed below are present. Due to the small scale of Z Gauge, handle all parts with care.

- 10 x Märklin 8500 Straight Tracks
- 1 x Märklin 8565 Left Hand Manual Turnout
- 1 x Märklin 8566 Right Hand Manual Turnout
- 2 x Märklin 8591 Curved Tracks



Spur Z | Erweiterungspackung E mit Handweichen

8190

Figure 2.1: Front of the Märklin Z Scale Extension Set 8190 packaging, illustrating the included track pieces.

Seit Jahrzehnten bekannt als
Known for decades as
Depuis des décennies connue comme
Al decennialang bekend als

mini-club

Die kleinste elektrische
Serienmodelleisenbahn
der Welt - faszinierend anders.

- Feinste Detaillierung
im Maßstab 1:220
- Spurweite Z = 6,5 mm
- 1972 als mini-club von
Märklin erfunden

Weitere Infos unter
www.maerklin.de

The smallest mass-produced
electric model trains in the world -
fascinating for all sorts of reasons.

- The finest detailing
in a scale of 1:220
- Z Gauge = 6,5 mm / 1/4"
- Invented by Märklin in 1972
as mini-club

Additional information at
www.maerklin.de
www.marklin.com

Fascinant - le plus petit chemin
de fer miniature au monde!

- Précision et détails
au 1:220
- Echelle Z = 6,5mm
- Inventée en 1972 par Märklin
comme « mini-club »

Informations supplémentaires:
www.maerklin.de

De kleinste in serie gefabriceerde
modelltrein ter wereld -
een wonder van techniek.

- Fijnste detaillering in
schaal 1:220
- Spoorbreedte Z = 6,5 mm
- In 1972 als miniclub door
Märklin uitgevonden

Meer weten over märklin
www.maerklin.de



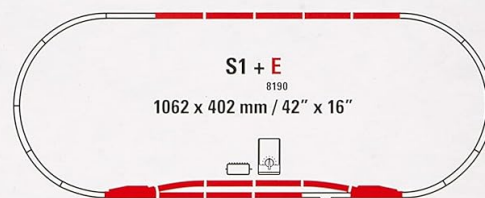
märklin

Gebr. Märklin & Cie. GmbH
Stuttgarter Straße 56-57
73033 Göppingen

www.maerklin.de



Nur für Erwachsene. Adresse aufbewahren.
For adults only. Keep the address in a safe place.
Usage réservé aux adultes. Conserver l'adresse.
Alleen voor volwassenen. Adres bewaren.
Kun for voksne. Gem adressen.
Solo per adulti. Conservare l'indirizzo.
Solamente para personas adultas. Conservar la dirección.
Só para adultos. Guardar o endereço.
Μόνο για ενήλικες. Διατηρείστε την διεύθυνση.



Inhalt / Contents:
10 x 8500 Gleis gerade / Straight Track
1 x 8565 Weiche links / Left Turnout
1 x 8566 Weiche rechts / Right Turnout
2 x 8591 Gleis gebogen / Curved Track

683 000 0920 /nd

Figure 2.2: Back of the Märklin Z Scale Extension Set 8190 packaging, detailing the exact part numbers and quantities of the included tracks and turnouts.



Figure 2.3: The Märklin Z Scale track components, including straight tracks and turnouts, neatly arranged within their protective plastic tray.

3. SETUP

This extension set allows you to expand your existing Märklin Z Scale layout. The tracks are designed for easy connection to other Märklin Z Scale track sections.

1. **Plan Your Layout:** Before connecting, plan the desired track configuration. This set can increase your overall layout size to approximately 21 x 42 inches (53 x 107 cm) when combined with a basic oval.
2. **Connect Straight Tracks:** Align the connectors of the straight track sections (Märklin 8500) with your existing track or other new sections. Gently push them together until they form a secure connection. Ensure the rails are perfectly aligned to prevent derailments.
3. **Integrate Curved Tracks:** Use the curved track sections (Märklin 8591) to form bends or complete an oval. Connect them in the same manner as the straight tracks.
4. **Install Turnouts:** The set includes one left-hand (Märklin 8565) and one right-hand (Märklin 8566) manual turnout. These allow for switching between different track paths. Connect them into your layout where a branch or siding is desired. Ensure the turnout mechanism is clear of any obstructions.



Figure 3.1: A detailed view of a Märklin Z Scale straight track section, highlighting the rail and sleeper design.



Figure 3.2: A close-up of a Märklin Z Scale manual turnout, showing the movable points and the lever for changing track direction.

Important: Always ensure track connections are firm and level to prevent operational issues. The small size of Z Scale components requires careful handling to avoid damage.

4. OPERATING MANUAL TURNOUTS

The turnout included in this set are manually operated. To change the direction of the train, gently move the small lever located on the side of the turnout. Ensure the points are fully shifted and aligned with the desired track before a train approaches the turnout. Forcing the lever or attempting to change direction while a train is on the turnout can cause damage to the turnout or the train.

5. MAINTENANCE

Proper maintenance ensures reliable operation and extends the life of your Märklin Z Scale tracks.

- **Keep Tracks Clean:** Dust and debris can accumulate on the track rails, leading to poor electrical contact and erratic train operation. Regularly clean the track surfaces with a soft, lint-free cloth. For stubborn dirt, a specialized track cleaning fluid designed for model railways can be used sparingly.
- **Inspect Connections:** Periodically check all track connections to ensure they are secure. Loose connections can cause power interruptions and derailments.
- **Turnout Care:** Keep the moving parts of the turnouts free from dust and foreign objects. Avoid applying lubricants unless specifically recommended by Märklin, as some lubricants can attract dust.
- **Storage:** When not in use, store track components in a clean, dry environment, away from direct sunlight and extreme temperatures. The original packaging tray (Figure 2.3) is suitable for storage.

6. TROUBLESHOOTING

If you encounter issues with your track layout, consider the following common problems and solutions:

- **Train Stops or Runs Erratic:**
 - Check all track connections for tightness.
 - Clean track rails thoroughly to ensure good electrical contact.
 - Ensure power supply is properly connected and functioning.
- **Derailments at Track Joints:**
 - Verify that track sections are perfectly aligned and level at all joints.
 - Ensure track connectors are fully engaged.
- **Derailments at Turnouts:**
 - Confirm that the turnout points are fully shifted and locked into the desired position before the train enters.
 - Check for any debris obstructing the turnout mechanism.

7. SPECIFICATIONS

Model Number	8190 (also referred to as 441-8190)
Scale	Z Scale (1:220)
Product Dimensions	10 x 2 x 7 inches (packaging)
Item Weight	8.7 ounces

Recommended Age	14 years and up
Manufacturer	Walthers - Life Like (for distribution), Märklin (brand)
UPC/EAN	4001883081908

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Märklin Z Scale products, please contact Märklin directly or refer to their official website.

Märklin GmbH

Stuttgarter Straße 55-57
73033 Göppingen, Germany
Website: www.maerklin.de

Please retain your proof of purchase for any warranty claims.