

Zmodell

1:220

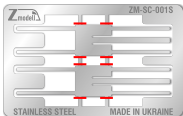
**0.025 mm
STAINLESS
STEEL**

**Sliding contacts for Märklin®
4-axle passenger cars
2 pieces (1 set)**

ZM-SC-001S

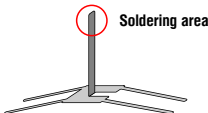
Installation Instructions

1. Cut out the sliding contacts from the frame:



 **Cut**

2. Bend the parts with tweezers as shown on the following picture:



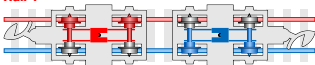
3. Remove the wheelsets from the truck frames and drill 0.8 mm holes in the centers of the truck's pivots.

4. Insert sliding contacts into the truck frames and reinstall the wheelsets.

IMPORTANT: Please observe correct polarity! Both wheelsets in the same truck should be installed in the same position! Otherwise, it will result in the short circuit and damage to the truck, wheelsets and sliding contacts!

One truck should receive the power from the first rail, while another truck - from the second one, as shown on this picture:

Rail 1



Rail 2

4. After finishing the soldering process, please clean soldered areas thoroughly in order to prevent the residues of the acid-based flux from further corroding the metal and plastic. Tap water either 100% IPA (Isopropyl Alcohol) can be used for this.



Sliding contacts for Märklin® 4-axle passenger cars

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Quantity: 2 pieces (1 set) **Material:** High-flexible stainless steel **0.025 mm** **Suitable for:** Most types of Märklin® 4-axle passenger cars

- Stainless steel sliding contacts provide significantly better electric contact with the wheelsets in comparison with more common brass parts due to lack of oxidation.
- Reduced material thickness provides less rolling resistance while maintaining the same material strength compared to thicker brass parts.

ATTENTION: Special flux required for soldering these parts! Phosphoric acid (or “soldering acid”) recommended for this purpose. Any other flux suitable for soldering steel parts can be used too.

IMPORTANT: Thorough cleaning the parts from residues of phosphoric acid (or any other acid-based fluxes) after soldering is imperative! Tap water either 100% IPA (Isopropyl Alcohol) can be used for this.

Please see installation instructions inside this booklet.

ZM-SC-001S

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