

The logo features a stylized white 'Z' on a red background. The top horizontal bar of the 'Z' is curved to resemble the roof of a train carriage. The word 'modell' is written in a white, lowercase, sans-serif font to the right of the 'Z'.

**1:220**

**Brass sliding contacts  
for Märklin® 2-axle type Pwgs 41  
freight train baggage car  
1 set**

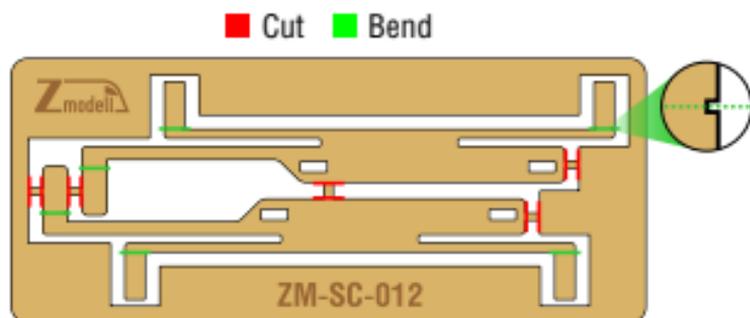
**ZM-SC-012**

## Installation instructions

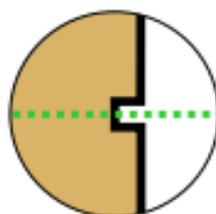
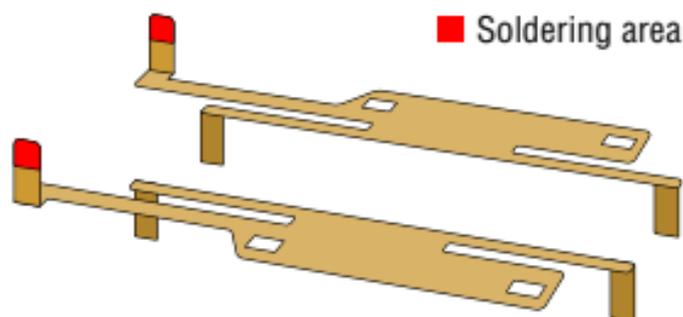
### 1. Disassemble the baggage car:

- Separate the chassis and body
- Separate the body and roof
- Remove interior details
- Remove weight insert attached to the chassis

### 2. Cut out sliding contacts from the frame:

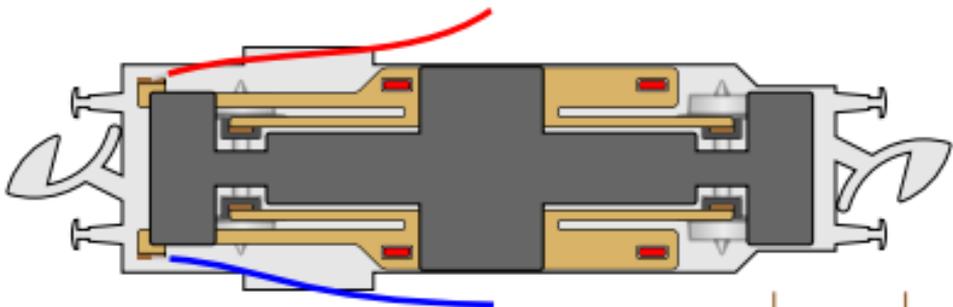


### 3. Bend like this:

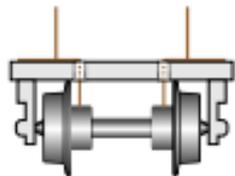


**IMPORTANT:** In order to ensure correct assembly and reliable electric contact, please follow bending marks very precisely. It is recommended to use precise tweezers or special bending tool for this step.

4. Install sliding contacts onto the chassis like shown here:



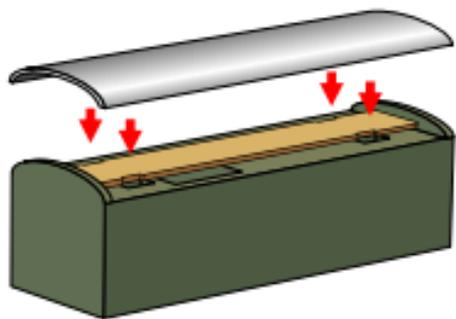
Bent ends of sliders should touch the hubs of wheels with their edges like this:



5. Fix sliding contacts in place by melting down and pressing four square pins on the chassis using soldering iron heated up to 200° C. The pins are marked with red on the picture above.

6. Place plastic holder above the sliding contacts onto the chassis like shown on the previous picture.

7. After installing sliding contacts, steel weight insert that came with the car cannot be used anymore. To compensate weight loss, use brass weight insert that comes in the package. Place it onto the top of the car body and fix it in place by attaching the roof.



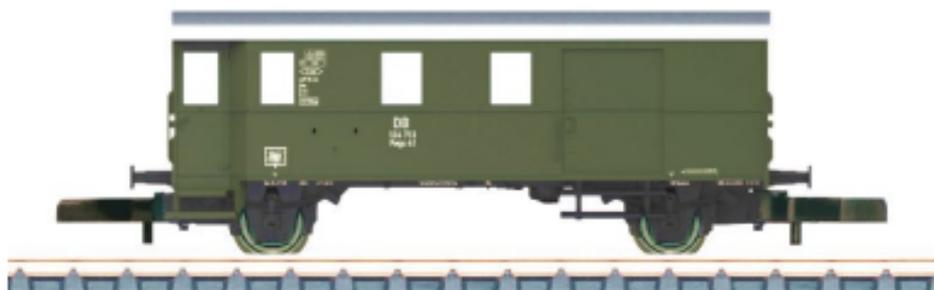
8. Solder pieces of wire to the upper pins of sliding contacts and connect them with your interior lighting solution (analog or digital).

9. Re-assemble the car and make a break-in run for 10-15 minutes on clean tracks in both driving directions.



**Brass sliding contacts for  
Märklin® 2-axle type Pwgs 41  
freight train baggage car**

**1:220**



**Package contents:**

- 2x sliding contacts, brass 0.05 mm
- 1x weight insert (0.8 g), brass 0.5 mm
- 1x holder, black polystyrene 0.5 mm

**Suitable for:** Märklin® 86070

Please follow installation instructions inside this booklet.

**Attention:** Installation requires soldering.

ZM-SC-012

**Made in Ukraine**