

Digitalzentrale

Conversion kit for retrofitting a digital plug-in interface
according to NEM651

suitable for: TOMIX track cleaning trolley

Attention: no toys! Not suitable for children under 14 years.
The outer packaging and carrier material can be recycled

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Instruction Manual: Digital conversion TOMIX track cleaning trolley for pre- and post-2015 versions

Introduction:

Please note the instructions of the manufacturer for opening the car during assembly. If you have any questions, please do not hesitate to contact us by phone or e-mail, we will be happy to help.

We can assume little liability for improper opening of the car and improper installation of the kit. This also applies to work when dealing with the digital decoder and its consequences. Be sure to discharge static electricity before touching the decoder. Please read all the instructions before you start the conversion.

Overview of the items:

1 digital board

Tools needed:

Phillips screwdriver





First, the track cleaning car must be unscrewed, then you can remove all the parts carefully. If you first remove the vacuum cleaner wheel with the provided tool (enclosed with the cleaning cart), the motor can be easily lifted off. In doing so, this empties the car so the circuit board can be removed.

Now, the legs of the decoder have to be bent. Make sure that the legs are bent in the right direction.

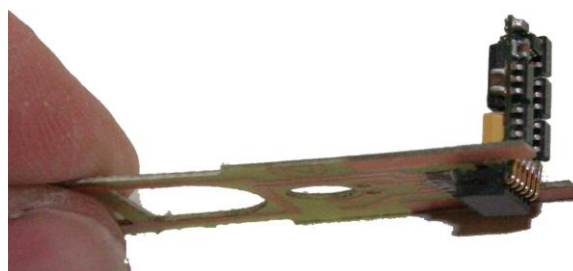
The legs of LENZ decoders can not be bent, these break off, please refrain from using such a decoder. The legs of some decoders (Kühn) are made of very rigid material; without tools they break off the legs and the solder pads from the decoder, making it useless. The legs of ZIMO and TRAN Decoders are relatively easy to bend.



But you can also install the N025-P 90 ° from Kühn, this already has factory-bent legs.

Or if you already have a NEM651 decoder and don't want to bend its pins, you can purchase the 90° adapter, Product no.: 851221

Now you can plug the decoder into the board. You can check again that pin 1 is set to connect to the motor.



Conversion cleaning trolley version pre-2015:

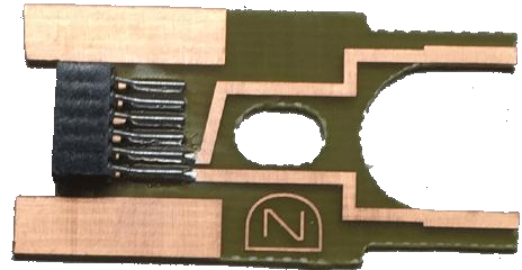
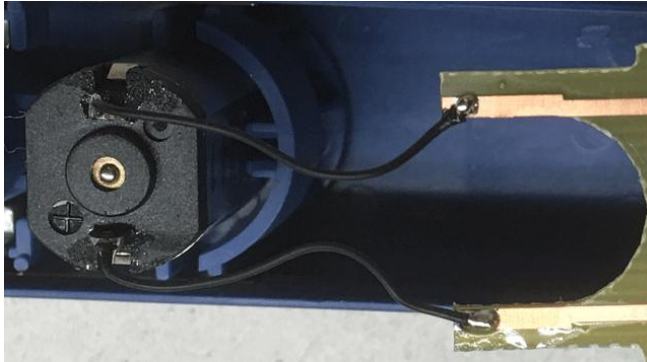


Now you can reassemble everything. First, the original board is removed from the motor.

Make sure that the new board is inserted as shown in the picture. The board is reattached to the motor.

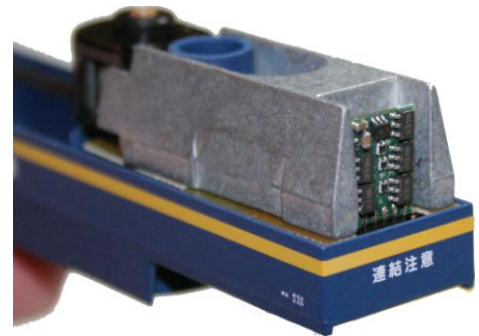
Conversion cleaning trolley version post-2015:

For this version of the cleaning car (new trolley post-2015), the board must be cut off at the crossbar.



The cables from the motor are unsoldered from the old board and are soldered to the new board.

Then note the weight. Here, the decoder fits exactly into the recess of the weight. Make sure that the decoder is not in contact with the weight. If necessary, paint it, or just tape it with Kapton tape.



Now you can screw all the parts together again.

Before a test drive is made with the model, it should first be placed on the programming track of the digital control center. Can the address (CV1) be read without any problems? If problems arise, please check your installation carefully again. Since the programming output of digital control units is current-limited, the decoder is not damaged on the programming track in the event of any setup errors - however, in the case of immediate placement on the main track, this could happen if such an error condition exists.

CV values for the pre-2015 cleaning trolley version:

CV 2: 130
CV 3: 1
CV 4: 1
CV 5: 140

In digital mode, note that after a few minutes in the grinding / polishing mode, the motor can become overloaded. Please do not operate the car in grinding / polishing mode for more than 2 minutes at a time.

CV values for the post-2015 cleaning trolley version:

CV 2: 190
CV 3: 1
CV 4: 1
CV 5: 210

ATTENTION: the cleaning trolley from the post-2015 version is no longer suitable for sanding and polishing!

Finally, we wish you much success in the conversion and have fun with the subsequent digital driving!

Your Digitalzentrale team.