

**CL61003 Car sound module with loudspeaker**

Dear Customer,

This sound module was specially developed for large tracks (from track 0). The sound module reproduces the typical travelling sound of two- or four-axle cars and can be used either in goods wagons or stationary. The volume can be set via a potentiometer.

**Packing contents:**

1 circuit board with  
installation instructions  
1 loudspeaker

**Technical data:**

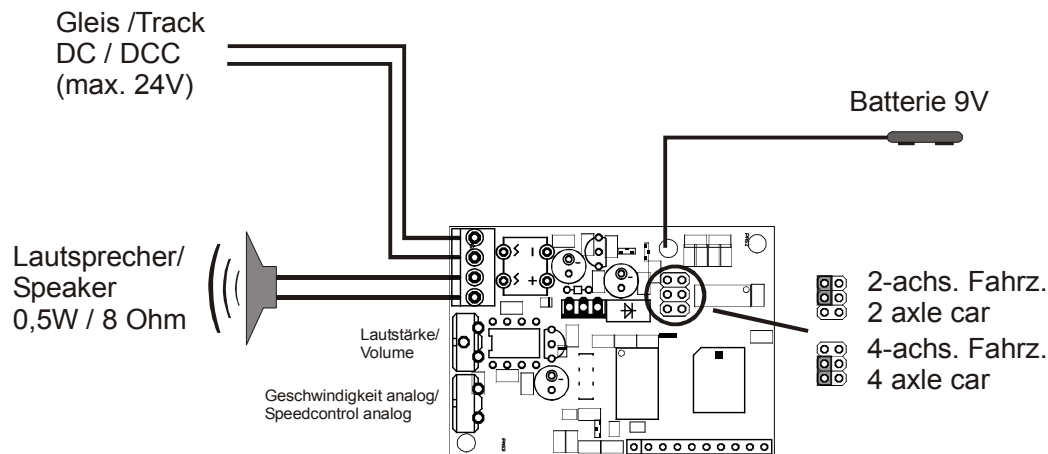
Supply with a.c., d.c. and digital voltage possible!  
Input: 0-24 volt  
Integrated NMRA decoder

**Note:**

Be sure to read the following description carefully before beginning with the assembly. Do not connect additional loudspeakers to the module! **CE** Not suitable for children under 14 years. Contains small parts. Improper use may cause injuries through functional sharp edges and points. Please retain these instructions for use!

**Retrofitting/installation:**

Connect the module as per the following drawing.



In digital operation, there is no need for the 9-volt battery. In analogue operation, a battery is required to ensure a pure sound even when travelling at slow speed. The volume and the speed (only in analogue operation) can be set via the two potentiometers next to the terminal screw bar. The coding bridge (see drawing) allows you to set whether you have a two-axle or a four-axle car. In digital operation, you can choose between 9999 addresses and 12, 28, or 128 rates of speed.

p.t.o.

The integrated decoder is capable of programming and reading according to the NMRA standard. The “CV” registers are used/adjustable as follows:

- CV1 Decoder address [3] (1..127)
- CV5 Correction factor for speed adjustment digital [128] (0..255)
- CV6 Pointer register for indirect programming
- CV7 Decoder version [10] (only readable)
- CV8 Manufacturer ID [123] (only readable)
- CV17 4-digit local address MSB [0] (see CV18)
- CV18 4-digit local address LSB [128] (128..9999)
- CV29 Configuration NMRA [0] (0, 2, 32, 34)
- Bit 1 = 14 rates of speed (0) , 28 rates of speed (2)
- Bit 5 = Local address CV1 (0) , local address CV17+18

Should you discover a fault in the fabrication despite a careful final inspection, please return this item to your dealer, together with a description of the fault and your receipt, or send the component directly to us. Any charges relating to the return of this item will have to be borne by you!

Further information on our products can be found on the Internet at <http://www.champex-linden.de>.

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