

## LGB 20750 DB E10 en

Conversion of a “LGB E10” (20750) with an eMotion XLS sound decoder. (Fig. 1)  
The locomotive has 1 LED each for the front and rear headlights.



Fig. 1: LGB 20750 “DB E10”

### **Needed Parts:**

- 1x 8230075 XLS-Sound decoder : E10
- 1x 8313608 brushes 16mm (4 pcs. from set of 8)

### **Retrofitting of brushes:**

Since the model has only one current draw via the rail slider, retrofitting of brushes is recommended.

Here it is sufficient to equip the two outer axles (without traction tires).

- To do this, loosen the 4 marked screws in the gear unit bottom (Fig. 2).
- Place the brushes in the prepared sockets, paying attention to the position of the current conductors (Fig. 3).

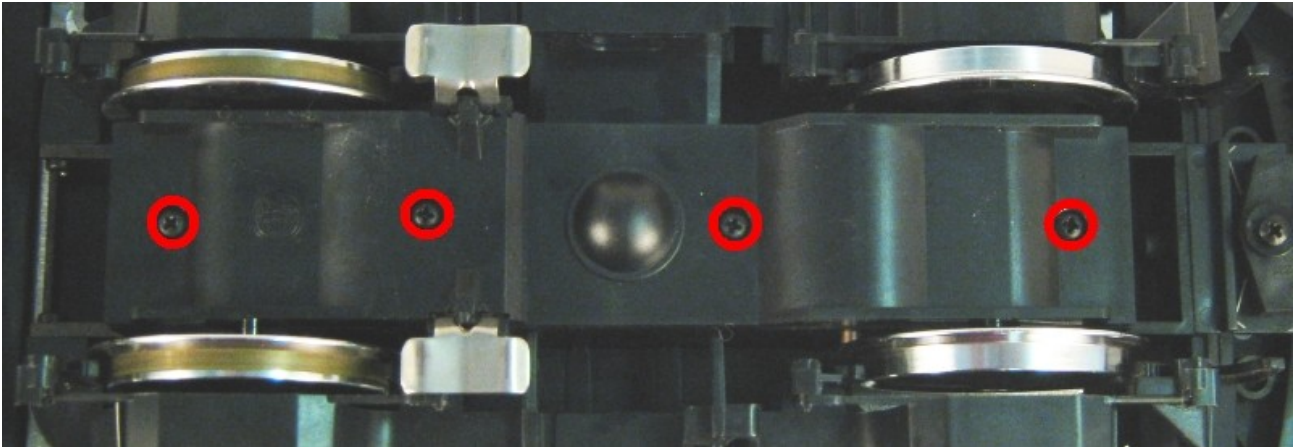


Fig. 2: Opening the gearbox base

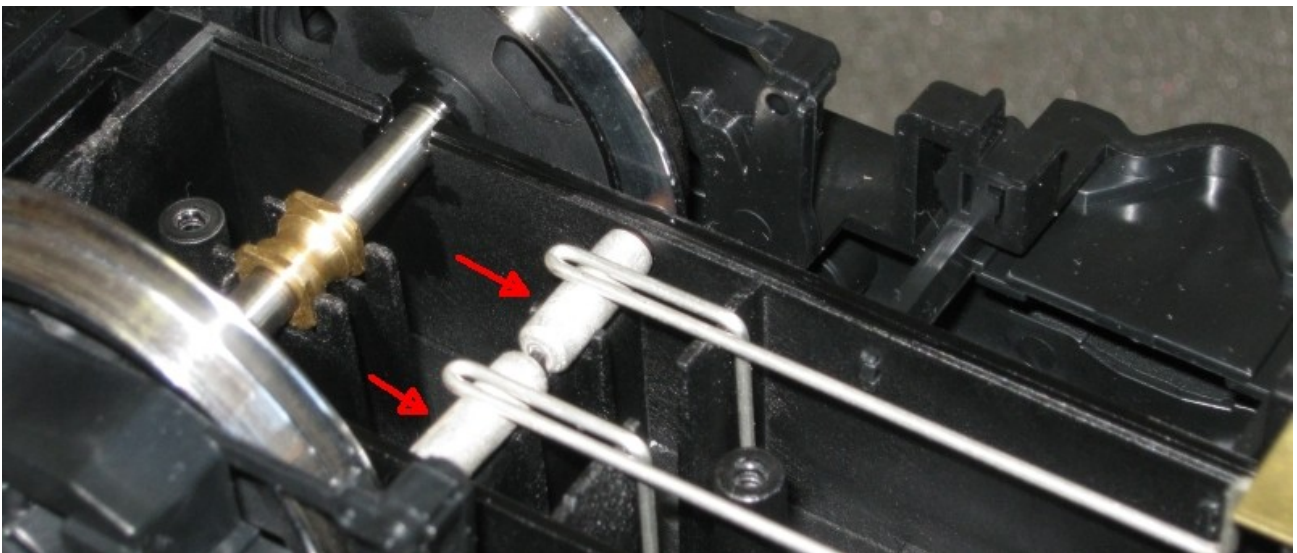


Fig. 3: Insertion of the brushes

**Retrofit:**

- Open the locomotive by removing the 10 marked screws in the underbody (Fig. 4).
- Remove the rear gear unit and the marked screws from the weight (Fig. 5).
- Remove dissolved weight.

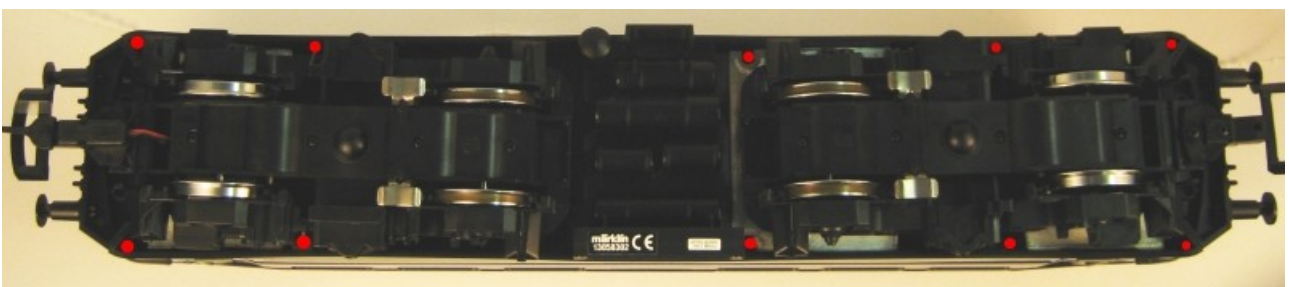


Fig. 4: Open locomotive housing

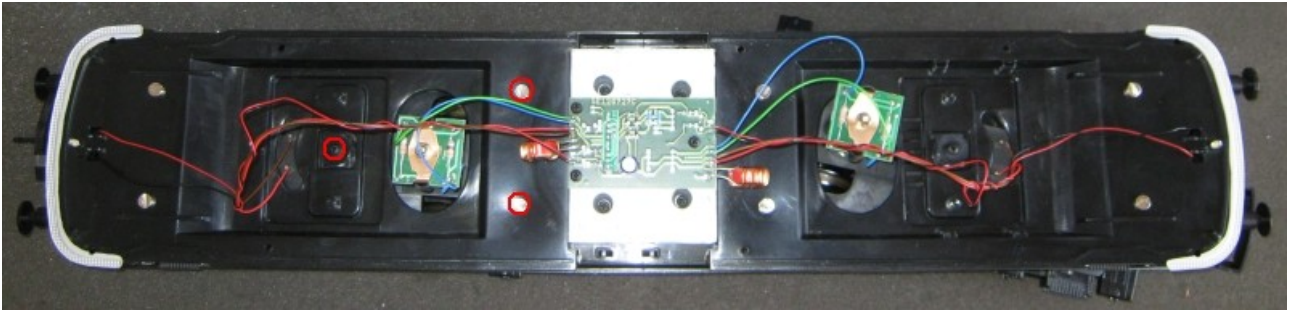


Fig. 5: Remove screws for weight + gearbox

- Drill holes for the sound outlet and mounting holes for loudspeakers using a template (Fig. 6) (drill template in the appendix).
- Drill mounting holes for new weight attachment, if necessary (Fig. 7)

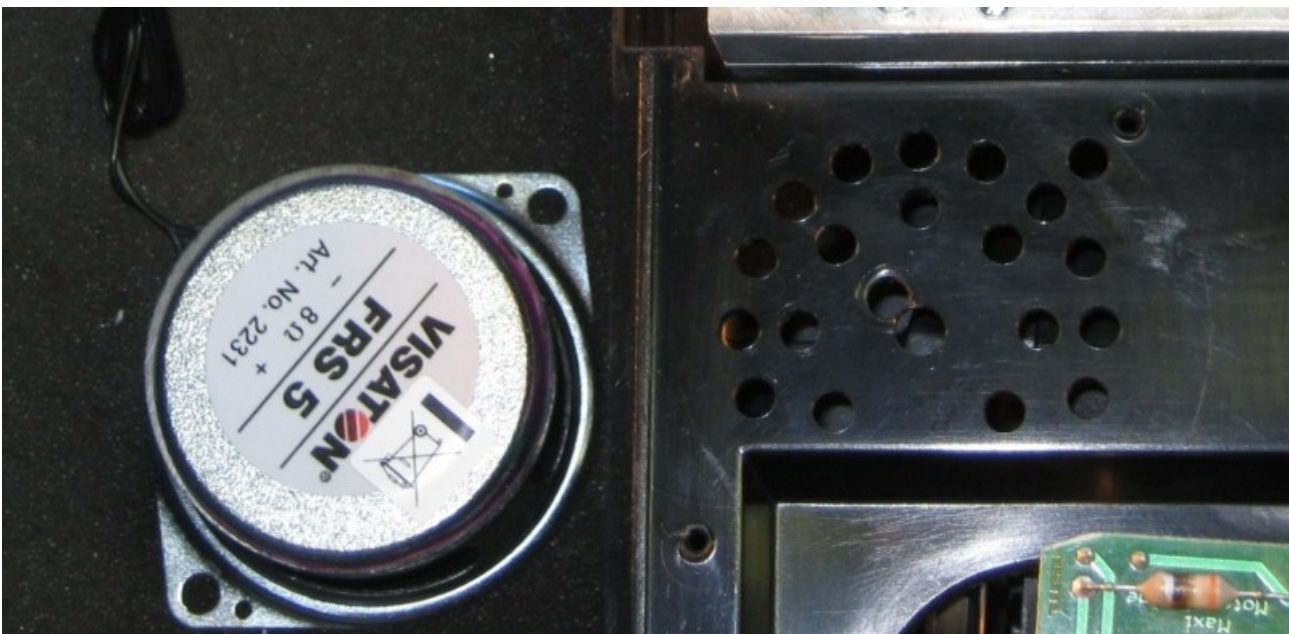


Fig. 6: sound outlet holes

- Move the DCC interface board to the side.
- Screw the DCC interface cable into the decoder according to the instructions.
- Attach XLS decoder (on the middle weight)
- Remove the analog bridge on the DCC board and connect the cable in the correct polarity.
- Attach the speaker and insert the cable into XLS
- For full motor power, the two coils can be bridged on the DCC board (Fig. 7 - red circles)

The locomotive also runs faultlessly with coils (with Massoth decoder) but has a reduced engine power under load.

By bridging the coils, however, they lose CE approval for the vehicle!

LGB-2075-a7.jpg

Fig. 7: overall view

If desired, reattach the weight to the vehicle floor.

---

**Programming:**

No special programming is required.

Check the functions of the locomotive before reassembling the housing cover.

Make sure that no cables are jammed or damaged by screws.

**ATTENTION:** Incorrect wiring or programming can lead to the destruction of the electronic components!

[Lautsprecherschablone\\_E10.pdf](#)