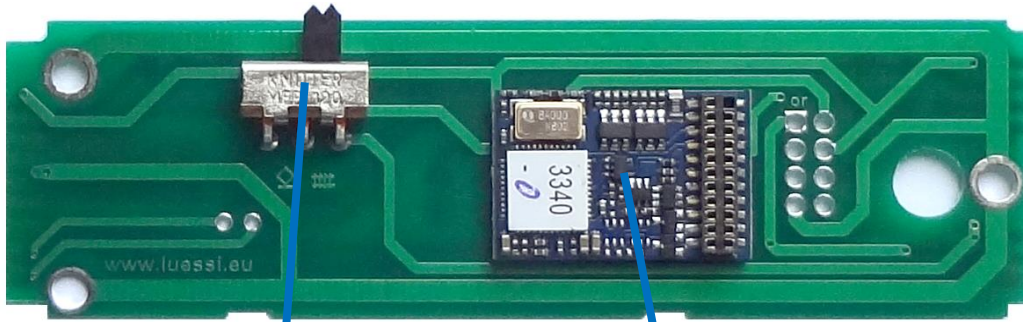
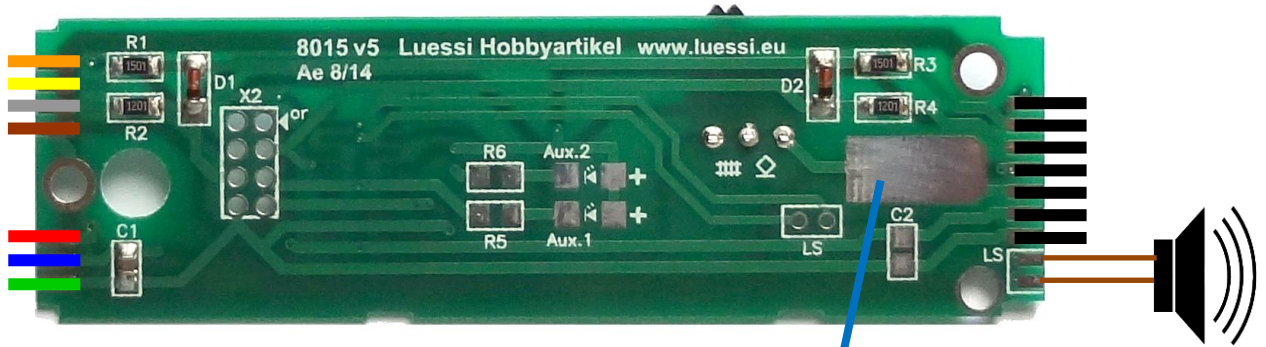


PCB for decoder replacement in Marklin Locos Ae 8/14, part no. 8015mtc



Switch for catenary

Room for decoder
(Decoder not included)

















Reconnect the wires the same way as they were on the original decoder. (Colours in the loco are Marklin standard)

Contact area for pantograph

Check that the black wires are in the same sequence as in loco part 2.

21mtc interface:
Pins and colours (Marklin)

Hall sensor 1	1	22		Track (ski pickup / pantograph)
Hall sensor 2	2	21		Track (wheels)
Aux 6 (L)	3	20		DC (-) Funktionen
Aux 4 (L)	4	19		Motor +
Train bus Clock	5	18		Motor -
Train bus Data	6	17		Aux 5 (L) / Motor (3)
Rear light		7	16	 DC (+) Funktionen
Front light		8	15	 Aux. 1
Loudspeaker 2		9	14	 Aux. 2
Loudspeaker 1		10	13	 Aux. 3 (L)
Index (missing pin)		12		Vcc +5V Processor