PCB for decoder installation in Märklin Re 4/4, article no. 8076mtc

Room for decoder

21MTC Interface

Changeover switch for Catenary operation

Contact surface for pantographs
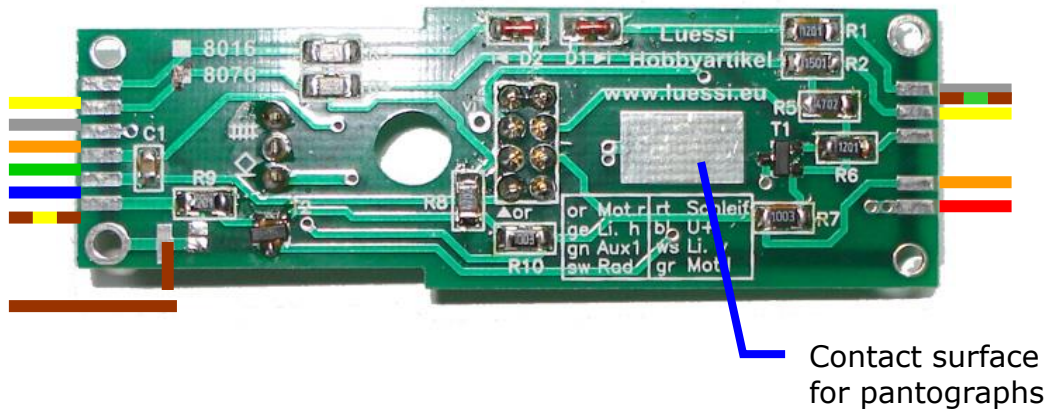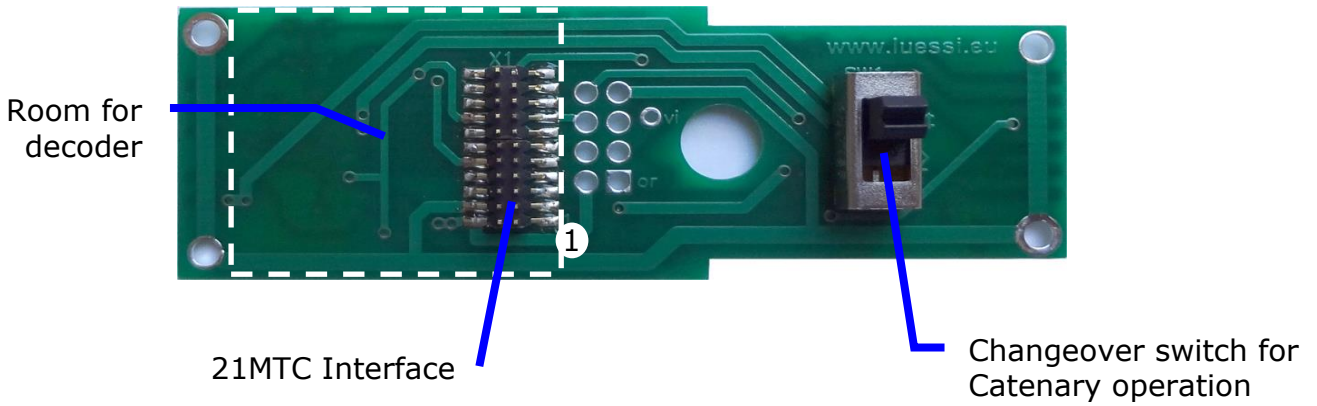
The wires are soldered at the same place as the original decoder. (strand colors in the locomotive are according to Märklin)

Pin assignment of the 21mtc Interface:

Märklin colour standard

Hall sensor 1	1	22		Pickup, Pantograph
Hall sensor 2	2	21		Wheels, Ground
Aux 6 (L)	3	20		DC (-) Functions
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 (+) Functions
Front light	8	15		Aux. 1
Loudspeaker 2	9	14		Aux. 2
Loadspeaker 1	10	13		Aux. 3 (L)
Index pin	⊠	12		Vcc +5V Processor

NEM / DCC standard

Hall sensor 1	1	22		Pickup, Pantograph
Hall sensor 2	2	21		Wheels, Ground
Aux 6 (L)	3	20		DC (-) Functions
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 (+) Functions
Front light	8	15		Aux. 1
Loudspeaker 2	9	14		Aux. 2
Loadspeaker 1	10	13		Aux. 3 (L)
Index pin	⊠	12		Vcc +5V Processor