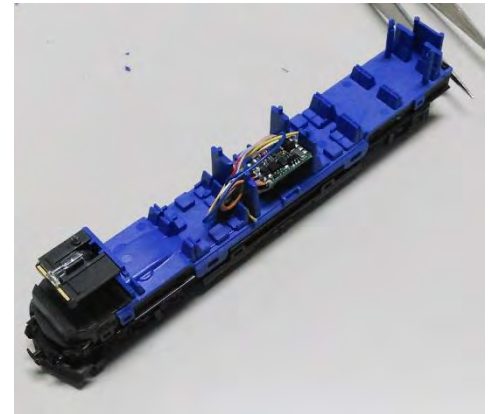
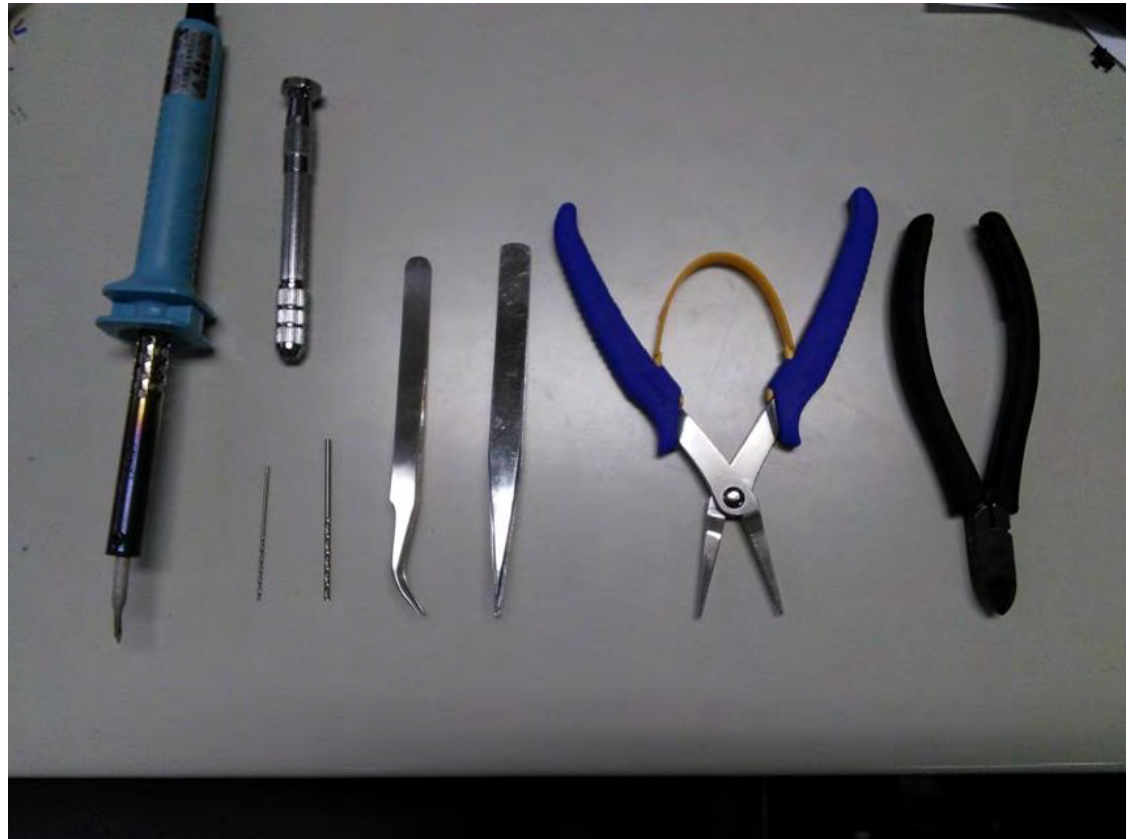


10-1273 Rhätische Bahn ABe8/12 〈Allegra〉 DCC Decoder Installation Manual «Top Car»



Tools to prepare

- Soldering Iron
- Pin Vice
- Drill
- Tweezers
- Cutting Pliers
- Nippers
- Knife



Compatible Decoders

- Lenz
- ESU
- Uhlenbrock
- Kühn



Compatible Decoders

- Either Decoder for motor or Decoder dedicated for functions can be used.



These instructions will mainly explain Lenz SILVER mini+, and will also describe partly the installation and wiring of Uhlenbrock #73800.

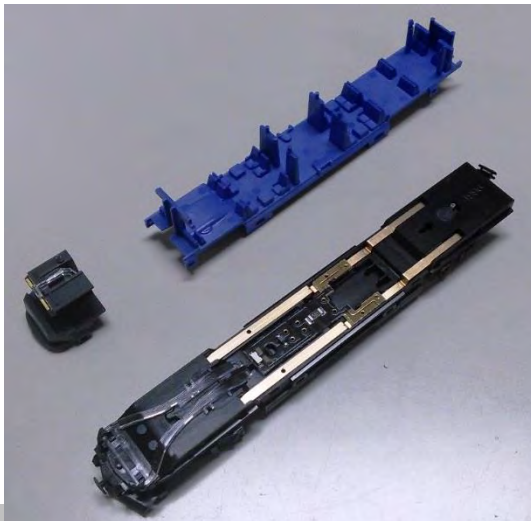
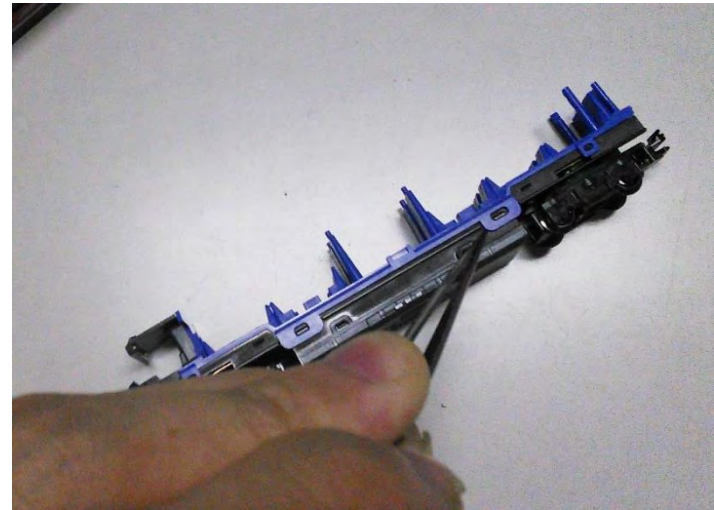
1. Dismantling of car

- Please detach the body shell from the floor.



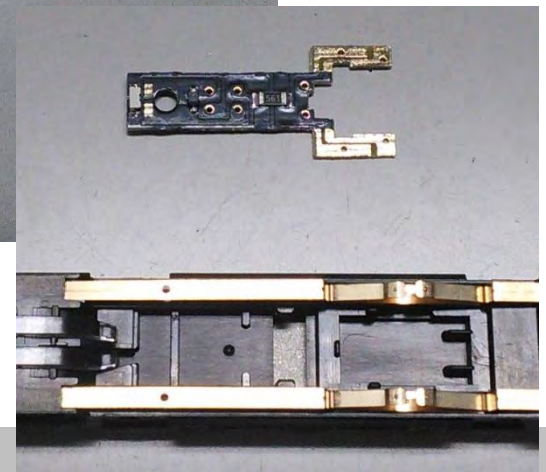
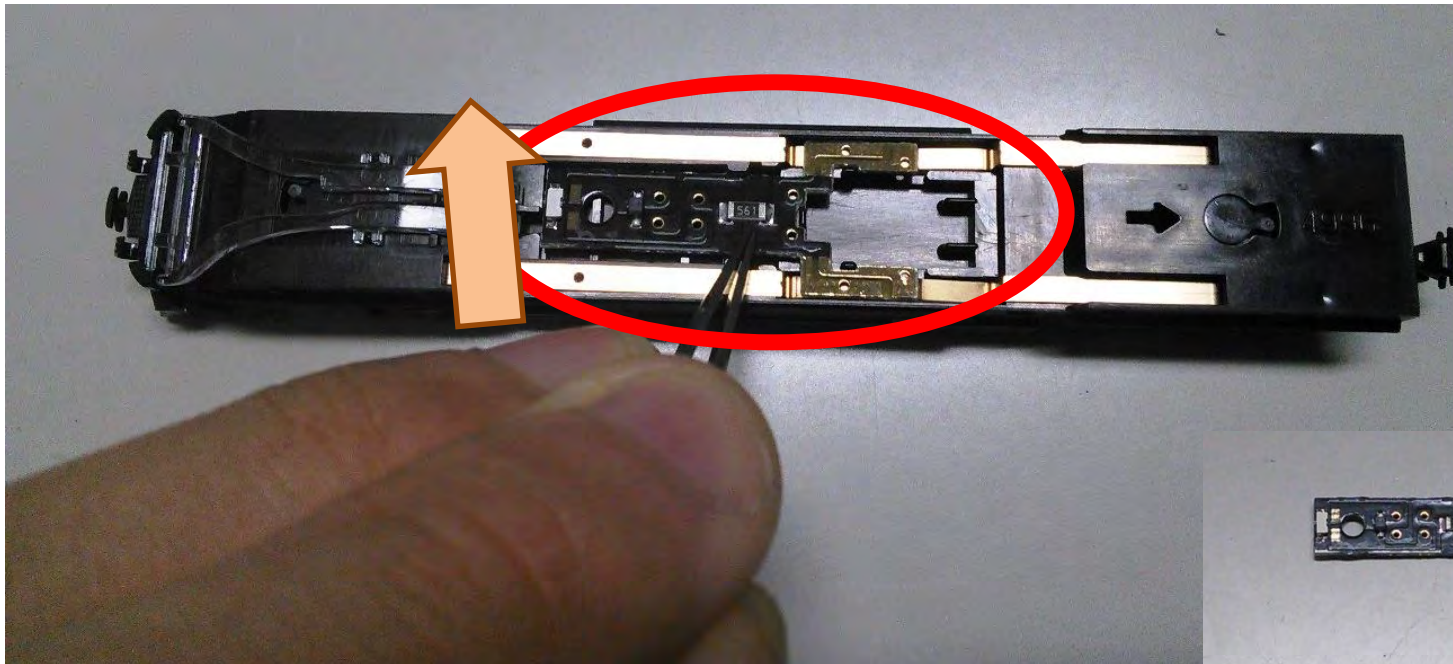
2. Dismantling of floor

- Please detach the blue part (seats) and the cab. Please use tweezer, etc. to undo the hooks. On the right and left side, there are 10 hooks in total.



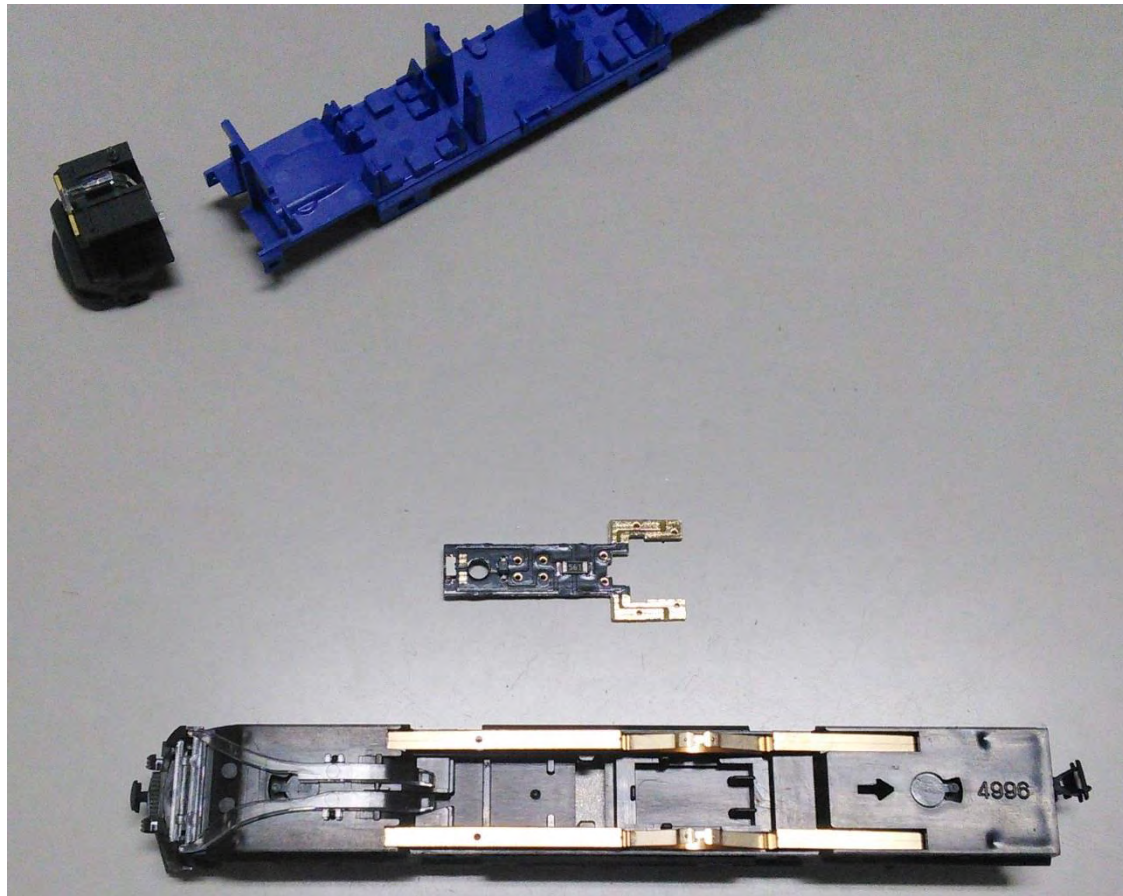
2. Dismantling of floor

- Please detach the headlight PCB. Please raise the PCB for dismantling.



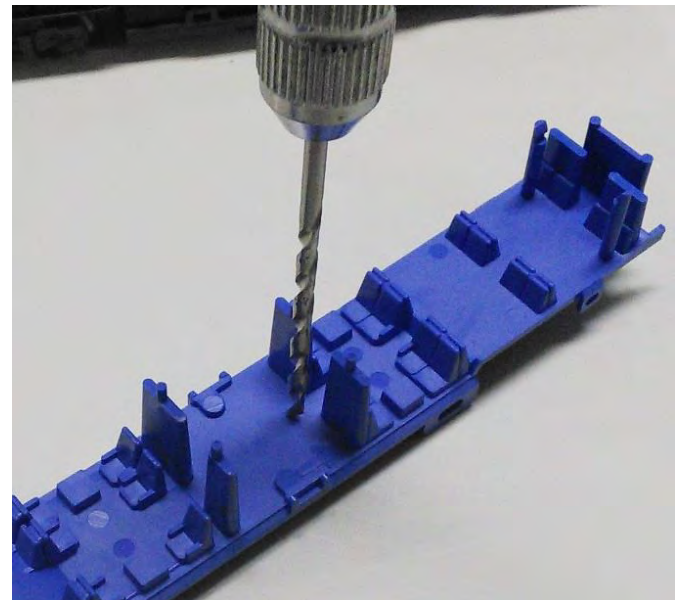
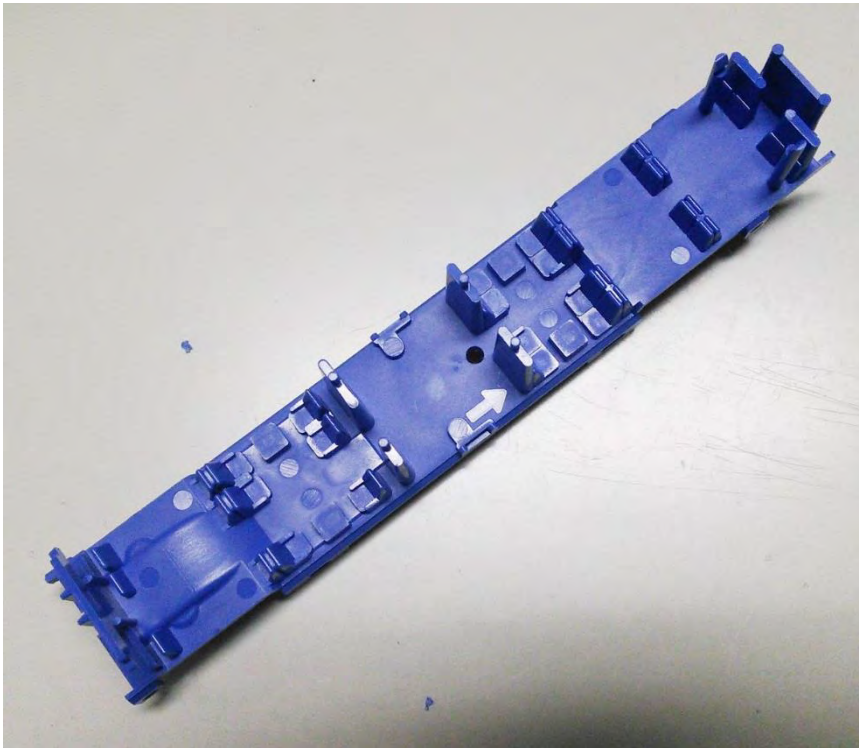
2. Dismantling of floor

- Now the dismantling of floor is complete!



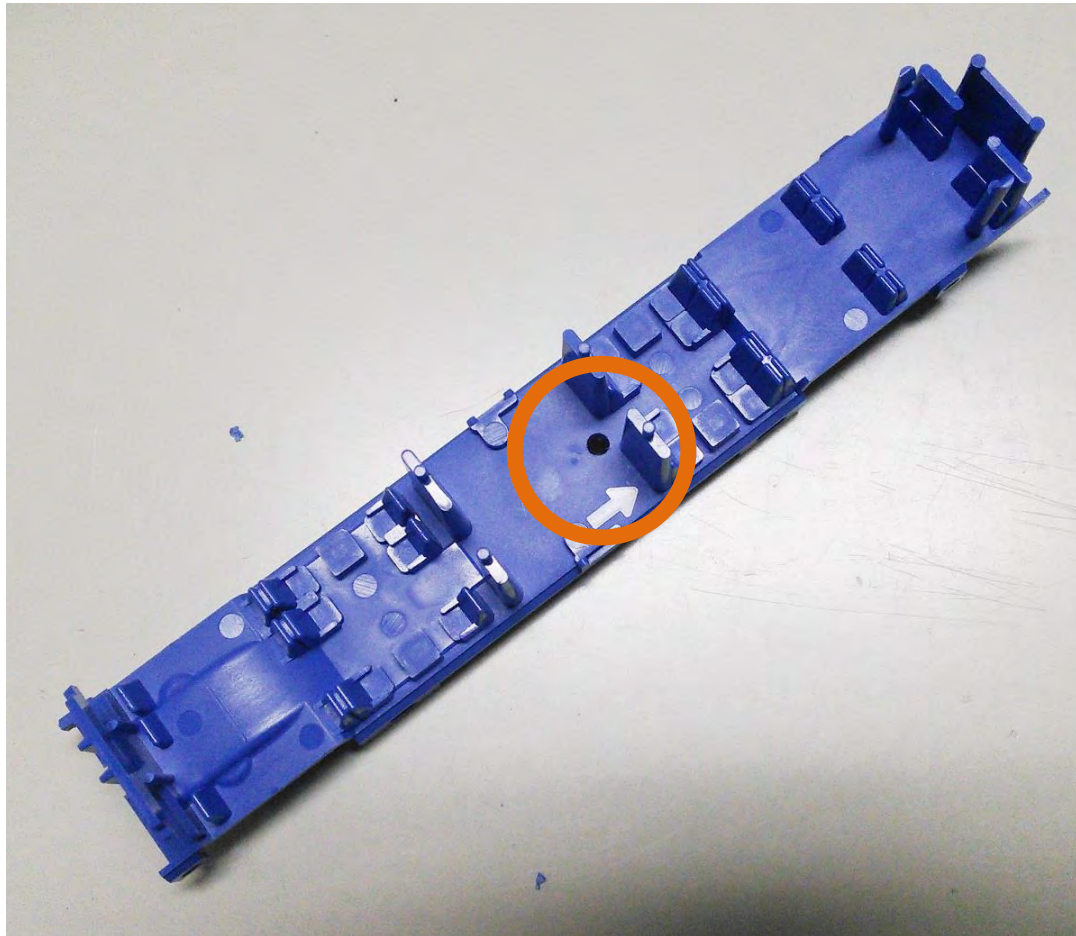
3. Preparation to install Decoder

- Please make a through-hole, using a drill, through the blue part (seats) to pass wires through.



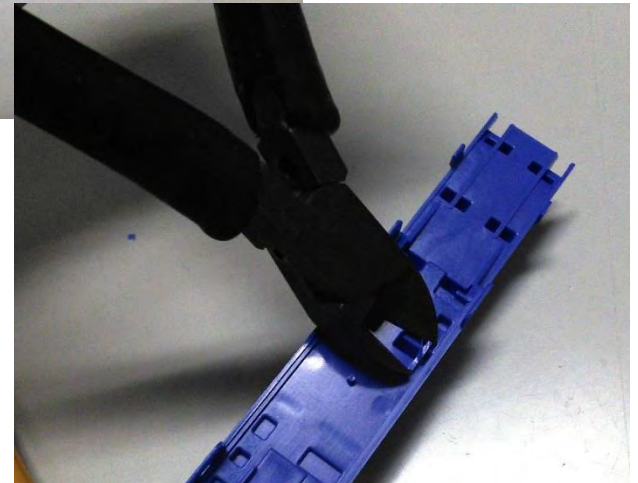
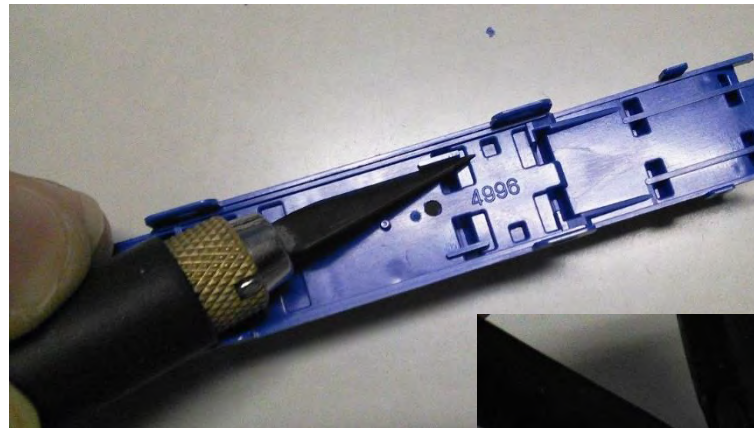
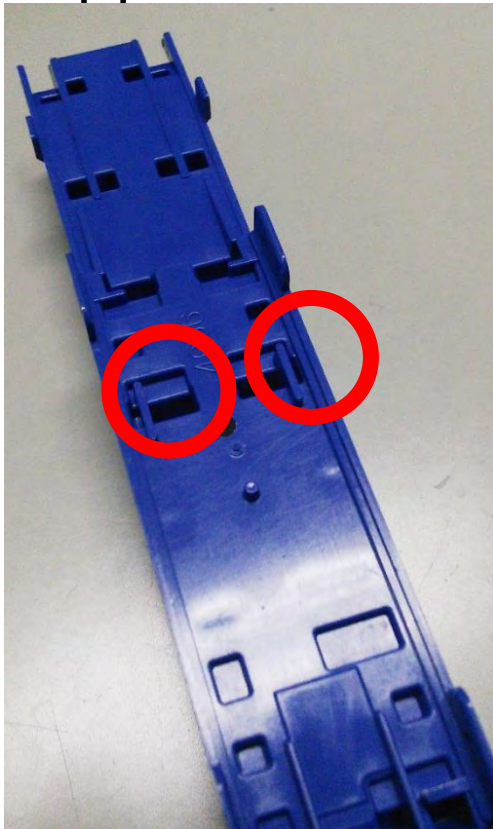
3. Preparation to install DCC Decoder

- Please make only one through-hole.



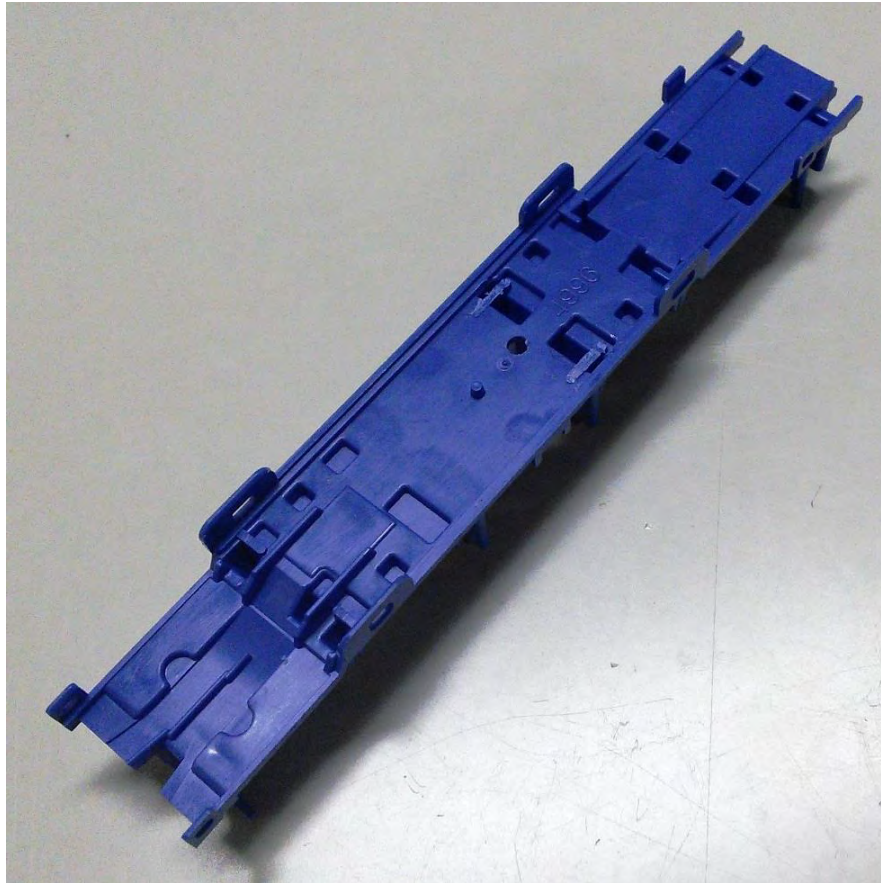
3. Preparation to install DCC Decoder

- Please scrape off the two sticking-out spots on the reverse side of blue part (seats) by using a knife or nippers.



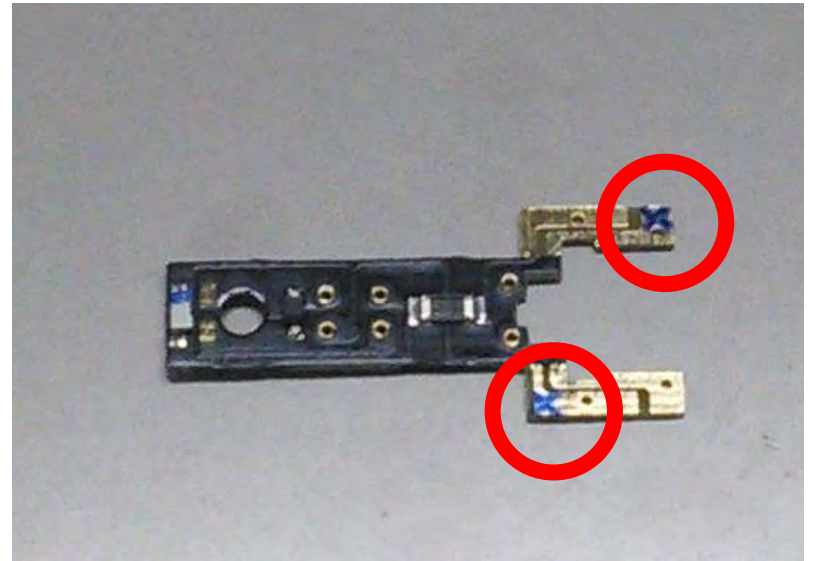
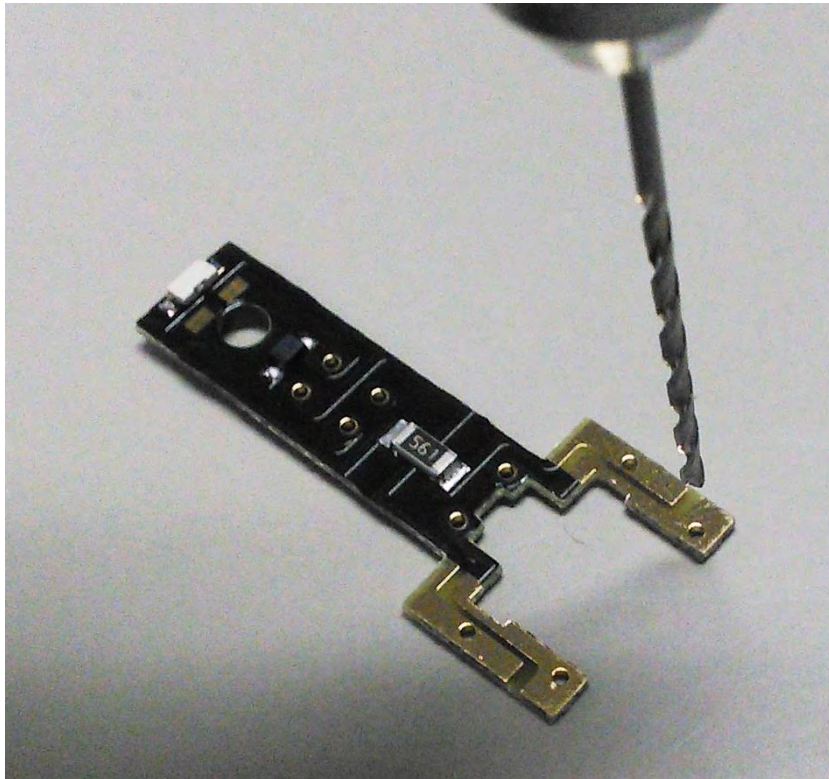
3. Preparation to install DCC Decoder

- Now the blue part is completely worked!



3. Preparation to install DCC Decoder

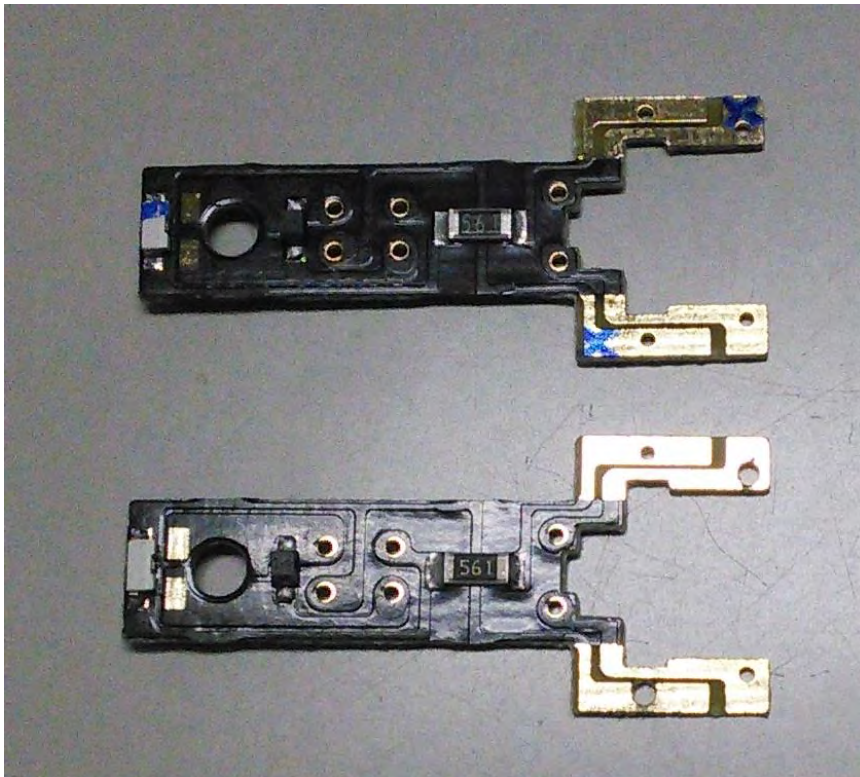
- Please work the headlight PCB. First, please damage the through-hole on the PCB.
Please use a drill to expand the holes and make them non-conductive.



The two holes should be worked. Please be careful not to work different holes!

3. Preparation to install DCC Decoder

- Comparison of the PCB before and after the work
The holes are enlarged.



Before
the work

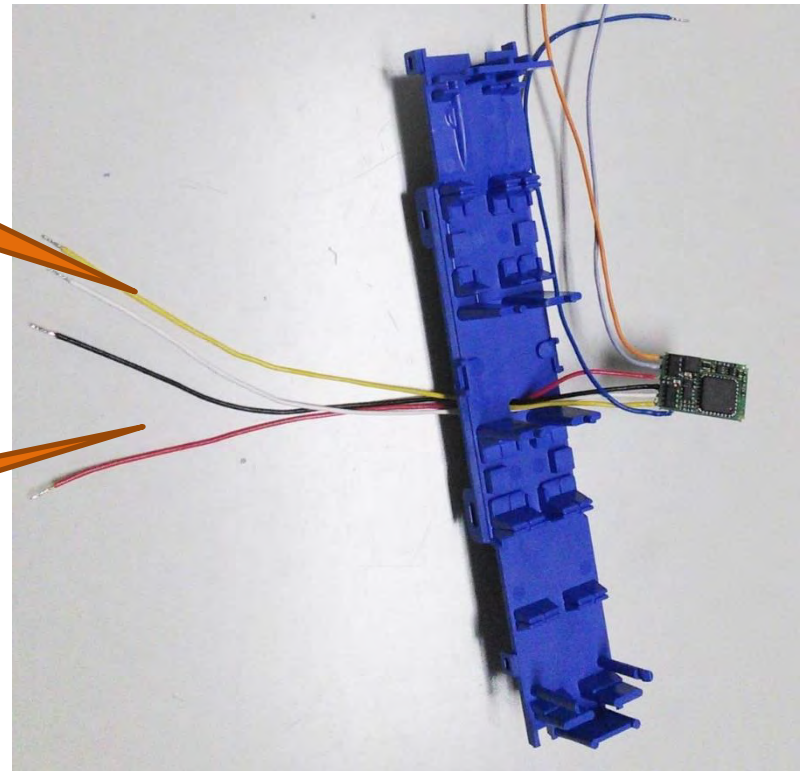
After
the work

4. Installation of DCC Decoder

- First pass the wires from the DCC decoder through the blue part (seats) . Depending on the decoder, the colors of wires vary. Please work, referring to the instructions for the decoder as well.

Wires for Decoder functions (Yellow, White)

Wires for track (Red, Black)

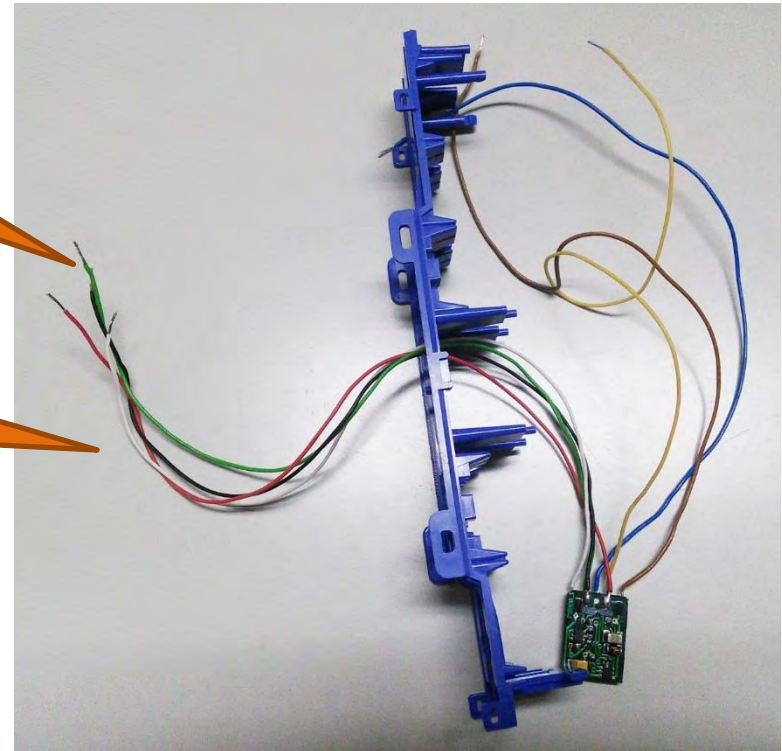
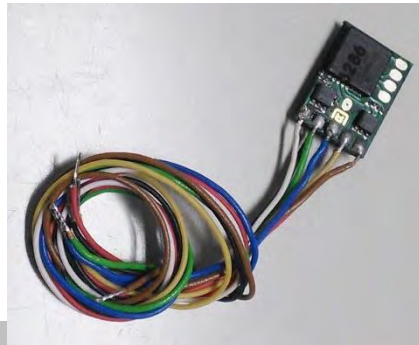


4. Installation of DCC Decoder

- These are the examples of installation of other makers' decoders.
- The preceding page : Lenz SILVER mini+
This page: Uhlenblock #73800

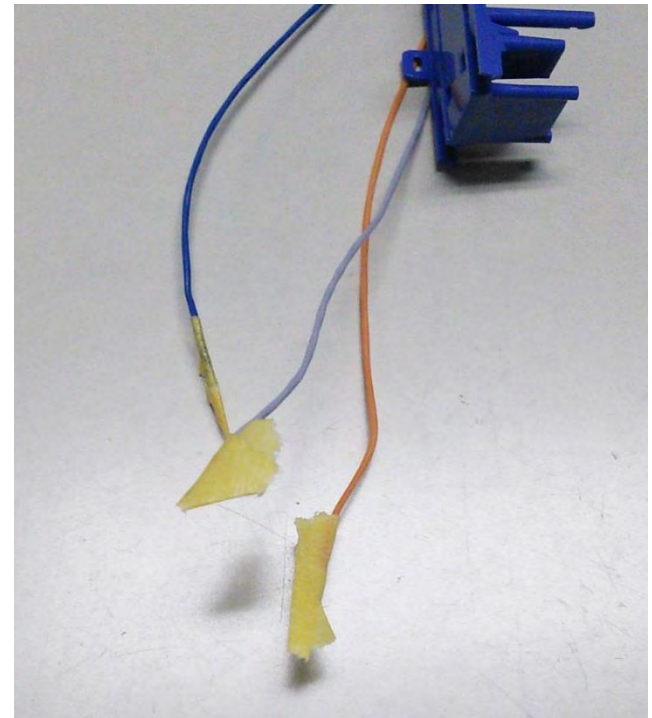
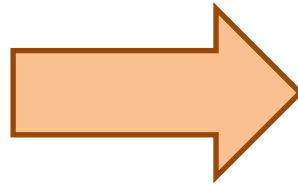
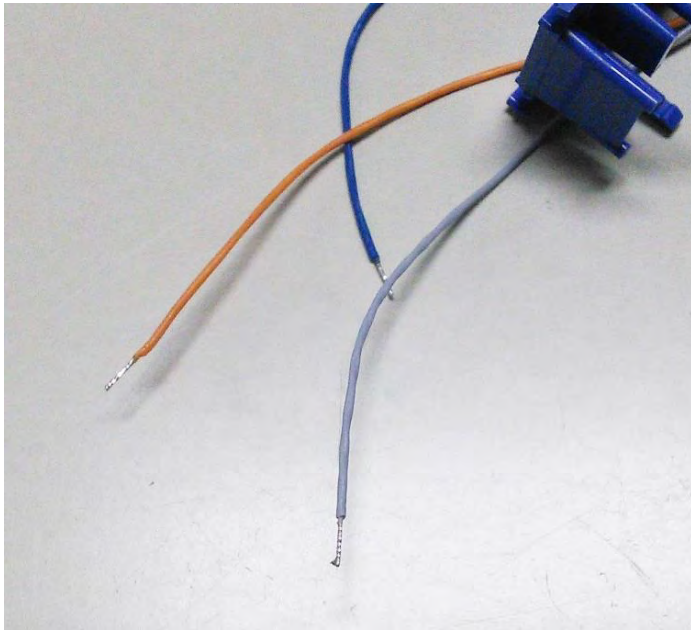
**Wires for Decoder
functions (Green, White)**

**Wires for Track (Red,
Black)**



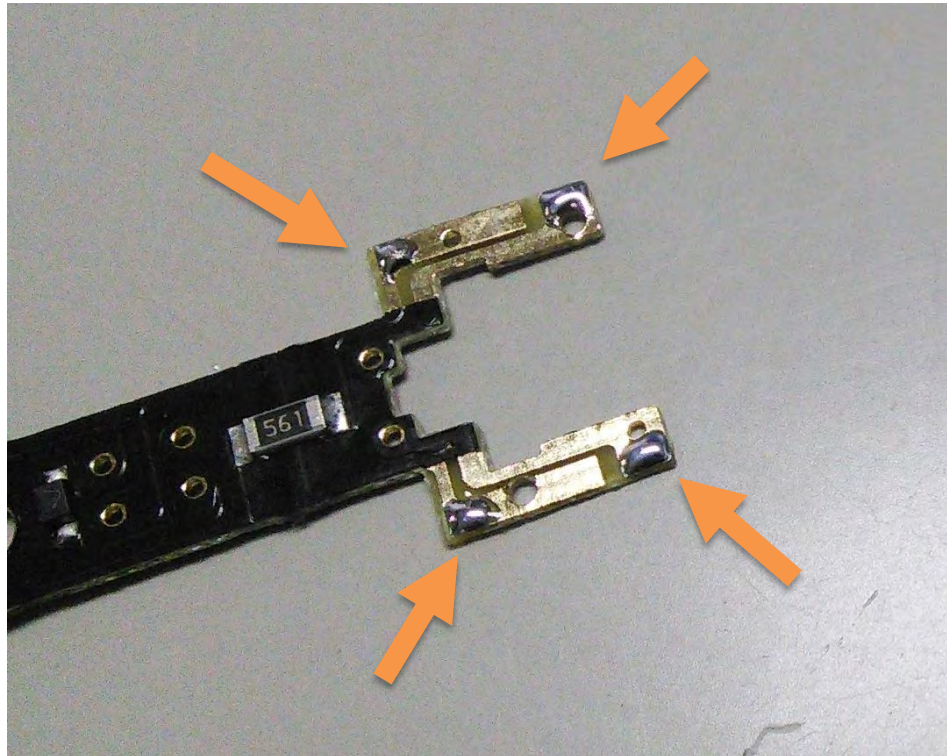
4. Installation of DCC Decoder

- Please insulate the surplus wires without fail. If not insulated, they may cause short circuit and damage the decoder.



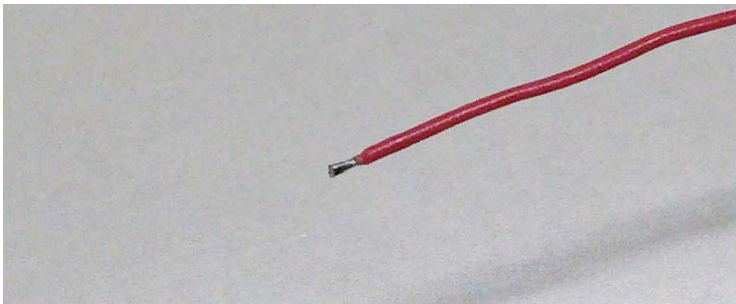
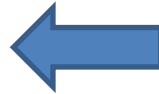
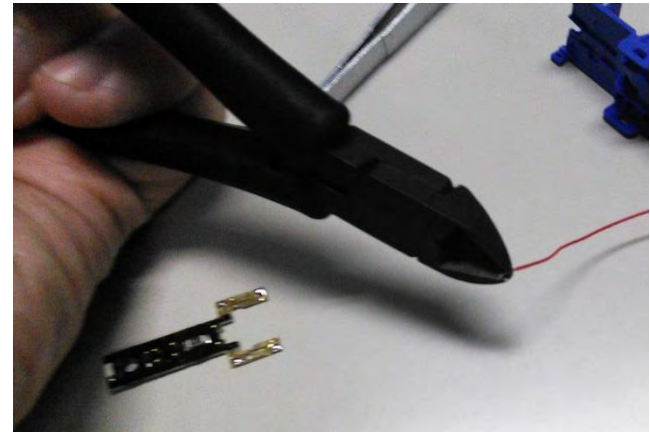
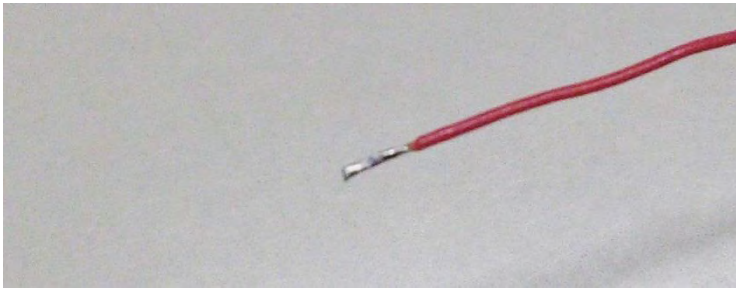
4. Installation of DCC Decoder

- Please pre-tin on the headlight PCB at the 4 spots indicated in the below picture.



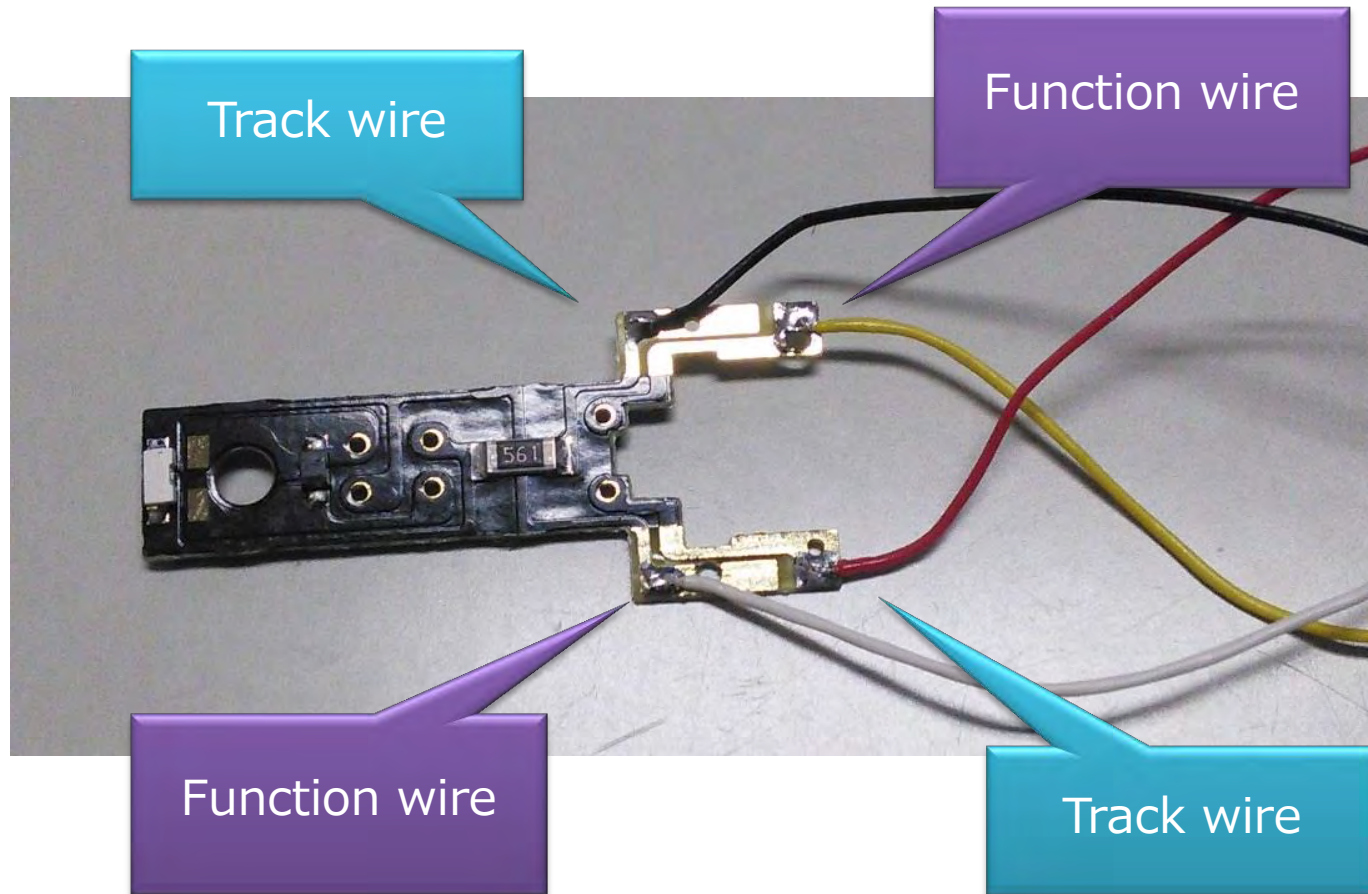
4. Installation of DCC Decoder

- Please peel off the cover on the wires and strip the metal wires in a short length.



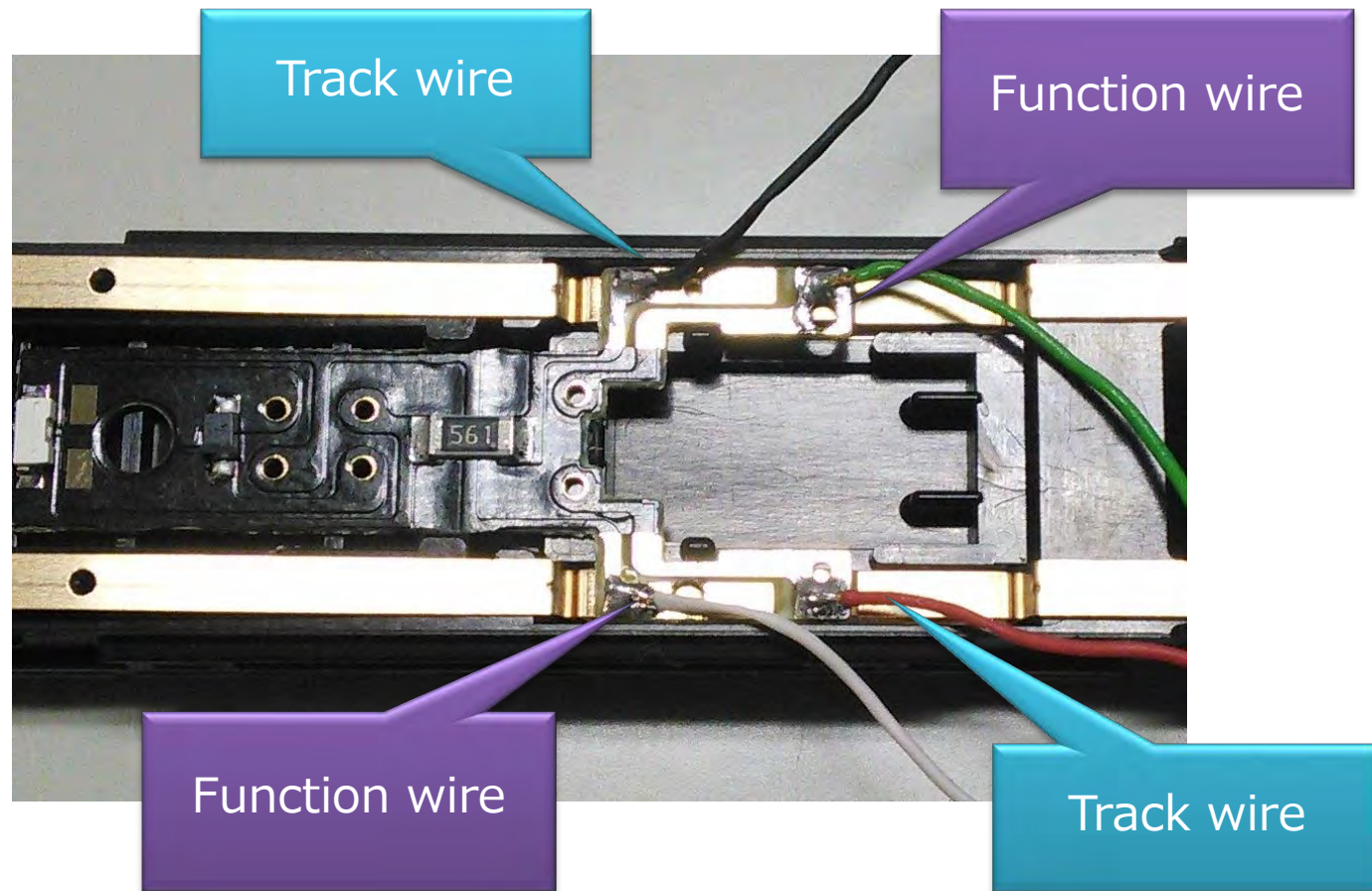
4. Installation of DCC Decoder

- Please solder up the wiring on the headlight PCB.



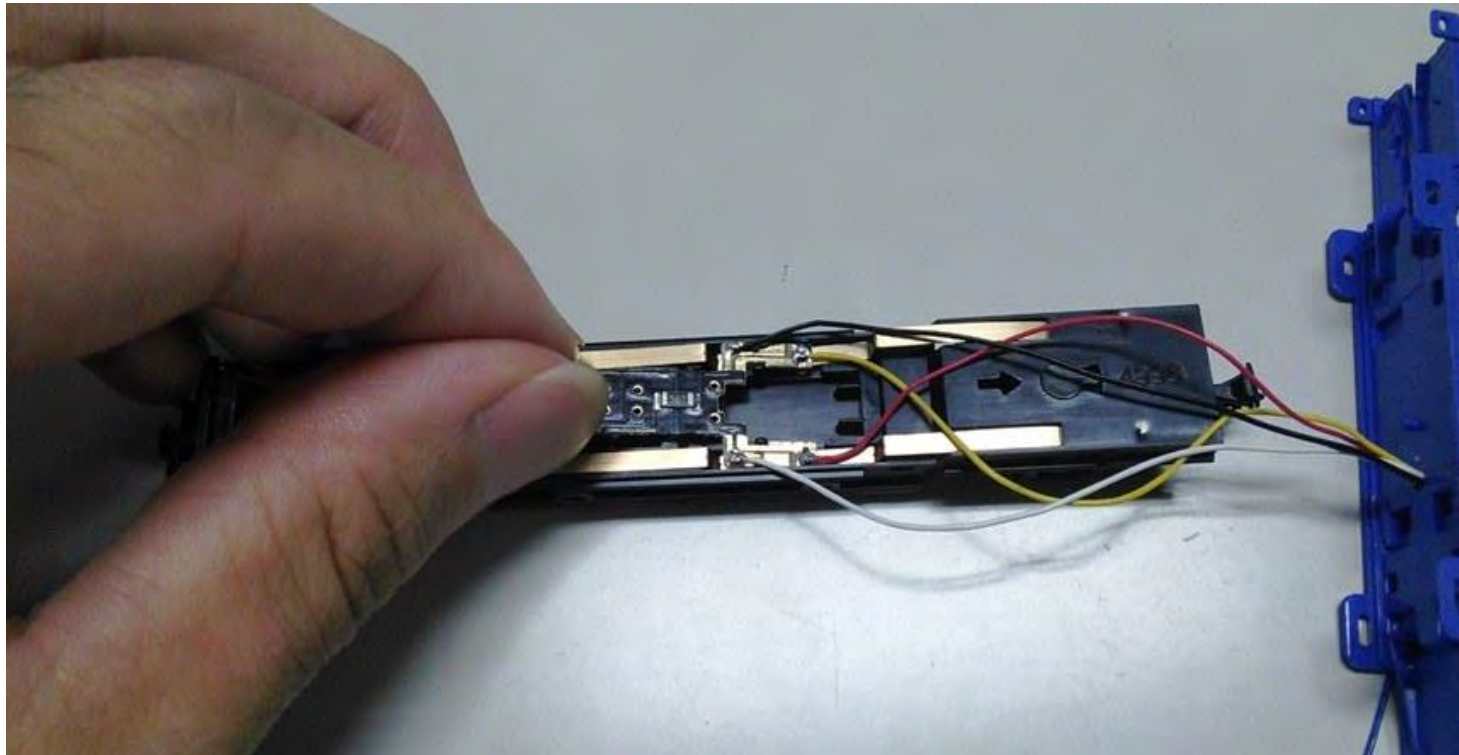
4. Installation of DCC Decoder

- This is an example of the soldering for another maker's decoder.



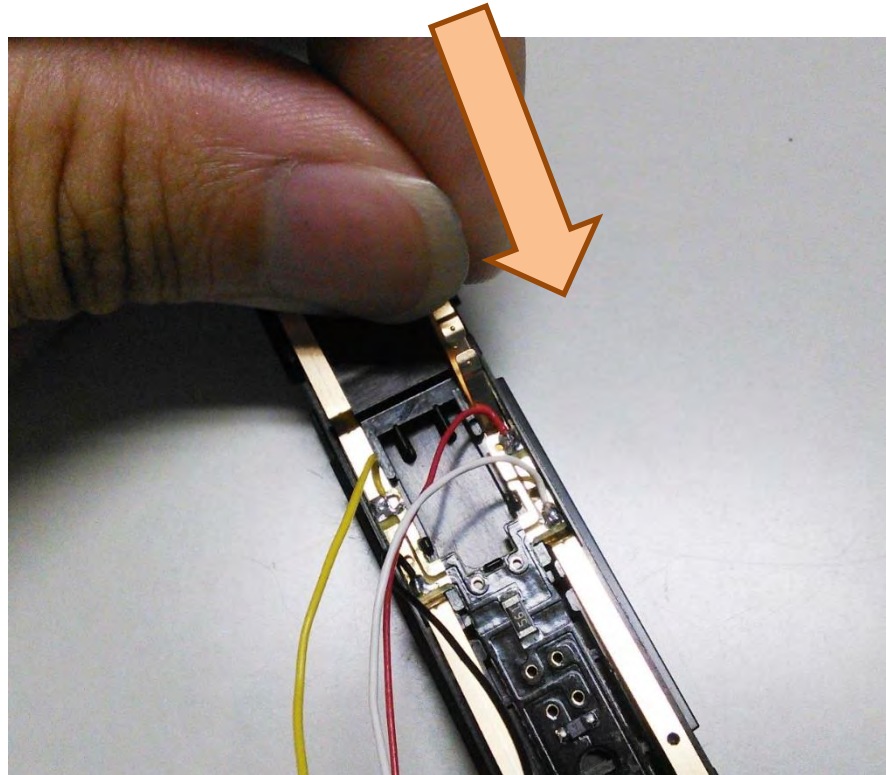
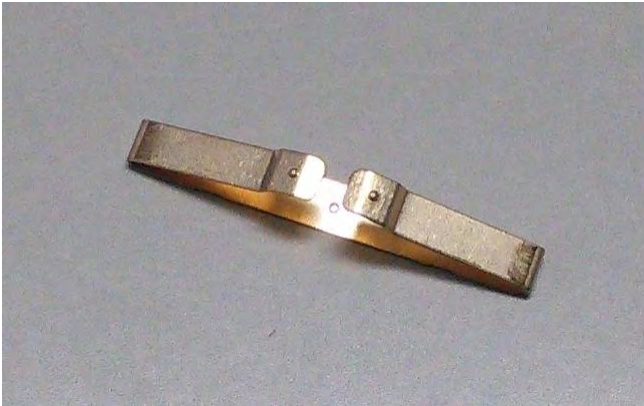
4. Installation of DCC Decoder

- Please install back the PCB attached with wiring. Please fit the PCB on the black part.



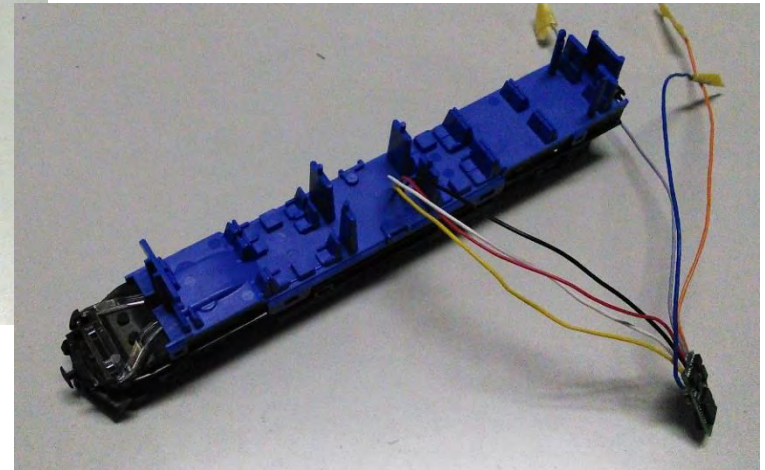
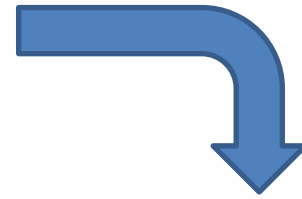
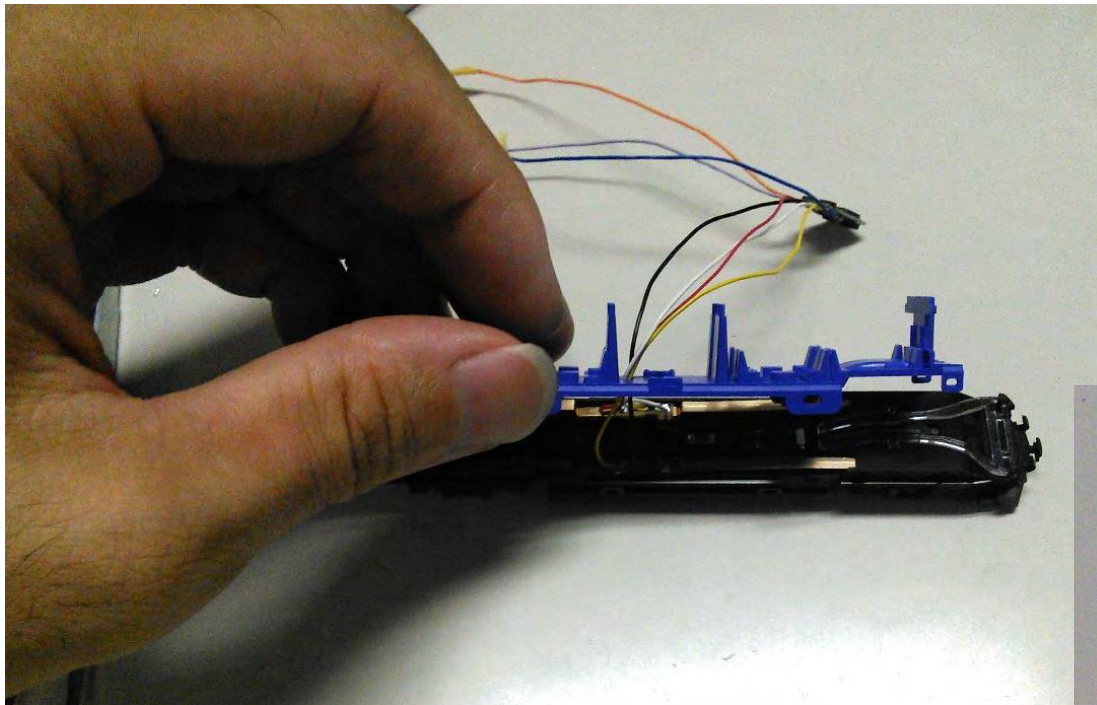
4. Installation of DCC Decoder

- Please install the contact spring by slipping it between the PCB and current collector clip.



4. Installation of DCC Decoder

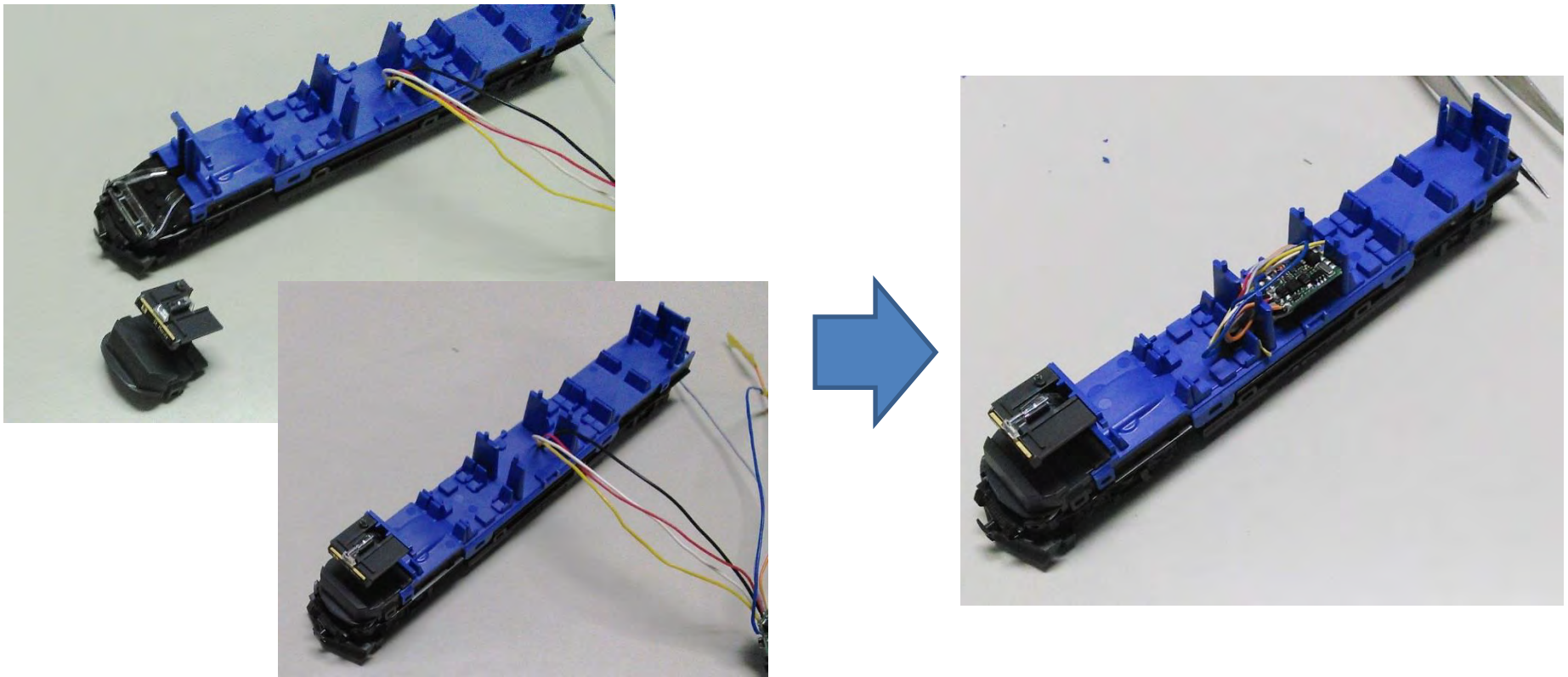
- Please install the blue part (seats) onto the black part.



Please be careful not to take off the PCB by pulling the wires too much.

4. Installation of DCC Decoder

- Please amount the cab and put the wiring neatly in order.



4. Installation of DCC Decoder

- Please fit the body shell over the chassis, now complete!

