Replacement of a position encoder board



www.solar-motors.com

Warnings!

Caution: before starting repair or replacement, make sure that grounding is provided. Repair or replacement can only be carried out by a qualified electrical/electronics engineer who has the knowledge of printed circuits and SMT technology.



- Short tabe, when can then be removed notif the motor.
- 1. Screw the three bolts on the motor cover so that they retreat inside to release the short tube, which can then be removed from the motor.

2. Pull the short tube (motor cover) away from the long tube (motor).





3. Pull the short tube (motor cover) away from the long tube (motor).

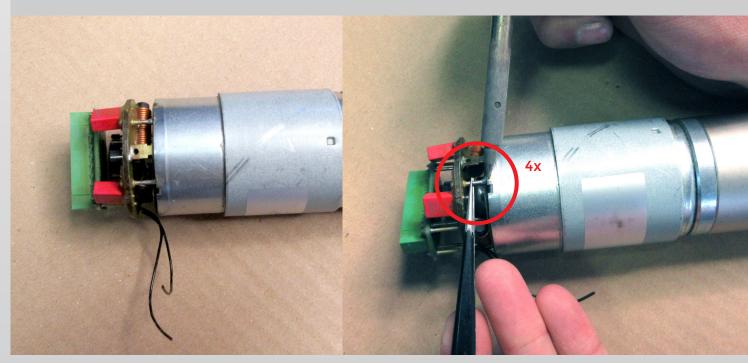


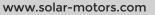
4. Cut off the cables that connect the motor with the end switch.

4.a Cut off or desolder the pads on the board.

SAT CONTRØL

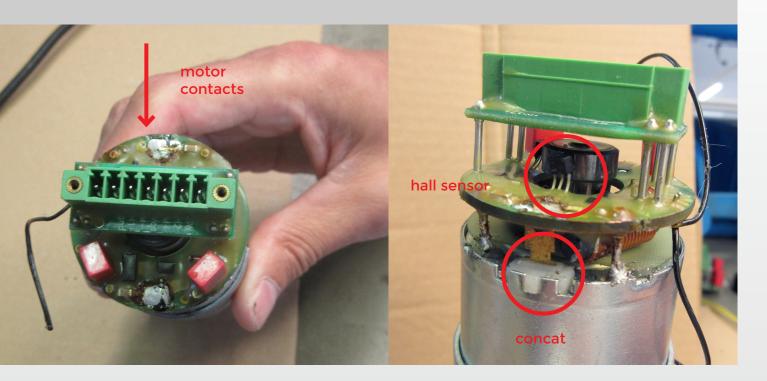
Want to get more?



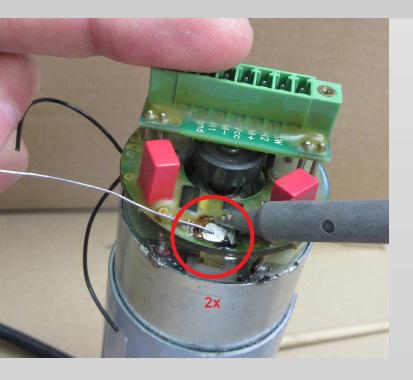


5. Motor connection contacts.

5.a Mark the hall sensor.

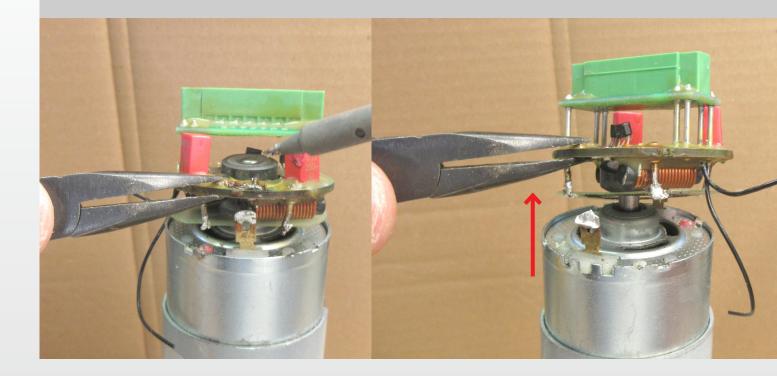


6. Desolder the contacts (2x) from the motor.



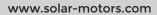


7. emove the TIV25-32 board.



8. Remove the insulation.







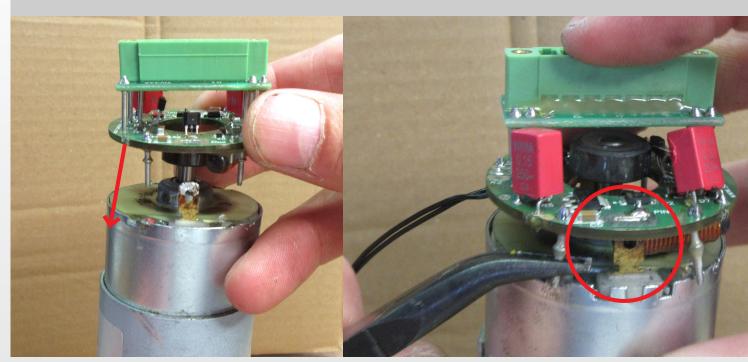
9. Clean the contacts with a solder removal pump.



10. Reinsert the insulation.

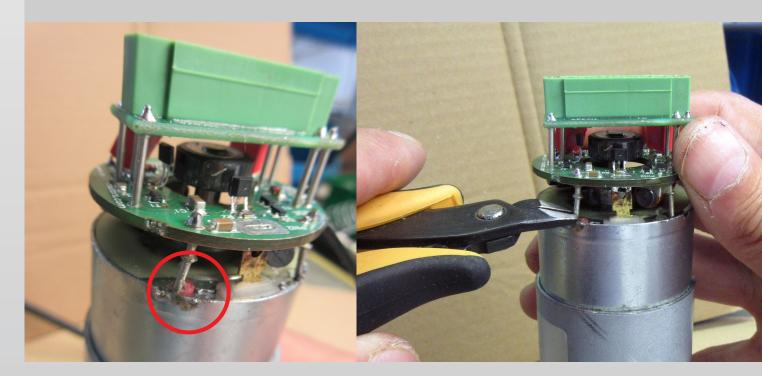






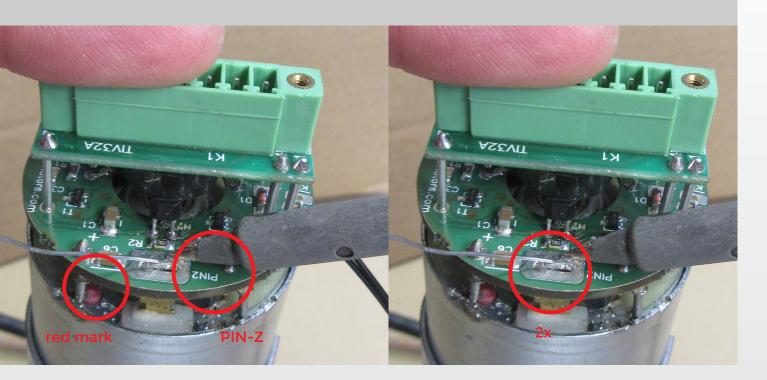
11. Press the TIv25-32 board to the motor so that the motor connector passes through the board.

12. Make the pads equal length.

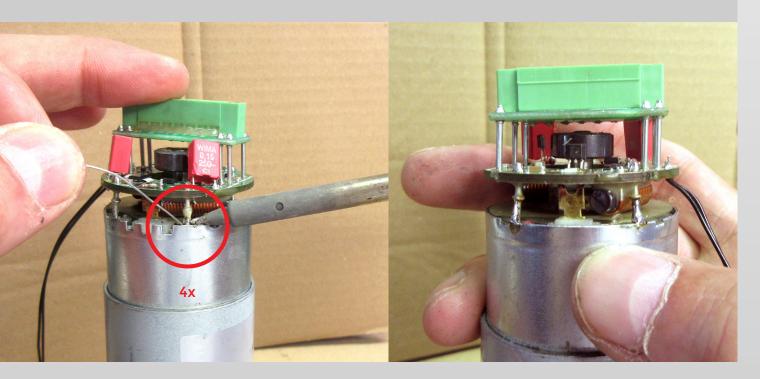




13. First, solder the connector. Contact PIN-2 is next to the red marking.

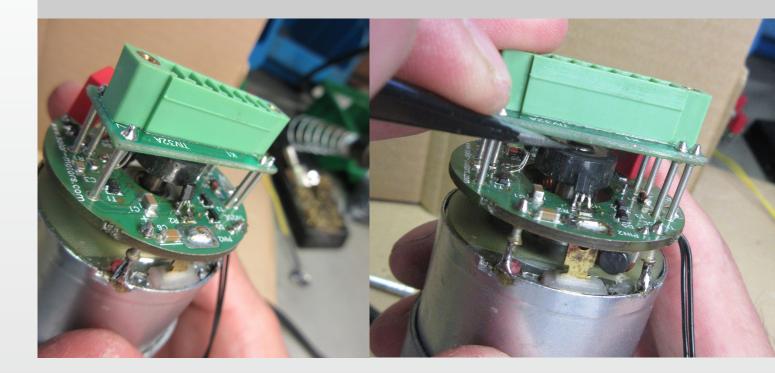


14.Solder the pads.





15. Move the magnet so that the hall sensor will be in the middle of the magnet.



16. Clip off protective plastic from the wires, and put shrink sleeves on the wires.





17. Using a soldering iron, couple the wires so that the gear-motor will be connected to the bearing.



18. Place the shrink sleeves over the soldered part. Heat the sleeves with a high-temperature burner so that they shrink to fit the wires.







19. Use adhesive tape to fix the wires so that they fit in the notch, thus making a straight connection from the end switch to the plate on the gear-motor.

20.Clip off protective plastic from the wires, and put shrink sleeves on the wires.



www.solar-motors.com



Page 10

21. Fit the motor cover in place, and screw the three bolts.



22. Screw the three bolts on the motor cover.







Sat Control d.o.o.

Poženik 10 4207 Cerklje na Gorenjskem Slovenia

Phone: +386 4 281 62 00

info@solar-motors.com info@sat-control.com

www.solar-motors.com www.sat-control.com

