

AC Drive | PLC | HMI | Servo Drive | Motor | High Power | Energy






Replacing Wearing Parts of ISMG Motor

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Contents

-  **How to replace resolver**
-  **How to replace power terminal**
-  **How to replace cooling fan**

How To Replace Resolver

- Order code of resolver: 13090001
- Remove the back air filter frame, as shown in the following figure.



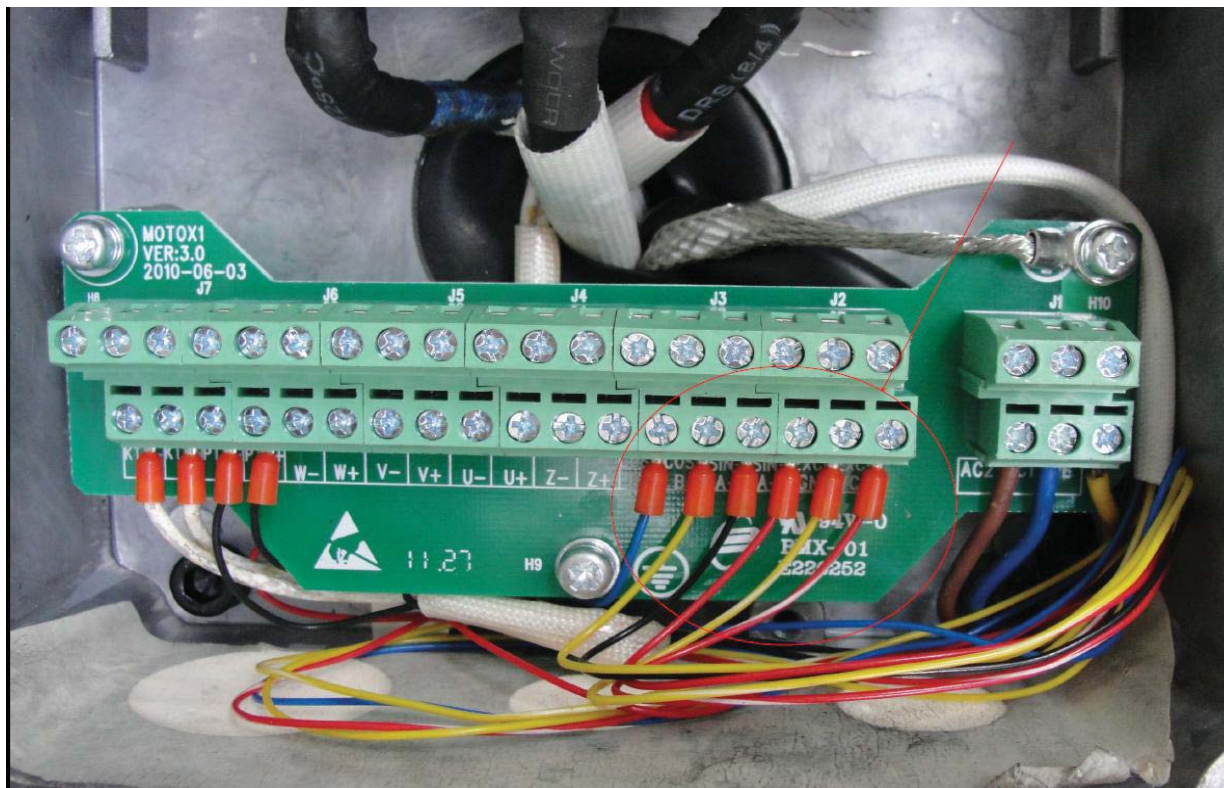
How To Replace Resolver

- Remove the back cover of the air filter, but do not disconnect the cabling of the cooling fan.



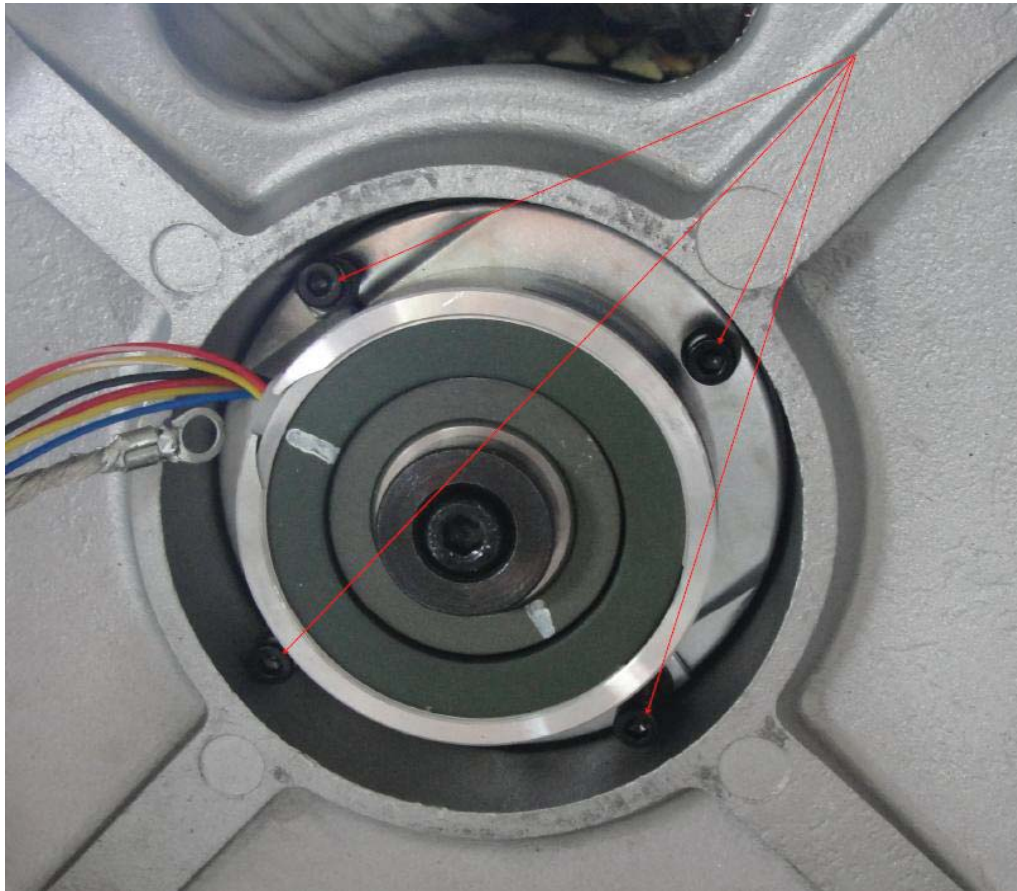
How To Replace Resolver

- Open the terminal box and remove the cables that connect the encoder one by one. Mark down positions of the terminals and the colors of the corresponding cables.



How To Replace Resolver

- Remove the screws from the resolver's fixed plate and then pull out the stator from the motor. Pay attention not to drop screws into the motor.



How To Replace Resolver

- Short-circuit the input terminals U, V, W of the motor to fix the rotor and then remove the middle M4 screw from the resolver. Pull out the resolver rotor. There is a height adjustment shim behind the resolver rotor. Pay attention not to drop it into the motor.



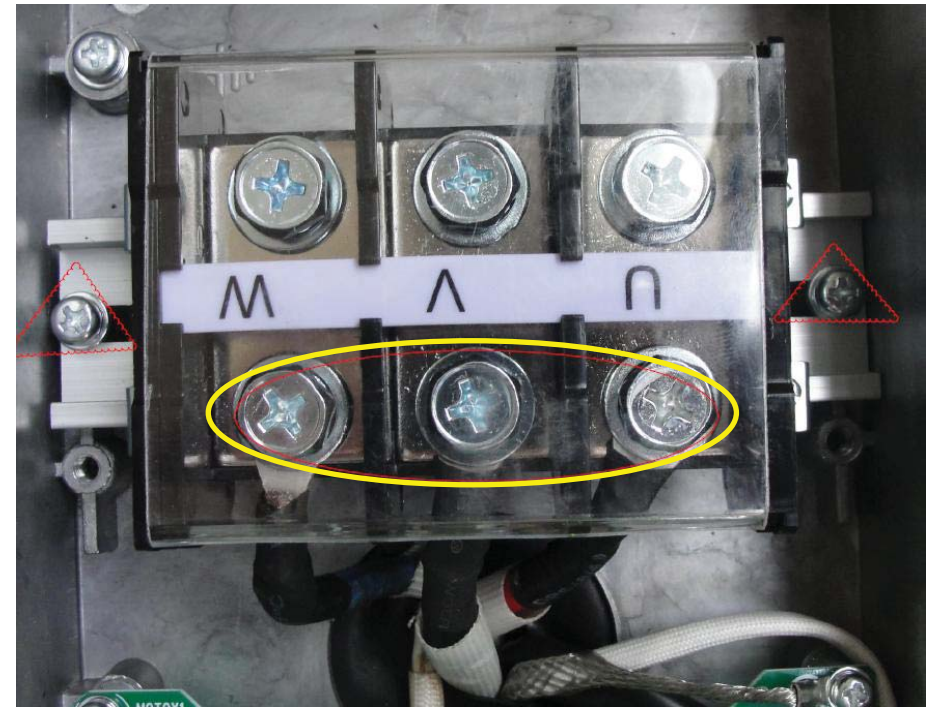
How To Replace Resolver

- Install the resolver in reversed steps of removal. Do not make the cooling fan jammed when installing the air filter frame.
- After the installation is complete, perform motor auto-tuning on the drive.
Then the replacement is complete.

How To Replace Power Terminal

1. Replace terminal block (order code: 15020212):

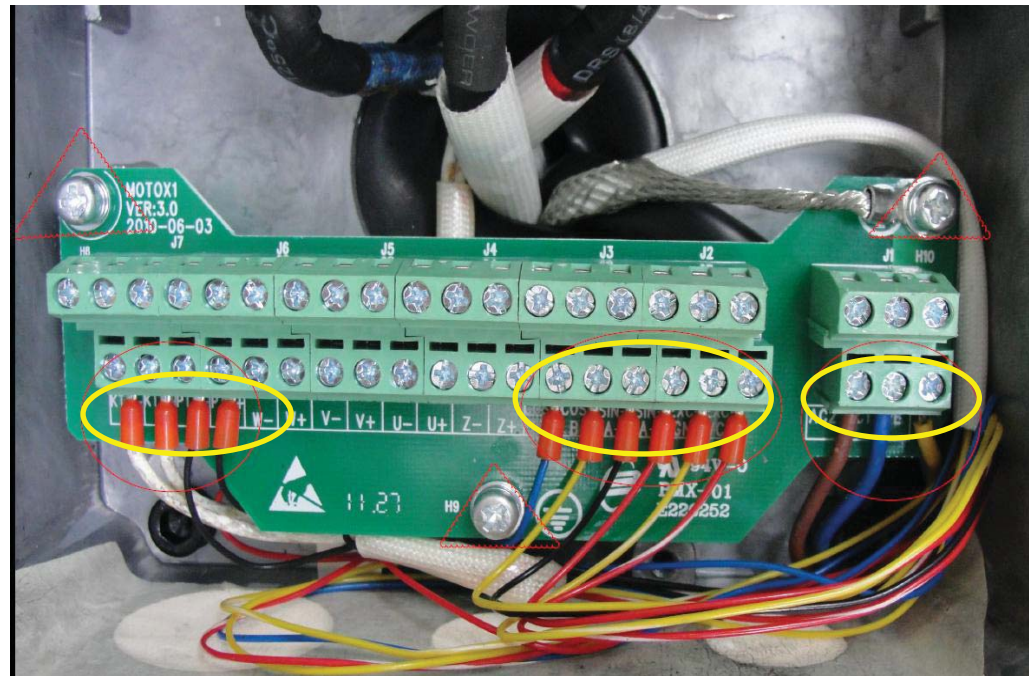
- a) Mark down the colors of the corresponding cables that connect terminals U, V and W.
- b) Loosen the screws on the terminals (marked in the ellipse) to disconnect the cables from the terminals.
- c) Remove the two screws (marked in the triangles).
- d) Remove the terminal block and install a new one. Then fix the screws securely.



How To Replace Power Terminal

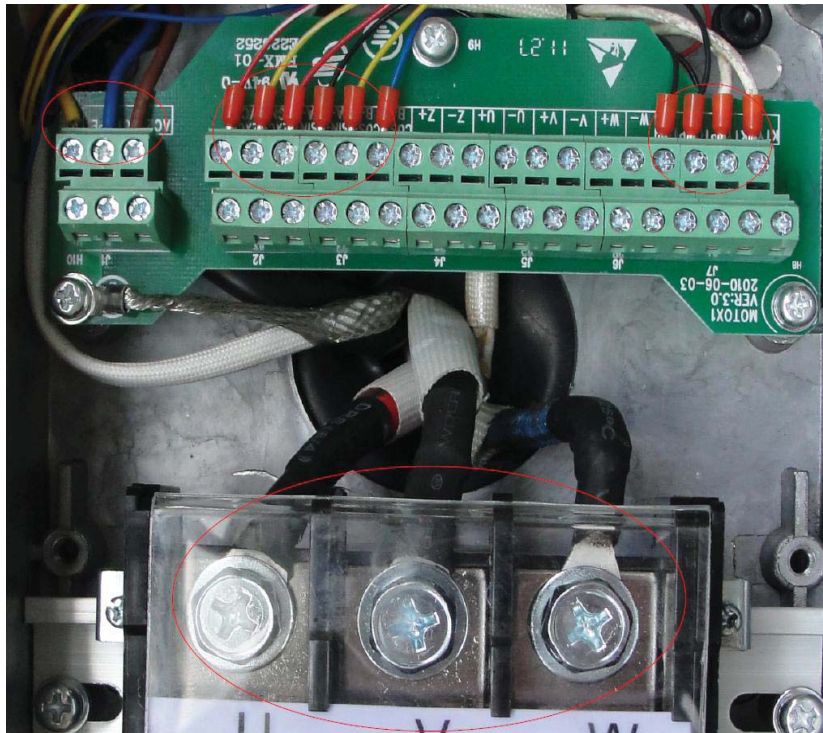
2. Replace PCB board (order code: 02020731)

- a) Record the cable connection positions of the PCB board.
- b) Loosen the screws of the PCB board (marked in the red ellipse) to disconnect the cables from the PCB board.
- c) Remove the screws (marked in the triangles) to loosen the PCB board.
- d) Remove the PCB board and place a new one. Then tighten the screws securely.



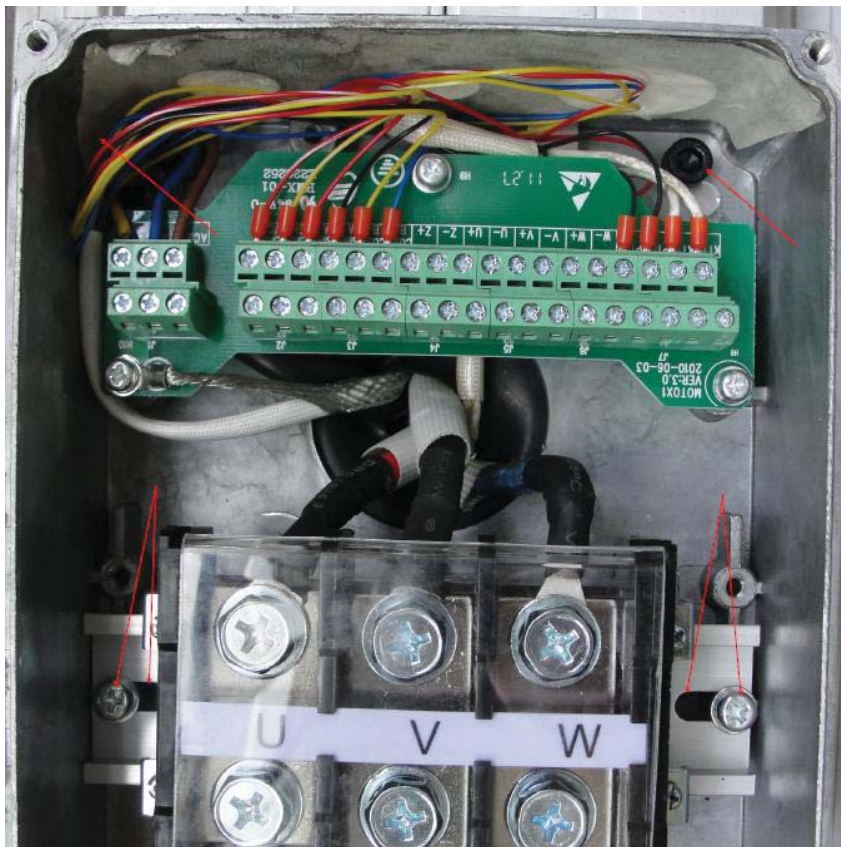
How to Replace Terminal Box 1

- Order code of terminal box: 31120024
- Record the cable connection positions and loosen the tight screws of the cables or remove the cables using soldering iron.



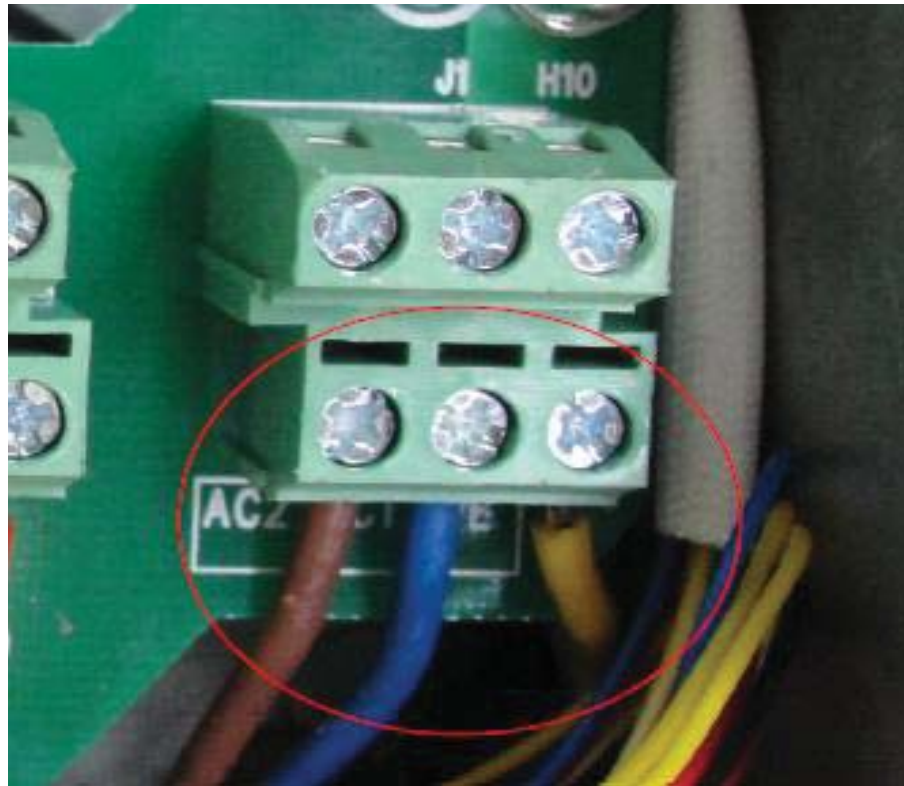
How to Replace Terminal Box 2

Disconnect the cables from the terminals and remove the screws that fix the terminal box. Remove the terminal box and place a new one. Then tighten the screws securely.



How To Replace Cooling Fan

- ❏ Order code of cooling fan: 23020001
- ❏ Open the terminal box and record the cable connection position of the cooling fan. Loosen and remove the connection screws and disconnect the cables from the terminals.



How To Replace Cooling Fan

- Loosen the connection screws of the air filter back cover and remove the back cover and the air filter frame.



How To Replace Cooling Fan

- Loosen the screws that fix the back cover of the motor and remove the back cover.



How To Replace Cooling Fan

- Remove the fixed screws, waterproofing gland and capacitor. Remove the cooling fan from the back cover of the motor and install a new one. Recover the motor in the reversed steps.



Special Tips

- When replacing the encoder, remember to install the seal ring (washer) at the original position. If there is any damage to the seal ring (washer), replace a new one in order not to affect the IP level of the motor.



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