

## INSTALLATION NOTES FOR STEPPER MOTOR BACK COVER

Thank you for purchasing our product. It was carefully designed and manufactured to be easily mounted on most common NEMA size square frame stepper motors to your satisfaction. If for any reason you are dissatisfied with this product, you will be cheerfully refunded the purchase price if the product is returned within 14 days of the purchase date.

**NOTE:** Although this cover was designed to be easily mounted and should pose no issues, we do not take any responsibility whatsoever for any damage to your motor or other equipment that may be caused due to improper installation or use of our product.

### TO INSTALL THE COVER ON YOUR MOTOR FOLLOW THESE STEPS

**NOTE:** Although in the instructions bellow we refer to the IP40 cover kit with a connector, same applies to the IP64 kit, with the exception that a gland is mounted instead of the connector and the cable is routed through the gland.

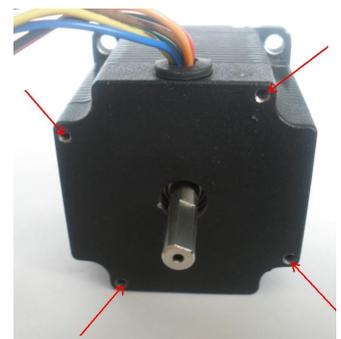
1. The covers come with pre-drilled centre marks. Use a 3mm drill bit to drill the mounting holes to suit your motor (**Figure 1**).
2. The cover mounts on the existing motor's tapped holes (**Figure 2**).



**Figure 1**

**NOTE:** Another option, although not recommended, is to drill and tap M3 holes at the 4 other corners of the motor and not use the existing holes of the motor.

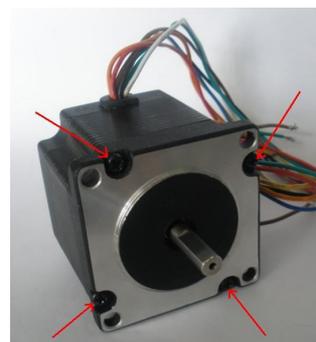
3. In most cases there is not enough thread depth left for the mounting screws, so the motor screws (**Figure 3**) need to be shortened. To do this, unscrew the motor screws ONE at a time (**Figure 4**) and file off a couple of millimeters from the screw length. A total thread depth of 3.5mm is required for the mounting screws.



**Figure 2**

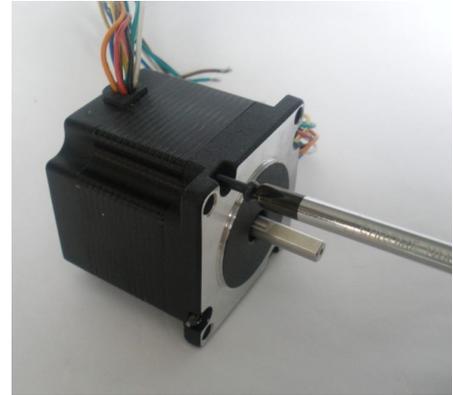
**CAUTION!** Do NOT unscrew all the four screws at once as the motor parts may fall a part.

4. Tighten the motor screws.
5. Unscrew the locking nut from the panel mount connector and remove it together with the washer (**Figure 5**).



**Figure 3**

6. Route the motor wires through connector nut, the washer and the hole in the cover in the order listed (**Figure 6**).
7. Cut off the wires length if required.
8. Solder the motor wires to the panel mount connector (consult your motor manufacturer for wiring diagrams). **Figure 7**
9. Insert the panel mount connector to the hole in the cover and lock it with the nut and washer from the inside.
10. Attach the cover to the back of the motor. Make sure no wires are trapped between the motor and cover.
11. Screw the mounting screws half way.
12. Press the cover as shown in **Figure 8** to remove any gaps (especially important when mouting the IP64 sealed cover) and gently tighten the mounting screws.

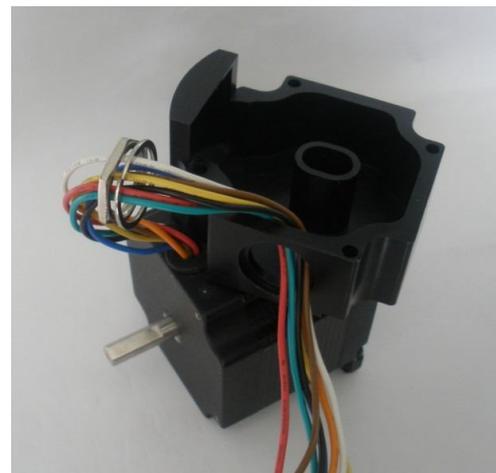


**Figure 4**

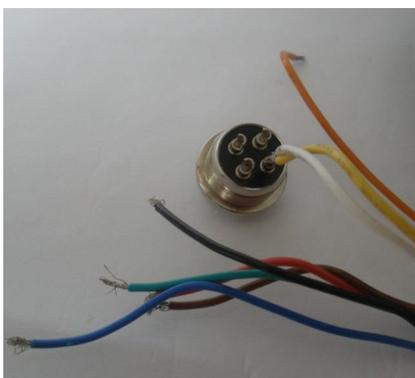
**CAUTION:** Do NOT over tighten the mounting screws, the threads in the hole may tear.



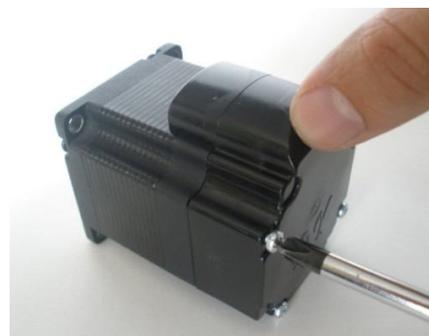
**Figure 5**



**Figure 6**



**Figure 7**



**Figure 8**

13. Remove the screw from the cable end connector (**Figure 9**).
14. Release the bayonet lock and take apart the connector.



**Figure 9**



**Figure 10**

15. Route the cable from your controller through the cable end connector and solder it to the pins in the order corresponding to that you used on the panel mount connector (**Figure 10**). Note the pin numbering on the connector.
16. Plug the connector (**Figure 11**).



**Figure 11**