

# SubDrive/MonoDrive NEMA 4 Fan Replacement Install Guide



## SUBDRIVE/MONODRIVE NEMA 4 FAN REPLACEMENT INSTALL GUIDE

The SubDrive/MonoDrive NEMA 4 cooling fan moves air to keep the temperature lower for the higher current components in the drive in conjunction with the heatsink, allowing the SubDrive/MonoDrive to operate efficiently and safely.

In most cases you will not have to change the fan, but if it is necessary to do so, follow these simple instructions for easy fan replacement in the SubDrive/MonoDrive NEMA 4 products listed below.

SUBDRIVE/MONODRIVE	FAN KIT #
SubDrive75 NEMA 4	225 635 901
MonoDrive NEMA 4	
SubDrive100/150 NEMA 4	225 635 902
MonoDriveXT NEMA 4	

### **⚠ WARNING**

Serious or fatal electrical shock may result from contact with internal electrical components. **DO NOT**, under any circumstances, **ATTEMPT TO CHANGE FAN** until power has been removed from drive, capacitors are discharged, and 5 minutes have passed for internal voltages to discharge! Before replacing fan, make sure fan is not working properly by performing the simple fan test below:

### Fan Test

- Fan can be unplugged from the drive and tested with a 9V battery to show functionality.
  - Connect the red (+) lead from the battery to the red fan connector and the black (-) lead from the battery to the black fan connector.
  - Connect the battery clip to the 9V battery. The fan should spin freely and quietly.
- First, test the fan with a battery to see that it is working properly. To test the fan power supply in the drive, reinstall the fan and power the drive above 500 watts.



If the fan does not perform as stated above, note the error and consult your local Franklin Electric Representative or call Franklin Electric's Submersible Service Hotline at 1-800-348-2420.

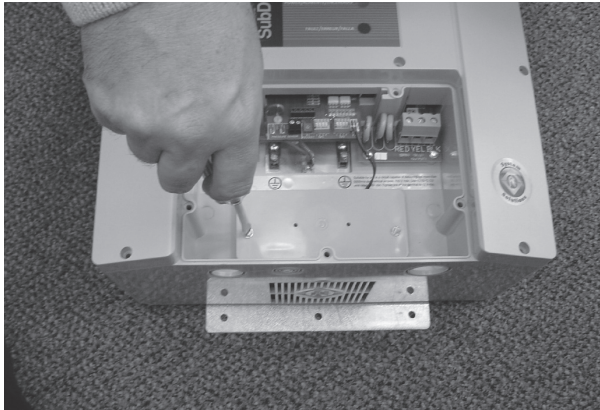
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## **⚠ WARNING**

**REMOVE ALL INCOMING ELECTRICAL POWER TO THE SUBDRIVE. THIS IS A NON-POWERED ELECTRIC PROCEDURE.**

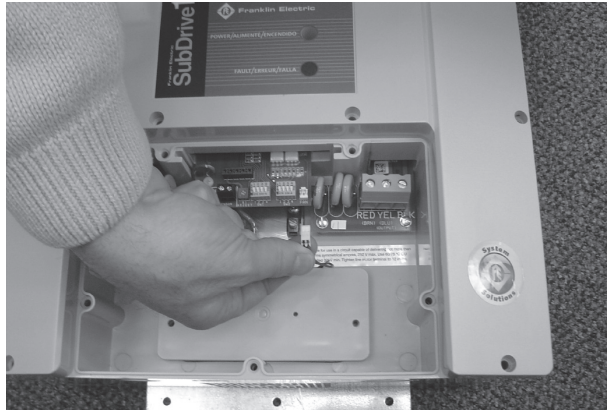
### **STEP 1:**

Remove the 2 screws holding fan assembly as shown.



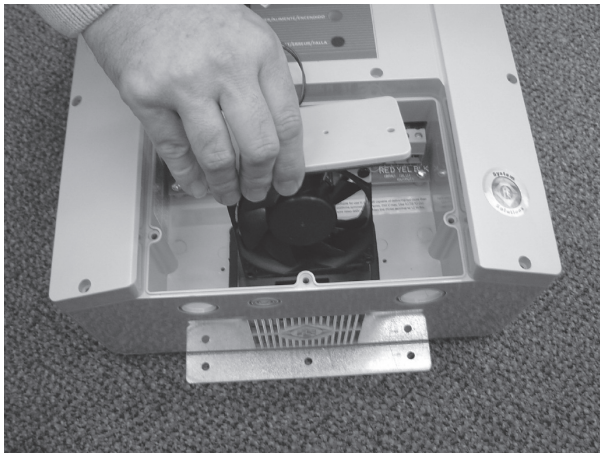
### **STEP 2:**

Unplug fan from control board connector as shown.



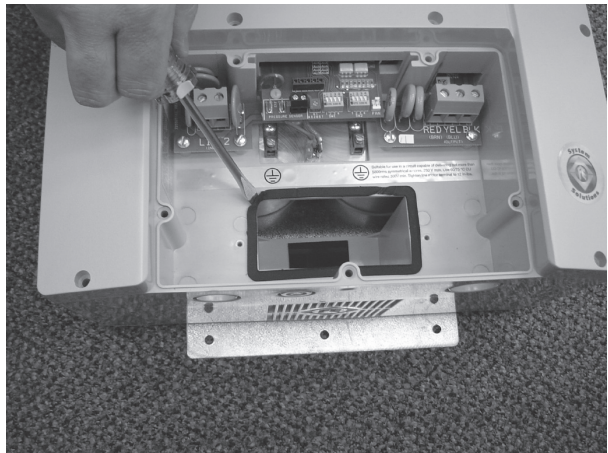
### **STEP 3:**

Remove fan assembly from drive as shown.



### **STEP 4:**

Remove existing gasket and adhesive from drive as shown.

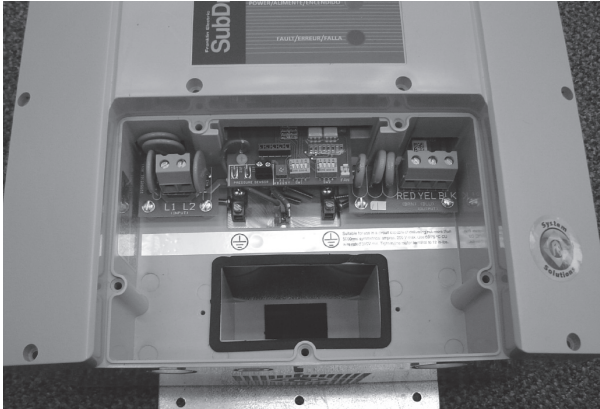


# SUBDRIVE/MONODRIVE NEMA 4 FAN REPLACEMENT INSTALL GUIDE

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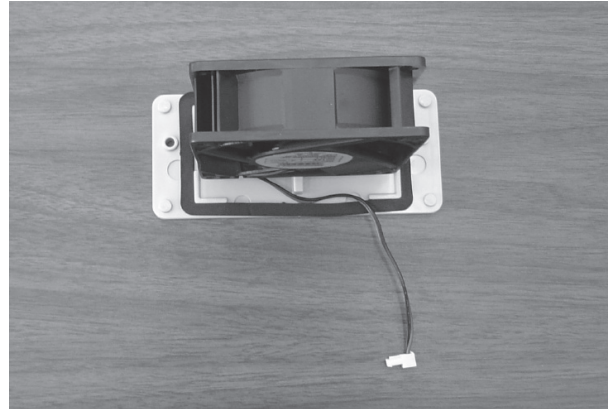
## STEP 5:

Apply new gasket to drive as shown.



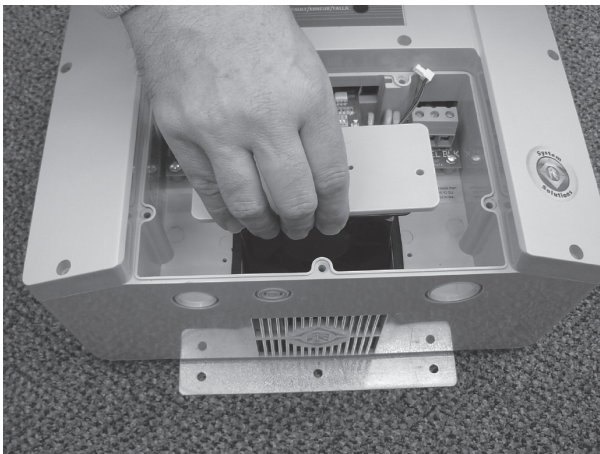
## STEP 6:

Route fan wires on new fan assembly as shown.



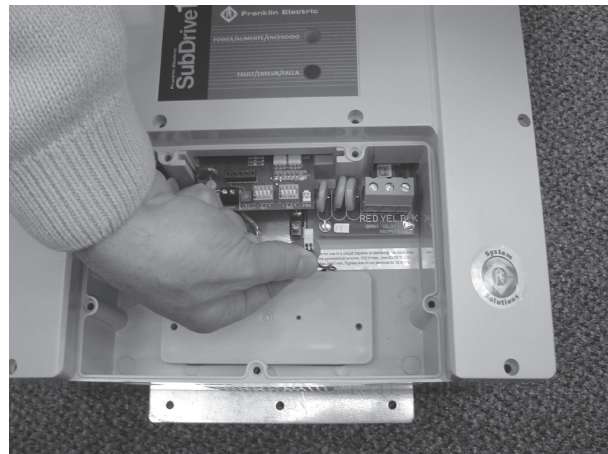
## STEP 7:

Place new fan assembly in drive as shown.



## STEP 8:

Plug fan wires into control board connector as shown.

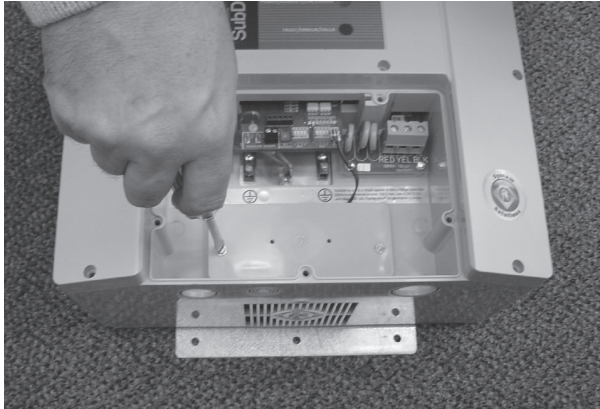


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### STEP 9:

Screw fan assembly into drive as shown.



### STEP 10:

Fan installation complete. Verify that fan turns on and is working properly.

If you experience any difficulty in performing these steps, consult your local Franklin Electric representative or call Franklin Electric's Submersible Service Hotline.

**Submersible Service Hotline: 1-800-348-2420**

