

# SubDrive/MonoDrive NEMA 3R

## Fan Replacement Install Guide



**Franklin Electric**

## SUBDRIVE/MONODRIVE NEMA 3R FAN REPLACEMENT INSTALL GUIDE

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### **⚠ 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 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.
- Test that the fan power supply works properly.
  - Cycle power to the drive.
  - Verify that the fan runs for 3–5 seconds during the power-up initialization.



If the fan does not perform as stated above, note the error and consult your local Franklin Electric Representative or call Franklin Electric's Technical 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:**

Verify the Fan Replacement Kit.

SUBDRIVE/MONODRIVE	SIZE	FAN KIT #	FAN COVER
SubDrive15 and MonoDrive	80 mm (3.15")	226545901	Integrated
SubDrive20/30 and MonoDriveXT	80 mm (3.15")	226545902	Integrated



**Integrated Enclosure Fan Cover**

### **STEP 2:**

Remove rivets from bottom of enclosure.

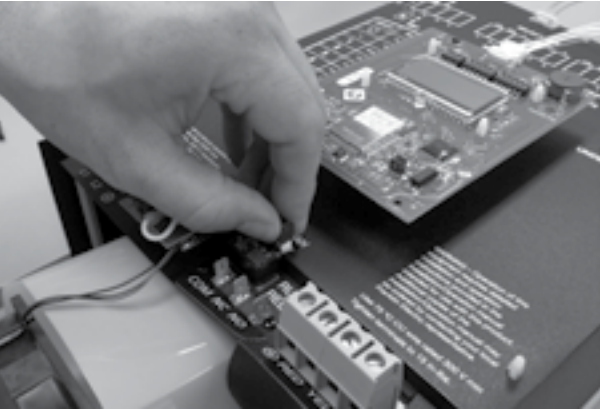


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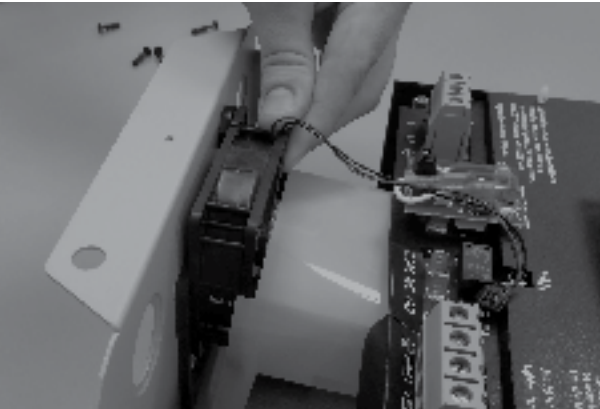
### STEP 3:

Disconnect power connection from main board.



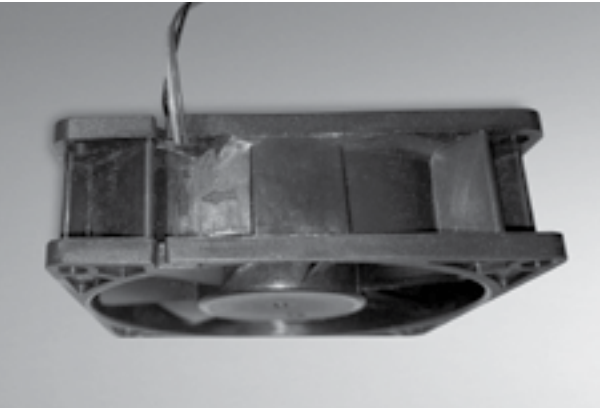
### STEP 4:

Remove fan from enclosure.

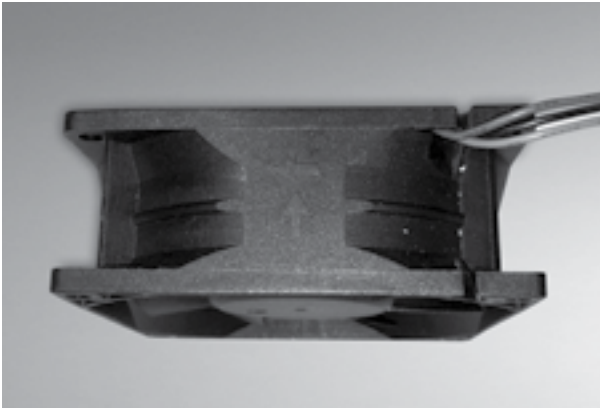


### STEP 5:

Locate airflow indication arrow on side of fan. Position fan so that air is directed into the enclosure.



1.1 kW (MonoDrive and SubDrive15)



2.2 kW (MonoDriveXT and SubDrive20/30)

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### STEP 6:

Install replacement fan into enclosure.



### STEP 7:

While holding fan in place with one hand, secure fan using the supplied plastic rivets to enclosure. To install rivet, first insert outer plug then insert plunger to secure.



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### STEP 8:

Reconnect power connection.



### STEP 9:

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 Technical Service Hotline.

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



226546101 Rev. 0 09-14



**Franklin Electric**

9255 Coverdale Road, Fort Wayne, Indiana 46809  
Tel: 260.824.2900 Fax: 260.824.2909  
[www.franklin-electric.com](http://www.franklin-electric.com)