



SEW Maintenance Series

Replacing a Stator



Objectives

- After reviewing the following information you will be able to accomplish the following:
 - Remove an existing stator from an SEW motor
 - Install a replacement stator



Tools and Materials

- What you will need:
 - 1 Replacement Stator
 - 1 Metric Socket-set w/ Wrench
 - 1 Medium Flat Tip Screwdriver
 - 1 External Snapping Pliers
 - 1 Torx-bit Driver
 - 1 Medium Dead-blow Hammer
 - 1 Pair of Cutting Pliers



Safety

- Always follow the proper lockout/tagout procedures.



- Use the proper safety equipment at all times.





Removing Existing Stator



Step 1

- Disconnect all power sources to the motor.



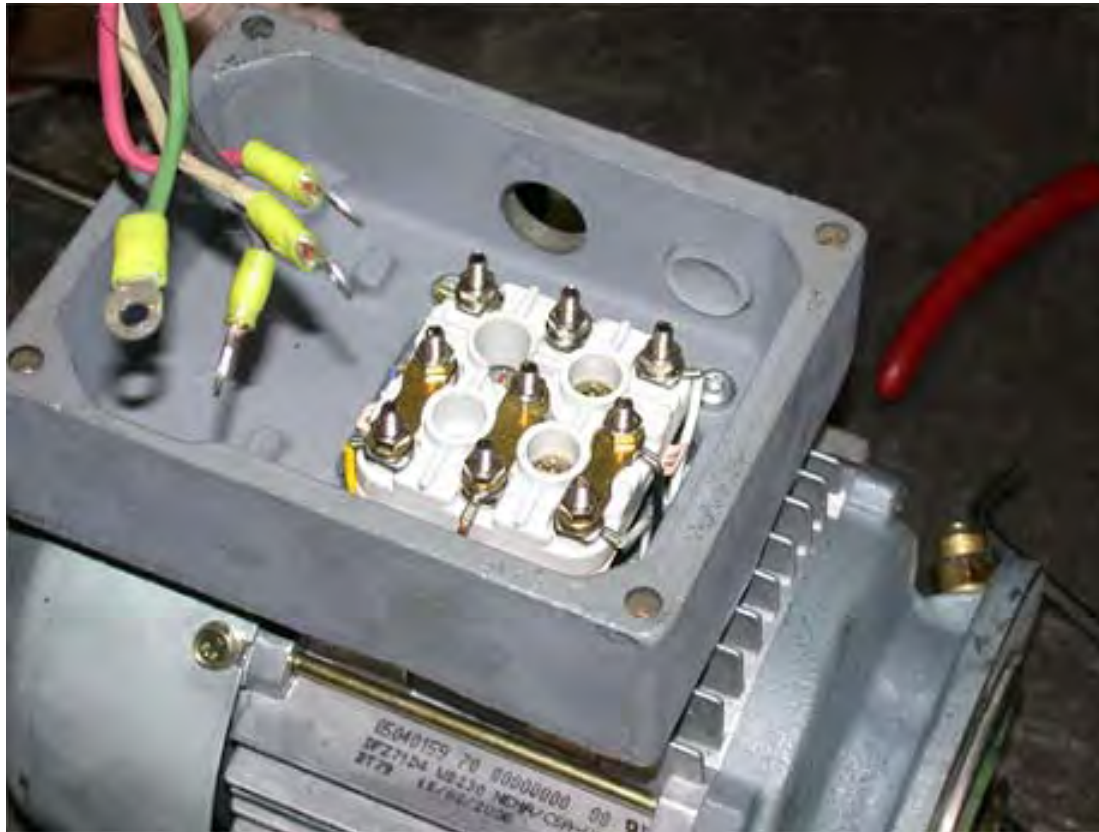
Step 2

- Remove the conduit box lid using the appropriate metric socket.



Step 3

- Disconnect the power wires from the motor.



Step 4

- Remove the four (4) Torx screws inside the conduit box.



Step 5

- Remove the conduit box from the motor.



Step 6

- Remove the conduit box gasket from the motor.



Step 7

- Using a metric nut-driver, remove the 4 small screws that hold the fan guard in place.



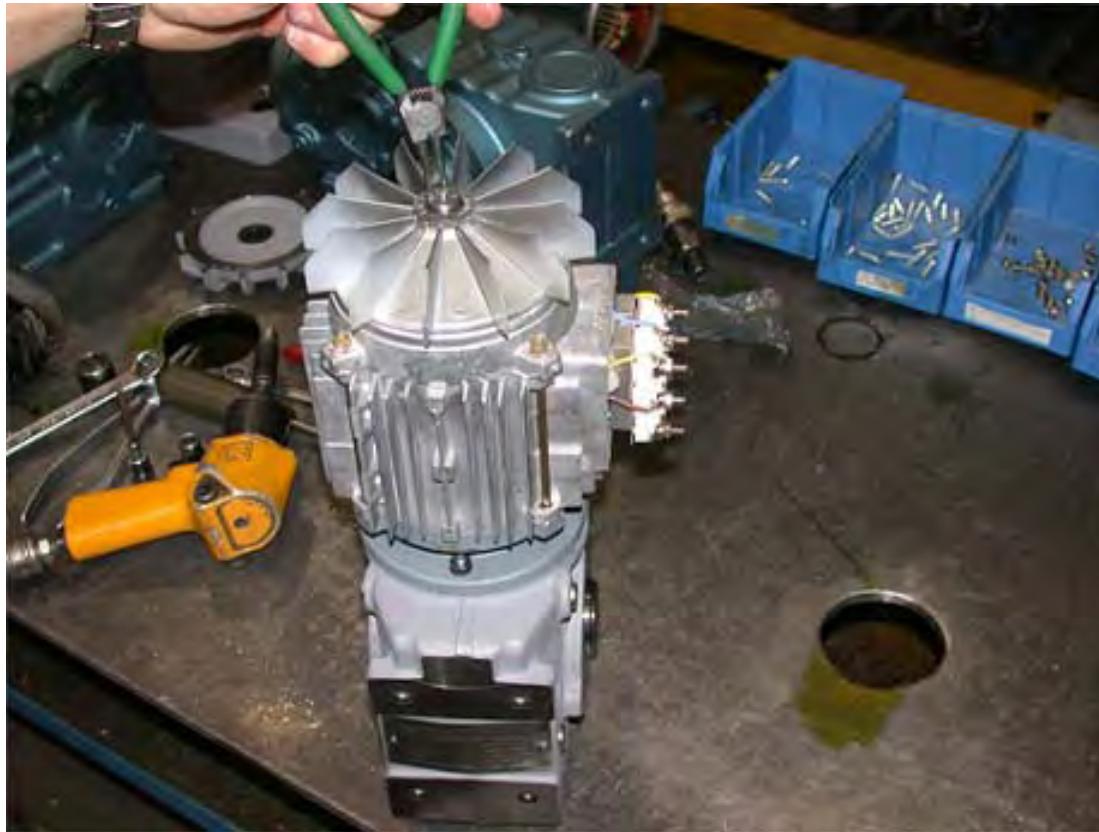
Step 8

- Remove the fan guard.



Step 9

- Using the external snapping pliers, remove the snapping that secures the fan.



Step 10

- With the medium-sized flat-tip screwdriver, gently pry the fan up and down to loosen and remove it. Use caution to avoid damaging the fan!



Step 11

- Using the cutting pliers, remove the A-key from the rotor shaft.



Step 12

- Remove the rubber v-ring from the rotor shaft.



Step 13

- Using the appropriate metric socket, remove the four (4) motor tension rods.



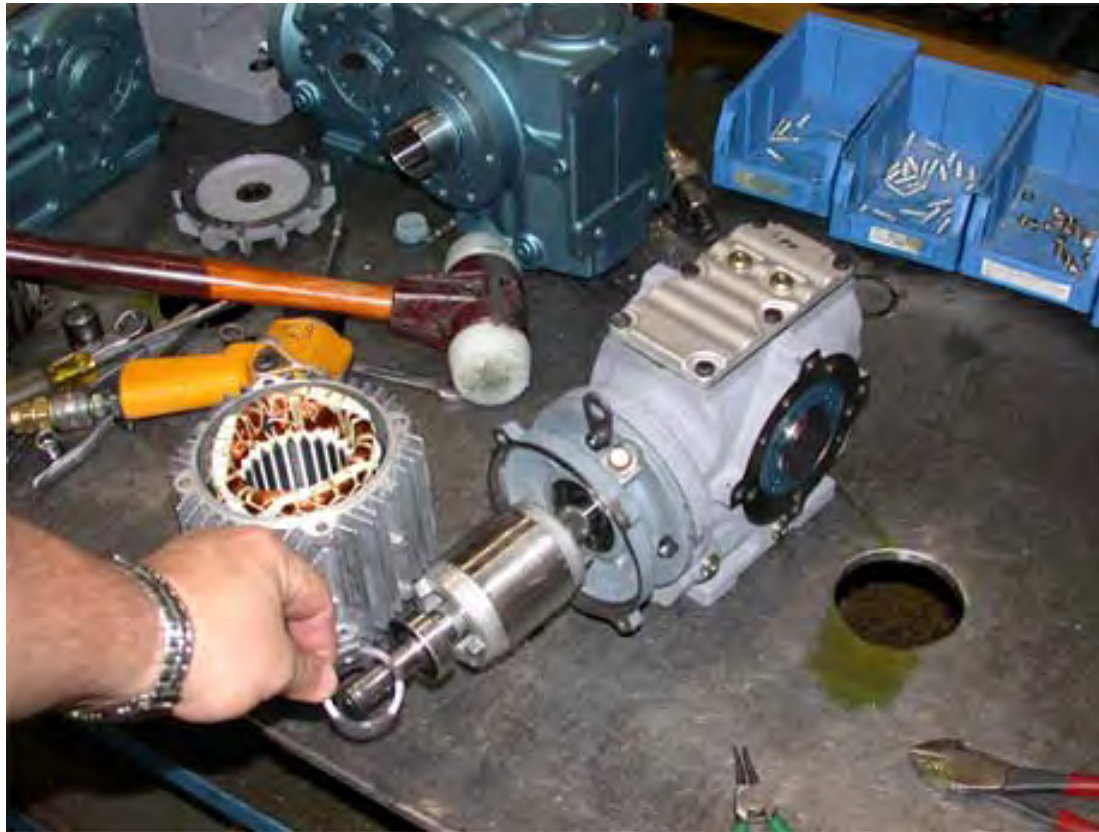
Step 14

- Place the medium-sized flat-tip screwdriver between the stator and the motor end bell. Gently pry the stator at several locations to loosen it. Use caution to avoid damaging the stator fins!



Step 15

- Remove the wavy washer from the rotor shaft.



Step 16

- Tap the inside of the motor end shield to gently remove it from the stator.



End shield

Step 17

- Clean any dust or contamination from the motor parts.





Installing Replacement Stator



Step 18

- Slide the replacement stator onto the rotor. Rotate the stator until the conduit box is located at the same position as the previous stator.



Step 19

- Line up the tension rod holes. Then, gently tap the stator onto the flange.



Step 20

- Slide the wavy washer onto the rotor end.



Step 21

- Place the motor end shield onto the rotor while keeping the wavy washer aligned. Rotate the end shield until the tension rod holes are aligned and tap the end shield into place.



Step 22

- Using the appropriate metric socket and driver, install the four (4) motor tension rods.



Step 23

- Lubricate the rubber v-ring with oil or grease. Slide it over the end of the rotor shaft until it seats firmly against the motor end shield.



Step 24

- Install the A-key using the dead blow hammer.



Step 25

- Install the fan using gentle taps with the dead blow hammer.



Step 26

- Install the snapping with the external snapping pliers.



Step 27

- Place the fan guard over the fan, lining up the fan guard holes with the holes in the end shield.



Step 28

- Using the appropriate metric socket and driver, install the four (4) fan screws.



Step 29

- Place the conduit box gasket onto the motor.



Step 30

- Using the four (4) Torx screws and Torx driver, install the conduit box into its previous location to ensure that any drain holes remain in their proper position.



Step 31

- Reconnect all of the wires according to the appropriate wiring diagram.



Step 32

- Install the conduit box lid using the appropriate metric socket and driver.



Step 33

- Reconnect power and confirm the proper operation of the motor and attached equipment.

