

REMOVING THE STATOR (See Fig. 44B)

Normally it should not be necessary to replace the stator unless a complete motor failure occurs. If it becomes necessary to replace the stator, a new rotor must also be installed. (Always install stator before rotor). To replace the stator proceed as follows:



Be sure the compressor is supported and blocked adequately so that it does not tip or fall during the disassembly procedure.

1. It is advisable to remove the compressor from the unit before attempting to remove the stator.
2. Remove the motor cover and rotor, using procedures outlined previously.
3. The compressor may be placed in a vertical position, on the pump end. **DO NOT** rest the compressor on the oil pump.
4. Remove the 2 diagonally opposite cap screws and lock washers that hold the stator to the compressor housing. Insert guide pins (7/16 - 14 x 9") into the diagonally opposite holes. Remove remaining 2 cap screws and lock washers that hold the stator to the compressor housing. **(Largest stator weight approximately 300 lbs.)**
5. If removing in a vertical orientation, install the expanding mandrel (YORK Part No. 029-13597) inside the stator and tighten the mandrel.
6. Using a hoist or crane attached to the mandrel or a sling around the stator OD, remove the stator from the housing being careful not to damage the windings. **DO NOT** rest the stator on the windings.
7. When installing a stator, the surfaces where the stator rests on the housing must be absolutely clean, free of varnish, dirt, etc. (See Fig. 44A & 44B).
8. Using the mandrel or sling and guide pins, move the stator into position, being careful not to damage the windings. Keep in mind that any contact with metal can damage the stator. Be sure the stator is properly positioned on the compressor housing with respect to motor leads and terminal block location.
9. Insert 2 cap screws and lock washers and tighten them to the proper torque. Remove the hoist, mandrel (if used) and guide pins. Insert the remaining 2 cap screws and lock washers and tighten them to the proper torque.
10. Reassemble the compressor using procedures previously described in the respective sections of this manual. Also see Fig. 45 before connecting power wiring.

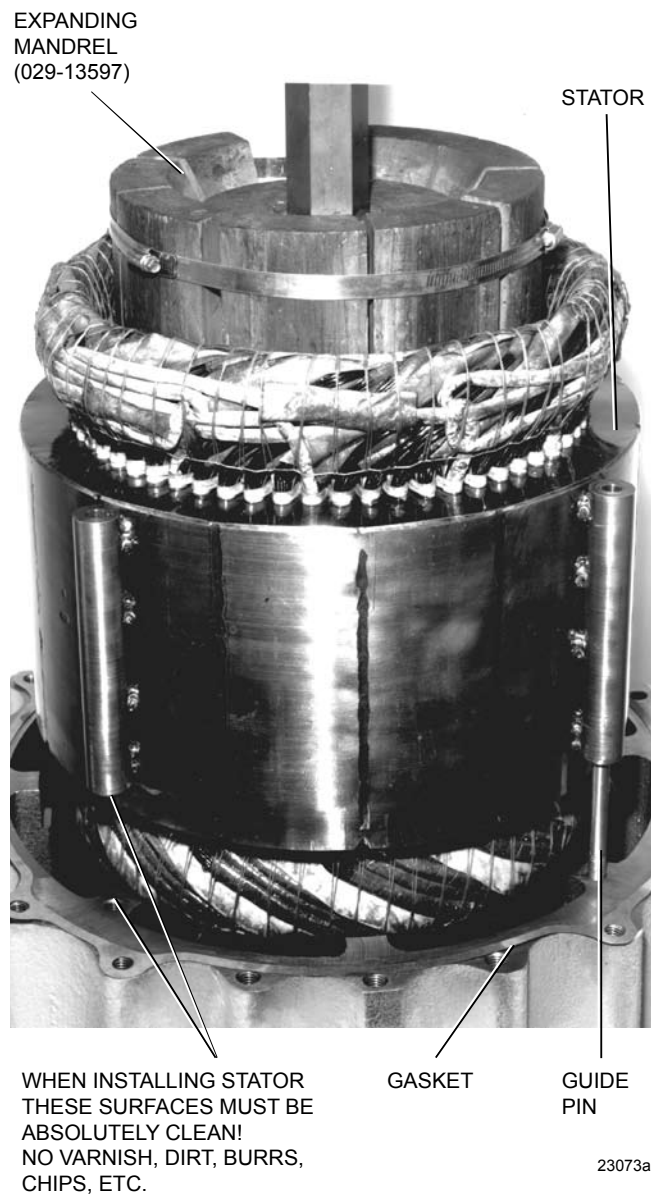


FIG. 44A – REMOVING THE STATOR (Vertically)



FIG. 44B – REMOVING THE STATOR (Horizontally)