EXHAUSTO

Replacement of RSV/GSV 400-450 Motor

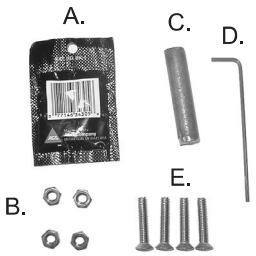
All work should be done by a qualified Mechanical Contractor.

This repair requires working knowledge of electricity, electrical wiring, motors and hand tools. If you are unsure about your ability to perform this repair, contact a Mechanical Contractor.

The Fan Motor and Impeller are heavy, assistance may be required in carrying and installing them.

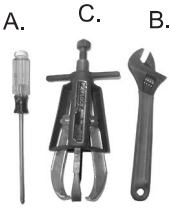
EXHAUSTO Motor Replacement Kit

A. High Temperature Grease
B. (4) 6 mm — 1.0P Hex Nuts
C. 1/2" x 2 1/4" Steel Dowel
D. 3 mm Allen Wrench
E. (4) 6 mm X40 screws

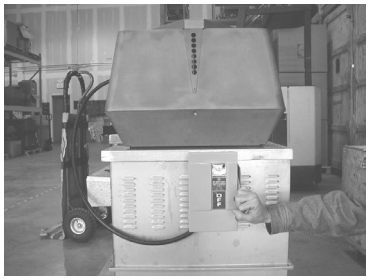


Tools Required

A. #3 Phillips Head Screwdriver
B. Wrench for Gear Puller
C. Gear Puller



1.) Switch off and tag out the power supply to the fan. Note their location and disconnect the fan motor wires at the disconnect switch.

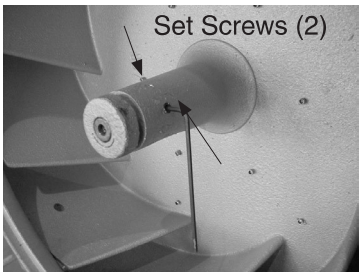


2.) Loosen the screws that hold the fan closed.

3.) Remove the screws from the motor cover and remove the motor cover from the fan.

4.) Open the fan and place the motor cover inside to cover the stack opening. This will prevent any parts from falling down into the stack.

5.) Note the location of the Impeller on the motor shaft. Using a 3 mm Allen Wrench, loosen the (2) impeller set screws.

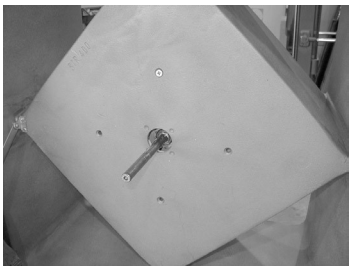


6.) Mount puller on impeller hub.

7.) This picture shows using the 1/2” dowel to aid in removal of the impeller

8.) Support the Impeller while removing it from the motor shaft.

9.) Using a #3 Phillips Head Screwdriver, remove all but the top bolt.



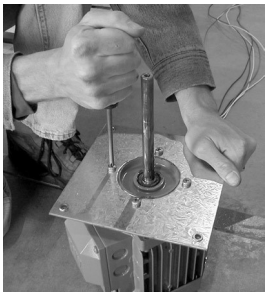
10.) Support the motor with one hand while removing the top bolt.

11.) Lay the motor inside of the top section. Being careful not to lose the motor spacers. Close the lid.

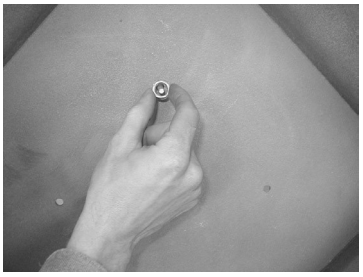
12.) If replacing the motor wiring, remove it from the electrical conduit. Otherwise, note their locations and disconnect motor wiring.

NOTE: Before beginning the installation of the new motor. Check to see that the motor is set for the proper voltage. Some of our motors are capable of operating on 2 or more voltages. Please refer to the Motor Nameplate Data for more information.

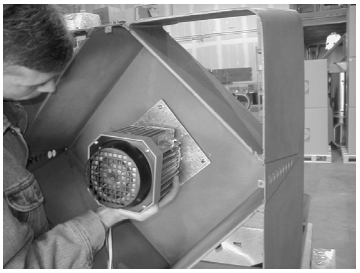
13.) Remove the motor mounting plate and transfer it to the new motor.



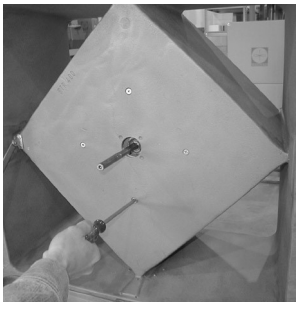
14.) Open the fan. Place one of the new motor mounting bolts through the top bolt hole and place one motor spacer onto the bolt.



15.) While holding the bolt in place with one hand, position the motor with the motor wires hanging downward. Start the bolt into the plate.

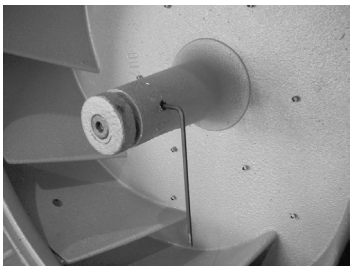


16.) Install the remaining bolts and spacers. Tighten the bolts equally in a cross pattern beginning with the bottom bolt. Repeat tightening sequence at least twice



17.) Place one 6 mm Hex Nut onto the motor mounting bolt. Tighten the nut carefully! Over-tightening will loosen the bolts.

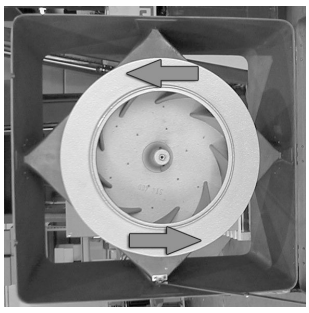
18.) Test fit the Impeller onto the new motor. It should slide on without much resistance. Filing or sanding of the inside of the impeller hub or motor shaft may be needed.



19.) Remove the Impeller and coat the motor shaft with high temperature grease.

20.) Place the impeller back onto the motor shaft. Be sure to position the Impeller so that it does not contact the top section of the fan or the impeller inlet. Tighten the set screws.

21.) Reconnect all electrical wiring. Power-up the fan and check rotation. If rotation is incorrect, reverse the phasing.



Notes

Notes

For Technical Assistance, please call:

(800) 255-2923

EXHAUSTO

1200 Northmeadow Pkwy, STE 180 • Roswell, GA 30076
(770) 587-3238 (800) 255-2923 Fax (770) 587-4731
info@exhausto.com us.exhausto.com