



REPLACEMENT INSTRUCTIONS FOR MOTOR KITS 3108706.924 & 3310522.002

1. Turn all AC and DC Power off to the air conditioner at circuit breakers or fuse box
2. Remove Outer Shroud – 4 pcs Phillips head screws
3. Remove Return Air Cover
 - a. 9 pcs of 5/16" hex head screws
4. Loosen the Evaporator Blower Wheel
 - a. Go through top of evaporator housing with:
 - Allen wrench (size) (Steel Wheel Models)
 - Straight Slot Screwdriver (Plastic Wheel)
5. Loosen the condenser housing by removing the following:
 - a. 3 pcs of 5/16" hex head screws from the condenser side end plate
 - b. 3 pcs of 5/16" hex head screws from end plate near compressor
 - c. 1 pc of 5/16" hex head screw at rear back corner that secures housing to base pan
 - d. 1 pc of 5/16" hex head screw at rear side at bottom that secures housing to base pan
6. Remove 4 pcs of 5/16" hex head screws that secure the motor mounting brackets to the base pan
7. Remove wires from Electric Box:
 - a. Remove the 1 pcs of 5/16" hex head screw that secure electric box cover to electric box
 - b. Remove the White and Brown Lead Wires from the motor from unit run capacitor
 - c. **Units with Electronic Boards:**
 - Carefully remove the Red, Yellow and Black Lead Wires from motor from the electronic board
 - d. Units without Electronic Boards
 - Cut the Red, Yellow and Black Lead Wires from the motor 1" from where they enter the back of the Electric Box through the black strain relief
 - e. Remove the strain relief from back of Electric Box and remove the motor lead wires
8. Carefully lift the motor and condenser housing upward as you work the motor shaft from the evaporator blower wheel.
 - a. Lift the condenser housing and motor from the unit
9. Loosen the Condenser Blower Wheel
 - a. Allen wrench (size) (Steel Wheel Models)
 - b. Straight Slot Screwdriver (Plastic Wheel)
10. Carefully pull motor shaft from the condenser blower wheel
11. Remove the motor mounting brackets from the motor
 - a. And related parts from the motor
 - 4 pcs of 8-32 hex nuts, (requires 11/32" size wrench),
 - 4 pcs of 3/4" diameter washers
 - 4 pcs of 1/4" spacers
 - b. Place all parts on new motor
12. Place Condenser Wheel and Housing Assembly back onto the new motor
 - a. Do not tighten down the blower wheel at this time
13. Replace the Condenser Housing and Motor assembly back into the unit.
 - a. Slide motor shaft through back of evaporator blower housing, and into the evaporator blower wheel
 - b. Work the motor shaft onto the blower wheel
 - c. Do not tighten the blower wheel at this time
14. Reattach the motor mounting brackets to the base pan.
15. Reattach the condenser housing to the unit by replacing all screws.

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16. Center the Evaporator and condenser Blower wheels in their respective housing and tighten set screws down onto the motor shafts to secure in place.
 - a. Spin blower wheels to insure they do not rub on the housing or related parts.
17. Feed the motor leads through the back of the Electric Box and reattach as follows:
 - a. Connect the white lead to the unit capacitor common
 - b. Connect the brown lead Fan terminal on the unit capacitor
 - c. Electronic Units
 - Connect the red, yellow and black wires to location where these leads were removed during the motor removal process (or see unit wire diagram located on the electric box cover for location)
 - d. Non-Electronic Units
 - Cut the $\frac{1}{4}$ " wire terminal from the red, yellow and black leads from the motor and strip insulation back $\frac{1}{2}$ "
 - Locate the red, yellow and black leads previously cut in the Electric box and strip insulation back $\frac{1}{2}$ ".
 - Join the red, yellow and black leads from the motor to the respective color leads in unit electric box with provided wire nuts.
 - e. Replace the black strain relief back around the wires and insert into back of unit electric box.
18. Replace unit return air cover and Unit Shroud.
19. Restore power to unit and test run Air conditioner on all three speeds to insure satisfactory operation.

