

Installation Instructions for SM670 Series Utility Motors

Read before beginning installation.

Important: Disconnect electrical supply source to prevent electrical shock.

670 Utility motors have 3/16" diameter shafts and are single speed 120V, 60 Hz.

672 Utility motors have 3/16" diameter shafts and are single speed 240V, 50/60 Hz.

673 Utility motors have 3/16" diameter shafts and are two speed 120V, 60 Hz.

675 Utility motors have 3/16" diameter shafts and are dual voltage 120/240V 60Hz.

The SM670, SM672 & SM673 motor kits contain the following components:

(All other kits contain miscellaneous hardware or include the motor only)

- | | |
|------------------------------------|-----------------------------|
| 1 - Utility motor | 1 - instruction sheet |
| 1 - 5.5 counterclockwise fan blade | 1 - 4" clockwise fan blade |
| 3 - wire nuts | 6 - 8-32 hex nuts |
| 6 - 6-32 small pattern hex nuts | 2 - 6-32 x 7/8" R.H. screws |
| 2 - 6-32 x 2 1/2" R.H. screws | 2 - 8-32 x 1 1/4" screws |
| 1 - 1/4" shaft bushing | 1 - 5/16" shaft bushing |
| 1 - fan adapter | 1 - motor mounting bracket |

Dual Voltage Wiring:

Black + White = 120V Black + Red = 240V

REMOVAL:

Standard skeleton frame motors and round motors.

1. Remove grill or guard to expose inoperative motor.
2. Disconnect motor lead wires. Cut wires if wired direct. Unplug if motor has a connector or plug.
3. Remove defective motor from mounting. NOTE... On many exhaust hoods the motor bracket is mounted with two (2) screws which only need be loosened and motor and bracket can be turned a few degrees and lifted off mounting.
4. Remove old bracket and save to install on new motor.
5. Carefully remove fan blade from defective motor. CAUTION: Do not bend or break original blade if it is to be reused.

INSTALLATION:

SKELETON FRAME MOTORS.

1. Determine the rotation of the defective motor (Fig. B).
2. The new utility motor is furnished with clockwise rotation facing shaft.
3. To reverse the rotation remove the bolts holding the front and rear bearing brackets. Remove the front bearing bracket, lift shaft and rotor out and reverse. (Make sure front and rear thrust washers remain on the shaft as originally supplied.) Place bracket with mounting bosses and screw extension on the side required. Insert front of shaft and rotor through original rear bearing bracket and over rear of shaft. Reassemble bolts through bearing brackets and stator.
4. Install utility motor to original bracket.
5. If applicable, install the original fan blade. If necessary, use the 1/4" or 5/16" shaft adapters furnished in the package, or select the clockwise or counter clockwise fan blades provided in the kit. If shaft adapters are used, insert into the fan blade bore first, then install this assembly onto the motor shaft.



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6. Install the utility motor with the original bracket back onto mountings and secure.
7. Properly route motor lead wires to clear blade and shaft and plug into power outlet or splice wires using wire nuts furnished in kit.

INSTALLATION:

ROUND STYLE MOTOR - 2 7/8" MOUNT

1. Use motor mounting bracket furnished in kit to extend replacement motor mounting from 1 7/8" to 2 7/8". Secure bracket to SM670 utility motor (either front or rear of motor as required - Fig. A), and reinstall to original mounting bracket. NOTE: The motor mounting bracket must be installed using the bearing bracket with out mounting bosses. If necessary this bracket may be moved from the rear to the front of the motor by removing the (2) bolts that hold together the bearing bracket.
2. Properly route lead wires to clear blade and shaft and plug into power outlet or splice wires using wire nuts furnished in kit.

Wiring: Two speed SM670 Series Motors

1. White lead - motor common
Red lead - motor low speed
Black lead - motor high speed
2. The two speed motor can be used as a single speed using common (white) and either red or black lead for desired speed. NOTE: Tape unused lead for electrical safety.

FIG. A

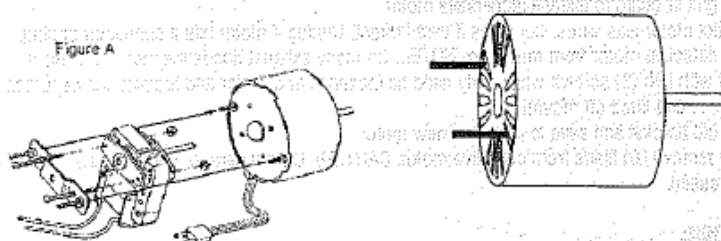


FIG. B

