

The Robertshaw® Utility Motors may be used to replace both skeleton (C frame) motors and 2-7/8" mount round motors. Be sure you have purchased the motor with the proper hardware or fan blades for your intended installation.

**NOTE:** Disconnect electrical power before servicing any equipment.

### SINGLE SPEED MOTOR INSTRUCTIONS

#### Disassembly-Defective Motor

1. Determine rotation direction of defective motor. On skeleton frame motor rotation can be determined without running by location of the buss bars. See Figure 1.
2. Note position of motor and mounting brackets before disassembly.
3. Remove original brackets and mounting hardware and save for installation of new motor.
4. Remove original fan blade or other hardware from shaft with care to avoid damage.

#### Replacement of Skeleton Frame Motor

1. Robertshaw utility motors are furnished with clockwise rotation - viewed facing shaft. To reverse the rotation, remove the (2) bolts holding the front and rear brackets in place. Remove both bearing brackets and the shaft and rotor assembly. Insert shaft and rotor assembly through motor frame in the opposite direction. Replace bearing brackets with threaded bracket on proper side of motor frame for desired mounting. Check motor for free rotation.
2. Install original brackets on new motor.
3. Install original fan blade or other hardware. If original motor had a 1/4 or 5/16 diameter shaft, use the proper size adaptor or one of the fan blades furnished with motor.
4. Remount motor in appliance and secure.
5. Plug new motor into electrical outlet or splice leads with wire nuts supplied. Make sure wires are clear of any moving parts.
6. Reconnect electrical power and check for proper operation.

#### Replacement of 2-7/8" Mount Round Motors

1. Install the (2) extension adaptors furnished to provide 2-7/8" mounting bolt spacing. See Figure 2. **NOTE:** Adaptors can be installed on either front or rear of motor as required. Motor rotation can also be reversed if required. See Step 1 Skeleton Motor Replacement.
2. Follow Steps 2-6 Skeleton Motor Replacement.

#### Replacement of 2 Speed Motors

1. Follow instructions for appropriate style of motor from single speed motor instructions except for wiring instructions.
2. Wiring instructions  
Motor leads are color coded as follows:  
White Lead - Common  
Red Lead - Low Speed  
Black Lead - High Speed  
Connect leads to proper switch lead with wire nuts supplied.

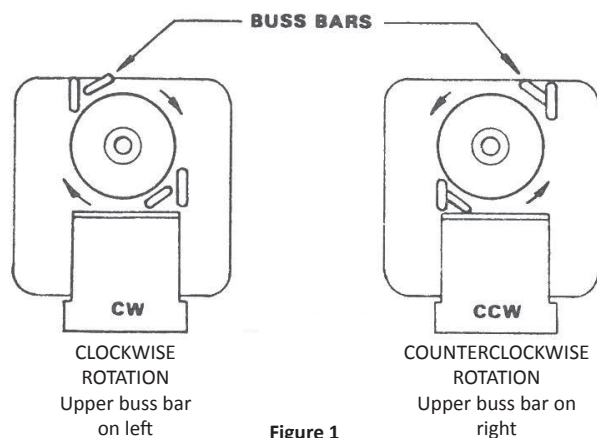


Figure 1

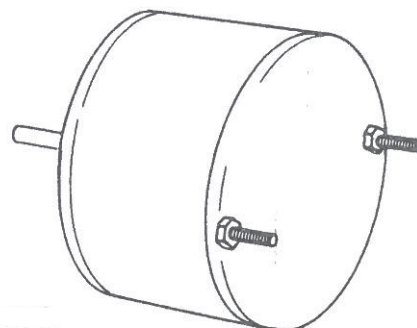
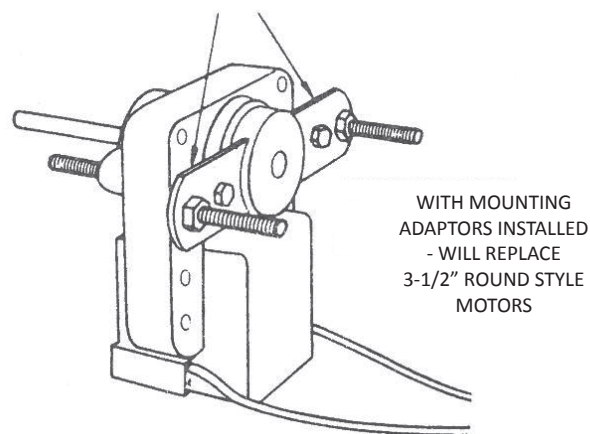


Figure 2



3. Motor can be connected for either high speed only or low speed only by connecting the common (white) lead and either the high speed or low speed lead only. Tape the end of the unused lead to avoid electrical hazard.