

MOUNTING MOTORS

FACT If the motor to be replaced is mounted in a resilient base, the distance between the mounting rings must match within 1/4". Rubber mounting rings are 2-1/4" or 2-1/2" in diameter. Turning the rings around on the motor hubs will change the distance between the mounting points on the rings by 1/4".

FACT Fasco double shaft room air conditioning replacement motors can be used with a ring mounting adapter kit which consists of 2-1/4" diameter rubber mounting rings and steel ring enlargers for changing the ring diameter to 2-1/2". The brackets can be mounted on the motor thru-bolts. These brackets can be positioned along the extended thru-bolts to provide a wide variety of distances between mounting rings.

FACT When using Henrite 2-1/4" ring with the double metal rings that expand the diameter to 2-1/2", high horsepower motors may twist in the cradle base. Either use the 2-1/2" diameter Henrite rings or mount the motor so that the extended tie rod is butted up against the edge of the base to prevent twisting.



FACT The distance from the bottom of the base to the centerline of the shaft must be matched. This dimension is usually 3" or 3-1/2". Fasco offers different sizes of cradle bases to fit most of the cradle mounted models.



FACT The motor is mounted partially within the blower housing with a three point lug mount in many direct drive blower applications. Direct OEM replacement motors would come with lugs already welded on the motor for direct interchangeability. For general replacement, Fasco lug kits are available with a variety of mounting hole bolt circle diameters. Use of these kits provide what is commonly called a "belly band" mounting.

FACT A mounting method which has become very popular in recent years is the flexible mounting brackets which Fasco calls the "Fas Mount". Three specially designed steel mounting arms are welded to a sturdy belly band. The shape of the arms provide superior vibration and noise isolation.





FACT There are two common types of resilient rubber rings. Rings with a steel band are called Henrite type and are used with cradle bases and knife edge supports. The other is all rubber rings which are used with direct drive blower motors and clamp type supports.

FACT The replacement motor must have a base mount which matches the shaft height when the replaced motor has a solid base affixed to the frame. This height is measured from the centerline of the shaft to the bottom of the base. The mounting hole spacing in the base must also match.

FACT Motors are sometimes mounted on bulkheads using extended motor thru-bolts. There are many different ways motors are mounted, and Fasco offers many accessories to help meet these mounting needs. It is best to have the motor to be replaced with you when selecting a replacement motor. The key dimensions which should agree between the old and the new motors are:

1. Motor diameter.
2. Shaft length and diameter.
3. Distance between two rings if mounted on a resilient base.
4. Bolt circle diameter if lug mounted.
5. Shaft height and base hole locations.

FACT It is often possible to use larger or smaller diameter motors with the help of various available mounting accessories, particularly on lug mounted or base mounted motors.

FACT When replacing motors in bathroom ventilators, kitchen ventilators, and range hoods, it is common for these motors to use a resilient six-sided hex bearing hub. Fasco offers a kit that consists of two metal brackets and four nuts which will provide the 1-1/8" OD hex hub on 3-1/3" diameter motors.



FACT When replacing condenser fan motors you will see some motors mounted off cables, shaft down, suspended from the center of the top of the grill. Fasco offers these cables as an accessory.



FACT All Fasco distributor motors are designed for all angle operation.

FACT Motors installed horizontally should be rotated so that leads are in the 6 o'clock position or looped so water cannot enter the motor.