

# Installation Instructions for SQBA - SQDA Accessories

## VIBRATION ISOLATORS

The vibration isolator kit for type SQ in-line fans consists of four isolators, eight identical brackets and the hardware needed to assemble the brackets and mount them to the fan. The installer must supply the hanging rods.

**Installation.** The brackets can be assembled in two different configurations, depending upon airflow direction and motor location desired. See Figures 1 and 2. Determine which arrangement is desired and assemble the brackets as shown in Figure 1, using the 3/8" hardware supplied. The brackets

are to be mounted using the pre-punched holes at each end of either the top or bottom of the fan, allowing removal of the housing side sheets for access to the interior of the fan. Bolt the assembled brackets to the fan using the 3/8" hardware supplied. See Figure 2. Tighten all hardware securely. The fan can now be hung from the isolators.

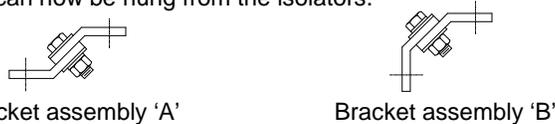


Figure 1. Bracket assemblies

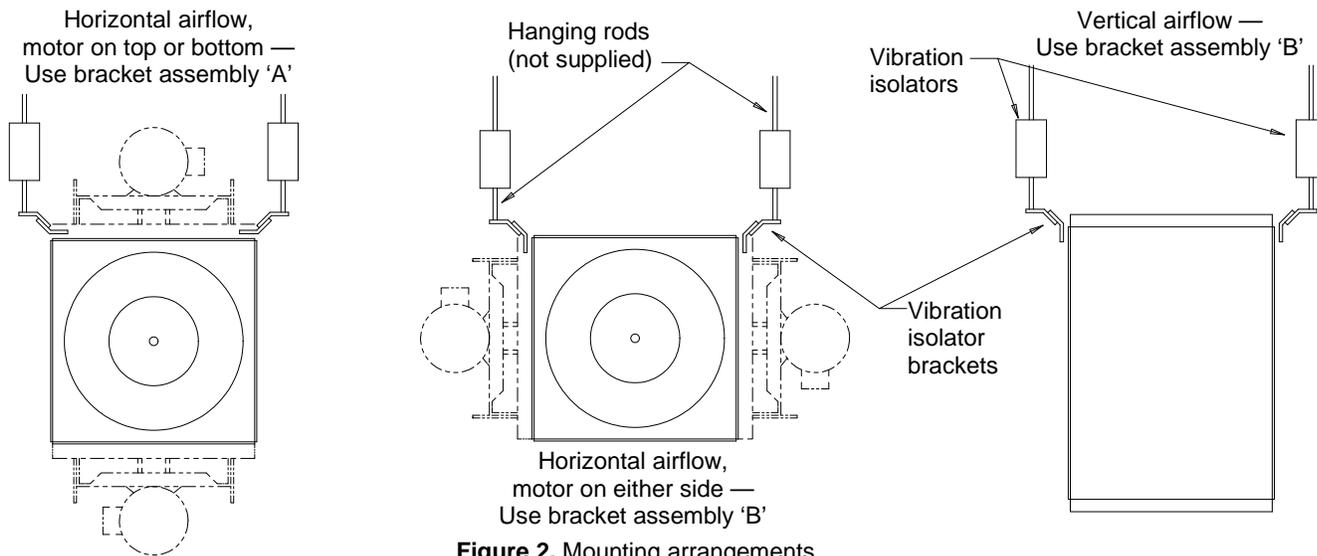


Figure 2. Mounting arrangements.

## INLET/OUTLET FLANGES

### INLET FLANGES SIZES 06-12, 15-16, 20-44 AND ALL OUTLET FLANGES

The inlet or outlet flanges for type SQ in-line fans consist of four identical flanges and hardware to attach them to the fan. Whether being used as inlet flanges or outlet flanges, they mount to the fan with the leg with the holes in it against the fan and the other leg flush with the end of the fan.

**Inlet flange installation.** Place one of the flanges on the edge of the inlet panel. Position it so that the end with the slot closest to it is flush with the side of the inlet panel. See Figure 3. Using the self-drilling screws provided, fasten the flange to the inlet panel. Stagger the other three flanges around the fan as shown. Fasten securely to the fan.

**Outlet flange installation.** Place one of the flanges on the outlet end of the fan. Position it so that one end of the flange is flush with the side of the fan. Note that the slots in the flange sit over the rivets at the corners, allowing the flange to mount flush on the fan. Using the self-drilling screws provided, fasten the flange to the fan. Stagger the other three flanges around the fan as shown. Fasten securely to the fan.

### INLET FLANGES SIZES 13, 18

The inlet flange kits for type SQ in-line fans, sizes 13 and 18, have, in addition to flanges and hardware, four identical mounting angles. The mounting angles have mitered corners and mount with the leg with 3 or 4 holes in it against the front of the inlet panel. The inlet flanges mount to the angles with the leg with the holes and slots in it against the mounting angle and the other leg flush with the front edge of the mounting angle.

**Mounting angle installation.** Place one of the mounting angles on the front of the inlet panel. Position it so that the leg without holes is flush with the side of the inlet panel. The ends of the mounting angle should line up with the corners of the inlet panel. See Figure 4. Using the self-drilling screws provided, fasten the mounting angle securely to the inlet panel. Repeat this procedure for the remaining angles.

**Inlet flange installation.** Place one of the inlet flanges on the exposed leg of the mounting angle. Position it so that the end with the slot closest to it is flush with the end of the mounting angle. See Figure 4. Using the self-drilling screws provided, fasten the inlet flange to the mounting angle. Stagger the other three inlet flanges around the fan as shown. Fasten securely to the mounting angles.

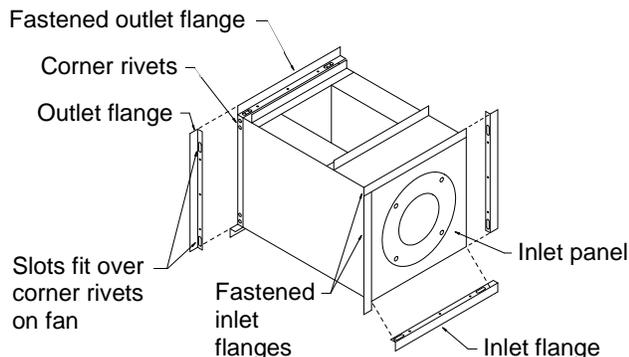


Figure 3.

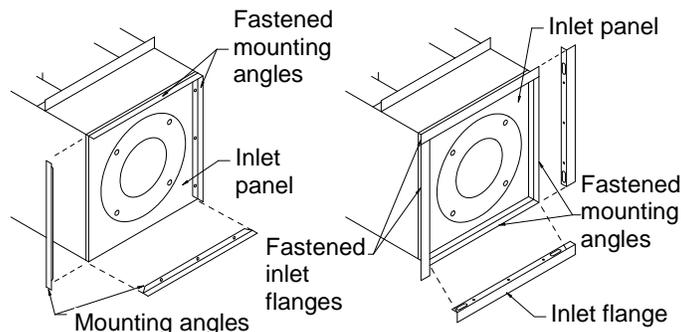


Figure 4. Mounting inlet flanges for sizes 13 and 18 only.

# Installation Instructions for SQBA - SQDA Accessories

## INLET/OUTLET GUARDS

Both the inlet and outlet guards for type SQ in-line fans consist of flat PVC coated wire guards and the necessary hardware to attach them to the fan. When used as an outlet guard, the guard clips have to be mounted to the fan first. When used as an inlet guard, it mounts directly to the inlet end of the fan and the guard clips supplied are not used.

**Inlet guard installation.** Place the flat guard on the face of the inlet panel. Near each of the four corners of the guard, drill a 13/64" dia. hole in the inlet panel. Using a 1/4" self-tapping screw and a large 1/4" flat washer at each location, fasten the guard to the inlet panel. See Figure 5. On fan sizes 15 and larger, evenly space an additional 1 or 2 screws along each side.

**Outlet guard installation.** The clips mount with the leg with 3 holes in it against the fan and the other leg of the clip flush with the outlet end of the fan. Position the clips as shown in Figure 7 (depending upon fan size). Using the clip as a template, mark and drill a 9/32" dia. hole at each clip as shown in Figure 6. Bolt the clips to the fan using a 1/4" bolt, lock washer and hex nut at each location. Tighten the hardware securely. Using a 1/4" self-tapping screw and a large 1/4" flat washer at each location, fasten the guard to the guard clips.

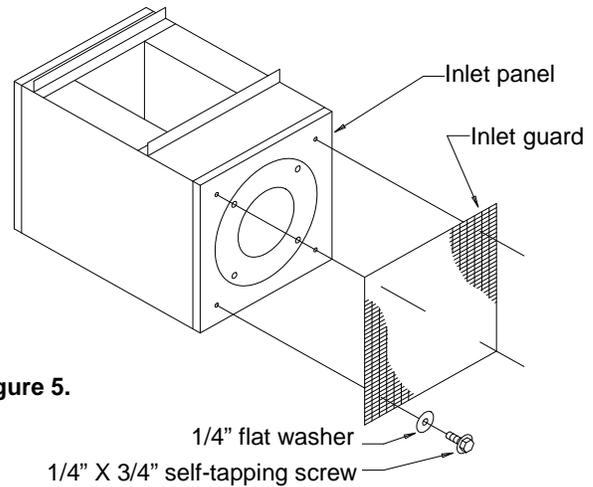


Figure 5.

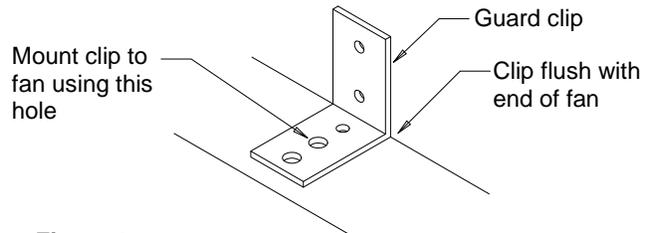


Figure 6.

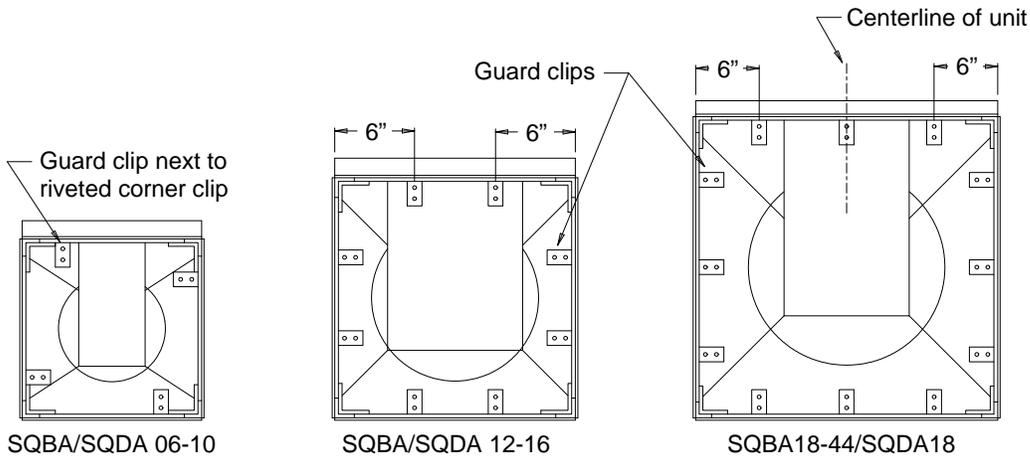


Figure 7.

NOTE: Guard clip locations are typical for all four sides.

## ROUND DUCT CONNECTOR

The round duct connector is designed to be used on the inlet end of the fan. Center the duct connector over the spun inlet

bell and fasten it directly to the inlet panel. See Figure 8. Pilot holes are provided in the duct connector. Fasteners are not supplied.

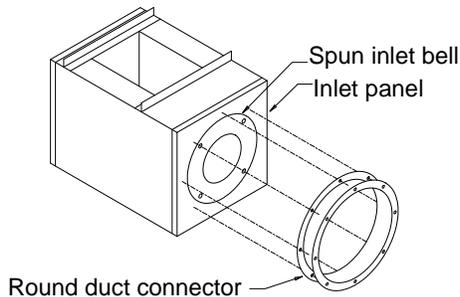


Figure 8.



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