

# MIXING BOX

## INSTALLATION INSTRUCTIONS FOR USE WITH CHW / CHX BLOWER COIL UNITS

### GENERAL

The manufacturer assumes no responsibility for equipment installed in violation of any code requirement.

These instructions give information relative to the installation of these fan coil units only. For other related equipment refer to the proper instructions.

Material in this shipment has been inspected at the factory and released to the transportation agency in good condition. When received, a visual inspection of all cartons should be made immediately. Any evidence of rough handling or apparent damage should be noted on the delivery receipt and the material inspected in the presence of the carrier's representative. If damage is found, a claim should be filed against the carrier immediately.

### MIXING BOX

The installer must adhere strictly to all local and national code requirements pertaining to the installation of this equipment.

These mixing boxes are designed with low leakage dampers that are constructed of galvanized steel and feature spring steel side seals and

inflatable air seals on the damper's edge for minimum air leakage. They may be positioned for either rear / top or rear / bottom mounting.

All boxes have provisions for external linkage connections to be made on either side. Sufficient clearance must be provided on the side of the mixing box to allow mounting of the crank arms, push rod, and field supplied drive operator.

### AIR DISTRIBUTION DUCTS

All duct work must be installed in accordance with National Fire Protection Association Codes 90A and 90B. The return air duct must have the same free area as the opening provided on the mixing box.

### LINKAGE HARDWARE

The following items are packaged with the mixing box:

- 2 - Grommets
- 2 - Ball Joint Assemblies
- 2 - Crank Arms
- 1 - Push Rod

### NOTICE

Drive operators and controls are field supplied.

### INSTALLATION

#### CAUTION

Check dampers to ensure that blades move freely. **DO NOT** install if blades are damaged.

- 1) After mixing box mounting position has been decided, choose which side of the box that the linkage connections are to be made on.
- 2) Remove the two knockouts and install the rubber grommets in the holes.
- 3) Extend the drive axle on both dampers. Remove the hex head bolt which secures the axle to the blade. (Fig. 1) Slide the axle out until the second hole in the axle is aligned with the hole in the drive blade. (Fig. 2) Replace the hex head bolt and tighten with a wrench. This extends the axle far enough so it protrudes beyond the mixing box cabinet.
- 4) Install the ball joint assemblies on to the crank arms, then install the crank arms on to the drive axles. Next install the push rod within the two ball joint assemblies. Adjust the crank arms on the drive axles as required.
- 5) The mixing box is now ready to be secured to the blower coil return air flange.

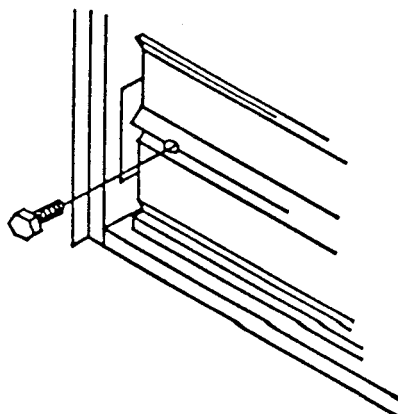


Figure 1

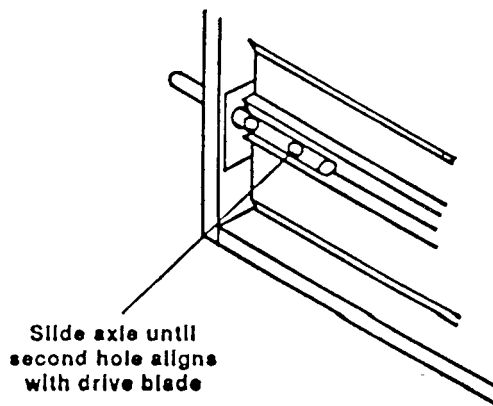


Figure 2