

## Indoor Fan Motor Wire Routing

### SAFETY CONSIDERATIONS

The 50BJ,BK Single-Package Cooling Units are designed to provide safe and reliable service when operated within design specifications. However, due to system pressures, electrical components and equipment location, some aspects of installation, start-up and servicing of this equipment can be hazardous.

Only trained, qualified installers and service mechanics should install, start up and service this equipment.

When working on the equipment, observe all precautions on tags or labels attached to the unit, safety notes in the literature and any other safety precautions that apply.

- Follow all safety codes.
- Wear safety glasses and work gloves.
- Use care in handling, rigging and placing bulky equipment.

### ⚠ WARNING

NEVER reach into unit while fan is running. Personal injury or death may occur. LOCK OPEN AND TAG fan motor power disconnect before working on a fan. Remove the fuses and take them with you after noting this on tag.

### INSTALLATION

→ **General** — Base section, fan section, fan motor and fan drive are shipped separate on 50BJ,BK028 and 034 units. The fan section can be positioned for horizontal or vertical discharge as shown in Fig. 1. (Refer to base unit installation instructions for details.) The fan motor is field installed to the fan section motor mounting bracket and plate and must be field wired.

These instructions apply to the wiring of the fan motor for 50-Hz and 60-Hz units. NOTE: *Proper wire routing is essential for the safe operation of these units. Follow wire routing instructions carefully.*

**CAUTION:** Turn off electrical power to base unit before routing wiring to fan motor.

**Step 1 — Check Equipment** — Refer to Fig. 2 and 3 for location of base unit components. Fan motor wiring is shipped coiled on top of evaporator coil. Wire tie locations are shown in Fig. 2, 3 and 4.

### Step 2 — Route Motor Wiring

**CAUTION:** Route wiring with sufficient slack to permit motor adjustment. Wiring should not be pinched, touch any moving parts or sharp edges.

**VERTICAL DISCHARGE** (Fig. 1, Position #1) — Run wiring thru wire tie #1 (Fig. 4) on motor mounting bracket to the fan motor and secure. Route wiring from wire tie around motor side of mounting bracket to fan motor connection box on top of motor (Fig. 5). Cut off and discard excess wire. Refer to base unit label diagram for wiring connection details.

**HORIZONTAL DISCHARGE** (Fig. 1, Position #2) — Run wiring thru wire ties #2 and 3 (Fig. 4) to the fan motor and secure. Run wiring to connection box at back of motor (Fig. 5). Cut off and discard excess wire. Refer to unit label diagram for wiring connection details.

**Step 3 — Start Up Unit** — Refer to base unit installation instructions for proper start-up procedure. Start up unit and check for proper fan rotation.

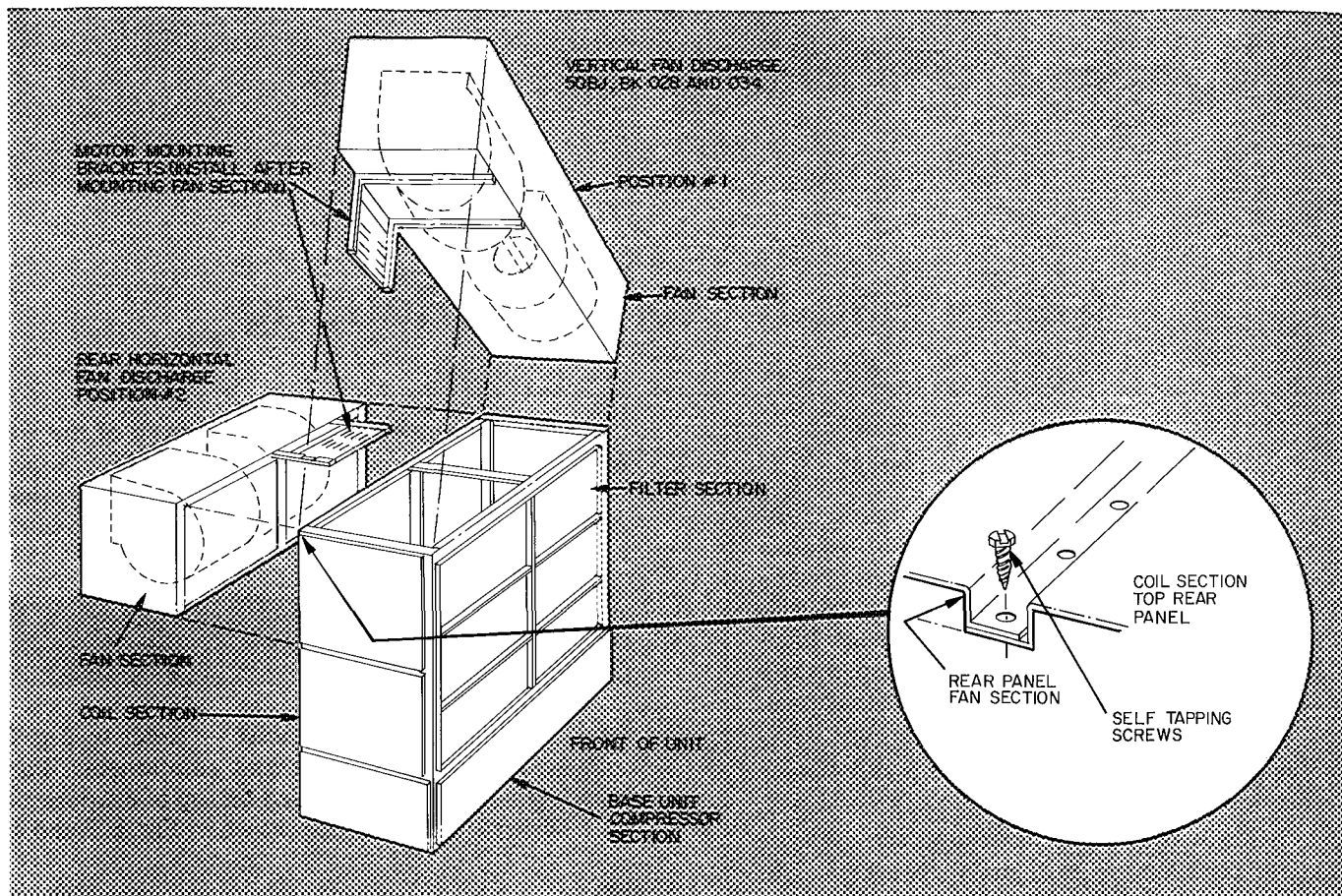


Fig. 1 — Fan Mounting (028,034 Units)

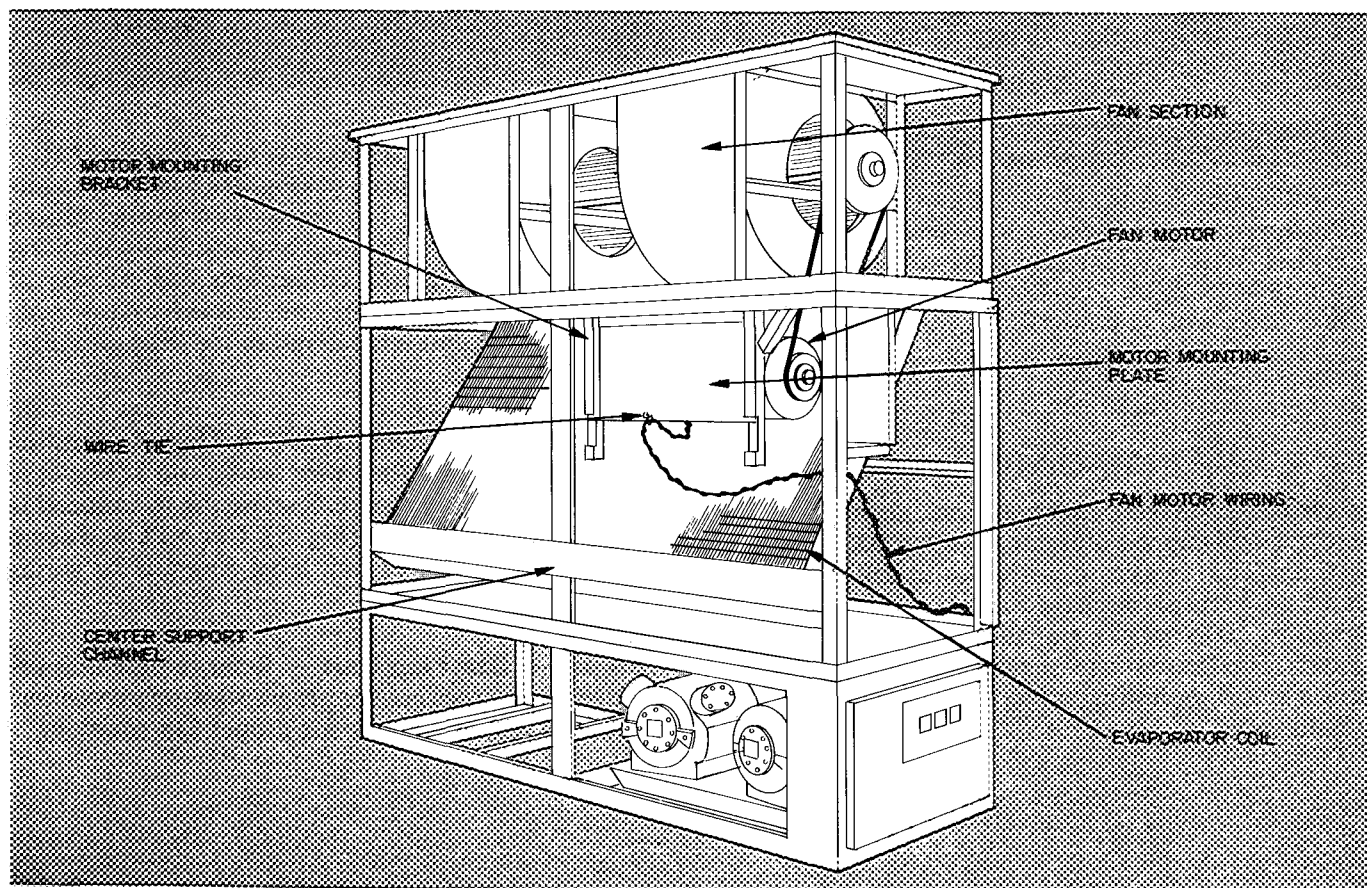


Fig. 2 — Typical 50BJ/BK028,034 Unit — Vertical Discharge

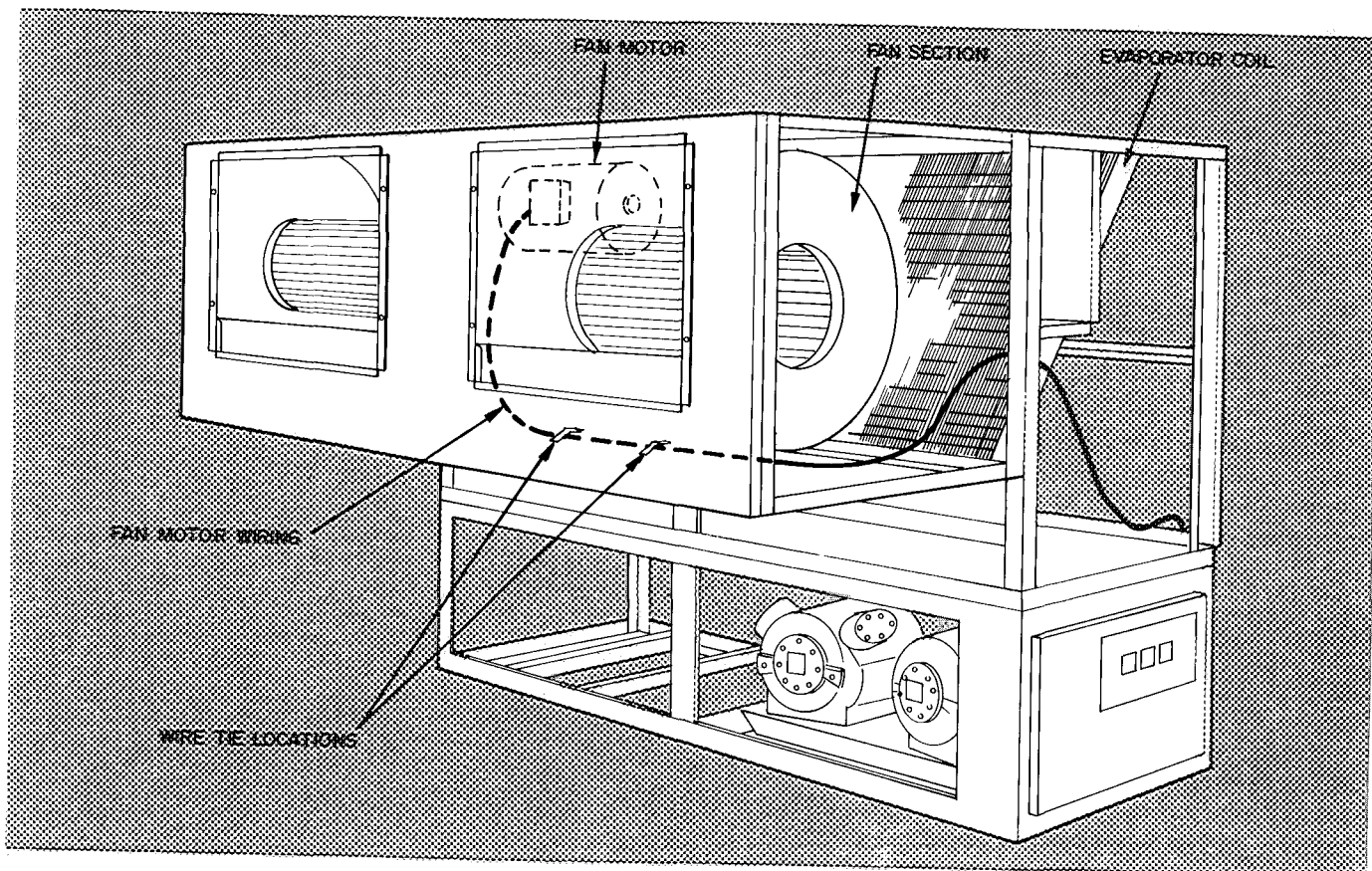


Fig. 3 — Typical 50BJ/BK028,034 Unit — Horizontal Discharge

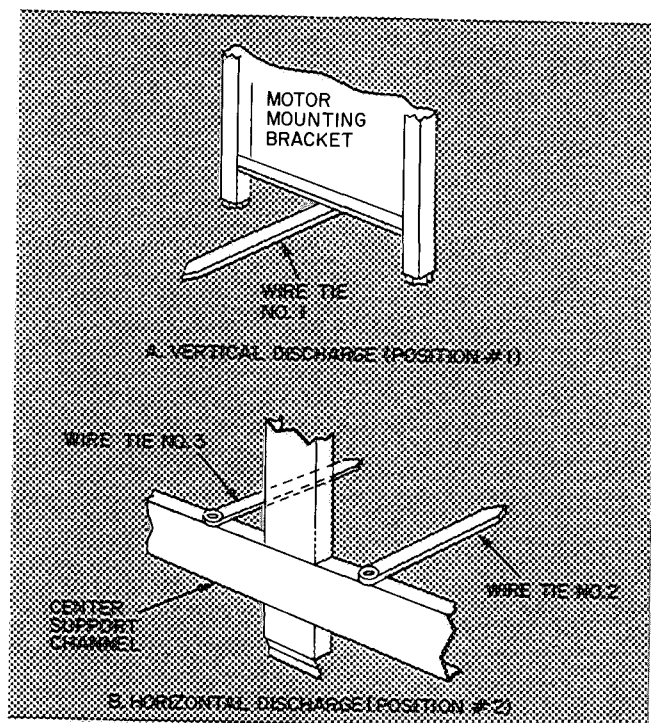


Fig. 4 — Wire Tie Locations

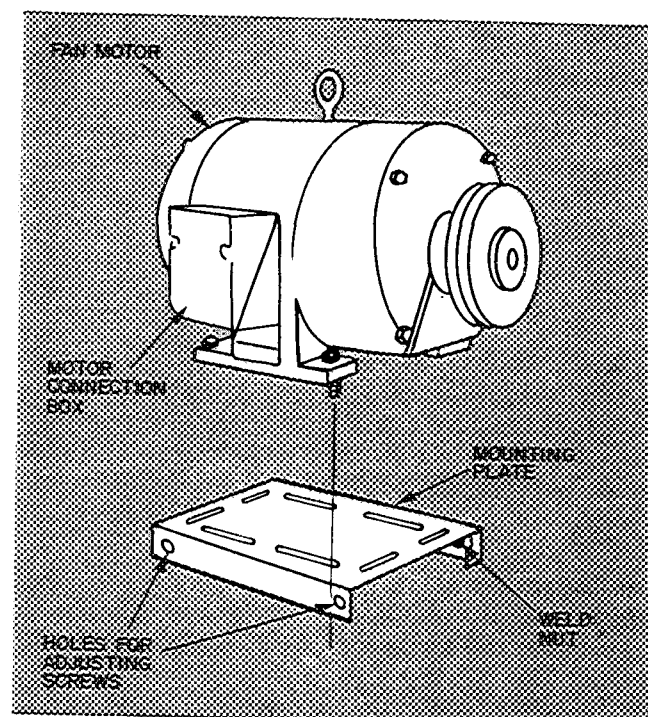


Fig. 5 — Motor Mounting Details

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations

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Form 50BJ,BK-3SI New

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