

Accessory Winter Start-Up Package

50BJ900041

INTRODUCTION

During extremely low ambient air conditions, the low-pressure switch on 50BK, BU044-064 units may cause unit compressor to fail to start. Under these conditions, a winter start control package is recommended. The winter start control provides a 3-minute time delay by shorting out the low-pressure switch on each compressor. This enables the unit compressor to start promptly as required.

Components are installed in 50BK or BU unit control box using factory pre-drilled holes.

Electrical connections from winter start control to 50BK or BU unit are field supplied.

INSTALLATION

Step 1 — Check package contents.

If items are missing or appear damaged in shipment, notify Carrier immediately.

Package Contents

- 2 — Time-Delay Relays (TDR's)
- 4 — Sheet Metal Screws, #8B x 1/2-in. long

WARNING

Before performing any service or maintenance operations on unit, turn off main power switch to unit. Open and tag all disconnects. Electrical shock could cause personal injury.

Step 2 — Mount Time-Delay Relays (TDR's).

Mount Time-Delay Relays in unit control box using pre-drilled holes and screws provided. Refer to Fig. 1 for TDR1 and 2 control box mounting locations.

Step 3 — Make electrical connections.

1. Be sure all unit disconnect switches are open.
2. Connect TDR1 relay coil terminals to control box terminals TB2-7 and TB2-6. Connect switching contacts to TB2-1 and TB2-8 (50BU units) or TB2-1 and TB2-3 (50BK units).
3. Connect TDR2 relay coil terminals to control box terminals TB2-2 and TB2-6 (50BU units) or TB2-6 and TB2-8 (50BK units). Connect switching contacts to TB2-3 and TB2-10 (50BU units) or TB2-2 and TB2-10 (50BK units). Refer to Fig. 2 and 3 wiring schematics.

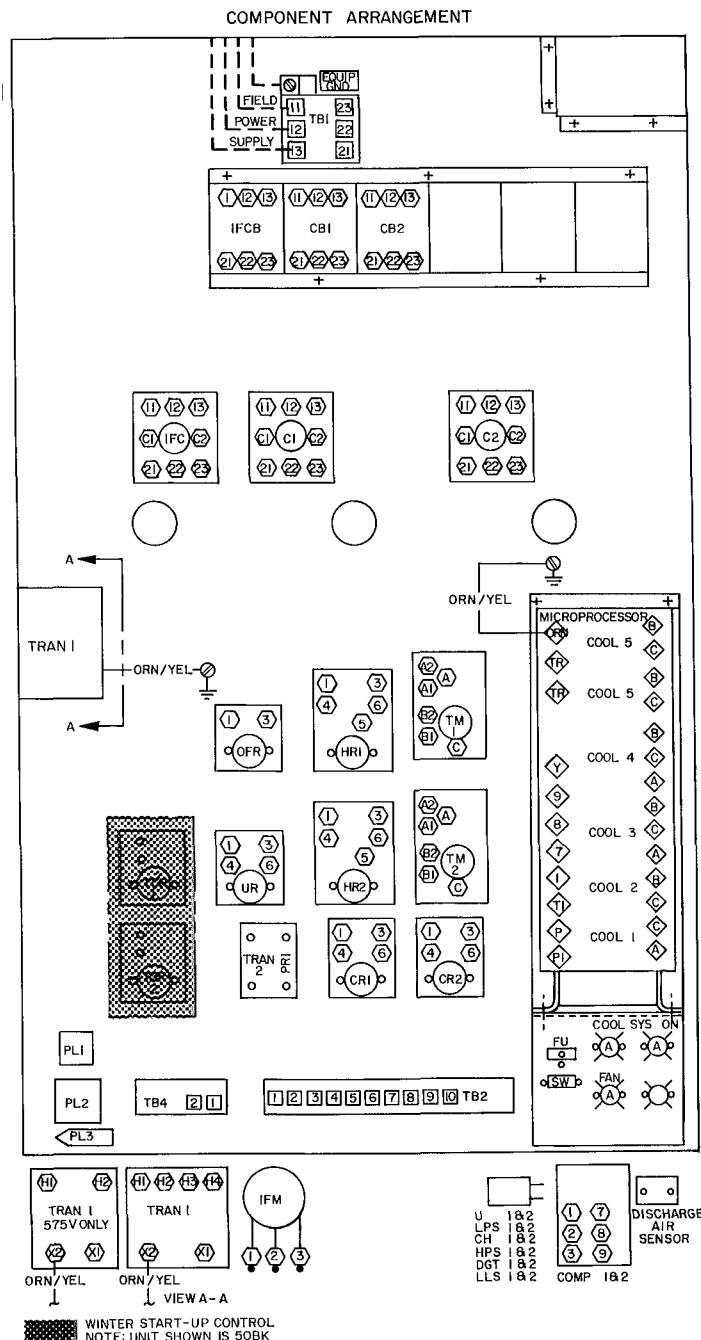
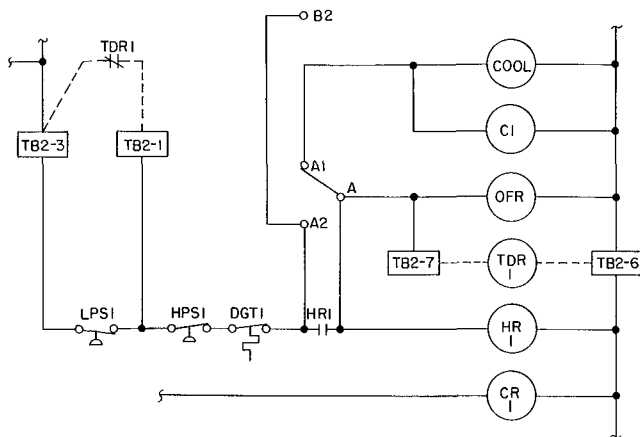
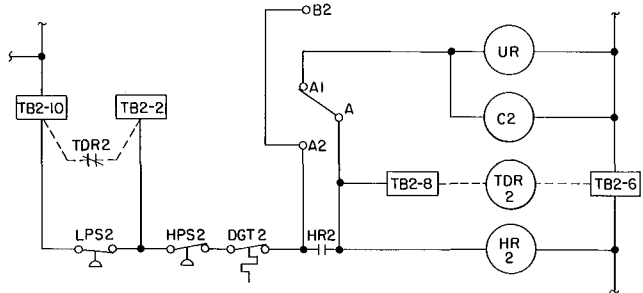


Fig. 1 — Control Box Mounting Locations —
TDR's 1 and 2

TDR 1 FIELD WIRING CONNECTIONS



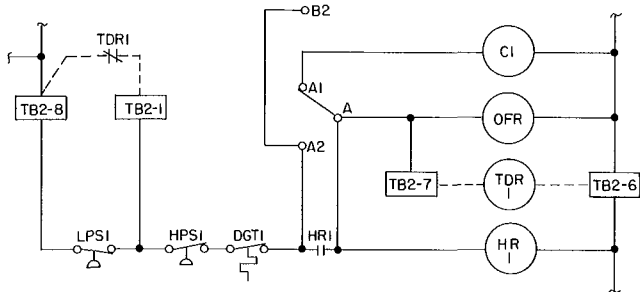
TDR 2 FIELD WIRING CONNECTIONS



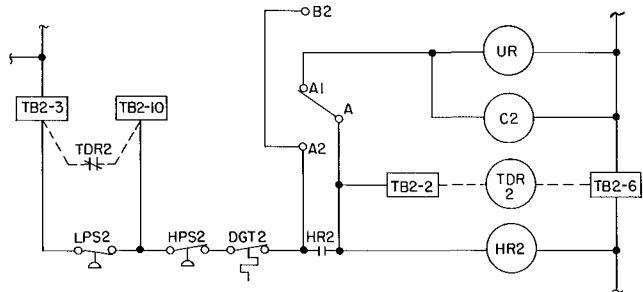
NOTE: For specific unit diagrams, refer to 50BJ,BK wiring book

Fig. 2 — Winter Start-Up Control Wiring; 50BK044,054,064 — (All Voltages)

TDR 1 FIELD WIRING CONNECTIONS



TDR 2 FIELD WIRING CONNECTIONS



NOTE: For specific unit diagrams, refer to 50BT,BU wiring book

Fig. 3 — Winter Start-Up Control Wiring; 50BU044,054,064 — (All Voltages)

LEGEND

- C** — Compressor Contactor
- CR** — Control Relay
- DGT** — Discharge Gas Thermostat
- HPS** — High-Pressure Switch
- HR** — Holding Relay
- LPS** — Low-Pressure Switch
- OFR** — Outdoor Fan Relay
- TB** — Terminal Board (Block)
- TDR** — Time-Delay Relay
- UR** — Unloader Relay
- Factory Wiring
- - - - - Field Wiring