



Installation Instructions

Relay Package Part Number 38AD900001
For Air-Cooled Remote Condensing Units

⚠ WARNING

Disconnect condensing unit power before installing accessories. Electrical shock could cause personal injury.

INSTALLATION

Accessory relay package 38AD900001 allows one or 2 24-v thermostats to control a 38AH condensing unit. One relay package is required for each thermostat and circuit board to be installed.

The accessory relay package can be used on 38AH units equipped with 115-v single-phase, 60 Hz control power, which is used on units that have 208/230-3-60, 460-3-60, and 575-3-60 main power ratings.

Table 1 lists figures containing detailed connection diagrams from specific thermostat, unit, and refrigerant circuit configurations. Locate the correct diagram for the application and use the following general procedure to install the relay package:

1. Disconnect all power to the condensing unit.
2. For all condensing units, install the relay package *inside* the unit control box.
3. As shown in Fig. 1-6, connect the 5 color-coded wires (BLK, VIO, BRN, RED, YEL) from the relay package to the unit's control terminal block using quick-connect terminals. For 38AH124 and 134 units using a single relay package, an additional field-supplied wire must be connected. See Fig. 6 and Note 2.

4. Connect 5 field-supplied wires from the terminals on the right side of the relay pack circuit board to the terminal block in the accessory relay package, as shown in Fig. 1-6. (All power is supplied by the condensing unit.)
5. Connect 2 field-supplied wires from terminals 4 and 5 on the right side of the relay pack circuit board to the heating devices as required.
6. Restore power to the unit.

For details on thermostat and circuit board installation and wiring, see instructions supplied in the related kits.

Table 1 — Connection Diagrams

38AH UNIT	NUMBER OF REFRIGERANT CIRCUITS	NUMBER OF THERMOSTATS	FIGURE NUMBER
044-084 Single-Circuit Units; Modules 124A,B and 134A,B	1	1	1
044-084	2	1	2
		2	3
094-104	2	1	4
		2	5
124,134	2	1	6

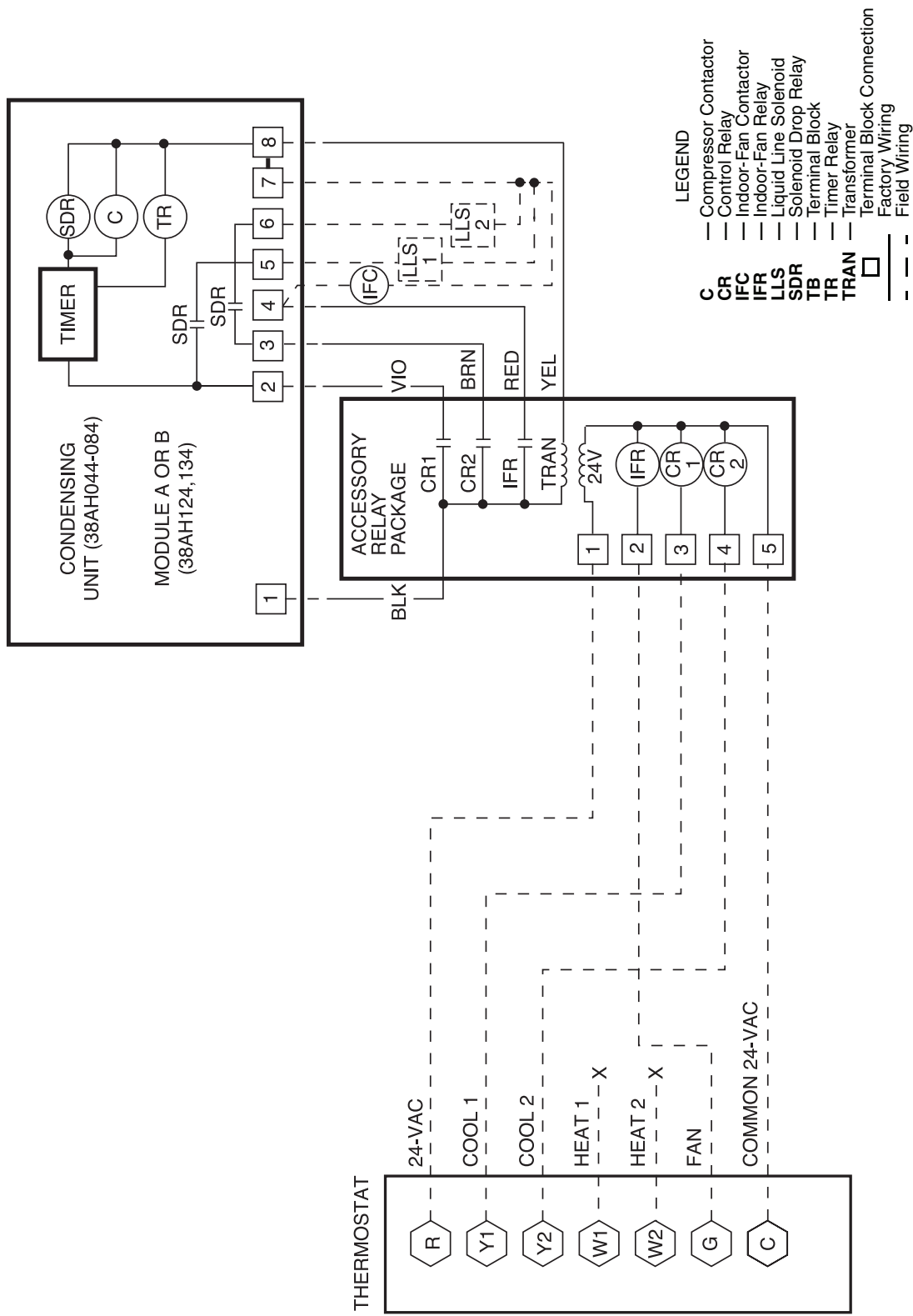


Fig. 1 — Control Circuit Wiring with One Relay Package and One 2-Stage Thermostat — 38AH044-084 Single-Circuit Units, 38AH124 and 134 Modules (One Air Handler Per Single-Circuit Unit or Module)

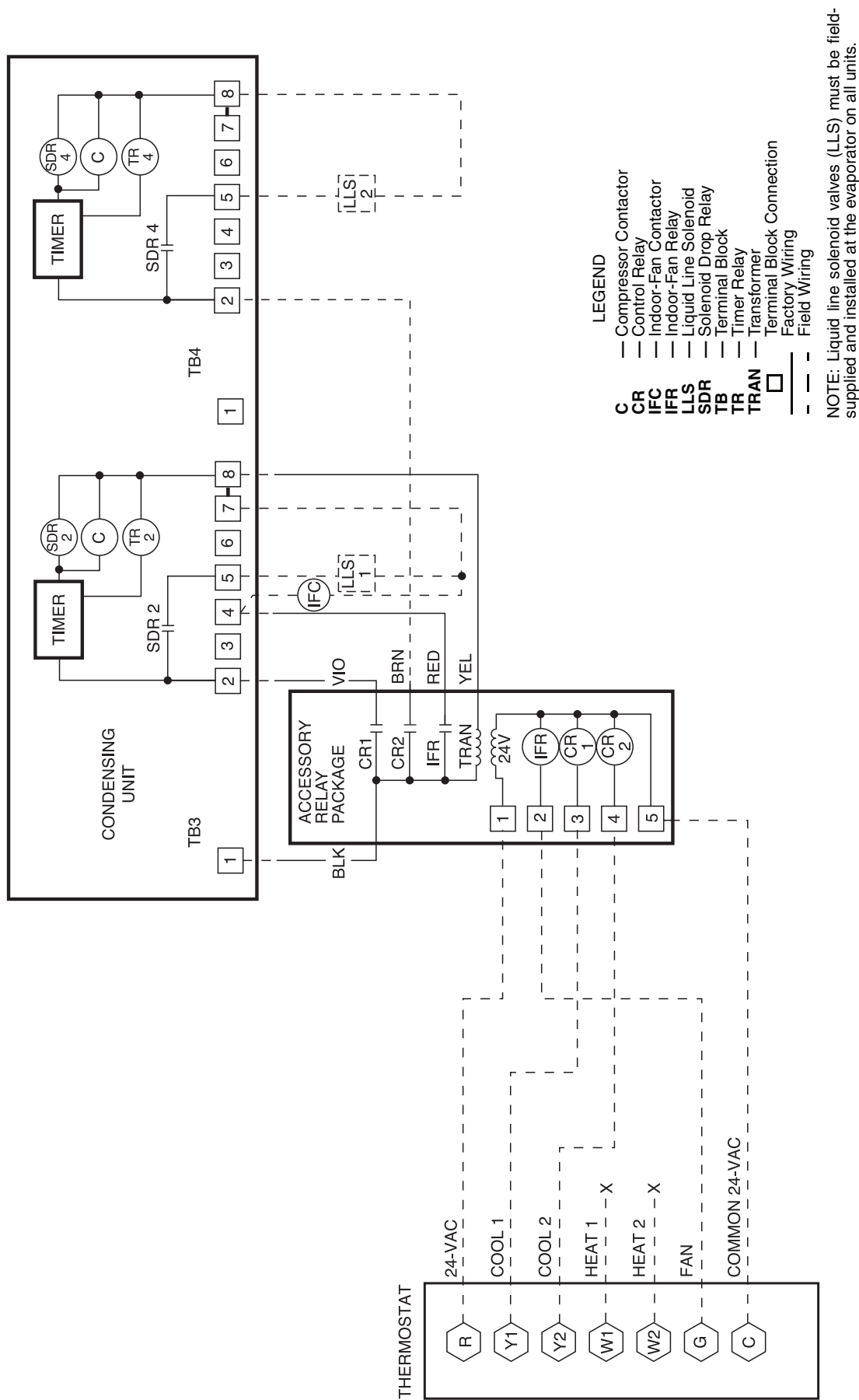


Fig. 2 — Control Circuit Wiring with One Relay Package and One 2-Stage Thermostat — 38AH044-084 Units (Dual-Circuit Units with One Air Handler)

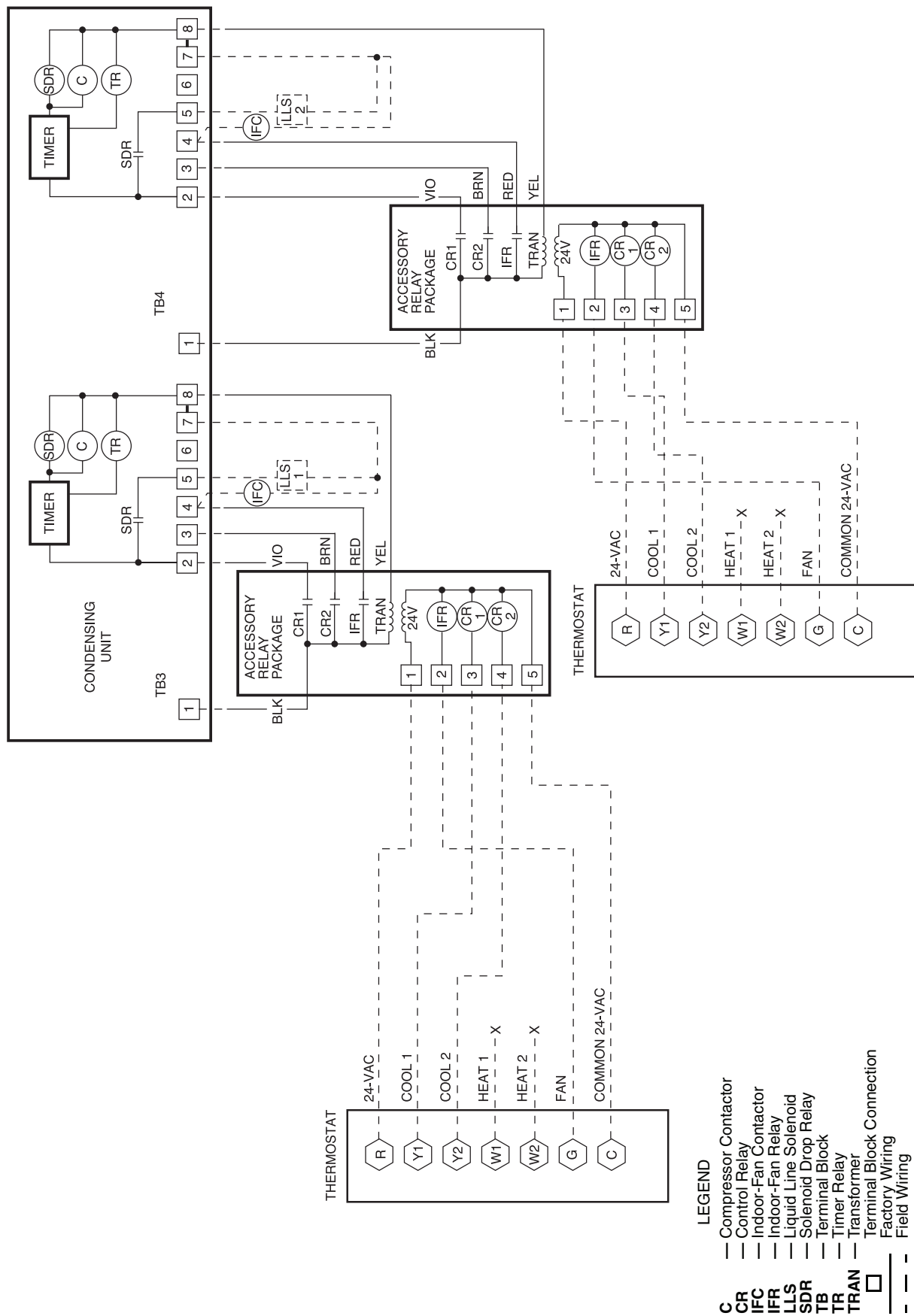


Fig. 3 — Control Circuit Wiring with 2 Relay Packages and Two 2-Stage Thermostats — 38AH044-084 Units (Dual-Circuit Units with 2 Air Handlers)

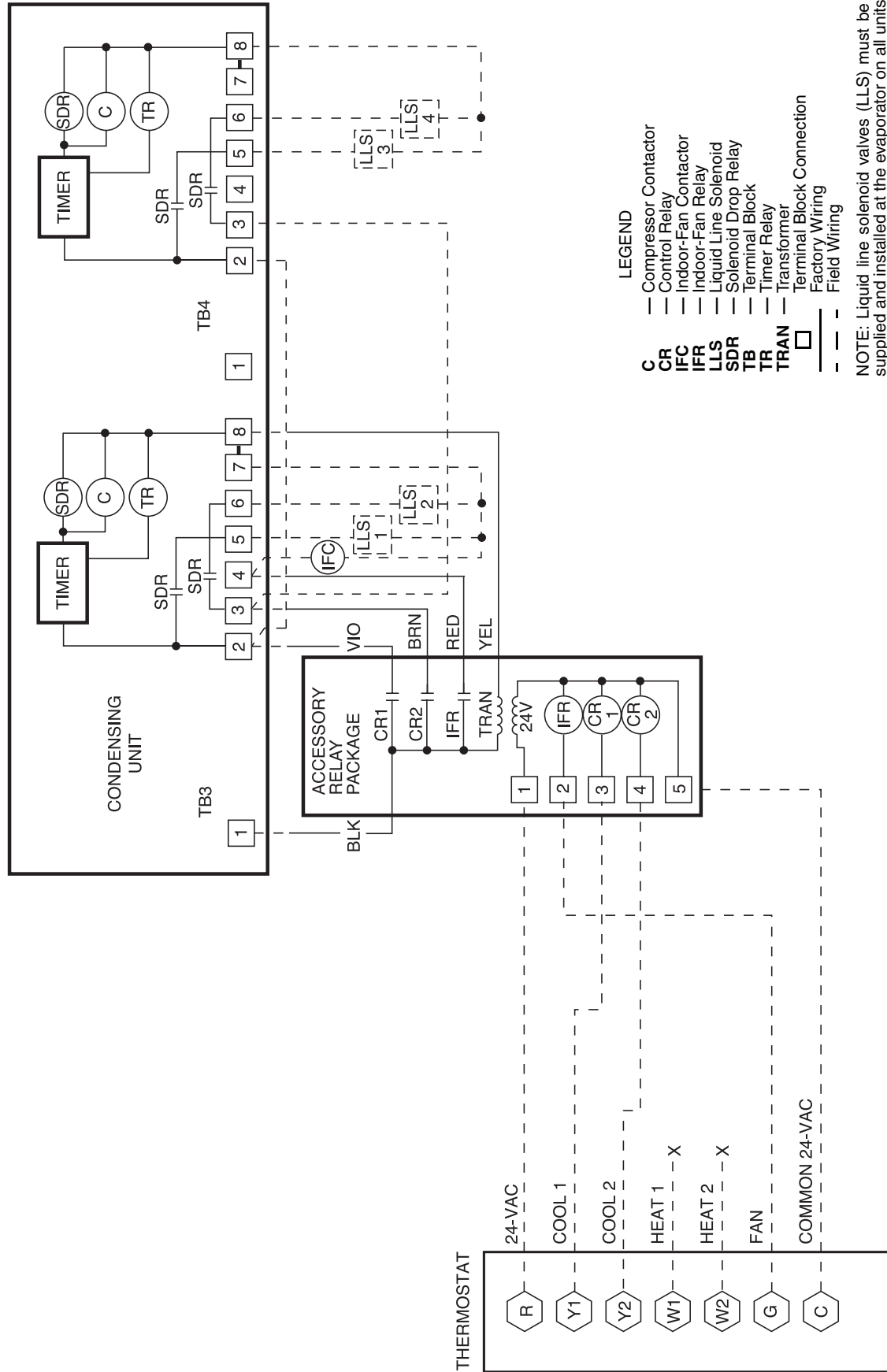


Fig. 4 — Control Circuit Wiring with One Relay Package and One 2-Stage Thermostat — 38AH094-104 Units (Dual-Circuit Units with One Air Handler)

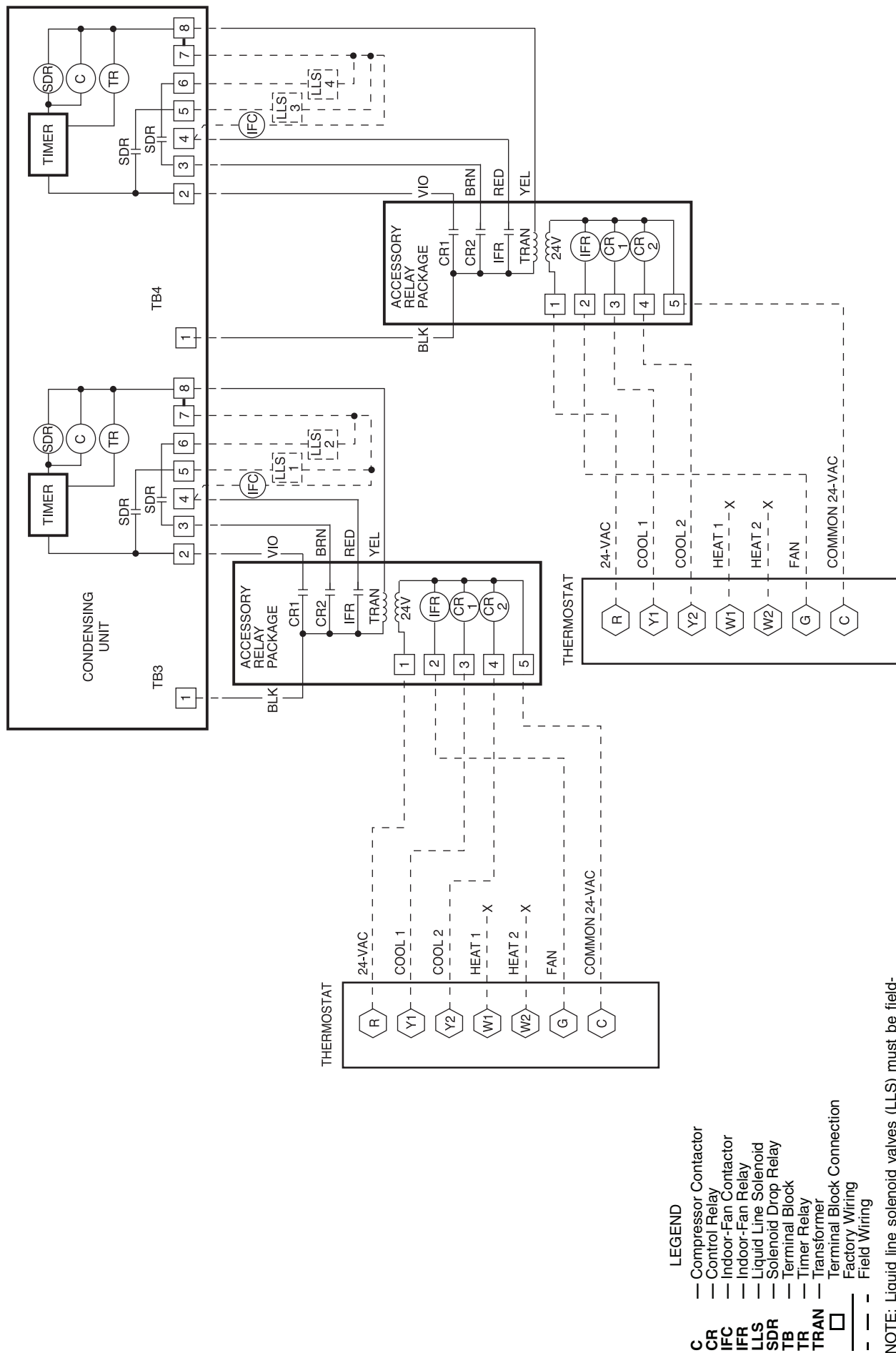


Fig. 5 — Control Circuit Wiring with 2 Relay Packages and Two 2-Stage Thermostats — 38AH094, 104 Units (Dual-Circuit Units with 2 Air Handlers)

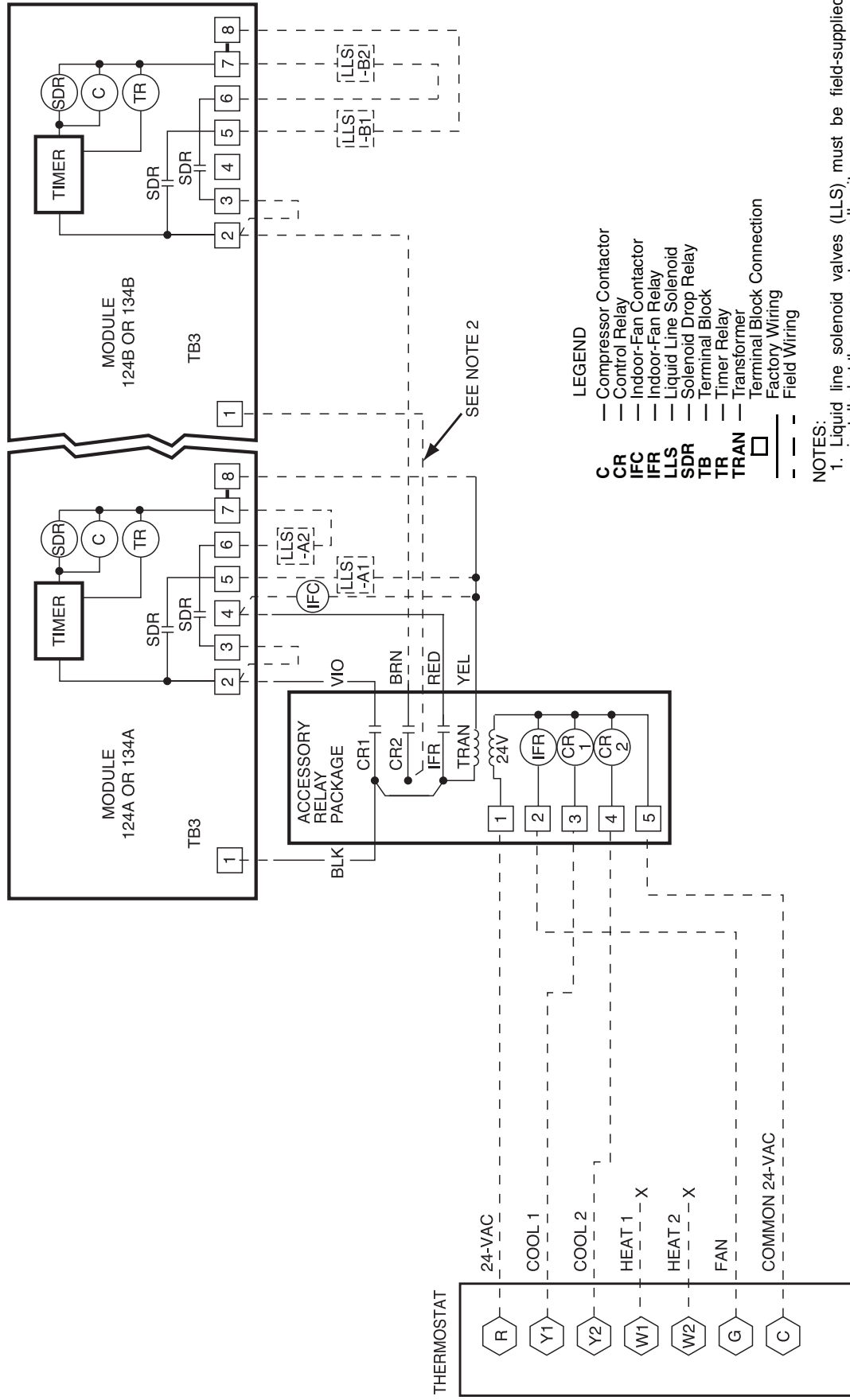


Fig. 6 — Control Circuit Wiring with One Relay Package and One 2-Stage Thermostat — 38AH124,134 Units (Dual-Circuit Units with One Air Handler)

