

INSTALLATION

Field-Supplied Hardware — Each fan coil relay board requires the following field-supplied components to complete its installation:

- Four 8 x 3/4-in. sheet metal screws (for mounting fan coil relay board to fan coil)
- 1/4 in. insulated female type crimp lugs (number is dependent on application)

Mounting Fan Coil Relay Board

LOCATION — The fan coil relay board should be located inside one of the available service access panels of the fan coil unit. Do not mount the fan coil relay board under water piping or in the valve/coil header compartment. Allow at least six inches clearance between the fan coil relay board and adjacent surfaces for servicing.

MOUNTING — Mount the fan coil relay board to the desired location by holding the fan coil relay board in place and screwing four no. 8 sheet metal screws (field-supplied) through the four mounting holes on the relay board.

Wiring Requirements — The fan coil relay board has the following wiring requirements:

1. All wiring must be in compliance with all applicable local and national codes.
2. Control wiring should be 18 to 20 AWG (American Wire Gage) stranded wire, rated at 600 vac for control wiring connections.
3. Line voltage control device output connections requires 18 AWG or larger, (as required by application or code) Thermoplastic Flexible Fixture, Nylon jacket (TFFN) stranded type wire rated for 600 vac.

▲ WARNING

Before performing service or maintenance operations on the system, turn off main power switches to the unit. Electric shock can cause personal injury.

Wiring the Fan Coil Relay Board — Perform the following steps to wire the fan coil relay board to either a fan or line voltage valve actuator. See Fig. 2-5.

NOTE: For all applications, verify that the fan coil controller's 24 VAC+ terminal on J1 is connected to the fan coil controller's FAN AC terminal on J6.

Verify that the fan coil controller's 24 VAC terminal on J5 is connected to the fan coil controller's FAN AC terminal on J6.

SINGLE-SPEED FANS — See Fig. 2.

Control Voltage Wiring

1. Connect the fan coil controller's FAN ON terminal on J6 to the G terminal on relay board.
2. Connect the fan coil controller's COM terminal on J5 to COM terminal on relay board.

Line Voltage Wiring

1. Connect the relay board FAN terminal to the black line voltage supply.

2. Connect the relay board (VALVE) terminal to the fan motor.
3. Restore power.

MULTISPEED FANS — See Fig. 3.

Control Voltage Wiring

1. Connect the fan coil controller's FAN ON terminal on J6 to the G terminal on relay board.
2. Connect the fan coil controller's MED terminal on J6 to the G2/(W) terminal on relay board.
3. Connect the fan coil controller's HIGH terminal on J6 to the G3/(Y) terminal on relay board.
4. Connect the fan coil controller's COM terminal on J5 to COM terminal on relay board.

Line Voltage Wiring

1. Connect the relay board FAN terminal to the black line voltage supply.
2. Connect the relay board LO terminal to the first fan motor speed tap.
3. Connect the relay board MED(HEAT) terminal to the second fan motor speed tap.
4. Connect the relay board HI(COOL) terminal to the third fan motor speed tap.
5. Restore power.

TWO-PIPE WATER VALVE APPLICATION WITH LINE VOLTAGE VALVE — See Fig. 4.

Control Voltage Wiring

1. Connect the fan coil controller's VALVE/DX1 terminal on J5 to the G terminal on relay board.
2. Connect the fan coil controller's COM terminal on J5 to the COM terminal on relay board.

Line Voltage Wiring

1. Connect the relay board FAN terminal to the black line voltage supply.
2. Connect the relay board (VALVE) terminal to the water valve.
3. Restore power.

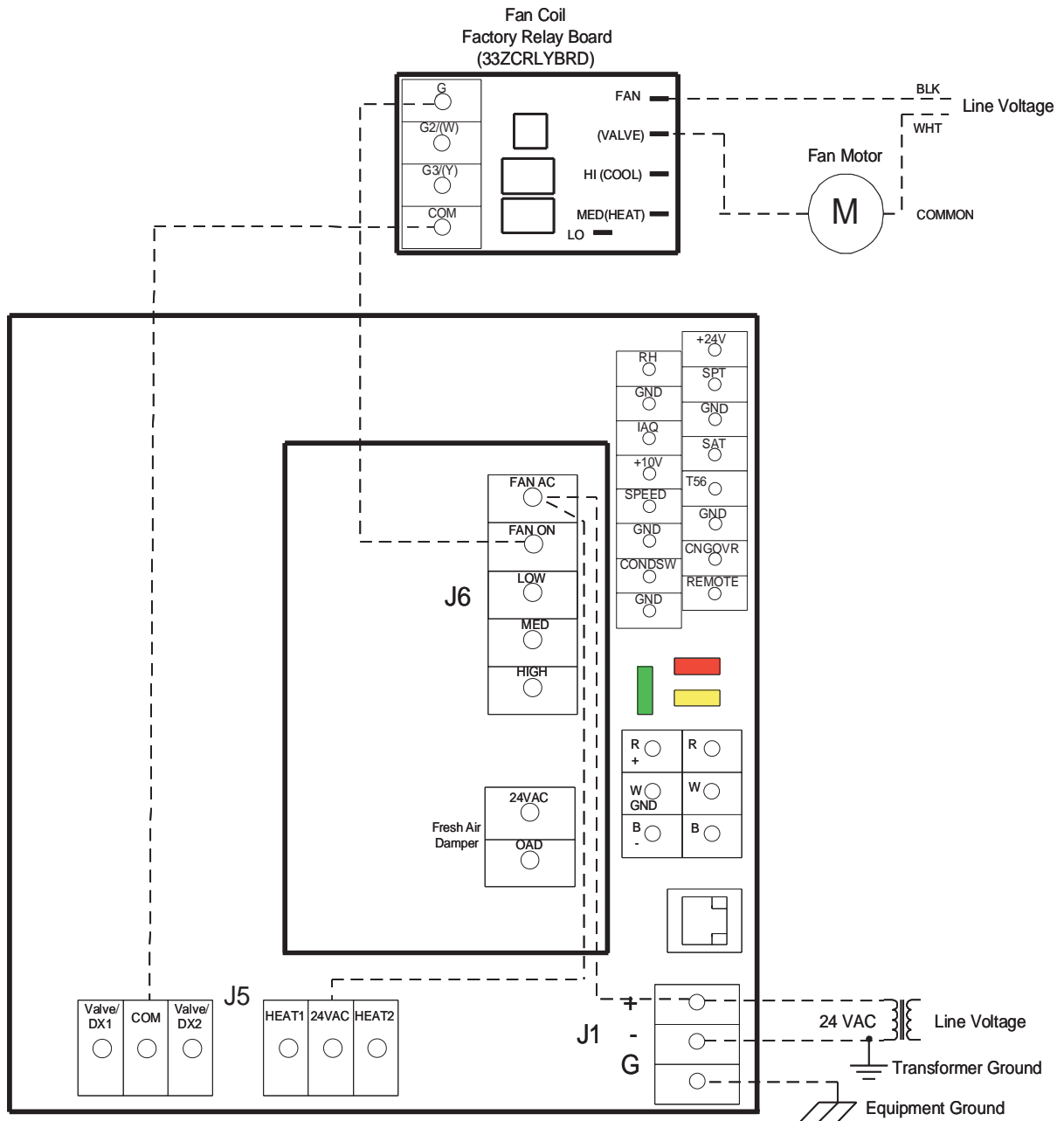
FOUR-PIPE WATER VALVE APPLICATION WITH LINE VOLTAGE VALVE — See Fig. 5.

Control Voltage Wiring

1. Connect the fan coil controller's HEAT1 terminal on J5 to the G2/(W) terminal on relay board.
2. Connect the fan coil controller's VALVE/DX1 terminal on J5 to the G3/(Y) terminal on relay board.
3. Connect the fan coil controller's COM terminal on J5 to the COM terminal on relay board.

Line Voltage Wiring

1. Connect the relay board (VALVE) terminal to the black line voltage supply.
2. Connect the relay board MED(HEAT) terminal to the heating valve.
3. Connect the relay board HI(COOL) terminal to the cooling valve.
4. Restore power.



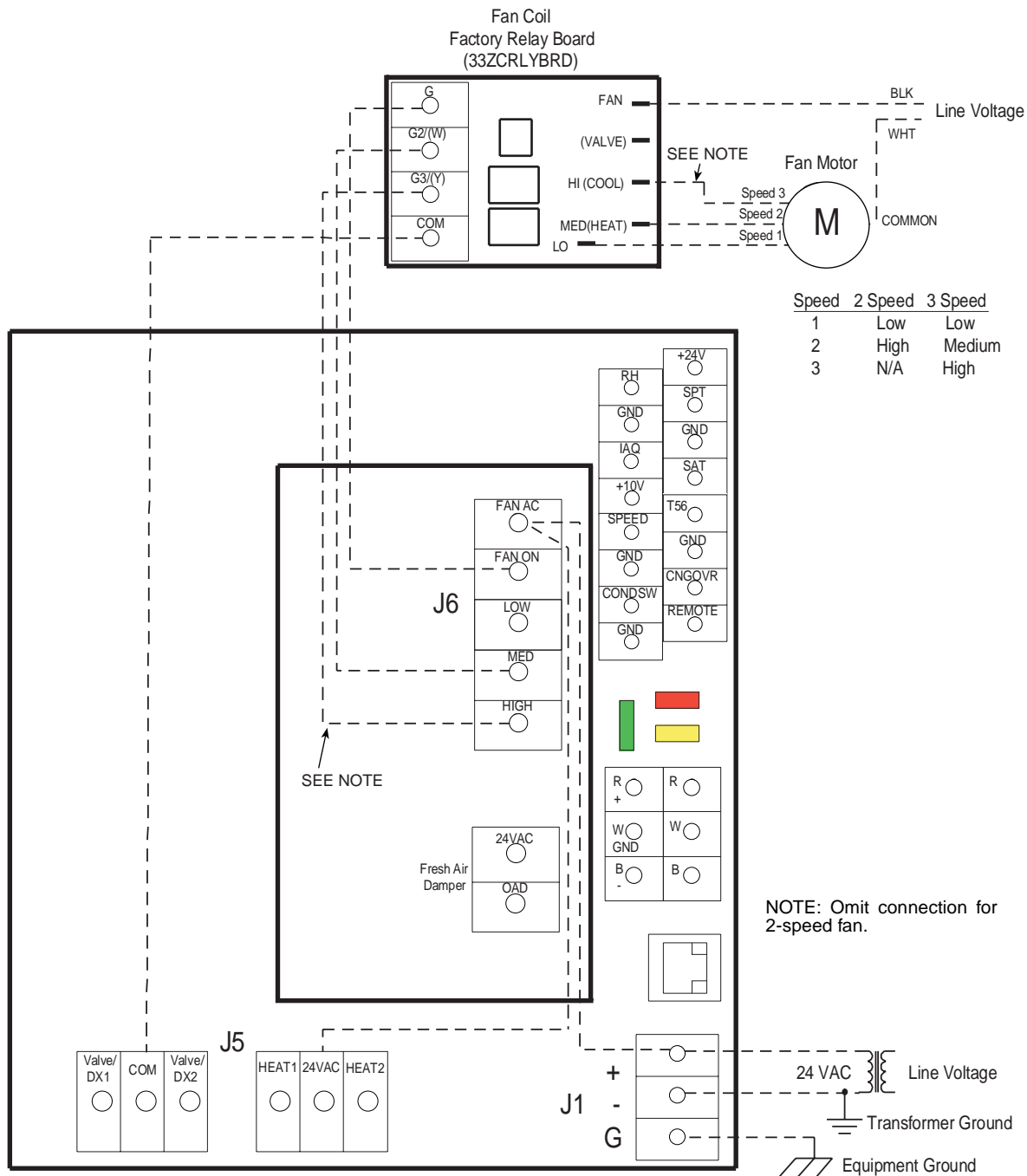
Control Voltage Relay Board Connections

RELAY BOARD PIN	FAN COIL PIN	DESCRIPTION
G	J6-FAN ON	Fan Start/Stop
COM	J5-COM	Common

Line Voltage Relay Board Connections

RELAY BOARD PIN	CONNECTION	DESCRIPTION	CONTROL DEVICE
FAN	Line Voltage Supply	Motor Power Input	120 to 277 vac @ 10 A (2000 VA Maximum)
(VALVE)	Fan Motor	Single Motor Speed	

Fig. 2 — Fan Coil Relay Board Wiring — Single-Speed Fan Application



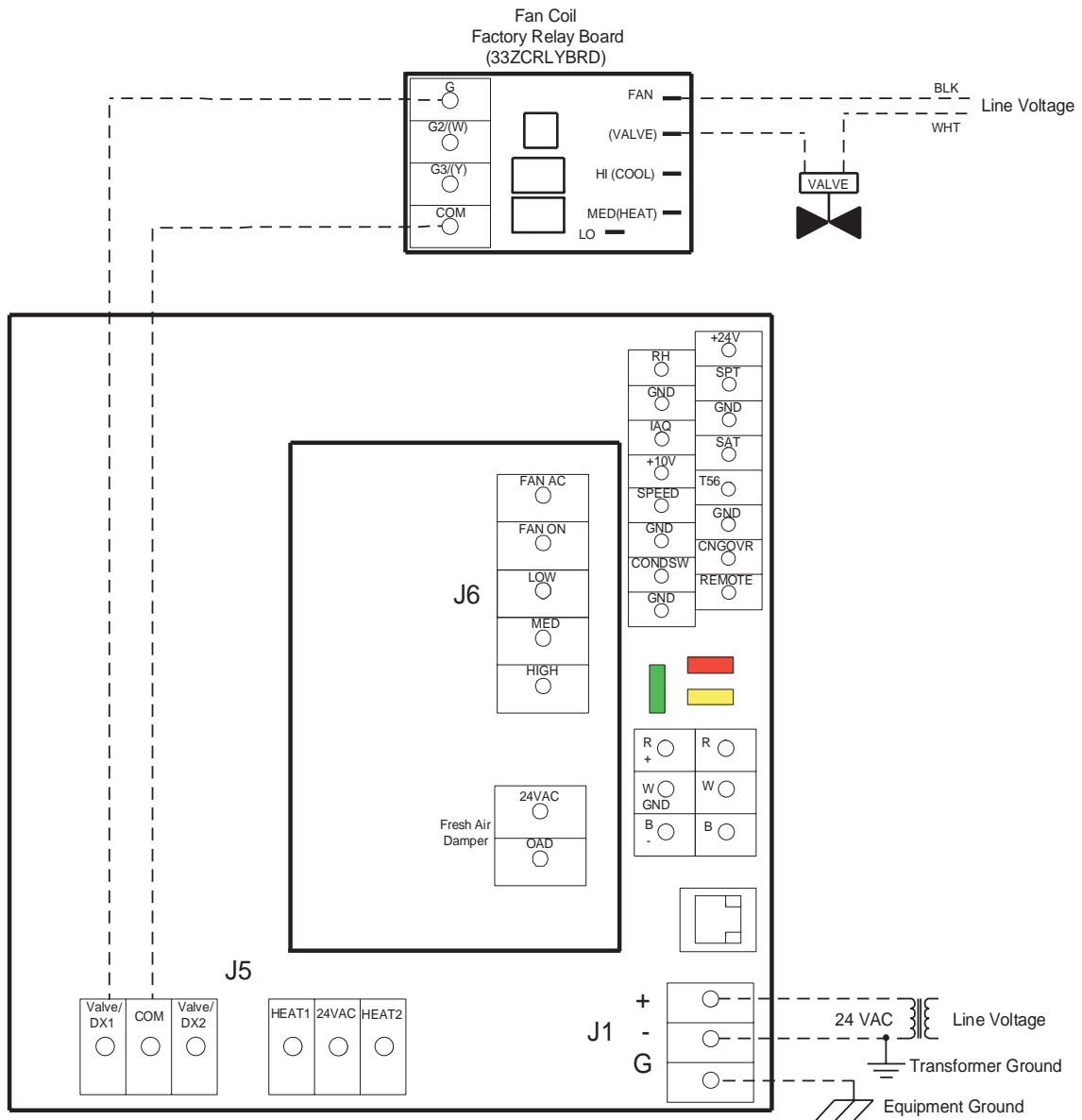
Control Voltage Relay Board Connections

RELAY BOARD PIN	FAN COIL PIN	DESCRIPTION
G	J6-FAN ON	Fan Start/Stop
G2(W)	J6-MED	Fan Medium Speed
G3(Y)	J6-HIGH	Fan High Speed
COM	J5-COM	Common

Line Voltage Relay Board Connections

RELAY BOARD PIN	CONNECTION	DESCRIPTION	CONTROL DEVICE
FAN	Line Voltage Supply	Motor Power Input	120 to 277 vac @ 10 A (2000 VA Maximum)
LO	Fan Motor	First Motor Speed	
MED(HEAT)	Fan Motor	Second Motor Speed	
HIGH(COOL)	Fan Motor	Third Motor Speed	

Fig. 3 — Fan Coil Relay Board Wiring — Multispeed Fan Application



Control Voltage Relay Board Connections

RELAY BOARD PIN	FAN COIL PIN	DESCRIPTION
G	J5-Valve/DX1	Valve
COM	J5-COM	Common

Line Voltage Relay Board Connections

RELAY BOARD PIN	CONNECTION	DESCRIPTION	CONTROL DEVICE
FAN	Line Voltage Supply	Motor Power Input	120 to 277 vac
(VALVE)	Water Valve	Valve Control	25 VA Maximum

Fig. 4 — Fan Coil Relay Board Wiring — 2-Pipe Water Valve Application

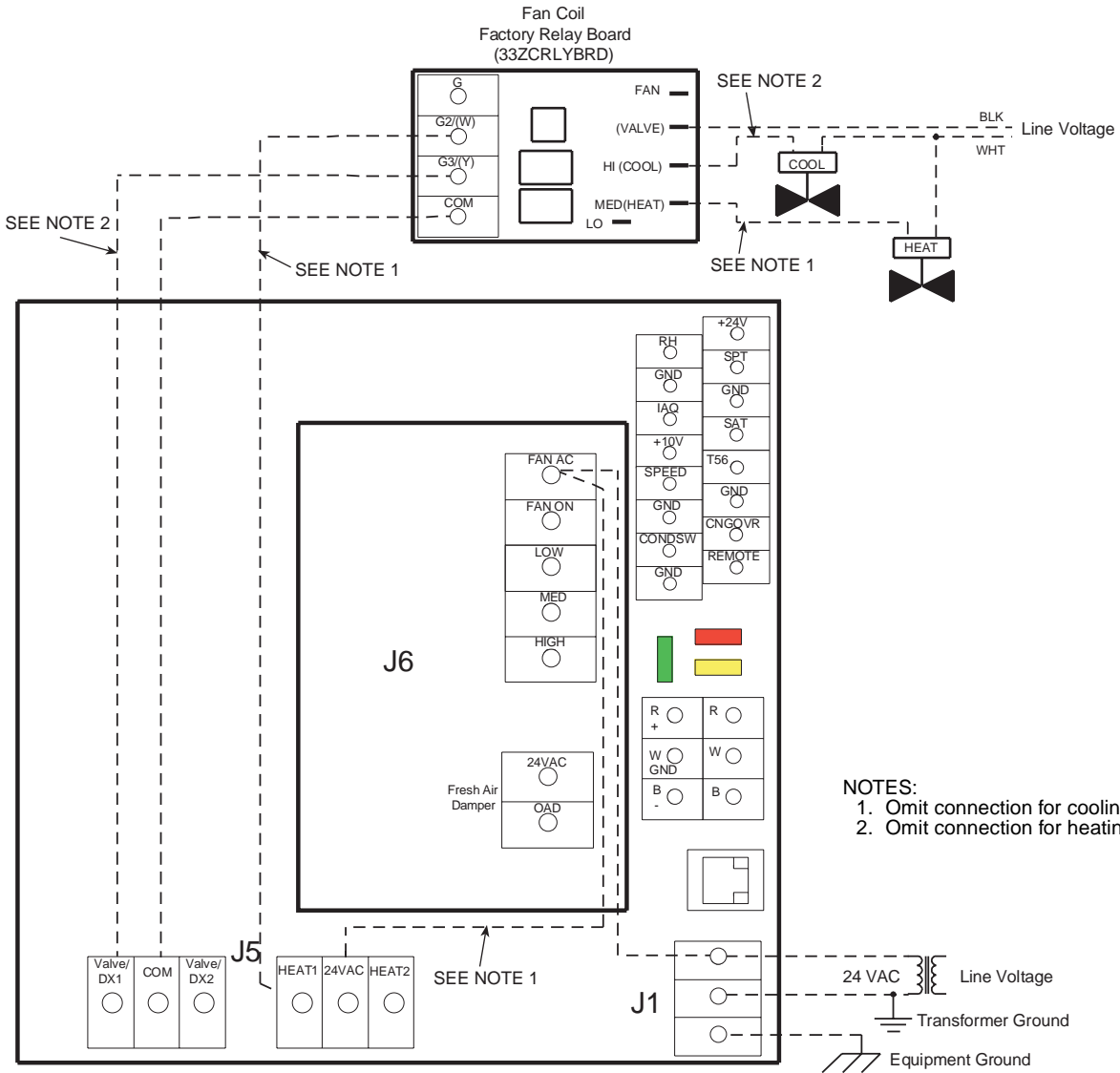


Fig. 5 — Fan Coil Relay Board Wiring — 4-Pipe Water Valve Application

