

IMPORTANT

The transformer on the R182C may overheat when used with a series 20 thermostat if the total resistance of the thermostat circuit exceeds 2.5 ohms. If the measured resistance of the thermostat (including thermostat wire and thermostat contact resistance) exceeds 2.5 ohms, add a 100 ohm, 10 watt resistor between the W and R terminals. Table I gives maximum thermostat wire runs; if longer runs are necessary, measure the resistance or add a 100 ohm, 10 watt resistor across terminals W and R.

TABLE I

AWG WIRE SIZE (NUMBER)	TOTAL WIRE LENGTH		LENGTH OF RUN TO THERMOSTAT (2 WIRES)	
	FEET	METRES	FEET	METRES
22	120	38.0	60	18.0
20	200	61.0	100	30.5
18	300	91.5	150	45.5
16	500	152.5	250	76.0
14	800	244.0	400	122.0

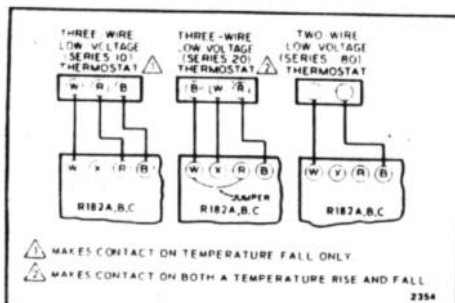


Fig. 3—Thermostat connections for R182A,B,C.

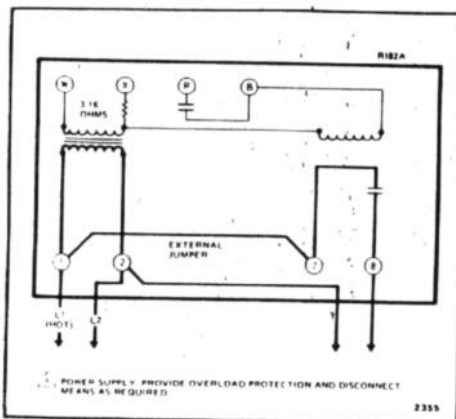


Fig. 4—Typical hookup for R182A. See Fig. 3 for thermostat connections.

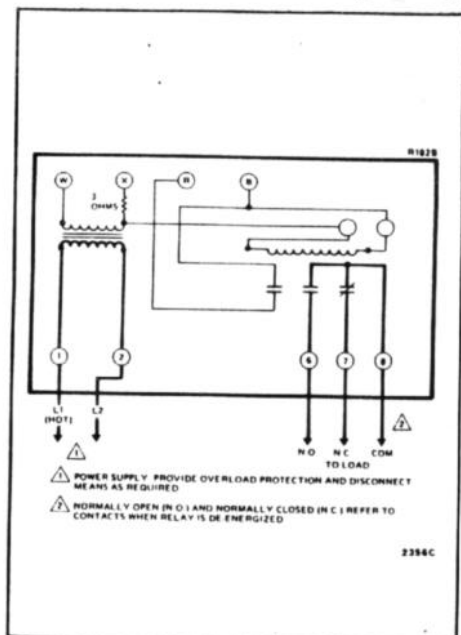


Fig. 5—Typical hookup for R182B. See Fig. 3 for thermostat connections.

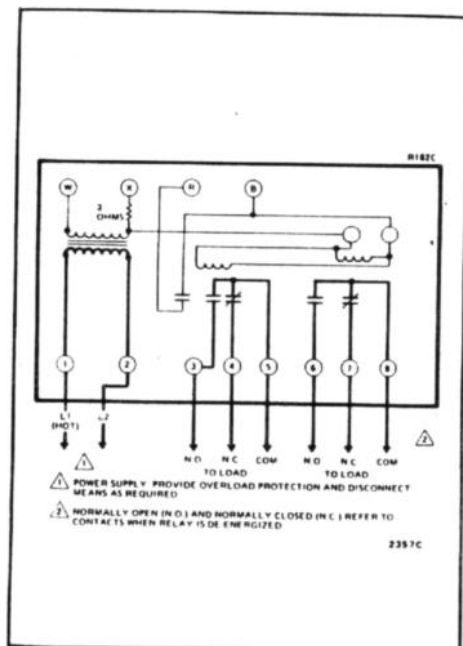


Fig. 6—Typical hookup to R182C. (Relay may be connected for spst, spdt, or dpst switching, if desired.) See Fig. 3 for thermostat connections.

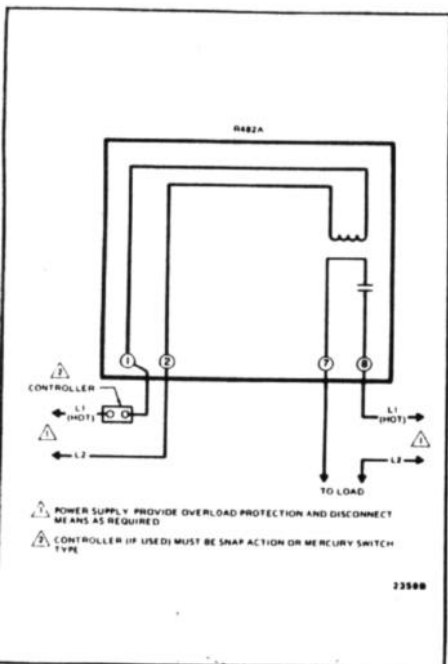


Fig. 7—Typical hookup for R482A.

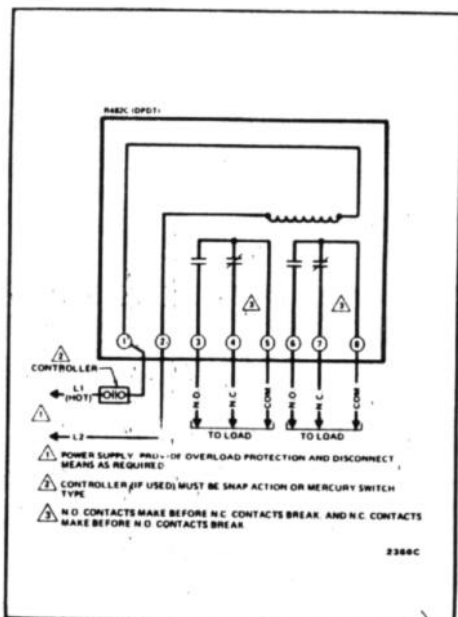


Fig. 9—Typical hookup for R482C, R482D is the same with the exception of overlapping relay contacts and contact ratings.

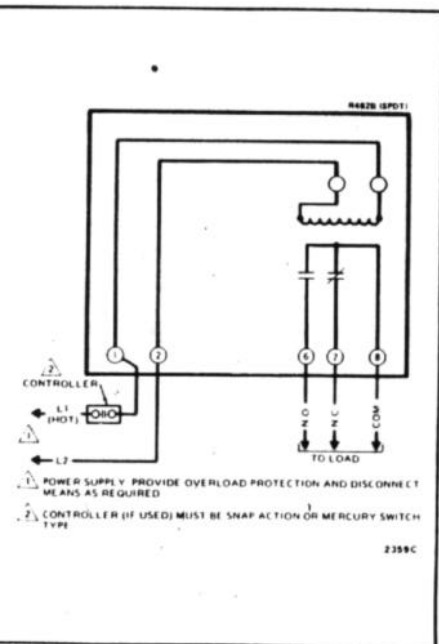


Fig. 8—Typical hookup for R482B.

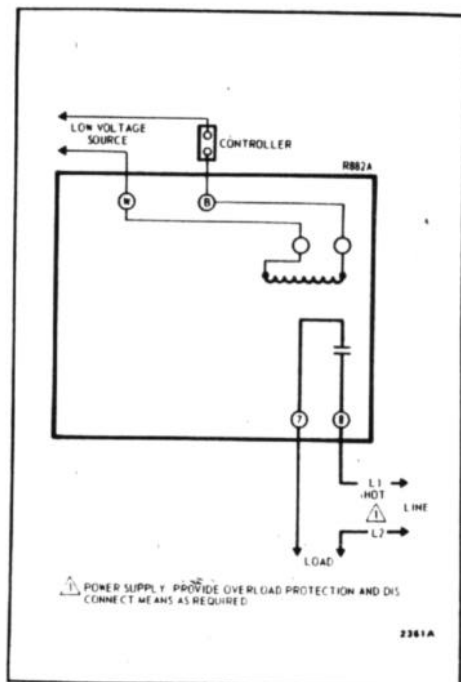


Fig. 10—Typical hookup for R882A.

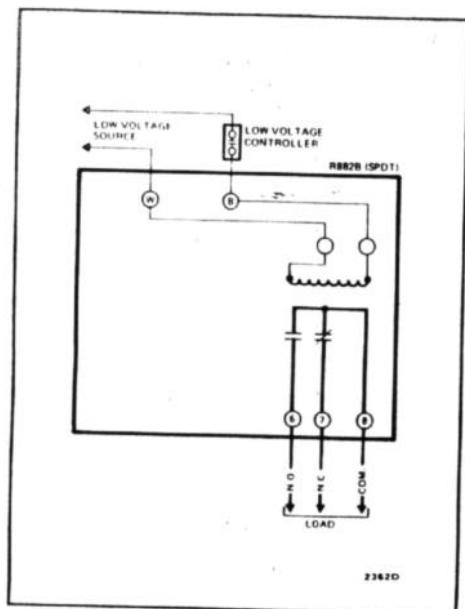


Fig. 11—Typical hookup for R882B.

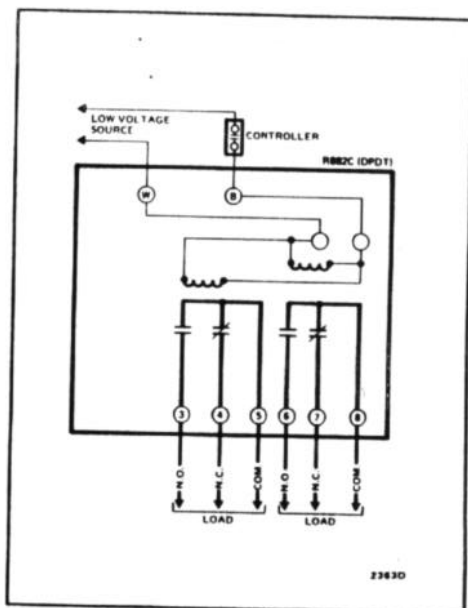


Fig. 12—Typical hookup for R882C.

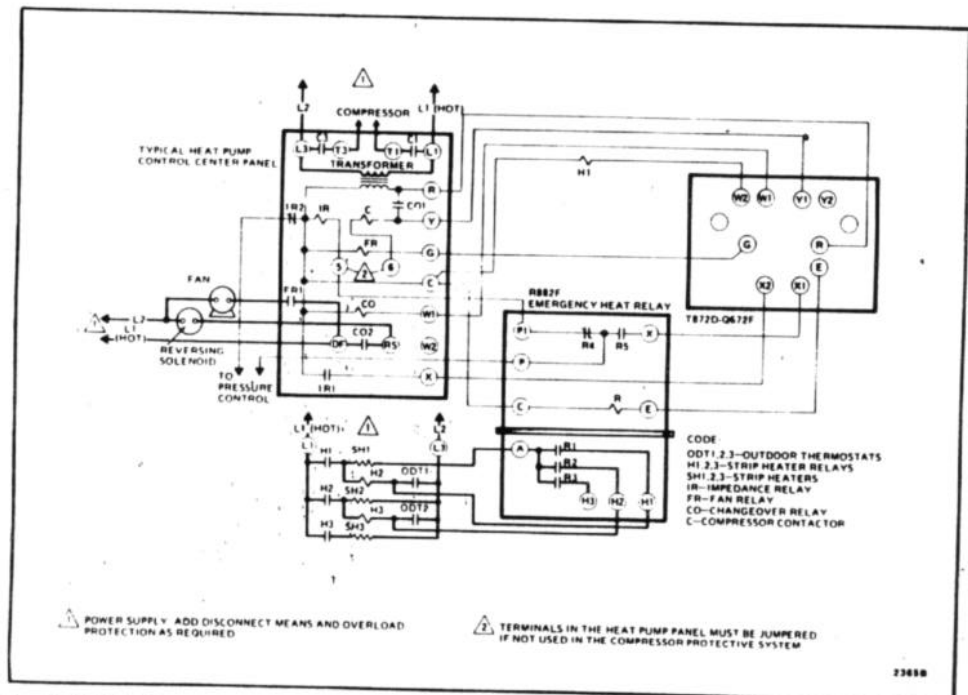


Fig. 13—R882F Emergency Heat Relay used with heat pump panel (with impedance relay). Auxiliary strip heater relay no. 1 is powered from the low voltage heat pump panel circuit. For internal schematic of T872D and O672F, see Fig. 15.

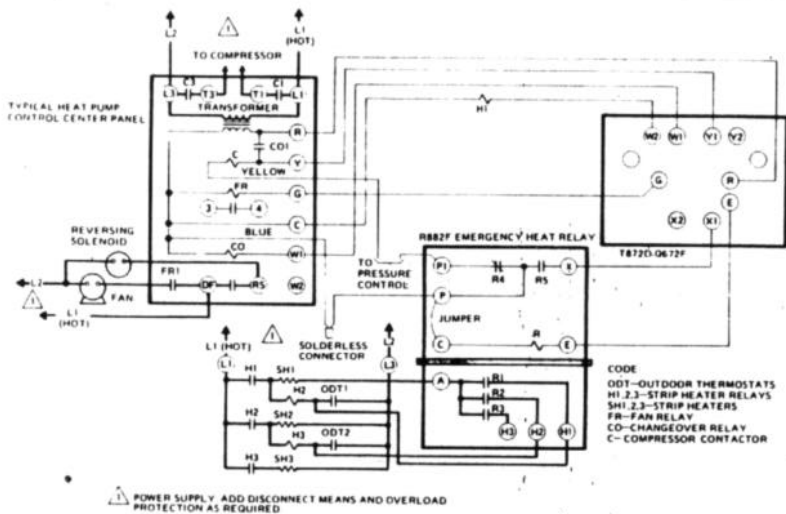


Fig. 14—R882F Emergency Heat Relay used with heat pump panel (without impedance relay). Auxiliary strip heater relay no. 1 is powered from the low voltage heat pump panel circuit. Strip heater relays 2 and 3 are powered from a separate line voltage source. For internal schematic of T872D and Q672F, see Fig. 15.

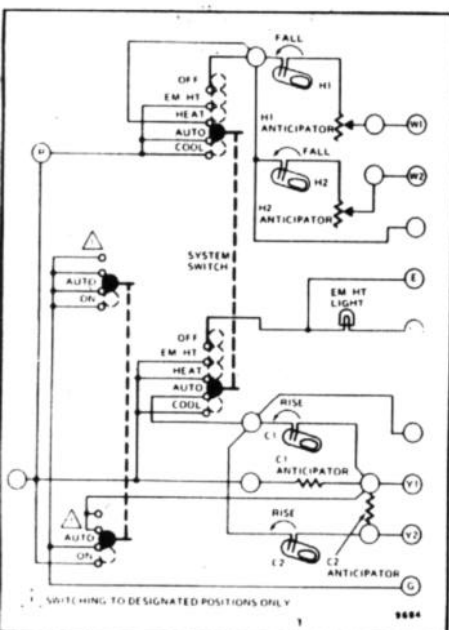


Fig. 15—Internal schematic for Q672F subbase with T872D thermostat.

SERVICE AND CHECKOUT

1. Never use oil on any part of the relay coil or contacts.
2. The cover should be kept on the relay during normal operation and removed only for service and checkout.
3. Relay contacts are arranged so that they close with a wiping action and are self-cleaning. The contacts may turn black after being in service for some time. This discoloration does not prevent proper operation.
4. After installation is complete, operate the relay and equipment through at least 1 complete cycle to make sure that the relay controls the equipment as intended.

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 Honeywell Inc.
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