

WIRING FOR FAN CONTROL MODULE BOARD KIT NO. 520832

NOTE: The purpose of this kit is to enable a repair agency to rewire the SF series RV furnace in order to use the module board with fan control relay.

It is applicable only to the following models:

SF-20 • SF-25 • SF-30 • SF-35 • SF-42
SF-20F • SF-25F • SF-30F • SF-35F • SF-42F

NOTE: Fan control module board supplied separately.

INSTALLATION INSTRUCTIONS

1. Shut-off electrical supply and disconnect wiring at furnace.
2. Remove vent cap assembly.
3. Shut-off gas supply and disconnect at furnace.
4. For the SF-F series, remove the cabinet front. Remove the tie down screw (center of unit) and pull furnace from cabinet.

For the SF series, remove outer panel or furnace access door. Remove tie-down screw at blower base and pull furnace from cabinet.

5. Disconnect the following wires from the furnace and **discard**:

- A.) The blue wire from valve switch to time delay relay.
- B.) The red power wire at time delay relay.
- C.) The green wire at time delay relay to ground terminal strip.
- D.) The blue thermostat wire to time delay relay and limit switch.

NOTE: If your furnace is equipped with a special connector plug for external wire connections, this must be cut from the connector and reconnected using wire nuts.

6. Disconnect the red motor lead from the time delay relay. **DO NOT DISCARD.** Using the 19" red wire supplied with kit, connect one end to the red motor lead and the other end to the blower terminal (BLO) on module board.

7. Connect the piggy-back terminals on the 5" blue wire (supplied with kit) to the power terminal (PWR) on module board. Connect the other end of the 5" blue wire to the valve switch.

8. Connect the 15" blue wire (supplied with kit) to terminal #2 on module board connector.

9. Using the 31" white wire and 41" blue wire assembly (supplied with kit), connect the terminal with both white and blue wires to the male terminal on the blue wire from terminal #2 of module board connector. Connect the white wire to limit switch. Connect the blue wire to the external thermostat wire (negative leg) using a wire nut.

10. Connect the 39" red wire (supplied with kit) to the piggy-back terminal on power terminal (PWR) off module board. Connect the stripped end to the external power supply (+ 12 V.D.C.) using a wire nut.

11. Check all wiring connections using enclosed wiring diagram #340501.

12. Connect to power and gas and verify proper furnace operation.

13. Adhere new wiring diagram #340501 over the top of the existing wiring diagram on the furnace.

14. Reinstall furnace into cabinet and secure.

15. Reconnect gas and electrical power.

16. Cycle furnace through thermostat for one complete cycle, to assure proper operation.

17. Check for gas leaks.

18. Reconnect vent assembly.