

Light Commercial

Installation Instructions

Compressor Lockout Board Accessory Kit

12.5 and 15 Ton Light Commercial #919128

This current sensing lockout control is specifically designed to open a relay contact when current through the sensing loop falls below 0.5 Ampere. It is for use as compressor protection in the event the compressor fails to start while there is a call for cooling in the compressor motor circuit. The compressor circuit shuts down and locks out until 24 Volt power is reset to the unit by manually operating the thermostat selector switch to the OFF position and then back to the ON position.

Optional: An indicator lamp may be illuminated via the N.O. contacts ("X" and Terminal # 1 (24V Com.)) to indicate lockout. Additional field wiring is required and supplied by the installer. Any additional wiring must be rated minimum 600V and 75 Deg. C

WARNING!

This kit is to be installed by a qualified service technician in accordance with these instructions and all codes having jurisdiction. Failure to follow these instructions could result in serious injury, property damage or death.

WARNING!

All electrical wiring must comply with the latest edition of the National Electrical Code ANSI/NFPA 70.

These instructions are primarily intended to assist qualified individuals experienced in the proper installation of this appliance. Some local codes require licensed installation/service personnel for this type of equipment.

This kit contains:

- 2 – Current Sensing Lockout Boards
- 2 – 18" Red Wires
- 2 – 12" Black Wires
- 1 – Installation Instruction Sheet

Installation

1. **DISCONNECT ALL ELECTRICAL POWER TO THE UNIT.**
2. Open Control Access Panel and locate Stage 1 and Stage 2 Compressor contactors. See Figure 1.
3. Attach one (1) supplied Red wire to Terminal # 3 and one (1) supplied Black wire to Terminal # 1 of each current sensing board. Use wire ends with single ¼" spade terminals for this step.
4. With screws provided secure the two sensing boards below each compressor contactor using mounting holes provided. See Figure 1.

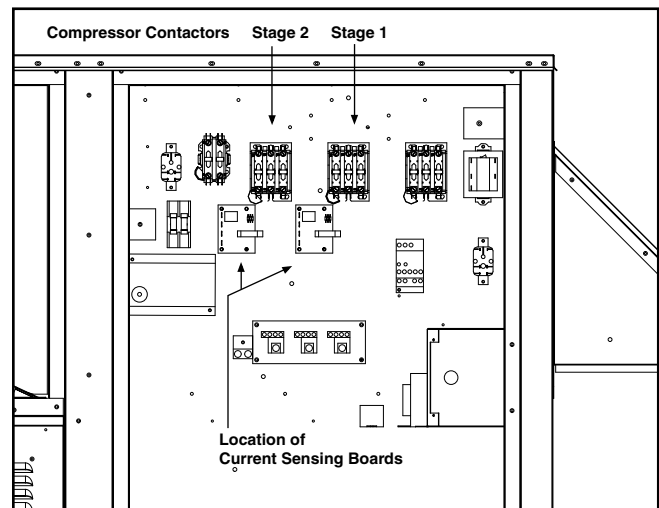


Figure 1.

SEE FIGURE 2 FOR REMAINING STEPS

5. Remove the Black/Red wire (Cooling Y1) from the 24V coil connection located at the top of Stage 1 compressor contactor and re-attach to Terminal # 2 on the Stage 1 sensing board.
6. Attach Red wire from Stage 1 sensing board Terminal # 3 back to compressor 24V contactor coil where Black/Red (Cooling Y1) wire was removed.
7. Attach remaining Black wire with piggyback terminal from sensing board Terminal # 1 to the other side of the 24V compressor contactor coil. (24V Com)
8. Repeat Steps 5, 6, and 7 for Stage 2 compressor circuit. (Cooling Y2)
9. Remove the "L1" line voltage wire to Stage 1 compressor (Black/White) from the unit terminal board, carefully pass wire through Stage1 lockout board sensing loop, and reconnect back to the unit terminal board.
10. Repeat this for Stage 2 "L1" line voltage wire to Stage 2 compressor.
11. Restore all Electrical power back to unit and check for proper unit operation.

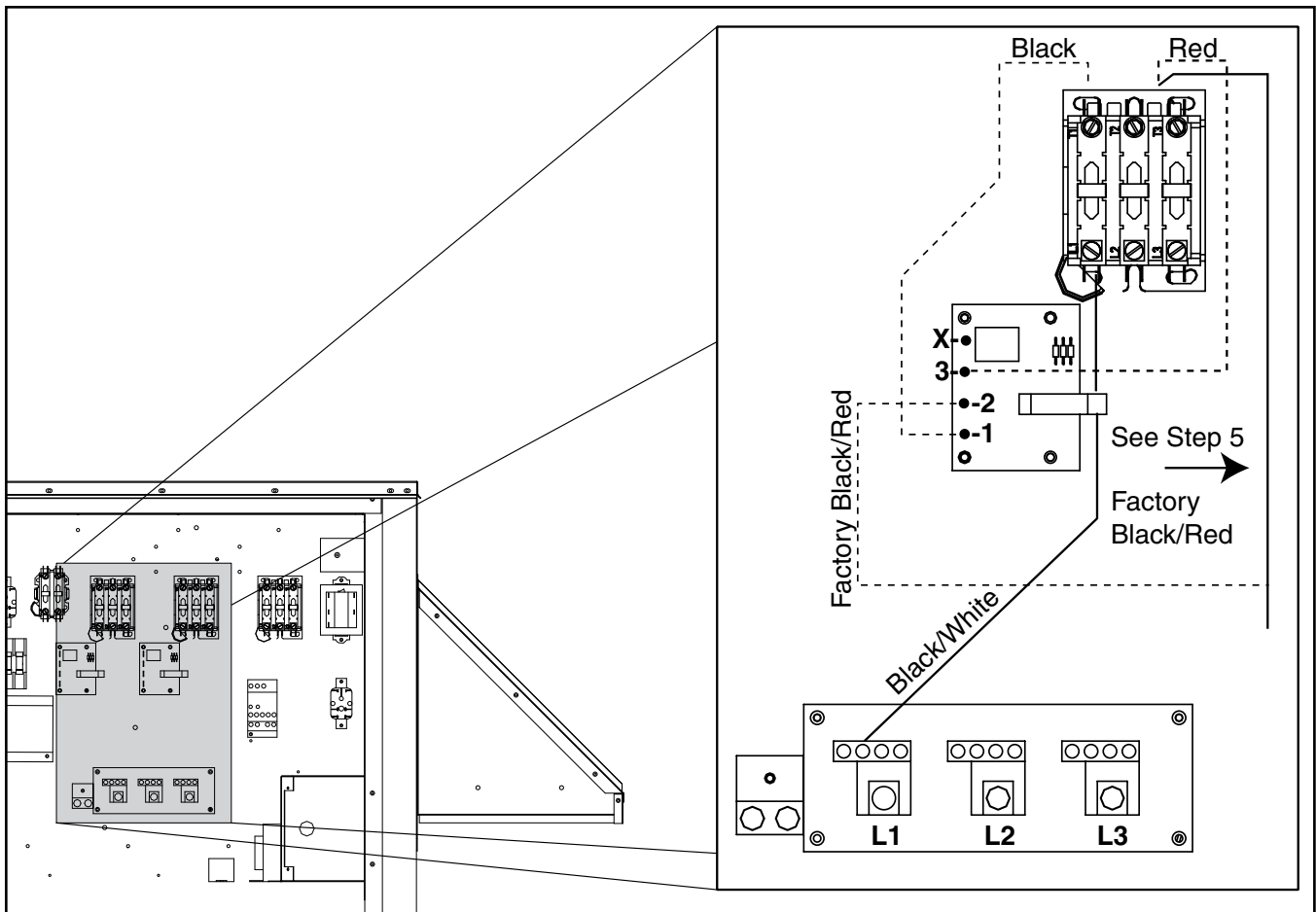


Figure 2.

INSTALLER: PLEASE LEAVE THESE INSTALLATION INSTRUCTIONS WITH THE OWNER

