

INSTALLATION INSTRUCTIONS

LOW AMBIENT CONTROL KIT

15 & 20 TON R410A HEAT PUMP

RXRZ-A05



Recognize this symbol as an indication of Important Safety Information!

▲ WARNING

THESE INSTRUCTIONS ARE INTENDED AS AN AID TO QUALIFIED SERVICE PERSONNEL FOR PROPER INSTALLATION, ADJUSTMENT AND OPERATION OF THIS KIT. READ THESE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING INSTALLATION, ADJUSTMENT, OR OPERATION. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN IMPROPER INSTALLATION, ADJUSTMENT, SERVICE OR MAINTENANCE, POSSIBLY RESULTING IN FIRE, ELECTRICAL SHOCK, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

Parts List

Parts Description	Parts Number	Quantity
Low Ambient Control	AS-103034-03	2
Accessory Relay	42-19736-05	1
Relay Mounting Screws	63-22153-01	2
Relay Coil Connection Wire (blue)	AS-50204-32-E7	1
Relay Coil Connection Wire (brown)	AS-50207-13-DE	1
Relay Coil Connection Wire (black)	AS-50230-13-DD	4
Wire Tie	64-17606-01	4
Wire Nuts	45-102982-01	2
Installation Instructions	92-22046-15	1

▲ WARNING

BEFORE BEGINNING ANY MODIFICATION, BE SURE MAIN DISCONNECT SWITCH IS IN THE "OFF" POSITION. FAILURE TO DO SO CAN CAUSE ELECTRICAL SHOCK RESULTING IN PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. TAG DISCONNECT WITH A SUITABLE WARNING LABEL.

TOOLS/SUPPLIES REQUIRED

- A. ¼" flat blade screwdriver (to open control box door)
- B. 1/4" nut driver.
- C. 5/16" nut driver.
- D. 7/16" open end wrench.
- E. 9/16" open end wrench.
- F. Scratch Awl.
- G. Box Cutter (to open packaging).

1. Low Ambient Switch Installation

- a. Shut off power to unit (see warning above).
- b. Remove compressor access panel.
- c. Remove brass cap from Schrader valve located next to the high pressure control (see illustration).
- d. Quickly screw Low Ambient Control onto Schrader valve. Use 9/16" open end wrench on Low Ambient Control and torque to 8-10 ft/lbs with 7/16" open end backup wrench

on the Schrader valve. **CAUTION: If a backup wrench is not used serious damage to the equipment or personal injury may occur. Do not over tighten connection.**

- e. Repeat b. through d. for second system.

2. Switch Electrical Connections

- a. Locate the black wires #189, 190, 187, 188 in the outdoor section, near the compressors, and remove and save the existing wire nuts.
- b. Connect the LAC on system 1 to wires 189 and 190 using the previously removed wire nuts. Connect the LAC on system 2 to wires 187 and 188 using the supplied wire nuts.
- c. Refer to the unit wiring diagram to verify proper connections.
- d. Replace compressor access panels. Use scratch awl to help align panels.

3. Relay Installation

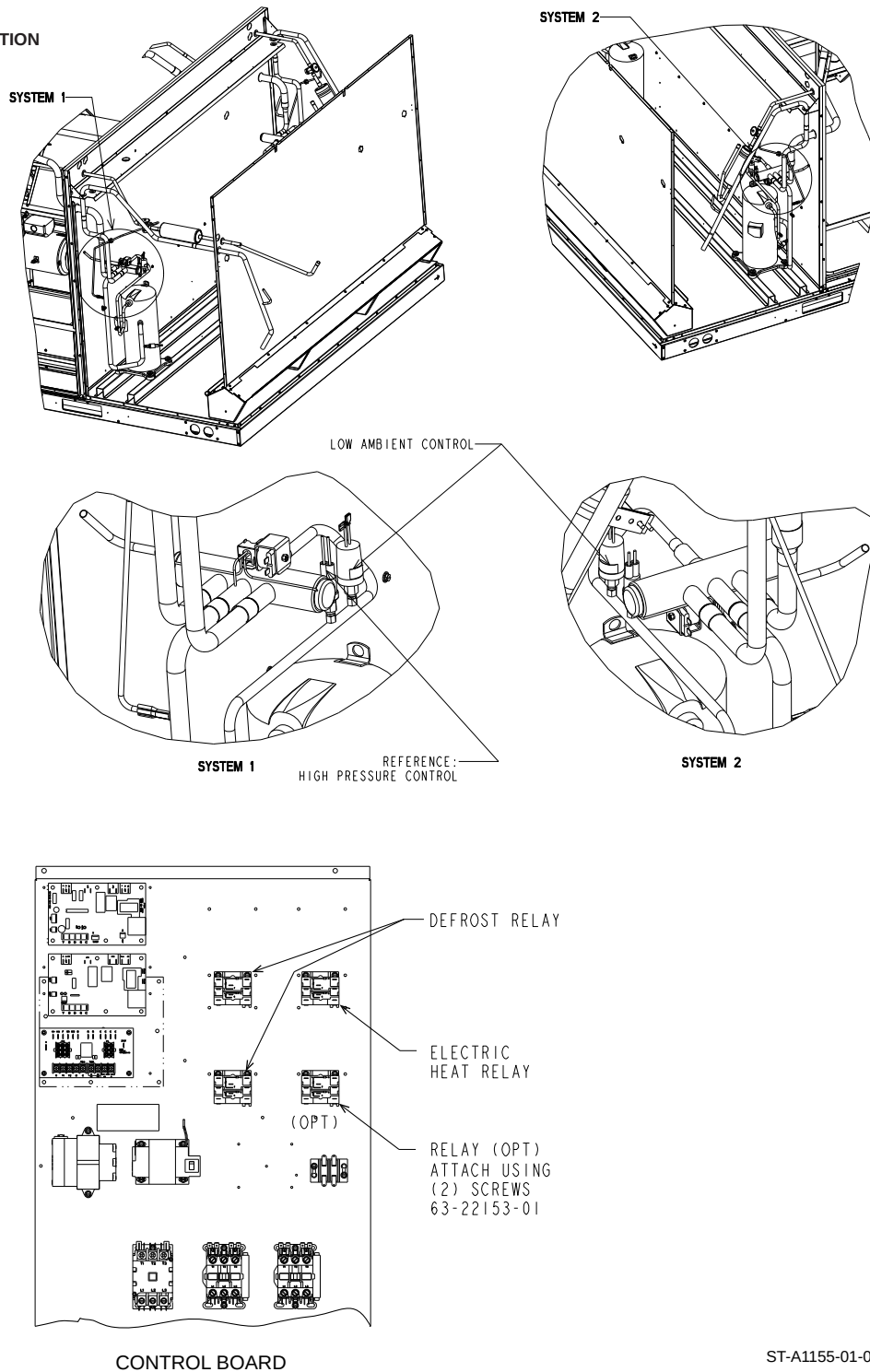
- a. Open control section door.
- b. Remove control panel cover.
- c. Mount Accessory Relay to control panel below electric heat relay with 2 screws provided. (See illustration.)



4. Relay Electrical Connections

- a. Attach one black wire (AS-50230-13-DD) to AR(1) and DR1(2).
- b. Attach one black wire (AS-50230-13-DD) to AR(4) and DR2(2).
- c. Attach one black wire (AS-50230-13-DD) to AR(3) and TB2(1).
- d. Attach one black wire (AS-50230-13-DD) to AR(6) and TB2(2).
- e. Attach Blue wire (AS-50204-32-E7) to AR coil (left terminal) and DFC2(B).
- f. Attach Brown wire (AS-50207-13-DE) to EHR coil (right terminal) and AR coil (right terminal).
- g. Refer to the wiring diagram (90-42517-34) to verify proper connections.
- h. Secure loose wires with wire ties.
- i. Replace control panel cover.
- j. Close control section door.
- k. Restore power to unit and check for proper operation.

FIGURE 1
LOW AMBIENT INSTALLATION



ST-A1155-01-01