# INSTALLATION INSTRUCTIONS
# LOW AMBIENT CONTROL KIT
# 7.5 - 10 TON PACKAGE HEAT PUMP
# RXRZ-A91

⚠ 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**

| Part Description | Part Number | Quantity |
|---|---|---|
| Low Ambient Control Assembly | AS-90788-02 | 2 |
| Adapter Tee | 83-21457-01 | 2 |
| Accessory Relay | 42-19736-05 | 1 |
| Control & Relay Mounting Screws | 63-22338-06 | 6 |
| Relay Coil Connection Wire (blue) | AS-50204-09-AE | 1 |
| Relay Coil Connection Wire (brown) | AS-50207-11-EE | 1 |
| Fan Motor Connection Wires (black) | AS-50201-09-AD | 4 |
| Terminal Block Connection Wires | AS-50239-31-EE | 4 |
| Wire Tie | 64-17606-01 | 8 |
| Wire Nuts | 45-10858-12 | 4 |
| Installation Instructions | 92-22046-10 | 1 |

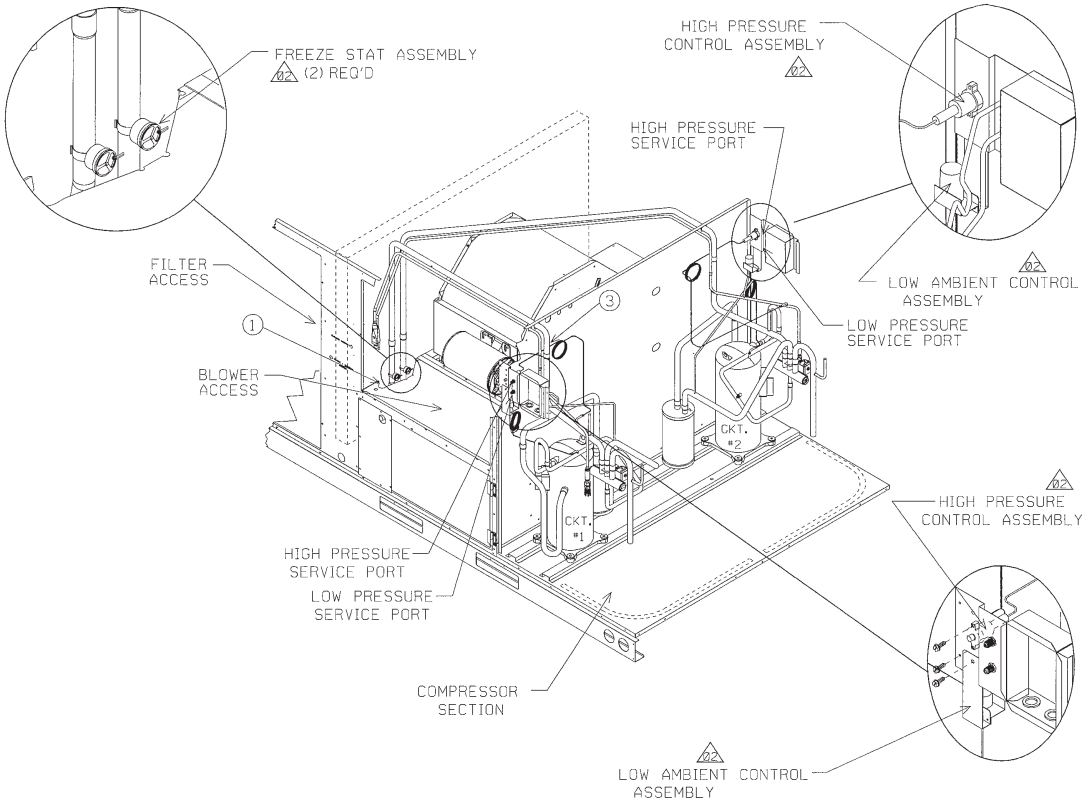
**⚠ WARNING**

**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.**

## I. SWITCH INSTALLATION PROCEDURE

IMPORTANT: When making flare connections, use a back-up wrench to avoid breaking the adapter tee or splitting the flare. Tighten the connection with a quarter turn torque.

1. Turn off power to unit.
2. Remove System 1 compressor access panel, see Illustration.
3. Attach the flare connection on one low-ambient control assembly to one adapter tee on the side without the valve core. Tighten the flare nut one-quarter turn, using a back-up wrench, after the flare contacts the tee. Use care to avoid damaging the switch capillary tube.
4. Mount the low-ambient control assembly to the the junction box support flange using the screw provided.
5. Remove the cap from the discharge line accessory port and attach to the fitting on the adapter tee equipped with the valve core. See Illustration.
6. Carefully unroll and route the switch capillary tube to the discharge line. Unroll only as much capillary tube as required. Ensure that the tube does not contact any other line or cabinet part.
7. Attach the valve-depressor side of the adapter tee to the discharge line accessory port. Tighten flare nut one-quarter turn, using a back-up wrench, after the tee flare contacts the port. See Illustration.
8. Use two of the wire ties provided to secure the unused coiled length of capillary tube. See Illustration.
9. Check for leaks at all flare connections using soap bubbles and/or an electronic leak detector.
10. Repeat steps 2 through 9 for System 2.




NOTES:

1. PORTION OF BLOWER DECK IS REMOVED TO AID IN VIEWING THE MOUNTING POSITION OF THE FREEZE STATS.
2. PLUGS AND WIRES OF THE FACTORY INSTALLED ACCESSORIES NOT SHOWN.
3. ALL CAPILLARY TUBES TO BE ROUTED SO AS NOT TO COME IN CONTACT WITH ANY FIXED SURFACE.
4. INSTALLATION IS EXACTLY THE SAME FOR THE FIELD INSTALLED ACCESSORIES EXCEPT FOR THE USE OF SCHRADER FITTINGS TO MAKE CONNECTION INSTEAD OF BRAZED FITTINGS.

ST-A0748-10

**FIGURE 1B. CONTROL LOCATION**

## II. ELECTRICAL CONNECTION PROCEDURE

1. Refer to unit wiring diagram for proper electrical connections.
2. Install Accessory Relay in control box using screws provided.
3. Attach relay coil wires, fan motor wires, and terminal block wiring to relay.
4. Connect brown wire from Accessory Relay coil to TB1.
5. Connect blue wire from Accessory Relay coil to other wires at Wire Nut #5.
6. Remove Wire Nut #3 connecting wire #13 from DR1(9) to OFM1 (wire #42). Using wire nuts, reconnect wire #13 to wire #13A on AR1(1) and wire #42 to wire #42A on AR1(3).
7. Connect remaining long black wires from AR1(1) to TB4(5) and AR1(3) to TB4(6).
8. Remove Wire Nut #4 connecting wire #25 from DR2(9) to OFM2 (wire #43). Using wire nuts, reconnect wire #25 to wire #25A on AR1(4) and wire #43 to wire #43A on AR1(6).
9. Connect remaining long black wires from AR1(4) to TB4(7) and AR1(6) to TB4(8).
10. Connect leads from System 1 Low-Ambient control to wires labeled LAC1A and LAC1B in System 1 junction box using wire nuts provided.
11. Connect leads from System 2 Low-Ambient control to wires labeled LAC2A and LAC2B in System 2 junction box using wire nuts provided.
12. Replace System 1 & System 2 compressor access panels.
13. Restore power to unit and check for proper operation.