INSTALLATION INSTRUCTIONS
LOW PRESSURE CONTROL PACKAGE
1½ THROUGH 6 TON UNITS

Installation instructions are different for the various models covered. Read the appropriate section for the model being worked on.

SECTION I
Remote Condensing Units

SECTION II
Self-Contained Air Conditioners And Rooftop Units (sizes 1½ through 6 tons)

⚠ Recognize this symbol as an indication of Important Safety Information!

⚠ WARNING

THIS ACCESSORY IS INTENDED TO BE INSTALLED BY A QUALIFIED, LICENSED SERVICE PERSON. TO AVOID UNSATISFACTORY OPERATION OR DAMAGE TO THE PRODUCT AND POSSIBLE UNSAFE CONDITIONS, INCLUDING ELECTRICAL SHOCK, REFRIGERANT LEAKAGE AND FIRE RESULTING IN PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. THE INSTALLATION INSTRUCTIONS PROVIDED WITH THIS ACCESSORY MUST BE STRICTLY FOLLOWED AND THE PARTS SUPPLIED USED WITHOUT SUBSTITUTION. DAMAGE TO THE PRODUCT RESULTING FROM NOT FOLLOWING THE INSTRUCTIONS OR USING UNAUTHORIZED PARTS MAY BE EXCLUDED FROM THE MANUFACTURER'S PRODUCT WARRANTY COVERAGE.

PARTS LIST		
Description	**Part Number**	**Qty.**
Low Pressure Control	47-21466-01	1
Adapter Tee	83-21457-01	1
Wire Nut	45-18058-01	2
Wire Tie	64-17606-01	3
Cover, Flag Terminal	45-21684-01	2
Instructions	92-22033-06	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.

SECTION I. Remote Condensing Units

1. INSTALLATION PROCEDURE

IMPORTANT: *When making flare connections, use a back-up wrench to avoid breaking connection or splitting flare.*

A. Remove front access panel to control box

B. Place the low pressure control (as shown in Figures 1A and 1B) on the suction line piping and fasten in place with two wire ties.

C. For models with quick connect fittings, insert control tubing with flare nut through low voltage wiring hole to outside of unit and securely connect to the adapter tee (supplied in package) male flare fitting that does not have a valve core. The low voltage wiring hole grommet will have to be removed and split. Place around tubing, then reinsert into low voltage wiring hole. Refer to Figure 1A.

For units with sweat fittings and with the pressure test ports inside the unit, refer to Figure 1B for making the proper tubing and tee connections.

D. Remove cap from the service port and place on the adapter tee end which has a valve core.

E. Securely connect flare nut on adapter tee to service fitting on quick connect fitting on suction line. Carefully bend control tubing to be free of contact with other items to prevent vibration damage.

F. Check all refrigerant connections for leaks and repair as necessary.

2. ELECTRICAL CONNECTION

NOTE: In some instances, it may be necessary to clip the quick connect terminals from wire leads and strip the insulation from the end of the leads to make the electrical connections. Wire nuts have been provided for this purpose.

A. Locate unit contactor coil terminals on contactor in unit control box. For most units, yellow and blue leads are pigtailed to the outside of the control box and connection may be made to the yellow lead.

B. Make electrical connections as follows (refer to wiring diagram with unit):

1. Disconnect lead from contactor coil terminal. Connect one pressure control lead to coil terminal and the other control lead to the lead disconnected from the contactor coil terminal. Where flag terminal covers are used on contactor coil connections, two covers are supplied in this package.
2. An alternate method is to separate the low voltage yellow wire pigtailed connection from the control box. Attach one lead from the pressure control to the yellow lead entering the control box. Connect the other lead from the pressure control to the remaining lead. Refer to Figures 1A and 1B. Use wire nuts supplied for connections.
3. Secure the wires to a wire bundle leading to the control box with a wire tie supplied in package.

C. Reinstall access panel.

D. Restore power to the unit and check unit operation.

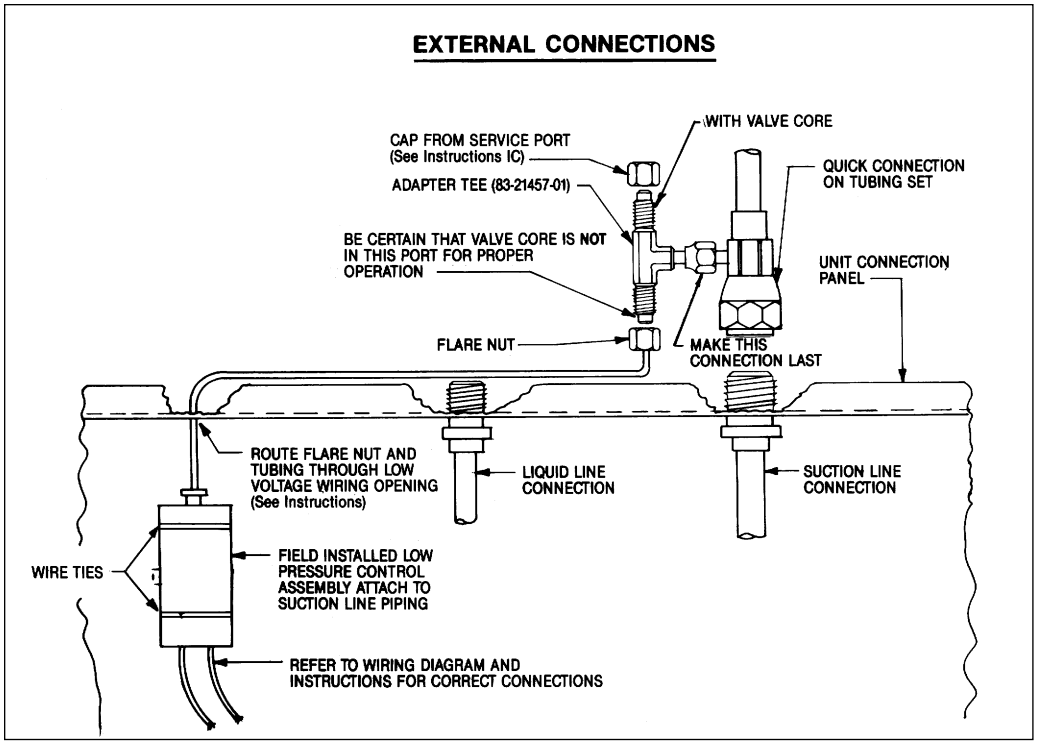


FIGURE - 1A REMOTE CONDENSING UNITS WITH QUICK CONNECT FITTINGS

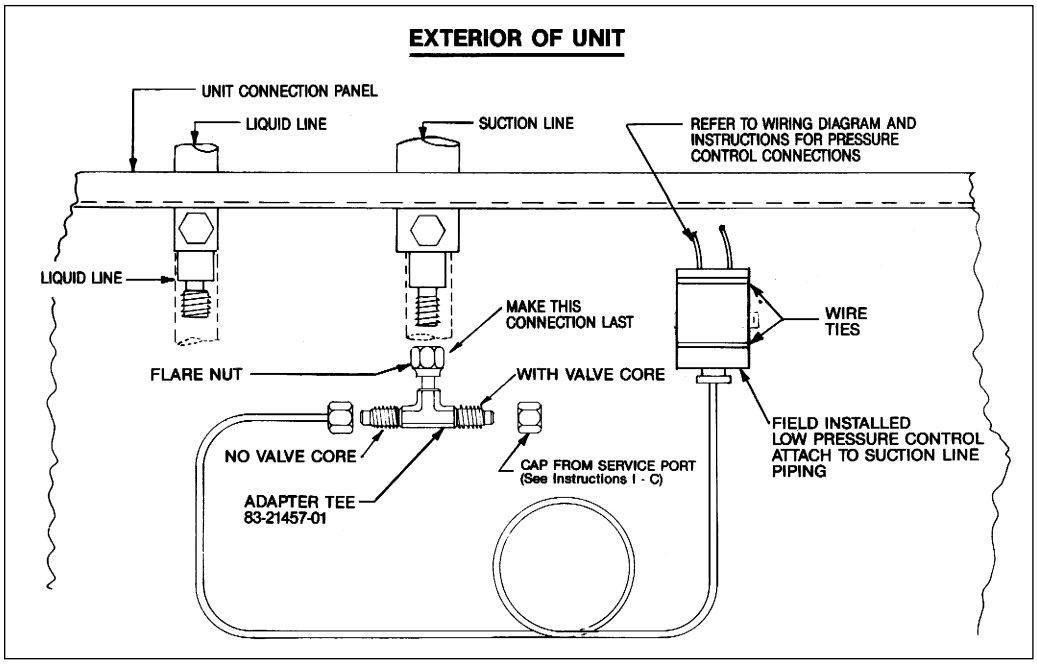
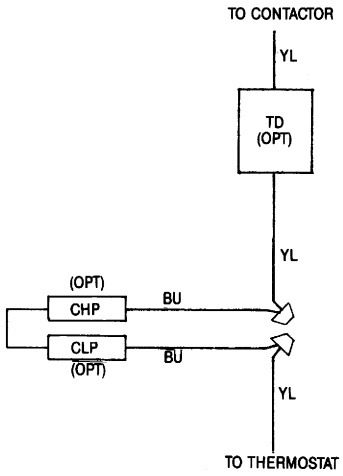


FIGURE - 1B REMOTE CONDENSING UNITS WITH SWEAT FITTINGS

WIRING DIAGRAM



COMPONENT CODE
CHP = HIGH PRESSURE CONTROL
CLP = LOW PRESSURE CONTROL
TD = TIME DELAY CONTROL

WIRE COLOR CODE
BU = BLUE
YL = YELLOW

SECTION II. Self-Contained Air Conditioners And Rooftop Units

⚠ 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 SEVERE PERSONAL INJURY OR DEATH.

1. INSTALLATION PROCEDURE

IMPORTANT: *When making flare connections, use a back-up wrench to avoid breaking connection or splitting flare.*

A. Remove access panel to control box. On rooftop units lift top condenser fan assembly from condenser section and place aside to allow working space. On commercial rooftops remove compressor access panel.

B. Refer to Figure 2 for location of low pressure control.

1. Secure low pressure control to the suction line piping by the use of two wire ties.
2. Connect the low pressure capillary tube to the side of the tee that does not have the valve core installed. The 1/4″ flare nut mounted on the capillary tube is for this connection. Remove cap from service port and place on the adapter tee end which has a valve core.
3. Connect the adapter tee to the suction or low pressure service port located on a piping stub. Refer to Figure 2.

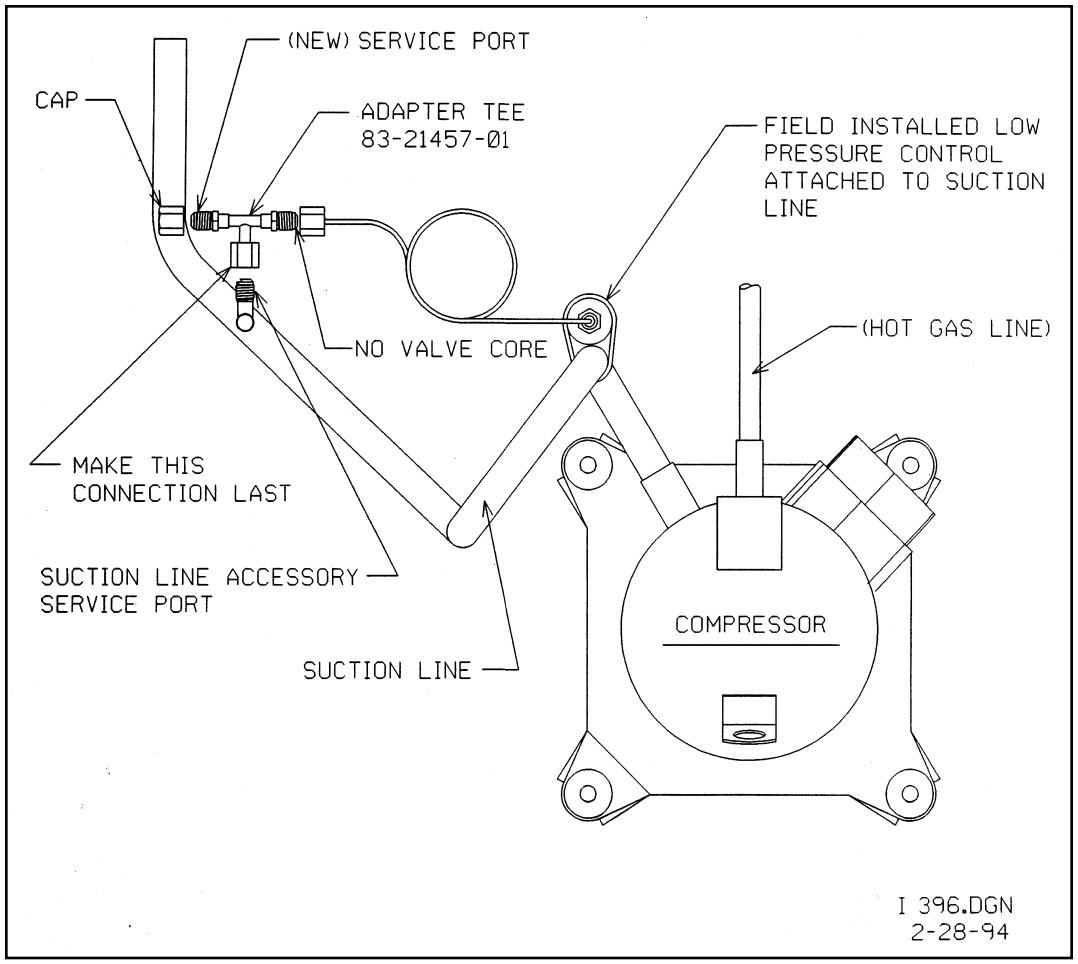
2. ELECTRICAL CONNECTION

A. Tie into the yellow lead from control box as shown.

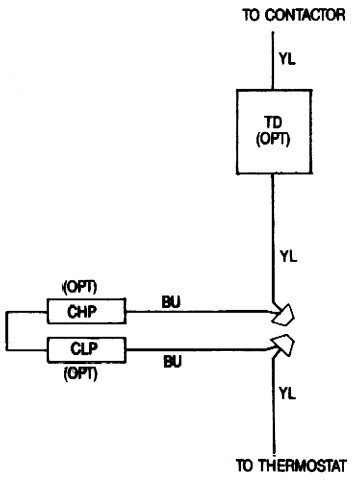
B. Please refer to the wiring diagram with the unit and to Figure 2 for the proper connections.

C. Reinstall control box panel and condenser fan assembly.

D. Restore power to the unit and check unit operation.



WIRING DIAGRAM



COMPONENT CODE
CHP = HIGH PRESSURE CONTROL
CLP = LOW PRESSURE CONTROL
TD = TIME DELAY CONTROL

WIRE COLOR CODE
BU = BLUE
YL = YELLOW

FIGURE 2. LOW PRESSURE CONTROL INSTALLATION, SELF-CONTAINED AIR CONDITIONERS AND ROOFTOP UNITS

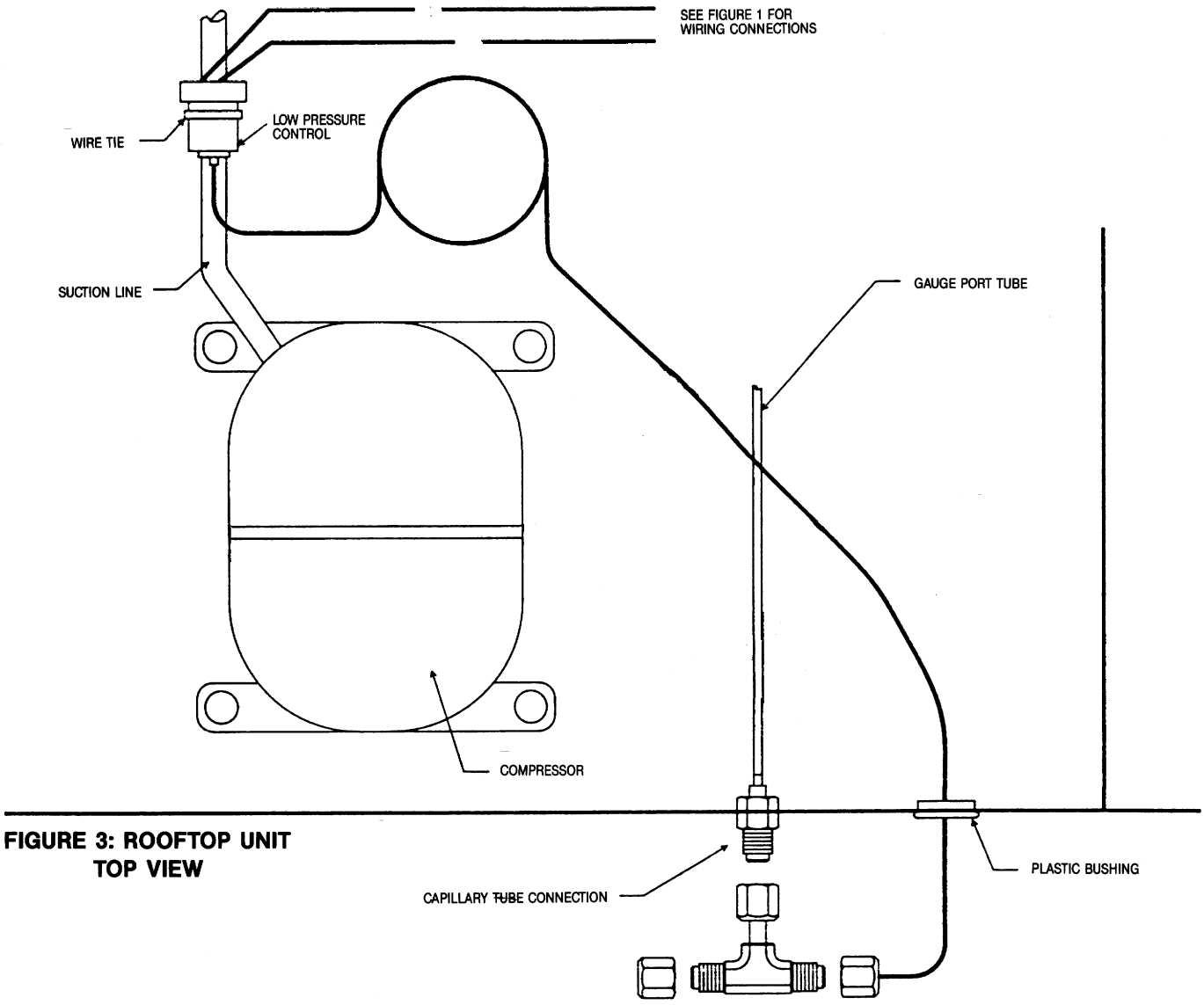


FIGURE 3: ROOFTOP UNIT TOP VIEW