INSTALLATION INSTRUCTIONS
TIME DELAY CONTROL PACKAGE

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

SECTION I
Remote Condensers
Self-Contained Air Conditioners
Remote Heat Pumps
Self-Contained Heat Pump

SECTION II
Residential Rooftop Unit
Light Commercial Unit

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

⚠ WARNING

THIS ACCESSORY IS 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	Parts Number	Qty.
Time Delay Control	42-20593-05	1
Cover, Flag Terminal	45-19245-01	2
Screw (#6 x 1/2)	63-19228-08	1
"Y" Connector	45-17007-01	1
Wire Assembly (9" Brown)	AS-50207-15-BB	1
Wire Assembly (9" Yellow)	AS0-50205-15-BB	1
Instructions	92-22039-06	1

SECTION I. All Models **Except** Rooftop and Light Commercial

⚠ 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 PERSONAL INJURY OR DEATH. TAG DISCONNECT WITH A SUITABLE WARNING LABEL.

1. INSTALLATION PROCEDURE

A. Remove access panel to control box.

B. Refer to control box drawing for mounting location of the time delay control (Figure 1).

2. ELECTRICAL CONNECTIONS

A. Please refer to the unit diagram and to Figures 2A and 2B for making the electrical connections.

B. Locate contactor coil terminals on contactor in unit control box.

C. If terminal covers are used on the low voltage coil terminals, place the covers supplied in the kit on one flag terminal of each of the two wire leads supplied in the kit.

D. Remove the two wire connections from the wire low voltage contactor coil and place them on terminals R1 and R2 on the time delay control.

E. Connect the yellow and brown leads supplied in the control kit to the Y1 and Y2 terminals on the time delay control and on the contactor coil terminals.

F. Replace access panel.

G. Restore power to the unit and check for operation. Each time that the thermostat circuit is interrupted there will be approximately a 5 minute delay before the contactor will restart the compressor system.

SECTION II: Residential Rooftop and Light Commercial

⚠ 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 PERSONAL INJURY OR DEATH. TAG DISCONNECT WITH A SUITABLE WARNING LABEL.

1. INSTALLATION PROCEDURE

A. Please refer to wiring diagrams 4A and 4B for making the electrical connections.

B. Locate contactor coil terminals on contactor in unit control box.

C. Disconnect the yellow lead from contactor coil and connect to the R1 terminal of the time delay control.

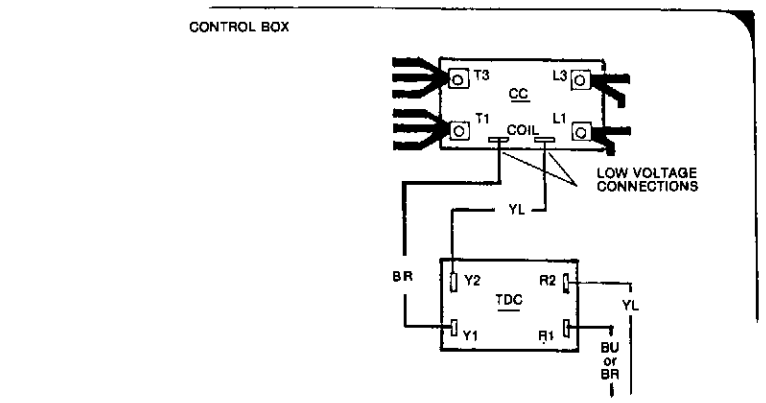


FIGURE - 2A TIME DELAY CONTROL INSTALLATION

COMPONENT CODE
CC = CONTACTOR
CHP = HIGH PRESSURE CONTROL
CLP = LOW PRESSURE CONTROL
TDC = TIME DELAY CONTROL

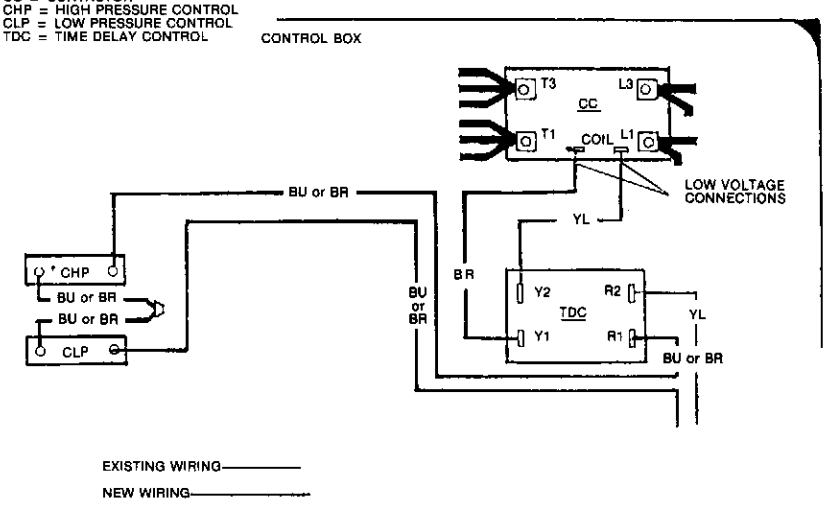
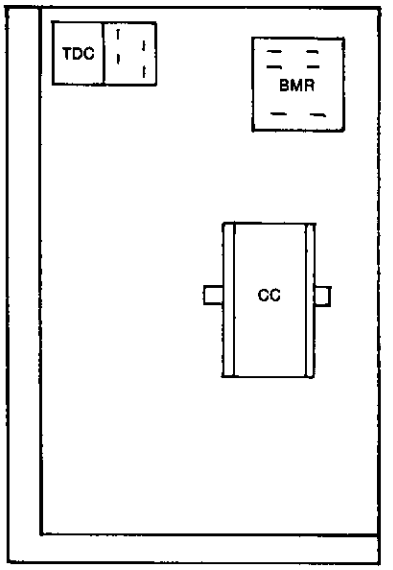
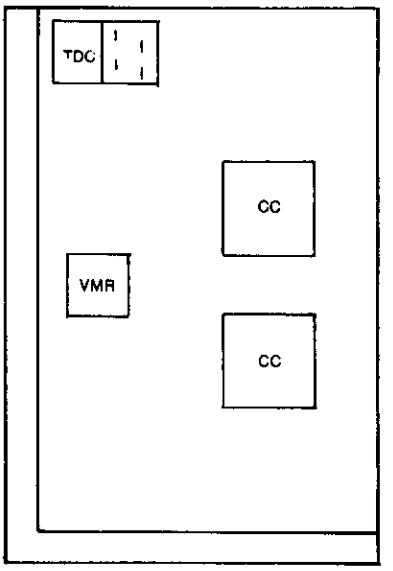


FIGURE - 2B HIGH AND LOW PRESSURE CONTROLS WIRED TO TIME DELAY CONTROL

FIGURE - 3
MOUNTING LOCATION - ROOFTOP



COMPONENT CODE
TDC = TIME DELAY CONTROL
BMR = BLOWER MOTOR RELAY
CC = CONTACTOR



COMPONENT CODE
TDC = TIME DELAY CONTROL
VMR = VENT MOTOR RELAY
CC = CONTACTOR

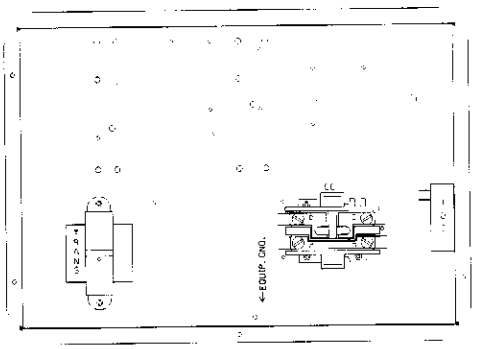
D. Disconnect the two blue or brown leads from the contactor coil. Using the "Y" terminal connector from the kit, connect both blue or brown leads to the Y1 and Y2 terminals on the time delay control and on the contactor coil terminals.

E. Connect the yellow and brown leads from the kit to the Y1 and Y2 terminals on the time delay control and on the contactor coil terminals.

F. Replace the access panel on the control box.

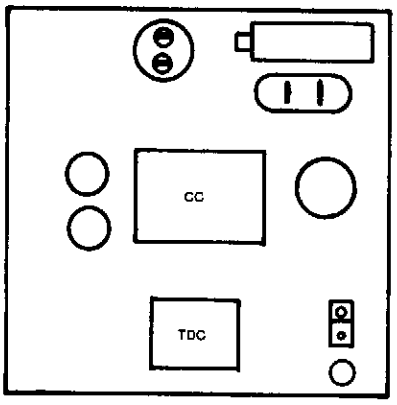
G. Restore power to the unit and check for operation. Each time that the thermostat circuit is interrupted there will be approximately a 5 minute delay before the contactor will restart the compressor system.

14 x 10 LIGHT COMMERCIAL CONTROL BOX



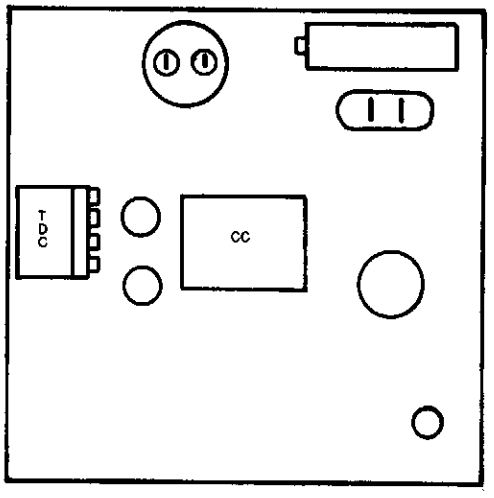
COMPONENT CODE
TDC = TIME DELAY CONTROL
TRANS = TRANSFORMER
CC = CONTACTOR

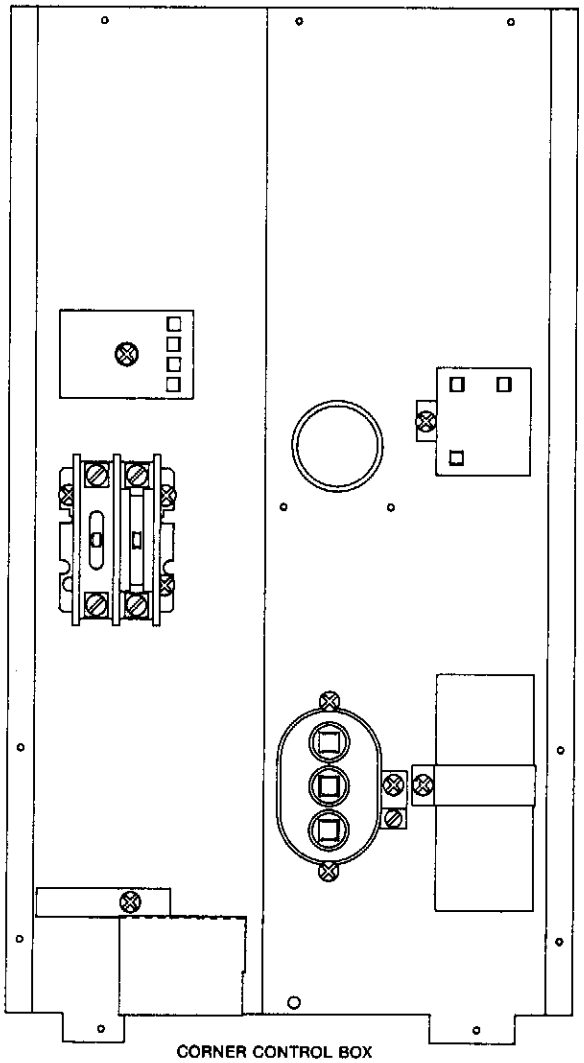
8 x 8 CONTROL BOX



COMPONENT CODE
CC = CONTACTOR
TDC = TIME DELAY CONTROL

10 x 10 CONTROL BOX





CORNER CONTROL BOX

14 x 10 CONTROL BOX

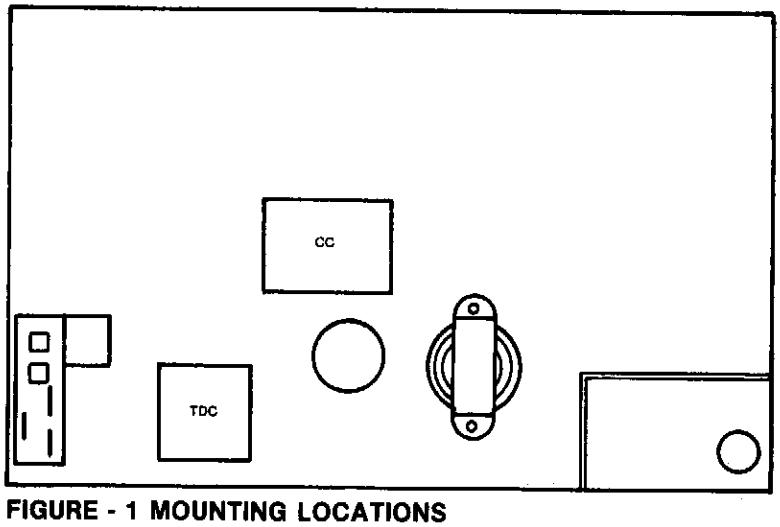
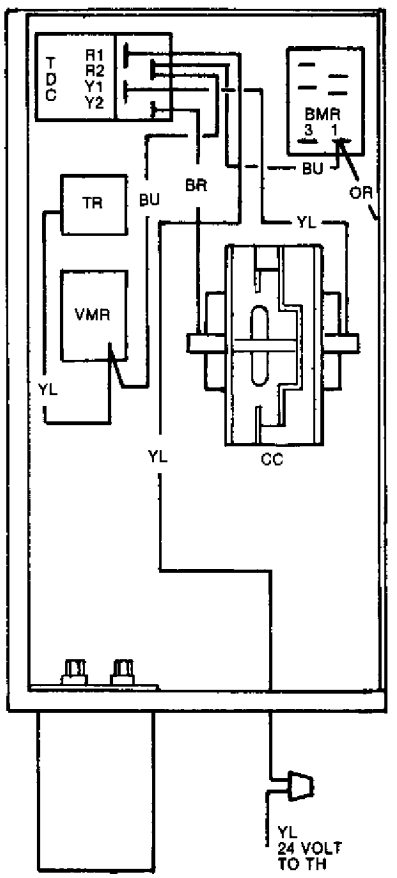
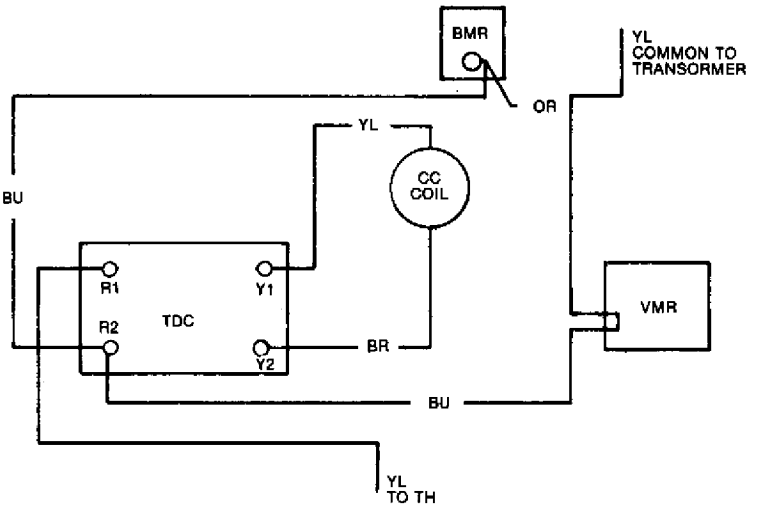


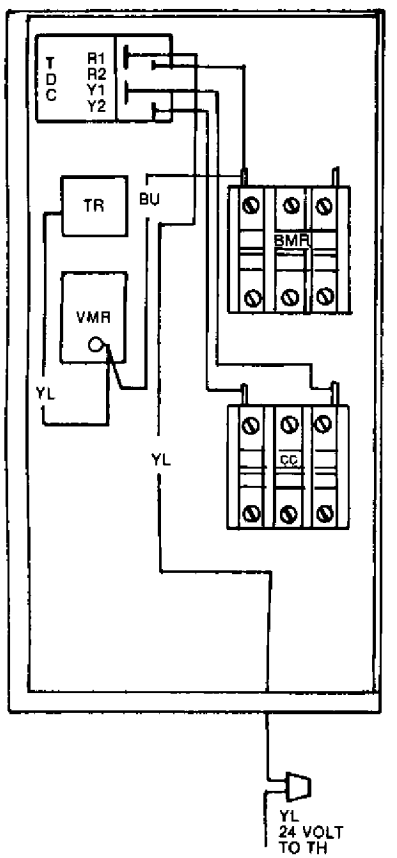
FIGURE - 1 MOUNTING LOCATIONS

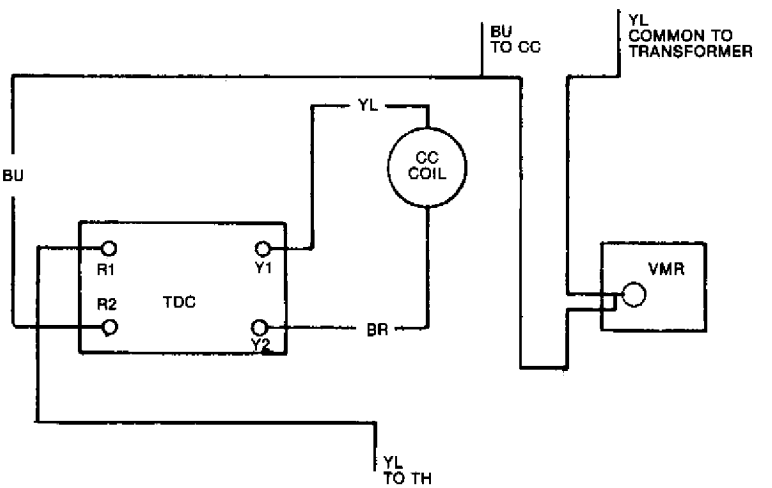




COMPONENT CODE
TDC = TIME DELAY CONTROL
BMR = BLOWER MOTOR RELAY
CC = CONTACTOR
VMR = VENT MOTOR RELAY
TR = TRANSFORMER
CL = LIMIT CONTROL
VG = GAS VALVE

FIGURE - 4A ROOFTOP, 208/230V SINGLE PHASE SYSTEM





COMPONENT CODE
TDC = TIME DELAY CONTROL
BMR = BLOWER MOTOR CONTACTOR
CC = COMPRESSOR CONTACTOR
VMR = VENT MOTOR RELAY
TR = TRANSFORMER

FIGURE - 4B ROOFTOP, 460V THREE PHASE SYSTEM