which has two heat pump outputs for heating (Y and Y2) and a "Y2" demand is present during the defrost cycle, the compressor and fan will run on high speed during the defrost cycle. **This is the only occurrence when a "Y2" demand in the heating mode will have an affect on the RTG unit.** When the defrost cycle is terminated, the RTG unit will switch back to low speed compressor and fan operation.

3.3 When the temperature of the outdoor coil rises high enough to causes the defrost thermostat to open, the defrost cycle will be terminated. If the defrost thermostat is still closed at the end of the programmed 10 minute override time, the defrost board will automatically terminate the defrost cycle.

3.4 When the defrost cycle is terminated, the defrost board will de-energize the reversing valve, turn off the furnace and turn on the condenser fan. The unit will now be back in a normal heating mode with a "Y" demand for heating. The defrost board resets the compressor run timer to 0 and starts accumulating compressor run time from this point. This cycle will repeat itself every 30, 60, or 90 minutes of compressor run time depending on the user selected time as long as the unit is in the heating mode.

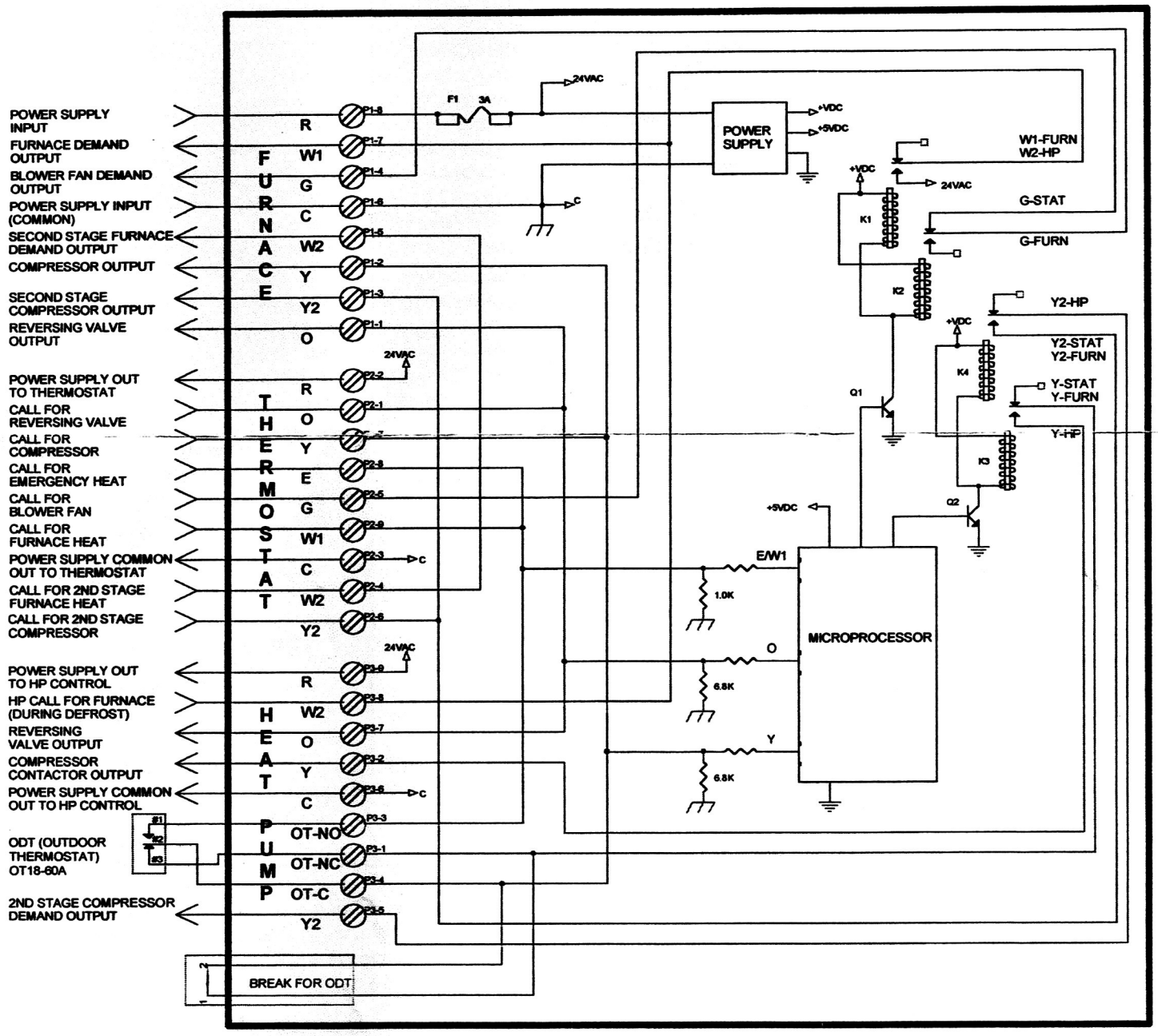
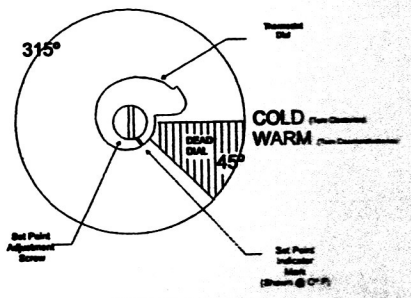


FIGURE 1

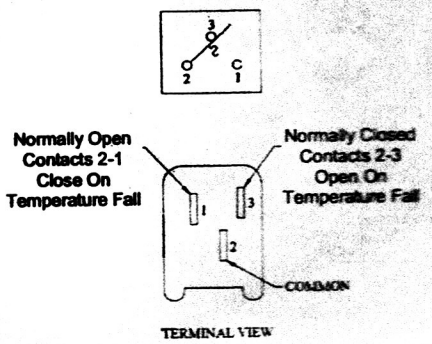
INSTALLATION

The outdoor thermostat is designed to be installed in the space allocated in the control box of the Amana® and Goodman cooling and heat pump units.

OT18-60



THERMOSTAT CAM
Figure 1



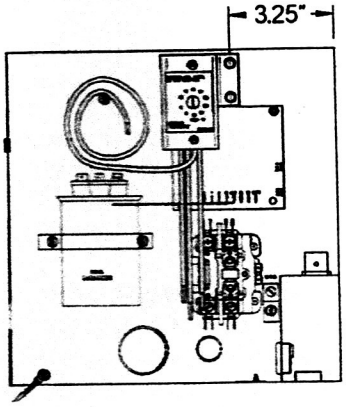
RANCO THERMOSTAT - RANCO PART # A22-1260-00
GOODMAN PART # B13708-67
Figure 2

⚠ WARNING

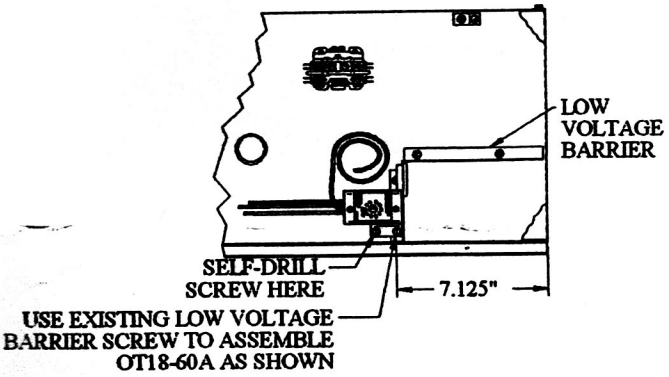
TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT ELECTRICAL POWER BEFORE INSTALLING THE OUTDOOR THERMOSTAT.

1. Remove the sheet metal screws securing the unit control box cover.
2. Install the OT18-60A Outside Thermostat using the supplied bracket and self-drilling screws (see Figures 3 through 9.). **NOTE:** Early Amana® and Goodman split, packaged cooling and heat pump units, refer to Figures 3 through 6. AS*, GS* and SS* split cooling and heat pump units, refer to Figures 7 and 8. GP* packaged cooling and heat pump units, refer to Figure 9.)
3. Wire the thermostat per Figures 10, 11, 12, 13, 14, and 15.
4. Route the capillary away from live terminals to prevent electrical shorts.

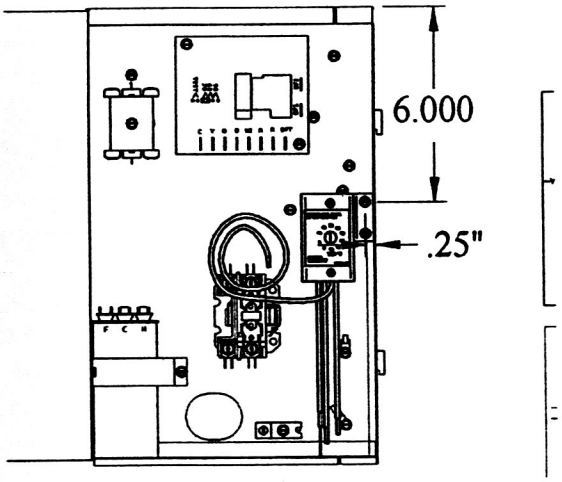
   NOTE: Outdoor Thermostat copper capillary will remain inside of the control box on early Amana® and Goodman models. On AS*, GS*, GP* and SS* models, the capillary will extend outside the control box.
5. Set installed thermostat(s) to the proper outdoor temperature. Insert a screwdriver in slot of thermostat dial (Figure 1). Turn set point indicator as shown in figure to desired temperature setting on label (counterclockwise for WARM, clockwise for COLD).
6. Reinstall the control box cover.



GOODMAN
SPLIT SYSTEM HEAT PUMP
Figure 3



GOODMAN
PACKAGE SYSTEM COOLING
AND HEAT PUMP
Figure 4



AMANA® BRAND
REMOTE HEAT PUMP
Figure 5