

# REPAIR PART KIT INSTALLATION INSTRUCTIONS

## REPLACEMENT DEMAND DEFROST CONTROL BOARD – S1-33101975102 FOR USE WITH MODELS: 12, 13 & 14 SEER HEAT PUMPS

### INSTALLATION

1. Power off unit totally - 240V & 24V.
2. Carefully record positions and colors of wiring removed.
3. Remove old defrost circuit board.
4. Install replacement circuit board - utilizing same placement, mounting & screws.
5. Refer to unit Installation Manual or Table 1 below - and set the Demand Defrost Curve Selection Jumper to the proper position. For the new jumper setting to take effect - all 24V power to the board must be removed and reapplied.
6. Complete the installation and power up the unit, re-applying both 240V & 24V.

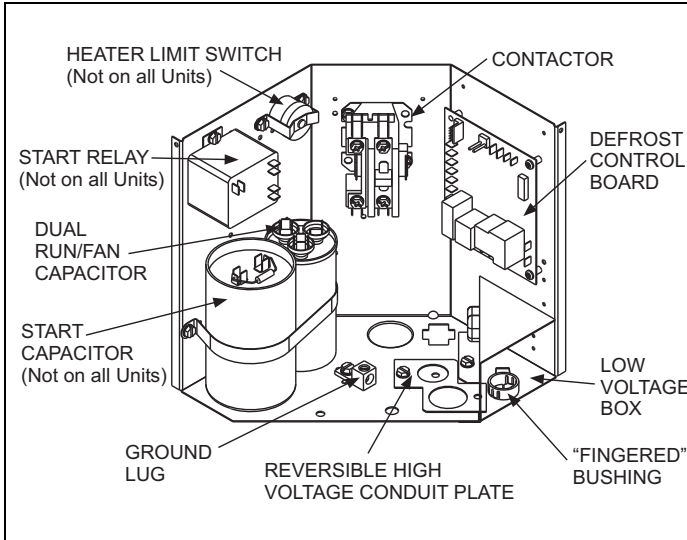


FIGURE 1: Outdoor Unit Control Box

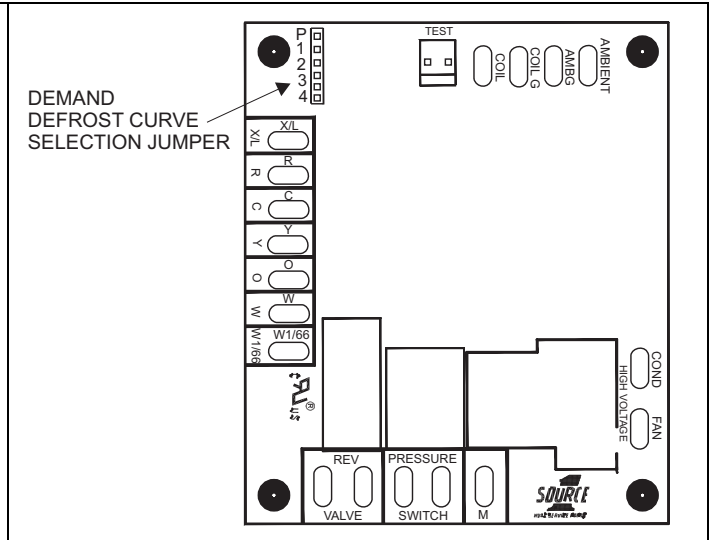


FIGURE 2: Demand Defrost Control Module

### DEFROST CURVE SELECTION

When the control board is replaced, the jumper **MUST** be placed in a numbered position. Select the proper jumper position from Table 1. **If the jumper is missing or in the P position, the replacement control will not energize the compressor.**

When the jumper position is changed, the control will not act upon the jumper changes until the thermostat calls are de-energized or power (24 VAC) to the control is cycled.

The control will display the active defrost curve using the X/L terminal when the heat pump is operating in a defrost cycle that has been forced using the TEST inputs. For instance, the X/L output will be energized with two flashes when defrost curve 2 is active. The control only reads the jumper input when the Y and W thermostat inputs are de-energized.

### COMPRESSOR DELAY

When Defrost Jumper Position #2 is selected the compressor is shut down for 30 seconds entering and exiting defrost mode. This delay is present in normal operation but is not present when the TEST pins are shorted to force a defrost cycle. Position #1 is recommended for reciprocating compressors, and Position #2 is recommended for scroll compressors.

TABLE 1: Defrost Initiate Curves

Defrost Curve Selection Jumper Position	1	2	3	4
All Other Models	YHJR, THJR, THRD, GHRD	YHJD, YHJF, THJD, THJF, CHJD, CHJF, LHJD, LHJF, THGD, GHGD	None	None