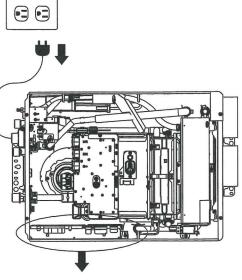
Circuit Board Replacement Procedure

When swapping in a new circuit board, the new circuit board needs to be programmed

Failure to successfully program the circuit board will result in a 73 error code. Typically this programming can be done with a data transfer from the old circuit board to the new circuit board. Even a damaged circuit board can usually transfer data properly.

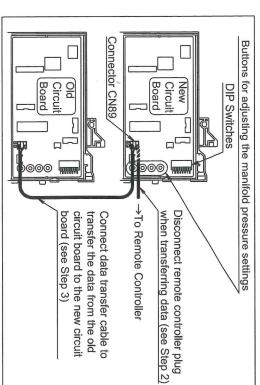
Only if the data transfer is unsuccessful, then you should follow the procedure for manual programming on the reverse side of this page Always attempt the data transfer first, and if unsuccessful, retry the data transfer procedure.

__ Data Transfer Procedure

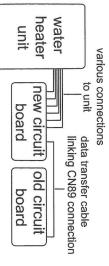


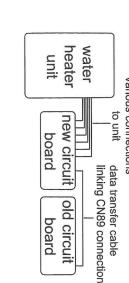
- 1. Make sure the remote controller is off OFF and wait for 10 seconds. completely blank), If it is ON, turn it
- N ...then disconnect electrical power.
- ω Remove old circuit board out of the unit to the new circuit board. and transfer all electrical connections

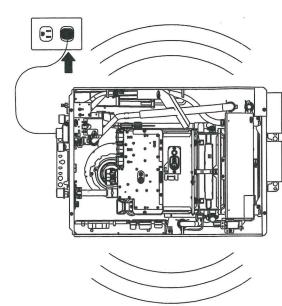
should be left unplugged. except connector CN89 which



(for illustration only)







- 4. Use the blue and white data transfer cable supplied with the new circuit board to connect the CN89 connection from the old circuit board to the new one
- 5. Connect power and wait about 30 seconds to a minute. The unit will signal a successful data transfer by spinning the fan and opening and closing the gas valve for about 3 minutes.

the unit, disconnect the data transfer cable and reconnect the original CN89 connector. If you get a successful data transfer: disconnect electrical power to

The circuit board can now be mounted back into the unit.

Note: (If you disconnected any wires to pull out the circuit board make sure to reconnect all wires.)

Manifold pressures should be checked with a digital manometer and

adjusted if necessary. Refer to the "Setting list for MW settings and Gas manifold pressures" at reverse side.

If you fail to refer to the reverse get a successful data transfer, side for Manual Programming.

5 DIP Switch Settings

*Disconnect the electrical power to the unit before adjusting the DIP Switches. DIP Switch Settings are set to the same as the old circuit board.

The following settings can be adjusted using the DIP Switches.

1. By setting DIP Switches 1 and 2, the unit can be programmed to different default temperatures if the remote controller is removed

> Dip Switches Location of

- 5 (Direct Vent model; DV model) By setting DIP Switch 3, the intake air supply type can be set to direct vent(DV) or non-direct vent(SV).
- ω. 4. By setting DIP Switches 5 and 6, adjustments can be made for high elevation installations. By setting DIP Switches 7 and 8, adjustments can be made for extended vent lengths installations Refer to the "Setting list for DIP Switches" table for details.

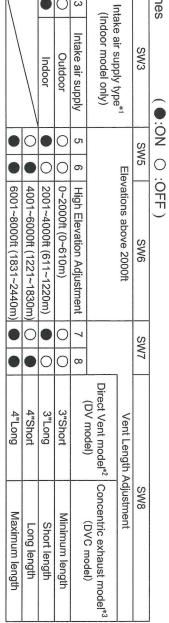
[DIP

Switches]

Setting list for DIP Switches

SW3

Default temperature setting



N OFF

120°F 125°F 130°F

₹

....en using an "SV conversion Kit".

98DV(GQ-C2857WS-FF US), NERC98DV(GQ-C2857WS-FF ET US)

Switches 7 and 8 need to be adjusted for extended exhaust vent ler

3DVC(GQ-2457WS-FFA US)

e unit is fixed with minimum ~~~.

Manual Programming

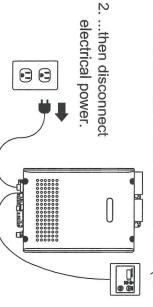
(only do this if the data transfer on the reverse side is unsuccessful)

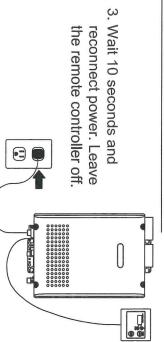
This procedure will require the remote controller.

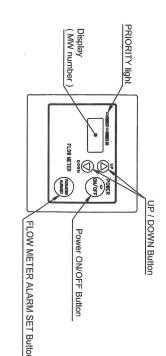
Make sure the circuit board is completely connected including connector CN89

If connected, in a multi unit configurations undo System Controller connections or Quick Connect Cord. After Manual Programing, make sure all connections are made before making the initial circuit board settings.

1. Make sure the remote controller is off (completely blank), If it is ON, turn it OFF and wait for 10 seconds.





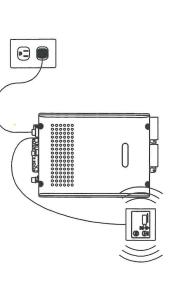


- 4. With the remote controller blank, hold the up button until the display blinks "99". You are now in the maintenance writer (MW) mode and can scroll through the MWs using the UP and DOWN buttons.
 For each MW the PRIORITY light will either be on, indicating that the MW is ON, or off, indicating the MW is OFF.
 You can toggle each MW to be ON or OFF using the FLOW METER ALARM SET buttor a) Turn MW "34" ON.
- b)Turn MWs "FC" and "FE" ON and press the UP or DOWN button. (Display blinks with "A0".)

gas type

Configure the remaining MWs according to the chart below based on your unit's model an

tting list for MW settings 83DVC 2-2457WS-FFA US) Q-C2857WS US) C98DV / NERC98DV Q-C2857WS-FF (ET) US) 57WS US) Model Natural
LP
Natural
LP
Natural
LP
Natural
LP
Natural
LP
Natural and Gas m Gas type



Setting list for Gas manifold pressures (NR83DVC)

Manifold Pressure (inch H2O) Cover off	inch H2O)	Cover off						
Vent length adjustment	DIP7=OFF	DIP7=OFF DIP8=OFF DIP7=ON DIP8=OFF DIP7=OFF DIP8=ON DIP7=ON DIP8=ON	DIP7=ON	DIP8=OFF	DIP7=OFF	DIP8=ON	DIP7=ON	DIP8=ON
vent tengui adjustitent	Minimu	Minimum length	Short length	length	Long length	ength	Maximum length	n length
Gas type	Max value	Max value Min value Max value Min value Max value Min value Max value Min value	Max value	Min value	Max value	Min value	Max value	Min value
Natural	2.75	0.90	2.70	0.85	2.70	0.85	2.65	0.80
LPG	3.85	1.25	3.80	1.25	3.75	1.20	3.70	1.20

Once complete, hold the UP and DOWN buttons together for five seconds until the remot controller starts beeping rapidly.

This is the signal that the changes to the MWs have been saved and the unit is ready for a check manifold pressures with a digital manometer and adjust if necessary.

6

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