Digital Controller Retrofitting Instructions
Omron E5GC to Novus N1020

This instructions are intended to help you retrofit a Quincy Lab Omron E5GC P.I.D. microprocessor (controller) to a Novus factory pre-programmed N1020 P.I.D. microprocessor.

We recommend following this step-by-step instruction to accomplish the retrofitting process.

⚠ **IMPORTANT**
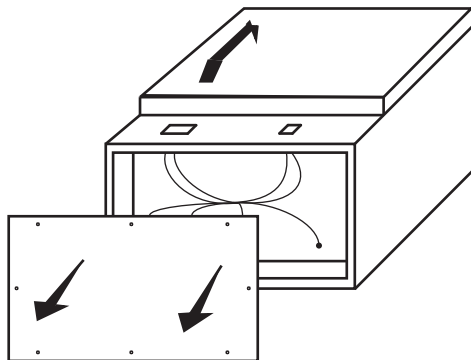To avoid the possibility of injury, disconnect oven from power before servicing.

Omron E5GC Microprocessor

Novus N1020 Microprocessor

## STEP 1 - Accessing the controller

Lay the unit on its back and remove the screws and bottom cover to access the electrical compartment of the unit.

STEP 2 - Removing controller wires

Locate the controller's terminal block and, with a small blade screwdriver remove the wires that are connected to the controller.

Controller Terminal Block

Press on the white button to release the wire from the controller's terminal block
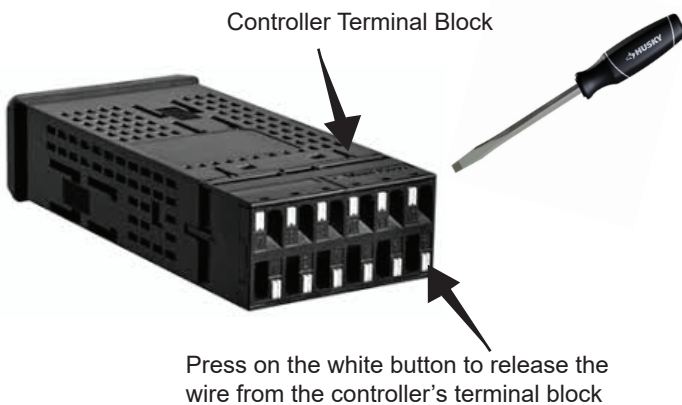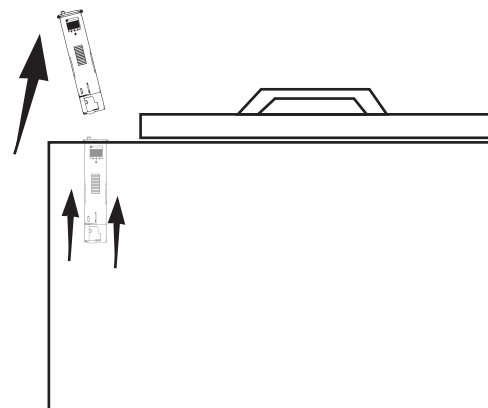
STEP 3 - Removing controller clips

Remove the two (2) clips that hold the controller to the unit by pulling on the ear tab and sliding away from the controller.

Pull ear tab away from the controller

Slide away as ear tab is pulled.

STEP 4 - Removing Controller from the unit

Remove the "old" Omron E5GC controller from the unit by gently pushing on the controller from the inside away from the unit.

STEP 4 - Preparing Controller for Replacement

On the Novus N1020 controller, remove the terminal block from the back of the controller and set it aside for wiring connection in **STEP 6** .

Remove the two (2) clips from the controller and set them aside for reinstallment in **STEP 5**.

Terminal Block

Controller Clip

Pull the ear tab away from controller and slide away
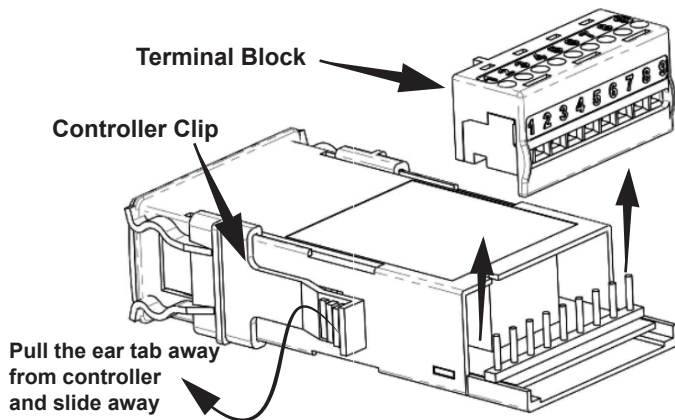
STEP 5 - Placing New Controller in the Unit

Insert the controller on the existing controller cut-out in the unit and place the two (2) clips back to secure the controller.

⚠ You may encounter some resistance when inserting the new controller in place. You can gently force it or wiggle in the unit.
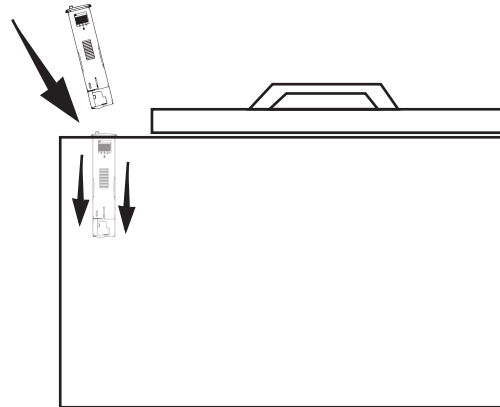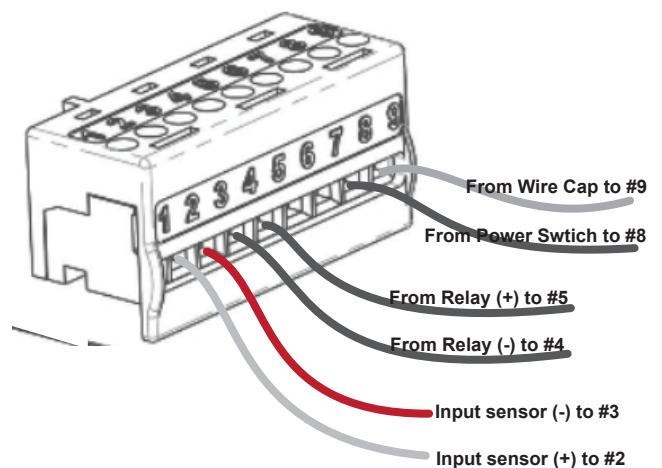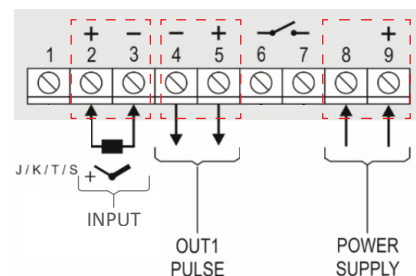
STEP 6 - Wiring the new controller

## Wire Grouping for Controller Terminal

There are (6) wires which will need to be connected to the new Novus N1020 controller terminal block. Take time to identify these wires and note how these are grouped and connect them as follows:

POWER (2 wires)	(#9) - N, white wire (#8) - L, black wire
RELAY OUTPUT (2 wires)	(#5) - Relay (+) , black wire (#4) - Relay (–) , black wire
IINPUT SENSOR (2 wires)	(#3) Sensor (–) , red wire (#2) Sensor (+) , white wire

1 +2 −3 −4 +5 6 7 8 +9
J/K/T/S
INPUT
OUT1 PULSE
POWER SUPPLY

From Wire Cap to #9
From Power Swtich to #8
From Relay (+) to #5
From Relay (-) to #4
Input sensor (-) to #3
Input sensor (+) to #2

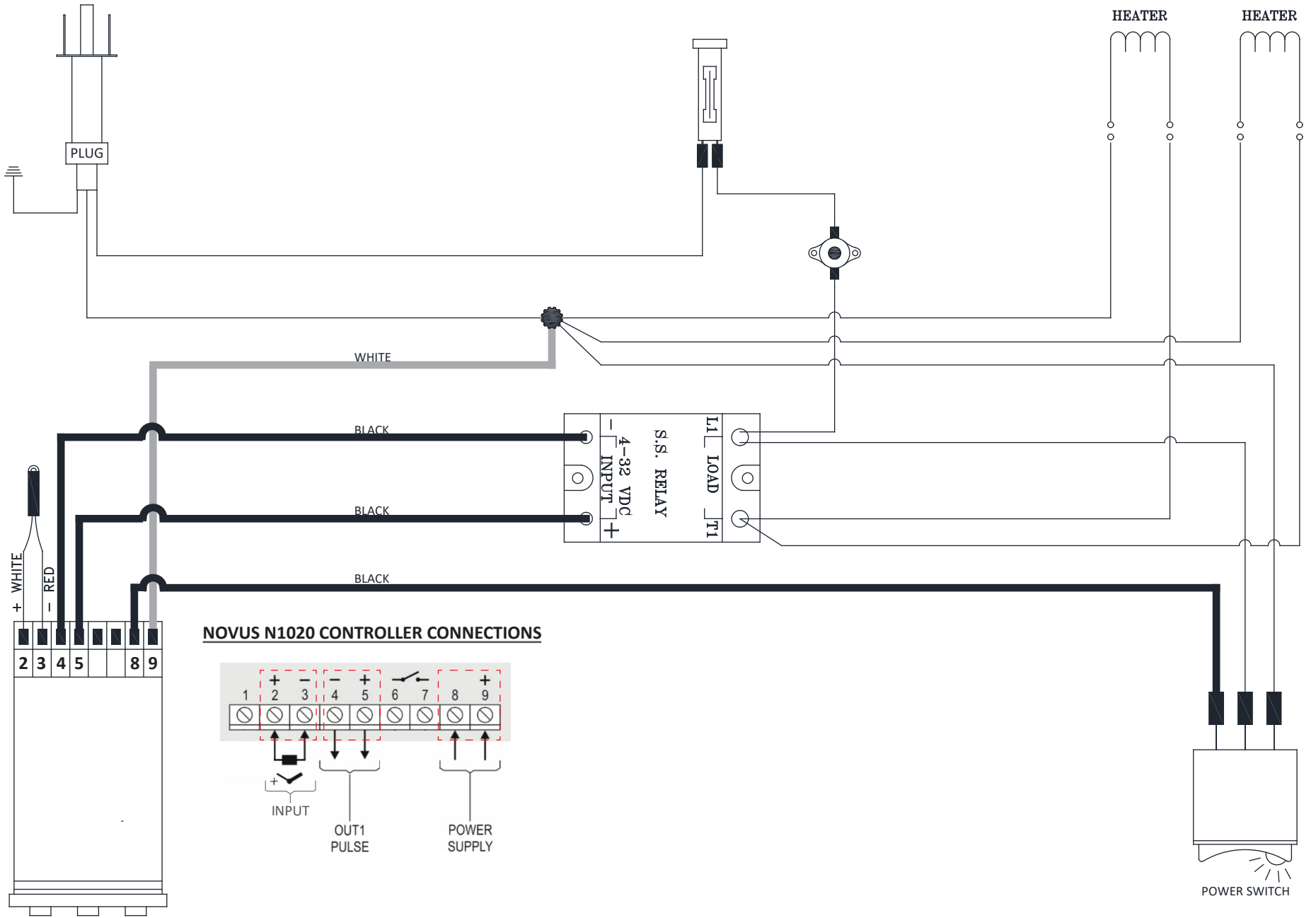## STEP 7 - Reconnect the terminal block

Connect the wired terminal block back to the controller by lining up the controller pins with the terminal block holes and with gentle force push firmly together.

Terminal Block
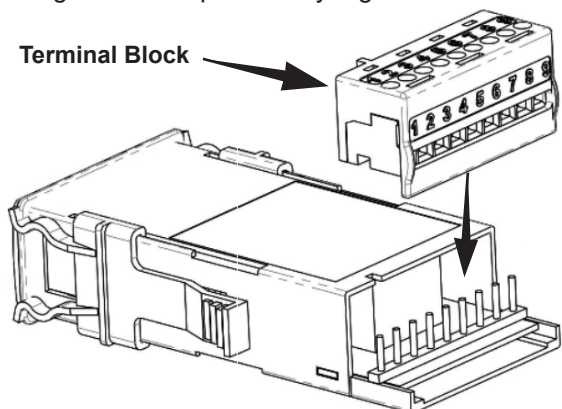
Technical Support

For further assistance with your oven call or email us and we will be happy to assist you.

Email: information@quincylab.com
Voice: 800-482-4328 Opt 2

PLUG

HEATER HEATER

WHITE

BLACK

− 4-32 VDC INPUT + S.S. RELAY L1 LOAD T1

BLACK

+ WHITE

− RED

BLACK

NOVUS N1020 CONTROLLER CONNECTIONS

1	+ 2	− 3	− 4	+ 5	6	7	8	+ 9

INPUT

OUT1 PULSE

POWER SUPPLY

POWER SWITCH