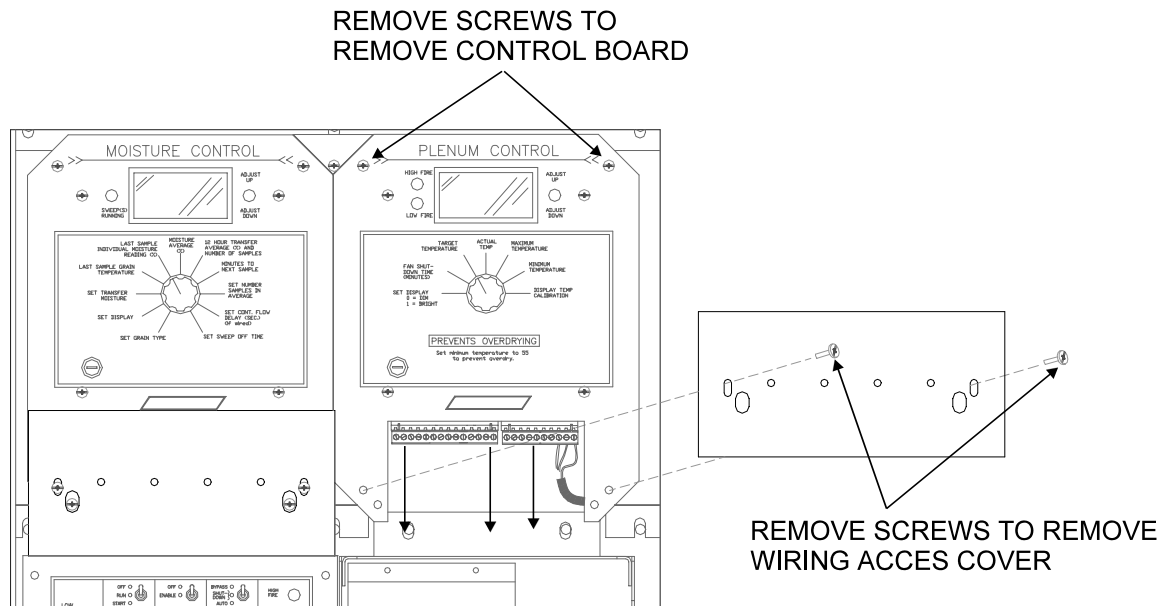# INSTALLING THE PERFORMANCE SYSTEM PROGRAM CHIP IN THE COMMAND CENTER PLENUM CONTROL MODULE

Plenum control program chip version P1.2 is designed to allow 200° plenum temperatures. This program chip should not be used anywhere but the Shivvers performance system. The components of the performance system are designed to withstand the higher plenum temperatures.

⚠ **DANGER**   **DISCONNECT AND LOCK OFF POWER TO THE ENTIRE DRYING SYSTEM!!!**

Check that the low amperage control voltage indicator is off to verify that the power has been turned off. Double check by turning the control panel switch to start, and verify that nothing comes on. Remove the wiring access cover on the Plenum control module by removing the 2 screws holding it in place. Unhook the wiring harnesses by pulling **straight down** on the 2 connectors being careful not to bend any of the pins in the socket. Remove the 2 remaining Phillips head screws (as shown below) holding the control board in, and remove the Plenum control module from the Command center.

REMOVE SCREWS TO
REMOVE CONTROL BOARD
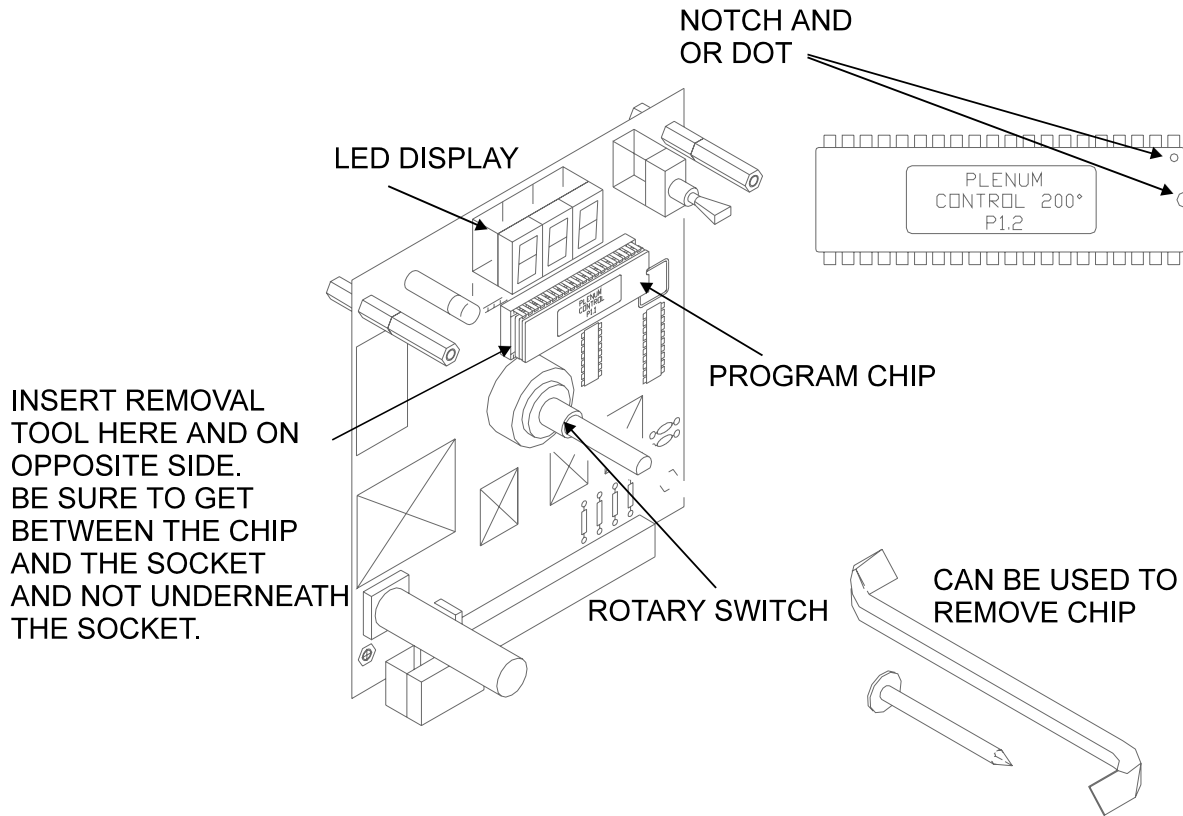
REMOVE SCREWS TO REMOVE
WIRING ACCES COVER

Once the control module has been removed from the command center, the cover plate will need to be removed to gain access to the circuit board. The knob will have to be removed first. Using a small straight screwdriver, loosen the set screw on the knob. The set screw is on the opposite side from the pointer. Loosen set screw just enough for the knob to slide off. This will help with getting the knob back on in the right position later.
After the knob has been removed take out the four remaining screws holding the front cover on. This will allow access to the circuit board where the program chip is located.

CHIP REMOVAL

ATTENTION: The chips on the circuit board are static sensitive devices. Before handling any of these devices be sure to touch a grounded metal object first. Avoid touching the pins on the chips during handling. Leave chip in its shipping container until ready to install.

The program chip is a large 40 pin chip located just above the rotary switch. There will be a white label with the words PLENUM CONTROL P1.1 on the chip. (P1.1 may be different depending on the current program version.)

NOTCH AND
OR DOT

LED DISPLAY

PLENUM
CONTROL 200°
P1.2

PROGRAM CHIP

INSERT REMOVAL
TOOL HERE AND ON
OPPOSITE SIDE.
BE SURE TO GET
BETWEEN THE CHIP
AND THE SOCKET
AND NOT UNDERNEATH
THE SOCKET.

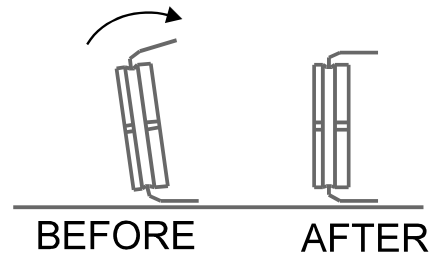CAN BE USED TO
REMOVE CHIP

ROTARY SWITCH

A tool will be needed to remove the chip from its socket. An offset flat screwdriver from NAPA part # 374 will work, or a 1½" roofing nail will also work. The tool needs to be thin enough to slide between the socket and the chip.

Insert the tool between the socket and the chip on either end. Rock the tool back and forth gently lifting the chip about half way out of the socket. Go to the other end and do the same procedure. Keep alternating ends until the chip is free. Trying to remove the chip too fast will bend the pins or possibly break them. Take notice of the orientation of the chip before removing it from the socket. There is a notch and or a dot on one end of the chip. This identifies pin # 1 on the chip. The new chip will need to be installed in the same position. The chip just below the LED display can be used as a reference.

Before installing the new program chip make sure to follow the static charge precautions mentioned on the previous page. To install the program chip, the pins need to be parallel to each other to fit in the socket properly. The pins of new chips angle away from each other slightly. Grasp the chip by each end and place one row of pins on a clean flat metal surface. Carefully bend the pins of the chip inward slightly. Do this with both sides until the pins are parallel with each other. (The old program chip can be used as a guide) Be careful not to over bend and avoid touching the pins as much as possible. Lay the chip in the socket to see if the pins sit in the socket properly. You may have to bend them more if they don't.

END VIEW OF CHIP

BEFORE   AFTER

Place the chip in the socket making sure that the dot and or notch on the chip are on the right and all the pins are in the socket. Using your thumbs press straight down on the chip pushing it into the socket. Make sure all the pins are seated in properly. If a pin does get bent, the chip will need to be removed and the pin straightened.

Once the chip is installed, place the cover plate back on the module with the four screws removed earlier. Place the knob back on the rotary switch and tighten the set screw. Check the knob orientation by rotating it fully clockwise until it stops. The pointer should be at the six o'clock position. Loosen and adjust if it's not. Place the control module back into the Command Center installing the top two screws. Reconnect the 14 and the 10 pole connector, then install the wiring access cover.

Close all covers to the Command Center and turn power back on. Verify that the plenum control comes on and displays the new program version P1.2.