

12/3/09 PIO Board

Note Title

12/3/2009

I find the 3 boards in slightly different states.

2 appear a little older and say "POP" 2-6. They have Burr-Brown DC-DC converter at the top of the board. The one with serial number ending in "074" is missing the relay for the top channel, chan 32. We don't use the upper 16 channels so that is not a problem.

The third board does not have a DC-DC converter. It is labeled "POP" 2. S/N 9702259.

S/N 9702259 was installed on the R-arm. It has the first 6 channels configured as outputs, the link (jumper) is open. The next ten channels (ch 7-16) are configured as inputs, the link is closed (the jumper is installed). Channels 17-32 have jumpers installed on pins 2-3 and 4-5. This is for inputs that are only switch contacts. The DC-DC converter should provide power to drive the optocoupler. So, what does this do for the S/N 9702259 board?

For the board S/N 9429074 the first 5 channels are configured as outputs, no jumpers are installed. Channels 6-16 have jumpers installed and are thus configured as inputs. Channels 17-32 have jumpers on 2-3 and 4-5.

Board S/N 9428402 has the first 6 channels without jumpers and thus configured as outputs. Channels 7-16 have jumpers installed and are thus inputs. Channels 17-32 have jumpers on 2-3 and 4-5.

12/05/09 JJ

The board S/N 9429074 did not have a Ready LED lit nor did ch 6 & 7 LEDs light up. But, the readback of the register would show the correct inputs to ch 6 & 7. It turned out the pins 5 & 6 of the socket the LED matrix is plugged into were broken at the back of the socket. I bent the pins to correct and soldered the pins. It seems to work correctly, now. Also, ch 6 has the jumper open. I just missed that point when I looked at it the other day.

All 3 boards seem OK on a bench test.

