PROJECT: THIRD PARTY, DIY REPLACEMENT OF THE OBSOLETE TOSHIBA PROGRAMMING CABLE FOR THE EX100 CPU: PU11A and PU12 "CURRENT LOOP" MODEL: EX25GP232A-TIC2 USING A BnB 232CL9R CONVERTER- MODIFIED FOR 5 VDC

http://www.plctalk.net/qanda/showthread.php?t=69165&page=5

JRW:

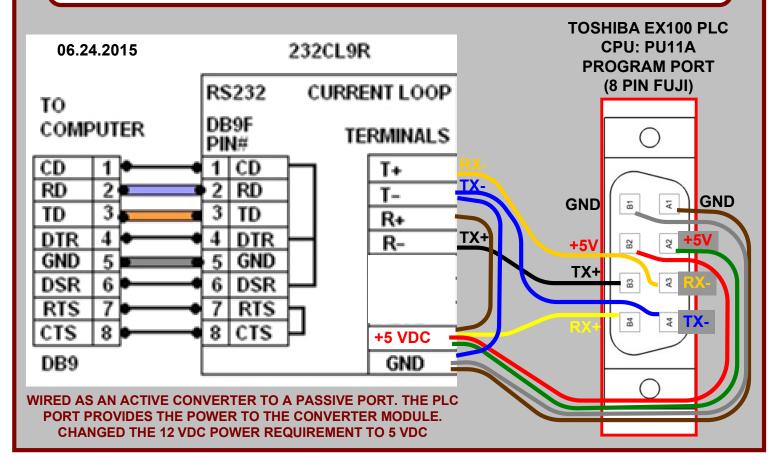
"I think I have discovered some of the problems why the BnB device is being so difficult to adapt. If they had used +5vdc instead of +12vdc, that would have helped. Also, using their device, I can see a need to jumper the PLC port connector A2,B2 to B4 to their +12vdc terminal which would be equivalent to the direct +5vdc connection on the DIY. On the BnB device there is also a need to jumper their +12RES terminal to the +12 terminal where an external power source would be connected. Then, maybe a jumper from RES1 to R1+. Next, a jumper from the R- to the T+ on the PLC port. This is similar to a portion of figure 3 of the drawing 232cl9r_BnB_schematic.pdf. Also A4 needed to jumper to A1,B1 of the PLC port. I realize that the word description is confusing. This might not be the whole answer or 100% correct since I don't have either the BnB device or PLC available to test."

<u>BKS:</u>

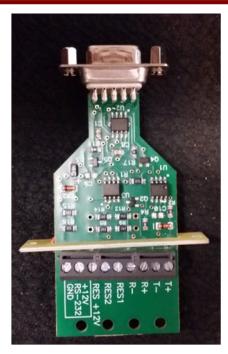
"I don't want to risk putting 12VDC across the 5VDC port... I feel a bit safer as shown below:"

After the previous diaglogue with JRWB4GBM at PLCTALK.NET I was hit with a LBM (Light Bulb Moment). I diagrammed his idea and then it hit me: Change the BnB Converter to 5 VOLTS!!! Well after a lot of prayer, pacing, Googling, chatting with distributors and on and on... hours later I did the following and it worked!!! HalleluYAH!!! And Thank You JRW!!!

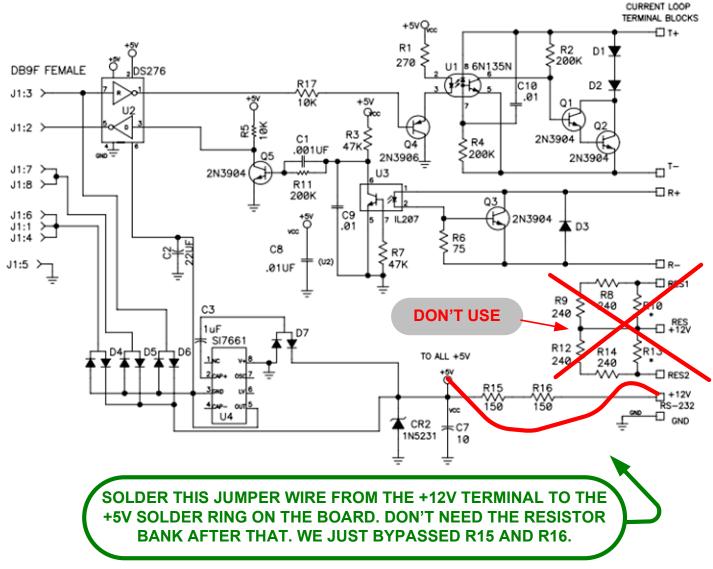
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9 Pin RS-232 to Current Loop Converter Model 232CL9R



The Model 232CL9R is a passive 9 pin RS-232 to current loop converter. This converter requires a 12VDC-power supply at 100mA. Additional resistors are supply for an active source.

