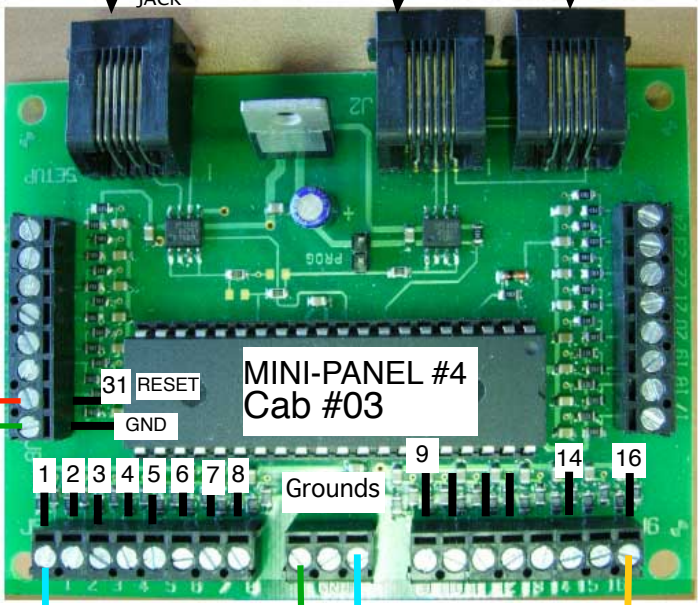


YOU CAN PLUG A PROCAB INTO THE PROGRAMMING JACK TO OPERATE THE MINI-PANEL IN "TEST" MODE, OR TO MAKE PROGRAMMING CHANGES.



YOU CAN PLUG A PROCAB INTO EITHER OF THE 2 CAB BUS JACKS, TO MANUALLY CONTROL THE TRAINS WHEN THE MINI-PANEL IS NOT OPERATING.

NCE CAB BUS (6 WIRE CABLE, included with Mini-Panel)



TO SWITCH FROM "PROGRAM" MODE, TO "RUN" MODE:

- 1) PROCAB MUST BE REMOVED FROM PROGRAMMING JACK.
- 2) MINI-PANEL MUST BE RESTARTED

TO SWITCH FROM "RUN" MODE, TO "PROGRAM" MODE:

- 1) PROCAB MUST BE INSERTED INTO PROGRAMMING JACK.
- 2) MINI-PANEL APPARENTLY WILL CHANGE FROM "RUN" MODE, TO "PROGRAM" MODE WITHOUT RESTARTING

NOTE THAT PUSHBUTTON #1 WILL NOT ACTIVATE COMMANDS IN "PROGRAM" MODE, ONLY WHILE IN "RUN" MODE

WHEN IN "RUN" MODE: ONLY INPUTS THAT HAVE NOT BEEN "DISABLED" WILL WORK FOR PUSHBUTTONS (INPUTS 1 & 2 AS WE CONFIGURED IT, SINCE WE DISABLED INPUTS 3 & ABOVE).

INPUT 16 IS DISABLED, SO WILL BE "EXAMINED" ONLY WHEN REQUESTED BY A COMMAND (WAIT INPUT 16 GROUND). WE COULD HAVE USED ANY OF INPUTS 4-30 THAT ARE "DISABLED".

YOU MAY WANT TO USE A VOLTMETER TO DOUBLE-CHECK THAT THERE IS NO VOLTAGE ON THE BLUE & WHITE WIRES GOING TO INPUT #16 & GROUND ON THE MINI-PANEL.

(THE MINI-PANEL HAS ITS OWN 5V SUPPLY; PUTTING EXTERNAL VOLTAGE ONTO THE INPUTS OF THE MINI-PANEL WILL DAMAGE IT.)

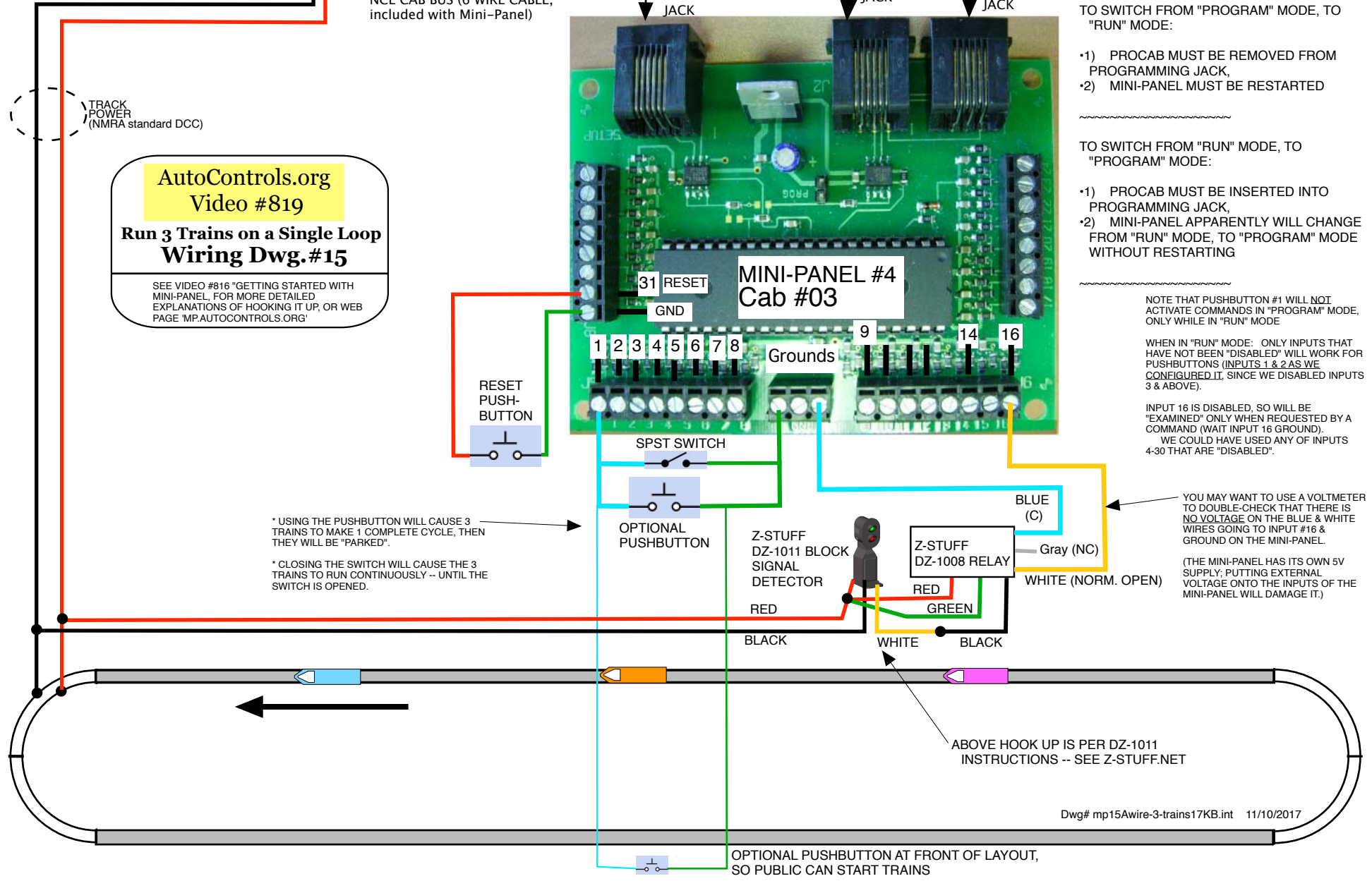
**AutoControls.org**  
Video #819  
**Run 3 Trains on a Single Loop**  
**Wiring Dwg. #15**

SEE VIDEO #816 "GETTING STARTED WITH MINI-PANEL, FOR MORE DETAILED EXPLANATIONS OF HOOKING IT UP, OR WEB PAGE 'MP.AUTOCONTROLS.ORG'

\* USING THE PUSHBUTTON WILL CAUSE 3 TRAINS TO MAKE 1 COMPLETE CYCLE, THEN THEY WILL BE "PARKED".

\* CLOSING THE SWITCH WILL CAUSE THE 3 TRAINS TO RUN CONTINUOUSLY -- UNTIL THE SWITCH IS OPENED.

TRACK POWER (NMRA standard DCC)



ABOVE HOOK UP IS PER DZ-1011 INSTRUCTIONS -- SEE Z-STUFF.NET

OPTIONAL PUSHBUTTON AT FRONT OF LAYOUT, SO PUBLIC CAN START TRAINS