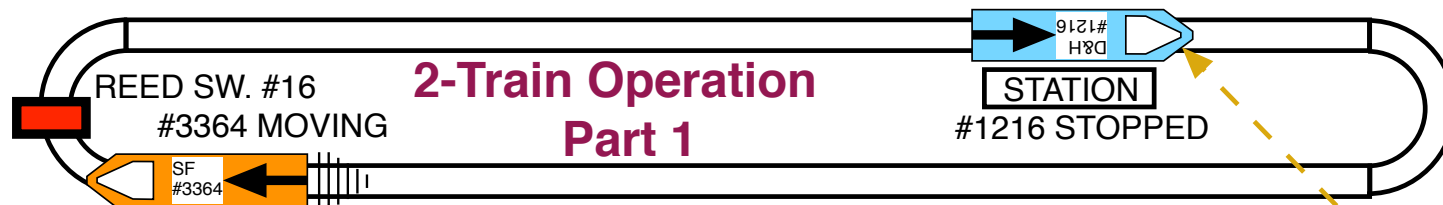


- **Initial Conditions:** Start loco "East" of the Reed Switch (as shown).
- Adjust "Delay" length on each side of the Reed Switch, to get desired stopping points.
- Optimum position for the Reed Switch is midway between ends, but not necessary. (Less accumulated error.)
- If the Reed Switch is at one END, then set that "Delay" to 1/4 sec (essentially zero).
- **NOTE:** TWO reed switches {1 at EACH end} are more dependable, whenever it's possible to use two.

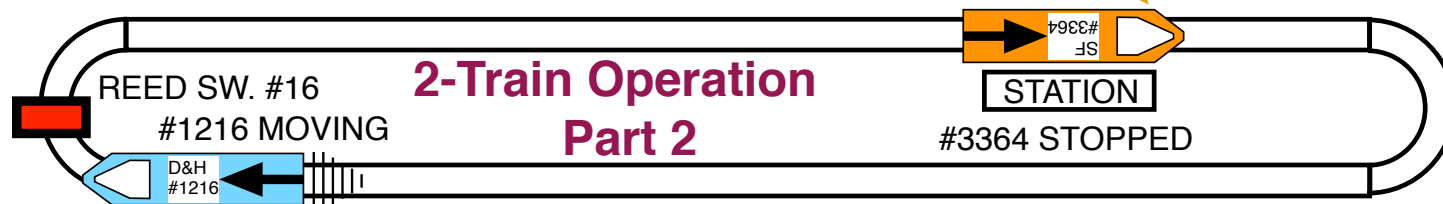


PART 1:

Initial Conditions: Blue loco stopped at Station, orange loco is traveling on mainline, upstream of the reed switch.

- The Blue loco is STOPPED, and WAITS until the Orange loco crosses the Reed Switch.
- Then, the Blue loco STARTS. The Orange loco travels on to the Station, and STOPS.
- The process REPEATS, when the Blue loco reaches the Reed Switch.

WARNING: The STOP command needs to be sent to the Orange loco when it reaches the Station, BEFORE the Blue loco travels around the loop and crosses the reed switch (or else Mini-Panel MISSES Blue loco crossing the reed switch, and have wreck).



PART 2:

- The Orange loco is STOPPED, and WAITS until the Blue loco crosses the Reed Switch.
- Then, the Orange loco STARTS. The Blue loco travels on to the Station, and STOPS.
- The process REPEATS, when the Orange loco reaches the Reed Switch.

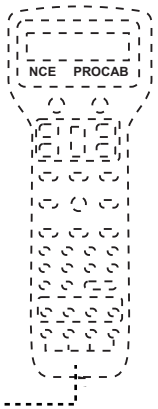
WARNING: The STOP command needs to be sent to the Blue loco when it reaches the Station, BEFORE the Orange loco travels around the loop and crosses the Reed Switch (or else Mini-Panel MISSES Orange loco crossing the reed switch, and have wreck).

NOTE: See previous Video #815 for a more DETAILED logic diagram of 2 train operation with a single reed switch.

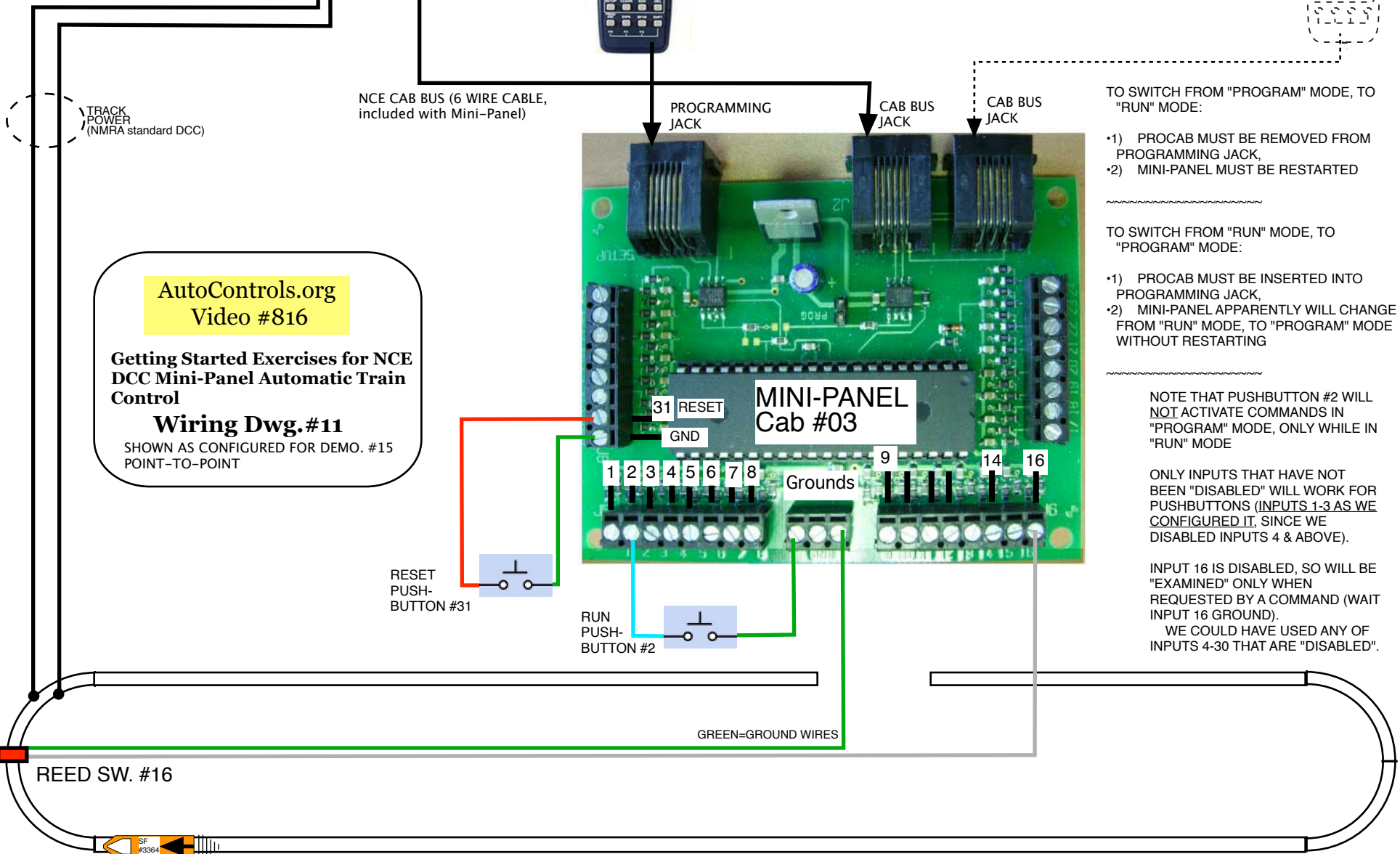


PROCAB -
PLUGGED INTO
PROGRAMMING
JACK

OPTIONAL 2ND PROCAB -- CAN BE
USED TO MANUALLY CONTROL
TRAINS WHILE MP IS IN
PROGRAMMING MODE



PROGRAM MODE



AutoControls.org
Video #816

Getting Started Exercises for NCE
DCC Mini-Panel Automatic Train
Control

Wiring Dwg.#11

SHOWN AS CONFIGURED FOR DEMO. #15
POINT-TO-POINT

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 #2 WILL NOT ACTIVATE COMMANDS IN "PROGRAM" MODE, ONLY WHILE IN "RUN" MODE

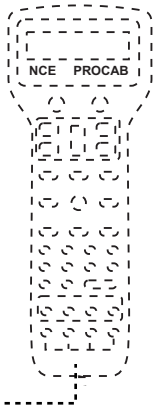
ONLY INPUTS THAT HAVE NOT BEEN "DISABLED" WILL WORK FOR PUSHBUTTONS (INPUTS 1-3 AS WE CONFIGURED IT, SINCE WE DISABLED INPUTS 4 & ABOVE).

INPUT 16 IS DISABLED, SO WILL BE "EXAMINED" ONLY WHEN REQUESTED BY A COMMAND (WAIT INPUT 16 GROUND).

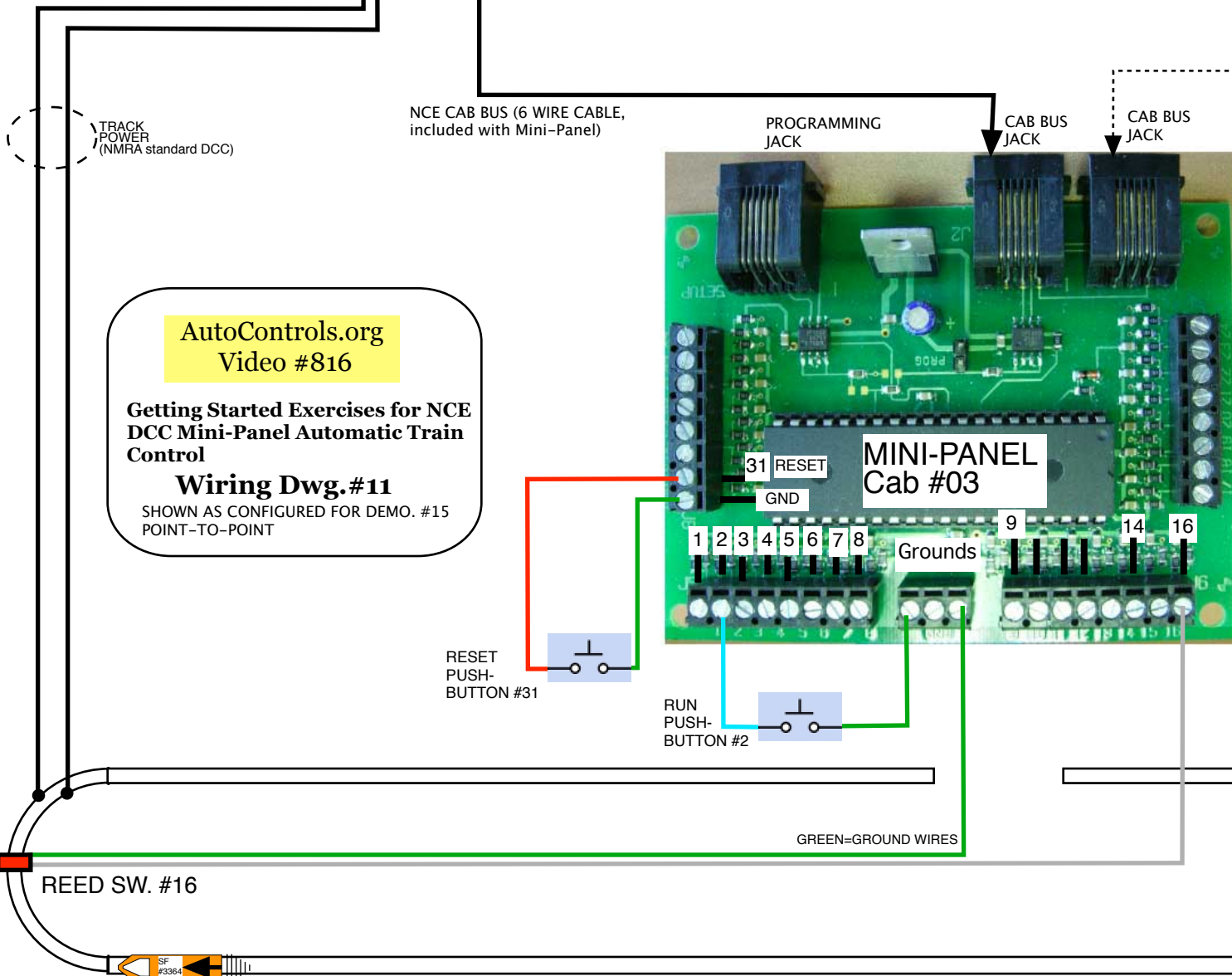
WE COULD HAVE USED ANY OF INPUTS 4-30 THAT ARE "DISABLED".



OPTIONAL PROCAB
 -- CAN BE USED TO
 MANUALLY
 CONTROL TRAINS,
 WHILE MP IS IN RUN
 MODE



RUN MODE



AutoControls.org
 Video #816

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Wiring Dwg.#11

SHOWN AS CONFIGURED FOR DEMO. #15
 POINT-TO-POINT

TO SWITCH FROM "PROGRAM" MODE, TO
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- 1) PROCAB MUST BE REMOVED FROM PROGRAMMING JACK.
- 2) MINI-PANEL MUST BE RESTARTED

TO SWITCH FROM "RUN" MODE, TO
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- 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 #2 WILL NOT ACTIVATE COMMANDS IN "PROGRAM" MODE, ONLY WHILE IN "RUN" MODE

ONLY INPUTS THAT HAVE NOT BEEN "DISABLED" WILL WORK FOR PUSHBUTTONS (INPUTS 1-3 AS WE CONFIGURED IT, SINCE WE DISABLED INPUTS 4 & ABOVE).

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