

DIRECTIONS FOR SPUR CONTROL FOR LIONEL O GAUGE SWITCHES



A tip for you regarding crimping on the spade connectors. The wires are pretty thin and are not structurally strong enough to take a normal crimp. What we do here is strip the insulation off about 3/8" worth or so, then we fold the wires over the insulation on the wire. Then we put the spade connector over both the wire and the insulation and crimp it. By doing this the crimping force is now on the vinyl insulation as well as the wire, much stronger.

THE FOLLOWING DIRECTIONS ASSUME YOU WILL BE USING OUR “GREEN BUTTON CONTROLLER, NOTE THE CENTER GREEN BUTTON, IF YOURS HAS A RED BUTTON, THAT CONTROLLER IS FOR THE O27 SERIES SWITCHES AND WILL NOT WORK PROPERLY ON YOUR O22 STYLE SWITCHES

The controller comes with 3 cables, 2- 6 conductor each, 8 or 16 foot cables that go to the switches, and a 3' cable that is wired to your transformer.

Note these instructions illustrate one of the 8' cables, the other cable is wired the same.

the 3' cable: This cable goes to your transformer.

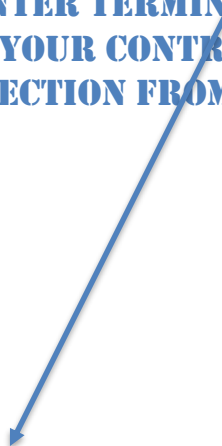
- **The red wire should be wired to accessory power This is a power connection on your transformer that will provide 14 volts or so constant, and is separate from the center rail track power**

- The black wire should be tied into your track power that supplies the power to the center rail in the loop your switch is installed in.
- The yellow wire should be wired to any one of the "common" connectors on your transformer. For example with the KW or ZW transformers, that would be the U terminals. For other transformers it would be wherever you wire the outside rails to.
- The blue wire is not used.

The 8' long cable:

- The red wire goes to the red wire on the bootstrap plug, (the plug that fits into the side of the switch)
- the black wire to the black wire on the bootstrap plug .
- the blue wire goes to the left outside screw terminal on the switch,
- the yellow to the right hand screw.
- Note: if the switch works backwards, ie red should be green etc. swap the yellow & blue wires
- nothing to the center terminal which is a ground connection on the switch. Your controller gets its needed ground

NOTHING TO THE CENTER TERMINAL WHICH IS A GROUND CONNECTION ON THE SWITCH. YOUR CONTROLLER GETS ITS NEEDED GROUND CONNECTION FROM THE TRANSFORMER.





RED WIRE FROM 8' CORD

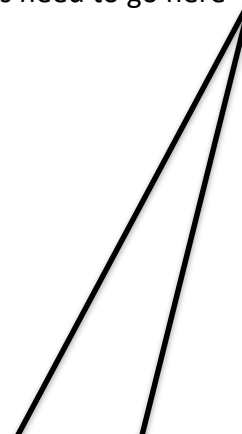


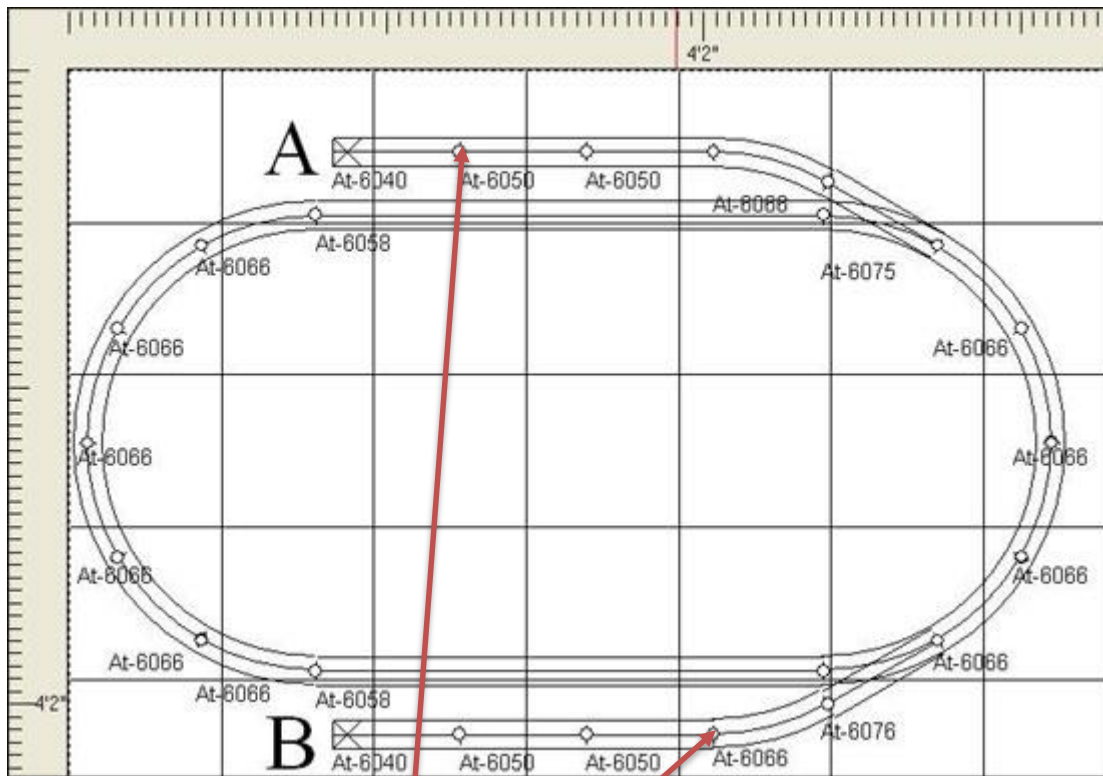


BLACK WIRE FROM 8' CABLE

Directions for new spur switch and power control

This is a drawing which has 2 spurs, These spurs are designed to be able to drive a car and or engines on them and park them. In order to make this work we will need to add a couple of insulator pins so the center rail track power cannot get into the spur as shown which stops the current from the loop to the spur tracks center rail. The insulator pins need to go here





Next you will need to run the brown wires to the spurs like shown here: you can use a lock on or simply solder the wires to the center rails: This is where you will put the appropriate brown wire(s) from the controllers which will turn on center rail power when you push the yellow or blue button