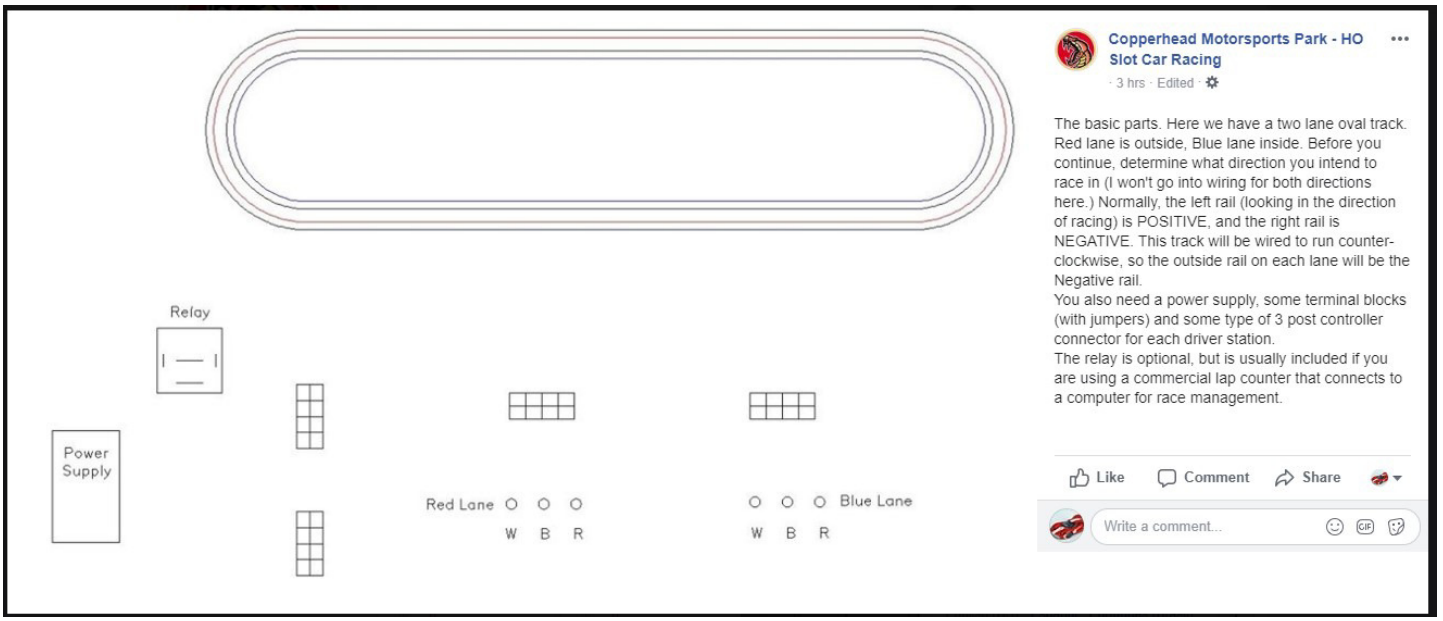
How to wire your slot car track. Courtesy of Copperhead Motorsports Park.



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The basic parts. Here we have a two lane oval track. Red lane is outside, Blue lane inside. Before you continue, determine what direction you intend to race in (I won't go into wiring for both directions here.) Normally, the left rail (looking in the direction of racing) is POSITIVE, and the right rail is NEGATIVE. This track will be wired to run counter-clockwise, so the outside rail on each lane will be the Negative rail.
You also need a power supply, some terminal blocks (with jumpers) and some type of 3 post controller connector for each driver station.
The relay is optional, but is usually included if you are using a commercial lap counter that connects to a computer for race management.

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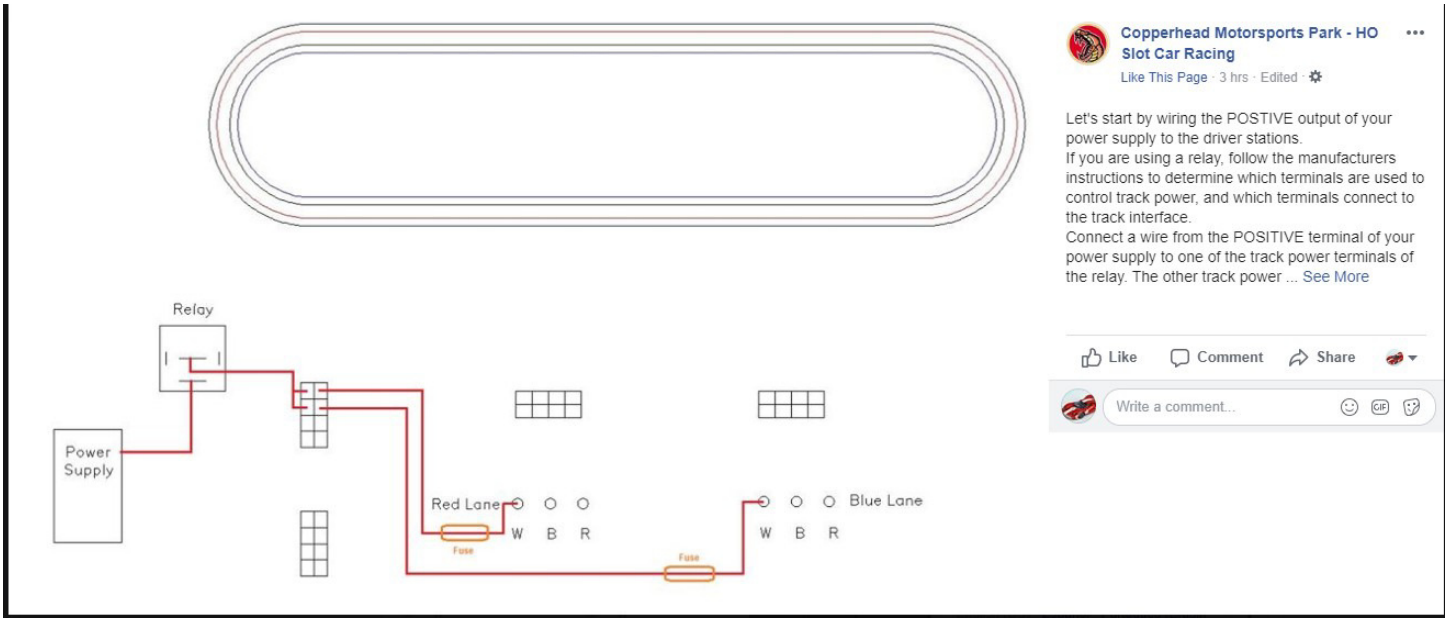

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Let's start by wiring the POSTIVE output of your power supply to the driver stations.
If you are using a relay, follow the manufacturers instructions to determine which terminals are used to control track power, and which terminals connect to the track interface.
Connect a wire from the POSITIVE terminal of your power supply to one of the track power terminals of the relay. The other track power ... See More

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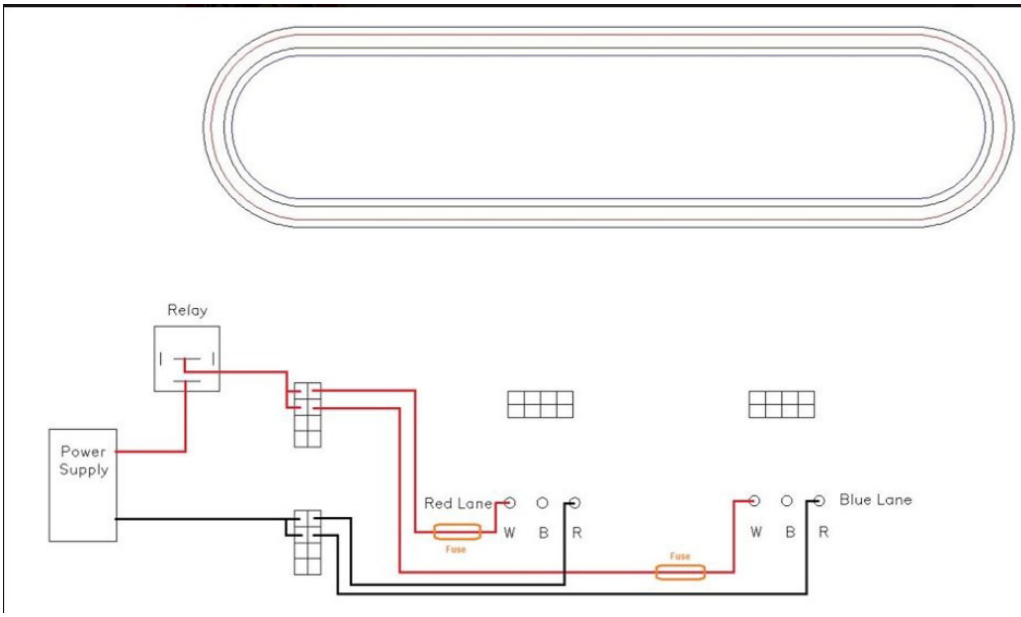

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Now you can wire the NEGATIVE side of your power supply to the driver station RED posts through a terminal block as shown.

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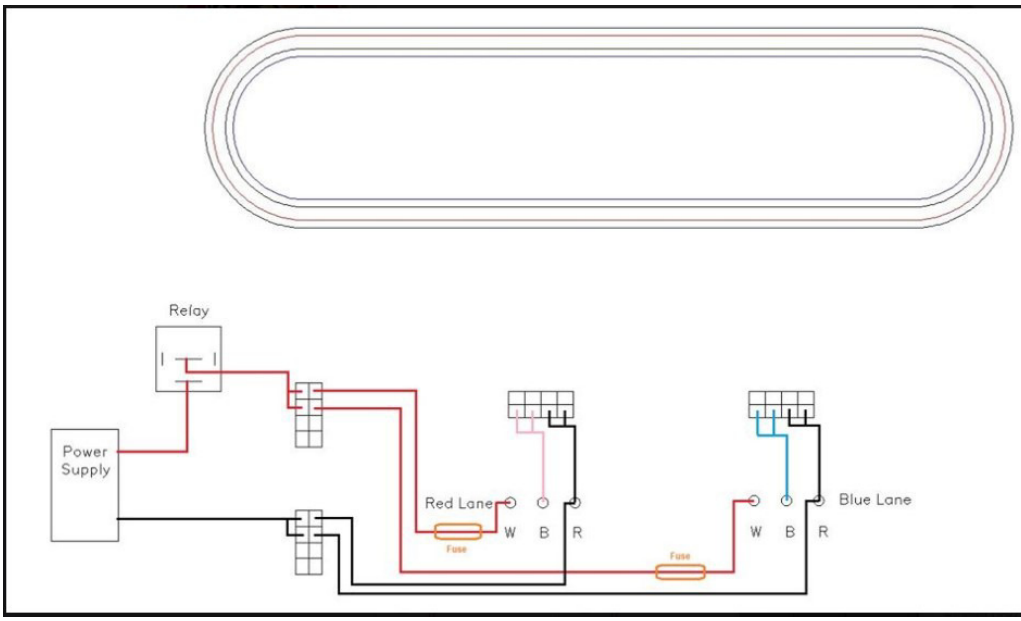

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Finish wiring your driver stations by connecting the BLACK and RED posts to a terminal block. If you are going to use more than two track feeds, use a terminal block with more positions. If needed, you can split the connection to two separate blocks, one for the BLACK post, and one for the RED post.
It's a good idea to try to match the wire color from the BLACK post to the lane color it will be supplying.

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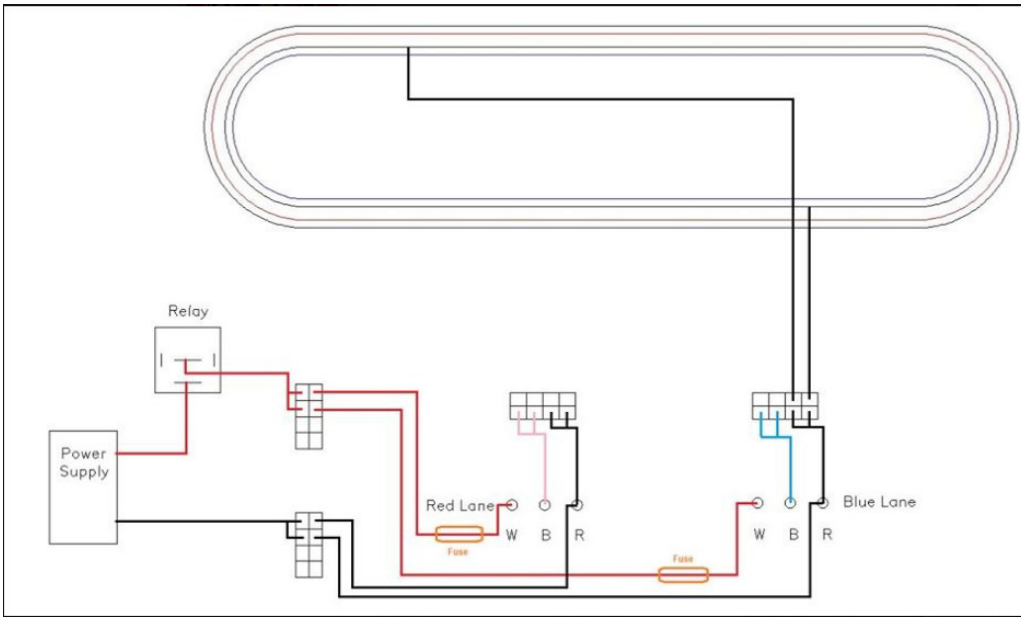

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Now its' time to connect the track.
Run wires from your terminal block RED post feed to the NEGATIVE rail of your lane (the Blue lane here.)
Make absolutely certain all feed wires connect to the same rail, or you'll end up with a short circuit.

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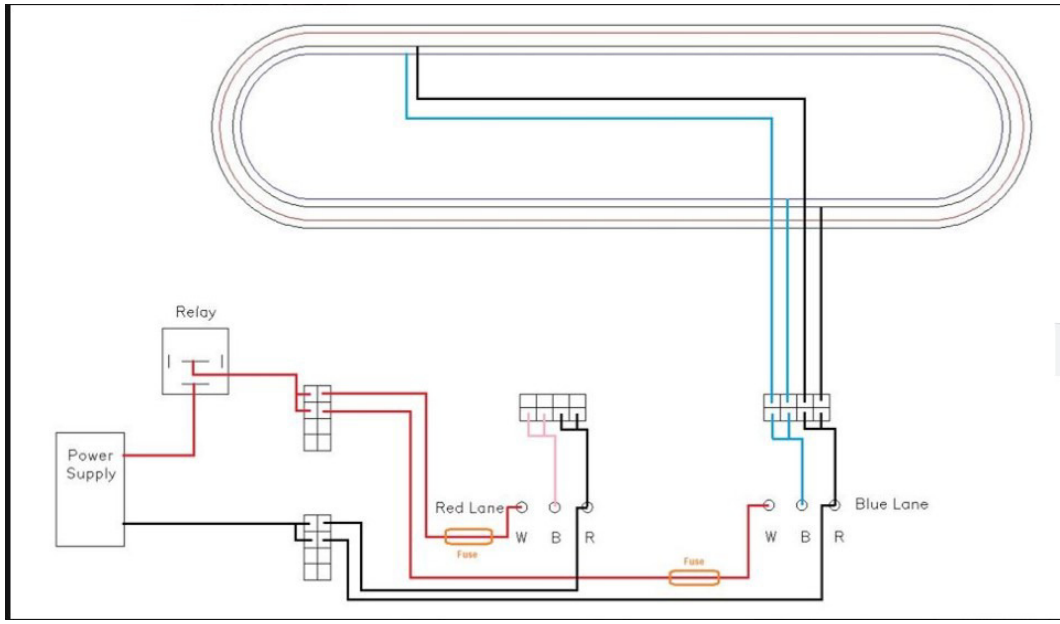

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Now repeat the wiring from the terminal block BLACK post feed to the POSTIVE rail of your lane. Again, try to match lane color - if you ever have a problem, it will make tracing your wiring a lot easier! And, make sure all wires connect to the proper rail. There! The Blue lane is done!

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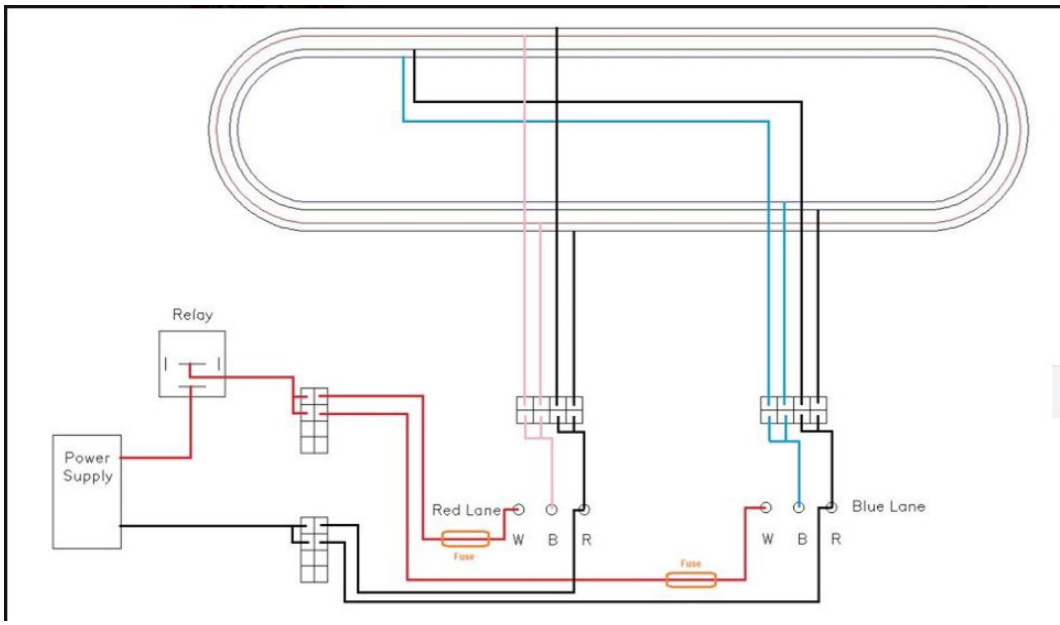

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Repeat the same procedure (Negative and Positive rail feeds) on the Red lane.
Connect your controller (white wire to White post, black wire to Black post, red wire - if used - to the Red post) and start racing!
If you have a 4 (or more) lane track, the procedure is the same. Just get terminal blocks with more positions. I've seen them with up to 12.

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