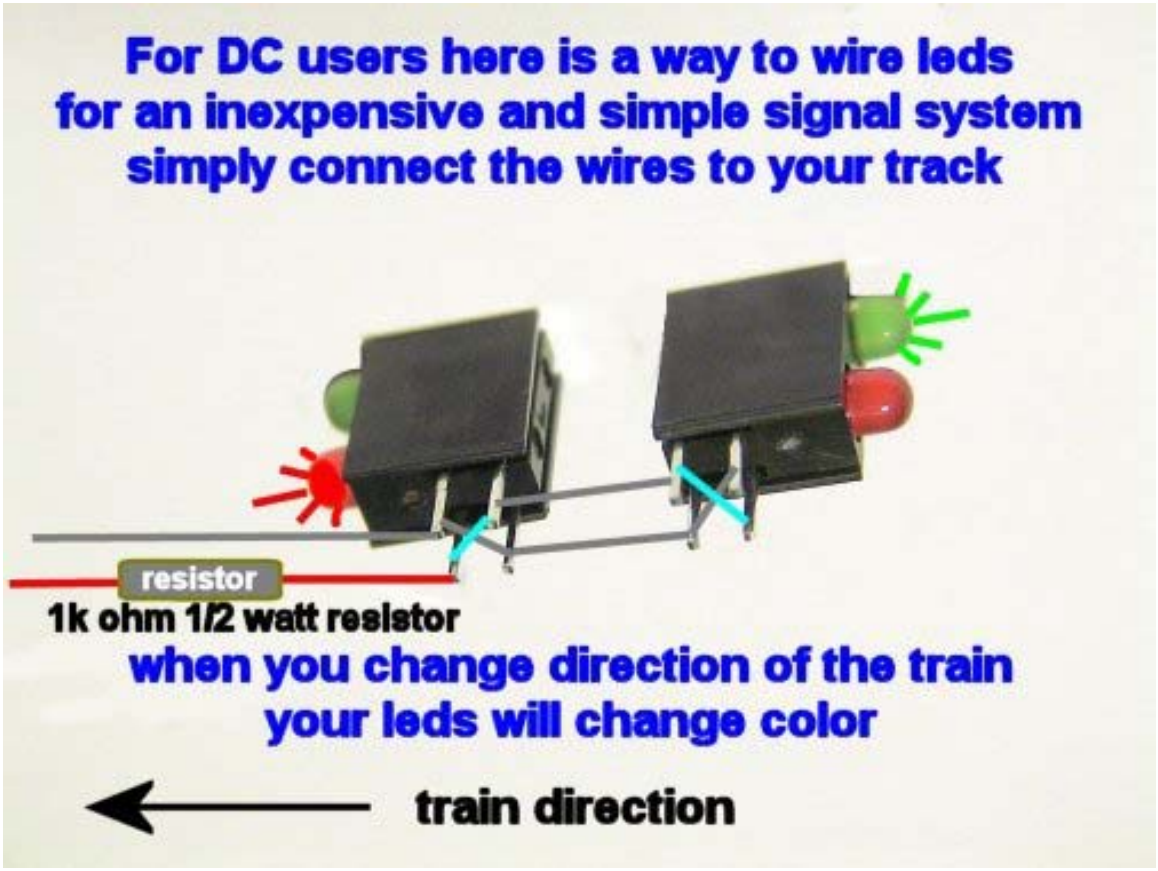
Wiring Diagrams for use with our 3mm Bilevel Green over Red D Type Led Signals all images and text are Copyright © 2014 Quickar Electronics, Inc. / www.moreleds.com



Below is a diagram for standard use applications

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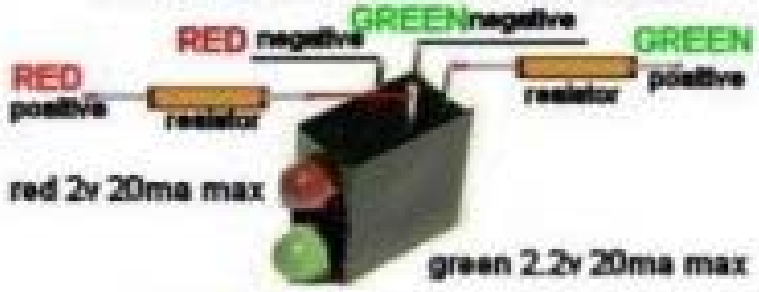
for use as switch throw direction indicators
go to www.quickar.com/turnoutwiring.pdf

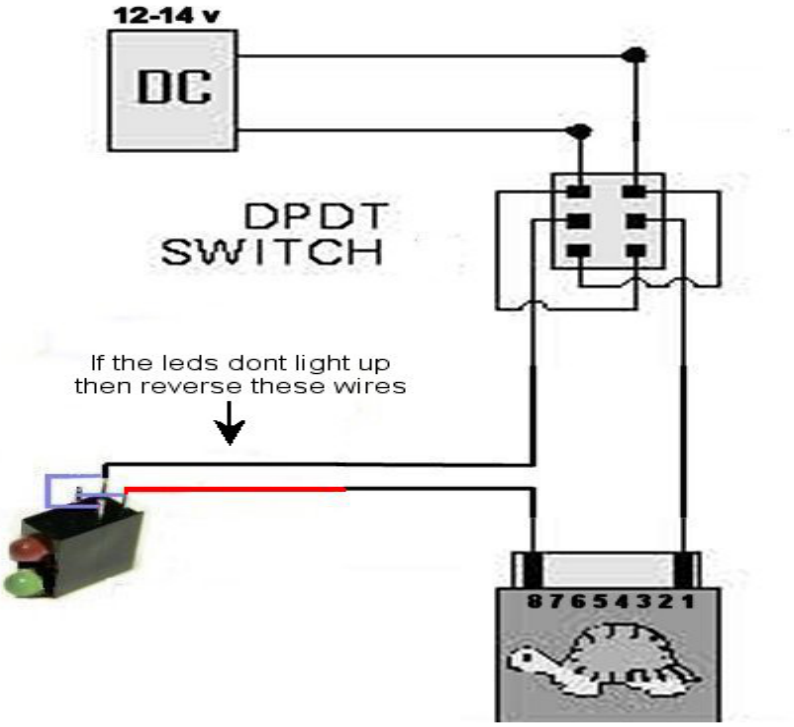


Free 560 ohm 1/2 watt resistors
for 12 volts included

Below is a wiring Diagram for use with Tortoise Switch Motors
Note: when used with a tortoise no resistors are needed

Tortoise Switch Machine
Bipolar Led Wiring
led changes colors from red to green
depending on position of switch

Wiring Diagram from
Quickar Electronics - www.quickar.com - Electronic Components
MoreLEDS.com - www.moreleds.com - Leds and Kits for Model Railroaders



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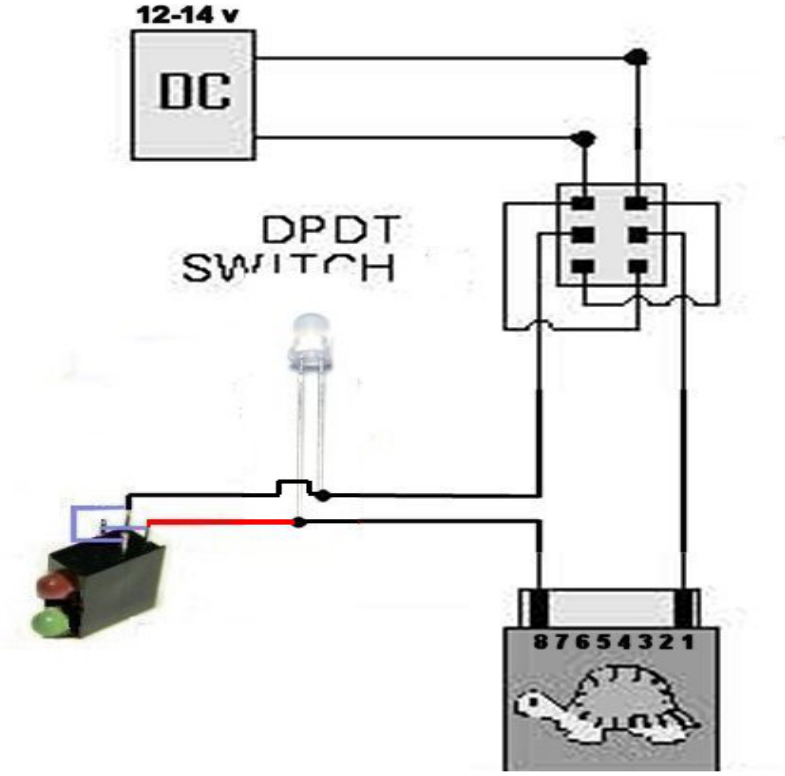
Below is a diagram for use with a Tortoise Switch Motor using our BiLevel 3mm leds at the trackside and a Bippolar red/green led at your control panel

Tortoise Switch Machine
Bipolar Led Wiring
led changes colors from red to green
depending on position of switch

Wiring Diagram from
Quickar Electronics - www.quickar.com - Electronic Components
MoreLEDS.com - www.moreleds.com - Leds and Kits for Model Railroaders



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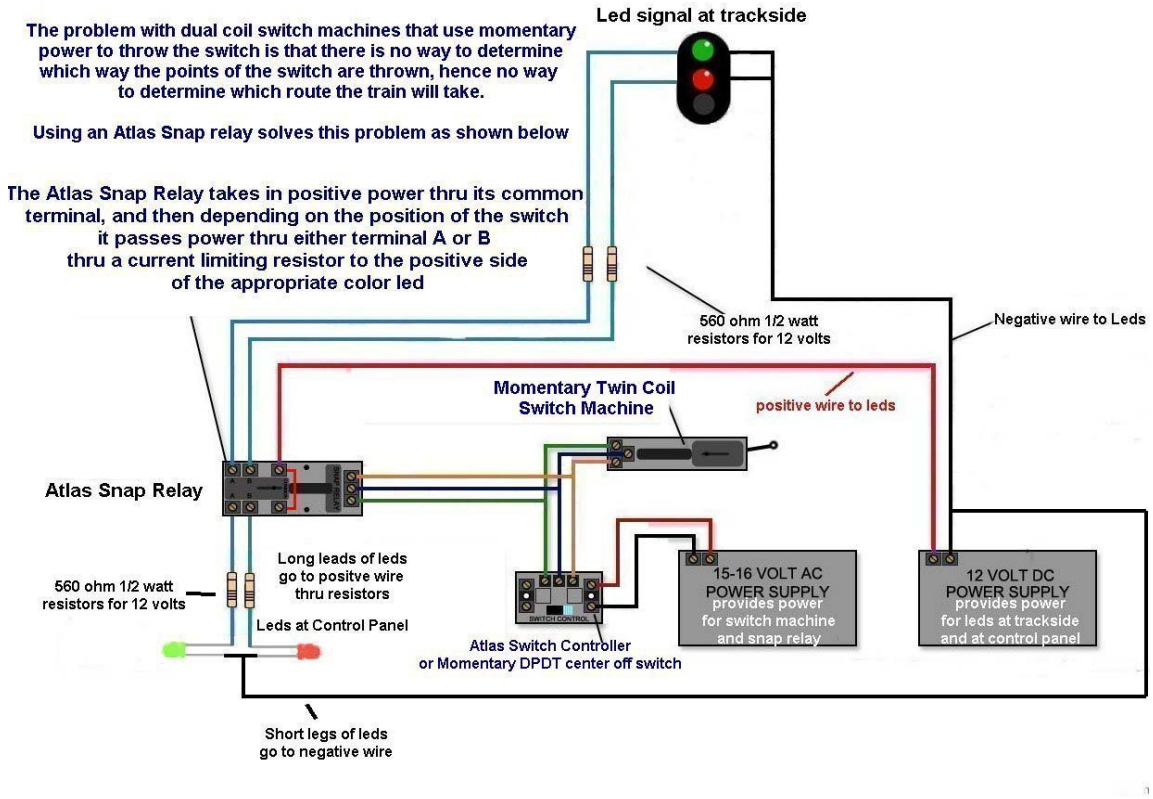
BELOW IS A DIAGRAM FOR USING THESE LEDS WITH MOMENTARY SNAP ACTION SWITCHES


Led signal at trackside
The problem with dual coil switch machines that use momentary power to throw the switch is that there is no way to determine which way the points of the switch are thrown, hence no way to determine which route the train will take.
Using an Atlas Snap relay solves this problem as shown below
The Atlas Snap Relay takes in positive power thru its common terminal, and then depending on the position of the switch it passes power thru either terminal A or B thru a current limiting resistor to the positive side of the appropriate color led
560 ohm 1/2 watt resistors for 12 volts
Negative wire to Leds
Momentary Twin Coil Switch Machine
positive wire to leds
Atlas Snap Relay
Long leads of leds go to positve wire thru resistors
560 ohm 1/2 watt resistors for 12 volts
Leds at Control Panel
Atlas Switch Controller or Momentary DPDT center off switch
15-16 VOLT AC POWER SUPPLY provides power for switch machine and snap relay
12 VOLT DC POWER SUPPLY provides power for leds at trackside and at control panel
Short legs of leds go to negative wire