South Bend Signal Company

Traffic Signals

And

Traffic Control Unit

SBSC 2015

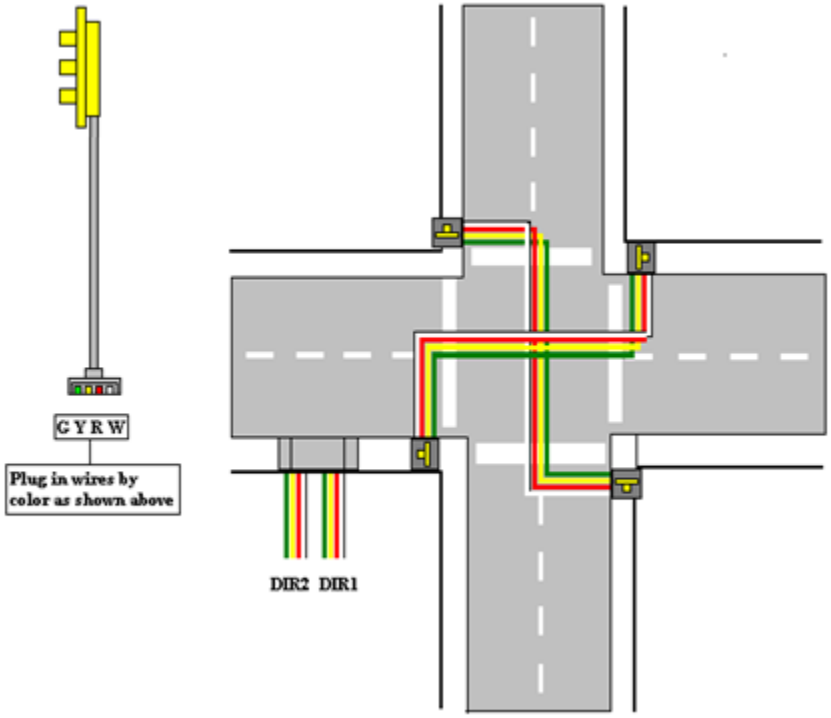
LTS Large Scale Traffic Signal and Traffic Control Unit

The large scale traffic signal provides the American standard lighting scheme of red on top yellow and green on the bottom.

Installing the Signals and Wires

Refer to FIG.1 for all installations. Install the signals at the intersection. Mark hole for screws and drill a 16th inch pilot hole for each screw. For a 2 way intersection install one signal on one side of the intersection and the second signal on the opposite side of intersection. Insert the plug provided according to the diagram in FIG.1. The order is green, yellow, red and white starting from the left and the signal terminal is facing you.

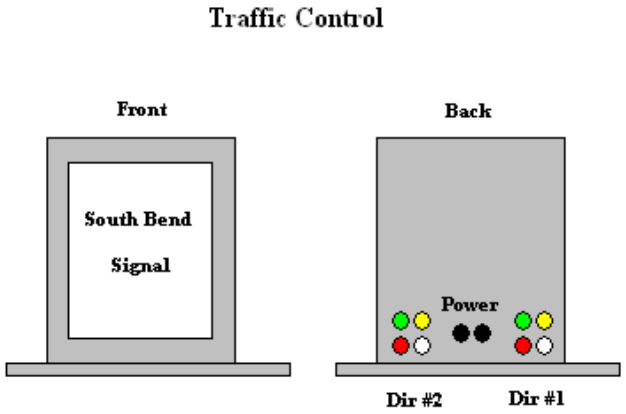
FIG.1



Solder the wires of the same color together from each signal and then solder additional wire using shrink warp tubing back to the Traffic Control Unit (TCU). Connect the signals to the TCU Dir#1. For a 4 way intersection connect the wires for a second set of signals together and run wires from them back to the TCU and connect the signals to Dir#2. If you are not using the TCU with the signal(s) use the 1K resistor. Connect it to the white wire for 12 volt operation.

Installing the Traffic Control Unit

FIG .2



The TCU contains the electronics to control the signals. It will automatically change the signals from green to yellow and then to red for a preset period of time. For a 4 way intersection when one direction's signals change from yellow to red, the other 2 signals will turn green and cycle back and forth between the two directions. The signals will continue to cycle as long as power is applied. Install the TCU next to one of the signals drilling holes for the wires and securing it with the screws provided. For a 2 way intersection solder the same color wires from the 2 signals to the TCU Dir. #1. For a 4 way intersection solder the one pair of signals to DIR #1 and the second set to Dir. #2. Use shrink wrap tubing at solder joints.

Use a 12 volt DC power supply to power the TCU.