

TRAINTRONICS Colour-Light Signals are designed to run from 12VDC. They may be controlled by the Traintronics range of colour-light signal switches, from your own switches or controller, or from a DCC Accessory Decoder.

FITTING TO BASEBOARD

Having located a suitable position for the signal, drill a 1/8 inch (3.2mm) diameter hole through the baseboard, making sure the drill is perfectly upright.

From above, carefully feed the lead wires of the signal through the hole in the baseboard, see figure 1. Insert the signal post into the hole and push it gently in until the base makes contact with the baseboard, taking care not to snag the lead wires.

The signal is equipped with thin connecting leads, and an adaptor PCB is provided to enable normal wires to be connected to the signal.

Position the adaptor PCB under the baseboard near the signal, so that the lead wires from the signal will easily reach the adaptor PCB, see figure 3.

Mark through the two adaptor PCB fixing holes into the baseboard.

Using a drill or bradawl make two small holes to accommodate the fixing screws.

Fit the adaptor PCB to the underside of the baseboard using the supplied screws, ensuring that the two spacer rings are positioned between the adaptor PCB and the baseboard.

CONNECTION INFORMATION

Connect the wires from the signal to the terminal block labelled "TO SIGNAL" on the PCB. Refer to figure 4 and the markings on the PCB and check that the right colour wires are in the correct positions. Using a small screwdriver, open the terminals and insert the wires. Make sure the wires are firmly gripped when the terminal has been tightened.

Connect the wires from your signal controller or switch to the "FROM SUPPLY" terminal block.

Secure all wiring neatly under the baseboard so that it will not get snagged or damaged.

ROUTE INDICATOR

A signal with route indicator is used in advance of a set of points. The route indicator lights if the signal is showing yellow or green and the points are set for the divergence (curved direction).

The Route Indicator needs a 12V supply which is on when the points are set to the divergence. This can be achieved automatically by using a point motor which has built-in contacts such as Gaugemaster PM4 or Tortoise, or a microswitch can be fixed near the point so that it is operated when the point is moved. According to prototype practice, the Adaptor PCB will only light the route indicator when a proceed signal is showing.

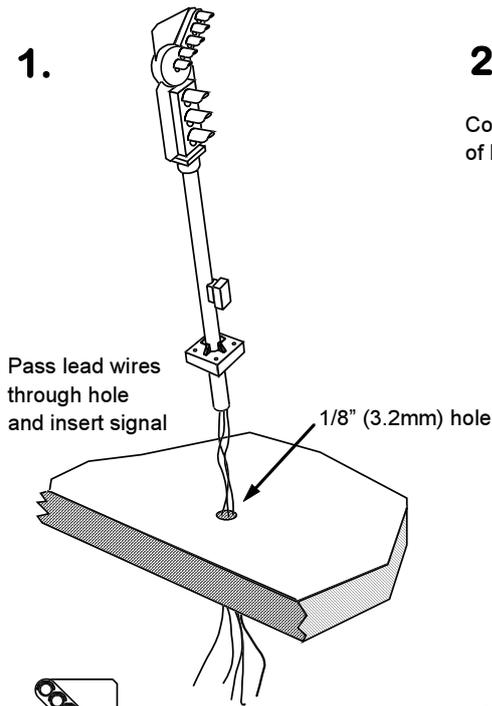
TESTING

Operate the signal using your switch or controller, and check each aspect lights in the correct order. On double yellow signals the yellow wires may need to be swapped over. If the route indicator lights when the green aspect should be showing, the two green wires may be swapped over.

If one or more aspects do not light, double-check the connections. The signal lead wires are very thin and you may need to reposition them in the orange terminal block.

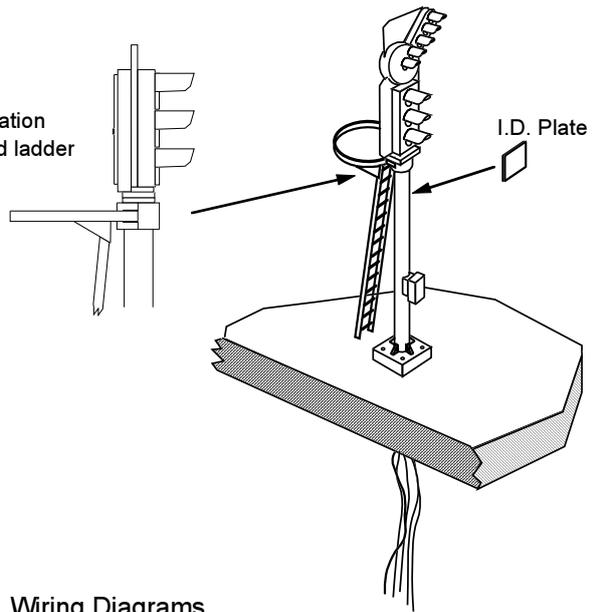
Also check the polarity of your supply. The signals themselves are protected against most kinds of wiring faults so they should work once any problems have been corrected.

1.

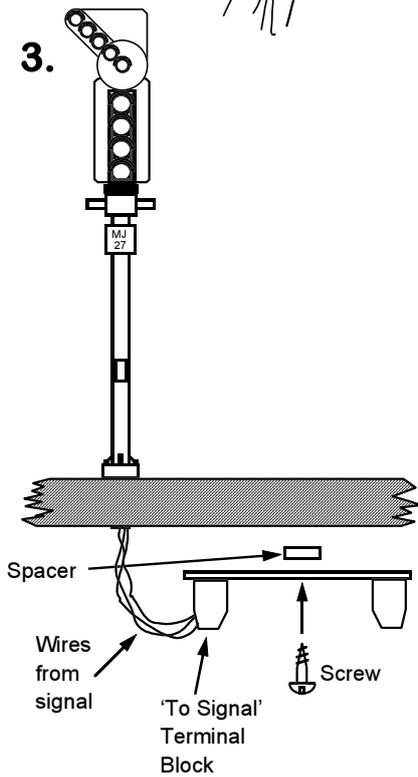


2.

Correct location of hoop and ladder

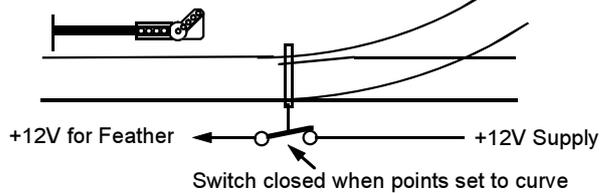


3.



4. Wiring Diagrams

Circuit to operate Route Indicator



2 Aspect			
Wires from Switch or Controller	Wires from Signal		
<ul style="list-style-type: none"> No connection +12V for Green No connection +12V for Red +12V for Feather 0V 	<ul style="list-style-type: none"> No connection Shorter Red wire for Red Aspect No connection Shorter Green wire for Grn Aspect Long Red wire for Feather Blue and longer Green wire 		
<table border="1" style="margin: auto;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">FROM SUPPLY</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TO SIGNAL</td> </tr> </table>		FROM SUPPLY	TO SIGNAL
FROM SUPPLY	TO SIGNAL		
3 Aspect			
Wires from Switch or Controller	Wires from Signal		
<ul style="list-style-type: none"> No connection +12V for Green +12V for Yellow +12V for Red +12V for Feather 0V 	<ul style="list-style-type: none"> Yellow Red wire for Red Aspect No connection Shorter Green wire for Grn Aspect Long Red wire for Feather Blue and longer Green wire 		
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FROM SUPPLY	TO SIGNAL		
4 Aspect			
Wires from Switch or Controller	Wires from Signal		
<ul style="list-style-type: none"> +12V for Yellow 2 +12V for Green +12V for Yellow 1 +12V for Red +12V for Feather 0V 	<ul style="list-style-type: none"> Yellow 1 Red wire for Red Aspect Yellow 2 Shorter Green wire for Grn Aspect Long Red wire for Feather Blue and longer Green wire 		
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