

## 2. Hole covers

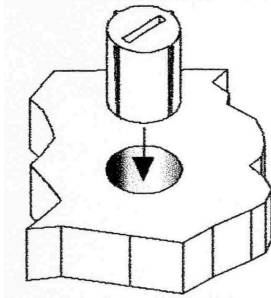
Drill a hole (10 or 12 mm) in the layout board using the template.

Push the correct cover into place and make sure it is flush with the top of the layout board.

Attention: Make sure the slot is in line with the movement of the throw rod.

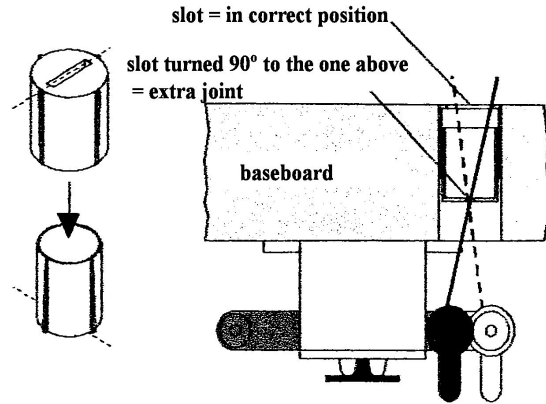
Place the turnout.

Place the point motor.



## 3. Alternatives

If you combine two covers with the slots at a 90 degree angle of each other you create an extra joint for the movement (useful for thick layout boards to preserve the right amount of movement and/or the correct pressure).



Accessory switch for point machine

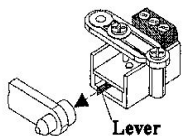
Assembly instructions

On the accessory free side of the point motor remove the retaining screw.

The mounting plate for the switch is placed on the switch in such way that the lever faces towards the traversing rack.

Install the switch on the point machine.

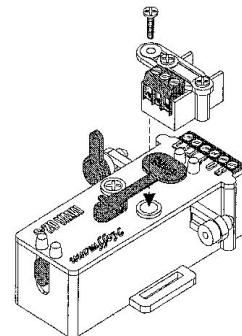
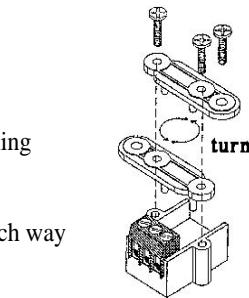
Important:



The lever must be placed in the hole on the traversing rack.

Install point machine as per instructions.

The switch is rated for 24 V and 4 A.



# FINNEY AND SMITH

21 BELLOTT DRIVE

CORSHAM

WILTSHIRE

SN13 9UQ

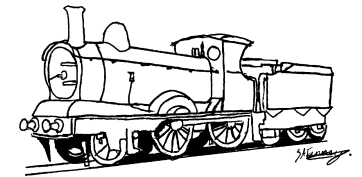
TEL: 01249 714085

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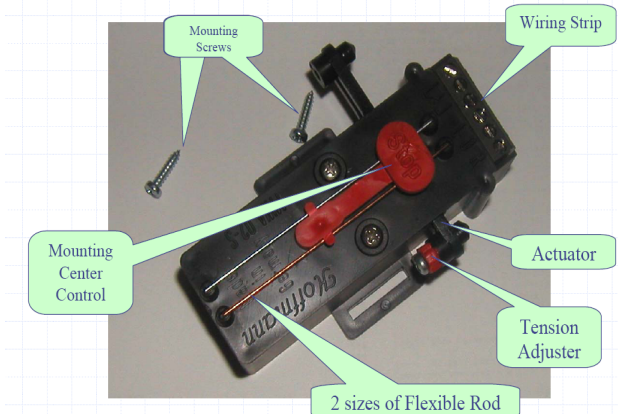
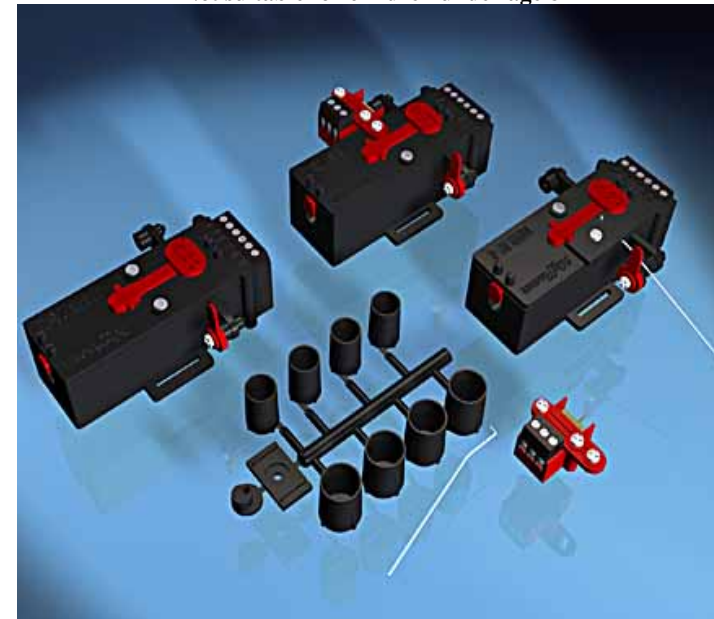
Web site: [www.finneyandsmith.co.uk](http://www.finneyandsmith.co.uk)

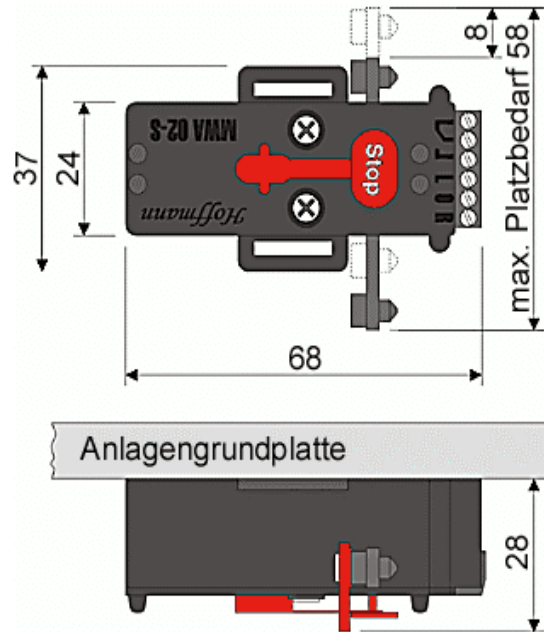
PROPRIETORS - DAVE FINNEY, NICK SMITH & MIKE CORP



**English Language and supplementary instructions for Hoffman MWA02 slow action point machine.**

**Not suitable for children under age 8**

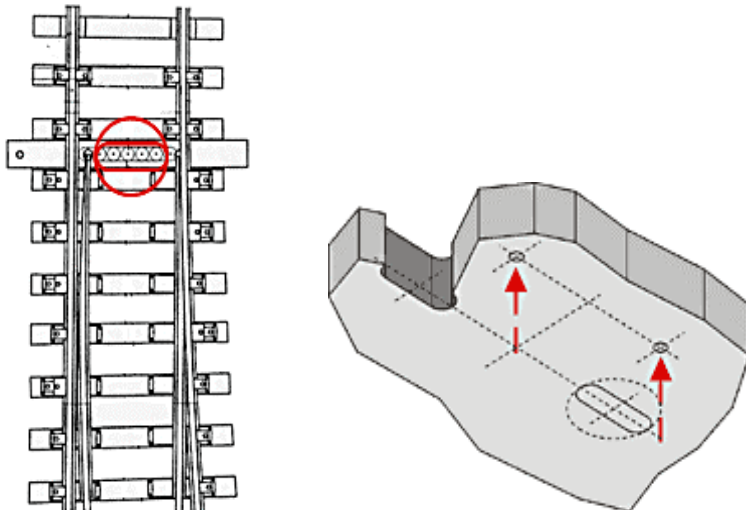




**Installation Of The Switchmachine MWA02-S**

**Preparation of the Layout Board**

First, mark the center position of the turnout tie bar. At this location, drill a 12mm hole or a corresponding long slot. Using the template provided, mark the mounting holes from underneath the layout. Hole for flexible rod, left or right, depending on space conditions. Instead of long slots, round holes of 12mm (1/2") may also be used.



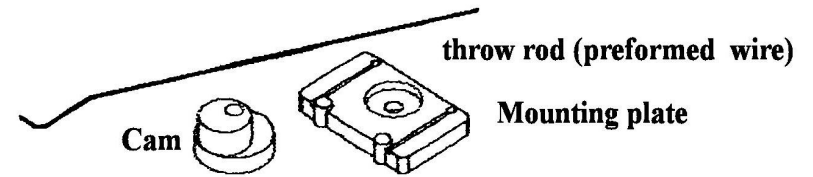
Accessory/Conversion kit for Hoffmann point motor

Contents: 1 Conversion kit for Signals, 8 hole covers

The conversion kit changes the direction of movement of the MWA 02-s point motor to become vertical for use with signals etc. All necessary parts including a preformed wire for the throw rod are present. The slotted covers fit in the hole between the point motor and the tie bar. There are eight covers with different size slots in them.

1. Signal operation

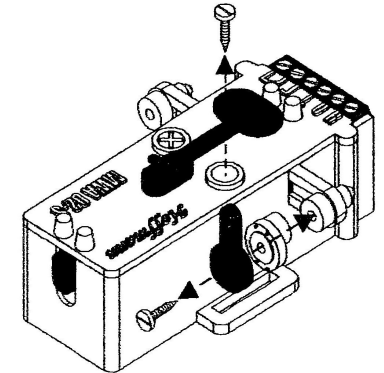
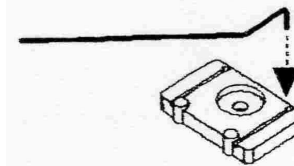
Separate the necessary parts from the sprue.



Remove one retaining screw from the point motor housing and the screw retaining the point actuation lever.

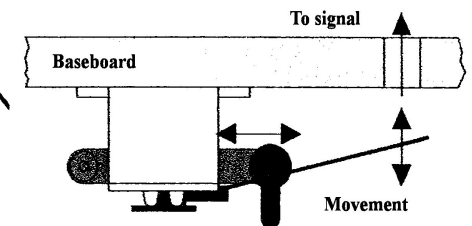
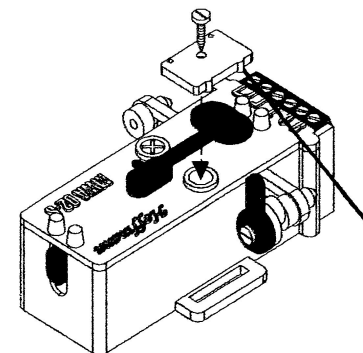
Position the cam between the actuation lever and the traversing rack and fasten with screw.

Place the throw rod (preformed wire) in the correct slot on the mounting plate.

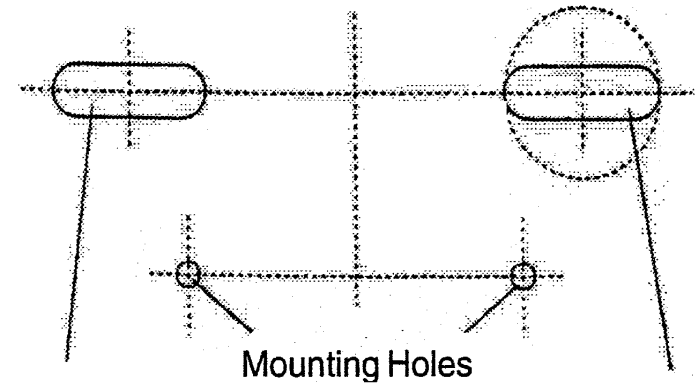
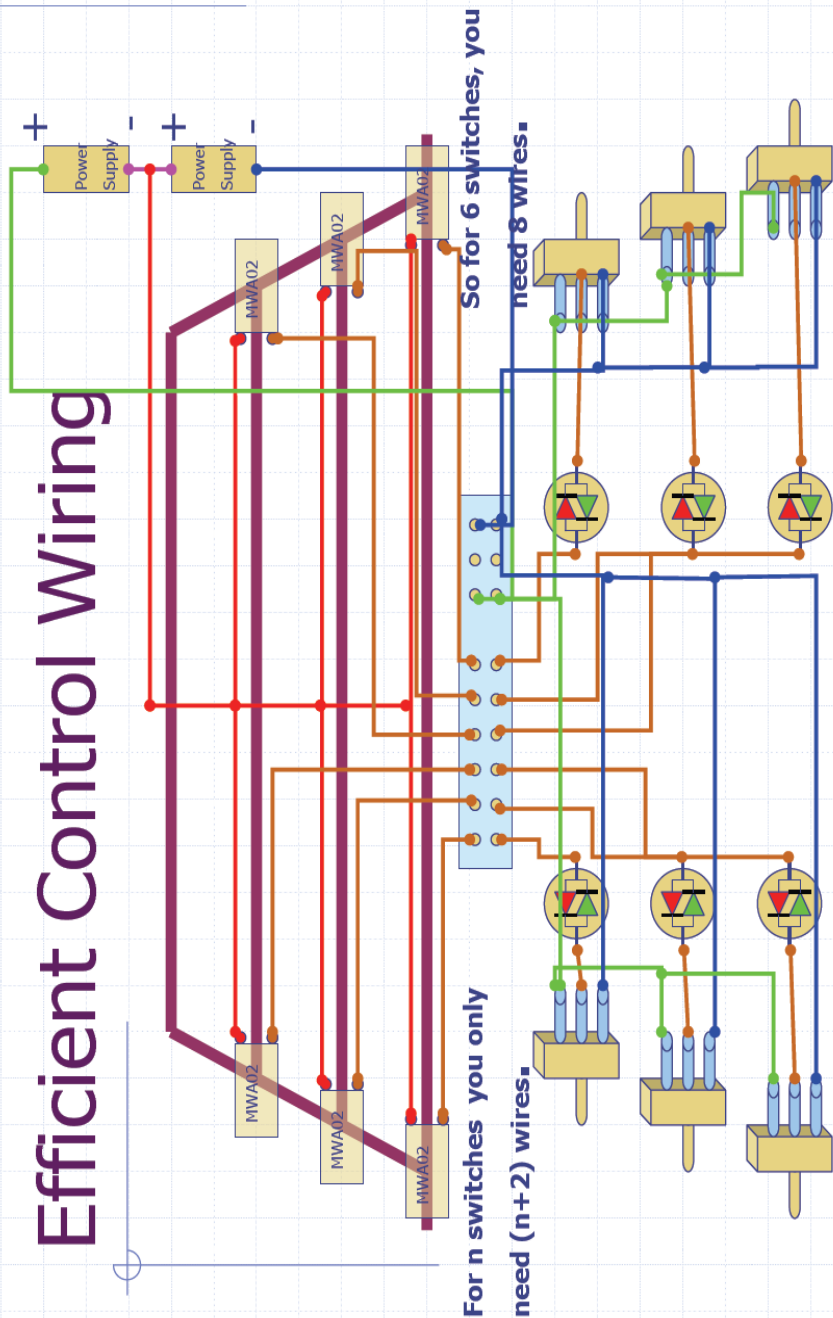


Fasten down with screw and position the wire over the cam.

Connect the signal push rod to the throw rod and adjust for correct operation.



# Efficient Control Wiring



## 2. Preparation of the Switch Machine

As delivered, there are two flexible throw rods attached to the cover of the mechanism. These should be removed first.

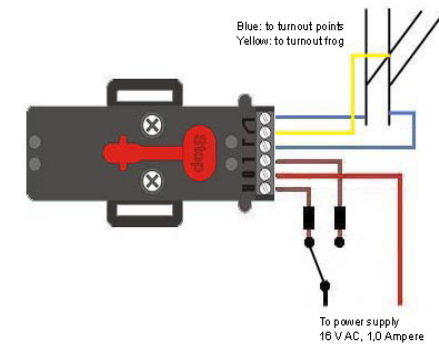
## 3. Attaching the Throw Rod

Depending on the existing conditions (thickness of the layout plate, desired throw pressure; etc.) select the thicker-or thinner rod and attach it to the traversing rack, using the screws provided. For JHM-switches the use of the thinner throw rod (0.5 mm) is recommended.

## 4. Final Mounting

The assembled switch machine may now be fastened under the layout plate. The adjustment lever may be used to achieve small adjustments. In addition, by using the red lever on top of the housing, it is easy to establish the center position of the rack. Since the traversing rack may be moved by hand, pressing the red lever on the housing makes it possible to locate the center position of the rack. This makes an exact adjustment of the flexible rod possible. It is important that there is no obstruction to prevent the traversing rack from traveling to its full extent in both directions, in order to activate the automatic shut-off and permit reverse operation.

## 5. Wiring

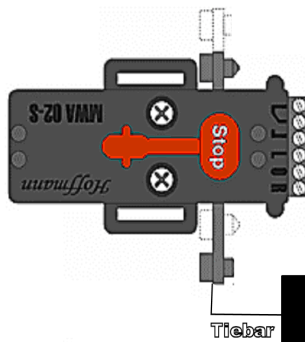


Operating Voltage: Brown to Turnout Controls, Red to Power Pack (16 Volts AC, 1 Ampere). Polarization of the Turnout: Yellow to the Turnout Frog, Blue to the Turnout

Points. Since the switch machine includes an automatic shut-off device, it is possible to use either push buttons or toggle switches to operate the machine.

### Alternative Mounting

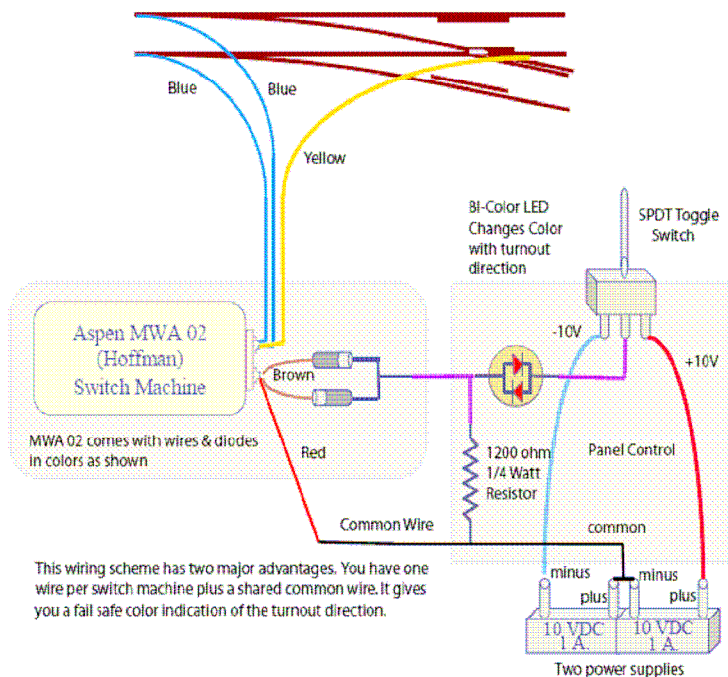
If you mount your points with a tiebar under the baseboard you will need an alternative way of connecting the point machine. A way I have found that works is to bend a 90-degree angle in the wire and connect as shown below.



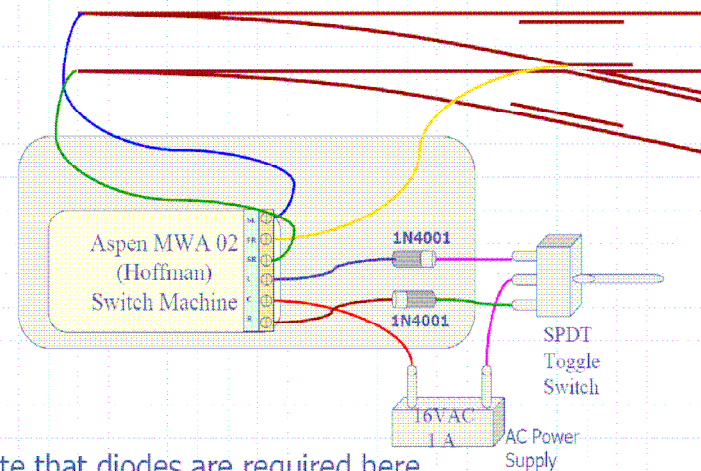
### 6. Speed Control

The small red button on the end of the point machine is a means of slowing the motor if desired by friction on the end of the motor shaft.

### Hoffman Switch Machine Wiring Tip Minimize Wires with LED Direction Indication



## Wiring Diagram – AC



## Wiring Diagram – DC

