



# GAUGEMASTER



## GMC-PM10 Classic Solenoid Point Motor

### INTRODUCTION:

This Point Motor has been created to work with the leading brands of track in the United Kingdom. Designed with easy installation in mind, it has a built-in reversible mounting plate (with adjustment slots and holes), robust, plated metalwork and fibreglass PCBs for longer life. The PM10's magnetic coils are high-efficiency for reliable operation, needing much less current than other brands. PM10 also has easy to use "solder-free" screw terminals. We have included mounting screws and a throw-bar extension. We even supply a handy screwdriver with this 5-pack.

### FITTING A MOTOR DIRECTLY TO YOUR POINTS:

First, cut a hole in your baseboard to accommodate the motor (around 40mm x 30mm should suffice) before clipping your motor to the tiebar. If you are fitting the solenoid to OO/HO points, you will need to bend the centre tabs before doing so. Use appropriate pliers to bend the point motor legs & later, to twist the tab ends to hold the motor in position. After fitting, please ensure that it is unobstructed and works in both directions in a positive manner. (N Scale modellers will need to use only the centre and one pair of end tabs).

### FITTING A MOTOR TO THE UNDERSIDE OF A BASEBOARD:

First, make a 10mm slot or make a 10mm paper-covered drill hole. Use the enclosed extension pin to connect to your motor (cutting off the excess as appropriate) Do not forget to allow for both the thickness of your baseboard and any cork, foam or Gaugemaster Ballasted Underlay. Once you are certain that the tiebar moves freely in both directions, you can screw the motor to the underside of your baseboard using the enclosed self tapping screws.

### APPLYING POWER:

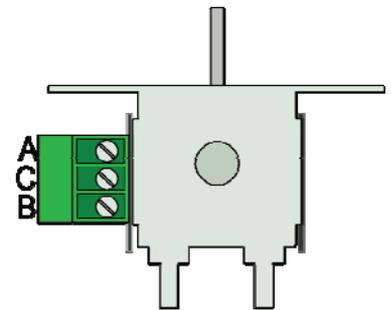
This product is for low voltage use between 16 and 24v (AC or DC are both OK). Please use a 1amp supply or greater. Ideally also use a Capacitor Discharge Unit such as the GMC-CDU or similar for optimum performance. As with all solenoids, this motor is designed for use with passing contact switches such as the GM510 Miniature Toggle Switch. Please remember these motors only require a short burst or pulse of power. Connection to a standard On-On switch (or a permanent connection or power source) will lead to irreversible damage.

### WIRING YOUR PM 10 POINT MOTOR:

PM10 connection needs no soldering. It is made easy with the three way terminal block that is located directly on the motor. It is ideally suited for wire from 1mm<sup>2</sup> (for larger layouts) and down to 7/16 - 0.2 gauge wire such as our GM11 or similar where wiring runs are short.

This diagram shows the terminals. They are labelled A/B (coils) and C (common). With polarity not important, connection couldn't be simpler. Simply connect A & B to the Switch left / right output terminals & terminal C to the switch common return or ground circuit.

The PM10 is 100% DCC compatible & can be connected to any suitable accessory or point motor decoder (which will also have 3 terminals as previously described). Always be sure to refer to the DCC accessory decoder manual for the best results.



### USEFUL COMPLIMENTARY PRODUCTS

<b>GMC-MCDU</b>	Mains Powered Capacitor Discharge Unit
<b>GMC-CDU</b>	Capacitor Discharge Unit
<b>GM10</b>	30m Wire Pack (10m Red, 10m Black, 10m Green)
<b>GM11</b>	10m Wire (available in <b>Black, Blue, Brown, Green, Grey, Orange, Pink, Purple, Red, White, Yellow</b> )
<b>BPGM11</b>	100m Wire (available in <b>Black, Blue, Brown, Green, Grey, Orange, Pink, Purple, Red, White, Yellow</b> )
<b>GM510</b>	SPDT Momentary Toggle Switch for Point Motors
<b>BPGM510</b>	SPDT Momentary Toggle Switch for Point Motors (25 Pack)

This product is not a toy and is not recommended for children under the age of 14 unless supervised by an adult.

For low voltage use only. Made in China.

Ask your local dealer about the full range of **GAUGEMASTER** products which include Analogue Model Railway Controllers, DCC Model Railway Controllers, Point Control Products, Scenic Accessories, Electrical Items, Tools, Track and Plastic Construction Kits.

## GAUGEMASTER Controls Ltd

Gaugemaster House, Ford Road, Arundel, West Sussex, BN18 0BN, United Kingdom

T: +44 (0) 1903 884 321

F: +44 (0) 1903 884 377

E: sales@gaugemaster.co.uk

# www.gaugemaster.com