

WARRANTY

Bridgewater provides technical support free of charge, regardless of how long you have had your controller. Sometimes an issue can be fixed over the phone, saving the cost of shipping and getting your railroad running faster.

Parts and labor are warranted for a period of 5 years. If your Bridgewater Product requires repair, ship it back to Bridgewater. We will repair or replace it and return it to you. If your warranty has expired, or is not registered, there will be a charge for repair and shipping.

Return Freight Policy: Customer is responsible for return freight; you will be advised the amount when your unit is ready for return.

Warranty does not cover repairs to damage caused by misuse or abuse. Please do not leave this product outdoors: unplug the quick disconnect plugs and bring it indoors when it is not in use.

Be sure to keep the packaging just in case your unit ever does need to be returned for service. Some of our products are very heavy, and the special packaging is designed specifically to protect the internal parts and cosmetics of the product.

Please take a moment to fill out the Warranty card in the box or online at Bridgewater.com and return it to us.

Thank you.

BRIDGEWERKS

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Mini Mag 3

User Manual



Family Owned and Operated since 1995

Track Power Connection

On the rear of the Mini Mag there is a pair of connectors used to connect the power to the track. If your train is on the track facing forward and you connect the red terminal to the right rail and the black terminal to the left rail, the train will go forward when the forward/reverse switch is in the forward position. If the engine moves backwards, swap the track wires. Attach the wire to the terminal. If the plastic insulation on the wire has not been removed, strip about 1/4" of the insulation off to expose the bare metal part of the wire.

Speed Control

The Mini-Mag has a slide controller to adjust the engine speed. There is an LED which will increase in brightness as the speed is increased, and will change color to red if the direction control switch is switched to reverse.

Speed Governor:

Bridgewater's exclusive "speed-stop" can be used as a safety device to limit the maximum speed of your trains. The speed stop consists of a metal plate which is held in place with a thumb screw. To adjust the speed stop, loosen the thumb screw, adjust the throttle slide control so that the train is going as fast as you want to allow, and then slide the speed stop down to limit the maximum speed. Tighten the thumb screw. Now you can move the throttle control from 0 up to the maximum selected speed.

Momentum

The Mini-Mag features an adjustable momentum control which will limit the acceleration and deceleration of the trains. When momentum is at maximum and you move the throttle from the minimum to the maximum, the train will slowly accelerate from a stop to the maximum speed. Similarly if the throttle is moved quickly from maximum to 0, the train will slowly decelerate to a stop. Momentum adds another dimension of realism to your model railroad. In addition, the combination of speed governor and momentum makes it easier to limit derailments when younger engineers are at the controls.

Direction Control

The Mini-Mag has a direction control switch which will change the direction of the locomotive. If the locomotive runs backwards when the switch is in the forward position, reverse the connections going to the track.

Overload Protection

In the event of an overload, the Mini-Mag has two different ways of protecting itself and your train from damage: A manual circuit breaker is on the left side of the rear panel. The button will pop out and the power to the track will be cut off. If this happens, correct whatever caused the overload, wait 2 or 3 minutes and then push the switch to reset it.

In addition, there is an automatic thermal cutoff inside the controller which will be activated in the event of an overload. This will reset itself automatically in 2-3 minutes after the cause of the overload is removed. There is a red light on the front of the controller which will illuminate if the internal thermal cutoff has been activated.

Outdoor operation

Garden railways are often installed outdoors and Bridgewater controllers are built to be used with outdoor railroad layouts. However, they are not waterproof, and as with any electronic equipment, **they should not be left outdoors when not in use.** To make this easy, the connections are all made so that they can simply be unplugged and the controller can be carried indoors.

