MG trigger replacement board for MG5E, MG2E and MGH1

The trigger board is a direct replacement for the factory MG board.

Features overview:

Auto Shut-Off

Never worry about draining your battery again! Our Trigger Board automatically shuts off after 30 minutes of inactivity, safeguarding your battery life and giving you peace of mind.

Ultra-Low Power Consumption

Say goodbye to frequent battery changes. Our Trigger Board consumes 20 times less power than conventional factory boards, dramatically extending the battery lifespan so you can focus on what matters most.

Low Battery Indicator

Keep track of your power levels with our intuitive low battery indicator. This feature alerts you when it's time to replace your battery, so you're never caught off guard.

Adjustable Reactivation Periods

Customize your experience with three adjustable reactivation periods. Whether you need rapid response or more relaxed settings, our board accommodates your specific needs.

Trigger Contact Noise Filtering

Reduce the chances of accidental firing with our advanced trigger contact noise filtering technology. This feature minimizes false triggers, ensuring greater safety and accuracy during use.

MG electronic trigger board replacement installation.

Installing Your New Board in 6 Simple Steps:

Step 1: Remove battery. Always remove battery when installing or remove the board.

Step 2: Remove the two screws that are currently holding the original board in place.

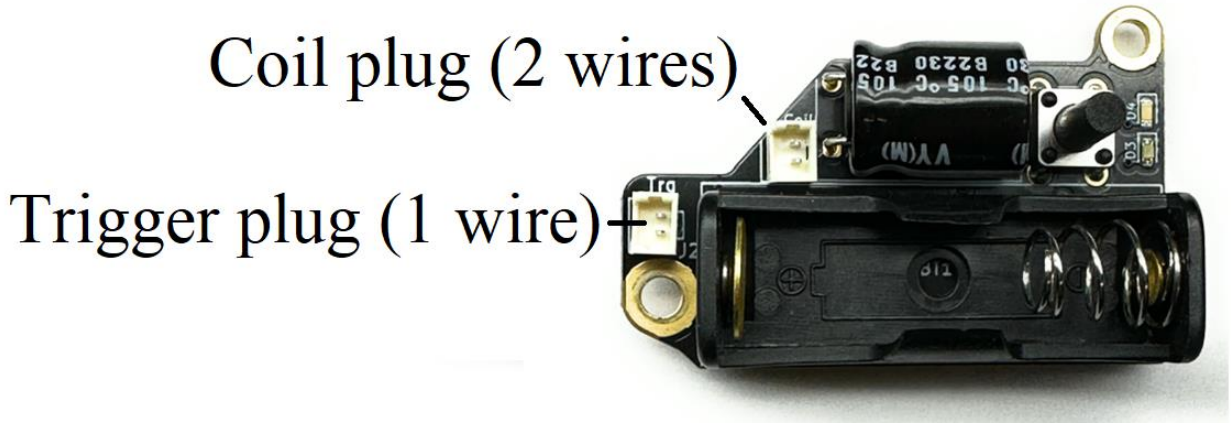
Step 3: Gently extract the board from its original position.

Step 4: Using small tweezers, carefully disconnect the two plugs from the original board. Remember, the plug with two wires is designated for the firing solenoid, while the single-wire plug is intended for the trigger. It’s important to avoid unplugging by tugging on the wires directly.

Step 5: Attach the coil and trigger plugs to the new board. It's important to note that the plug orientations are reversed compared to the original board. Refer to the picture below for guidance.

Step 6: Slide the new board back into position and securely fasten it using the screws. Avoid pinching the wires.

Step 7: Finally, insert the battery to complete the installation.



Board operation

- Power on: push on the power button until you see blue LED light up.
- Power off: push on the power button until you see red LED light up. (Power off is not necessary as the board has automatic shut off feature).
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Low battery indicator

The trigger board is equipped with a handy feature that lets you know when the battery is running low. When the battery level is low, both the red and blue LEDs will intermittently blink when you power on the board.

Reactivation period Feature

What is the Reactivation Period?

The Reactivation Period is a built-in safety and efficiency feature that sets the duration of time the trigger must be released before the next shot can take place. This function is designed to:

- Eliminate unnecessary firing of the solenoid, thus conserving battery life.
- Reduce the chances of accidental firing.

Reactivation Period Options

You have the flexibility to choose between three different Reactivation Periods:

- Long Duration (3 Blinks): Ideal for slow rate firing competitions such as Free Pistol.
- Medium Duration (2 Blinks): Suitable for moderately paced competitions.
- Short Duration (1 Blink): Designed for fast-paced competitions like Rapid Pistol or Bullseye.

How to Change the Reactivation Period

Changing the Reactivation Period is simple and straightforward. Please follow the steps below:

- Power Off: Make sure the board is powered off.
- Initial Power On: Press and hold the power button to turn the board on. Continue holding until the blue LED goes off.
- Select Duration: Activate the trigger to cycle through the reactivation periods. Set te desired period.
- Power Off: Finally, power off the board to save your selected reactivation period settings.

Firmware version

The Trigger Board is built around a sophisticated microcontroller that is programmed with firmware to manage its various functionalities. It's crucial to know your current firmware version for troubleshooting or during communication with support staff.

Steps to Check Firmware Version

Checking the firmware version is a simple process. Just follow the steps below:

- Power On the Board: While holding the trigger, power on the board.
- Firmware Version Indicator: Upon powering up, the LED will flash a series of blue/red blinks. The number of flashes (x) corresponds to the current firmware version number installed on the board.

For example, if the LED flashes 4 times, your board is running on firmware version 4.

Troubleshooting

Issue 1: Solenoid Not Activating When Trigger is Pushed

Symptom: Trigger is pushed, but the solenoid does not activate.

Diagnostic: Power on the board. If you see the board flashing red/blue light, indicating the current firmware version, then the issue likely resides with disconnected trigger contacts.

Solution:

Check Trigger Contacts: Examine the wiring coming from the trigger contacts and ensure it is securely connected to the board.

Check Trigger Travel: Make sure the trigger travel distance is sufficient for the contacts to engage properly.

Check Holding Screws: The board is electrically connected to the pistol frame via screws. Make sure these holding screws are securely fastened.

Issue 2: Intermittent Solenoid Activation

Symptom: The board solenoid usually activates, but occasionally it does not.

Diagnostic: With the board powered on, a red LED should flash every second. If the red LED is constantly lit, this suggests that the board is detecting open trigger contacts.

Solution:

Check Status Indicator: Make sure the red LED is flashing every second when the board is powered on.

Check Trigger Travel and Wiring: Examine the trigger travel distance and the wiring leading to the board to ensure everything is as it should be.

Check Holding Screws: As in Issue 1, make sure the holding screws that electrically connect the board to the pistol frame are securely fastened.

Installation video

We hope this troubleshooting guide is helpful in resolving any issues you encounter. If problems persist, please consult other sections of this manual or reach out to our customer support team for further assistance.

timersshop@gmail.com