Clicker V2 PRO

Installation manual

Clicker V2 PRO is an accessory designed for use with Perun drop-in devices for V2 gearboxes like Perun V2 Hybrid or Perun HPA Trigger Board V2. It introduces up to 3 kg (6 lbs) break to the trigger action, which needs to be overcome to fire a shot, similar to how the trigger works in a real firearm. Clicker V2 PRO is meant for realism enthusiasts, and everybody else who wants a tactile feel on the trigger. It can be adjusted in five different ways, to best replicate a real firearm or simply suit your personal preference. In new Clicker V2 PRO, mechanical safety is retained.

Reading this manual will help you fully exploit this product's potential and in case of encountering any problems, you can look for solutions to them here.

Manufacturer:
Perun Tech Sp. z o. o.
Barwicka 8 St.
60-192 Poznań, Poland
e-mail: info@perunairsoft.pl

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1. Compatibility

Clicker V2 PRO works with all Perun V2 drop-in devices, like Hybrid V2 or HPA Trigger Board V2, and following gearbox shells and triggers:

Gearbox shells (Tokyo Marui-standard): A&K, Bolt, Classic Army, CYMA, DE, King Arms, Krytac, G&G, G&P, Mancraft, P&J, Retro Arms, Specna Arms, SRC, VFC. Clicker fits into KWA 2GX gearbox, but that combination has shown to be problematic and may not work correctly unless modified. To use it in some SHS CNC shells, either Clicker or the right (upper) half of the shell has to be ground down in certain area.

Triggers: all standard V2 triggers, those for AR-15, G3, SCAR, MP5 replicas, etc.

We cannot guarantee, that all products from these manufacturers will always work properly with the Clicker V2 PRO, because of changes made to the parts over time. This list also does not mean, that Clicker V2 PRO will not work with gearbox shells and triggers made by other manufacturers. We just did not have the chance to test it.

With Clicker installed, the two-stage trigger functionality is no longer available!

2. Warranty and liability limitations

Warranty

We offer a 24-month warranty on this product from the date of retail purchase. This warranty covers defects in materials or workmanship under normal use conditions. The warranty does not cover:

- Damage caused by improper installation, misuse, or neglect.
- Any alterations, modifications, or repairs made by unauthorized persons or third-party services.
- Damage resulting from the use of third-party components or accessories not approved by the manufacturer.
- Wear and tear due to regular use or external factors such as extreme conditions.
- Any incidental, consequential, or punitive damages, including damage to the airsoft replica or any other parts such as the gearbox, motor, or batteries, arising from improper use of the trigger unit.

Claims Process

To submit a warranty claim, contact our customer service team at info@perunairsoft.pl with a detailed description of the defect. If your claim is approved, we will repair or replace the unit at our discretion. This warranty does not cover shipping costs for returning the product. This warranty gives you specific legal rights, and you may have other rights which vary depending on your region.

Limitation of Liability

The manufacturer and its affiliates are not liable for any personal injury, damage, or loss of property arising from:

- Improper installation or use of this product.
- Failure to follow the instructions provided in this manual.
- Use of the product in a manner not intended or recommended by the manufacturer.

3. How does it work?

Clicker V2 PRO uses a magnet and a lever to simulate the “wall” or the “break”, a method which reduces possible wear on the parts. When the trigger is being pulled, it detaches a metal part from a magnet, which are in contact when at rest. Because the force of the magnetic field diminishes very fast with the distance, this results with a relatively crisp break. The force of the break is increased by use of a lever. Release of the trigger results with an audible reset, when the metal part gets very close to the magnet and instantly attaches to it.

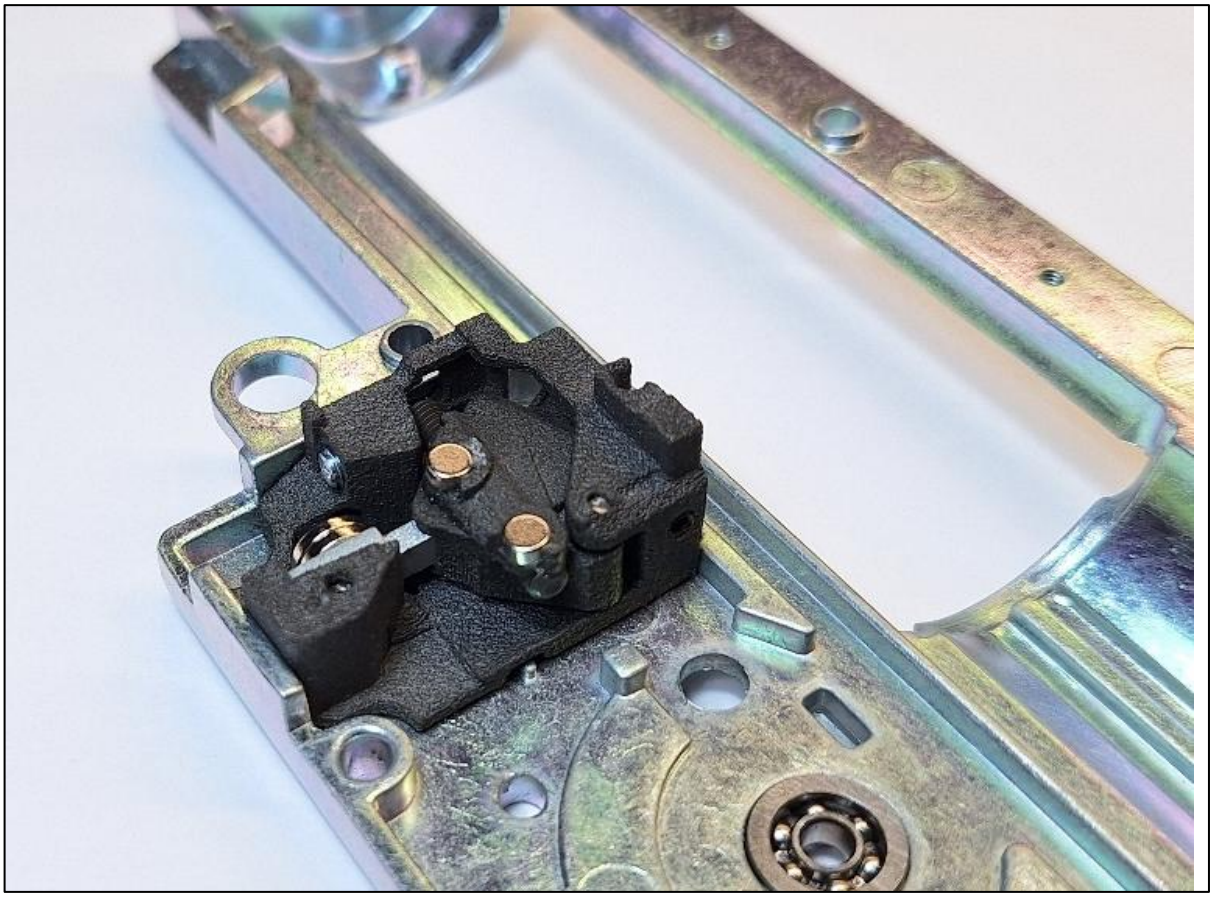
Clicker V2 PRO already has a magnet needed by the mosfet to detect the trigger movement, so the original Hybrid magnet holder has to be removed.

Clicker V2 PRO’s lever has a piece that is meant to engage with replica’s mechanical trigger lock, increasing realism thanks to additional mechanical safety.

4. Installation and adjustment

4.1. Installation

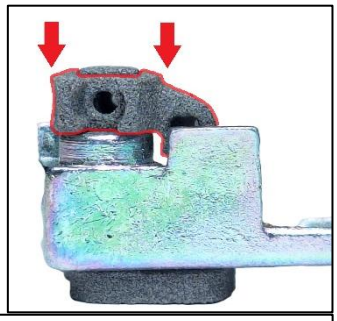
To install the main body of Clicker V2 PRO, insert it into the right (upper) half of the shell, as shown on the photo. In most cases Clicker will stay in place thanks to press fit. If that is not the case, you can leave the Clicker in the left (lower) half.



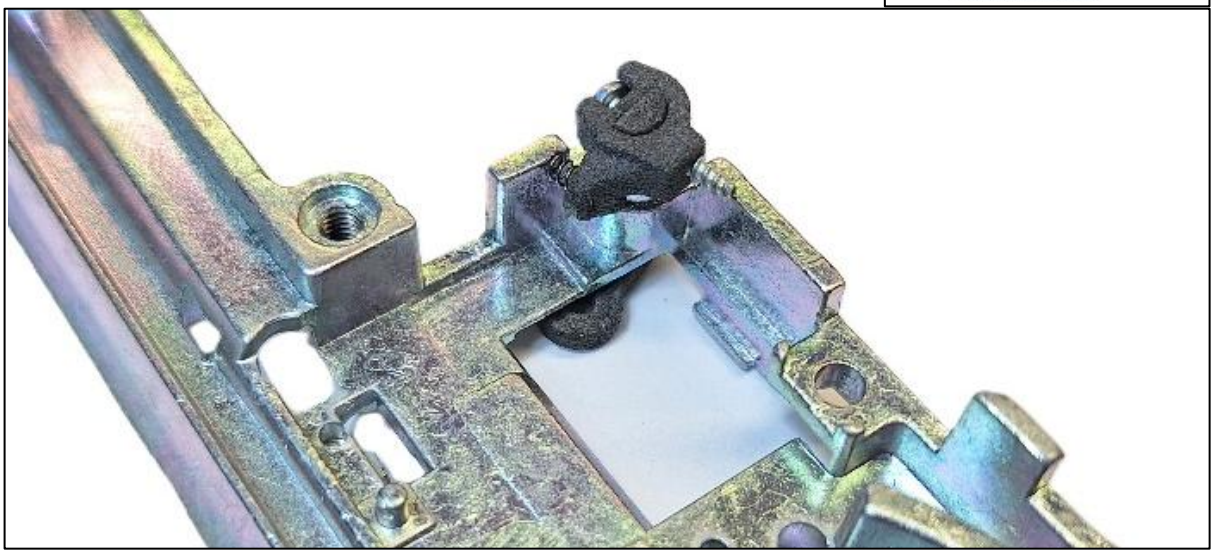
Clicker V2 PRO comes with its own mechanical trigger lock. The main part of the lock has to fit well into the shell's corresponding hole, therefore 6 pieces with varying dimensions are provided, where 1 is the thinnest and 6 is the thickest. Choose the one, which will be the most stable inside the hole, while at the same time allowing the return spring to disengage the lock when the selector is not set to "SAFE".

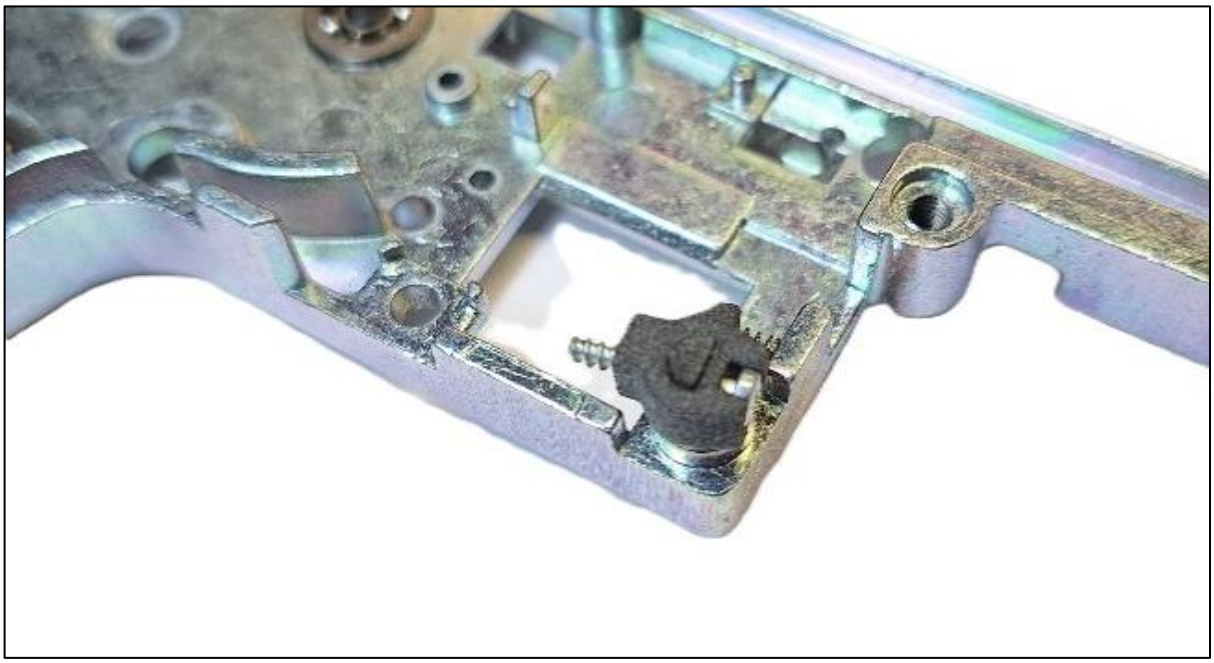
⚠ *To accommodate various gearbox shells and selector plates, the main part of the lock purposefully made too long in the area where it touches the selector plate, and in some replicas it might block the trigger already on SEMI selector position. If needed, grind down or carefully cut the part a bit to adjust it to the replica and selector plate in question.*

Assemble the lock as shown on the photos shown to the right. Force the part that holds the spring downward while pushing the main part up, so that the main part protrudes through it as much as possible and the whole lock has no play around the gearbox hole. This will ensure, that main part will engage the selector plate properly and will not be driven underneath it. Then insert the screw.

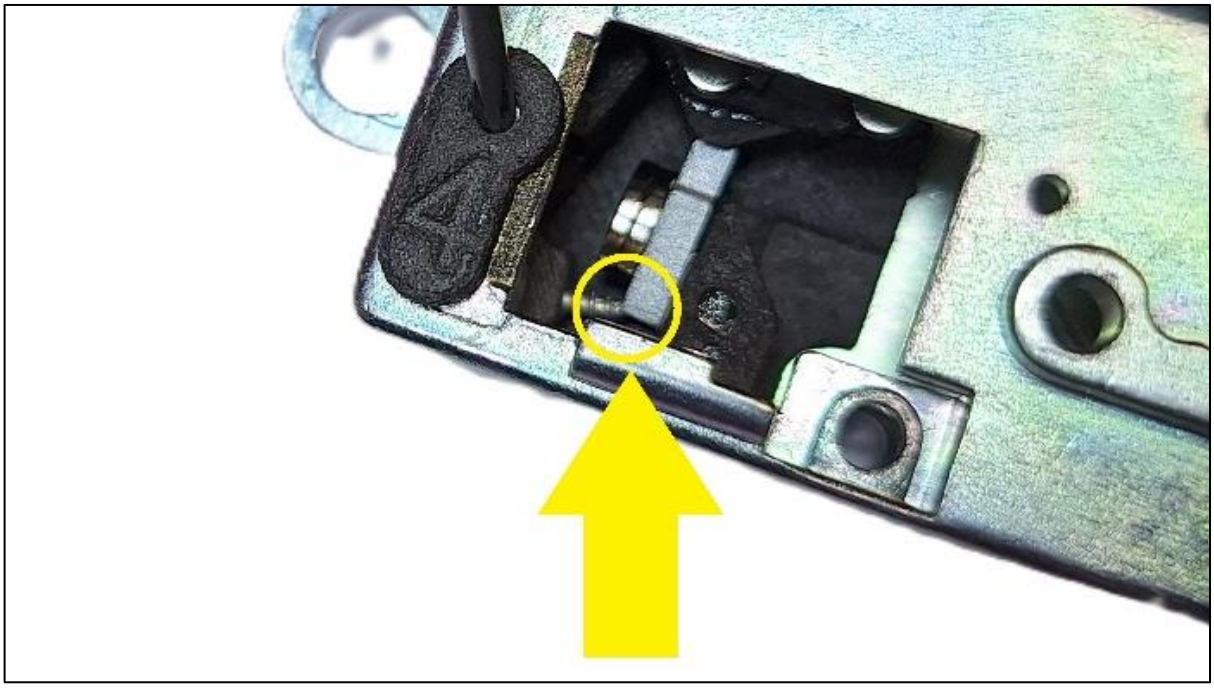


Insert small return spring into the lock.



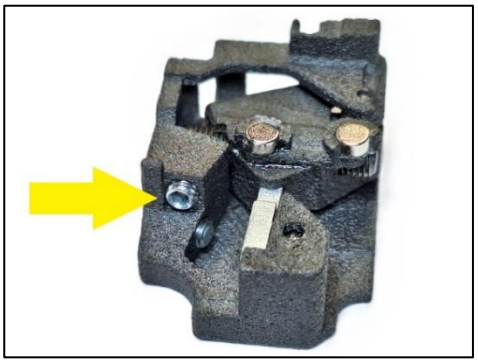


Do not turn the screw all the way in, the head should remain around a millimeter away from the hole. Put the gearbox halves together only with the main body of the Clicker and the lock inside, and while looking through the selector window, adjust the screw so, that while on SAFE the tip of the screw will be touching the metal part of the Clicker, yet it will still be able to engage and disengage freely while



the selector is being switched on and off the SAFE position.

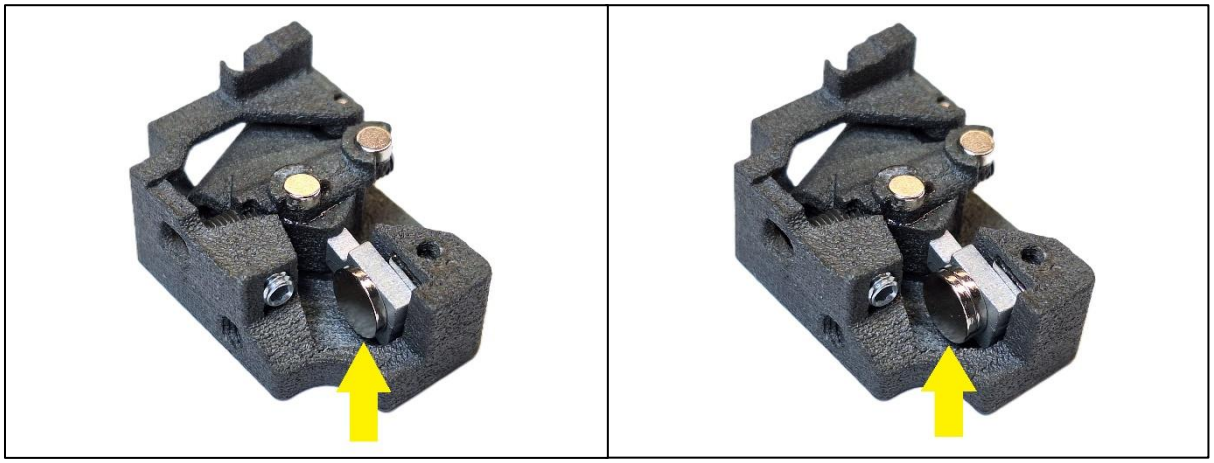
4.2. Break force



To adjust the trigger break force, use the screw shown on the photo. Turning it to the right decreases the trigger pull, while turning it to the left, increases it.

4.3. Additional magnets for increased trigger hardness in replicas with plastic receiver

Trigger hardness can be “boosted” by 6 x 1 mm disk magnets attached to the metal part. Magnets hold to the metal part by themselves and are not prone to falling off due to vibration. Gluing them to the



metal part will decrease their efficiency.

4.4. Pre-travel

Pre-travel is the low-resistance part of the trigger movement, before the wall is encountered. Pre-travel can be adjusted using screw indicated below.

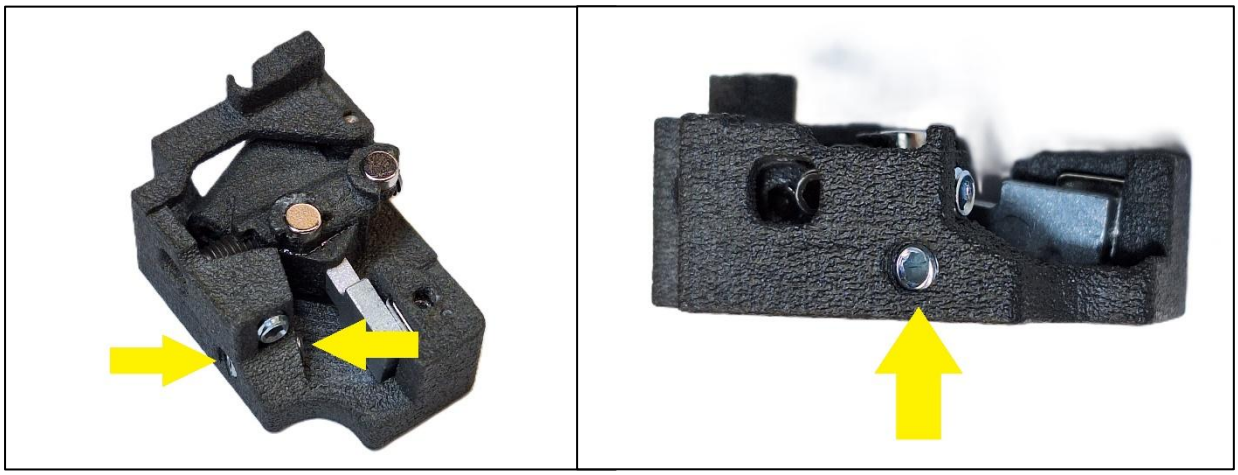
⚠ *If the trigger will be putting pressure on the Clicker when at rest, the break force will be weaker!*

Use of the trigger spring is optional with the Clicker, but if a lot of pre-travel is present, the spring is necessary to keep the trigger from hanging loose. When the break is adjusted to be lighter, the trigger

feel will be much nicer, if the pre-travel will be reduced to zero and trigger spring will be removed.

4.5. Overtravel

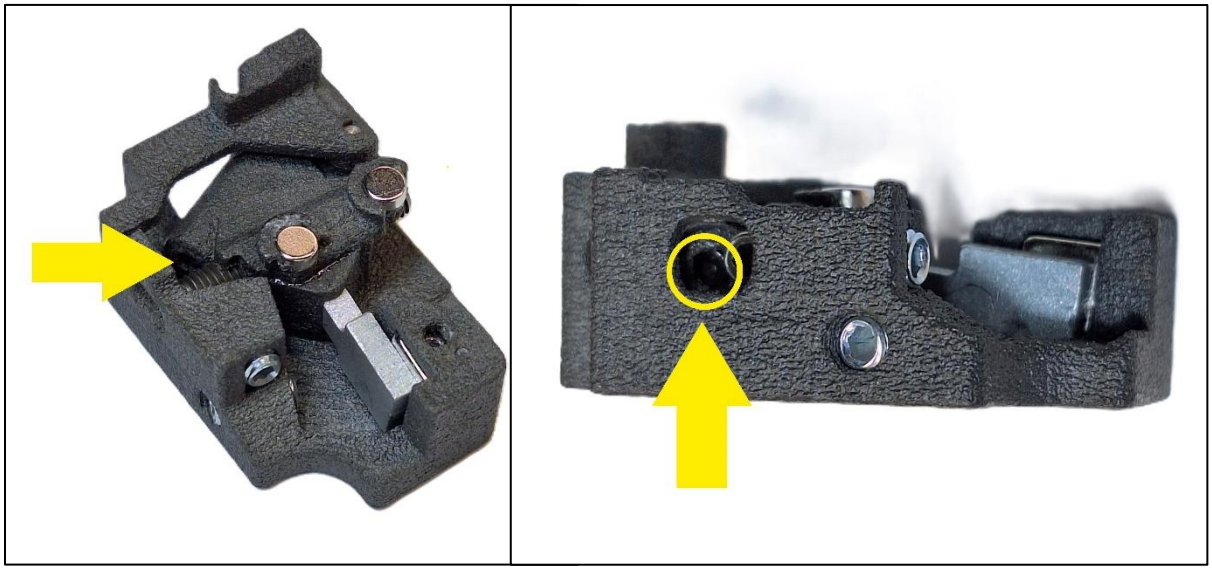
To limit how far the trigger can travel after the break, use screw shown on picture below. The overtravel screw can be removed completely, if situation requires that.



⚠ *Limiting the overtravel too much will cause the trigger not to reset properly, i. e. further shots will not be fired immediately after the trigger resets with an audible click. If the replica does not fire another shot unless the finger is taken completely off the trigger, increase the amount of overtravel.*

4.6. Spring tension

The return spring tension can be adjusted using screw located right next to the pretravel adjustment screw. It affects the force with which the trigger wants to reset after overcoming the wall. Turning the screw to the right applies more tension and turning it to the left introduces less tension.



4.7. Perun drop-in trigger sensitivity setting

Once the Clicker is installed in the gearbox, in most cases Perun's trigger sensitivity should be set to level 4 for both selector positions. In some replicas it might be necessary to lower the sensitivity to level 3 to avoid shots before the trigger break, or to level 5 if very short overtravel is set up.

4.8. Testing before final assembly

We strongly recommend to test the gearbox before full assembly by only putting it into the lower receiver and attaching the pistol grip and the motor to it, while leaving all the rest like the magazine catch and the stock for later, once functionality of the bare lower receiver is confirmed. Setting the Clicker up may in some cases require fine adjustments for it to function exactly as expected, including experimenting with various pre- and overtravel settings, and trigger sensitivity settings for Perun board. A lot of time can be saved by making sure everything works with only Perun board, Clicker, trigger and gears inside, gearbox inside the lower receiver, and motor attached to the shell, yet without all the pneumatic parts and the main spring; before performing the main assembly. That's also the best and fastest way to experiment with the various settings.

The "Switch check" mode of the Perun board may not be enough to make sure, that trigger reacts as it should, because Switch check does not provide precise information about the reset of the board. We recommend attaching the pistol grip with motor inside to the gearbox and lower receiver for more comprehensive testing before final assembly.