



# PERUN

# V2

## USER MANUAL

### 1. General information

**Perun V2** is an electronic circuit replacing traditional, mechanical contacts in version 2 gearboxes. It increases reliability and rate of fire, as well as provides additional functions. An integral part of **Perun V2** is low-resistance wiring replacing regular wires.

**Warranty - 1 year**

**Allowed battery types:**

Li-Po, 2 to 4 cells (7.4V to 14.8V)

NiMH/NiCd, 8 to 10 cells (9.6 to 12V)

Li-Fe, 3 cells (9.9 V)

*ATTENTION! The device must never be run without a fuse.*

**Power consumption while idle:** 1,6mA

*ATTENTION! Do not leave your replica with the battery plugged in for a longer period of time (more than a few days), because of the risk of complete battery discharge (which will permanently damage the battery).*

## 2. Getting ready

Each time you plug the battery in, a short initiation procedure has to be passed:

- 1) Plug the battery in.
  - 2) Set the selector in "AUTO" position.
  - 3) Press and hold the trigger until 2 sound signals are heard.
  - 4) Set the selector in "SEMI" position.
  - 5) Press and hold the trigger until 2 sound signals are heard.
- The device is now ready.

## 3. Programming firing modes

**Perun V2** allows retaining the mechanical trigger lock. Therefore, if selector is set to "SAFE", the replica will always be in safe firing mode (provided that the lock works properly). Both remaining selector positions ("SEMI" and "AUTO") can be programmed for any firing mode independently.

In order to enter the programming mode for a given selector position, quickly switch from that position to the other and back two times.

For example, to set firing mode selector for "SEMI" position, quickly change from "SEMI" to "AUTO", back to "SEMI", again to "AUTO" and finally to "SEMI". Entrance into programming mode is confirmed by a sound signal.

After entering the programming mode, chose the firing mode (while in the programming mode, pressing the trigger will not cause the replica to fire):

- Safe - proceed to saving changes.
- Single shot (semi) - press trigger once.
- 2-5 round burst - press trigger 2-5 times.
- Fully automatic - press trigger 6 times.

The changes are being saved by pressing and holding the trigger for 3 seconds. The saving is confirmed by a triple sound signal. Settings will be kept also after the battery has been unplugged and plugged in again.

## 4.Active brake

Active brake (AB) is an option, which if activated will stop the motor after each shot (in semi-automatic mode) or the last shot (in burst or full auto). This prevents the spring from staying compressed and in case of replicas with lower muzzle energy and high rate of fire, eliminates possible double shot problem.

On the other hand, activation of the active brake always leads to increased wear of motor brushes as well as its faster heating. We advise to turn the AB off during the game if it is not necessary, and to turn it on just to fire one shot at the end of the day, so that the spring remains uncompressed during storage.

Also, with AB deactivated the piston will end shooting cycle closer to the rear position, so the next shot will be fired quicker.

*ATTENTION: If the anti-reversal lever was not installed, the AB has to remain activated all the time.*

To turn AB on or off you need to enter the programming mode on any of the selector positions and press the trigger 10 times. If the AB is about to be activated, there will be a single sound signal after the 10th trigger pull, if deactivated - double sound signal. Save the settings by pressing and holding the trigger until confirmed by a sound signal.

## 5.Low battery voltage warning

Batteries should never be discharged below certain level. **Perun V2** has a low battery voltage warning feature for lithium-polymer batteries (Li-Po). If activated, after the battery has been discharged to a dangerously low level **Perun V2** will signal that by short sound signals recurring every 30 seconds.

To activate low battery voltage warning, enter the programming mode for any of the selector positions and press the trigger 15 times (after 10<sup>th</sup> time signal of AB being turned on/off will be heard, do not mind it and continue). If the AB is about to be activated, there will be a single sound signal after the 15th trigger pull, if deactivated - a double sound signal. Save the settings by pressing and holding the trigger until confirmed by a sound signal.

## 6. Double shot

If the double shot function will be activated and semi-automatic firing mode will be set, shots will be fired both when the trigger is pressed and released.

To turn the double shot on, set safe mode on any of the selector positions then press and hold the trigger until you hear a sound signal. To turn the feature off, press and hold the trigger again on safe mode.