

USER GUIDE

PicoSSR 3

LAST UPDATE ON DECEMBER 22, 2016

WWW.GATEE.EU



GATE Menet, Wojtak Sp. J. does not take any responsibility for damages, injuries and accidents resulting in the use of this product or the use of Air Electric Gun with the product installed.

NOTICE

Information contained in this document is subject to updating without notice.

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL
CAREFULLY BEFORE INSTALLING THE DEVICE**

SAFETY SUMMARY

DANGER!

Caution must be exercised to prevent short circuiting the battery as the consequences can be very dangerous.

FOR YOUR SAFETY

We recommend that this product should be installed by an experienced airsoft service.

WARNING: Before starting installation process, please ensure that your AEG is empty and there are no BBs inside.

WARNING: Always use a fuse between the battery and the mosfet.

WARNING: Incorrectly connecting positive and negative battery terminals will cause immediate damage to the unit and it can lead to fire.

WARNING: Do not hold the iron for over 3 seconds while soldering wires to the product. It may cause permanent damage to the mosfet.

NOTE: Please keep original product packaging. It contains a serial number required for the warranty.

NOTE:

Please check if you have downloaded the latest manual from the Technical Support section of our website: www.gatee.eu. The Product Warranty Form is also available there.

In case you have any difficulties while installing or using this product, we recommend to email us at support@gatee.eu.

PRODUCT DISPOSAL INSTRUCTIONS



The symbol shown here means that the product is classed as Electrical or Electronic Equipment and should not be disposed with other household and commercial waste at the end of its working life. The Waste of Electrical and Electronic Equipment (WEEE Directive 2012/19/UE) has been put in place to recycle products using best available recovery and recycling techniques to minimize the impact on the environment. Purchasers shall take any old electrical equipment to waste recycling public centers or points of sale.



CERTIFICATE OF CONFORMITY

GATE Menet, Wojtak Sp. J. hereby declares under our sole responsibility that the product GATE PicoSSR 3 is in conformity with the essential requirements of the following Directives: EC DIRECTIVE 2011/65/EU



This product has been certified as RoHS Compliant.



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01. OVERVIEW

PicoSSR 3 is the world's smallest MOSFET for AEG. Even though its dimensions are merely 4x6x21 mm, **PicoSSR 3** is very powerful. It has great electrical and mechanical parameters and fits replicas with little space for MOSFET.

Additionally, it is fully resistant to water immersion (after heatshrink tube fitting). It can work with the strongest AEG replicas - maximum battery rated voltage is 12.8V.

KEY FUNCTIONS



MOSFET

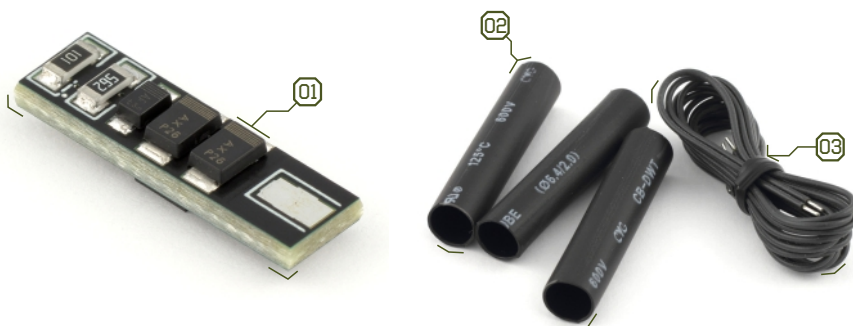
Do you want to achieve higher rate of fire and faster trigger response? Are you planning power upgrade of your rifle? In that case, you need a MOSFET.

It targets the energy from the battery directly to the motor, bypassing the mechanical trigger contacts. As a result, you gain a higher rate of fire of the rifle and faster trigger response, and the contacts are protected against burn out.

PicoSSR 3 is not compatible with micro-switches!

INCLUDED IN THE KIT:

- 01 **PicoSSR 3**
- 02 **3 x heat shrink tube**
- 03 **2 x single signal wire for trigger contacts, each 60cm long**



02. INSTALLATION

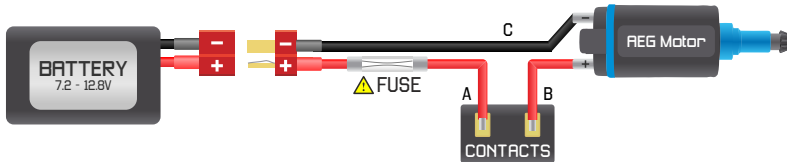


FIG 1. STANDARD AEG WIRING SCHEME

To adapt the standard AEG installation to work with **PicoSSR 3** you have to get to the trigger contacts. In case of GB v2 contacts are located inside a gearbox. With a version 3 gearbox, installation is easier because the contacts are on the outside of the gearbox. Please consult a local airsoft technician if you have never disassembled a gearbox before or if you have any installation concerns.

a) Installation of **PicoSSR 3** without replacement of wires.

Using this method, the original wiring is kept intact, and the connections are modified. Referencing Fig. 1, de-solder A wire from the one of the trigger contacts and then solder it to the B wire. It does not matter which wire you disconnect from the trigger switches, just join two wires together at one terminal. In the place of the A wire, solder additional single signal wire (No. 03 – provided in the kit). The GATE wire is very thin because it handles very low current and it is only used for switch-detection.

WARNING!

Do not hold the iron for over 3 seconds while soldering wires to the **PicoSSR 3**. It may cause permanent damage to the mosfet.

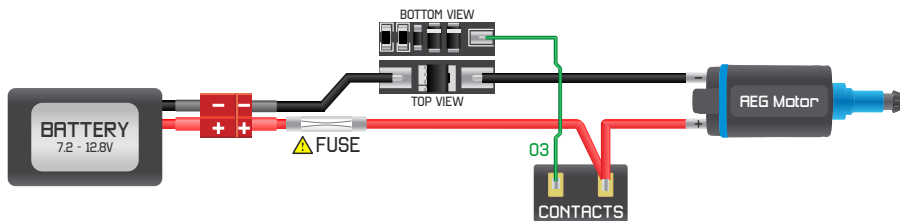


FIG 2. CONNECTION-MODIFICATION SCHEME - THE TOP VIEW

b) Installation of PicoSSR 3 with replacement of wires

Replacing the existing AEG wiring with high-quality, low-resistance wiring in conjunction with the installation of a MOSFET allows for the ultimate in system efficiency. 16 awg or thicker wire is recommended. Solder signal wire (No. 03 – provided in the kit) according to the Fig 3. below.

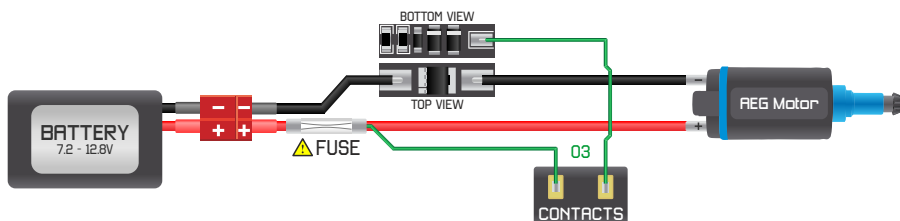


FIG 3. COMPLETE RE-WIRING SCHEME

06. GATE LIMITED WARRANTY POLICY

GATE Menet, Wojtak Sp. J. warrants that its Product is free from manufacturing and material defects at the date of purchase and for a period of one (1) year from the date of purchase and it is not-extendable. This Limited Warranty is conditioned upon proper use of Product by Purchaser.

1. This Limited Warranty is valid provided that the owner provides a proof of purchase and properly completed warranty form.

2. This Limited Warranty does not cover: (a) defects or damage (eg. mechanical, thermal or chemical) resulting from accident, misuse (misinterpretation of the instructions), abuse, neglect, unusual physical, electrical or electromechanical stress, water immersion, repairs or structural modification of any part of Product or (b) the Product that has the serial number removed or made illegible; (c) defects or damage from improper operation, maintenance or installation, (d) installation of the products.

3. Requests for warranty are processed as soon as possible, not exceeding seven (7) working days. The company's obligation under this Limited Warranty shall be limited to providing replacement of part/s only.

Contact: support@gatee.eu