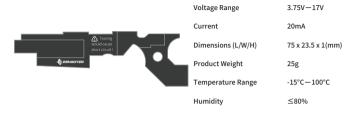


Instruction Manual VI.0

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Specification



Product Features

- KESTREL is a ETU Enter programing by pull the trigger manually.
- KESTREL is compatible with standard Tokyo Marui V3 gearbox.
- This is totally prewired with T-plug connector and mini fuse.
- New shooting experience: pre-cocking, active braking, etc.
- The highest battery voltage limit is 17v (LiPo/LiFe, 4 cells, 14.8v).

Cautions

- 1. Relevant technical skill is required for the installation of KESTREL into your AEG.
- 2. In order to avoid any damage, please read through this instruction manual before installation.
- Your AEG might be damaged by short circuit or battery misconnection which is not under the warranty.This might even cause fire or battery explosion.
- KESTREL does support brushless motors.
- Please disconnect the battery after using your AEG, as KESTREL maintains a small power consumption even this is not operated.
- 6. Do not connect the battery when your AEG points at yourself, others, or any creatures.
- 7. Do not modify or repair KESTREL by yourself. Avoid immersing in any kind of liquid and keep away from any thermal shock equipment.
- 8. Need to remove the mechanical trigger lock. If you don't remove it, you can not program and reset.

Toolkit Checklist



0.2mm: (DIAM 6mm/ID 3.2mm/THK0.2mm)*2Pcs



0.3mm: (DIAM 6mm/ID 3.2mm/THK 0.3mm)*8Pcs



0.5mm: (DIAM 6mm/ID 3.2mm/THK 0.5mm)*8Pcs



Plum blossom metalgasket *2Pcs



M2x4screw*2Pcs



Heat shrink tube*2

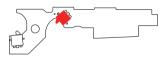


Deans-T*1



Product Overview

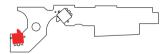
Trigger Detection: Check the trigger movement by physical buttons, achieved high precision controls.



Mode Detection: Two detection switches for mode switching, suitable for extend working life and higher precision.



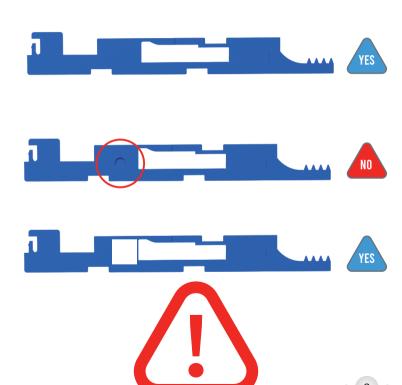
Gear Detection: With physical buttons to precise monitoring the gear movement, and detect the gear teeth and conditions.



Self-test function: Press any switch and the blue light will turn on, indicating that the switch function is normal.



Please ensure that the surface where the selector plate contacts the detection switch is smooth. If there is any dent, please attach a sticker, otherwise the detection switch will be damaged!



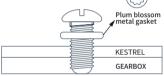
Preparation for Installation

You will need:

Philips screwdriver/Flat Head screwdriver/Metal file or milling machine/ Solvent/Grease/An Android phone or an iPhone/iPad

Follow the bellowing steps:

- Remove the gearbox from the AEG body.
- Disassemble the gearbox and remove all the internals.
- Clean the gearbox case with proper solvent.
- 1. Please follow all the safety precautions procedure in order to avoid any damage of your AEG, no matter how experienced you are.
- Installation of KESTREL is required a good technical knowledge of the gearbox mechanism. This is strongly recommended the installation should be done by the relevant technical persons. Any damage caused by mis-use or incorrect installation is not covered by the warranty.
- 3. KESTREL does not support the infinite torque-up gear.
- 4. Apply a thin layer of grease only, excessive grease application might cover the gap between the sensors and teeth which can be resulted in the cycle detection problem. Please use appropriate viscosity and density of grease.



5. Please place the washers and gasket in the correct sequence by the diagram indicated, incorrect placement might cause the damage of **KESTREL** which is not covered by the warranty.

Installation Notes

1. Put the bottom plate on the bottom of the gearbox, please check whether the bottom plate is placed flat in the gearbox.



2. Please make sure the detection switch does not touch the gearbox shell.



3. If there is no insulation sticker here or it is worn, please replace it with a new one to avoid short circuit!





4. Take the plum blossom metal gasket in the kit and place on the screw hole, secure the bottom part to the gearbox case by original screw or the one from the kit

5. If the screw in the left picture protrudes out of the gearbox, please grind it flat





6. Please slide the selector plate in the correct direction as below picture, otherwise the detection switch may be damage!





6.Please install the switch (Note: This swith is only for gel blaster, and the switch can be removed for non ger blsater.)





7.Please install the switch (Note: This swith is only for gel blaster, and the switch can be removed for non gel blaster.)



Programming Function Description

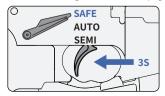
Fault Calibration:

If half-fire or multi-fires occurs in SEMI or firing stops automatically in AUTO, please do the following steps to adapt to the differences of gearboxes and brushed & brushless motors.

- Steps:
- Long press 3 seconds in SAFE.
- 2. Short press the trigger 10 times to enter programming mode.
- 3. Start to short press the trigger $1/2/3 \sim 10$ times to set $1/2/3 \sim 10$ levels. (Switch to SEMI and AUTO checking when level changed, to see if the fault was fixed.)

Enter Programming

Switch the selector to the 'SAFE' and hold the trigger for 3 seconds. It will vibrate 3 times and the green light will flash 3 times, indicating that it has entered the programming mode



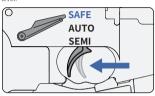
Exit with Timeout

 $After entering \ programming \ and \ no \ operation \ for \ 8 \ seconds, it \ will \ automatically \ save \ and \ exit \ the \ programming \ mode.$

Pre-cocking Function

After entering the pre-cocking function, you need to continuously pull the trigger to select different pre-cocking levels.

After level selecting confirm, switch the selector to 'SEMI' or 'AUTO' to determine the setting of the pre-cocking level.



- 1. Pull trigger 1 time: Reset pre-cocking settings
- 2. Pull trigger 2 times; Pre-cocking level 1
- 3. Pull trigger 3 times: Pre-cocking level 2
- 4. Pull trigger 4 times: pre-cocking level 3
- 5. Pull trigger 5 times: pre-cocking level 4
- 6. Pull trigger 6 times: pre-cocking level 5

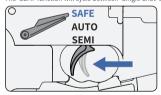
Remark:

The KESTREL Basic has an original self-learning function, which can automatically determine the position of pre-cocking stop based on different speeds and loads.

After replug or unplug the battery in the pre-cocking mode, it is normal for a single shot to fire a few more rounds when the trigger is pulled for the first time.

SEMI Function

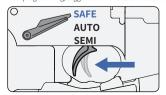
The 'SEMI' function will cycle between 'Single Shot' and 'BINARY'



Programming switching in 'Single Shot' mode, the function will turn to 'BINARY', and next switching will be back to 'Single Shot'.

AUTO Function

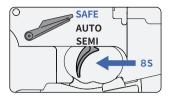
After programming, trigger from AUTO to 3 Burst Shots



Programming switching in 'Full Auto' mode, the function will turn to '3 BURST shots', and next switching will be back to 'Full AUTO'

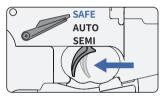
Reset

Long press 8s to reset original program(SAFE, SEMI-Single shot, AUTO-Full Auto, No pre-cocking).



Gel Blaster Feeding Time Setting

After entering the programming mode, pull the trigger 5 times in succession to enter this setting, pull the trigger again to select a different feed time (0.5-3 seconds):



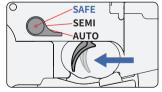
- 1. Pull once: Turn off the feed setting.
- 2. Pull the trigger 2 times: the feeding time is 0.5 seconds.
- 3. Pull the trigger 3 times: the feed time is 1.0 seconds.
- Pull the trigger 4 times: the feeding time is 1.5 seconds.
- 5. Pull the trigger 5 times: the feeding time is 2.0 seconds.
- 6. Pull the trigger 6 times: the feeding time is 3.0 seconds.

Selector switching

After switching the G36 or AK selector settings, shutting down or restoring initial setting will not reset this programming function.



After entering the programming mode, pull the button 6 times continuously to switch the AK selector settings.



After entering the programming mode, pull the button 6 times continuously to switch the G36 selector settings.

Vibration/Light reminder

- 1. Power On: Motor vibrates 1 time. Blue light blinks 1 time.
- 2. Jammed: Motor vibrates 2 times, Blue light blinks 2 time.
- 3. Voltage High (more than 17v): Motor vibrates 3 times, Blue light blinks 3 time.
- 4. Low Battery (2s; less than 6y, 3s; less than 8.5y); Motor vibrates 5 times. Blue light blinks 5 time.

Warranty Card

After Sale Policy

Please kindly provide Warranty Card, Purchase Invoice and packaged the product well before you send back for repairing or replacement

- 1. We provide 3 months warranty time for KESTREL when you purchase.
- 2. We provide replacement service within 30 purchasing days if the product has a quality problem (non-artificial damage) and without disassembly marks.

Date of Production:

- 3. The free maintenance service only be provided during our warranty period, and the product problem will be assessed and confirmed by our engineer whether it is be normal used. Shipping fee and door to door maintenance service are not included in our after sale policy.
- 4. For the following situation, we will not provide free maintenance.
 - 4.1 Users don't follow the requirement and installation steps from the product instruction and cause product damage and failure.
 - 4.2 Damage caused by the irresistible factors.
 - 4.3 The disassembly damage or failure caused by people who are not authorized by E-Shooter company.
 - 4.4 Without purchase proof or warranty card.
 - 4.5 The Warranty time is expired.
- 5. We refuse to provide maintenance service if the warranty card is not the original version, warranty record is not correct or be altered, as well as the card content is difficult to recognize.







More







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