



FUNCTION

功能



最高可支持14.8V的电池。
Up to 14.8V input.



电池低压保护,默认保护7.4V电池,听到“嘟嘟嘟嘟”四声低压警告音时请立即更换电池。
Low battery voltage protection, the default setting is 7.4V battery. Change the battery when hearing 'beep beep beep beep' 4 times low voltage warning sound.



该模块依靠微电流启动,直接把电流通过MOSFET导向电机,可以提供更高瞬间电流,使波箱射速和响应速度更快。
This module is powered by small current, the current flow through the MOSFET directly to the motor, provide higher current to increase the rate of fire and speed of respond.



自动预供弹功能在弹匣插上瞬间,火控会自动给弹匣电机通电,实现自动预供弹,供弹时间可通过编程第9项设置。
Auto-loading function is designed for gel ball blaster magazines with motor inside, when changing the magazine, the magazine motor will run automatically for a period of time, and the length of time can be programmed by 9th option.



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火控过热时,扣扳机电机发出嘀一声提示,直到冷却后自动重启。
When the DTU is overheated, after the trigger is pulled, the motor will give a beep prompt until it is automatically restarted after cooling.



波箱堵转保护,发生锁波时系统停止工作并发出拉长“嘟”声,请立即断电检查波箱。
Block-up protection. When gearbox Block-up occurs, the system stops working and emits an elongated 'beep' sound. Please check the wave box immediately by power off.



内置多种射击模式,通过编程模式编程快慢机相应档位的射击模式。
The system includes multiple shooting mode, these modes can be selected by fire select switch.



可调天梯位置,单发天梯位置可通过编程往后调整,实现PRE-COCKING 功能,扣扳机无延迟。
The default position of the piston is adjustable in semi-auto model. Pre-cocking function can be implementing, zero trigger delay.



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主动刹车使用来自电机的多余能量来停止电机惯性转动,及时停止天梯,高转矩电机制动效果最强。

The energy that support the active brake function comes from the inertia of motor, stop the piston without delay. The effect of active brake is significant on high torque motor.



主动刹车消除了高速波箱的过渡转动,解决了单发模式下的单发变多连发问题,同时使活塞停止在前位,消除了作用在弹簧上不必要的应力,提高了波箱及其零件的使用寿命。

The active function prevents the over-spin of gears, this solve the issue that the single shot becomes multiple shot under high voltage. Meanwhile, the spring is fully released in semi-auto model and parts in gearbox are not under strain, increase the life cycle of gearbox and parts.



可调射速,单发时通过编程两次扣扳机的间隔时间控制发射率,达到控制射速效果,连发时通过控制电机转速达到控制射速的效果。

Adjustable rate of fire, the gap between two single shots can be programmable, to achieve adjustable rate of fire.

MODES

射击模式



SFAE

该模式和原厂一致,在波箱止推杆的作用下,无法扣动扳机。

This model is completely the same as original safe model.
The trigger is stopped by Safety lever



SEMI

该模式通过编程可实现单发,双行程单发和3至6连发,默认单发。

This model can be programmed to implementing
semi-auto, double stroke single shot, 3-round burst to
6-round burst, the default model is semi auto.



AUTO

该模式通过编程可实现连发,3连发,6连发以及9连发,默认连发。

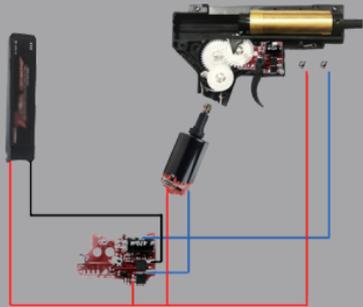
This model can be programmed to implementing full-auto,
3-round burst, 6-round burst and 9-round burst, the
default model is Full-auto.



REQUIREMENTS

技术要求

- 导线使用镀银线, 电池及电机供电线需要0.5平方以上镀银线, 弹匣供电线需要0.25平方左右;
- 焊接使用大功率电烙铁, 推荐50W以上, 配合0.5mm细焊锡和助焊松香进行焊接, 如果不会请请教专业人士;
- 弹簧使用M150以下, 超过M150请使用外接模組的T238电子刹车模組;
- 使用高磁性电机和高放电倍率电池, 减少单发引起的电机和电池发热;
- 连发时, 天梯每次停止位置仍然一致, 但具体位置和电机和弹簧性能有关;
- 使用高磁性电机可以使天梯停止得更加及时;
- 非发射状态下, 系统总电流不超过0.01A, 是发射状态下的万分之一, 长时间不使用请断开电池;

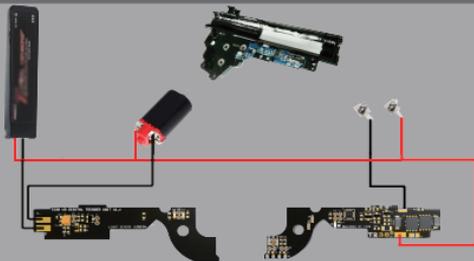


REQUIREMENTS



技术要求

- Silver plate wire is needed for this system, power wire for motor and battery should be larger than 0.5sqm silver plate wire, wire for electronic powered magazine should be around 0.25sqm.
- High-power soldering iron (higher than 50W) is recommended, solder the clip with 0.5sqm soldering wire and soldering rosin. Please ask professional for help if you do not know to solder.
- Please use Spring smaller than M150. Please use T238 external active brake module if your AEG gun with spring larger than M150.
- In full-auto model, the position that the piston stop is coincident. However, it depends on the performance of motor, battery and spring.
- Use high torque motor can stop the motor faster.
- In standby state, the current of the system is smaller than 0.01A. Please disconnect the battery if it is not used for a long time.





INSTALLATION

安装

- 根据接线图测量好每个导线的长度，并焊接好线组（PCB板上裸露的焊接位置为非受理位置，焊接好后请勿拉拽导线以免损坏模组）
 - 拆解波箱，注意拆除跷跷板，保留导电片和止推杆（拆解和安装波箱请查阅水弹波箱的拆解安装过程）
 - 放入模组并布置线路，注意保护模组上的微动开关（部分波箱需要进行手动开孔或者切除部分加强筋）
 - 安装回波箱其他零配件
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- Measure the length of each wire according to the wiring diagram then solder the wires on the clip (The exposed solder joint on the PCB clip is not stand too much force, do not pull the wire after the wire is soldered in case damaging the clip).
 - Disassemble the gearbox, it is necessary to take off the cut-off lever, keep the Safety lever and selector plate on the gearbox (Tutorial for disassemble gearbox can be found on YouTube).
 - Install the module and push the wires in the gearbox (some gearbox needs to be cut off stiffener or drilled hole).
 - Assemble the gearbox.