MODES

SAFE: This mode is completely the same as original safe mode. The trigger is stopped by Safety lever.

SEMI-AUTO: This mode can be programmed to implementing semi-auto, double stroke single shot, 3-round burst to 6-round burst, the default mode is semi auto

FULL-AUTO: This mode can be programmed to implementing full-auto, 3-round burst, 6-round burst and 9-round burst, the default mode is Full-auto

REQUIREMENTS

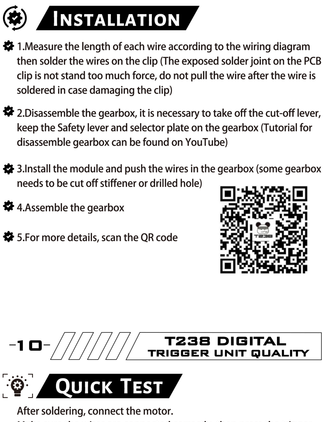
1.Silver plate wire is needed for this system, power wire for motor and battery should be larger than 0.5sqm silver plate wire, wire for electronic powered magazine should be around 0.25sqm.

2.High-power soldering iron (higher than 50W) is recommended, solder the clop with 0.5sqm soldering wire and soldering rosin. Please ask professional for help if you do not know to solder.

3.Please use Spring smaller than M150.

4.Use high torque motor can stop the motor faster and prevent DTU from overheating .

5.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

1.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)

2.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)

3.Install the module and push the wires in the gearbox (some gearbox needs to be cut off stiffener or drilled hole)

4.Assemble the gearbox

5.For more details, scan the QR code

QUICK TEST

After soldering, connect the motor.
Make sure the wires are connected correctly, then press the trigger button ‘S2’ and connect the battery to it. After the battery is connected, release the trigger button ‘S2’, the the module will run into Quick Test mode. Press each button one by one, you will get two ‘beep’s, if not, your module is not right, contact the customer service immediately.

PROGRAMMING

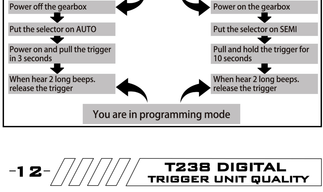
1.Disconnect the battery, then set the fire selector switch to auto.

2.Connect the battery and pull the trigger in 3 seconds, After hearing 2 long ‘beep~’, the module runs into programmable mode, otherwise it will be in auto mode.

3.In the programmable mode, the motor emits short ‘beep’, the numbers of ‘beep’ means the serial number of the option. If you want to choose the option, pull and hold the trigger in 2 seconds after ‘beep’s till a long ‘beep’,

3.he module will be set to matched option. (The options and matched function/parameter are in the table below).

4.After setting to the selected option, the motor emits short ‘beep’s, the number of ‘beep’s means the different function/parameter of this option. If you want to program to set it to certain option or parameter, pull and hold the trigger in 2 second after ‘beep’ till 2 long ‘beep’, then the module is in programmable mode again.
Programming flowchart:



PROGRAMMING MANUAL

Option\Parameter	1	2	3	4	5	6	
1 Low Battery Warning	7.4V	11.1V	14.8V	9.6V	OFF	RESET	
2 Semi-auto mode	Semi	Binary trigger	3 round bursts	4 round bursts	5 round bursts	6 round bursts	
3 Full-auto mode	Auto	Semi	3 round bursts	4 round bursts	5 round bursts	6 round bursts	
4 Pre-cocking control	1：The most front position, 2~15: The larger the parameter is the further back the piston is. The certain position is related the strength of the spring.						
5 Firing interval	OFF	0.3s	0.6s	0.9s	1.2s	1.5s	
6 Rate of fire	100%	80%	70%	60%	50%		
7 Trigger mode (V1.5+ only)	Normal	Sensitive	AUG Mode，Light press semi-auto and heavy press auto				
8 Selector type	G36	AK47					
9 Auto-loading (for gel ball only)	3S	2.5S	2S	1.5S	1S	0.5S	OFF

BEEP

Beep!: represents a short beep.
Beep~: represents a long beep.

Beep types	Meaning
Beep!Beep!Beep!	Successfully initialized prompt tone, system enters game mode
Beep!Beep!Beep!Beep!	Battery low warning
Beep~Beep!Beep!Beep!	System runs into quick test mode
Beep~	Block-up warning sound, system cannot detect gear rotation, or gear detection switch is damaged/option is chosen when in the program mode
Beep~Beep~	Enter and exit program mode
Beep!	Overheat warning/switching fire mode/magazine connecting
Beep!Beep!	Switches response prompt tone in quick test mode