

# CTW

CELCIUS TRAINING WEAPON



INSTRUCTION MANUAL

# Safety Precautions and Equipments

*The Celcius Training Weapon (CTW) is **NOY A TOY**. The most important is ALWAYS handling the CTW as if it is a real weapon. The higher level of preparedness required of law enforcement, military and professional trainer may override several of the following safety instructions. Please read this user manual thoroughly before you start using the Celcius Training Weapon. The CTW is build to be secure military/law enforcement, non-lethal training tool. User is required to handle it properly. Serious injuries can happen if the CTW is handled inappropriately. If there is anything you do not understand about CTW, get help from someone qualified in the safe handling of CTW. This instruction manual applies for CTW and it should always accompany this CTW. When you lend, give, or sell the CTW, be sure this manual goes with it.*

*Always wear maximum protection when you operate Celcius Training Weapon, protective goggles that enclose the eye area, helmets which cover the ears, long-sleeve uniform, tactical vests and gloves.*

## Your Responsibility With CTW

1. Follow safe manual instruction
2. Safely store CTW and ammunition
3. Shoot only at targets and legal training
4. Clean up after shooting
5. Become proficient with CTW
6. Safely and efficiently operate CTW
7. Always point your CTW in a safe direction
8. ALWAYS assume CTW is loaded, until you have checked it yourself
9. Keep your finger off the trigger until you are ready to shoot
10. Be sure of your target
11. Keep CTW away from children and untrained adults
12. Wear eye and ear protection when shooting
13. Never use CTW while under the influence of Alcohol or Drugs

### **NOTICE**

Celcius Technology shall not be responsible for injury, death, or damage to property resulting from either intentional, or accidental discharge of this CTW, or from its function when used to purposes or subjected to treatment for which it was not designed. Celcius Technology will not responsible for careless, or improper handling, unauthorized adjustment, or parts replacement, corrosion, neglect, or the use of wrong caliber ammunition, or use of ammunition other than original high quality manufactured BBs in good condition, or any combination thereof. Celcius Technology will not responsible any claims involving this CTW for any reason or cause when such claims are made by the second or subsequent owner.

## Battery Preparation

The M4A1 Celcius Training Weapon uses Ni-CD, Ni-MH, or Li-Po battery. Before usage, always check that your battery is fully charged. Use suitable battery for each Cylinder Unit.

### **CAUTION!**

**STOP SHOOTING WHEN THE BATTERY IS LOW, THE INCREASED VOLTAGE WILL BURN THE FUSE OR EVEN THE ELECTRONIC CONTROL UNIT.**

## Battery Installation

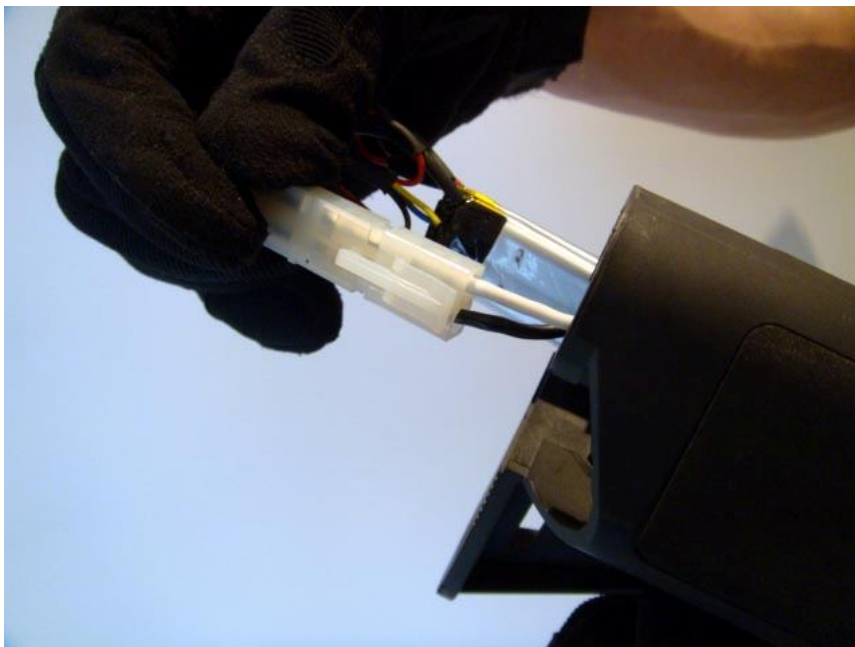
To install the battery, locate the two buttons that lock the butt plate to the stock and press them together to remove the battery compartment cover.



After the cover is removed, push the battery into the stock and slightly pull the wire **outward** to facilitate the position of the internal wiring.



Gently take the battery connector out of the stock. Please do not pull too hard as this may cause damage to the wiring. Align both the connectors on the battery and the stock-side and connect them together.





Reinstall the butt plate firmly.



## **BB Loading**

### **CAUTION**

High quality BBs are essential to ensure the maximum function of the magazine and tight inner barrel. **USE ONLY CLEAN, DRY, ORIGINAL, HIGH QUALITY BBs IN GOOD CONDITION.** High quality BBs manufacturers design their products within exacting engineering to reach the maximum balance, precision, and good accuracy.

To open the loader, follow the marking and pull the lid to the side.



Press the lock button to release the lever.



Fill BBs into the provided BB loader. The BB loader is marked with numbers to indicate the amount of BBs you put into it. Avoid contacting the BBs with bare hands since moisture, oil or dirt may be transferred onto the BBs and affect the projectile.



Place the mouth of the BB loader over the magazine's feeding port. When you start feeling resistance while pressing the lever, it shows the magazine is already full or BBs are misaligned. It is important not to overload the magazine as this will prevent the BBs from jamming. If the BBs are misaligned, stop loading it, take the BBs out and reload it again.



**ALWAYS KEEP AND CARRY YOUR CTW UNLOADED, EXCEPT WHEN YOU INTEND TO SHOOT**

## Firing

Insert the loaded magazine into the magazine slot until you hear a click, indicating the magazine is properly connected.



**ALWAYS** put your finger off the trigger before you are ready to shoot.

Press the bolt-catch release pad. This bolt-catch is the same as a real M4/M16.





Just like the real M4/M16, 2 firing mode can be employed, semi –automatic and fully-automatic. After firing, always return the position to **SAFE**.



The Celsius Training Weapon is equipped with a sensor to disconnect the electricity to the motor once the magazine is emptied. To reload the weapon, press the magazine release button and remove the magazine. After loading a new magazine, press the bolt-catch before firing.



To adjust the position of the retractable stock, squeeze the handle on the bottom part of the stock, shift it to the required position then release it. Slightly move the stock to lock the position.



### Hop Up

Hop up is designed to create a back-spin on the BB. This back-spin creates an extra aerodynamic boost to push the BBs higher and further into the air.

The larger the area, the more necessary it is to adjust the hop up to increase its shooting range. To adjust the hop-up, first detach the magazine and find the hop-up screw. With a screw-driver, turn the screw counter-clockwise to increase the hop-up and clock-wise to decrease it.



## Take Down and Maintenance

The Celcius Training Weapon also has a rear receiver pin just like a real M16. To disassemble, rest your weapon on its side to avoid the barrel nut from scratching the lower part of the outer barrel.

Use the tip of your thumb to push back the rear receiver pin.



Then pull it from the other side until you hear a click. Once you hear a click, the receiver will immediately open. Please do not use any sharp or hard object as this might scratch the surface of the receiver.



With your palm rested firmly on top of the stock, push the charging handle with your thumb to pivot the upper receiver. Please use considerably more force to open the upper receiver.



To take the cylinder unit out, pull back the charging handle along with the latch on its left side. The cylinder unit will slide along with the charging handle.

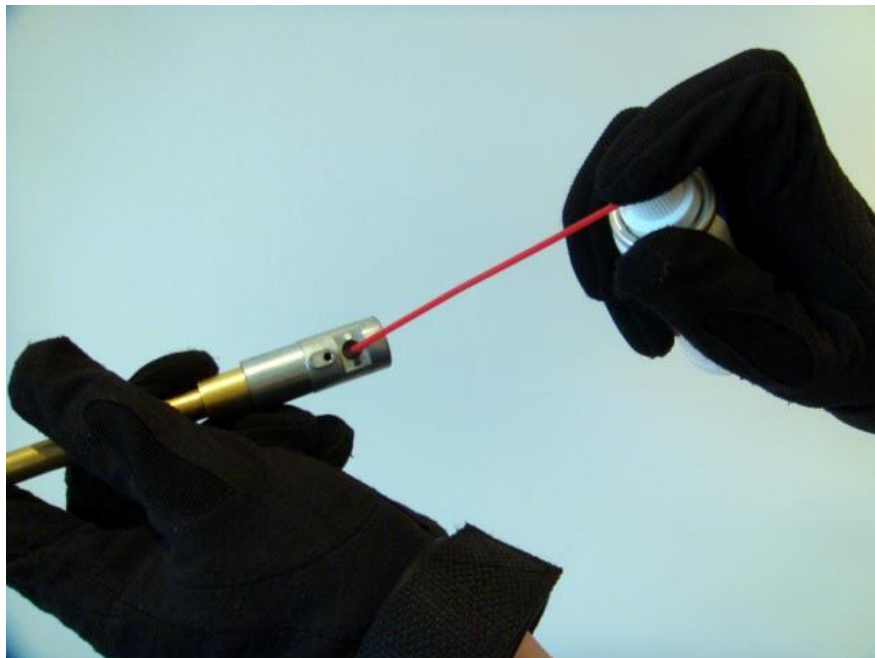


After the cylinder unit is removed, the charging handle can also be taken out by pulling it out all the way and then tilt it upward. To remove the inner barrel, use a plastic rod and insert it from the muzzle end. Run the rod along the inner wall of the outer barrel until it touches the tip of the inner barrel, then push the inner barrel out.

Remove the inner barrel by sliding it through the upper receiver towards the rear of the gun.



Occasionally lubricate the rubber seal and hop up unit from the loading port of the inner barrel. Use only 10% silicon oil, as many other lubricants such as mineral oil, automotive lubricants or WD-40 can immediately destroy the o-rings and other rubber components found within the inner barrel.



**CAUTION!**

While the receiver is opened, DO NOT touch any of the electrical connectors or the circuit board, especially when the battery is connected as this may damage the electrical components.



**CAUTION**

While the receiver is opened, DO NOT pull the trigger. If a battery is installed and the fire selector is not set at 'SAFE', the gears will dry spin and potentially misalign the sector gear. The upper receiver will not close when the sector gear is in the wrong position, and major hardware damage can occur if the upper receiver is forced to close. If you accidentally dry-spin the gears, tap the trigger lightly until all of the sector gear's teeth rotates inside the lower receiver.

If the fuse need to be replaced, first make sure the battery has been removed from the stock, and the stock is in fully retracted position. Then unscrew the fuse holder compartment door as shown to access the fuse holder.



After gaining access to the circuit board and the fuse, gently remove the fuse from its socket using a needle-nose plier. Replace with identically rated fuse only and ensure the new fuse is installed securely.



For re-assembly, simply reverse all of the steps above:

1. Install the upper receiver
2. Install the inner barrel.
3. Install the charging handle
4. Ensure the sector gear is aligned correctly
5. Install the cylinder unit (note the alignment notch on the unit, and make sure the cylinder is inserted all the way)
6. Close the upper receiver.
7. Move rear receiver pin back to its position.

**CTW – Celcius Training Weapon  
Made in Hong Kong**

**[www.celciustechnology.com](http://www.celciustechnology.com)**