

**ECHO1**



UNIVERSO SNIPER  
AIRSOFT



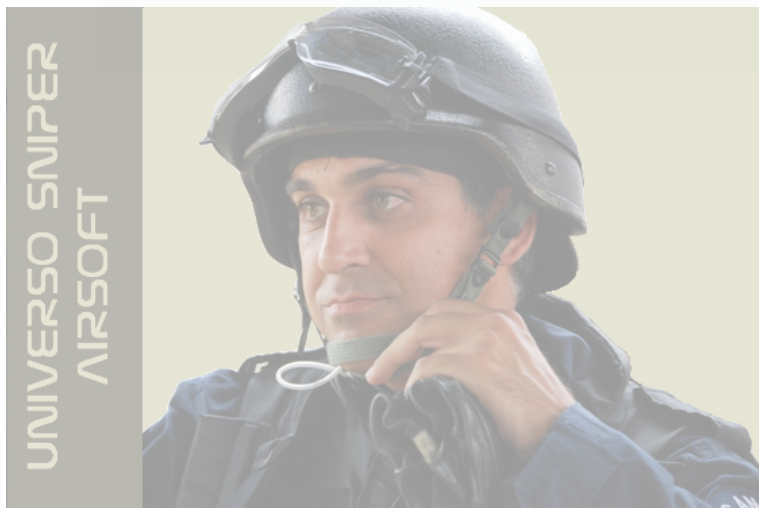
OHIO ORDNANCE WORKS  
**M240B**

**Instruction Manual**



BEFORE USING THIS PRODUCT, CAREFULLY READ THROUGH MANUAL AND RETAIN IT FOR FUTURE REFERENCE. ECHO1USA AUTOMATIC ELECTRIC GUNS ARE INTENDED FOR AGES 18 AND ABOVE. THIS PRODUCT MAY CAUSE SERIOUS INJURY IS MISUSED. FULL FACE PROTECTION IS REQUIRED.

# Parts of the Gun



## Specifications

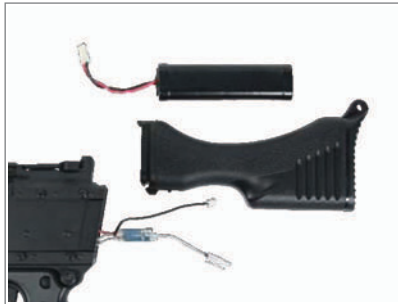
Weight	18 lbs
Barrel Length	550 mm
Overall Length	1250mm
Barrel Caliber	6.08 mm
Ammo Capacity	4000+ rounds
BB Size	6 mm
Feet Per Second	400+ or 450+ fps
Battery Type	9.6v Large

# Battery and Stock Install

Charge the battery for 3 hours for the first time. When charging have the battery away from all combustible materials and on a cool hard surface. If battery becomes hot remove and charger and let it cool before use. When cycle rate becomes slow, stop shooting and remove the magazine. Shoot twice in semi to clear the gun, remove the battery and recharge.

$$\frac{\text{Battery: 2000 mAh}}{\text{Charger: 500 mAh}} = \text{Est. Charge Time: 4 Hours}$$

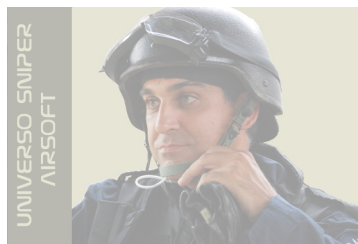
Divide the battery output by the charger output to get the estimated charge time for different battery / charger combinations.



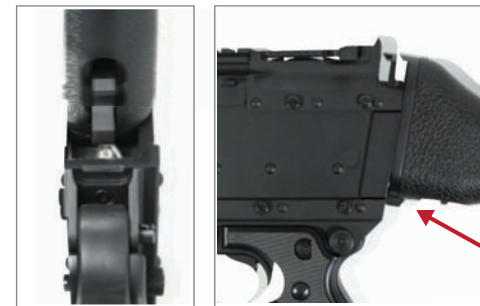
**Step 1.** Get the gun ready for the battery install once it is fully charged. Gently pull both wire sets to the rear of the gun.



**Step 2.** Insert the battery into the stock. Send the magazine wire to the front .



**Step 3.** Gently bend the wire set in a zig-zag fashion like shown. Connect the plugs together. Have the stock offset from the rear of the gun.



**Step 4.** Insert the stock into the slot on the rear of the gun and gently slide down. Make sure not to pinch the wires or mosfet. Pull back on the stock latch to slide down.



**Step 5.** When the stock is secure and the stock latch springs forward the top of the stock will be flush with the rear of the gun.

# Magazine Install

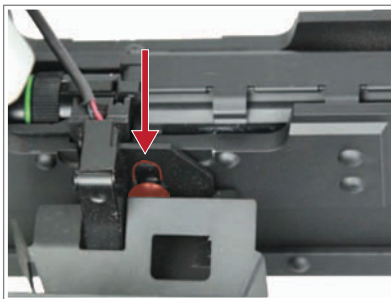
The magazine is locked and held in place by a large screw peg and metal lip on the feeding tube. These key parts are all held in place once the feed tray is closed and secured. Since this is a larger weapon platform and the magazine is offset you will have to take into consideration its location while in use.

**Step 1.** To open the feed tray you will need to press both of the latches in towards each other and lift up on the tray. The secondary gray tray will pivot on the pin when lifted up and out of the way.

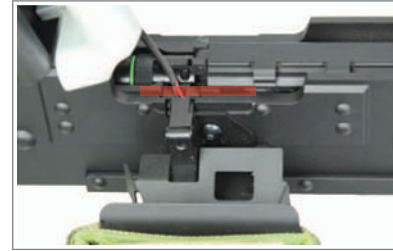
Please note the highlighted parts. On the body of the gun is the screw and the magazine has a matching slot to lock in place.



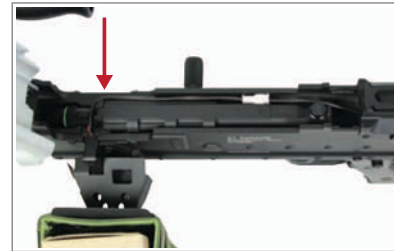
The curved spring transfers the BBs from the magazine to the hop up unit. The thin wire is to power the feeding motor in the magazine.



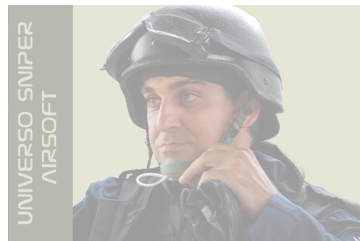
**Step 2.** Gently slide the magazine mount on and down. Make sure the thin power wire is up and out of the way to prevent it from getting pinched.



**Step 3.** Once the magazine mount is all the way down and secure it will sit flush with the body.



**Step 4.** Place the wire around the front of the gearbox and to the rear to plug in the power wire. Gently lower and close the feed tray parts and do not pinch the wires.



**Step 5.** Open the top of the box and pour in the BBs. The loading unit is at the bottom like a sink drain. Please keep debris out of the unit and BBs from going underneath the metal base. With the battery plugged in switch to fire mode and fire about 50 shots until the BBs are loaded in the feed spring and shoot out the barrel. You are ready to use the M240B.



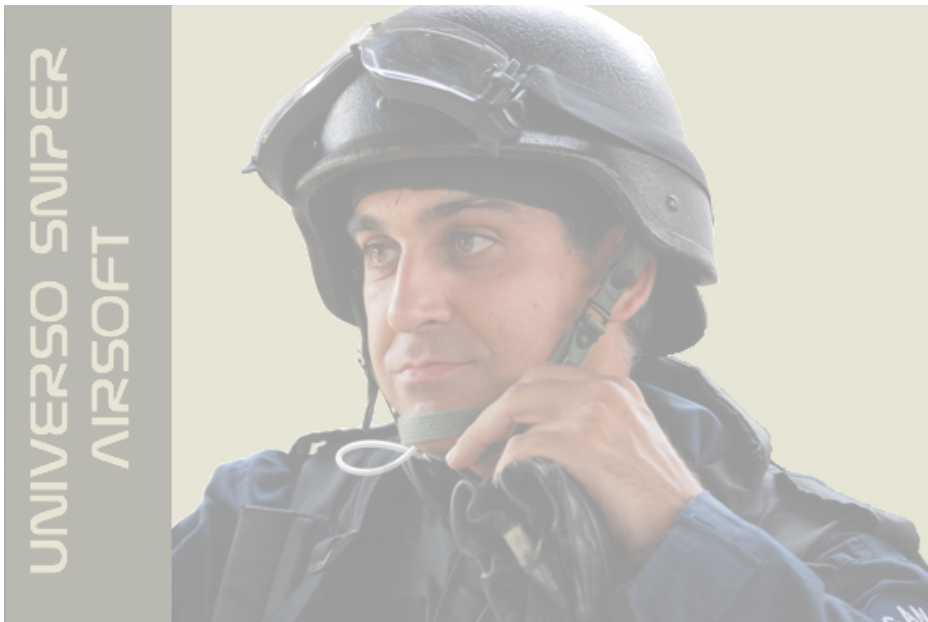
# Fire Mode



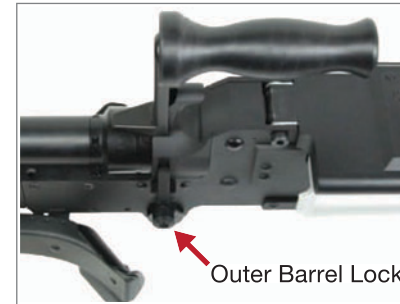
**Safety.** Push the button in or to the right side of the gun to activate the safety.

**Fire.** Push the button in or to the left side of the gun to de-activate the safety and pull the trigger to fire.

**Note.** For the M240B there is no select fire mode. When not in use please keep on SAFE mode and unplug the battery.



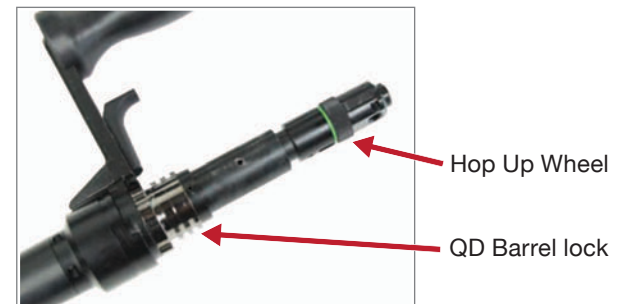
# Barrel Removal



**Step 1.** Remove the heat shield. Press and hold the outer barrel lock and lift the carry handle up.



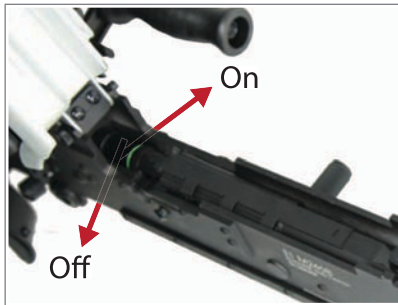
**Step 2.** Keep the outer barrel lock pressed in and pull the outer barrel forward. If the outer barrel is stuck please wiggle the outer barrel until free.



**Step 3.** With the outer barrel removed you can now clean, unjam or prepare for transport. Apply silicone oil to make the process easier next time.

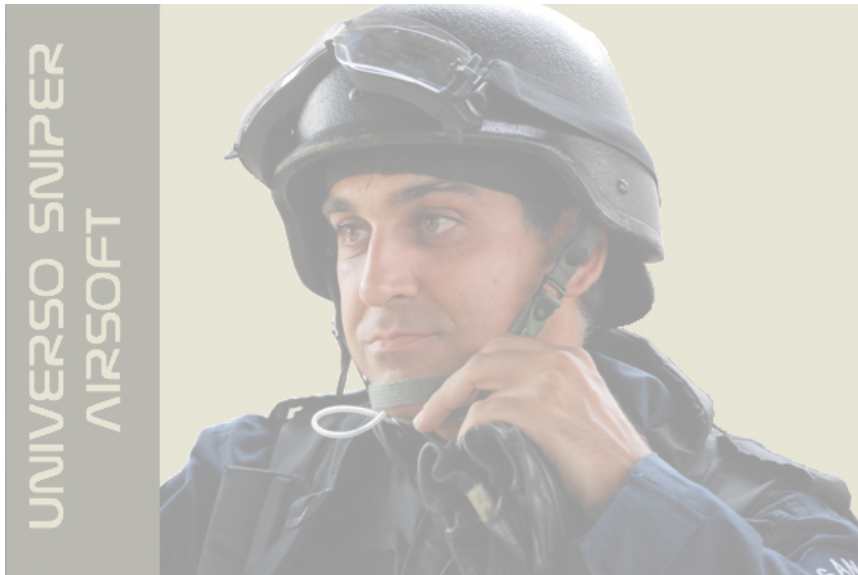
# Hop Up Unit Adjustment

The hop up unit adds a back spin to the BB to allow a longer flight path. Before use please do so in a safe location and make sure nobody is behind the target. When using different weight BBs you will have to make adjustments. When not in use please turn the hop up unit off.

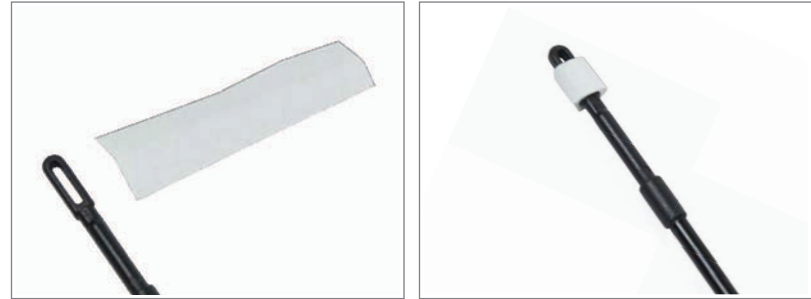


**Step 1.** To access the hop up wheel you will have to raise the feed tray. Turn the ribbed wheel to the right or left and test fire until desired setting is found.

**Step 2.** To adjust the hop up unit you can have the magazine attached .



# Hop Up Unit Cleaning



Cut the cloth or paper towel in the size as shown above. Fold the material to fit through the loop. Adjust the length of the material to smoothly enter the barrel. Otherwise too much material will get jammed in the inner barrel and can cause the hop up bucking to get out of place.

- 1) Turn the hop up unit off. Disconnect the battery, and remove the magazine. Spray silicone oil into the hop up chamber from the magwell for 1 sec. and fire 10-15 bbs to oil inner barrel and hop up parts.
- 2) Fire 2 shots with magazine removed to clear gun of bbs and disconnect battery.
- 3) With a twisting motion gently push the cloth and rod down the barrel. Inspect cloth and if dirty repeat 2-3 times until clean

Note: you can apply silicone oil directly to the cloth as well. If there is too much oil in barrel the bb trajectory will be unstable

## Jammed

- 1) Turn the hop up unit off. Disconnect the battery, and remove the barrel set.
- 2) Use the angled end of the cleaning rod to push the BB backwards and out through the hop up unit.
- 3) Make sure to have the angled end facing down and silicone oil will help loosen the BB.

NOTE: If you continue to fire the gun with a jam you will cause more damage.

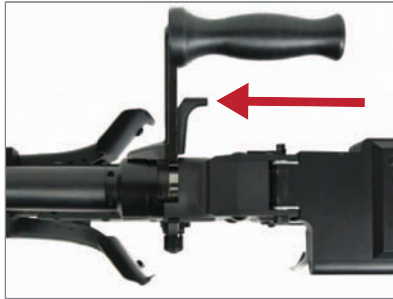
# Key Parts

The M240B has many parts and functions and a full understanding of them will ensure the proper and correct use of them.

The carry handle which allows for barrel removal.

The heat shield which presses onto the outer barrel.

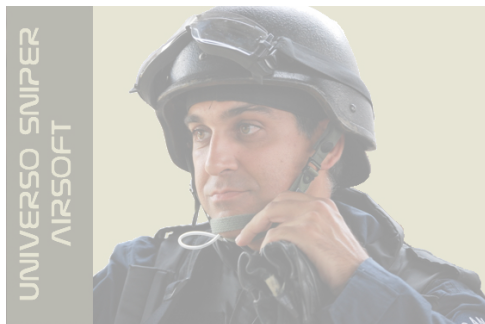
The bipod that locks in the closed position.



**Carry Handle** To move the handle to the top or 12 o'clock position you will have to pull up on the base lever to release and then move the handle.



**Heat Shield** The heat shield presses onto the outer barrel. No tools needed. Do not use as a handle or support.



Bipod lock plate

**Bipod 1.** To release the bipod pull down on the lock plate.



**Bipod 2.** Unhook the metal tabs on either side of the bipod legs and extend downwards.



**Bipod 3.** Extend the bipod legs out and allow gun to rest. Press the bipod lock plate up to secure.

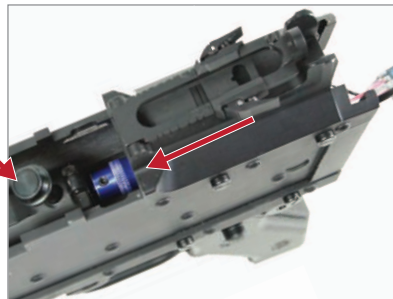
# Spring Change

The stock FPS of the M240B is an average of 400 with a .20 BB. The provided second spring will raise the FPS to a 450 average. Please check with local field limits before installing the higher FPS spring. To prepare for the spring change you will have to remove the stock and extend all wires out the rear of the gun.



**Step 1.** To make the install faster and easier it is recommended to use the Echo 1 USA tools. The Phillips and Flathead are used.

Spring Guide Post



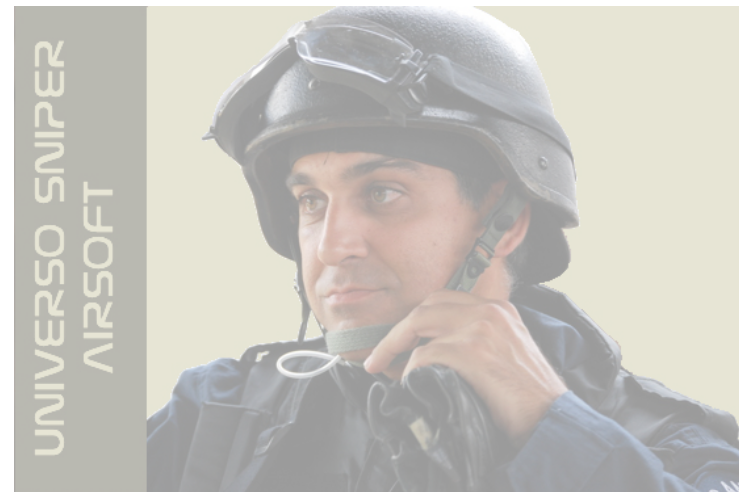
**Step 2.** Use the flathead driver to pry the spring guide post up. The phillips driver will then be slid through the back and center all the parts.



**Step 3.** Once the spring guide post is pulled up and out half way you can insert the phillips driver and get better control of the spring guide.



**Step 4.** With the spring guide removed you can install another spring. The design is intended for use with the Echo 1 tools.





# Trouble Shooting

## **Gun is making a quiet clicking noise when trigger is pulled.**

Use a fully charged battery or 12v to unlock the gears.

## **The trigger is stuck and will not pull back in SEMI mode.**

Switch the selector to AUTO mode, fire 2 - 3 times, and switch to SEMI.

## **No power or noise coming from the gun.**

Fuse may be blown. Replace with a 20 amp or 25 amp fuse found at most auto parts stores. Bypass by sticking the connectors together.

## **Grindy / scratchy noise when shooting.**

Motor height is too high or low. Use a 1.5mm allen key or flat head screw driver to tighten or loosen until the sound goes away.

## **BBs jamming or not shooting**

Barrel is jammed. Please check with Hop Up page to unjam.

## **Now working after trouble shoot.**

Please contact [info@echo1usa.com](mailto:info@echo1usa.com) on our home page for more help.

# Notes

