



TROY
MRF *SERIES*

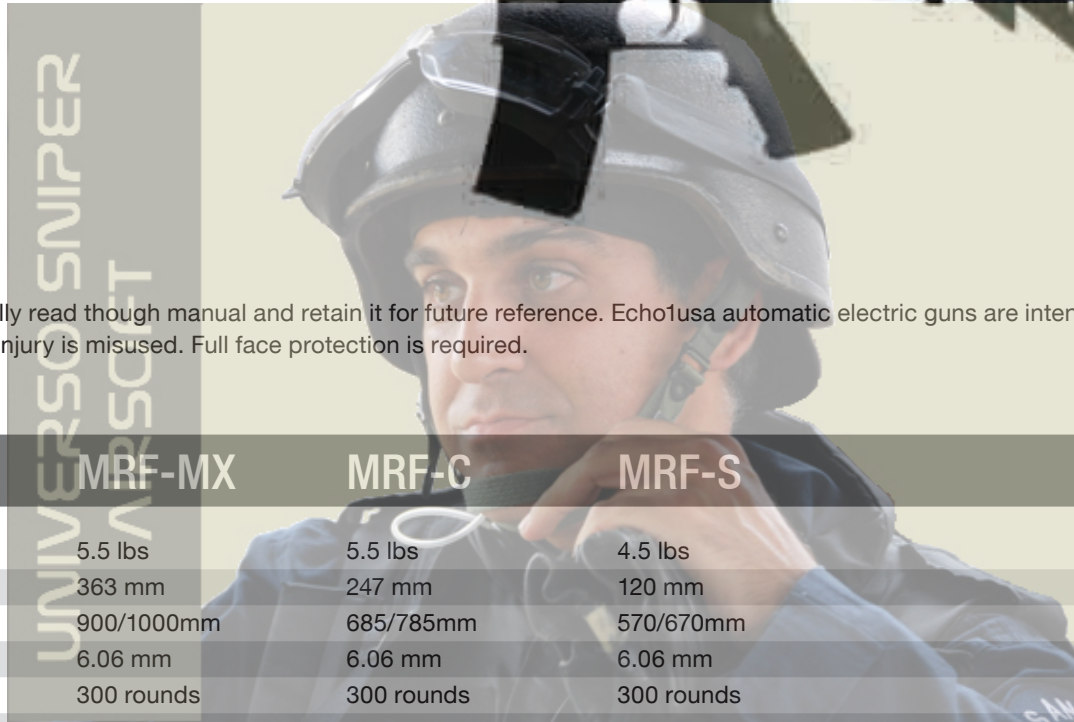
UNIVERSAL SNIPER
AIRSOFT



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.

The TROY Series



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Specifications	MRF-MX	MRF-C	MRF-S
Weight	5.5 lbs	5.5 lbs	4.5 lbs
Barrel Length	363 mm	247 mm	120 mm
Overall Length	900/1000mm	685/785mm	570/670mm
Barrel Caliber	6.06 mm	6.06 mm	6.06 mm
Ammo Capacity	300 rounds	300 rounds	300 rounds
BB Size	6 mm	6 mm	6 mm
Feet Per Second	400+ fps	400+ fps	380 fps
Battery Type	9.6v Crane Type	9.6v Crane Type	9.6v Crane Type

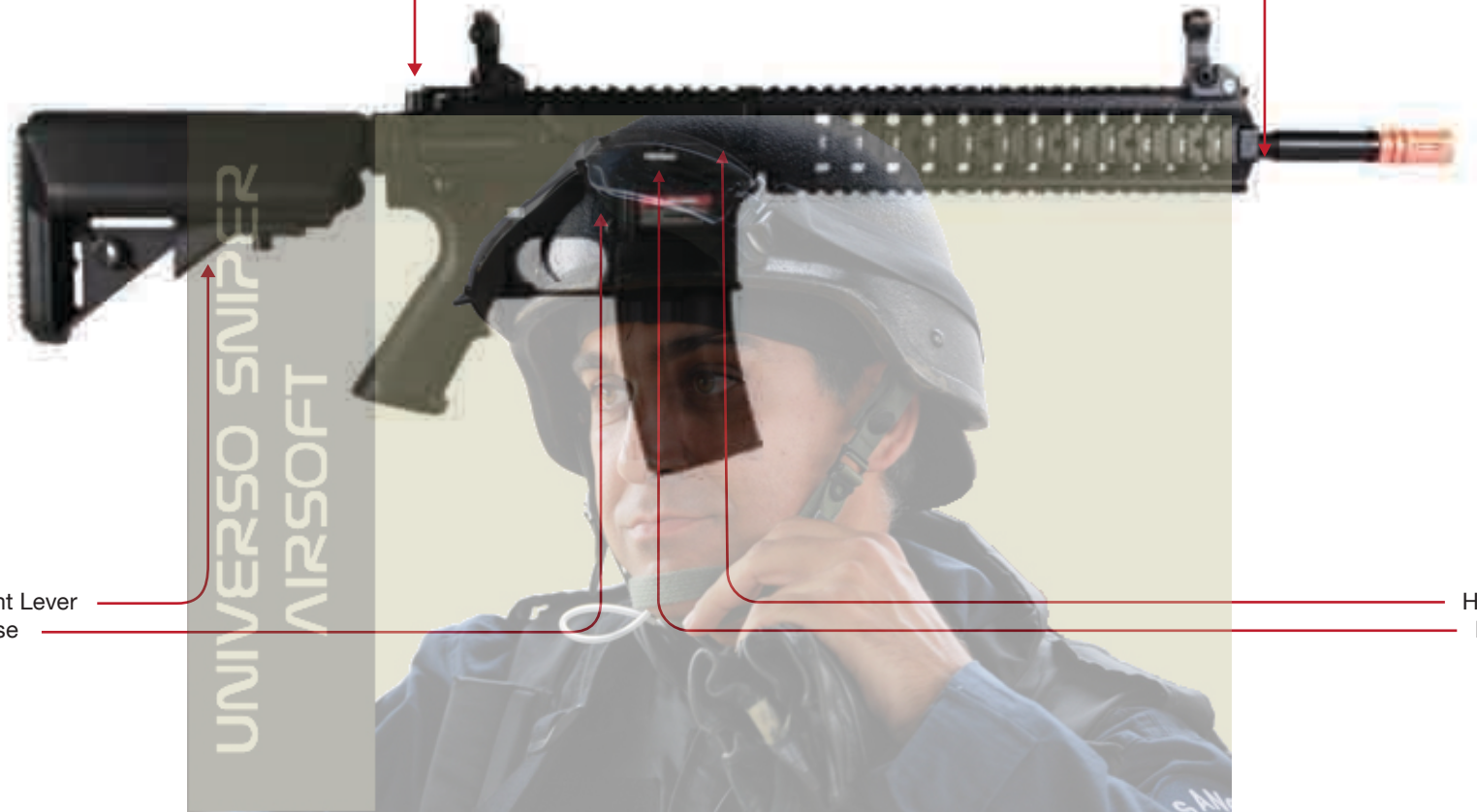
Parts of the Gun

Charging Handle

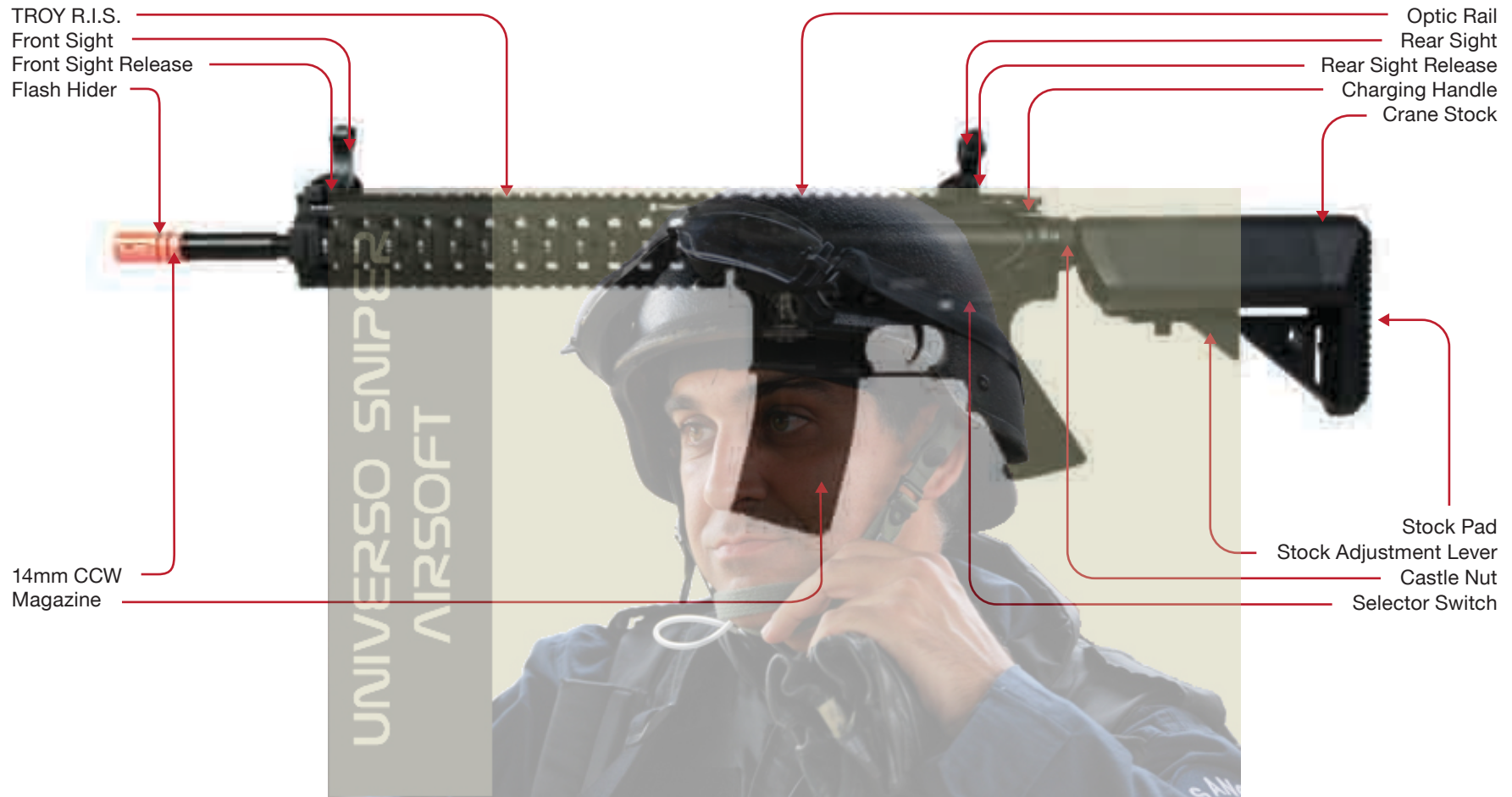
Outer Barrel

Stock Adjustment Lever
Magazine Release

Hop Up Unit
Dust Cover



Parts of the Gun



Battery Charging

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 2 times in SEMI to clear the gun, remove the battery and recharge.

Basic Charge Time:

Battery: 1500 mAh / Charger: 300mAh = Estimated Charge Time: 5 Hours



Battery Installation



Stock Pad Tabs

Step 1. Gently press inward the two tabs on the Stock Pad. About 2mm and should be clear. Pull back on the stock pad to remove.

No FUSE



Step 2. Insert the battery cells on either side of the crane stock. Gently pull out the wire to expose the fuse and for easier plug connection.

Step 3. Slide the battery into the crane stock and tuck the fuse and plug back into the metal tube.



Step 4. To attach the stock pad you will need to reverse the steps. Press in on the top tab and pivot inward. Gently press on and make sure not to damage any parts.



CAUTION: Please be gentle when removing the stock pad. The highlighted red parts can be broken if abused. The warranty does not cover abuse.

Ambi Fire Selection

How to use the Magazine



SAFE:

Trigger is secure and cannot fire



SEMI:

With one trigger pull one BB is fired



AUTO:

Gun will fire automatically while trigger is pulled

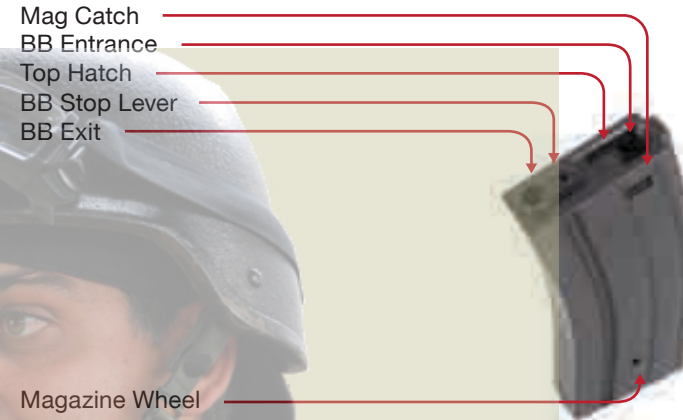
Operational Tips:

If the trigger is stuck or jammed in SEMI mode please select AUTO and fire several times to reset the cut off lever. Low battery power can cause this jam.

The Fire Selectors will move with ease. Forcing the Fire Selectors may cause damage.

Avoid getting dirt and debris into the magazine this can cause it to malfunction. Only use Echo1USA BBs into your Echo1USA Airsoft Rifle. The use of .12g or 'low grade' BBs will damage your Airsoft Rifle and VOID the warranty.

1. Press the magazine release to remove the magazine from the gun.



2. Open the Top Hatch and load BBs. About 300 BBs can be loaded. Do not force the BBs into the magazine

3. Close the Top Hatch.

4. Hold the Mag with the BB Top Hatch facing up and turn the Mag Wheel. You will see a BB move to the BB Exit and stop. Once a BB has reached the BB Exit continue to turn the Mag Wheel for approximately 15 more turns.

Operation Tips:

Use caution when mag seems empty.

There are about 30 BBs left in the loading tube even after mag is out of BBs.

Turn the Mag Wheel 7-10 times for every 30-50 BBs fired.

Turning the Mag Wheel may cause damage.

For storage pull back on the BB Stop Lever to release the remaining BBs and ensure proper operation for next use.

If the mag is not feeding correctly please apply silicone oil to the Mag Wheel and into the BB Entrance to lubricate the moving parts.

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 Unit pull back the Charging Handle. The Charging Handle has a latch on the left side. Please be gentle when pulling back.



Step 2. Hold the Charging Handle back to open the Hop Up area and make adjustments.

Step 3. To adjust the hop up unit you will have to turn the wheel. Turning UP will add more hop up effect and turning DOWN will turn the hop up unit off. Once you find the best setting you can release the charging handle.

Hop Up Unit Cleaning

How to clean the inner barrel.

Turn Hop Up Unit OFF - Disconnect Battery - Remove Magazine



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. Spray silicone oil into the hop up chamber from the waggwell 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. 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

Only use Echo1USA BBs into your Echo1USA Airsoft Rifle. The use of .12g or 'low grade' BBs will damage your Airsoft Rifle and VOID the warranty.

How to unjam the gun.

Turn Hop Up Unit OFF - Disconnect Battery - Remove Magazine



1. Use the Angled end of the cleaning rod to push the BB backwards and out through the Hop Up Unit.
2. 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.

Trouble Shooting

Notes

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.

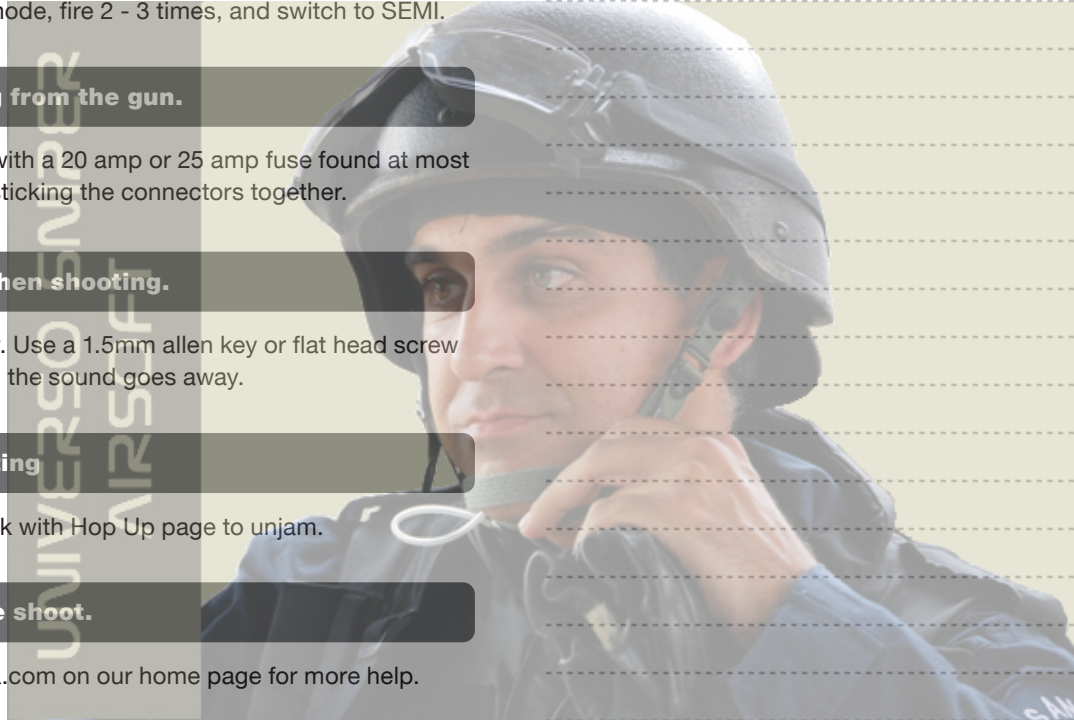
Motor height is too high or low. Use a 1.5mm allen key or flat head screw driver to tighten or loosen until the sound goes away.

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 on our home page for more help.



Notes section containing horizontal dashed lines for writing.