

M86 & M87 SERIES

AUTOMATIC ELECTRIC GUN SERIES

HANDLING CAUTIONS AND INSTRUCTION MANUAL



Users Restricted to 18 Years of age or older



- Metal Gear & Frame
- One Piece Precision Metal Barrel
- Adjustable Hop-up System
- High Power Accuracy Performance
- Effective Long Range Shooting(60m-70m)



在操作之前必须熟读说明书
Always read through this manual before operation.



警告 WARNING



18以上年龄才能利用这支汽枪比赛使用
Operation of this air gun for competition use is restricted to users of 18 years of age or older.



因为BB弹能达到50-60米范围, 不小心的射击将可能导致眼睛受损伤或其它伤害。
Since plastic BB bullets reach 50 to 60 meters, careless shooting may cause eye damage or other injuries.



在操作之前要细心读熟警告手册和指示手册操作汽枪时必须认识好警告指示
Always read through this HANDLING CAUTION AND INSTRUCTION MANUAL carefully before operation.
Operate the air gun with full recognition of warnings and cautions.



DO NOT BRANDISH OR DISPLAY THIS PRODUCT IN PUBLIC - It may confuse people and may be a crime. police and other may think it is a firearm, Do not change the coloration and markings to make it look more like a firearm. That is dangerous and may be a crime.

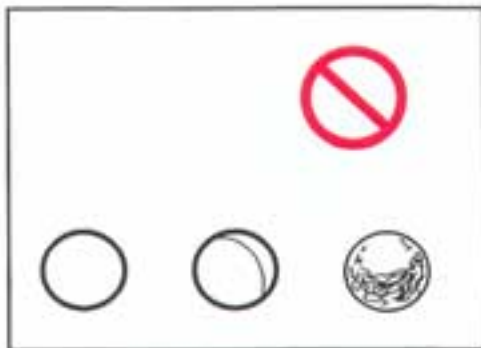
WARNING

⚠ Always read through this manual before operation

- Read through this manual before shooting, paying special attention for safe operation
- Thoroughly understand the warnings and cautions for safe operation

CAUTION

- Always observe warnings and cautions strictly.
- Failing to do so may cause injury, accidents, or damage to the gun.



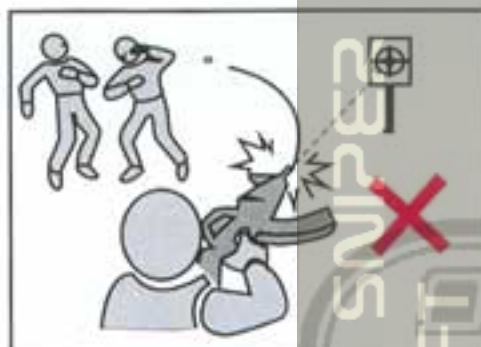
Always use precision BB Bullets for this air gun. Never use any used BB bullets.



Do not look directly into the gun barrel to avoid accidental discharge of BB.



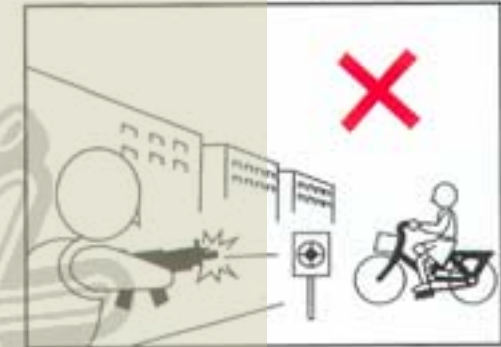
Never aim or shoot a person or animal as the target. Always set the selector on safety position except when you are ready to shoot a target.



Never hold the gun sideways as the BB bullets will curve right or left. This is due to the HOP-UP system.



Do not brandish in public, do not alter the coloration and warnings-such an action is dangerous and may be a crime.



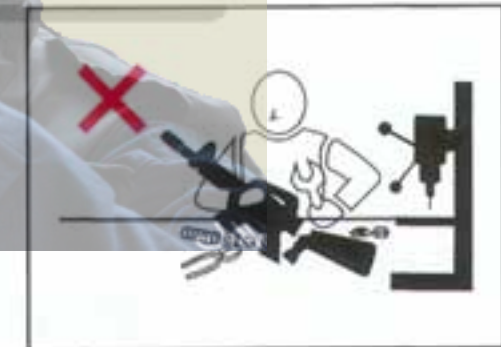
Select a safe place for operating the air gun, avoiding places where people and cars pass cross or third persons are around.



There are cases that bullets remain in the gun after the magazine is disconnected, pulling the trigger carelessly is extremely dangerous, After towards a safe direction and fire few bullets confirm that no bullets remain in the gun. Then attach the protective plug to the muzzle.

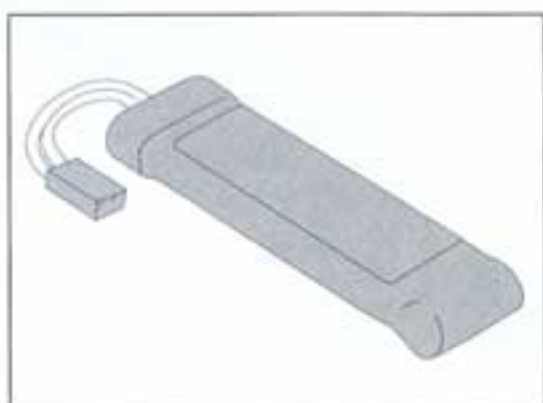


Always attach the protective plug to the muzzle, remove the battery and store the air gun in a case or bag and at a place out of reach by children so that they will not be injured during mischevous play.



This air gun is manufactured under consideration of appropriate performance and operability. Disassembling or modifying the gun may generate danger or adversely affect the performance, So avoid disassembling or modifying the air gun.

1 Charging the Battery (Battery and charger are Included)



8.4V 1200m Ah Ni-Cd Battery Pack

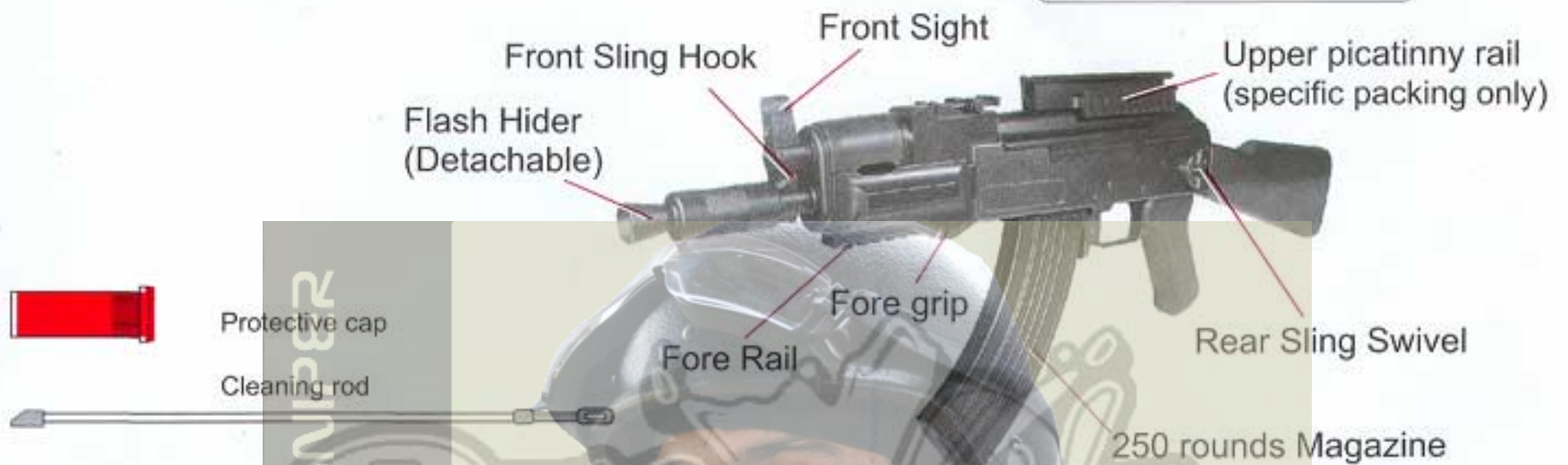


Exclusive Charger for Ni-Cd Battery Pack

CAUTION

- Use the correct battery and charger according to respective instruction manuals. We will not be held responsible for any accident or damage caused by wrongful operation or usage of non-specified battery.

2 Component Names (For details, see the following pages.)



3 Selector lever and Safety Setting

Set the selector lever correctly in position; otherwise, malfunction may occur.

Warning
To prevent malfunction of the switch do not change the selector lever from semi to full auto while pulling the trigger.

1 Safety Setting

Always set the lever to the Safety position and attach the protective cap when you are not firing the gun or during storage.

2 OA Position Semi auto (Single Shot)

The gun will fire one shot each time the trigger is pulled.

3 AB Position Full Auto (Automatic Firing)

The gun will fire automatically while the trigger remains pulled.



4 Setting the Battery (Set the battery after charging)

Warning

Attach the protective cap to the muzzle and direct the muzzle towards a safe direction, (Always set the selector lever to the Safety position.)



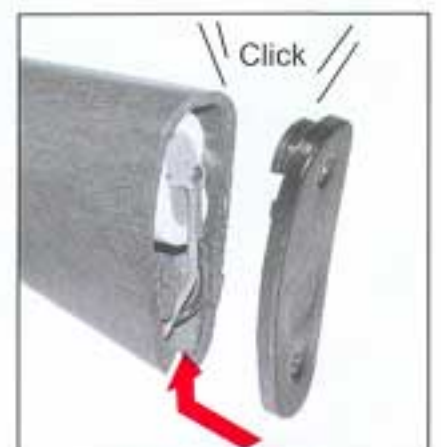
Remove the butt plate by pressing it downwards and pull out the connector. (Do not pull out the fuse box.)



Insert the battery in the stock and connect connectors.



Press down the fuse box and insert connectors and cords between the fuse box and battery. Bend cords in the S shape.

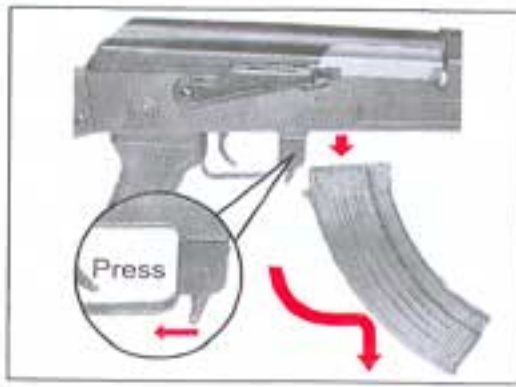


When the battery and cords are set in positions, reinstall the butt plate as shown.

5 Setting the Magazine

Warning

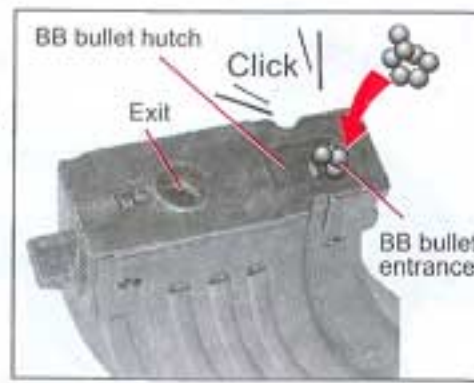
Check that the selector lever is on Safety and that your finger is not on the trigger.



- 1 Press the magazine release lever to remove the magazine.

Caution

Support the magazine as it may drop.
Magazine release lever



- 2 Open the BB bullet hatch on top of the magazine and insert BB bullets. About 250 bullets can enter. (Do not insert furiously)
- 3 Close the BB bullet hatch for a click sound.

Caution

Failure in bullet feed may occasionally occur during full auto operation. In this case disconnect the magazine give a slight shock or poke BB bullets using a stick and then set the magazine again.

Caution

If bullet feed is frequently faulty remove all bullets from the magazine and spray silicone oil from 0.5 to 1 secretary. Note that the hop-up operation may become unstable for a while after using silicone oil spray.

- 4 Hold the magazine with the BB bullet entrance facing up and turn the gear on the bottom all the way until jii-jii sounds change to clicik-clcik sounds. (The gear turns without load if only a small number of bullets is loaded.)

Turn the gear all the way until the sound changes.



The gear will not be damaged even if it turned excessively

Bullet stopper releasing lever



Slide the lever in the arrow direction to remove remaining BB bullets. (Be careful since BB bullets may jump out)

- 5 Check that BB bullets are feed up to the exit shown in and connect the magazine to the main body.

Caution

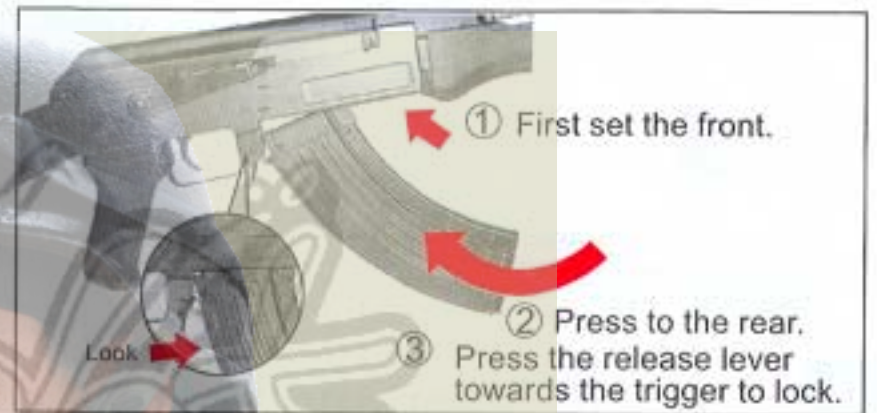
Always set the magazine upwardly. First align to the groove shown by an arrow and press in the rear of the magazine.

Warning

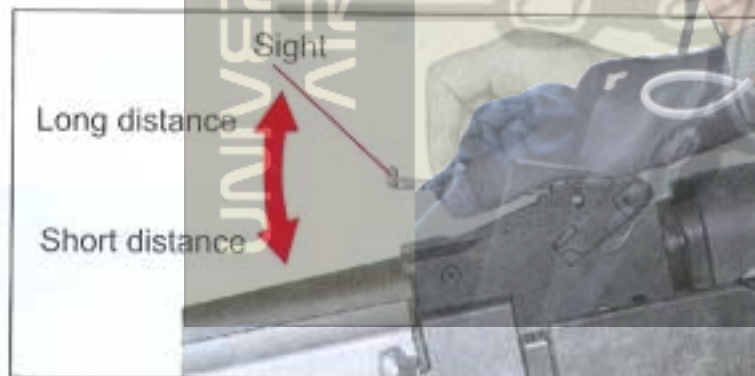
Always use the Double Eagle BB Bullet for this air gun. We shall not be responsible for any damage and accidents arising from use of inferior bullets.

Double Eagle BBs
(0.12g) (0.20g)

Inferior BBs



6 Rear Sight Adjustment



- The rear sight is a tangent type which is adjusted vertically according to distance to the target.
- Press the adjustment button and slide it forward or backward to move the sight up or down. The larger the number, the longer the distance to the target.

7 Variable Hop Up System

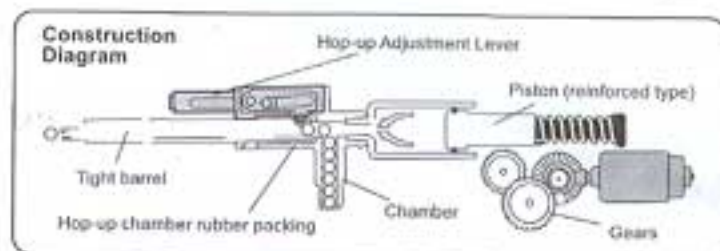
(Make sure to read through this page if you purchased the hop-up version.)

By producing a back-spin on the BB bullets, this system allows for straighter and longer distance shooting than normal air guns. Unlike the fixed type. This variable Hop up system permits One-touch adjustments using the dial and lever, making it an ideal hop up system.

- Adjustment Procedure (Adjust by carrying out trial firing, referring to this on page of the instruction manual.)



- Gradually turn the adjustment dial towards Hop to give hop up to bullets. (The best setting is where bullets fly horizontally.)
- Turning excessively adversely affects the trajectory. So stop turning the dial when bullets fly horizontally.
- The best position is where the bullets fly horizontally, and the longest flying distance is obtained.



Too much hop-up (Return the lever towards NORMAL)

Best Position

Not enough hop-up (Move the lever towards HOP)

8 Firing (Confirm your shooting area is safe before beginning firing.)

- 1 Set the selector lever to "AB" or "OA" position



- 2 Pull the trigger.

Warning

- Charge the battery if the firing cycle becomes slow.
- Give the air gun a rest for 5 to 10 minutes after firing about 500 rounds, in order to ensure long service lives of the motor and battery.
- Remove the protective cap only when you are ready to fire the gun.
- A blank firing may occur at triggering after setting the magazine, this is the normal operation of the gun.

9 Install Quick Aim Electronic Sight * (For specific packing only)

POWER

Your QAE Scope Gs12 is powered by two 1.5 volt lithium long life battery NO.AGB or equivalent. Should the red dot become dim or does not light at all, you will need to replace batteries. To install new battery, unscrew the battery cover in anticlockwise, and recover it in clockwise after replace old batteries with new one.

MOUNTING

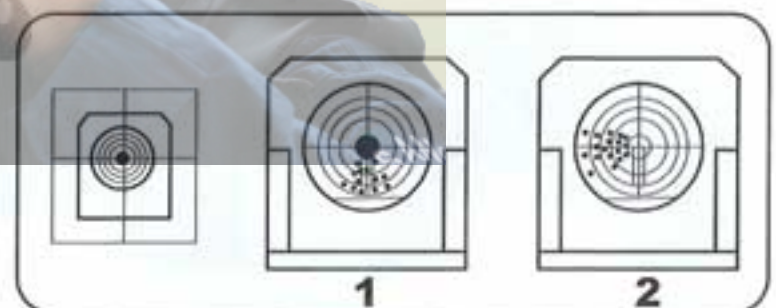
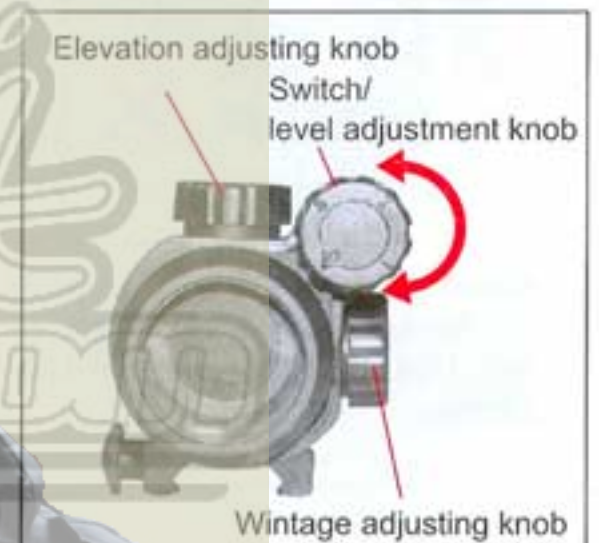
When you mount this sight on a dovetail base gun, unscrew right mounting screw, slide the sight onto the dovetail and tighten it at proper position.

OPEN & CLOSE POWER

Engage the sight by turning the switch. Turning the switch at 3 position will open the sight with the highest light, turning the switch at 2 position will open the sight with higher light, turning the switch at 1 position will open the sight with dark. Turning the switch at 0 position will close the power.

ADJUST THE RED CROSS SIGHT

- 1 Adjust the sight vertically by turning the elevation adjusting knob
Turning cross shifts down the shooting point.
Turning counter clockwise shifts the sight up the shooting point
- 2 Adjust the sight horizontally by turning the wintage adjusting knob
Turning cross shifts the sight to the right.
Turning counter clockwise shifts it to the left.



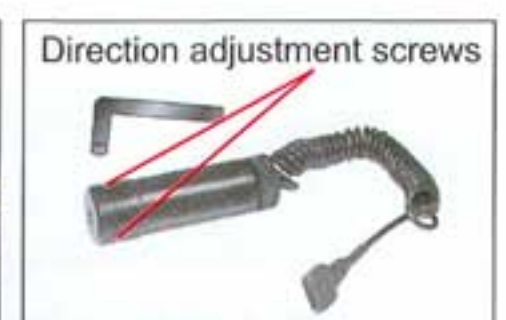
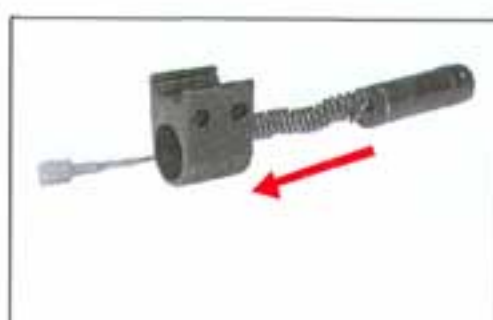
10 Install Adjustable Laser Aim Module (ALAM) * (For specific packing only)

1 Install the Adjustable Laser Aim Module

- Disengage the Cover of Laser, Install 3 batteries AG10, then fasten the Cover
- Install the Laser into the Laser base, Make two adjustment holes outside
- Slide the Laser base on the Lower Picatinny Rail, and fasten two Locking Screws
- Press the switch botton of the Laser

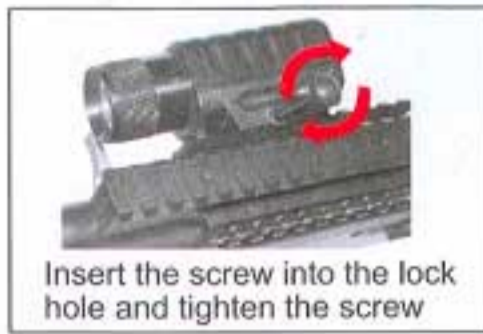
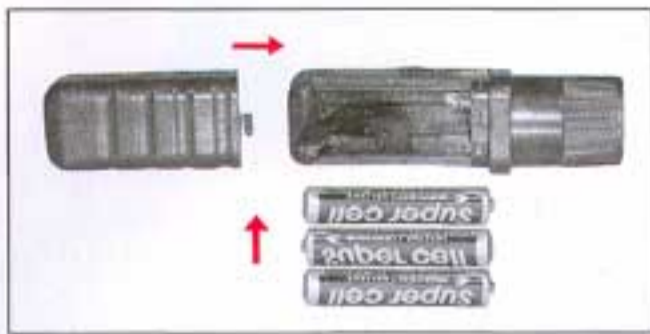
2 Adjust directien

- Turning adjusting screws can adjust the sight by using the 2.5mm hexagonal key for the M5 setscrew. Turning clockwise shifts up and left the shooting point. Turning counter clockwise shifts the sight down and right the shooting point.



11 Install Flashlight * (For specific packing only)

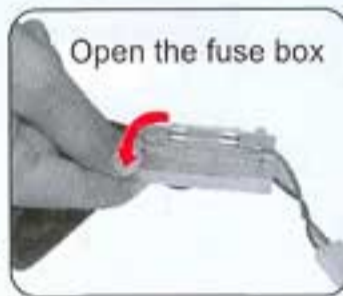
- Load three "AAA" batteries
- Mount the flashlight on the rail and insert the screw into the lock hole and tighten the screw.
- Press the switch to turn on the flashlight.



12 Maintenance

1 Fuse Replacement Procedure

- The fuse box comes out when the connectors are pulled out of the stock.
- Open the fuse box and replace the fuse.
- Close the fuse box and push into the stock all the way.



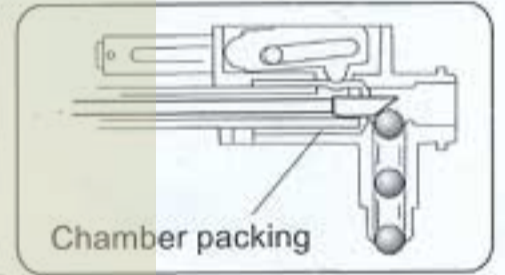
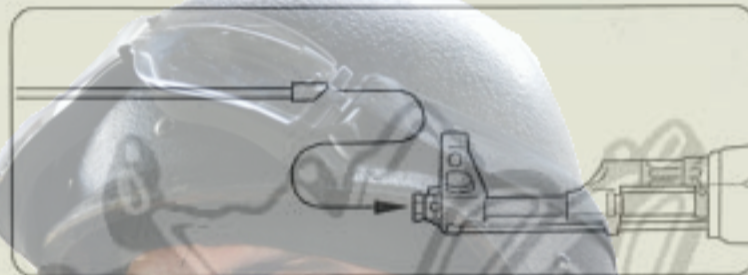
- <Glass tube fuse>
- You can buy it at a near-by electric shop or gas station.
 - 15A Fuse common for electric gun series

2 Removing Clogged Bullets

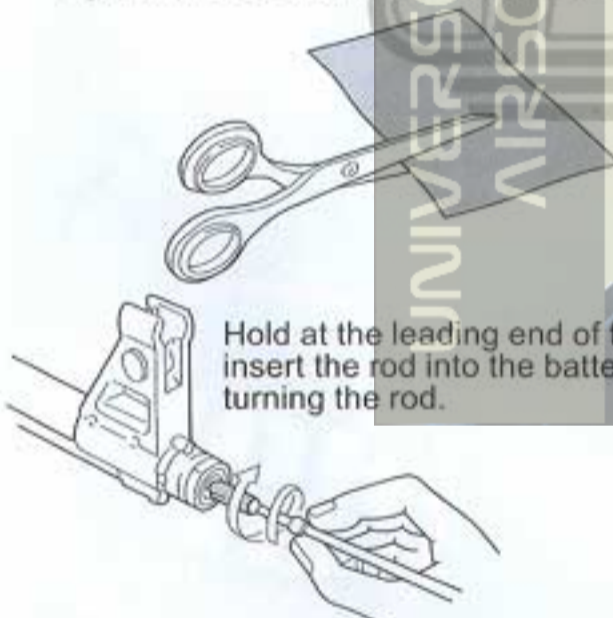
- Insert the cleaning rod from the lead edge of the barrel.
- The dummy cleaning rod attached to the gun cannot be used for the clogging bullet clearing purpose.
- Be careful so that the angled part of the cleaning rod faces down, and remove clogged bullets.

Caution

- Make sure to insert the cleaning rod AFTER returning the hop up lever to the Normal position. (Hop-Off)



3 Maintenance when Bullet Speed Becomes low

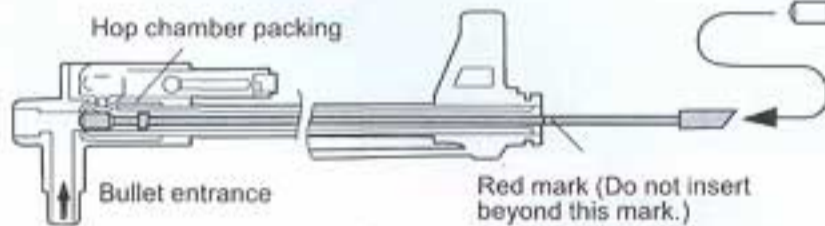


- Cut the cotton to the size shown. Adjust the length accordingly so that it can be inserted smoothly into the barrel.

Caution

- Always carry out maintenance AFTER returning the hop up lever to the Normal position. (Hop-OFF)
- Since the chamber is a precision component, avoid use of used BB bullets.

Inserting the rod will be difficult if you hold rod at the end.



- Drop a few drops of silicone oil or Teflon oil in the bullet entrance. Insert BB bullets into the magazine and fire bullets equivalent to 1 or 2 magazines.
- To complete the cleaning, use the cleaning rod (With cotton) as shown below to remove excess oil.

Apply a few drops of silicone or Teflon oil.

4 Fine Adjustment of Gear Engagement

- Only when the motor noise becomes high after operations for a long period of time. Conduct the fine adjustment as shown.
- (Do not hold by the grip during adjustment. Otherwise, the main body will drop since the grip set screw is removed.)

Caution

- It is recommended to lock the adjustment screw by a screw locking agent or instantaneous adhesive after adjustment of the motor position is complete.
- Normally, do not attempt to adjust.
- Be careful as not to overly tighten the screw as it will damage the gun.

Insert M4 hexagon wrench into the screw hole to adjust.

