

PCR-97

# MILITARY AIRSOFTS



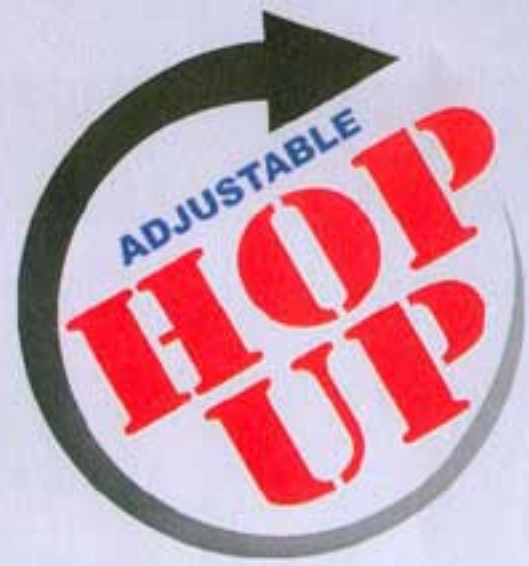
TEAM



airsoftSD.com



Manufactured in Taiwan



## INSTRUCTION MANUAL



## A Brief History of Olympic Arms

Olympic Arms was started as Schuetzen Gun Works (SGW), established in 1956 in Colorado Springs, CO primarily as a barrel manufacturer. The owner learned his trade from his first business partner the famous P.O. Ackley, and continued many of Ackley's work ethics and quality standards in the new enterprise. The company moved to Olympia, WA in 1975, and proceeded to manufacture barrels and related parts under the SGW name.

In 1982 Olympic Arms, Inc. was founded to manufacture AR-15 style components, and other military rifle parts - making Olympic Arms the second oldest continuous manufacturer of AR-style rifles in the U.S.. Originally our AR receivers were marked with not only the Olympic Arms name, but also with the SGW crest. The receivers received the rampant lion found in our logo in 1993, and they have remained that way ever since. We now produce some of the finest AR-style firearms available from a major manufacturer, with our top-of-the-line PCR-1 Ultramatch giving shooters sub-quarter inch groups at 100 yards on a regular basis.

Olympic Arms, Inc. is now the primary company, with the SGW name no longer being used. Olympic Arms has been a driving force in the AR industry since its conception, being the first company to mass produce features that are commonplace today. Some of these include the flattop receiver, the free-floating aluminum handguard, the 9mm conversion, and the AR-based pistol. They also manufacture several other calibers for the AR-series of rifles, many of which can only be found on their website.

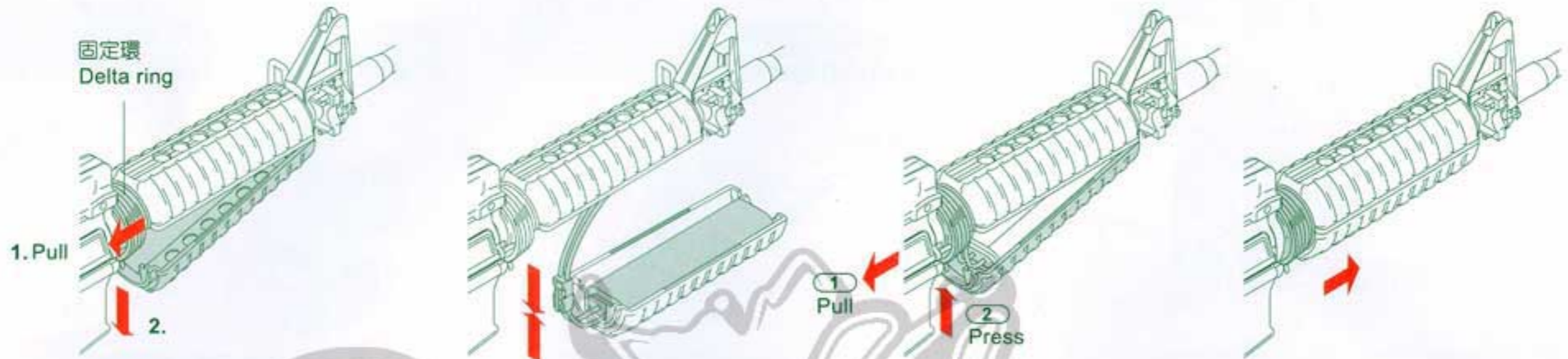
Olympic Arms has also diversified in the last several years, and now manufacture their own bolt action magnum receivers, 10/22-style receivers and barrels, and many different pistol barrels. They also still produce some of the best barrel blanks available on the market today, using methods that they have refined for almost half a century. They are a company based on Old World traditions and standards, using a mix of tried and true techniques and 21st century technology.

## Component Names



ACTION!

2-1



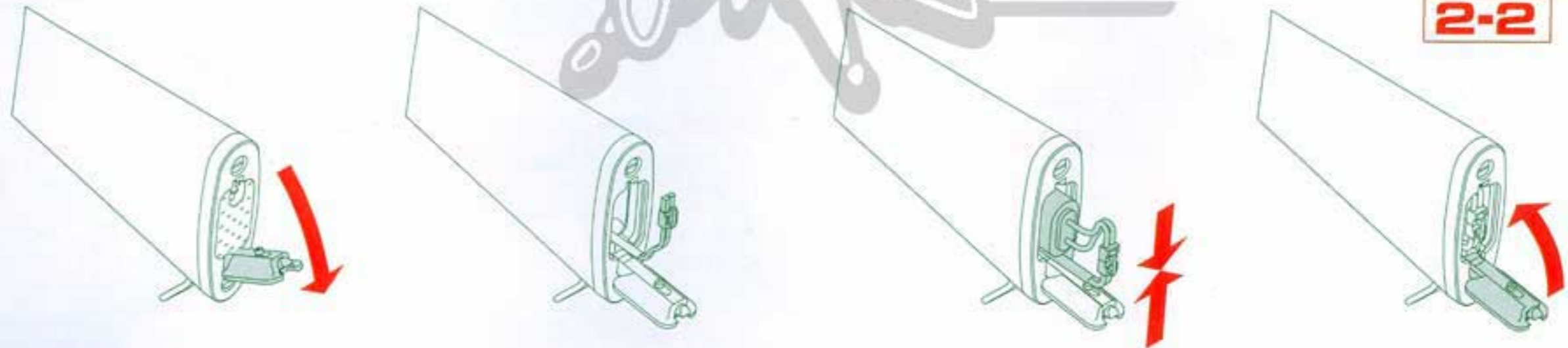
A. 依方向先將固定環往後拉再拆下護木。  
1. Pull back the delta ring.  
2. Take down the hand guard.

B. 將電池放入護木內再接上電線。  
Place the battery inside the hand guard and connect the connectors.

C. 依順序壓下固定環再將護木接上。  
Pull back the delta ring again and insert the hand guard back to place.

D. 護木固定環前推。  
Make sure the hand guard is secured in the delta ring.

2-2



E. 將槍托底板蓋打開。  
Lower the buttplate latch with your fingernail and open the cover.

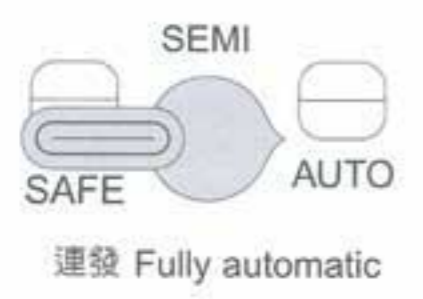
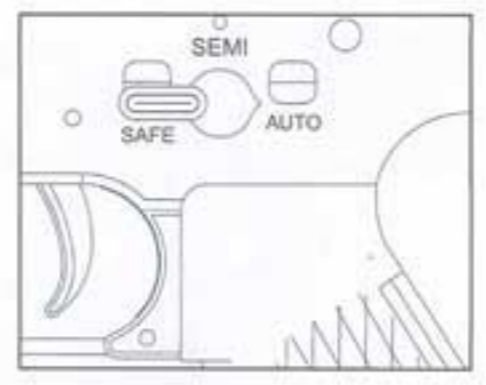
F. 拉出電線。  
Pull out the connector.

G. 將電池裝入接上電線。  
Insert battery into stock as shown and connect the battery.

H. 將電池與電線定位好，再蓋上槍托底板蓋。  
Place the connector in place and close the cover properly.

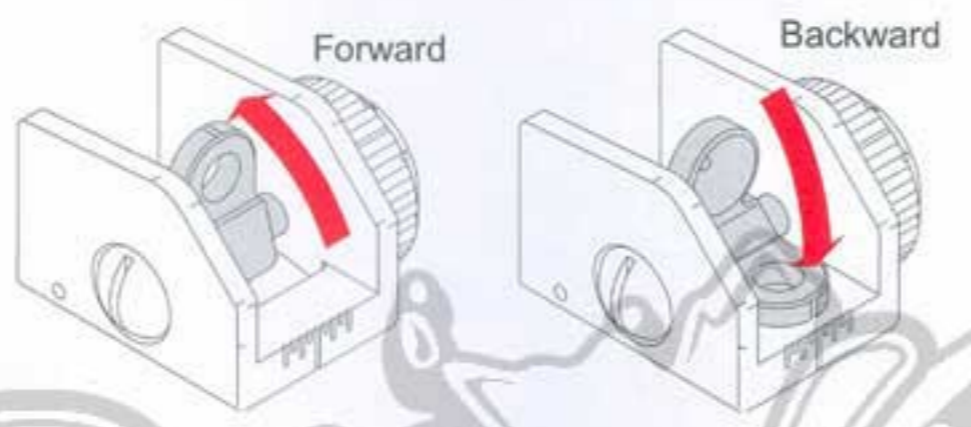
**3**
**精確射擊調整動作**  
**Ironsight adjustment**

**3-1** 單連發選擇方式  
**Selector lever setting**



**3-2** 覘孔調整方式  
**Open sight adjustment**

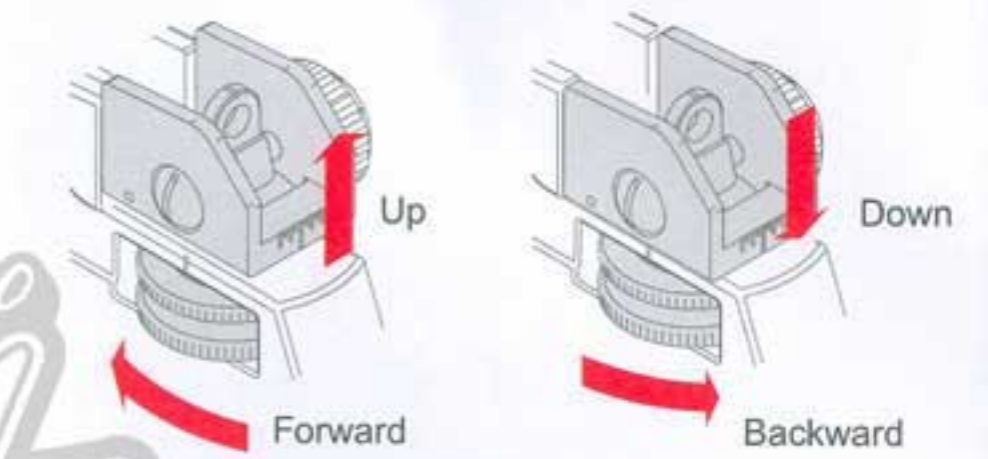
**A: 精密射擊調整**  
**Rear sight precision targeting adjustment**



**近距**  
 將覘孔往前推  
**Common/close-range/  
 low-light shooting.**  
 Push forward to engage  
 battle sight.

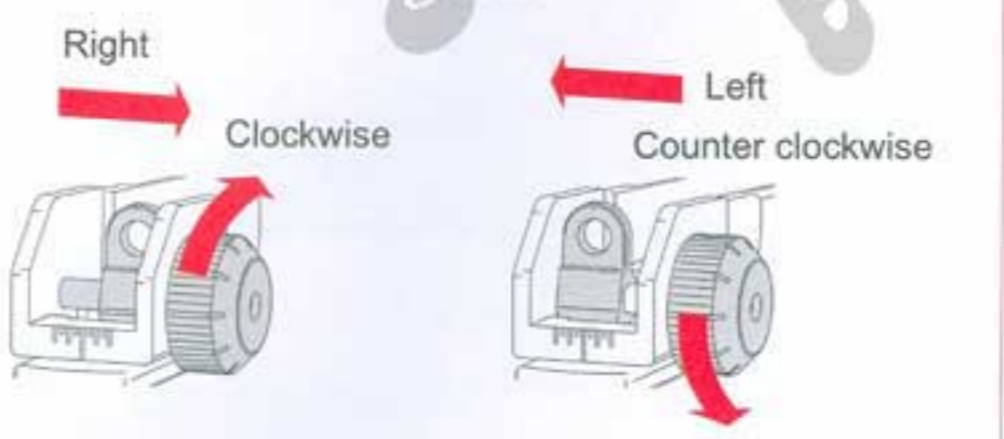
**遠距**  
 將覘孔往後推  
**Precision daylight shooting.**  
 Push backward to engage  
 peep hole.

**B: 覘孔高度調整**  
**Rear sight up-down adjustment**



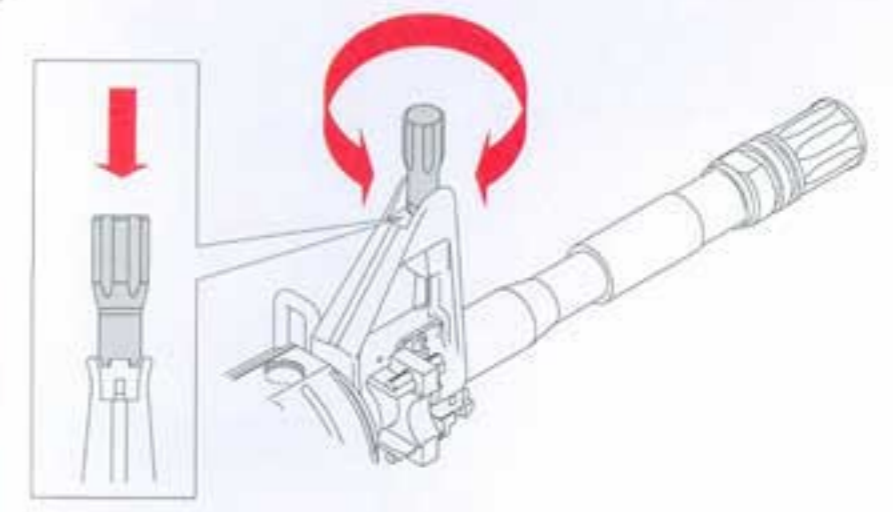
將調整鈕往前轉即可昇高覘孔組，  
 將調整鈕往後轉即可降低覘孔組。  
 Turn the dial forward to raise the hitting point.  
 Turn the dial backward to lower the hitting point.

**C: 覘孔左右調整**  
**Rear sight left-right adjustment**



依旋鈕方向旋轉即可將覘孔組左右調整  
 Turn clockwise to aim right.  
 Turn counter clockwise to aim left.

**3-3** 準星高度調整 **Front sight adjustment**



將準星調整桿壓入定位轉動即可調整高低  
 Turn clockwise to raise B.B. hitting point.  
 Turn counter clockwise to lower B.B. hitting point.

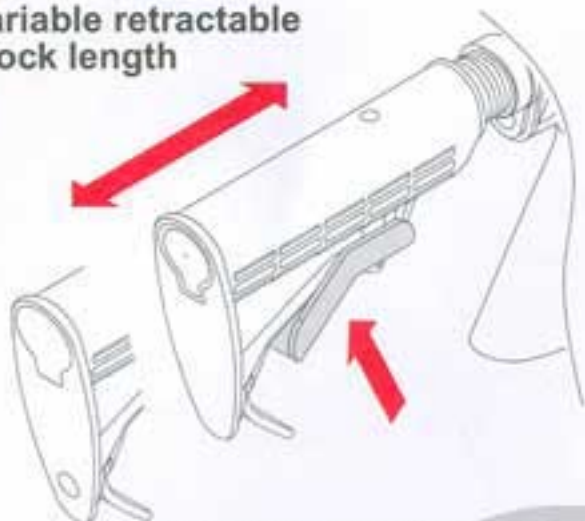
# 4

## 可動部的說明

## Movable parts

### 4-1

伸縮托長度調整  
Variable retractable stock length



按下卡榫，即可將伸縮托向後拉或向前推，共有6段可供調整長度。

Push the stock release lever to unlock. Adjust the 6 position retractable stock to the most comfortable position.

### 4-2

馬達間隙調整  
Fine adjustment of gear engagement

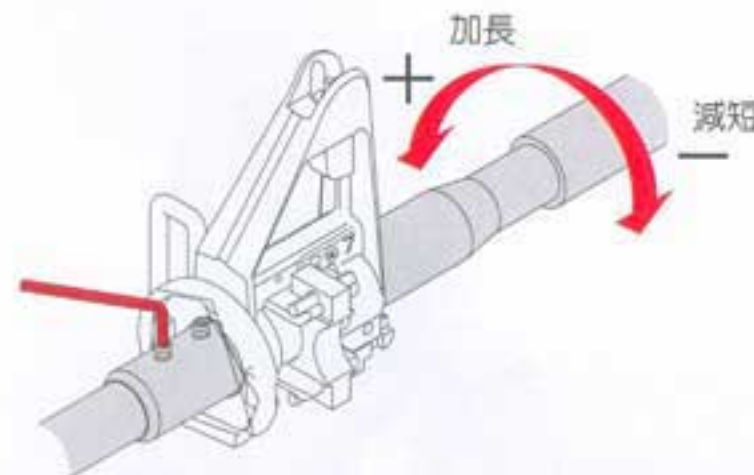


以六角扳手將馬達齒輪間隙調整到最佳位置。(出廠前已調整好)若無特殊需求時，請勿自行調整。

Using a hexagonal allen wrench to fine tune the engagement between motor and gear.

### 4-3

槍管長度變化 Variable barrel length



使用六角扳手，將槍管固定螺絲鬆開，即可旋轉槍管，視配件需求調整槍管長度。

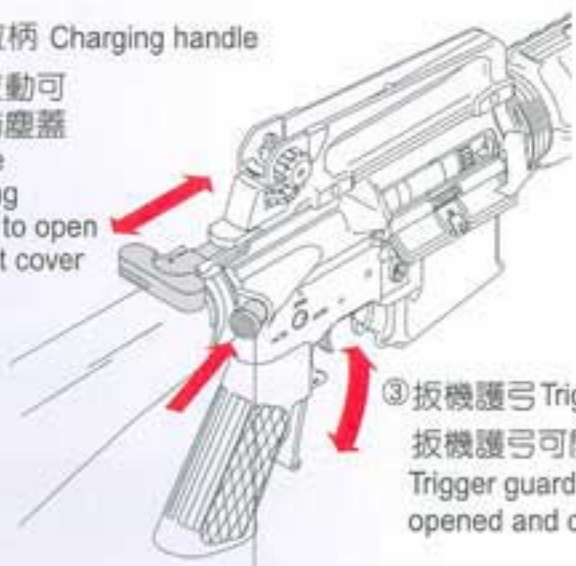
Use a hexagonal wrench to adjust the barrel length to suit best battle position.

### 4-4

可作動作 Movable parts

① 槍機拉柄 Charging handle

拉柄拉動可  
打開防塵蓋  
Pull the  
charging  
handle to open  
the port cover

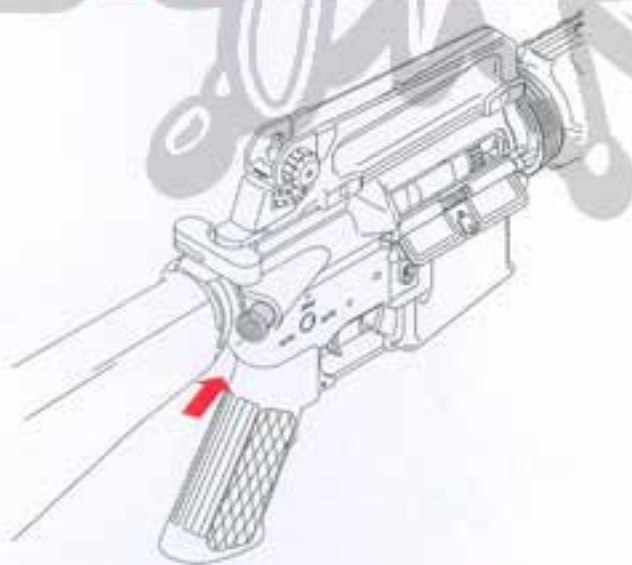


③ 扳機護弓 Trigger guard

扳機護弓可開或關  
Trigger guard can be  
opened and closed

② 槍機助進器  
Forward assist  
knob

槍機助進器能夠推動  
Forward assist knob  
can be pushed.



1.收槍前及不使用時按止逆轉釋放鈕，可將活塞彈簧回覆至原處。

2.槍身做分解時，必須先釋放活塞彈簧，才可做分解動作。

1.Push the forward assist knob to release the spring tension before storage.

2.Push the forward assist knob before you assemble the gear box.

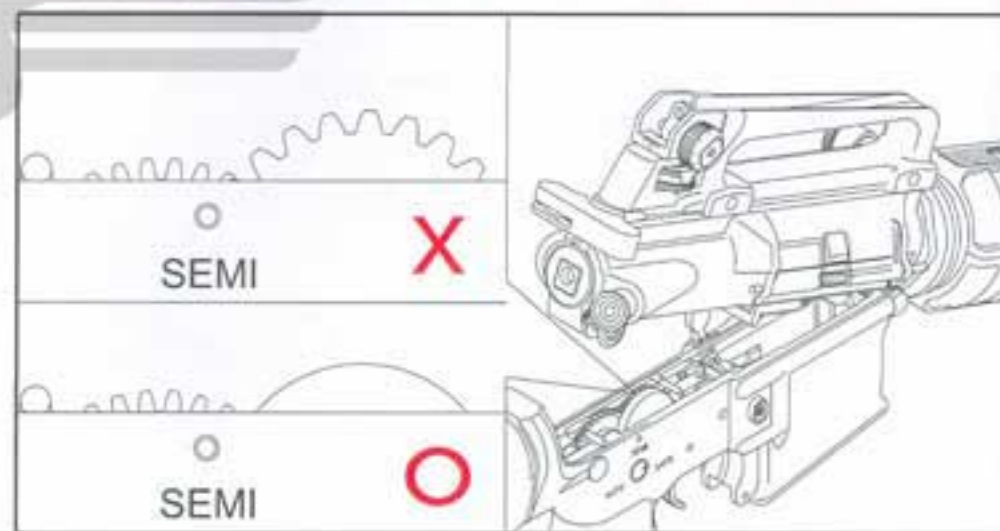
### 4-5

止逆轉釋放鈕  
Forward assist knob

### 4-6

槍身結合3號齒正確位置圖

The correct position of No.3 gear before reassembling



3號齒在槍身結合時，必須轉到正確位置，才可將上槍身蓋下。

Make sure No.3 gear is turned to the correct position before you reassemble the receiver/gearbox.

**5**

彈匣使用方式

Magazine

**5-1**

裝BB彈方式  
load BBs



將彈匣上蓋依箭頭方向推開再倒入B.B.彈  
Open the cover to load BBs. Please use ICS 6mm caliber BBs for optimum Performance.

依箭頭方向旋緊彈匣底下旋鈕，即可將B.B.彈順利送出。  
To charge BB feed spring, please wind magazine.

**5-2**

彈匣上下方式  
Magazine loading and unloading



按下彈匣卡榫即可將彈匣裝入或拆下  
Press the magazine release lever to load or unload the magazine.

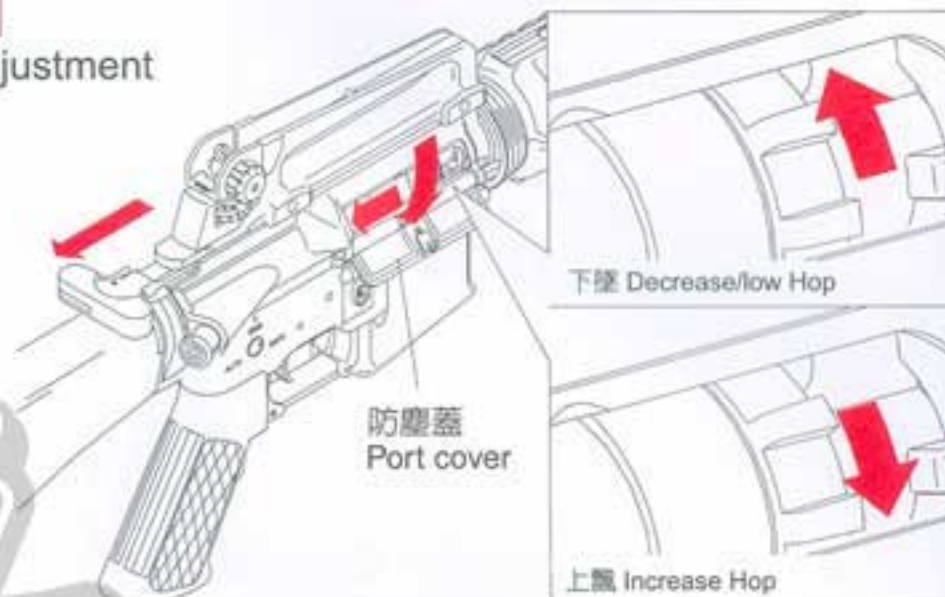
**6**

HOP-UP彈道調整

Hop-up

**6-1**

Hop-up adjustment



防塵蓋  
Port cover

下墜 Decrease/low Hop

上飄 Increase Hop

•將槍機拉柄向後拉，防塵蓋即打開  
•Pull backward the charging handle opens the bolt covers for adjustment of Hop-up unit.

- 調整法：  
子彈如果向上飄，將Hop - up環向上旋轉，如果向下墜就要向下旋轉，讓B.B.彈呈一直線的射出才是正確的位置。
- Adjustment  
Pull back the charging handle this opens the bolt cover for adjustment of Hop-up unit.

**6-2**



✗ 上飄 Decrease adjustment

正確  
Best trajectory

✗ 下墜 Increase Hop

# 7

## 齒輪箱拆解

## Disassemble Gear-box



注意  
CAUTION

※重新組裝時，必須依反向動作組合。

Reassembly is the reverse of disassemblys procedures.

### 7-1

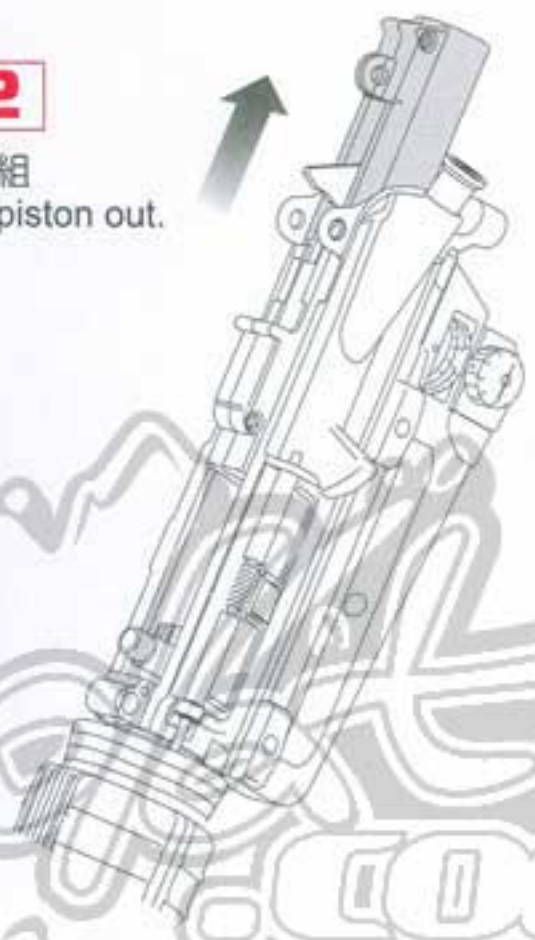


使用起子依方向將槍身結合銷推出即可打開上槍身  
To open upper receiver, use a screwdriver to push out frame lock pins.



### 7-2

拆下活塞組  
Take the piston out.

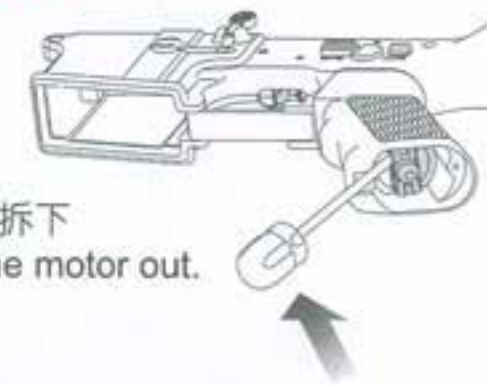


### 7-3



旋開馬達底蓋螺絲  
Take out the screws on the plate.

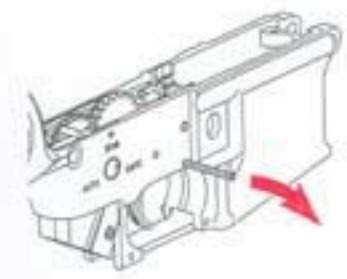
### 7-4



將馬達拆下  
Take the motor out.

### 7-7

OK



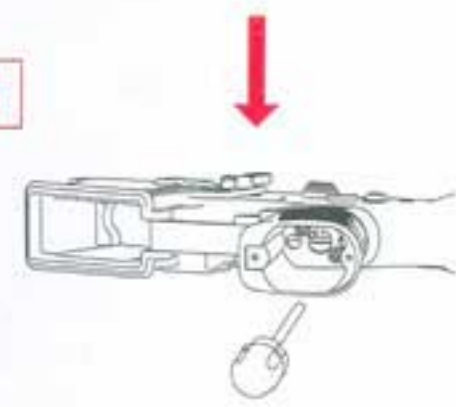
推出齒輪箱與槍身的結合銷，即可分解齒輪箱及槍身  
Push the lock pin to disassemble Gear-box and receiver.

### 7-6



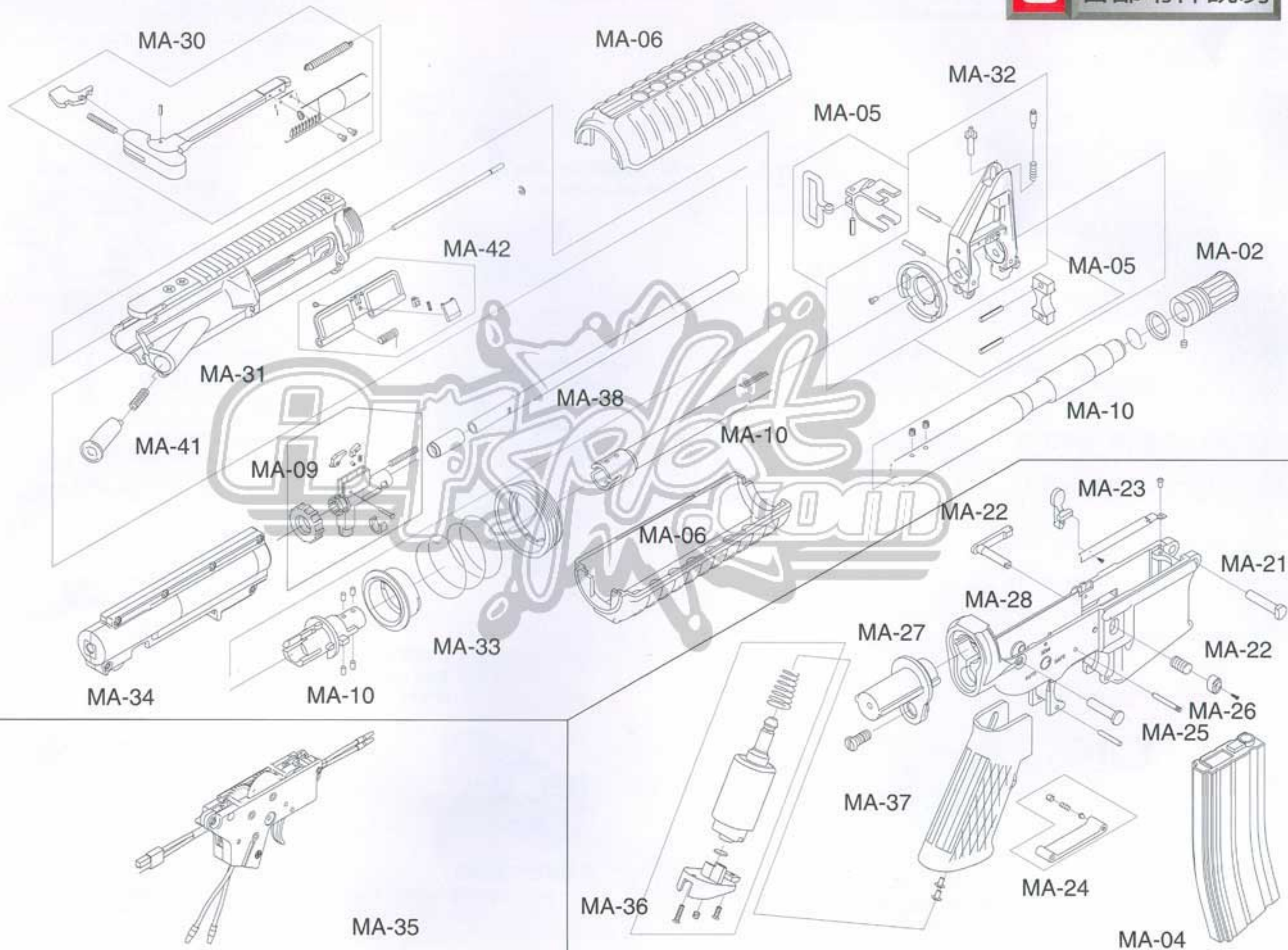
旋開彈匣卡筍螺絲  
Take out magazine release lever.

### 7-5



旋開握把內螺絲  
Take out inner screw in the pistol grip.





## WARRANTY POLICY

Warranty service will be handled by Specialized Distribution. No COD returns accepted. Warranty registration cards are required to be submitted by customers to validate warranty.

1. The CAR-97 comes with a 30 day manufacturers warranty against defects and damage.
2. Warranty begins from the date of the original retail purchase.
3. Warranty is limited to replacement of manufacturer defect components.
4. This warranty does not cover failure to operation due to mishandling, introduction of foreign matter to outer and inner components. Warranty does not cover failure in operation due to breakage of internal components due to introduction of petroleum based solvents or lubricants.
5. Abuse or physical damage to an item will void your warranty. This includes disassembly, removal, modification, or damage to the orange safety markings on the barrel.
6. Warranty will be null and void if improper size, or low quality/grade BB's are introduced into the mechanism.
7. Warranty is void if AirSoft product is disassembled by non-factory authorized personnel.
8. Warranty is only valid in the United States.
9. Warranty does not cover normal wear and tear on: Internal mechanical components, electric motors, gear drives, switches, levers, valves, o-rings, springs, batteries, and or chargers.
10. Warranty only applies to the AirSoft Electric hobby gun. Accessories are not covered by warranty.
11. Warranty does not cover shipping costs, to and from the customer.

## TROUBLE SHOOTING FAQ'S

1. What if the gun doesn't fire?
  - If the rifle stops firing, DO NOT continue to fire. Further engagement of trigger may damage firing mechanism and will NOT be warranted.
  - Check to see if the Battery is properly connected.
  - Make the sure the battery is fully charged.
  - Check to see if the fuse is blown
  - Make sure the Magazine is fully seated into the reciever.
  - Check to see if the Magazine is wound up. DO NOT overwind. This will damage the spring and cause your magazine to misfeed.
  - Check to see if the safety is off. Contact your service technician for assistance.
2. If the gun jams:
  - DO NOT try to disassemble (this will void the warranty)
  - Make sure the magazine and battery are out of the rifle and carefully insert cleaning rod to unjam BB's. **WARNING: Be sure to insert the BB Breaker end of the cleaning rod, and NOT the swab end.** If this does not work, contact your service technician for assistance.

## MAINTENANCE

### Gun

1. Use only the recommended voltage battery, or you may void the warranty.
2. DO NOT Dry fire the gun at any time.
3. To keep the outer appearance maintained, wipe down the gun with a soft cloth and some Silicon Oil.
4. Drop a drop of Silicon or Gear Oil down the BB feed opening (Not the BB load opening). Note: It may take up to 50 rounds to clear the Oil upon subsequent use, before maintaining accuracy.
5. Although your airsoft rifle looks like a real firearm, it is considerably more delicate. DO NOT subject it to strong shock or submerge it in water.

### Battery

1. Store at room temperature
2. Keep out of direct sunlight and heat.
3. Do Not overcharge the battery.
4. When battery becomes hot when charging, remove from charger.
5. Never remove the battery cover, or modify the battery in any way.
6. Do not puncture the battery.

**TREAT YOUR AIRSOFT RIFLE WITH RESPECT. NEVER POINT AT PEOPLE, OR ANIMALS. ALWAYS WEAR THE APPROPRIATE SAFETY GEAR.**



## Specialized Distribution

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