

APS LTD
GUN SPECIALIST 1993

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HANDLING & INSTRUCTION MANUAL

PER SERIES

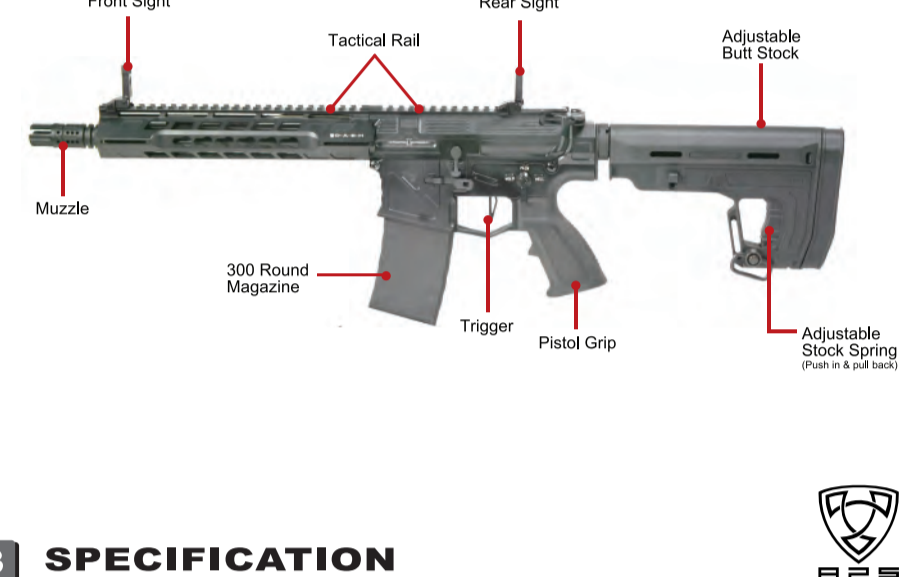
ELECTRIC BLOW BACK GUN



HOT UP SYSTEM

WARNING This gun is not intended for unsupervised use by any persons under the age of 15 years. Always read the instructions carefully before operation.

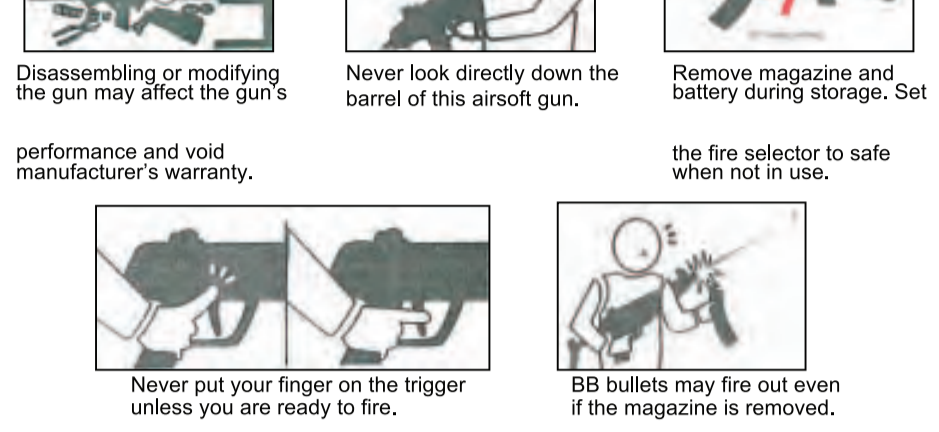
2 LAYOUT STRUCTURE



3 SPECIFICATION

	Barrel Caliber	Barrel Capacity	Pellet	Initial Pellet Speed
PER701	6.08mm	300	6mm BB	105 -130m/s
PER702	6.08mm	300	6mm BB	
PER70D	6.08mm	300	6mm BB	
PER70Z	6.08mm	300	6mm BB	

1 WARNING (RESTRICTED TO USER UNDER AGE OF 18 YEARS)



WARNING This sport gun was developed for enjoying sport shooting only. As the Airsoft Gun has the potential risk of serious injury such as blindness and damage to property, please read all instructions and warnings in this manual before using this airsoft gun.

- This airsoft is capable of shooting 6mm diameter BB. Operate the airsoft with caution and pay attention to safety.
- During a game, always put your goggles on full to wear eye protective gear in the worst case will cause blindness.
- Do not operate the gun when you are not participating in the game to avoid the risk of the extended dangerous firing zone.
- Never shoot any items that subject to break (glass, lens, car, gas bomb, etc).
- Never insert other items than BB into the magazine or gun barrel.
- The gun must not be operated after drinking to avoid possible danger.
- Avoid aiming the gun at public subject to firing or fall. Always wear a plug out of children reach.
- Malfunction of motor or battery will occur if the gun was immersed by water. Stop operating the gun, remove the battery and consult our service department immediately.
- You may be punished if you are shooting for a practical joke. Positive playing manner & enjoy healthy sport shooting is essential.
- Select a safe place for operating the airsoft, avoid places where people and cars pass across or third persons are around.
- Always use the gun in a case or bag when you are carrying it. Avoid giving rise to public panic.
- BB bullets may fire out even the magazine is removed. Direct the muzzle towards a safe area. Pull the trigger to confirm no bullets remain in the gun. Then attach the protective plug to the muzzle when unused.
- Remove the magazine and battery from the gun when unused.

Options 1) Use a AR Stock Spanner Wrench (Castle Nut) to remove the buffer tube. After the tube is removed, you will be able to reach the spring guide of the gear box

Options 2) Use a long Allen key to remove the spring guide from the gear box directly

17 TROUBLESHOOTING GUIDE

Status	Cause	Action
No operation at all	Fire selector is set to SAFE	Set the fire selector to semi or full auto
	Battery is not charged	Fully charge the battery
	Battery connector is disconnected or reversed	Contact the connector correctly
	Fuse is blown	Replace the fuse
Although the motor is running, no BB's fire	Floor motor electrical connection	Check and repair the motor
	Expired motor life	Replace a new motor
	Magazine is not fully placed into the receiver	Replace the magazine into receiver and turn the gear wheel. If it still doesn't work, contact customer service and ask for assistance
Bullets are clogged in Hop up system or barrel	Fully gear	Use the cleaning rod to remove clogged BB's
	Levers may be broken	Please contact customer service and ask for assistance
Full auto not functioning	Inefficient battery power	Charge the battery
	Fully BBs feed from magazine	Using the cleaning rod to remove clogged BB's
Semi auto not functioning	Deviation in gear timing	Fire 5-6 rounds in full auto then switch back to semi auto again
	Inefficient battery power	Charge the battery
BBs roll out from barrel	Fully BBs feed from magazine	Use the cleaning rod to remove clogged BB's
	Hop up or barrel damaged	Please contact customer service and ask for assistance
Shooting distance greatly reduced	Fully or poor quality of BB	Use higher quality BB
	Hop-up or barrel damaged	Please contact customer service and ask for assistance
	Piston or O-ring damaged	
	Deteriorated piston spring	
Loud operation noise	Gear problem caused by excessive dry	
	Fully BBs	
	Damaged Gears	Please contact customer service and ask for assistance
Gun has been immersed by water	Problem caused by engagement between the motor and gears	Do not turn the engagement between the motor and level gears by yourself, contact customer service and ask for assistance
	Stop Operation immediately and disconnect the battery. Wipe off any excess water from inside the body and from the battery. When ACO is completely dry, wait 10 minutes before recharging. If no operation or signs of malfunction is observed, please contact customer service and ask for assistance.	

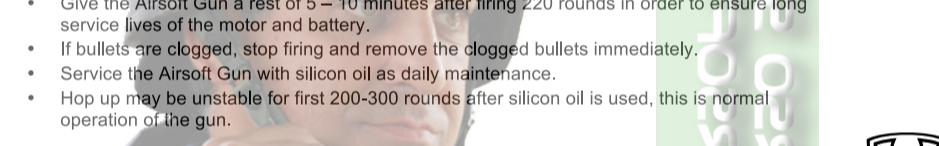
16 Quick Change Spring System



4 FIRING OPERATION

WARNING Keep the airsoft gun in the "HOLD" position until you are actually ready to shoot. Then turn the safety to the other two positions.

Note: This airsoft gun fires in semi or full auto-mode. Full auto means it continues to fire plastic BBs as long as you hold the trigger. Semi-auto means you will have to pull the trigger to fire a shot.



Selecting Firing Mode

- Locate the "HOLD" on the left side of the receiver.
- Turn the lever to "PAIR" for semi-auto mode.
- Turn the lever to "HELL" for full-auto mode.
- The airsoft gun is off "HOLD" and ready to fire when pointing to either "PAIR" or "HELL".
- Once in desired mode, point of predetermined target and pull trigger.

CAUTION

- Confirm your firing area is safe before firing.
- There are possibilities that no BB comes out after pulling the trigger. This may happen when new magazine is inserted. Switch to Full Auto and fire 5-10 shots will solve this problem.
- Change the battery if the firing cycle becomes slow.
- Give the Airsoft Gun rest of 5-10 minutes after firing 200 rounds in order to reduce firing cycle length of the motor and battery.
- If bullets are clogged, stop firing and remove the clogged bullets immediately. Service up again. Optimal silicon oil can only be applied.
- Hop up may be unstable for first 200-300 rounds after silicon oil is used. This is normal operation of the gun.

5 FUSE DEVICE

- Maximum voltage should be 15V and Amperes is 20A value. Fuse is required to protect against the motor and gear box.
- During installation, make sure the electrical conductor is insulated.
- Replacing the fuse device in a ventilated area and avoid direct contact with human body.
- If there is a bad connection between the push-button, connect it to the ground and press the trigger and cut off the power immediately. Check the fuse and fix the gear box before using again to avoid damage of the electronic component.



6 INSTALL BATTERY

This airsoft gun will not function properly without a fully charged battery. Charge the battery 6 hours prior to initial use. Do not overcharge the battery. Unplug the battery charger when not in use.

WARNING Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION Use caution when handling and using the battery or charger to prevent the risk of electric shock.

To prolong battery life and maintain the best shooting performance rest the gun for 10 minutes after shooting. For optimum performance completely use up the battery before recharging. **DO NOT OVERCHARGE THE BATTERY. UNPLUG THE BATTERY CHARGER WHEN NOT IN USE.**

Loading the Battery

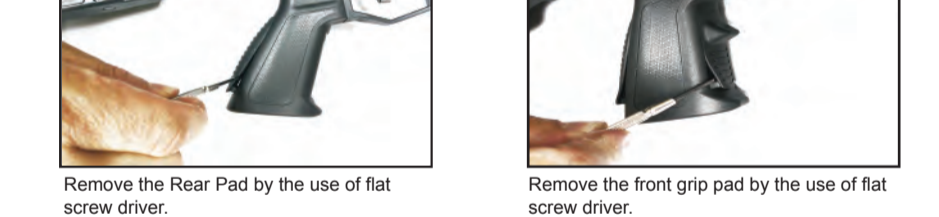
- Make sure the airsoft gun is on "Hold" (see section 8).
- UNLOADED and pointed in a SAFE DIRECTION.
- Insert the battery into the RS-1 Stock.
- Place the connector in the space around the buffer tube.
- Close the stock pad once the battery is connected.

14 Phantom Low Profile Front Sight



- The front sight could be flip up or down.
- Adjust the height of aiming by turning the wheels on the sight.

15 Exchangeable Grip Pad



Flip Up Dinosaurs Sight (Rear)



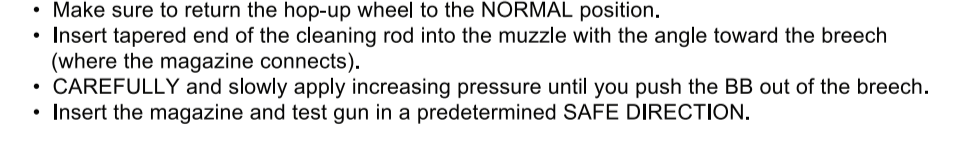
Standard PER Rifles comes with extra grip pads with different thickness for your choice.

12 BASIC MAINTENANCE (REMOVING JAMS & BARREL CLEANING)



Cleaning Jammed BBs

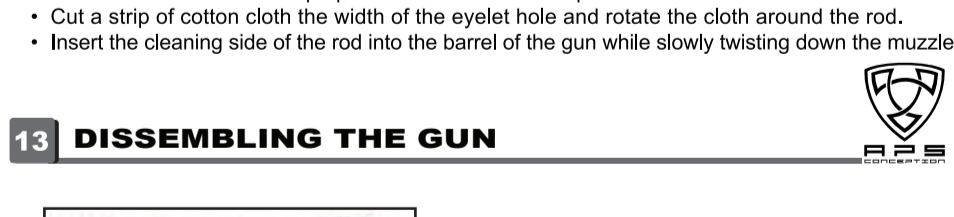
- Never look down the end of the barrel to see if debris have been cleared.
- Make sure the airsoft gun is on "HOLD" and pointed in a SAFE DIRECTION.
- Remove the magazine.
- Make sure to return the hop-up wheel to the NORMAL position.
- Insert tapered end of the cleaning rod into the muzzle with the angle toward the breech (where the magazine connects).
- CAREFULLY and slowly apply increasing pressure until you push the BB out of the breech.
- Insert the magazine and test gun in a predetermined SAFE DIRECTION.



Cleaning the Muzzle

- Maintenance is needed when BB speed becomes slow.
- Never look down the end of the barrel to see if debris have been cleared.
- Make sure the airsoft gun is on "SAFE" and pointed in a SAFE DIRECTION.
- Remove the magazine.
- Make sure to return the hop up wheel to the NORMAL position.
- Put a strip of cotton cloth the width of the eyellet hole and rotate the cloth around the rod.
- Insert the cleaning side of the rod into the barrel of the gun while slowly twisting down the muzzle.

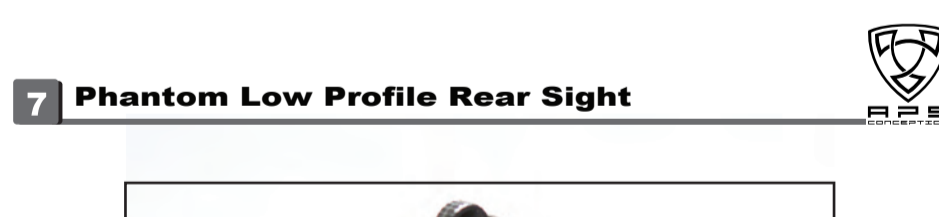
13 DISASSEMBLING THE GUN



- Remove the magazine.
- Remove the cover of the front pin by an allen key.
- Punch the front pin out.
- Slide the upper parts out as basic dissembling.

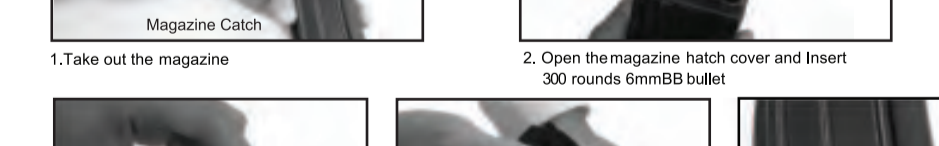
Remove the frame lock pin using a screw driver

7 Phantom Low Profile Rear Sight



Adjust the rear sight by turning the dial up wheel forward will make the sight go left and right. Turning the dial up wheel backward will make the sight go up and down.

6 FILLING THE MAGAZINE

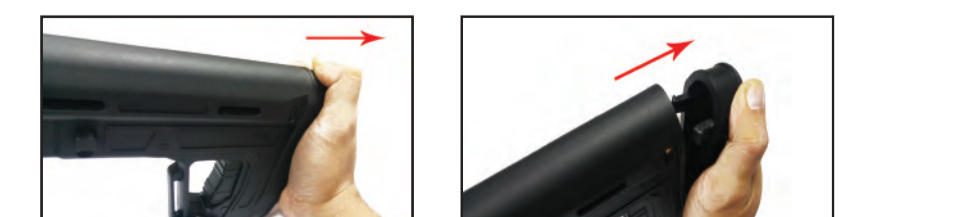


9 EXTEND THE BUTT STOCK

The butt stock is extendable by pulling the button of the stock. Slide the butt stock backward by holding up the button. There are 6 position extendable for your choice.



10 INSTALL BATTERY (RS-1 STOCK)



11 HOP UP ADJUSTMENTS

CAUTION

- The best position is where the BBs fly horizontally and the longest flying distance is obtained.
- Turning excessively adversely affects the trajectory. Stop turning the dial when BBs fly horizontally.
- Moving the lever to much towards HOP will cause bullets to clog. Dial the gun with clogged BBs will damage the piston and gears.
- If the hop-up is adjusted excessively and causing the BBs to clog, stop operating the gun immediately. Return the lever to NORMAL and remove the clogged BB's (see section 7).
- Black Ops™ will not be held responsible for any damages or accidents caused by incorrect operation, disassembly, or modification of the airsoft gun.

Using the Hop-Up Mode

- This airsoft gun is manufactured with an adjustable hop-up system.
- The purpose of this system is to change the spin on the BB as it leaves the muzzle, allowing you to adapt your shot for different distances.
- Pull out and hold the charging handle to open the ejection port cover.
- Turn the hop-up adjustment dial clockwise for more spin, counterclockwise for less spin.

