

HANDLING & INSTRUCTION MANUAL (For All PR Model Use) PR 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.



APS LTD
GUN SPECIALIST 1993

ACCURACY PNEUMATICS SHOOTING

www.aps-concept.com

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



Always wear goggles or eye protective gear when shooting.
Never point the muzzle at unprotected people or animals.
Always keep the airsoft out of reach of children.
Disassembling or modifying the gun may affect the gun's performance and void manufacturer's warranty.
Never look directly down the barrel of this airsoft gun.
Remove magazine and battery during storage. Set the fire selector to safe when not in use.

Never put your finger on the trigger unless you are ready to fire.
BB bullets may fire out even if the magazine is removed.

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. Fall to wear eye protective gear in the event case will cause blindness.
- Always pay attention to the people who are subject to the gun in the game and do not aim at the estimated dangerous target zone.
- Never shoot any items that subject to break (glass, lamp, car gas bomb, etc.)
- Never insert other items other than BB into the magazine or gun barrel.
- The gun must not be operated after drinking or taking any possible danger.
- Accident during the game at each subject to drop or fall. Always store at place 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 use. Positive playing manner & enjoying healthy sport shooting is essential.
- Select a safe place for operating the airgun, avoid places where people and cars pass across or third persons are around.
- Always put the gun in a case or bag when you are carrying it. Avoid giving face 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 bullet remains in the gun. Then attach the protective plug to the muzzle when uncocked.
- Remove the magazine and battery from the gun when uncocked.

13 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	Connect the connector correctly
Although the motor is running, no BB's fire	Fuse is blown	Replace the fuse
	Blown motor fuse	Check and repair the motor
	Magazine is not fully inserted into the receiver	Re-load a new motor
Full-auto not functioning	Magazine is not fully inserted into the receiver	Load the magazine into receiver and turn the gear wheel. If it still doesn't work, contact customer service and ask for assistance
	BBs are clogged in hop up system or barrel	Use the cleaning rod to remove clogged BBs
	Faulty gear	Please contact customer service and ask for assistance
Semi-auto not functioning	Faulty gear	Please contact customer service and ask for assistance
	Insufficient battery power	Change the battery
	Overload in gear timing	Use the cleaning rod to remove clogged BBs
BBs roll out from barrel	Overload in gear timing	Use the cleaning rod to remove clogged BBs
	Insufficient battery power	Change the battery
	Faulty BBs feed from magazine	Use the cleaning rod to remove clogged BBs
Shooting distance greatly reduced	Hop-up or barrel damaged	Please contact customer service and ask for assistance
	Faulty or poor quality of BB	Use higher quality BB
	Piston or O-ring damaged	Please contact customer service and ask for assistance
Load operation noise	Deteriorated piston spring	
	Gear problem caused by excessive dry firing	
	Faulty BBs	Please contact customer service and ask for assistance
Gun has been immersed by water	Damaged Gears	Please contact customer service and ask for assistance
	Problem caused by engagement between the motor and gears	Do not turn the engagement between the motor and gears by yourself, contact customer service and ask for assistance
Gun has been immersed by water	Stop Operation immediately and disconnect the battery. Wipe off any excess water from inside the body and from the battery when AED is completely dry. Wait the 10 operation or signs of malfunction is observed, please contact customer service and ask for assistance	

2 LAYOUT STRUCTURE



3 SPECIFICATION

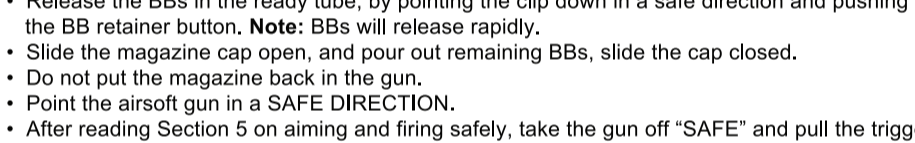
	Barrel Caliber	Barrel Capacity	Pellet	Initial Pellet Speed
PR301	6.08mm	300	6mm BB	105 - 130m/s
PR302	6.08mm	300	6mm BB	
PR303	6.08mm	300	6mm BB	
PR304	6.08mm	300	6mm BB	
PR305	6.08mm	300	6mm BB	

4 FILLING THE MAGAZINE

WARNING Never assume that because the airsoft gun no longer fires a BB and the loading chamber is removed, that a BB is not lodged in the barrel. Always treat the airsoft gun as though it is loaded and with the same respect you would a firearm.

To Load BBs

- Make sure the airsoft gun is on "SAFE" (see section 8) and pointed in a SAFE DIRECTION.
- Use 6mm plastic BBs only in this airsoft gun. Use of any other ammunition may cause injury to you or damage to the airsoft gun. We recommend using .20g 6mm Biodegradable BBs.
- While supporting the magazine, push the magazine release button and remove the magazine.
- Slide open the magazine cover.
- Insert 300 rounds of 6mm airsoft BBs.
- Close the magazine cover.
- Rotate the wind up wheel counterclockwise only to draw BBs up into the ready tube. Turn the gear wheel until the "click click" sound changes. This click should be done in a vertical position.
- Insert the loaded magazine back into the airsoft gun.



To Unload BBs

- Make sure the airsoft gun is on "SAFE" and pointed in a SAFE DIRECTION.
- While supporting the magazine, push the magazine release button and remove the magazine.
- Release the BBs in the ready tube, by pointing the clip down in a safe direction and pushing the BB return button. Note: BBs will release rapidly.
- Slide the magazine cap open, and pour out remaining BBs, slide the cap closed.
- Do not put the magazine back in the gun.
- Point the airsoft gun in a SAFE DIRECTION.
- After reading Section 5 on aiming and firing safely, take the gun off "SAFE" and pull the trigger.
- Repeat these steps until you are no longer firing plastic BBs.
- Put the airsoft gun back on "SAFE".

5 ADJUSTABLE SIGHTS & ADJUSTABLE STOCK

To Adjust Sight

- Unscrewing the left side wheel will allow you to unmount the sight and move to desired position on tactical rail.
- Turning the right wheel will adjust the left and right position of the scope.

To Adjust Stock

- To extend the length of the butt stock, press the adjustable stock spring in and pull backwards.

14 ADVANCED MAINTENANCE AND THE DISASSEMBLING THE GUN

WARNING Any advanced cleaning of the airsoft weapons should be done by an adult, ages 18 years or older, preferably someone with advanced airsoft knowledge and training.

Advanced Maintenance

- To ensure the life of the airsoft gun routine inspections and maintenance should be performed.
- Advanced maintenance and disassembling of this airsoft gun includes lubricating and cleaning the parts of the gun that are difficult to reach.
- Modification of the gun mechanism may cause a gun to malfunction and tampering with a gun may make it unsafe to use.
- Any change in the airsoft guns performance, such as lowered trigger force and shortened trigger travel may indicate possible wear and should be inspected, replaced, or properly repaired, and repairs should only be made by qualified personnel.
- Unauthorized tampering of this airsoft gun will void the manufacturer's warranty.

12 AIMING AND FIRING SAFETY

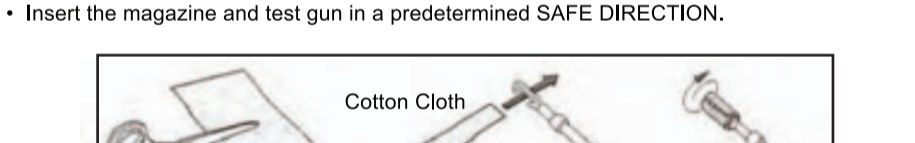
- Always assume and treat airsoft gun as if it were loaded and ready to fire, treat with the same respect you would a firearm.
- Always handle and operate airsoft guns safely.
- User should obey all laws regarding the usage and ownership of airsoft electric guns.
- Facial protection is required, you and others with you should always wear eye protection designed for airsoft use.
- Always point your airsoft gun in a SAFE DIRECTION.
- Always keep your airsoft gun in a SAFE DIRECTION.
- Never keep your fingers away from the trigger during loading and handling. Keep your finger away from the trigger and SAFETY until you are ready to fire. After firing, return safely to the "ON" position.
- Never shoot items other than airsoft BB into the magazine or gun barrel.
- DO NOT reuse plastic BBs because they could possibly cause damage to you or your airsoft gun.
- Your airsoft gun is designed for target shooting and is suited for both indoor and outdoor use. Always remember to place your target carefully. Think about what you will hit if you miss the target.
- Always keep the airsoft gun on "SAFE" and ready to shoot in a SAFE DIRECTION.
- Always check to see if the airsoft gun is on "SAFE" and unloaded when getting it from another person or from storage.
- Always wear eye protection designed for airsoft over your regular glasses.
- Use 6mm plastic BBs only. Use higher quality BBs.
- Never operate after drinking alcohol or any possible danger.
- Backstop should be responsible for area before and after each use. Discontinue use if the backstop surface shows signs of failure. Since backstop surfaces eventually fail, always place the backstop in a location that will be safe should the backstop fail. Discontinue the use of a backstop if the projectile rebounds or ricochets.
- Never shoot any items that could break, shatter, or explode. Avoid rocks. Never shoot at head or flat surfaces or at water.
- Malfunction of motor or battery will occur if the gun is immersed in water. Stop operating the gun, remove the battery and consult our service department immediately.
- Check any gun that has been dropped to ensure that its function has not been affected.
- It is possible that BBs may fire even if the magazine is removed. Direct the muzzle towards a SAFE AREA. Pull the trigger to confirm no bullet remains in the gun.
- After use and before putting the airsoft gun away, always make absolutely sure that there are no BBs in the gun, the magazine is removed, the safety is "ON" and the battery is removed.
- The airsoft gun and BBs should be kept in separate and secured places. Always keep the airsoft gun out of reach of children.
- Do not load the airsoft gun until you are ready to fire. Do not walk, run, jump or drive when carrying a loaded airsoft gun. A loaded airsoft gun should never be carried inside a vehicle. Always keep the safety "ON", even when the airsoft gun is unloaded.
- Do not attempt to disassemble or tamper with your airsoft gun.
- DO NOT MODIFY OR ALTER YOUR AIRSOFT GUN. Attempts to modify the airsoft gun in any way may make your airsoft gun unsafe to use, cause serious injury or death and void the warranty.
- 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.
- Always put the gun in a case or bag when you are carrying it, to avoid giving rise to public panic.
- Safety is safe place for operating the air gun. Avoid shooting in public places.
- Always store this airsoft gun in a secure location, and always store out of the reach of children.
- Always put the gun in a case or bag when you are carrying it, to avoid giving rise to public panic.

10 BASIC MAINTENANCE (REMOVING JAMS & BARREL CLEANING)



Cleaning Jammed BBs

- Never look down the end of the barrel to see if a jam has 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.
- 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.
- Insert a strip of cotton cloth of the width of the eyelet hole and rotate the cloth around the rod.
- Cut the cleaning side of the rod into the barrel of the gun while slowly twisting down the rod.

INSTALL BATTERY

This airsoft gun will not function properly without a fully charged battery. Charge the battery 8 hours prior to initial use. Do not overcharge the battery. Unplug the battery charger when not in use.

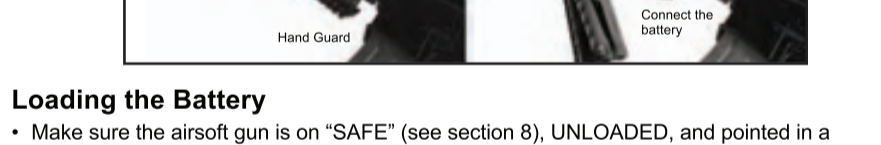
WARNING Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 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 "SAFE" (see section 8), UNLOADED, and pointed in a SAFE DIRECTION.
- Slide the delta ring back and remove the bottom of the quad rail.
- Insert the battery in the quad rail as shown and connect the battery to the gun.
- Place the connector in the space around the barrel.
- Place the front end of the quad rail back into position, being sure to hold the battery in place.
- Slide the delta ring back and lock the delta ring into position.

7 FIRING OPERATION

WARNING Keep the airsoft gun in the "SAFE" position until you are actually ready to shoot. Then turn the fire selector 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 safety on the left side of the receiver.
- Turn the lever to "SEMI" for semi-auto mode.
- The airsoft gun is off "SAFE" and ready to fire when pointing to either "SEMI" or "AUTO."
- Once in desired mode, point at predetermined target and pull trigger.

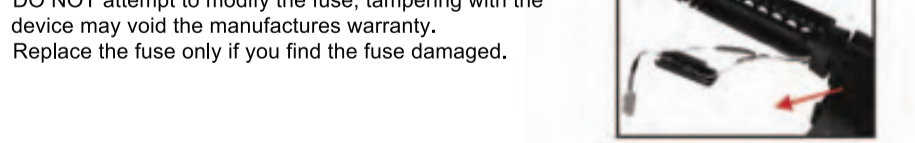
CONFIRM NOTICE:

- Confirm your firing area is safe before firing.
- When a new magazine is inserted there is a possibility that a BB will not fire after pulling the trigger. To solve this problem switch to full-auto and fire a burst of 5-10 shots.
- Charge the battery if the firing cycle becomes slow.
- Give the gun a rest of 5-10 minutes after firing 220 rounds to ensure the life of motor & battery.
- If bullets are clogged, stop firing and remove the clogged bullets immediately (see section 8).
- Service the Airsoft Gun with silicone oil as daily maintenance (see section 10).
- Hop up may be unstable for first 200-300 rounds after silicone oil is used. This is normal operation.
- Backstops should be inspected for wear before and after each use. Discontinue use if the backstop surface shows signs of failure. Since backstop surfaces eventually fail, always place the backstop in a location that will be safe should the backstop fail.
- Discontinue the use of a backstop if the projectile rebounds or ricochets.

8 CHECKING THE FUSE

Checking the Fuse

- Maximum Voltage allowed is 12V and Ampere is 20A below.
- DO NOT attempt to modify the fuse, tampering with the device may void the manufacturer's warranty.
- Replace the fuse only if you find the fuse damaged.



9 FIRING OPERATION

CAUTION

- The best position is where the BBs fly horizontally and the longest firing 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. Firing 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 (see section 7).
- Back 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.

