



RADIANMODEL 1



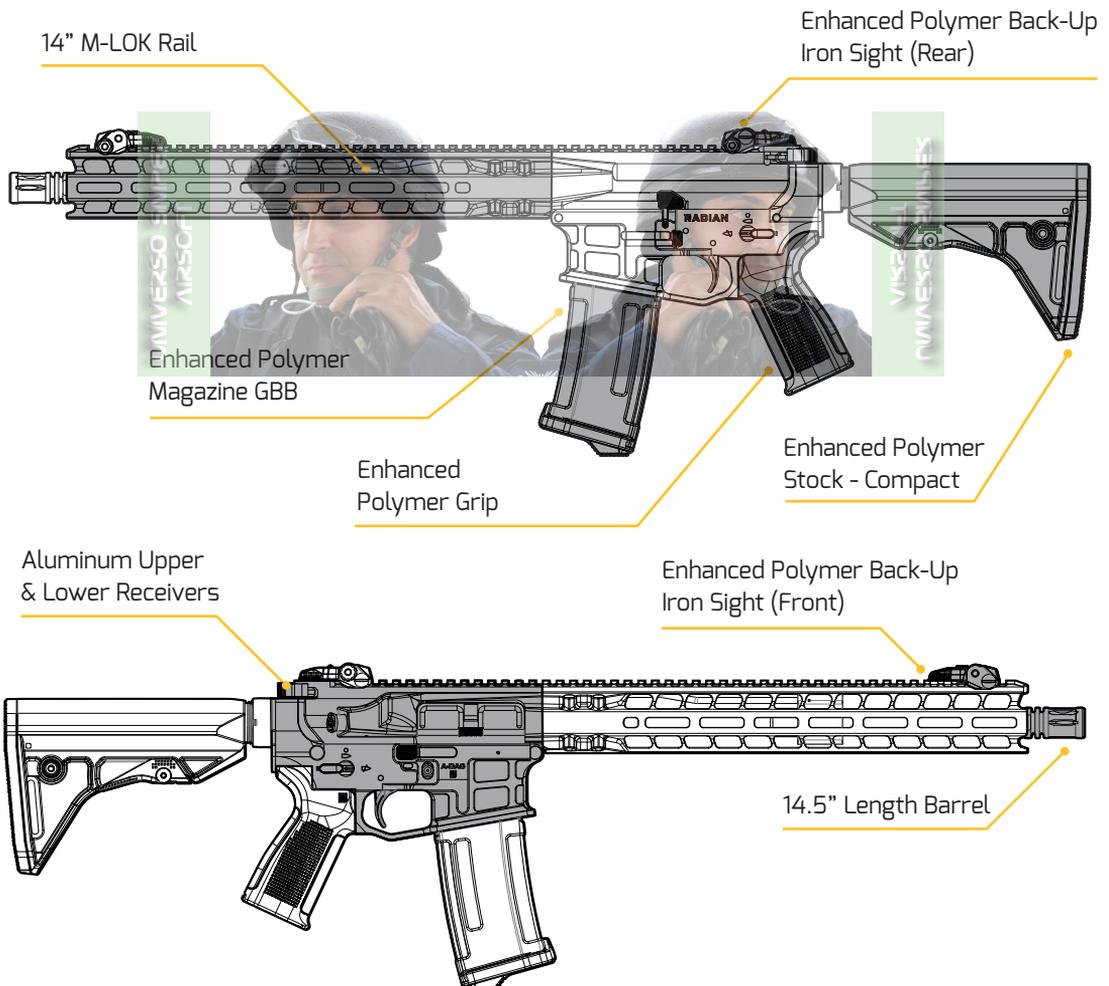
INSTRUCTION MANUAL



FOR TRAINING & SIMULATION ONLY

CORE FEATURES

- ▶ Fully ambidextrous controls including the magazine release, safety selector, Raptor charging handle, bolt catch, and bolt release
- ▶ Proprietary patented A-DAC (Ambidextrous Dual Action Controls) allows right handed shooters to easily lock the bolt to the rear without taking their hand off the fire control. To hold the bolt back using the A-DAC, simply pull the charging handle to the rear, depress the right-side magazine release button, then release the charging handle.
- ▶ Realistic construction and field stripping.
- ▶ Semi Auto and Full Auto select fire modes.
- ▶ Adjustable hop-up system.
- ▶ Integrated PTS EP Series Flip-up Front and Rear Back-up Sights, Compact Stock and Grip.
- ▶ Proprietary billet lower and upper receiver design with proprietary matched machined aluminum alloy handguard.
- ▶ M-LOK rail mounting system.
- ▶ 14.5" Length Barrel.
- ▶ 14" M-LOK Rail



SAFETY INSTRUCTIONS AND HANDLING

You should be fully familiar with the proper and safe handling of your airsoft gun. The basic principles of gun safety require you to always apply the following rules when handling airsoft guns:

- ▶ Always treat an airsoft gun as if it were loaded.
- ▶ Always set the safety selector on an airsoft gun to "SAFE" when loading it so that there can be no risk of an unintentional discharge.
- ▶ Keep your finger off the trigger and outside the trigger guard until you are ready to shoot.
- ▶ Always keep the muzzle pointed in a safe direction.
- ▶ Never aim your airsoft gun at persons, animals or property. To avoid ricochets, never fire at smooth, hard surfaces or water.
- ▶ Before you discharge your airsoft gun, make sure that the target and surrounding area is safe. Always be aware of your target's foreground and background.
- ▶ Proper eye protection should always be worn when firing an airsoft gun.
- ▶ Always store your airsoft gun in a safe place, in an unloaded condition and out of reach from children.
- ▶ This airsoft gun (along with its operating instructions) may only be handed over to persons who have reached the age of 18 (or older) and who are fully familiar with the handling of it.
- ▶ Modifications and/or repairs to the airsoft gun should only be completed by authorized agencies or by a skilled gunsmith.
- ▶ Never leave a loaded airsoft gun unattended.
- ▶ Only an unloaded airsoft gun is to be handed over to another person.

CAUTION

- ▶ You must be 18 years or older to purchase this airsoft gun.
- ▶ Any alteration or conversion done to this airsoft product that leads to a different classification of the airsoft gun/weapon in regards to the applicable firearms legislation may render it illegal. If these circumstances occur, the manufacturer's warranty becomes immediately null and void.

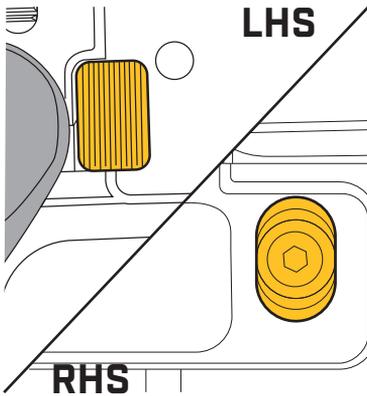
WARNING

- ▶ Do not brandish or display this airsoft product in public - it may confuse people and may be a crime in your area. Police and others may view it as a firearm and they may react under that assumption.
- ▶ Do not change the coloration and markings to make it look like a real firearm. That is dangerous and may be a crime.
- ▶ Observe safe firearm handling practices at all times. Failure to do so may result in serious bodily injury or death.
- ▶ PTS is not responsible for injury, death or property damage resulting from faulty installation, misuse, illegal use, or modification of this product.
- ▶ PTS products feature design modification and/or material construction that renders them incompatible with real firearms.
- ▶ DO NOT attempt to install, modify, or otherwise adapt PTS products for use on real firearms, as damage to the weapon and/or serious personal injury may occur.

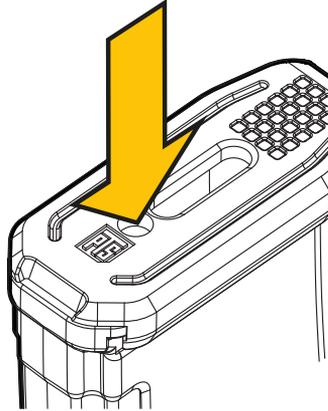
CHARGING GAS INTO THE MAGAZINE

The PTS Radian Model 1 GBBR uses green gas (sold separately) to propel the BB projectiles. The green gas is stored within each magazine which should be charged between each use.

1



2



3



To release the magazine, depress the magazine release button found on the right side of the receiver.

With the magazine in the inverted position, push the green gas canister nozzle into the magazine's charging valve at the base of the magazine. (Make sure both the canister and magazine are inverted and in line with the vertical position when charging).

Charge the magazine for approximately 30-40 seconds.



WARNING

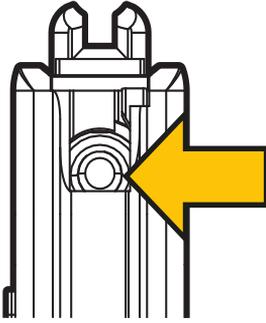


Avoid dropping the magazine. A sudden impact with a hard surface may damage the magazine.

Note: It is normal to have minor leaking from the charging valve during gas charging due to high pressure built up inside the magazine. It is recommended to keep the gas release valve slightly oiled (only use silicone oil based lubricant). Room temperature is the ideal temperature for shooting. You may experience a delayed action if the surrounding temperature drops below 20°C (68°F).

Note: Do not expose the magazine to direct sunlight or incinerate the magazine, as this may cause the magazine to burst. It is strongly recommended to empty the gas from the magazine after shooting. Be certain that the gas does not make contact with eyes or skin while being released, as any contact will cause cold burns.

DISCHARGING GAS

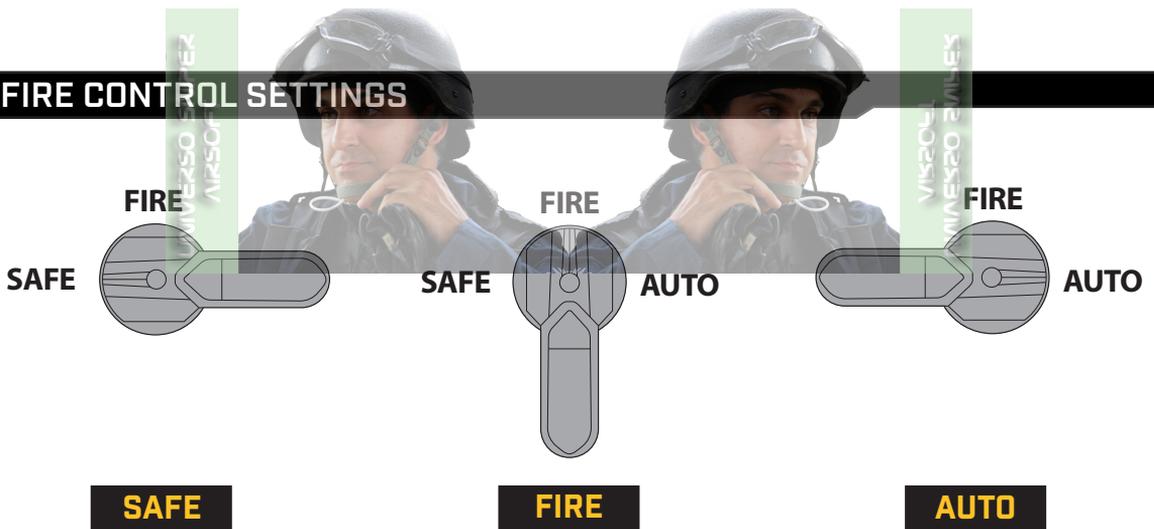


Hold the lower half of the magazine. Make sure the magazine release valve at the top of the magazine is faced away from your face and skin. Press the release valve at the rear top of the magazine. Residual gas will be discharged.

GREEN GAS SAFETY TIPS

- ▶ Check the gas canister for any cracks or leaks before using.
- ▶ Do not expose the gas canister to temperatures over 40°C (104°F).
- ▶ Do not place the gas canister directly over fire.
- ▶ Do not heat the gas canister.

FIRE CONTROL SETTINGS

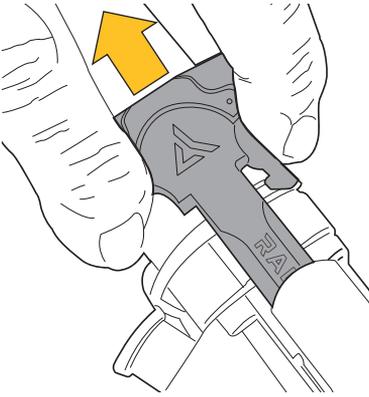


Gun cannot be fired.

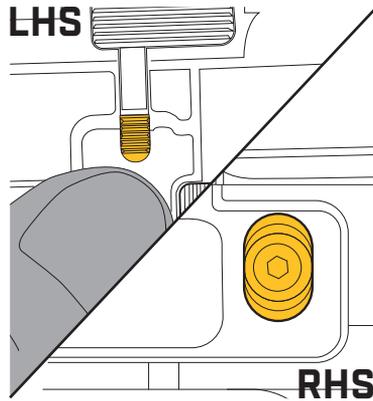
Gun will fire once per trigger pull.

Gun will fire automatically as the trigger is pulled.

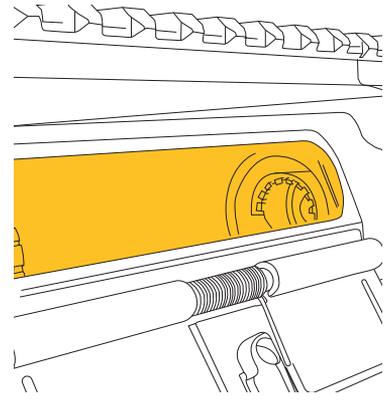
A-DAC™ Right & Left Side Bolt Hold Open Feature



1 To open the chamber of the Model 1 gun, pull back on the charging handle.

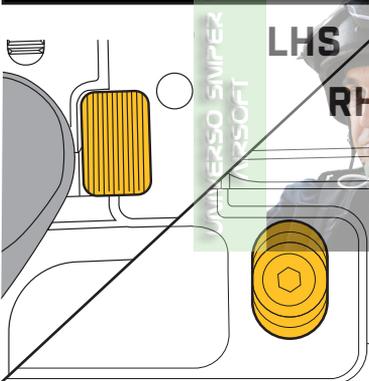


2 Whilst keeping the charging handle pulled back, depress the base of the bolt release button (left of receiver) or the mag release button (right).

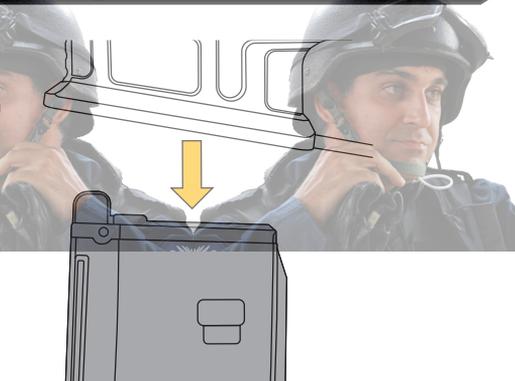


3 Bolt opened and locked. The hop-up unit is now accessible and can be adjusted for optimal performance.

A-DAC™ Right & Left Side Magazine Buttons

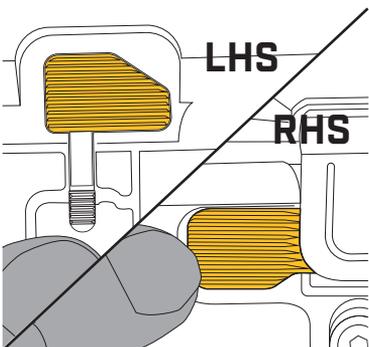


1 To release the magazine, depress the left / right side magazine release button.

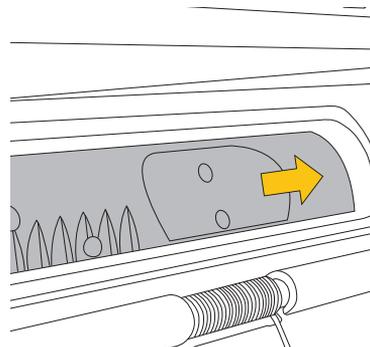


2 Once button is depressed, the magazine can then be removed from the magazine well of the receiver.

A-DAC™ Right & Left Side Bolt Release Buttons



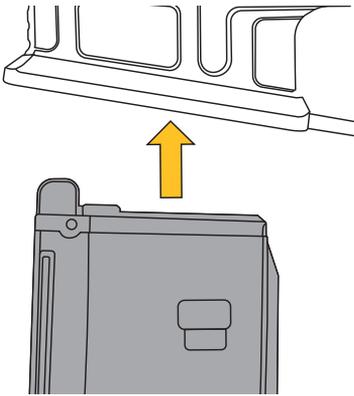
1



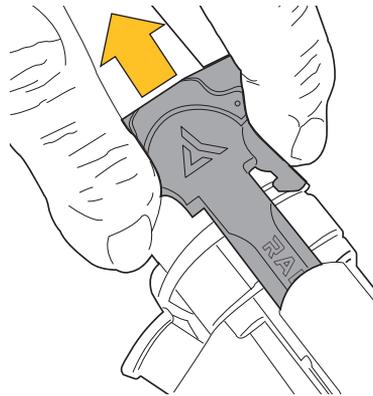
2

When the bolt is opened and locked back, press the left or right side bolt release button to close the bolt.

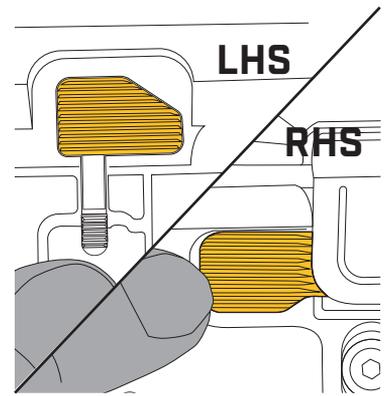
INSERTING THE MAGAZINE



1 Insert the magazine into the magazine well of the lower receiver. When the magazine is fully seated, the magazine catch will lock the magazine in place.

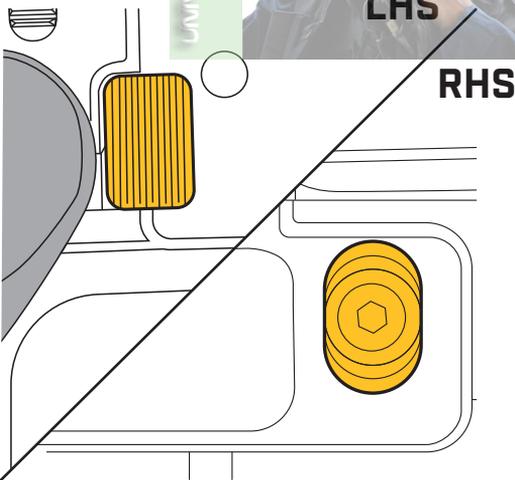


2-A If the bolt is locked, skip to step 2-B. If the bolt is closed, pull the charging handle back to load the bb into the nozzle chamber.

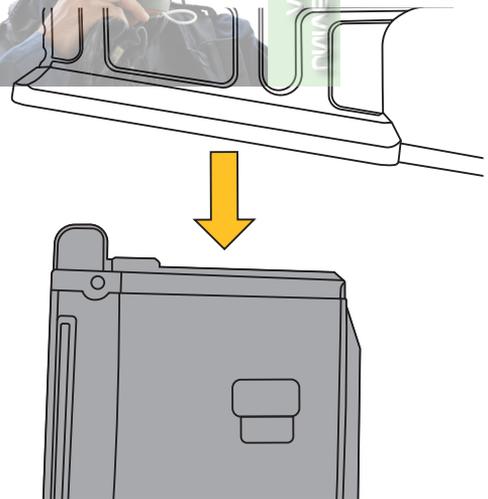


2-B When the bolt is locked open, press the bolt release button to release the bolt.

RELEASING THE MAGAZINE

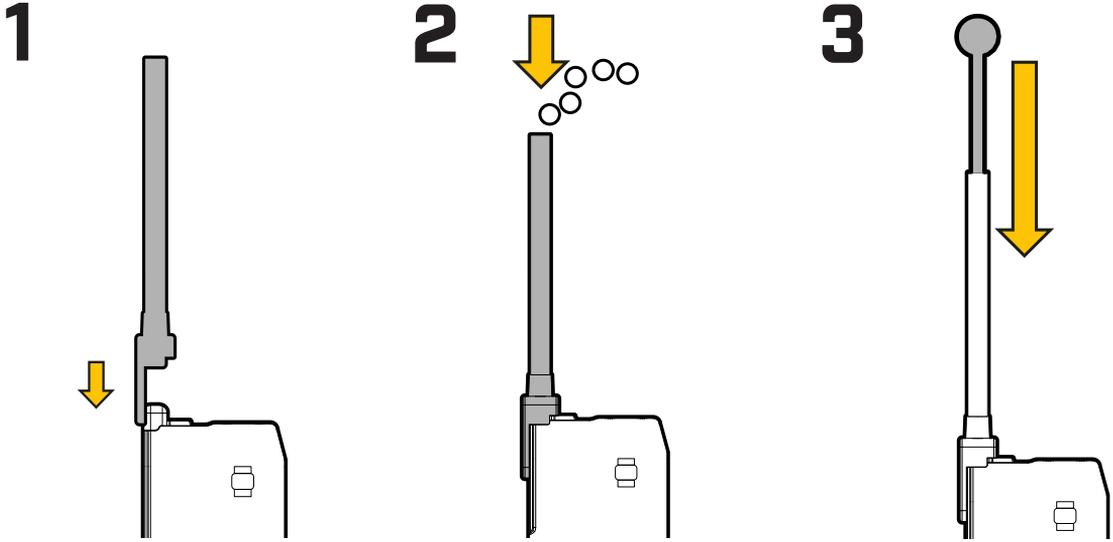


1 To release the magazine, depress the magazine release button.



2 Once button is depressed, the magazine can then be removed from the magazine well of the receiver.

LOADING THE MAGAZINE



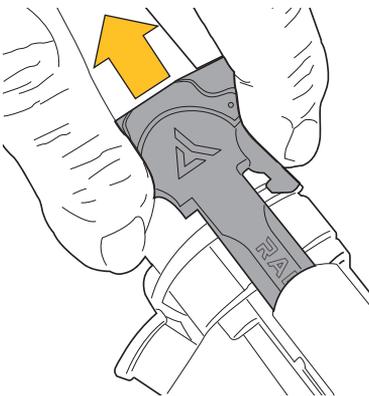
Insert the BBs into the BB loader that is provided with the gun inside the packaging.

Once loaded with BBs, attach the BB loader into the feedlip of the magazine.

To push the BBs down into the magazine, pump the top-end of the loader until the magazine is loaded.

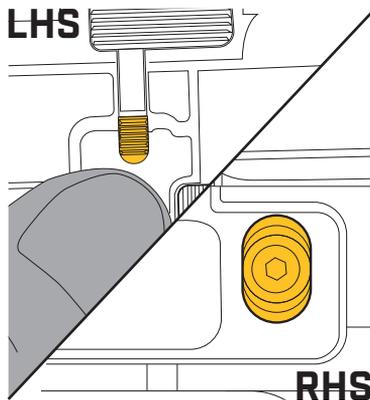
HOP-UP SYSTEM

ACCESSING THE HOP-UP SYSTEM



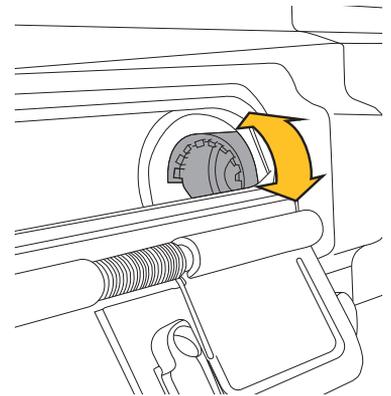
1

To open the chamber of the Model 1 gun, pull back on the charging handle.



2

Whilst keeping the charging handle pulled back, depress the base of the bolt release button (left of receiver) or the mag release button (right).



3

The hop-up unit is now accessible and can be adjusted for optimal performance.

ADJUSTING THE HOP-UP SYSTEM



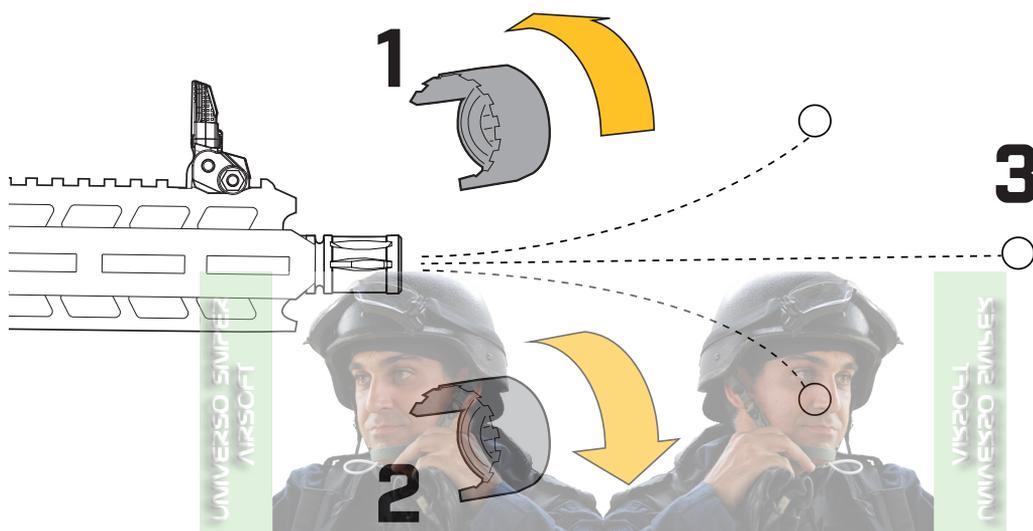
WARNING



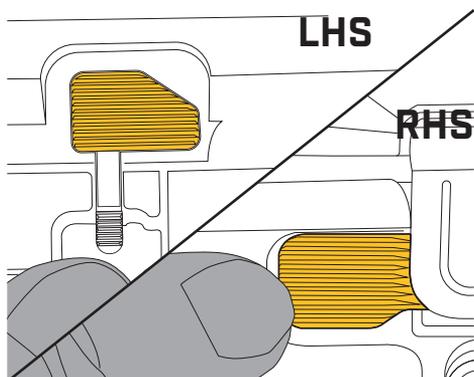
Do not release the bolt with the wrench still in the chamber. It can damage the hop-up device and chamber components.

Do not over torque the hop-up adjustment wrench. Doing so may damage the hop-up cylinder.

When test firing, please aim and fire the gun at a safe location.



- 1** Rotate the hop-up unit's dial counter-clockwise (if the gun is pointed downrange) to increase the topspin of the BB pellet, thus decreasing the elevation of the trajectory.
- 2** Rotate the hop-up unit's dial clockwise (if the gun is pointed downrange) to increase the backspin of the BB pellet, thus increasing the elevation of the trajectory.
- 3** The ideal setting would be achieved when the rounds fired maintain a relatively flat trajectory so adjust accordingly. Keep in mind, settings may vary in relation to the different weights of BB used.

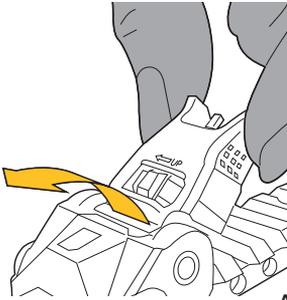


Depress the base of the bolt release button again to free the bolt back to its ready position.

4

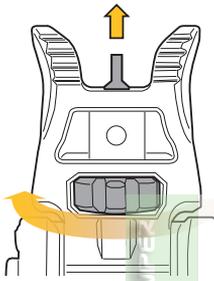
ENHANCED POLYMER FRONT BACK UP SIGHT

ENGAGING THE BACK UP SIGHT

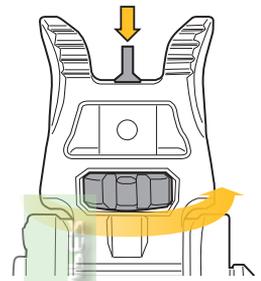


To engage the EPBUIS Front Sight upright, simply lift the sight by the textural plains on the sides to the ready position.

ADJUSTING SIGHT FOR ELEVATION

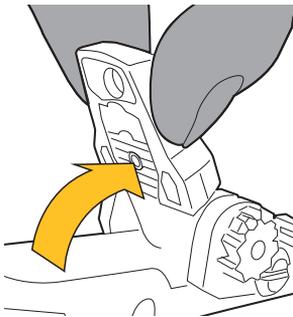


The front sight features the ability to adjust the sight post according to the elevation. Rotate the dial clockwise to raise and counter-clockwise to depress the post.



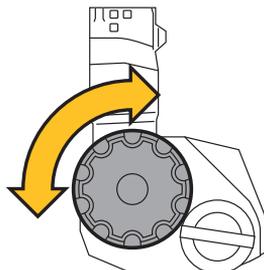
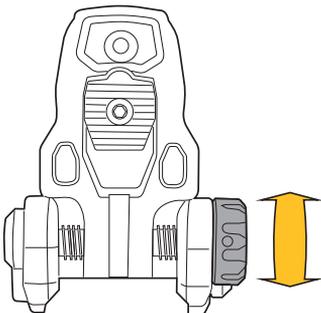
ENHANCED POLYMER REAR BACK UP SIGHT

ENGAGING THE BACK UP SIGHT



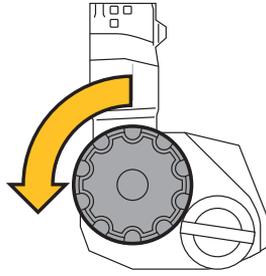
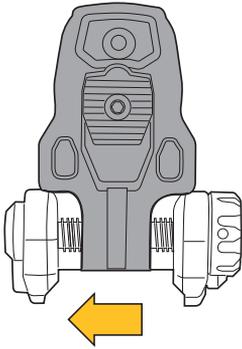
To engage the EPBUIS Rear Sight upright, simply lift the sight by the textural plains on the sides to the ready position.

ADJUSTING SIGHT TO WIND

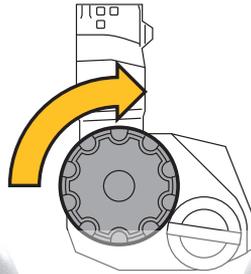
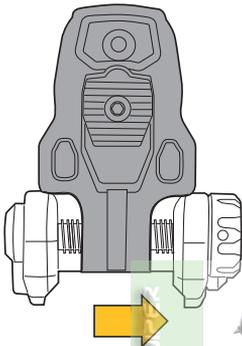


To adjust to the wind, rotate the adjustment dial that can be found on the right side of the sight accordingly.

ADJUSTING SIGHT TO WIND

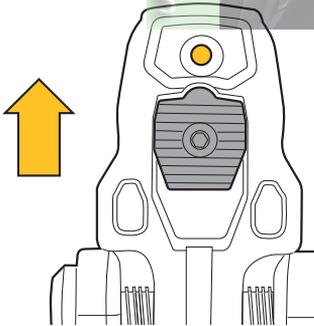


Rotate the adjustment dial counter-clockwise (CCW) to shift the sight to the left.

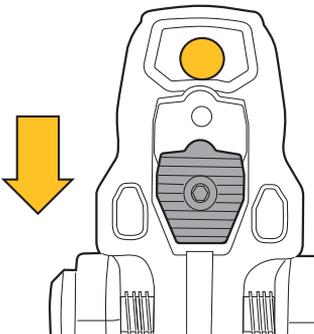


Rotate the adjustment dial clockwise (CW) to shift the sight to the right.

ADJUSTING SIGHT TO ELEVATION



The sight features a dual-plane flip aperture plate, to switch between small and large apertures. Simply raise the aperture plate to switch to a small aperture for greater accuracy at longer distances.



To switch to the larger aperture, engage the aperture plate downwards for quicker target acquisition in close quarter situations.



CLEANING THE BARREL

- ▶ Occasional barrel cleaning of the PTS Radian Model 1 GBBR is highly recommended to ensure optimal performance.
- ▶ Ensure the safety is engaged.
- ▶ Remove the magazine and clear the chamber of loaded BBs.
- ▶ Disable the hop-up by rotating the hop-up unit ring to the OFF position (see Hop-Up adjustment section).
- ▶ Separate the upper and lower receiver (see Disassembly section).
- ▶ Using a 1" x 0.5" cotton cloth strip, insert one end of the cloth into the hole in the cleaning rod and wind the cloth around the rod.
- ▶ Gently insert the cleaning rod through the front of the inner barrel to clean the barrel's bore. Push the rod all the way through and out the rear of the upper receiver. Repeat as necessary.

DISASSEMBLY

- ▶ Remove the magazine.
- ▶ Pull back and release the charging handle to reset the hammer. Note: The bolt must be forward.
- ▶ Set the safety selector to SAFE.

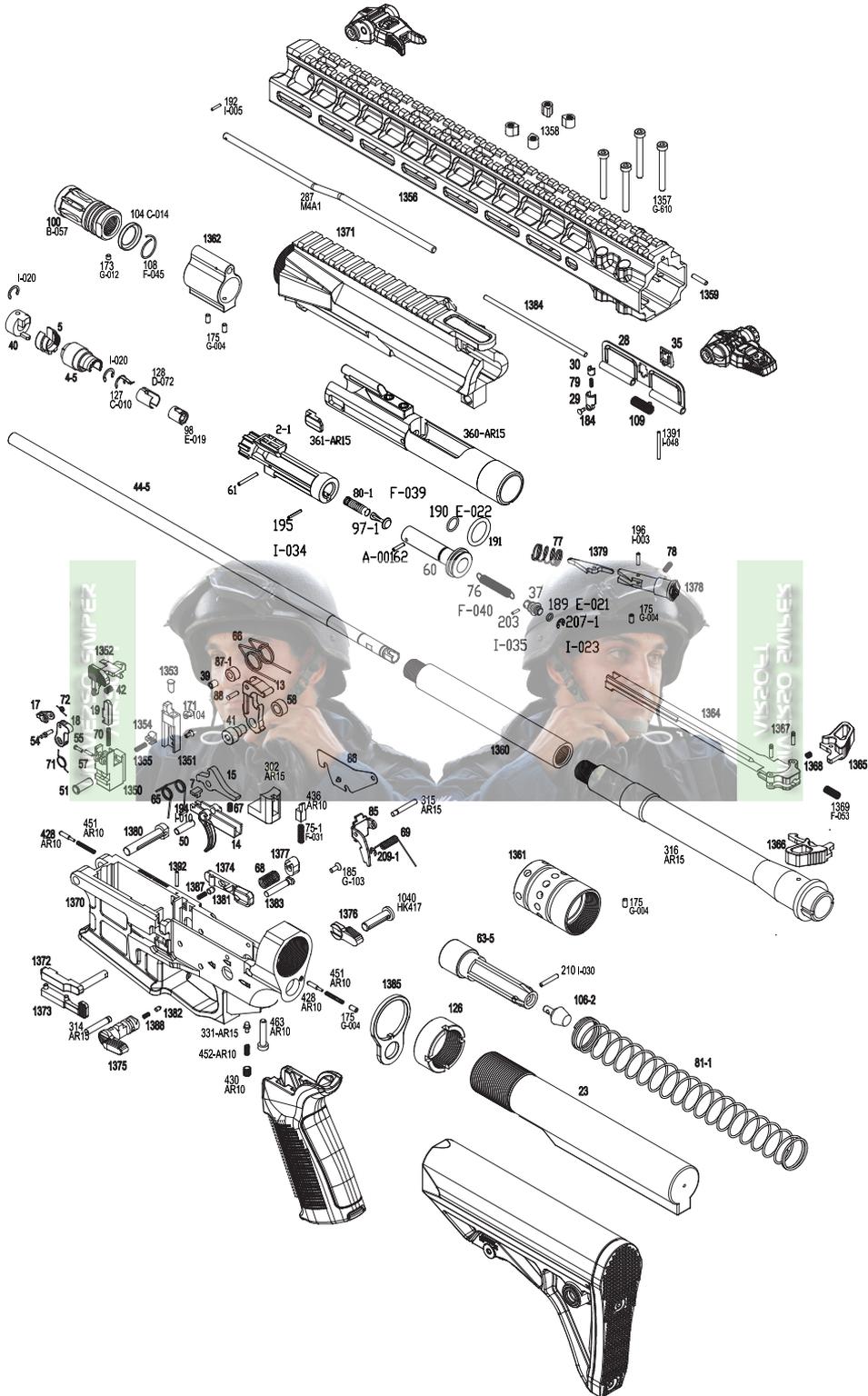
REMOVING THE BOLT CARRIER GROUP

- ▶ Push the Rear Takedown Pin as far as it will go from the left side of the receiver (the pin is captured and will not come out completely).
- ▶ Pivot the Upper Receiver open.
- ▶ Push in the Pivot Pin at the front of the Lower Receiver as far as it will go from the left side of the receiver.
- ▶ Separate the Upper Receiver from the Lower Receiver.
- ▶ Remove the Bolt Carrier and charging handle to the rear.
- ▶ Reverse disassembly actions to reassemble the PTS Radian Model 1.

CLEANING THE RECEIVER COMPONENTS

- ▶ Use a clean cotton cloth to wipe down the surface of the charging handle and bolt carrier assembly.
- ▶ Use a clean cotton cloth to clean inside the upper receiver and magazine well.
- ▶ Clean the remainder of the Airsoft gun with cotton-tipped swabs, or general purpose cleaning cloths.
- ▶ Place a small amount of silicone oil* on:
 - ▶ The length of the charging handle
 - ▶ The rails and cylinder of the bolt carrier
 - ▶ The hammer roller
- ▶ The magazine seals and o-rings. Unload BBs from the magazine. Make sure the magazine is free of gas before lubricating the magazine's charging valve and release valve.
- ▶ There are various different brands and types of silicone oil lubricant on the retail market for various different end uses, however we recommend using only silicone oil lubricant manufactured specifically for airsoft GBB purposes. Never use WD-40 or other types lubricants as that may damage the components.

EXPLOSIVE DIAGRAM



PARTS LIST

2-1	Piston Body	77	Asist Nove SP	451	Pivot Plunger SP
4-5	Adjust Ring	78	Asist Nove Plate SP	452	SL.Plunger SP
5	Adjust Ring Guide	79	Port Cover Lock SP	463	Hex Screw(M4x20)
7	Trigger Parts	80-1	Plug SP	1350	Mechanism Blcok AXTS
8	Recoil SP Guide Stopper	81-1	Recoil SP	1351	Mechanism Block B AXTS
13	Hammer	85	Full Auto Sear	1352	Blot Catch(AXTS)
14	Trigger	86	Pin Lock Plate	1353	Push Pin AXTS
15	Sear	87-1	Hammer Roller	1354	Link AXTS
17	Impact Hammer	88	Hammer Roller SetPin	1355	Link SP AXTS
18	Impact Hammer Frame	97-1	Plug-GK	1356	H.G Rail AXTS
19	Impact Hammer Lock	98	Rubber Chamber	1357	M4-35(HS)
23	Stock Buffer	100	Compenceiter	1358	Nut
28	Port Cover	104	Compenceiter Collar	1359	Joint Pin
29	Port Cover Inner	106-2	R.SP.G.Cushion	1360	Barrel A AXTS
30	Port Cover Stopper	108	Compenceiter	1361	Barrel Lock Ring AXTS
35	Port Cover Parts	109	Port Cover SP	1362	Gas Block AXTS
37	SP Hanger	126	Buffer Lock Ring	1364	C.Handle AXTS
39	Hammer Rollor Sleeve	127	EH M4	1365	Latch R AXTS
40	Adjust Ring Guide Stopper	128	EH HDP Color 05	1366	Latch L AXTS
41	Hammer Shaft	171	Cross screw M2.5x6	1367	C.Handle Pin AXTS
42	Bolt Catch SP	173	Hex Screw (M3x4)	1368	C.Handle SP2 AXTS
44-5	Inner Barrel	175	Hex Screw (M3x6)	1369	C.Handle SP1
50	Frame Pin Sleeve	184	Hex Screw (M2x4)	1370	L.Frame AXTS
51	Mechanism Block Sleeve	185	Hex Screw (M3x8)	1371	Upper Frame AXTS
54	Impact Hammer Pin	189	O Ring(\varnothing 4x1)	1372	Mg.Catch AXTS
55	Stopper Pin	190	O Ring (\varnothing 8x1)	1373	Mg.Catch Lever AXTS
57	Bolt Catch SetPin	191	O Ring (\varnothing 14.2x2.4)	1374	Bolt Release AXTS
58	Hammer Shaft Collar	192	Spring Pin(\varnothing 2x10)	1375	Select Lever L AXTS
60	Piston Inner	195	Spring Pin(\varnothing 1.5x12)	1376	Select Lever R AXTS
61	Piston Pin	196	Spring Pin(\varnothing 2x8)	1377	Mg.Catch Button AXTS
62	Cylinde SP Pin	203	Spring Pin (\varnothing 1.5x4)	1378	Asist Knove ATS
63-5	Recoil SP Guide	207-1	E Ring(\varnothing 3)	1379	Asist Knove Plate AXTS
65	Trigger SP	209-1	E Ring(\varnothing 2.5)	1380	Pivot Pin AXTS
66	Hammer SP	210	Spring Pin(\varnothing 2x18)	1381	Bolt Release Plunger
67	Sear SP	287	HG.Damy Tube	1382	S.L Plunger AXS
68	Mg.Catch SP	302	Lower Frame Inner	1383	Hammer Pin AXTS
69	Full Auto Sera SP	314	Frame Pin	1384	Port Cover SetPin AXTS
70	Impact Hammer Lock SP	315	FA.Sear SetPin	1385	Stock Plate AXTS
71	Impact Hammer Frame SP	316	Barrel Outer	1387	Bolt Release Plunger SP
72	Impact Hammer SP	331	SL.Plunger	1388	S.L Plunger SP AXTS
75-1	R.SP Guide Stopper SP	428	Pivot Plunger	1391	SP Pin
76	Cylinder SP	430	SP Catch Screw	1392	Hex Screw
		436	Recoil SP Guide Stopper		



PROFESSIONAL TRAINING & SIMULATION

As the worldwide exclusive licensee of a wide variety of airsoft products and brands, PTS prides itself in helping create the most authentic experience possible - both on and off the battlefield. Nothing else handles like PTS because nothing else is made like PTS, guaranteed. Each and every brand in the PTS family must pass rigorous testing requirements. And it's only the most realistic, precision engineered and innovatively designed that make the cut. In the end, you can be assured that the PTS family of brands offers a singular opportunity to own one of the finest, most trusted, field-tested brands ever assembled. Welcome to the PTS experience.



WARNING!

User restricted to 18 years of age or older.

You must read through this instruction Manual before operating this airsoft gun.

Always wear proper eye and face protection.

Obey all your local laws and regulations regarding ownership and usage of airsoft guns.

Misuse or careless use may result in serious injury or other consequences.

MADE IN TAIWAN

www.ptssyndicate.com

sales@ptssyndicate.com

Radian Weapons® logo and related brand names are trademarks of Radian Weapons in the United States and/or other countries and are used for airsoft replicas under exclusive worldwide license by PTS Syndicate, Ltd.

www.ptssyndicate.com