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KWA PERFORMANCE INDUSTRIES, INC.

18571 E. Gale Ave.

City of Industry, CA 91748 (626) 581-1777

store.kwausa.com

THANK YOU FOR PURCHASING A KWA PERFORMANCE INDUSTRIES, INC. PRODUCT. KWA Performance Industries, Inc. is committed to serving our customers with the finest quality products, the highest level of service, and the best customer satisfaction. Because of this, we offer a 90 day warranty on all KWA products we import and distribute.

#### Warranty Coverage

Except as specified below, this warranty covers all defects in material and workmanship in KWA products that occur during the above warranty period. The following are not covered by the warranty: (1) Any product which is not imported and distributed in the U.S.A. by KWA PERFORMANCE INDUSTRIES, INC. (2) Any products not purchased in the U.S.A. from a KWA AUTHORIZED RESELLER. If you are uncertain as to whether a reseller is a KWA AUTHORIZED RESELLER, please contact KWA PERFORMANCE INDUSTRIES, INC. as listed above or visit our website www.kwausa.com/ storefinder. (3) Damages, deterioration, or malfunction resulting from: a) An accident, act of nature, abuse, misuse, neglect, opening of mechbox, or failure to follow instructions supplied with the product. b) Repair or attempted repair by anyone not authorized by KWA PERFORMANCE INDUSTRIES, INC. c) Removal of the orange safety tip. (4) Use of the product outside the U.S.A. (5) Damaged batteries or improper use of bullets (BBs), or non approved propellants (ie. Propane, Red Gas, 134a...etc.) (6) Use in industrial, commercial, and/or professional applications.

## What KWA Will Pay For

If your KWA product is found to be defective by KWA Performance Industries, Inc. during the applicable warranty period from the date of original purchase, KWA Performance Industries, Inc. will repair, or at its option, replace with new, used, or equivalent model, the defective product without charge for parts or labor.

#### **How To Obtain Warranty Service**

If your product needs service, it may be taken or shipped to KWA Performance Industries, Inc. The following procedures apply whenever your unit must be transported for warranty service:

- You must go to the RMA Request Quick Link at www.kwausa.com to obtain an RMA number. THE RMA NUMBER MUST BE CLEARLY MARKED ON THE OUTSIDE OF THE PACKAGE. PACKAGES WITHOUT AN RMA NUMBER CLEARLY MARKED WILL BE REFUSED AND RETURNED TO THE SENDER.
- You are responsible for transporting your unit or arranging for its transportation.
- If shipment of your unit is required; you must pay the initial shipping fee, but we will pay the return shipping charge if the repairs are covered by the warranty.
- WHEN RETURNING YOUR UNIT FOR WARRANTY SERVICE, A COPY OF THE ORIGINAL SALES RECEIPT MUST BE ATTACHED.
- You must include the following: RMA number, your name, address, daytime telephone number, model and serial number (if applicable) of the product and a description of the problem.

#### This Warranty is Only Valid in the United States

If your product does not require service, but you have questions regarding its operation, please contact our Help Desk at www.kwausa.com.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

OUR LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL COMMERCIAL OR PROPERTY DAMAGES OF ANY KIND. WE ARE NOT RESPONSIBLE FOR PRODUCTS LOST, STOLEN AND/OR DAMAGED DURING SHIPPING.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, but you may also have other rights which vary from state to state. This warranty may not be altered other than in writing signed by an officer of KWA Performance Industries, Inc.



#### USE OF THIS MANUAL

Before operating the Airsoft gun, read this manual in its entirety. Important safety topics and tips are discussed throughout all of the chapters. It's important that the operator know the principles of gun handling, safety, and operation prior to firing the Airsoft gun.

#### SAFETY GUIDELINES

#### **Safety Distance**

The effective shooting range is approximately 175 feet. BBs fired from this Airsoft gun may travel farther than intended. Make certain that you have an adequate backstop.

#### **Eye Protection**

Eye protection should be worn at all times when both shooting and maintaining your Airsoft gun. Protect your eyes from BBs under pressure while performing maintenance on your Airsoft gun.

### **Assume Every Gun is Always Loaded**

Until you are certain the chamber is empty, treat every gun as if it were loaded. Do not assume the chamber is empty based on your memory or someone else's word. Always remove the magazine and visually check to confirm the chamber is empty.

#### **Beware of Barrel Obstructions**

Ensure the Airsoft gun barrel is free of obstructions before you fire the gun. Even the smallest obstruction such as dirt, dust, or a stuck cleaning patch can cause a jam, misfire, or malfunction.

#### **Muzzle Control**

Always keep the muzzle of the gun pointed in a safe direction. Never point the muzzle at a person or object that you do not intend to shoot.

## **Keep Your Safety On**

Keep the gun's safety on until your sights are aligned on your target and you are ready to fire.

## **Keep Your Finger Off The Trigger**

Keep your finger off the trigger and out of the trigger guard until your sights are aligned on your target and you are ready to fire.

## **Identify Your Target and Backstop**

Before you pull the trigger, make certain of your target and what is beyond it. The Airsoft gun should never be fired at surfaces such as rocks, glass, water, or other hard surfaces where BBs are likely to ricochet in unpredictable directions.



## WARNING:

- Airsoft BBs can be a choking hazard. Keep them away from children.
- Failure to follow safety guidelines may result in serious injury.

## SAFETY GUIDELINES (CONTINUED)

#### **Failure To Fire**

If the Airsoft gun fails to fire, misfires, or malfunctions, do not look into the gun barrel. BBs can become lodged into the chamber, and serious eye injury may occur.

#### **Maintain Your Gun Properly**

Performing proper maintenance, as outlined in this manual, ensures that your Airsoft gun will be safe to shoot and will perform to its designed specifications for many years. Alterations, modifications or adjustments may damage your Airsoft gun, make it unsafe to shoot, and will void all warranty claims.

#### **Store Your Gun Safely**

Always store the Airsoft gun in a safe place, and out of reach of children. Always transport the Airsoft gun in a carrying case. Never display the Airsoft gun in a public place. Keep the safety engaged, and remove the magazine before storing the Airsoft gun.

**NOTE:** IT IS YOUR RESPONSIBILITY TO TAKE EVERY REASONABLE PRECAUTION TO ENSURE THE SAFE STORAGE AND TRANSPORTATION OF YOUR AIRSOFT GUN.

### **Orange Tip**

The orange tip on Airsoft guns help Law Enforcement distinguish the replica guns from their real firearm counterparts. Altering the coloration or markings required by state or Federal law so as to make the product look more like a firearm is dangerous and may be a crime. Operator assumes all risks and responsibility when doing so.

## Hazards of Being Mistaken for a Real Firearm

Airsoft guns have been mistaken by Police and Law Enforcement as real firearms. A confrontation with law enforcement while carrying an Airsoft gun can result in serious injury or even death. It is strongly advised to operate the Airsoft gun at a safe and legal location. In the event that you are approached by Law Enforcement personnel, you must comply with their instructions immediately to avoid an incident.

## Alcohol, Medications, and Drugs

Do not handle or operate your Airsoft gun while under the influence of alcohol, medication or drugs.

## **Your Responsibility**

Your Airsoft gun is well-engineered and manufactured to the highest standards. It was carefully inspected before it was packaged and shipped from our factory. Its safe use depends on you alone. You are the ultimate safety device. Like many other devices, your Airsoft gun is safe unless handled in an irresponsible or uneducated manner.



## **WARNING:**

- Adult supervision is required for any person under the age of 18.

## SPECIFICATIONS: VM4 RŌNIN 6 PDW

- Overall Length [Retracted] = 825.5 mm (32.5")
- Overall Length [Extended] = 908.1 mm (35.8")
- Outer Barrel Length = 374.7 mm (14.8")
- Inner Barrel Length = 396.9 mm (15.6")
- Inner Barrel Diameter = 6.05 mm
- Weight (without magazine) = 3.22 kg (7.1 lbs)
- Barrel thread = -14 mm
- Caliber = 6 mm
- Magazine Capacity = 30/120 rounds
- Rate of Fire = 20 RPS
- Velocity = Adjustable FPS\*
- Energy Output with 0.20g BB = 1.20 Joules
- Power Source: 9.6v NiMh, 7.4v or 11.1v 15c Li-Po

\*Individual test results may vary depending on brand of BBs, ambient temperature, and chronograph used.

## **Special Features:**

- Polymer Enhanced PTS® Grip
- Switch Life Extender
- Rotary Hop Up
- Magazine Cutoff Compatibility
- Adjustable FPS using Allen Wrench
- Reinforced Radiused Mechbox
- KWA 2G High Performance Bucking
- Rear Wired Battery Compartment
- Aluminum Alloy One-Piece Upper Receiver
- Realistic Construction and field Stripping
- Custom Design Rail





## SPECIFICATIONS: VM4 RŌNIN 10 SBR

- Overall Length [Retracted] = 825.5 mm (32.5")
- Overall Length [Extended] = 908.1 mm (35.8")
- Outer Barrel Length = 374.7 mm (14.8")
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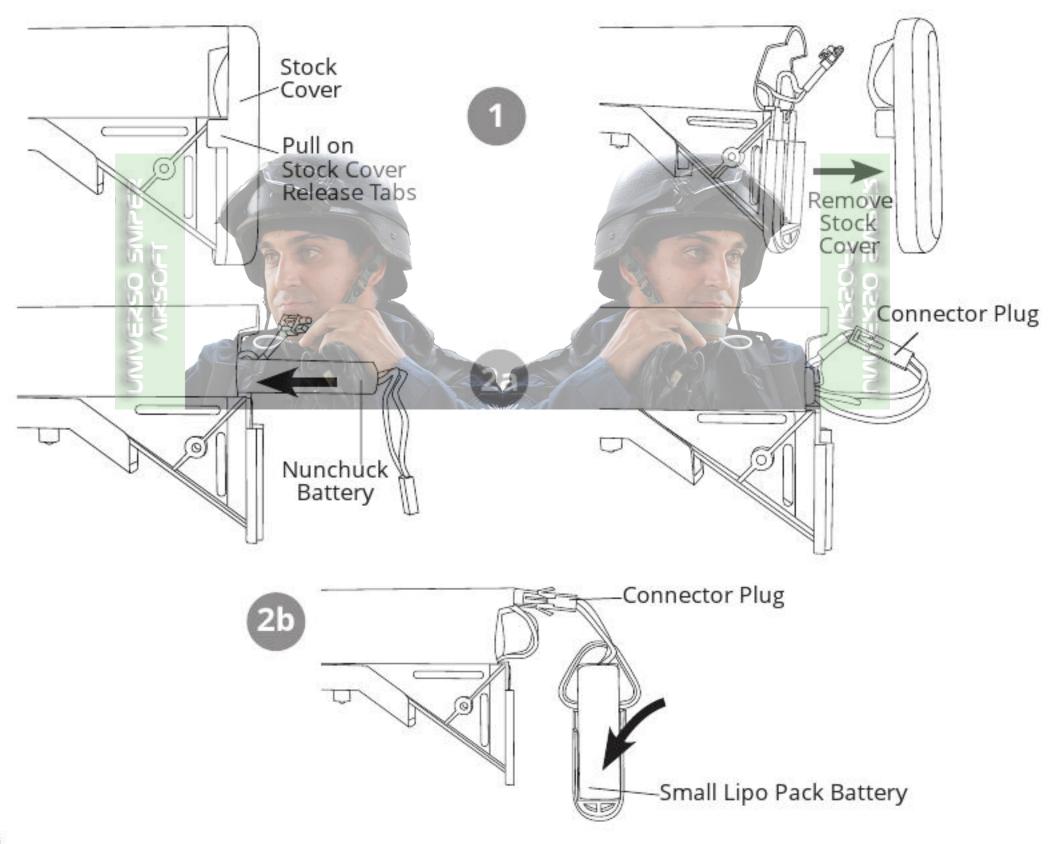


#### BATTERY INSTALLATION



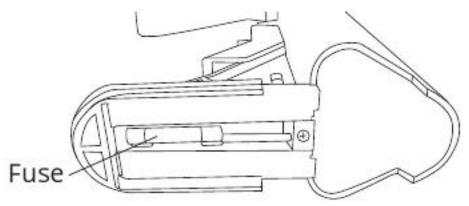
WARNING: Stock must be fully collapsed before opening the stock cover. Do not remove the stock completely from the gun, doing so will disconnect the terminals inside

- Set fire selector to safe mode. Place the safety cap on the barrel end. Gently pull the butt plate release tabs to remove the cover.
- 2a. Two types of batteries can be used, Nunchuck batteries and small Li-Po pack batteries. When using a Nunchuck battery, first place the battery into the stock, then push the connector plugs together firmly until they click into place.
- 2b. When using a small Li-Po pack battery, place the battery into the butt plate. Push the connector plugs together firmly until they click into place. \*Make sure the small Li-Po pack battery size is no larger than 4"H x 1.25"W x 0.62"D
- Replace the butt plate by pressing it onto the stock until the retention tabs on the side snap into place.

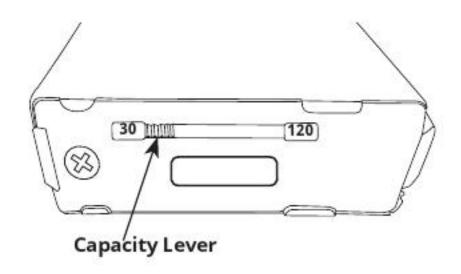


#### **FUSE**

To replace the fuse, remove the butt stock cover and replace fuse with up to 20A glass fuse.



The magazine included with each VM4 has an adjustable capacity of 30 or 120 rounds. To switch the magazine capacity, first make sure the magazine is completely empty. Then, switch the lever on the bottom of the K120c magazine to the desired capacity as shown.

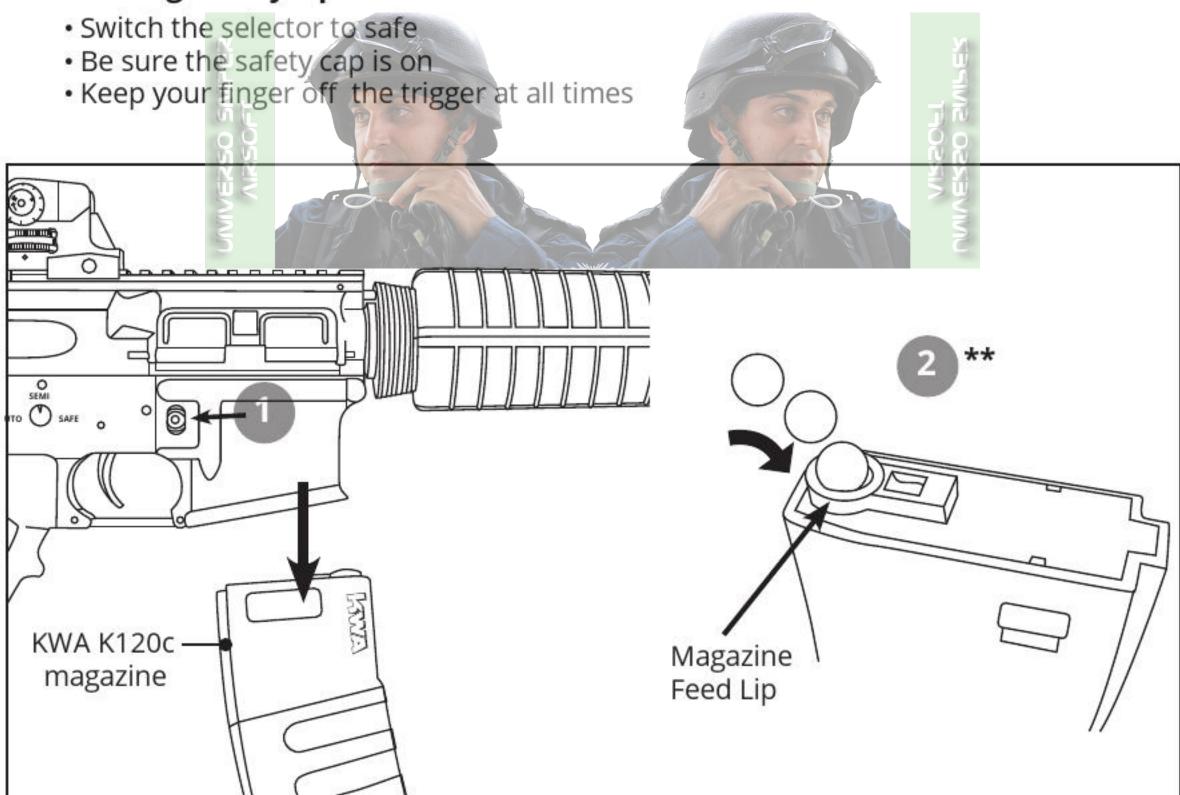


#### LOADING BBS

- Release the magazine from the Airsoft gun by pressing the magazine release button.
- 2. Feed the BBs into the magazine through the magazine feed lip as shown.

**\*\*NOTE:** The use of a BB loader, such as the KWA High Performance BB Loader, can help make the loading process easier and faster. (See page 11)

#### Loading safety tips:





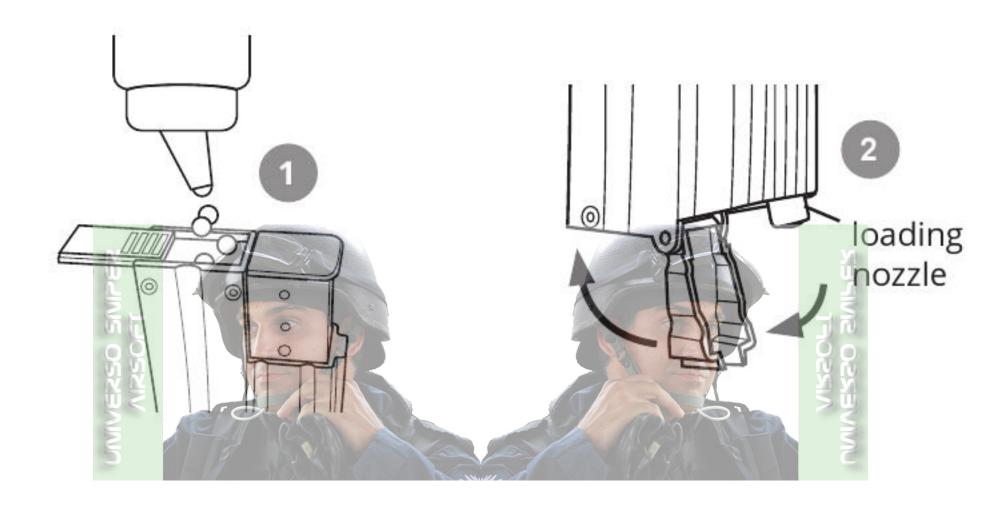
## **WARNING:**

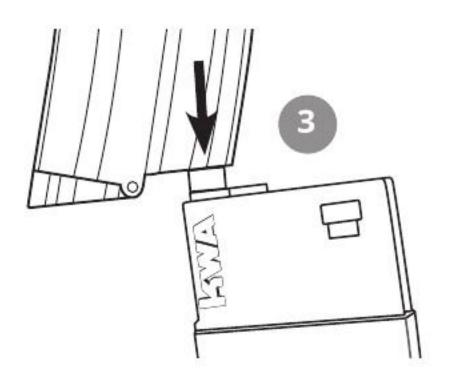
 Always use high quality 6mm BBs, weighing 0.2g or heavier. For best results use 0.25g KWA Perfect BBs. To prevent damage to your gun, avoid using recycled or low grade BBs.

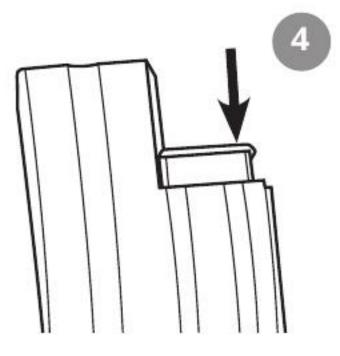


## USING KWA HIGH PERFORMANCE BB LOADER (Purchase Separately)

- Slide open the trap door on top of the BB loader. Fill the BB loader with BBs.
   \*Do Not Overfi II.
- 2. Flip down the nozzle cover to reveal the loading nozzle.
- 3. Fit BB loader into the magazine feed lip.
- 4. Press on BB loader plunger to load BBs into magazine.





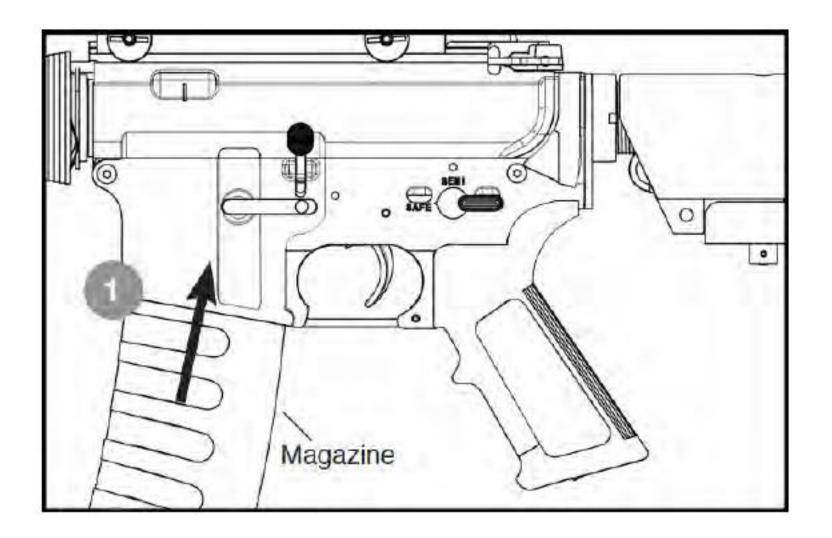




- KWA K120c magazines hold 30 or 120 rounds of BBs. DO NOT load more than 120 rounds into the magazine. Overloading will cause jamming issues.

#### LOADING MAGAZINE

- 1. Place the loaded magazine into the magazine well.
- 2. Lightly pull on the magazine to ensure it is locked in properly.



#### FIRE SELECTOR SWITCH

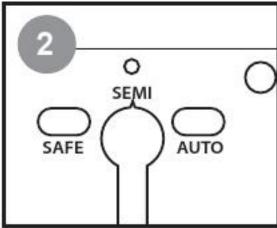
#### 1. Safe

Safe mode is the setting to the left as indicated in the diagram. In this mode the gun will not fre. For safety reasons, you should keep the switch in Safe mode at all times when you are not ready to fire.



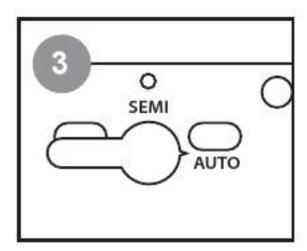
#### 2. Semi-Auto

Semi-Auto mode is the middle setting. In this mode the gun will fire one shot for each time you squeeze the trigger.



#### 3. Full-Auto

Full-Auto mode is the setting to the right. In this mode the gun will fire continuously as long as the trigger is engaged.





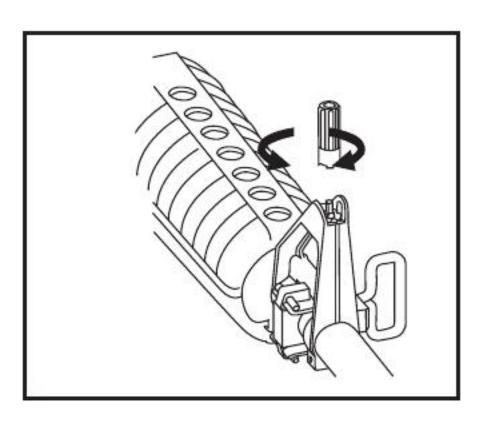
#### WARNING:

- Do not squeeze the trigger when switching the fire selector.

#### FRONT AND REAR SIGHT ADJUSTMENT

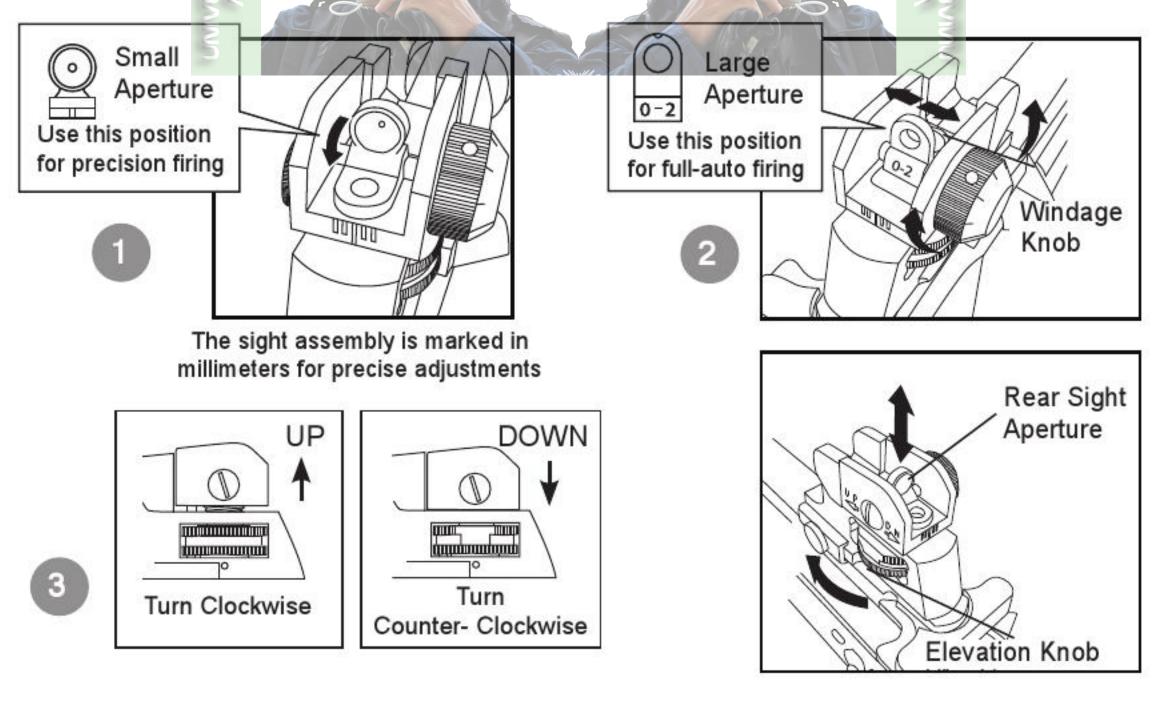
#### FRONT SIGHT ADJUSTMENT

- 1. The front sight can be moved up and down to zero the sights.
- 2. Turn counter clockwise to raise the post.
- Turn clockwise to lower the post.



#### REAR SIGHT ADJUSTMENT

- 1. Flip the rear sight between general and precision aiming.
- To adjust the horizontal point of impact, rotate the windage knob located on the rear of the sight.
- 3. To adjust the vertical point of impact, rotate the sight elevation know located on the left and right side of the sight.





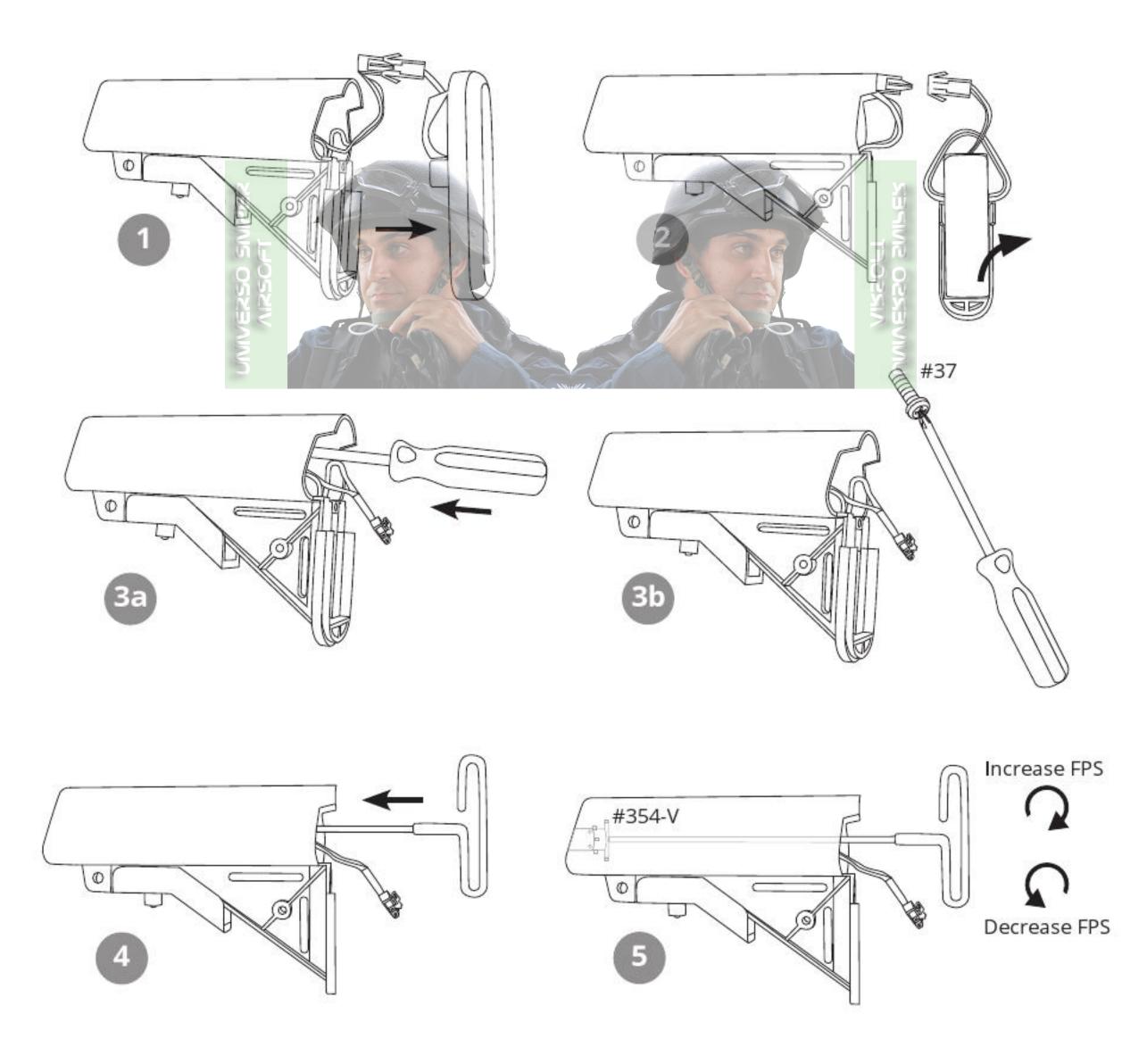
## **WARNING:**

-If turned too far, the front sight will come off.

## **NEW- FPS ADJUSTMENT**

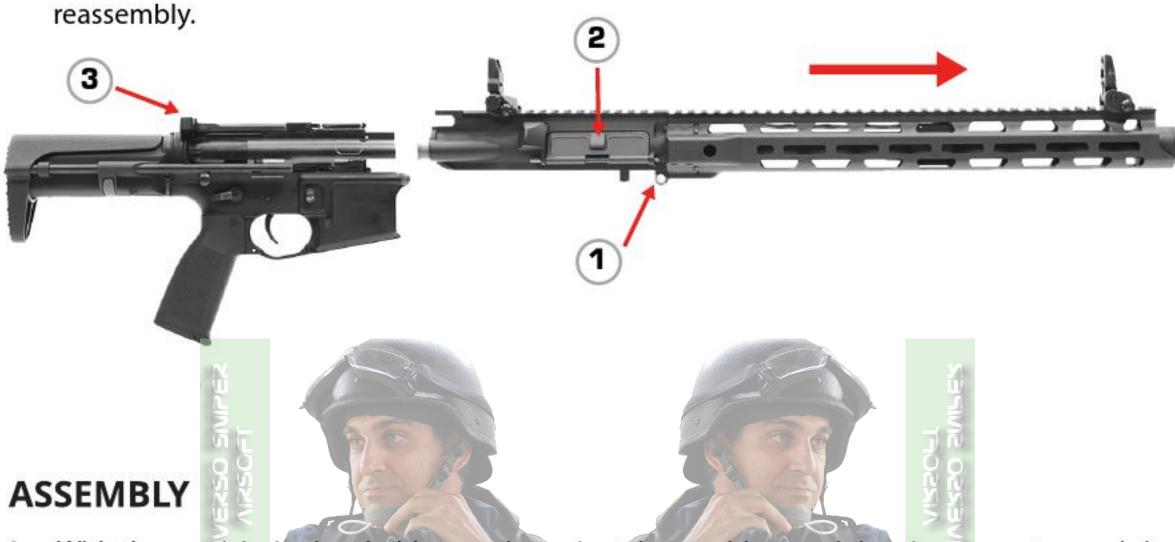
Each VM4 has an adjustable FPS feature that can range from 390 FPS to 440 FPS. Each full rotation of the Hex Key tool is approximately 2.5 FPS +/-.

- 1. Remove stock cover.
- Disconnect and remove battery.
- 3. Use Phillips screwdriver to remove Stock Tube Retainer Screw (part 37).
- Insert provided Hex Key tool through stock to reach FPS Adjustment Set Screw (part 44).
- Rotate Hex Key counterclock wise to release tension and decrease FPS. Turn clockwise to increase tension and increase FPS.
- 6. Remove tool. Reassemble stock tube screw, battery and stock cover.



#### DISASSEMBLY

- 1. Push front take down pin (part #378) in from left side through the receiver until it stops.
- 2. Close ejector port cover (part #68) and ensure it remains in the closed position.
- Retract the charging handle latch (part#269) and hold while simultaneously sliding the
  upper receiver forward and off of the lower receiver. CAUTION: Always ensure the mock bolt
  plate (part #M352) lays securely against the mechbox during entire disassembly and



- With the mock bolt plate held securely against the mechbox and the ejector port cover is in the closed position, pull the bolt catch release away from the lower receiver and slide the upper receiver on.
- Ensure there is no gap between the upper and lower receiver, then reinsert the front take down pin to



## $\Lambda$

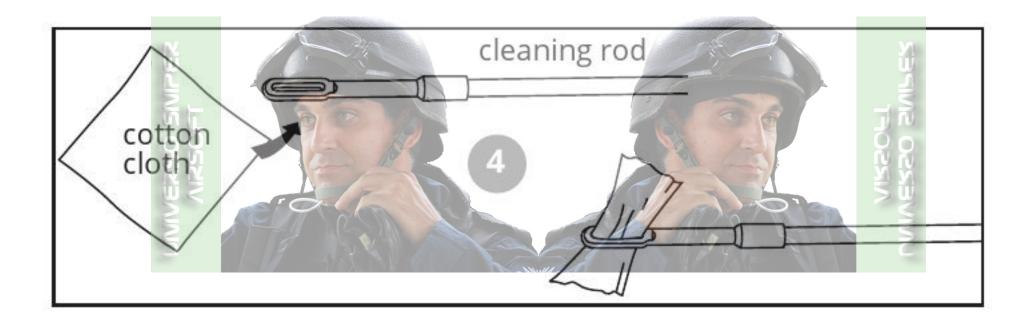
#### **WARNING:**

- Always place the safety cap on the barrel tip when servicing your gun. Be sure the fire selector is set to "SAFE".
- If the receiver does not open, repeat step 2 as necessary.

#### **CLEANING**

The brass inner barrel should be cleaned after each shooting session. Regular cleaning prevents the eff ects of BB residue buildup that can hinder performance.

- Ensure that the safety is engaged.
- 2. Remove the magazine and clear the chamber of loaded BBs.
- 3. Disassemble the receiver (see Disassembly section pg. 14).
- 4. Steps to use cleaning rod:
  - a. Cut a piece of clean cotton cloth to 1 inch by 0.5 inch size. Insert one end of the cloth into the hole in the cleaning rod (adjust the length of cloth for smooth entry into the barrel).
  - b. Wind the cloth around the cleaning rod.
  - c. Insert the cleaning rod into the inner barrel, and push the rod through.
  - Remove the cleaning rod and check the cotton cloth for dirt. Repeat a-c when necessary.





## **WARNING:**

- Unload and clear the Aisoft gun before cleaning.
- DO NOT use spray silicone oil as a cleaning solution for the inner barrel.



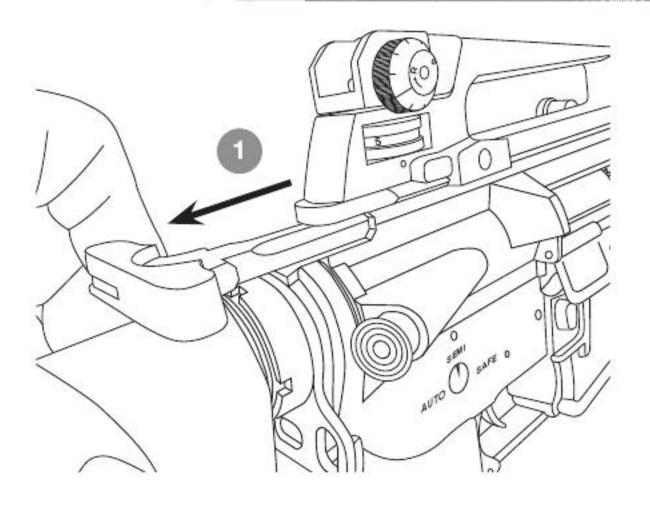
#### HOP UP SYSTEM

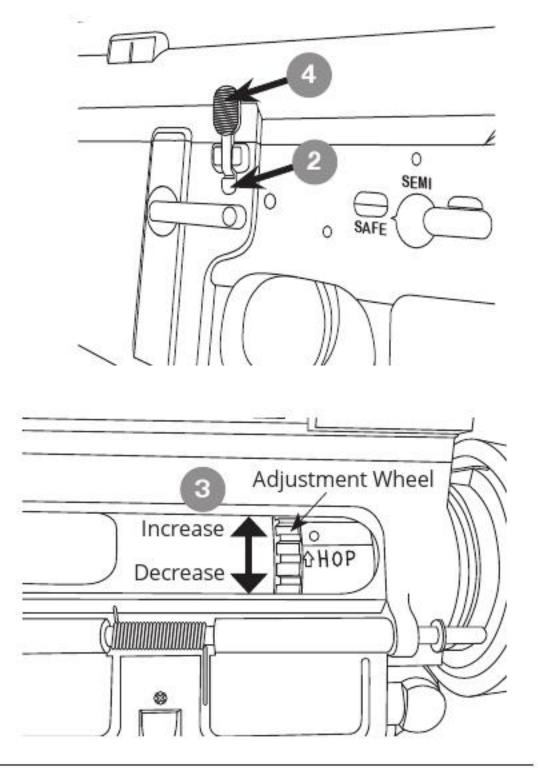
The hop up device is one of KWA's standard features, giving Airsoft BBs greater stability, farther travel, and increased accuracy. Airsoft BBs are lightweight and can be affected by wind when fired. With the hop up system, the trajectory of the Airsoft BBs can be adjusted according to the shooting environment.

#### **HOP UP ADJUSTMENT**

- 1. Pull back on the charging handle
- Press the lower portion of the bolt catch lever on the left side of the receiver. The bolt plate will lock back, opening the ejection port and exposing the hop up adjustment dial.
- Turn the hop up adjustment wheel up to increase hop up. Turn the hop up adjustment wheel down to decrease hop up.
- Excessively turning the hop up adjustment dial up can cause Airsoft BBs to jam. Continued firing with jammed barrel will cause damage to the gearbox or the hop up.
- When jamming occurs, immediately stop shooting and turn the hop up adjustment wheel down to withdraw the hop up nub. Remove jammed Airsoft BBs.
- Once the proper setting for the hop up has been reached, press the upper portion of the bolt catch lever to release the bolt plate.

Before removing jammed airsoft BBs, be sure to return the hop up adjustment wheel to normal position. After removing the BBs, test fire 2-3 rounds to check for clearance. Resume adjustment. KWA Airsoft guns are made with precision barrels, so be sure to use only new, high quality 6mm BBs. The use of recycled or low quality Airsoft BBs are the primary cause of jamming. In most cases, it can severely damage the gearbox, inner barrel, and hop up.





#### HOP UP ADJUSTMENT POINT

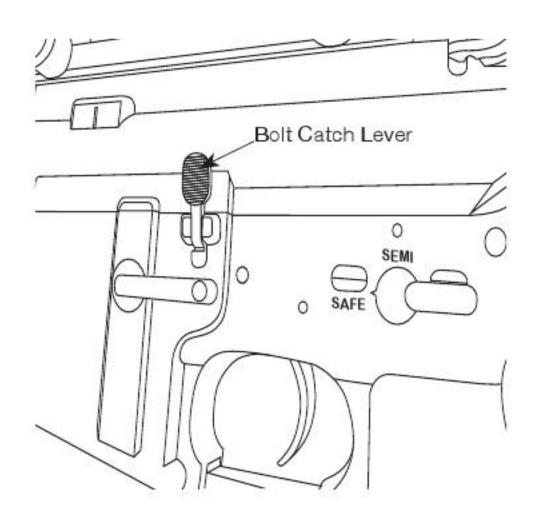
BB TRAJECTORY PATTERN		ADJUS <sup>-</sup>	rments
	BB DROPS FREELY	OHOP 1	TURN KNOB UPWARD
<b>1</b>	BB TRAVELS AT SHORT TRAJECTORY PATH	Phop ↑	TURN KNOB SLIGHTLY UPWARD
~	BB TRAVELS DISTANCE AT FLAT TRAJECTORY PATH	о ОНОР	NO ADJUSTMENTS NECESSARY
	BB TRAVELS FLAT IN SHORT DISTANCE, THEN GOES UP IN CURVE AND DROPS FREELY	→ HOP ↓	TURN KNOB SLIGHTLY DOWNWARD
~	BB TRAVELS AT UNSTABLE SPEED AND IRREGULAR PATH	онор	TURN KNOB DOWNWARD

#### **AUTO CUT-OFF**

The KWA VM4 AEG 2.5 has a mechanical/electrical auto cut-off feature designed to replicate the actions of a real AR-15, which ceases to fire after the magazine is empty. To reengage the AEG 2.5, follow the steps below:

- 1. Place the loaded magazine into the magazine well until it clicks into place.
- 2. Lightly pull on the magazine to ensure it is locked in properly.
- 3. Press the bolt catch lever, engaging the gun's firing action

Although the KWA AEG 2.5 is compatible with many standard AEG magazines, the auto cutoff feature will be disabled with most after market magazines and the rifle will continue to fire regardless of BBs in the magazine.





BASIC TROUBLESHOOTING GUIDE FOR RIFLES				
SYMPTOMS	POSSIBLE CAUSE	SOLUTIONS		
Airsoft gun is not firing	Selector set to Safe Mode	Select Semi-Auto or Full-auto Mode		
	Motor damaged or bad connection	Return gun for professional care		
	Pinched wiring	Return gun for professional care		
	Bad Fuse	Replace fuse		
Motor or battery is hot after use	Pinched wiring	Return gun for professional care		
	Motor damaged or bad connection	Return gun for professional care		
Semi-Auto feature not functioning	Incorrect timing	Dry fire on Full-Auto		
High pitch or grinding noise	Gear may be damaged/ Motor level not adjusted	Return gun for professional care		
BB double feeding/rolling out of barrel	Hop up unit is contaminated	Clean hop up unit with cleaning rod		
VIPEX VIPEX	Hop up unit may be damaged	Return gun for professional care		
Inner barrel is jammed	Use of low quality/recycled BBs	Use KWA Perfect BBs or other high quality BBs		
	Inner barrel is contaminated	Clean inner barrel with cleaning rod		
	Inner barrel is damaged	Return gun for professional care		

Note: While troubleshooting, only take steps to repair your rifle that fall within warranty specifications. For any questions regarding warranty or troubleshooting, please contact KWA Customer Service at www.kwausa.com

#### **OPERATING UNDER UNUSUAL CONDITIONS**

Unusual conditions are defined as any condition requiring special maintenance. Perform maintenance outlined for the climate similar to your operational area.

#### Extreme Cold:

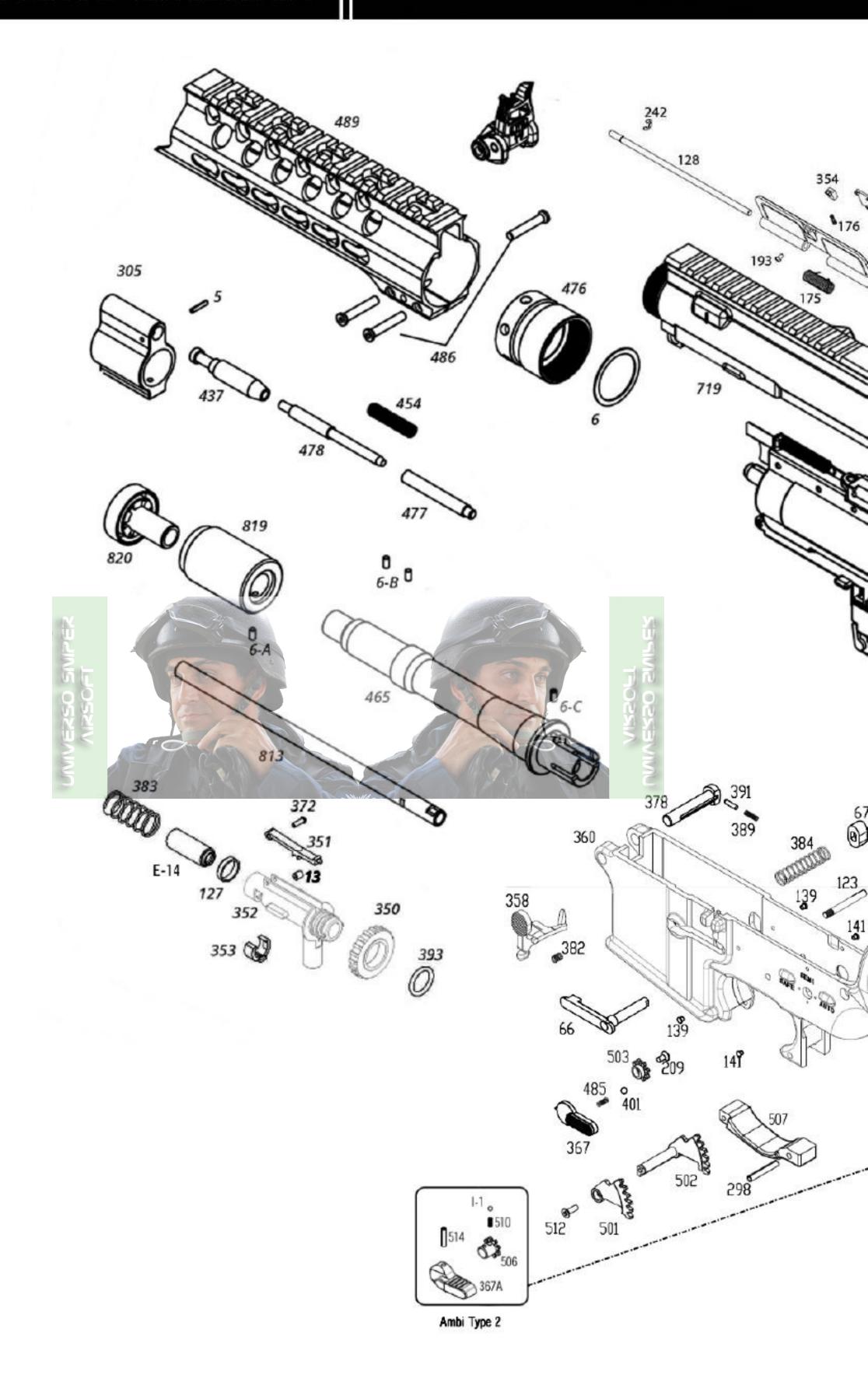
Operating an Airsoft gun in extremely cold temperatures is not recommended. Cold temperatures will cause the hop-up bucking to harden, reducing its effectiveness. Gas will not expand properly in cold temperatures, so both the cycling rate and power will be dramatically reduced.

#### Extreme Heat:

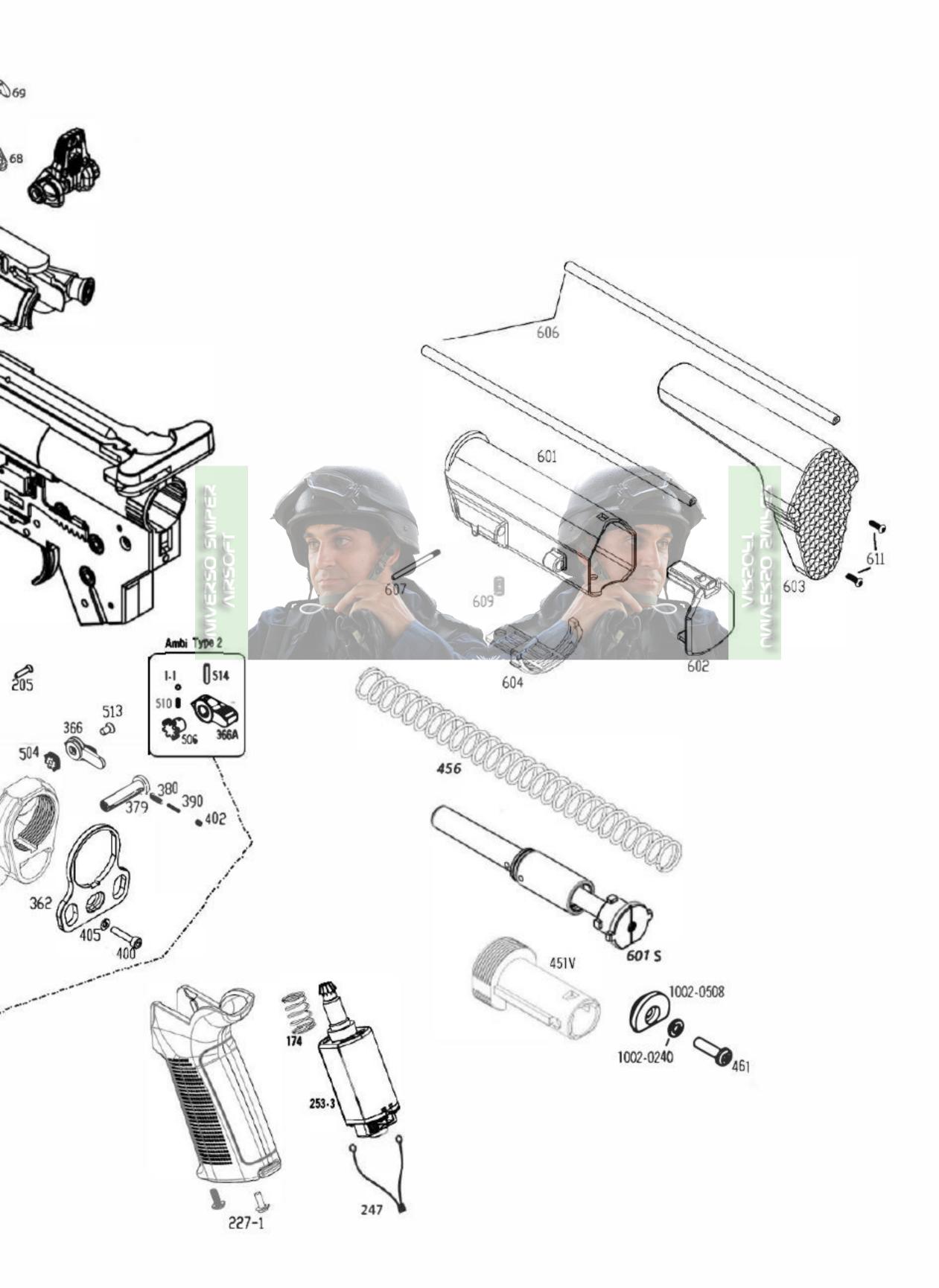
Please be mindful of battery, wiring, and motor temperatures in hot weather. Excessive heat can damage electrical components.

#### **Dust or Sand:**

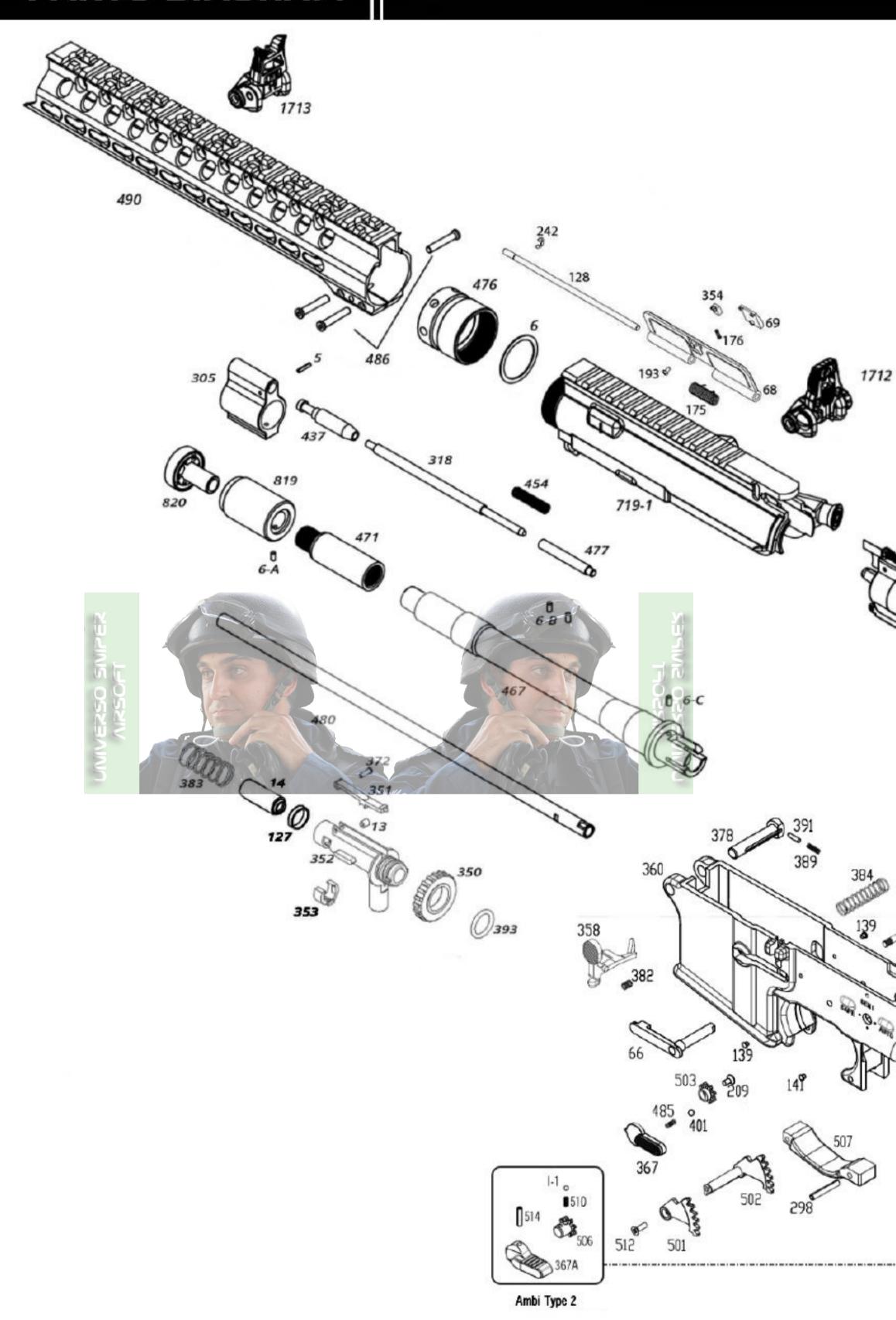
Dust or sand can get into a gun and cause malfunctions and/or excessive wear. Keep the gun covered whenever possible. Use lubricant sparingly, as lube naturally attracts dirt and other particles. After use in a dusty area, always field strip the gun (refer to Disassembly Section) and clean any areas you can reach with a soft, lint-free cloth.



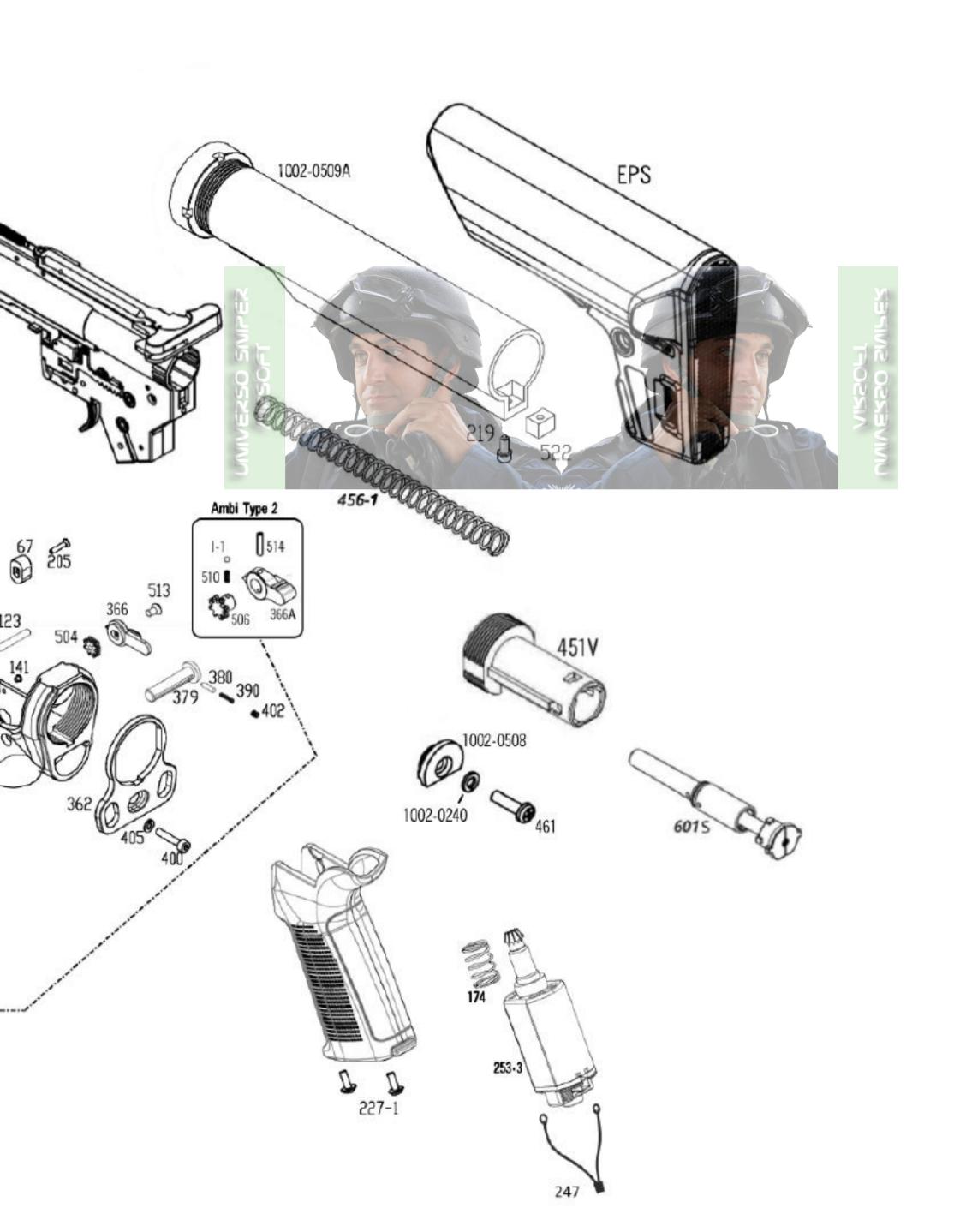




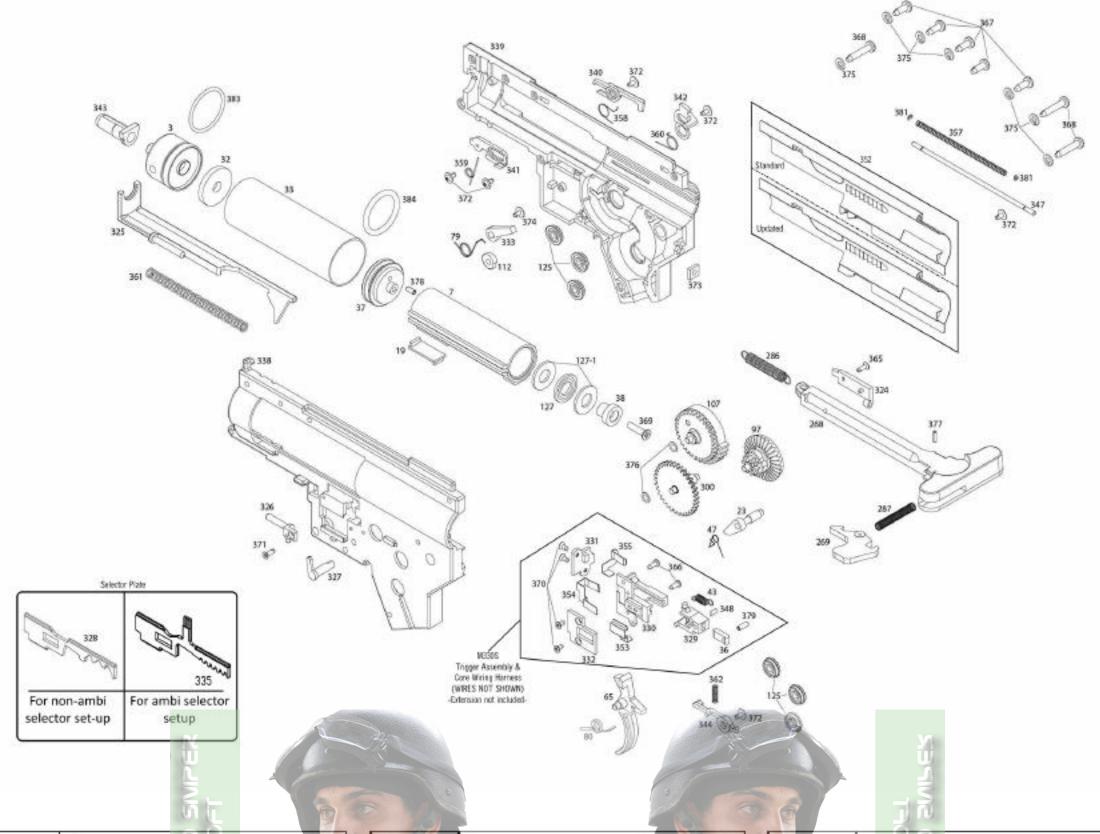
# PARTS DIAGRAM RŌNIN SBR











	OI L	
МЗ	Cylinder Head	
M7	Piston U Z	
M19	Piston Tooth (Steel)	
M23	Anti-Reverse Latch	
M23-1	Anti-Reverse Latch Axis	
M32	Cylinder Head Buffer	
M33	Cylinder	
M36	Cut-Off Brush	
M37	Piston Head	
M38	Piston Head Retainer	
M43	Cut-Off Switch Spring	
M47	Anti-Reverse Latch Spring	
M65	Trigger	
M79	Trigger Block Spring	
M80	Trigger Spring	
M97	Bevel Gear	
M101	Spur Gear	
M107	Sector Gear	
M112	Sector Gear Timing Collar	
M125	Bearings x6	
M127	Beveled Washer	
M127-1	Piston Head Washers x2	
M268	Charge Handle	
M269	Charge Handle Latch	
M286	Charge Handle Spring	

M287	Charge Handle Latch Spring	
M324	Charge Handle Plate	
M325	Tappet Plate	
M326	Tappet Plate Spring Guide	
M327	Trigger Block Base	
M328	Selector Plate	
M329	Cut-Off Shuttle	
M330	Wire Harness Base	
M331	Wire Harness Front Plate	
M332	Wire Harness Side Plate	
M333	Trigger Block	
M340	Cut-Off Lever	
M341	Shuttle Reset Plate	
M342	Cut-Off Lever Reset	
M343	Loading Nozzle	
M344	Disconnector	
M347	Bolt Plate Guide Rod	
M348	Shuttle Pin	
M352	Bolt Plate	
M353	Selector Current Brush	
M354	Wire Harness Current Brush (Left)	
M355	Wire Harness Current Brush (Right)	
M357	Bolt Plate Spring	
M358	Cut-Off Lever Spring	
M359	Shuttle Reset Plate Spring	

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M860	Cut-Off Reset Lever Spring	
M361	Tappet Plate Spring	
M362	Disconnector Spring	
M365	Charge Handle Plate Screw	
M366	Wire Harness Screws x2	
M367	Mech-Box Hex Screws Short x5	
M368	Mech-Box Hex Screws Long x3	
M369	Piston Head Screw	
M370	Wire Harness Plate Screws x4	
M371	Tappet Plate Spring Guide Screw	
M372	Retaining Screws x6	
M373	Threaded Insert	
M374	Trigger Block Screw	
M375	Lock Washers x7	
M376	Gear Shims x2	
M377	Charge Handle Roll Pin	
M378	Piston Head Set Screw	
M379	Cut-Off Brush Roll-Pin	
M381	Bolt Plate Spring C-Clamps x2	
M383	Cylinder Head O-Ring	
M384	Piston Head O-Ring	
M386	Mech-Box Shell (Left)	
M387	Mech-Box Shell (Right)	



## KWA Performance Industries, Inc.

T: (626) 581-1777 • F: (626) 581-0777
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