

# USER'S MANUAL

## SEMI-AUTOMATIC RIFLE V-AR



**Read this manual before using the rifle.**

### **WARNING**

Never presume the rifle is unloaded! Do not rely on your memory. Removing the magazine does not unload the rifle. Visually inspect the chamber and the magazine well each time the rifle is used to be certain there are no cartridges present. To unload, follow the correct unloading sequence.

Always keep your firearm pointed in a safe direction. Never point your firearm at persons, animals or objects.

To avoid an unintentional discharge, keep your fingers off the trigger and the trigger guard unless you are aiming at a target and willing to shoot.

Keep safe distance from other persons, animals and inflammables!

Any firearm including V-AR rifle is dangerous and should be stored unloaded and locked in a location that is both separate from their ammunition and inaccessible to children and any other unauthorized person.

Improper use may cause death or serious injury!

Use only ammunition recommended by the manufacturer!

Before you do anything with the V-AR rifle please read the instructions and warnings in this manual carefully. Make sure you understand them.

The warranty period is set by law.

The manufacturer disclaims responsibility for any damage or injury whatsoever occurring in connection with, or as a result of, alterations, improper use or improper storage of the V-AR firearms.

**The ammunition recommended for your firearms is designated as 223 Rem. or 9 mm Luger (or other - check the caliber designation on your firearm).**

## GENERAL DESCRIPTION

The **V-AR rifle cal. 223 Rem.** is gas-operated, piston-driven, autoloading rifle with a trigger safety.

The **V-AR carbine cal. 9 mm Luger** is a blowback operated autoloading rifle with a trigger safety.

Each round is automatically chambered until the magazine is empty. After the last round from the magazine is fired, the bolt remains open, retained by the bolt catch.

The trigger mechanism includes a disconnecter for semi-automatic fire only. Selective-fire variants are available only for law enforcement and military customers.

The magazine release and the safety are easy to operate with the trigger hand.

## TECHNICAL SPECIFICATION

**Caliber:** 223 Rem. or 9 mm Luger

**Magazine capacity:** 10, 20 or 30 rounds.

**Weight, barrel length:**

Barrel		Length min/max		Weight	
inch	mm	inch	mm	pound	kg
10,5	266	25.59/29.13	650/740	6,39	2,9
12,5	317	27.55/30.70	700/780	7,05	3,2
14,5	368	29.52/32.67	750/830	7,49	3,4
16,5	419	31.49/34.64	800/880	7,93	3,6
18	457	32.67/36.61	830/930	8,37	3,8

Weights and lengths are only indicative and stock type dependent.



## **STANDARD EQUIPMENT**

Polymer hard case for transport and storage with locking option.

## **SIGHTS**

Flip-up iron front and rear sight.

The rear sight is adjustable in windage. The front sight is adjustable in elevation.

## **LOADING AND FIRING**

Before firing always visually check the chamber and the bore for obstructions. If an obstruction is present it must be removed.

1. Load the magazine by pushing each cartridge down into the magazine.
2. Insert the magazine into the magazine well until the magazine is locked in place by the magazine release.
3. Pull the bolt charging handle all the way backwards with your free hand and let it snap forwards. Keep your index finger off the trigger and the trigger guard. The rifle is now cocked.
4. After firing the last cartridge from the magazine the bolt will remain open. Remove the empty magazine by depressing the magazine release button. After inserting a new magazine either push the bolt release lever down or fully retract the bolt charging handle and let it snap forwards. The rifle is now cocked again.

There are 10, 20 or 30 round magazines available.

**Failure to fire - faulty primer:** Wait 1 minute, then fully retract the bolt charging handle to eject the faulty cartridge (point the rifle in a safe direction). Let authorized personnel dispose of the faulty cartridge.

## **UNLOADING**

1. Remove the magazine.
2. Eject a chambered cartridge by fully retracting the bolt charging handle.
3. Visually inspect the chamber to be sure it's empty.
4. Let the bolt snap forward and pull the trigger (point the rifle in a safe direction). The trigger should remain in the rear position.

**All 4 above described points must be fully followed to unload the rifle.**

## DISSASSEMBLY AND REASSEMBLY

1. Press the magazine release button and remove the magazine out of the magazine well.



2. Firmly grasp the bolt charging handle and fully retract the bolt all the way to the rear. Visually inspect the chamber to be sure it's empty.



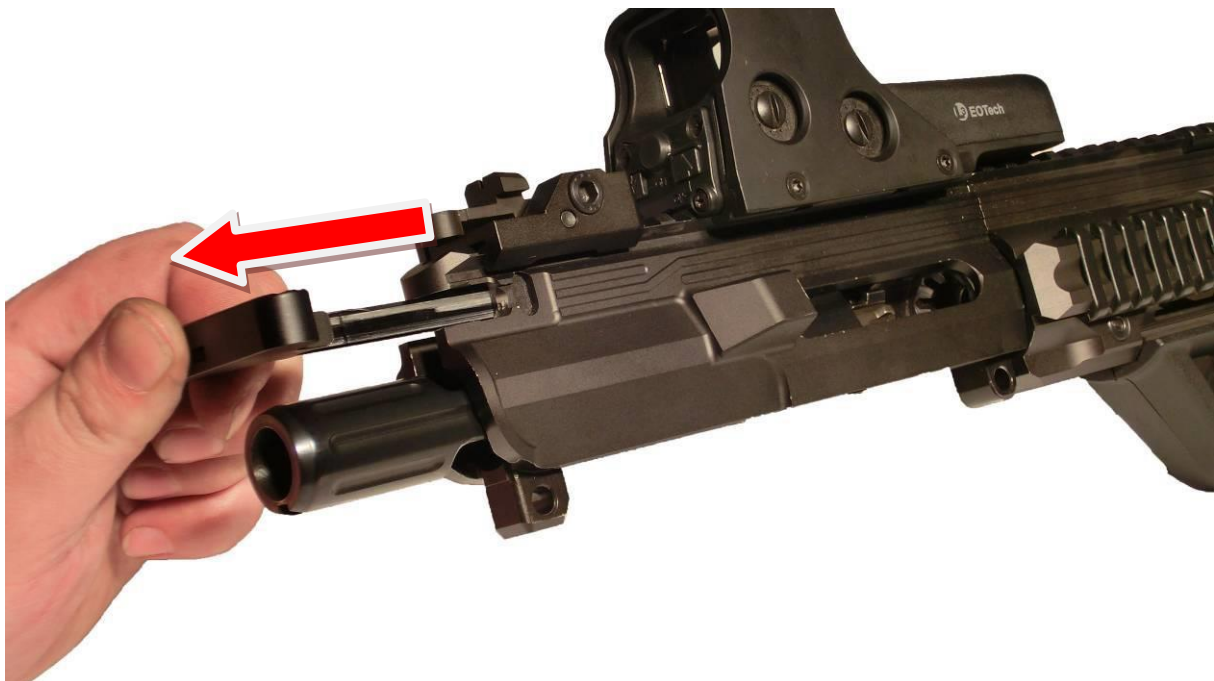
3. Using the tip of a cartridge, or other suitable tool, push the pins connecting the upper and the lower receiver inwards from the left side of the rifle. First the rear pin then the front pin.



4. Disconnect the upper and the lower receiver. There is no need to further disassemble the lower receiver with the stock, pistol grip, magazine well and the trigger mechanism.



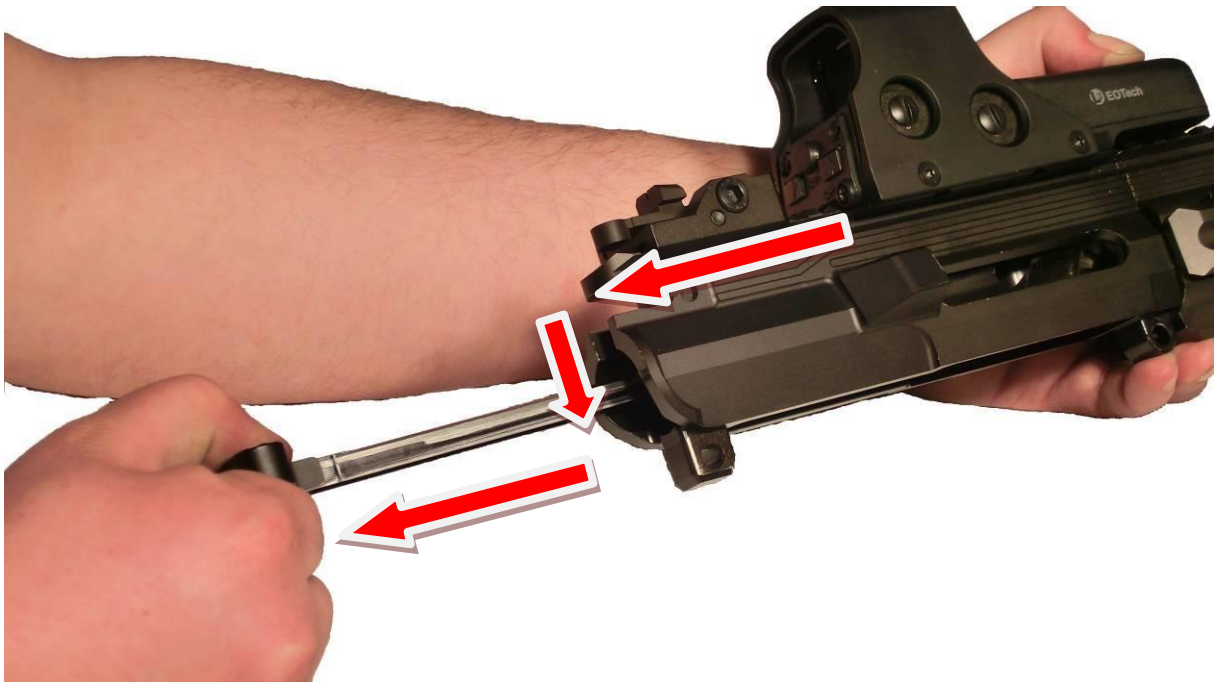
5. Pull the bolt out of the receiver by fully retracting the bolt charging handle.



6. Grasp the rear part of the bolt and remove it from the receiver.



7. Grasp the charging handle and retract it all the way to the rear then pull it downwards and out of the receiver.



8. Using 4 mm Allen key remove the screw which tightens the handguard against the barrel nut by turning it counterclockwise. Remove the screw.





9. Pull the handguard in the direction towards the muzzle and remove it. If the handguard can't be initially pulled off the barrel nut, tap the rear edge of the side weaver rail using an appropriate tool such as a rubber mallet, piece of wood or a wooden hammer grip.

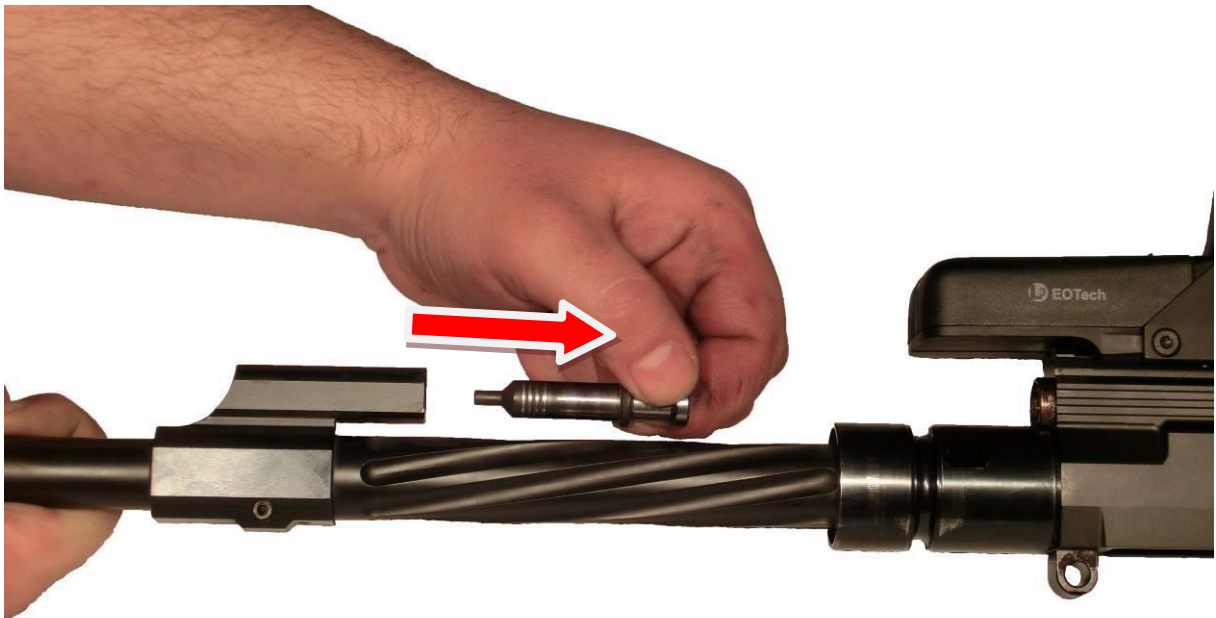


10. Grasp the piston rod and press its spring rearwards into the frame, then lift its front part and pull it out towards the muzzle. The charging handle must be removed or fully retracted into its rear position, otherwise the piston rod can't be lifted upwards!





11. Grasp the piston and remove it from the piston cylinder by pulling it to the rear.



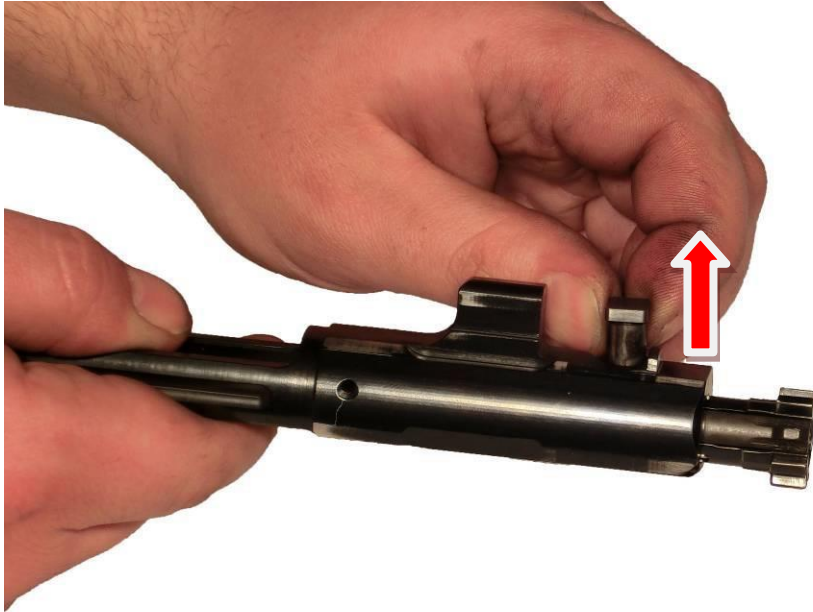
12. Using the tip of a cartridge bullet or other suitable tool remove the firing pin cotter pin from the bolt.



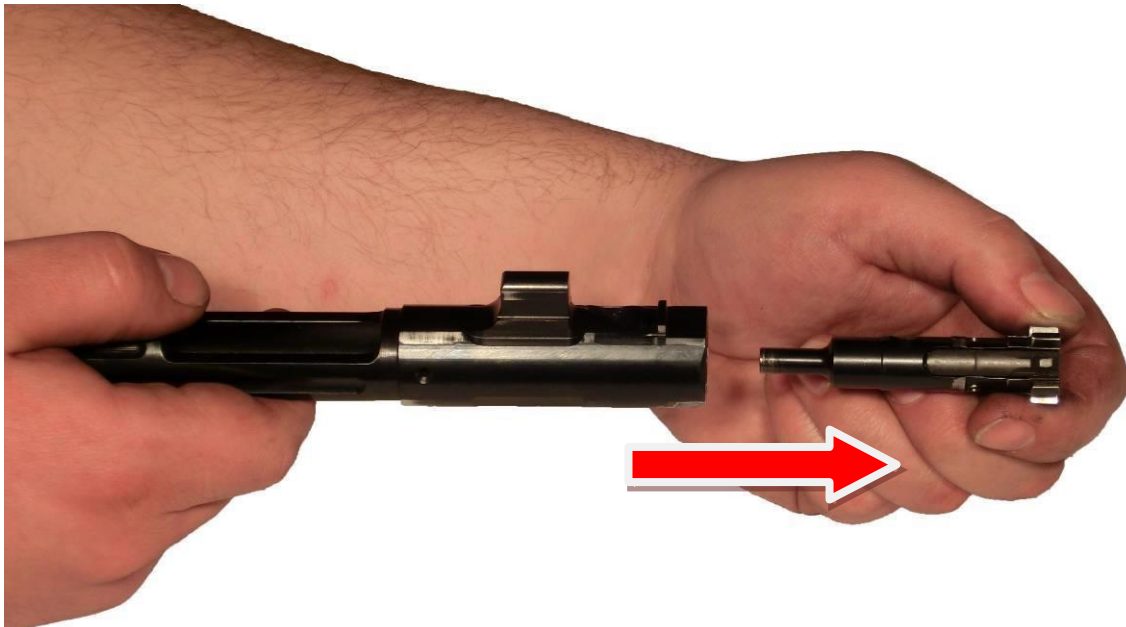
13. Grasp the bolt with the firing front tip facing up as shown on the picture below and by tapping the bolt let the firing pin slide out of the firing pin channel and remove the firing pin.



14. Grasp the bolt rotation driving pin and pull it out of the bolt.



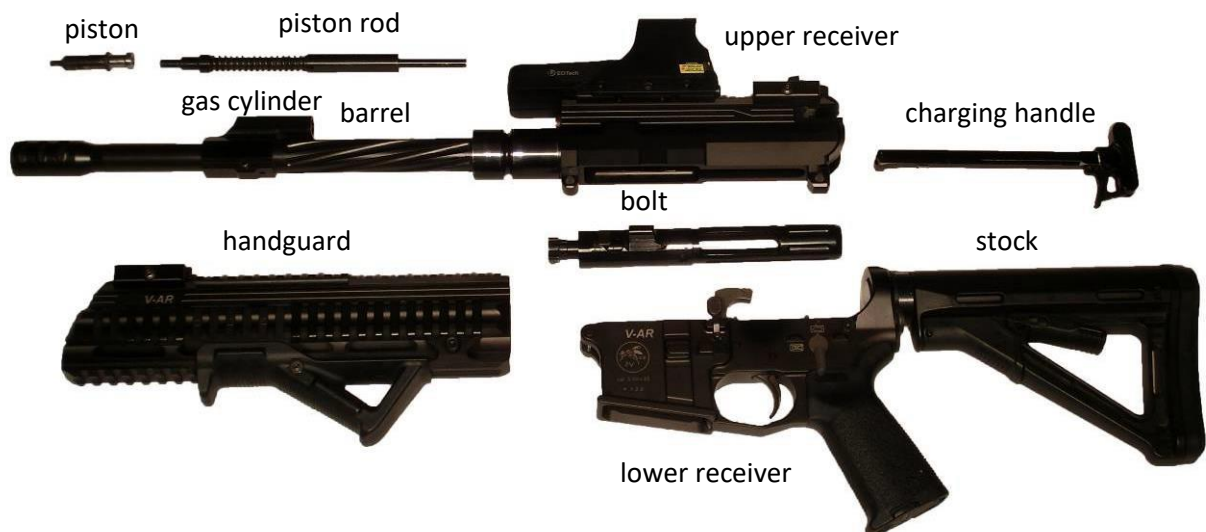
15. Pull the bolt out of the bolt carrier.



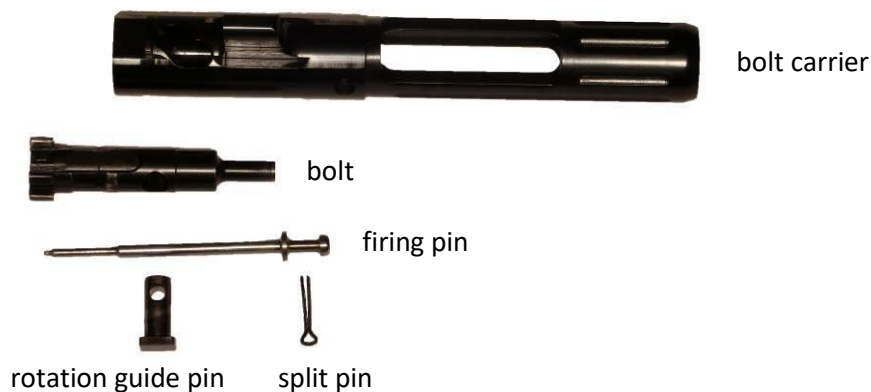
**To disassemble a 9 mm rifle follow the same instructions as for the 223 caliber rifle, just skip articles 8, 9, 10, 11, 14 and 15.**

To reassemble, reverse the procedure.

Insert the bolt into the bolt carrier, while making sure of rotating the bolt into the correct position. The extractor must be pointing in 10 o'clock direction when observed from the bolt's front forehead. Insert the bolt rotation driving pin into the block inside the bolt carrier and simultaneously into the hole in the bolt. Turn the bolt head so the shorter edge of the rectangular head is parallel to the bolt axis. Insert the firing pin all the way into the rear hole of the bolt carrier. Then insert the cotter pin to lock the firing pin in place. Insert the piston into the gas cylinder and then insert the piston rod with its longer end first into the hole in the receiver. Make sure the piston rod is in the correct position with the flat area pointing in the direction towards the barrel. Push the piston rod against its spring, align the piston rod parallel to the barrel and slide its front part into the piston. Slide the handguard onto the barrel all the way towards the receiver. Make sure the handguard is aligned parallel to the barrel during sliding. Insert the screw into the hole and tighten it using 4 mm Allen key. Insert the charging handle into the bottom part of the upper receiver. Insert the charging handle aligned parallel to the barrel axis then push it upwards in the direction towards the upper Weaver rail. Find the correct position by sliding the charging handle forwards and backwards, it will snap into place. Then push it slightly into the receiver in the shooting direction. Now insert the bolt into the receiver, while paying attention to the correct position of the bolt which must be fully slid out of the bolt carrier. It is recommended to point the front end of the receiver towards the ground when inserting the bolt. Drive the bolt all the way in after inserting it into the receiver. Align the upper receiver with the lower receiver and push both connecting pins all the way in.



**Bolt mechanism**



**The 9 mm rifle has no gas cylinder, no piston and no piston rod. The bolt mechanism is comprised of bolt, firing pin and split pin only.**

## SIGHT ADJUSTMENT:

**WINDAGE ADJUSTMENT.** You can adjust windage by turning the adjustment screw on the right side of the rear sight.

**Turning the screw adjusts both the ghost ring and the open rear U-notch simultaneously.** Using a 5 mm Allen key turn the screw counter-clockwise to move the point of impact to the left. To move the point of impact to the right, turn the screw clockwise.

**ELEVATION ADJUSTMENT.** Adjusting the unfolded front sight for use with the ghost ring rear sight is done separately from the adjustment of the folded front sight.

**The unfolded front sight** is adjusted after unlocking the screw on the side using a 1.5 mm Allen key. It is then possible to turn the unfolded front sight using your fingers. To move the point of impact downwards turn the unfolded front sight counter-clockwise. To move the point of impact upwards turn the unfolded front sight clockwise. When the adjusting is finished, tighten the screw on the right side to prevent accidental turning of the front sight.

**The folded front sight adjusts** by turning the adjustment screw on the top of the folded front sight using 1.5 mm Allen key. To move the point of impact downwards turn the screw clockwise. To move the point of impact upwards turn the screw counter-clockwise..





## **CLEANING A LUBRICATING**

To ensure reliable operation and to prevent jamming of the rifle clean and lubricate the rifle after every time you use it. Use any commercially available gun oil.

Lubricate all moving metal parts that slide up on each other.

Clean and lubricate the barrel using gun oil. Always wipe the barrel dry cleaning and lubricating.

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