

BERETTA



Cal. .22 L.R.



**Instruction Manual**



ALWAYS KEEP THIS MANUAL WITH YOUR FIREARM. INCLUDE IT WITH THE FIREARM WHEN IT CHANGES OWNERSHIP OR WHEN IT IS LOANED OR PRESENTED TO ANOTHER PERSON.

**Notice:** The Manufacturer and/or its Local Official Distributors assume no responsibility for product malfunction or for physical injury or property damage resulting in whole or in part from criminal or negligent use of the product, improper or careless handling, unauthorized modifications, use of defective, improper, hand-loaded, reloaded or remanufactured ammunition, customer abuse or neglect of the product, or other influences beyond manufacturer's direct and immediate control.

**WARNING:** ALL FIREARMS HAVE LETHAL POTENTIAL. READ THE BASIC SAFETY RULES CAREFULLY AND UNDERSTAND THEM FULLY BEFORE ATTEMPTING TO USE THIS FIREARM.

In addition to the Basic Safety Rules, there are other Safety Rules pertaining to the loading, unloading, disassembly, assembly and use of this firearm, located throughout this manual.

**WARNING:** READ THE ENTIRE MANUAL CAREFULLY BEFORE USING THIS FIREARM. MAKE SURE THAT ANY PERSON USING OR HAVING ACCESS TO THIS FIREARM READS AND UNDERSTANDS ALL OF THIS MANUAL PRIOR TO USE OR ACCESS.

**WARNING:** In order to permit the use of the ARX 160 .22LR carbine and pistol in all situations, even in the case of involuntary dropping or loss of the magazine, these models are NOT provided with a magazine disconnect safety. The FIREARM is therefore capable of firing, if a round is chambered, even if the magazine has not been inserted or if it has been removed or if it has been dislodged from its seat.

WE RECOMMEND THE USE OF ORIGINAL BERETTA SPARE PARTS AND ACCESSORIES. THE USE OF OTHER MANUFACTURER'S SPARE PARTS AND ACCESSORIES COULD CAUSE MALFUNCTIONS AND/OR BREAKAGES THAT WILL NOT BE COVERED BY THE BERETTA WARRANTY.

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# BASIC SAFETY RULES

**WARNING:** PLEASE READ THIS MANUAL BEFORE HANDLING YOUR FIREARM.

**WARNING:** FIREARMS CAN BE DANGEROUS AND CAN POTENTIALLY CAUSE SERIOUS INJURY, DAMAGE TO PROPERTY OR DEATH, IF HANDLED IMPROPERLY. THE FOLLOWING SAFETY RULES ARE AN IMPORTANT REMINDER THAT FIREARM SAFETY IS YOUR RESPONSIBILITY.

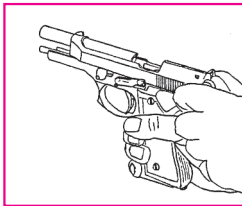
## 1. NEVER POINT A FIREARM AT SOMETHING THAT IS NOT SAFE TO SHOOT.

Never let the muzzle of a firearm point at any part of your body or at another person. This is especially important when loading or unloading the firearm. When you are shooting at a target, know what is behind it. Some bullets can travel over a mile. If you miss your target or if the bullet penetrates the target, it is your responsibility to ensure that the shot does not cause unintended injury or damage.



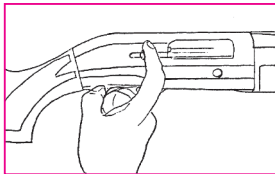
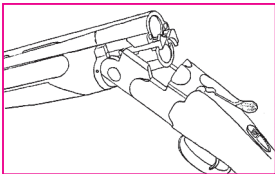
## 2. ALWAYS TREAT A FIREARM AS IF IT WERE LOADED.

Never assume that a firearm is unloaded. **The only certain way to ensure that a firearm has the chamber(s) empty is to open the chamber and visually and physically examine the**



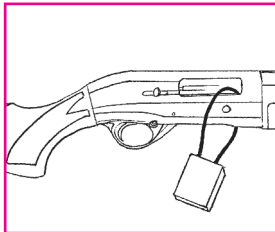
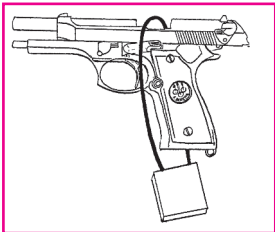
inside to see if a round is present.

**Removing or unloading the magazine will not guarantee that a firearm is unloaded or cannot fire.** Shotguns and rifles can be checked by cycling or removing all rounds and by then opening and inspecting the chamber so that a visual inspection of the chamber for any remaining rounds can be made.



### 3. STORE YOUR FIREARM SO THAT CHILDREN CANNOT GAIN ACCESS TO IT.

It is your responsibility to ensure that children under the age of 18 or other unauthorized persons do not gain access to your firearm. **To reduce the risk of accidents involving children, unload your firearm, lock it and store the ammunition in a separate locked location.** Please note that devices intended to prevent accidents - for example, cable locks, chamber plugs, etc. - may not prevent use or misuse of your firearm by a determined person. Firearm storage in a steel gun safe may be more appropriate to reduce the likelihood of intentional misuse of a firearm by an unauthorized child or person.





#### 4. NEVER SHOOT AT WATER OR AT A HARD SURFACE.

Shooting at the surface of water or at a rock or other hard surface increases the chance of ricochets or fragmentation of the bullet or shot, which can result in the projectile striking an unintended or peripheral target.



#### 5. KNOW THE SAFETY FEATURES OF THE FIREARM YOU ARE USING, BUT REMEMBER: SAFETY DEVICES ARE NOT A SUBSTITUTE FOR SAFE HANDLING PROCEDURES.

Never rely solely on a safety device to prevent an accident. It is imperative that you know and use the safety features of the particular firearm you are handling, but accidents can best be prevented by following the safe handling procedures described in these safety rules and elsewhere in the product manual. To further familiarize yourself with the proper use of this or other firearms, take a Firearms Safety Course taught by an expert in firearms use and safety procedures.

#### 6. PROPERLY MAINTAIN YOUR FIREARM.

Store and carry your firearm so that dirt or lint does not accumulate in the working parts. Clean and oil your firearm, following the instructions provided in this manual, after each use to prevent corrosion, damage to the barrel or accumulation of impurities which can prevent use of the gun in an emergency. Always check the bore and chamber(s) prior to loading to ensure that they are clean and free from obstructions.



**Firing with an obstruction in the barrel or chamber can rupture the barrel and injure you or others nearby.**

In the event you hear an unusual noise when shooting, stop firing immediately, engage the manual safety and unload the firearm. Make sure the chamber and barrel are free from any obstruction, like a bullet blocked inside the barrel due to defective or improper ammunition.

## 7. USE PROPER AMMUNITION.

Only use factory-loaded, new ammunition manufactured to industry specifications: CIP (Europe and elsewhere), SAAMI® (U.S.A.). Be certain that each round you use is in the proper caliber or gauge and type for the particular firearm. The caliber or gauge of the firearm is clearly marked on the barrels of shotguns and on the slide or barrel of pistols. The use of reloaded or remanufactured ammunition can increase the likelihood of excessive cartridge pressures, case-head ruptures or other defects in the ammunition that can cause damage to your firearm and injury to yourself or others nearby.

There is a broad array of .22LR ammunition made by many manufacturers in different brands and types. To ensure reliable operation, a semi-automatic firearm must be matched to a certain cartridge load. The Beretta ARX 160 .22LR has been designed for high quality standard and HV(High Velocity) ammunition. Beretta suggests that you try several boxes of a recommended brand/type of ammunition in your ARX 160 .22LR before you put it into regular use to determine reliability of ignition and performance of your ammunition. If issues occur, try different recommended brands until a reliable load is found. Based on our testing and evaluation, Beretta recommends the following ammunition for optimal performance:

- Federal American Eagle
- CCI Standard
- CCI Stinger
- CCI MiniMag
- RWS R100
- RWS R50

Other .22LR ammunition may also work well but should be evaluated for function and performance.



Notice: You should clean the barrel bore every 200-300 rounds with an appropriate firearm cleaning lead solvent to prevent lead build up which can lead to innacuracy and poor functioning.

## **8. ALWAYS WEAR PROTECTIVE GLASSES AND EARPLUGS WHEN SHOOTING.**

The chance that gas, gunpowder or metal fragments will blow back and injure a shooter who is firing a gun is rare, but the injury that can be sustained in such circumstances can be severe, including the possible loss of eyesight. A shooter must always wear impact resistant shooting glasses when firing any firearm. Earplugs or other high-quality hearing protectors help reduce the chance of hearing damage from shooting.



## **9. NEVER CLIMB A TREE, FENCE OR OBSTRUCTION WITH A LOADED FIREARM.**

Open and empty the chamber(s) of your firearm and engage the manual safety before climbing or descending a tree or before climbing a fence or jumping over a ditch or other obstruction. Never pull or push a loaded firearm toward yourself or another person. Always unload a firearm, visually and physically check to see that the magazine, loading mechanism and chamber are unloaded, and action is open before handing it to another person. Never take a firearm from another person unless it is unloaded, visually and physically checked to confirm it is unloaded, and the action is open.





**10. AVOID ALCOHOLIC BEVERAGES OR JUDGMENT/ REFLEX IMPAIRING MEDICATION WHEN SHOOTING.**

Do not drink and shoot. If you take medication that can impair motor reactions or judgment, do not handle a firearm while you are under the influence of the medication.



**11. NEVER TRANSPORT A LOADED FIREARM.**

Unload a firearm before putting it in a vehicle (chamber empty, magazine empty). Hunters and target shooters should load their firearm only at their destination, and only when they are ready to shoot. If you carry a firearm for self-protection, leaving the chamber unloaded can reduce the chance of an unintentional discharge.

**12. LEAD WARNING.**

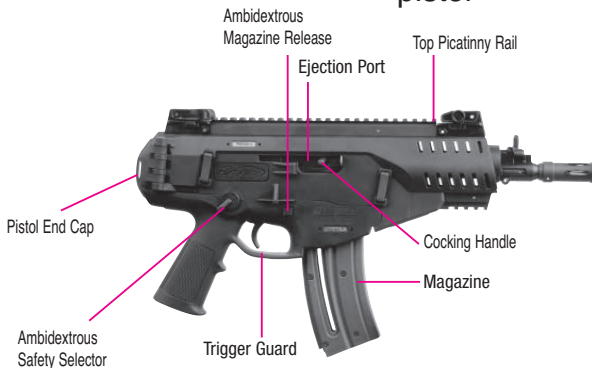
Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead and other substances known to cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all times. Wash hands thoroughly after exposure.

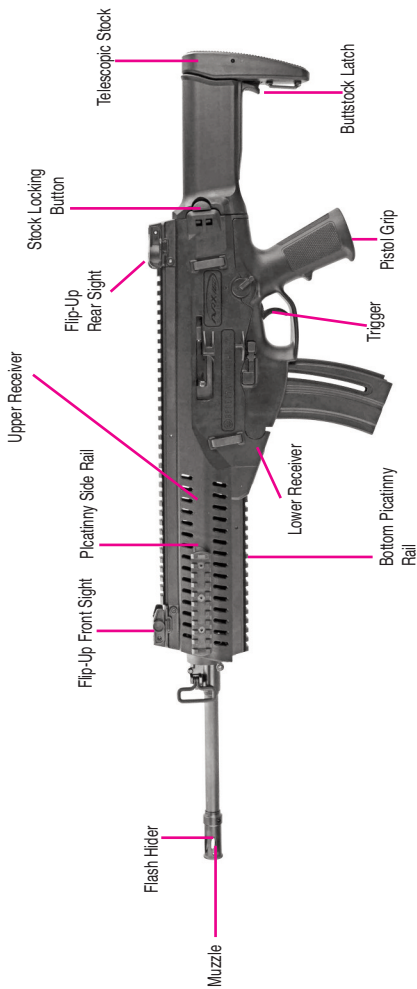
**WARNING:** It is YOUR responsibility to know and abide by Federal, State and Local laws governing the sale, transportation and use of firearms in your area.

**WARNING:** This firearm has the capability of taking your life or the life of someone else! Always be extremely careful with your firearm. An accident is almost always the result of not following basic firearm safety rules.



# NOMENCLATURE ARX 160 .22LR pistol





## ARX 160 .22LR carbine



## DESCRIPTION

The ARX 160 in caliber .22 L.R. is the perfect platform for training purposes. The weight and the balance of the gun are similar to the caliber 5.56 mm x 45 NATO rifles and most operating elements are in the same position.

Magazines are available in varying capacities: 5, 10, 20 (standard) or 30 rounds.

## SAFETY FEATURES

### SAFETY SELECTOR

Your ARX 160 .22LR is equipped with an ambidextrous manual thumb safety.

**WARNING:** ALWAYS LEAVE THE MANUAL SAFETY ENGAGED (ON "SAFE") UNTIL YOU INTEND TO FIRE.

The positions visible on the safety selector are the following ones:

### SAFE POSITION

rotate the safety lever so that it points to SAFE, indicated by the letter S (**Fig. 1 + 3**).

### FIRE POSITION

rotate the safety lever so that it points to FIRE, indicated by the letter F (**Fig. 2 + 4**).

### FIRE POSITION

rotate the safety lever so that it points to Disassemble, The position past the letter S. (**Fig. 1a**).

**WARNING:** TO USE YOUR FIREARM IN A SAFE MANNER,

NEVER RELY SOLELY ON MECHANICAL FEATURES - ALWAYS BE EXTREMELY CAREFUL AND USE SAFE GUN HANDLING PRACTICES TO AVOID SITUATIONS THAT COULD LEAD TO AN ACCIDENT.

**WARNING: TO VERIFY YOUR FIREARM IS UNLOADED,** ALWAYS INSPECT THE CHAMBER AFTER THE MAGAZINE HAS BEEN REMOVED.

### **Empty chamber indicator.**

The empty chamber indicator (**Fig. 5**) is a piece of polymer that simulates a cartridge. When the indicator is installed into position in the chamber the red tab clearly shows that the chamber is clear of any ammo. The empty chamber indicator can be also used when dry-firing the gun, because the firing pin does not hit the barrel but the soft polymer.

## OPERATIONAL FEATURES

**Ambidextrous controls.** All of the major controls on the ARX160 .22LR are fully ambidextrous allowing you to configure the rifle for right or left-handed use.

- **Ambidextrous safety selector.**
- **Ambidextrous magazine catch.**
- **Reversible bolt handle.** The bolt handle can be positioned on left or right side of the bolt.

**Maximum reliability.** Dust and sand can turn your firearm's excessive lubricant into a clogging mixture and can even block safe firearm use. The ARX160 .22LR solves this problem by being engineered to require minimum lubrication, while providing maximum reliability in the most extreme conditions.

**Easy field stripping.** The ARX160 .22LR requires no tools and has pin free disassembly. This quick and easy design also allows you to clean the barrel from the breech end.



**Foldable, adjustable stock.** Pick your preferred position. The stock collapses into four positions and folds for easy transportation.

**All sling attachment points are strategically positioned** to give you the most options for use and to provide complete comfort and ease of use.

**All Picatinny rails meet MIL – STD-1913.** Top and bottom rails are CNC machined from high strength aluminum. The finish is hard anodized and laser engraved.

**Adjustable flip-up front sight.** Click- adjustable for windage and elevation.

**Adjustable flip-up rear sight** with 5 different diopter settings.

**Technopolymer frame.** The extensive use of technopolymers in the ARX 160 .22LR design has allowed the development of a light and technically advanced firearm and equipped it with very modern, extremely captivating and ergonomic lines. The technopolymer also guarantees corrosion resistance and color consistency (the color will never wear or scratch off).

### **Removable magazine**

The ARX 160 .22LR has a quickly removable, magazine which allows for rapid reloading.

**WARNING:** In order to permit the use of the ARX 160 .22LR carbine and pistol in all situations, even in the case of involuntary dropping or loss of the magazine, these models are NOT provided with a magazine disconnect safety. The FIREARM is therefore capable of firing, if a round is chambered, even if the magazine has not been inserted or if it has been removed or if it has been dislodged from its seat.

The capacity of magazine for the ARX 160 .22LR models is as follows:

cal. .22 L.R. – 5, 10, 20, 30 rounds, staggered magazine.

**WARNING:** Consult local authorities for maximum magazine capacity restrictions that may apply in your locale.

## GENERAL OPERATION

The ARX160 .22LR is a semiautomatic blowback type firearm. Upon firing the inertia of the fired cartridge pushes the bolt back, ejects the spent cartridge, cocks the hammer and compresses the recoil spring. The bolt will then automatically move forward to the closed position, feeding the next cartridge from the magazine into the chamber. The bolt is designed to stay open after the last round has been fired and ejected.

### SPECIFICATIONS

Operation	Semiauto
Locking System	Blowback
Caliber	.22 L.R. HV
Safety	Manual with selector
Action	Single
Flash hider	Removable
Magazine Capacities	5,10,20,30 rounds
Rear sight	Flip up, adjustable with different diopters
Front sight	Flip up, adjustable for windage and elevation



# TECHNICAL DATA

	<b>ARX 160 .22LR CARBINE</b>	<b>ARX 160 .22LR PISTOL</b>
Overall length	920 - 680 mm 36.2 - 26.7 inch	480 mm 18.9 inch
Overall height	290 - 250 mm 11.4 - 9.8 inch	290 - 250 mm 11.4 - 9.8 inch
Width	80 mm / 3.1 inch	80 mm / 3.1 inch
Barrel length	460 mm / 18 inch 380 mm/15 inch	211 mm / 8.5 inch
Sight radius	330 mm / 13 inch	255 mm / 10 inch
Weight without the magazine	2800 g / 6.1 lbs 3000 g /6.6 lbs	1700 g / 3.7 lbs.
Trigger pull	(2500 - 3500 g) 5.5 - 7.7 lbs	(2500 - 3500 g) 5.5 - 7.7 lbs



# LOAD CHECK

In this manual you will frequently be instructed to “visually check to be certain your ARX 160 .22LR is unloaded.” This should become second nature to you. You should:

- Never assume that a firearm is unloaded (even a gun that is new and in its original packaging).
- Never point or push a firearm toward yourself or another person.
- Always open and visually check to see that the chamber is unloaded.
- Engage the manual safety, lock the bolt in the open position and remove the magazine before handing the firearm to another person.
- Never take or pull this firearm from another person unless the safety is engaged, the magazine is removed, the bolt is open, and the chamber has been visually checked to confirm it is unloaded.

To visually check to be certain your ARX 160 .22LR is unloaded, carefully follow the steps below.

**WARNING: Keep your finger OFF THE TRIGGER with the safety engaged and the barrel pointed in a SAFE direction until you are on target and prepared to fire.**

Notice: To lock the bolt in the open position, an empty magazine must be seated in the magazine well.

- Engage the manual safety by turning the manual selector to the Safe position (**Fig. 1+3**).
- Remove the magazine by pushing the magazine release button (**Fig. 6**).
- Retract the bolt handle to open the bolt (**Fig. 7**) (Releasing the bolt when a magazine is not in the firearm will automatically close the bolt). Always keep your finger away from the ejection port.
- Check the chamber to be certain it is empty (**Fig. 8**).



If the firearm is unloaded, proceed to the following step, otherwise refer to the procedure: UNLOADING THE FIREARM.

- Pull bolt handle rearward and then release allowing it to freely move forward.

**THE HAMMER IS COCKED!** If you wish to decock the hammer to relieve hammer spring tension for storage, please proceed as follows.

- Engage the safety.
- Remove the magazine.
- Pull the bolt handle rearward and inspect the chamber to ensure the firearm is unloaded.
- Allow the bolt to close and then with the barrel pointed in a safe direction, disengage the manual safety by turning the safety selector to the FIRE position. (Fig. 2+4).
- Decock the hammer by pulling the trigger.

**Notice:** The hammer can be decocked only when the bolt is in the closed position.

## OBSTRUCTION CHECK

Check the barrel to be sure there are no obstructions in the chamber and bore. This is extremely important because if another cartridge is fired into an obstructed barrel, a dangerous catastrophic failure can result.

To visually check to be sure there are no obstructions in the barrel, follow the field stripping procedures listed in the disassembly paragraph.

## DISASSEMBLY

**WARNING:** Always be certain that the firearm is unloaded.

To do this please refer to the instructions given in the "LOAD CHECK" section of this manual.

**Notice:** It is advisable to carry out the field stripping operations over a table to catch components should they drop.

**WARNING:** NEVER DO ANYTHING BEYOND WHAT YOU ARE SPECIFICALLY INSTRUCTED TO DO IN THIS MANUAL. NEVER ALTER OR MODIFY THE PARTS IN YOUR FIREARM.

**WARNING:** ALWAYS WEAR EYE PROTECTION THAT IS SPECIFIED FOR USE WITH FIREARMS, EVERY TIME YOU HANDLE YOUR FIREARM FOR CLEANING AND MAINTENANCE.

To disassemble your ARX 160 .22LR first ensure it is unloaded, with the chamber empty. Insert an empty magazine and pull the bolt to the rear by the bolt handle to lock the bolt in the open position. Then:

- Remove the magazine.
- Close the bolt pulling the bolt handle rearward and releasing it.
- Fold the stock or the end cap to the right side of the firearm (**Fig. 9 and 10**).
- Grasp the firearm with one hand on the upper receiver and with the other hand on the pistol grip.
- Turn the safety selector to the DISASSEMBLE position. This is done by rotating the safety selector past the SAFE position. Selector must be held in the DISASSEMBLE position during disassembly as it is spring loaded. (**Fig. 1a**)
- Press the guide rod block in and pull the pistol grip away from the upper receiver to separate them. (**Fig. 11**).
- Let the guide rod block slide out of the upper receiver.
- To separate the bolt group from the receiver you first have to take out the bolt handle (**Fig. 12**).
- Since there is no longer tension on the mainspring, the bolt handle is unlocked and you simply have to extract it from the bolt. Now you will be able to slide the complete bolt group out of the rifle/pistol (**Fig. 13**).



- Look down the barrel from the breach end so that you can see completely through the barrel to ensure there are no obstructions.

If there is an obstruction detected in the barrel, qualified personnel (for example, a gunsmith) must remove the obstruction and inspect the firearm before it can be fired.

## **DISASSEMBLY OF THE BOLT GROUP**

**Notice:** Only disassemble the bolt group if the firing pin or extractor need to be replaced. For cleaning and maintenance it is not necessary to disassemble the bolt group.

- Press the bolt cover pin from right to left with the help of a punch or a small screwdriver (**Fig. 14**). The pin is held in position by a small metal spring inside the bolt cover.
- Now lift off the bolt cover from the bolt. Be careful as spring-loaded parts might pop out.

The firing pin and the extractor are now free and can easily be replaced.

**Notice:** Further disassembly is not necessary or recommended.

## REASSEMBLY

Reassembly works in the reverse order of the procedures described under DISASSEMBLY.

### **REASSEMBLY OF THE BOLT GROUP**

To reassemble the bolt group put the firing pin and the firing pin spring in position first. Then attach the bolt cover and fix it with the bolt cover pin.

Insert the extractor spring, the extractor bolt and finally snap in the extractor (**Fig. 15**).

**Notice:** Install the bolt cover pin from right to left. Installing from left to right may damage the retaining spring.

## AMMUNITION

**AMMUNITION (CARTRIDGE) NOTICE:** Beretta specifically disclaims responsibility for any damage or injury whatsoever occurring in connection with, or as the result of, the use in the Beretta ARX160 .22LR rifle and pistol of faulty, or non-standard, or “remanufactured,” or hand-loaded (reloaded) ammunition, or cartridges other than those for which the firearm was originally chambered.

Use only high-quality, commercially-manufactured ammunition that is manufactured in accordance with CIP (Europe and elsewhere) or SAAMI® (USA) standards. Be certain that the ammunition is the appropriate caliber and loading for the firearm and is clean, dry, and in good condition. The cartridge designation for your firearm is marked on the sides of the receiver.

### USE PROPER AMMUNITION.

Only use factory-loaded, new ammunition manufactured to industry specifications: CIP (Europe and elsewhere), SAAMI® (U.S.A.). Be certain that each round you use is in the proper caliber or gauge and type for the particular firearm. The caliber or gauge of the firearm is clearly marked on the barrels of shotguns and on the slide or barrel of pistols. The use of reloaded or remanufactured ammunition can increase the likelihood of excessive cartridge pressures, case-head ruptures or other defects in the ammunition that can cause damage to your firearm and injury to yourself or others nearby.

There is a broad array of .22LR ammunition made by many manufacturers in different brands and types. To ensure reliable operation, a semi-automatic firearm must be matched to a certain cartridge load. The Beretta ARX 160 .22LR has been designed for high quality standard and



HV(High Velocity) ammunition. Beretta suggests that you try several boxes of a recommended brand/type of ammunition in your ARX 160 .22LR before you put it into regular use to determine reliability of ignition and performance of your ammunition. If issues occur, try different recommended brands until a reliable load is found. Based on our testing and evaluation, Beretta recommends the following ammunition for optimal performance:

- Federal American Eagle
- CCI Standard
- CCI Stinger
- CCI MiniMag
- RWS R100
- RWS R50

Other .22LR ammunition may also work well but should be evaluated for function and performance.

**Notice:** You should clean the barrel bore every 200-300 rounds with an appropriate firearm cleaning lead solvent to prevent lead build up which can lead to inaccuracy and poor functioning.

**WARNING:** Carefully inspect each cartridge before it is loaded in the magazine. Be certain the cartridge cases are not split, deformed, or the cartridges do not possess any other dents or defects.

Do not fire old ammunition in this firearm. Primers, powder, cartridge cases, and bullets can deteriorate with time and cause damage to the firearm, or injury to the shooter or others.

**WARNING:** Do not use non-standard, or “remanufactured,” or hand-loaded (reloaded) ammunition, or cartridges other than those for which the firearm was originally chambered. Beretta assumes no liability for incidents occurring through the use of non-standard or incorrect ammunition. Use of reloaded or incorrect ammunition will void the manufacturer’s warranty.

### **DRY FIRING/”DUMMY” ROUNDS**

Dry firing is defined as firing a firearm with no ammunition in the

chamber. Long term dry firing your Beretta ARX160 .22LR rifle or pistol may result in damage to the action.

**Caution:** If you want to practice shooting your ARX160 .22LR without using live ammunition (called “dry firing”), insert the empty chamber indicator supplied with your firearm into the chamber to cushion the fall of the firing pin and reduce the chance of firing pin breakage.

## LOADING

**WARNING:** Beretta assumes no responsibility for any injury or property damage resulting from improper or careless handling, intentional or accidental discharge of the firearm.

**WARNING:** This firearm can have a live round in the chamber and can fire even if the magazine is empty or has been removed.

**WARNING:** Before the first time you load the firearm, become familiar with the following loading procedures without using ammunition.

Never handle a loaded firearm until you are fully familiar with the loading procedures. Always point the firearm in a safe direction.

**WARNING:** Always keep your finger away from the trigger whenever you do not intend to fire.

Make sure the firearm is not already loaded by removing the magazine and retracting the bolt in order to check that the chamber is empty.

**WARNING:** Be sure that you have the correct cartridges for your rifle or pistol.

**WARNING:** Be sure that the Obstruction Check has been completed prior to loading.



## LOADING THE MAGAZINE

- To load the magazine, remove it from the firearm by pushing the magazine release button (**Fig. 6**).
- With the magazine firmly on a surface, use the forefinger and thumb of one hand to slide down the follower as you insert rounds from the top of the magazine with your other hand. Each round should be fed rim-first through the guides in the feed lips. (**Fig. 7**).
- Repeat process until magazine is fully loaded.

**CAUTION:** Do not try to force more than the maximum number of rounds indicated for your firearm into the magazine. An overloaded magazine may not function properly.

## LOADING THE ARX160 .22LR AND ITS FIRING CHAMBER

**WARNING:** Point the firearm in a safe direction. Do not touch the trigger until you are ready to shoot. Be sure of your target and anything behind it.

The firing chamber of the firearm is the portion of the barrel into which the cartridge is fed. The firing chamber may be loaded in one of the following ways:

### LOADING FROM MAGAZINE

- Engage the manual safety by turning the safety selector to the SAFE position (**Fig. 1+3**).

**WARNING:** The safety selector is merely a mechanical device and is in no way a substitute for the Basic Safety Rules of firearm handling.

- Completely push the loaded magazine into magazine well to ensure magazine catch engagement.
- Pull back the bolt handle and release it. The bolt will automatically pick up a cartridge from the top of the magazine and feed it into the chamber.



**WARNING: THE FIREARM IS NOW LOADED WITH A ROUND IN THE CHAMBER, COCKED AND READY TO FIRE.** Keep your finger away from the trigger whenever you do not intend to fire.

**WARNING: THIS FIREARM, WHEN LOADED AND FIRED, WILL AUTOMATICALLY PICK UP THE NEXT ROUND AND FEED IT INTO THE FIRING CHAMBER AS LONG AS THERE IS AMMUNITION IN THE MAGAZINE.**

**Notice:** The manufacturer assumes no responsibility for any injury or property damage resulting from improper or careless handling, intentional or accidental discharge of the firearm. If you want to replace the round which has been chambered from the magazine (remembering that you are now handling a loaded firearm with a live round in the chamber):

- Check to ensure the manual safety is engaged.
- Remove the magazine from the firearm by pushing the magazine release button.
- Pull the bolt back to eject the chambered round.
- Insert one more cartridge into the magazine.
- Completely push the loaded magazine into the magazine well to ensure magazine catch engagement.
- Cycle the bolt to chamber a new round.

**WARNING: REMEMBER THAT YOU ARE HANDLING A LOADED FIREARM WITH A LIVE ROUND IN THE CHAMBER** Keep your finger away from the trigger whenever you do not intend to fire.

## UNLOADING

**WARNING:** Be certain the firearm is pointed in a SAFE direction.

**WARNING:** Do not place your finger on the trigger or inside the trigger guard.



- Engage the manual safety by turning the safety selector to the SAFE position (**Fig 1+3**).
- Pointing the firearm in safe direction, remove the loaded magazine from the magazine well.
- Fully retract the bolt handle by means of the bolt handle to remove the chambered cartridge.

**WARNING:** Always visually inspect the firing chamber to ensure that it is empty. The chamber is empty when no cartridge is visible when looking into the open chamber.

**WARNING:** If you are ejecting unfired cartridges, use extreme care to be sure they are ejected onto an appropriate surface. Never attempt to catch cartridges or fired cartridge cases as they fall.

**WARNING:** Never allow anything to come in contact with the primer of unfired ammunition. Doing so could cause the ammunition to detonate.

- When you are sure that the chamber is empty and the cartridge has been ejected, close the bolt.

**WARNING:** Closing the bolt cocks the hammer, enabling the ARX 160 .22LR to fire immediately when reloaded.

**WARNING:** Always unload the firearm immediately after you are done shooting.

## FIRING

**WARNING:** Only point a firearm at something that is safe to shoot. Never put your finger on the trigger unless you intend to shoot. Never disengage the safety on a firearm unless you intend to shoot.

The positions visible on the safety selector are the following:

SAFE POSITION - rotate the safety lever so that it points to

SAFE, indicated by the letter S (**Fig. 1 + 3**).

FIRE POSITION - rotate the safety lever so that it points to FIRE, indicated by the letter F (**Fig. 2 + 4**).

#### **WHEN READY TO FIRE:**

- Load the firearm using the loading procedures above.
- Point the firearm at the intended target.
- Release the manual safety by rotating the safety selector to the FIRE position.
  
- When the sights are aligned on your target, place your index finger inside the trigger guard and gently squeeze the trigger.

#### **WHEN THE FIREARM IS FIRED:**

The discharge will cause the bolt to move to the rear, which, in turn, will eject the fired cartridge case, cock the hammer and compress the recoil spring. Then the bolt will automatically close, feeding the next cartridge from the magazine into the chamber.

**WARNING:** THE FIREARM IS STILL LOADED, COCKED AND READY TO FIRE AGAIN. Keep your finger away from the trigger whenever you do not intend to fire and immediately engage the manual safety.

- After the first shot is fired, this process is repeated with each press of the trigger until the magazine is empty.
- After the last round in the magazine is fired, the bolt will automatically lock in the rearward position.
- If you have completed shooting before the magazine is empty, engage the manual safety, UNLOAD THE FIREARM (See page 25).
- To resume shooting, insert a loaded magazine and pull the bolt handle rearward and release to load the firearm.

**WARNING: REMEMBER THAT YOU ARE HANDLING A**



## **LOADED FIREARM WITH A LIVE ROUND IN THE CHAMBER**

Keep your finger away from the trigger whenever you do not intend to fire.

**WARNING:** Always unload the firearm immediately after shooting is completed. Never store a loaded firearm.

# TROUBLESHOOTING

## 1. Failure to fire

If, while firing, the trigger is pulled and the firearm does not immediately fire:

### **CEASE FIRING IMMEDIATELY!**

- Keep the firearm pointed in a SAFE direction in the event a “hang-fire” has occurred. A hang-fire occurs when there is a delay in a cartridge’s ignition.
- With the firearm pointed in a SAFE direction, wait one (1) full minute.
- After one (1) full minute has elapsed, completely unload the firearm by following the UNLOADING instructions in this manual. (See page 25.)
- Carefully inspect your ammunition.
- Immediately consult qualified personnel such as a gunsmith if the firing pin indent on a fired cartridge’s rim is light or does not exist.

**WARNING:** Never attempt to fire ammunition that did not fire the first time.

## 2. Barrel Obstruction

- Using the disassembly instructions in the beginning of this manual under Obstruction Check, field strip the firearm and check to be sure there are no obstructions in the barrel. If a barrel obstruction is detected, qualified personnel such as a gunsmith must remove the obstruction and inspect the firearm before it can be fired.

**WARNING:** If another cartridge is fired into an obstructed barrel, a catastrophic failure can result.



### 3. Irregular or unusual sound during firing

If, while firing, you hear a change in the sound a fired cartridge makes or feel a change in the amount of recoil of a fired cartridge or detect any other irregularity:

#### **CEASE FIRING IMMEDIATELY!**

- Keep the firearm pointed in a SAFE direction. A “squib load” may have occurred. A “squib” occurs when a cartridge fires but has insufficient force to drive the bullet out of the barrel. This can result in a dangerous barrel obstruction.

**WARNING:** If another cartridge is fired into an obstructed barrel, a catastrophic failure can result.

- With the gun pointed in a SAFE DIRECTION, COMPLETELY UNLOAD the firearm by following the unloading instructions. (See page 25.)
- Using the disassembly instructions check to be sure there are no obstructions in the barrel. If a barrel obstruction is detected, qualified personnel, such as a gunsmith, must remove the obstruction and inspect the firearm before it can be fired.

## SETTINGS

**WARNING:** Always be certain that the firearm is unloaded and the empty chamber indicator installed. Please refer to the instructions given in the “Load Check” portion of this manual. (See page 17.)

### **SETTING THE REAR SIGHT**

The aiming device consists of a five position rear sight and a front sight adjustable both in elevation and for windage. Both the rear sight and the front sight are flip-up type.

The five positions are corresponding to the following distances and diopter diameters:

- Position “1” firing distance 10 meters diameter of diopter 2.8 millimeters.
- Position “2” firing distance 10 meters diameter of diopter 3.5 millimeters.
- Position “3” firing distance 25 meters diameter of diopter 2.8 millimeters.
- Position “4” firing distance 25 meters diameter of diopter 3.5 millimeters.
- Position “6” firing distance 50 meters diameter of diopter 2.8 millimeters.

## SETTING THE FRONT SIGHT POST

- The Front Sight can be adjusted for both windage and elevation.
- The windage is adjusted by the windage screw on the right side of the front sight post. Use the supplied tool or a standard flat screwdriver to adjust the windage (**Fig. 16**).
- By turning the windage screw clockwise the point of impact is adjusted to the left. Turning counter-clockwise the point of impact is adjusted to the right.
- The elevation is adjusted by turning the Front Sight Post itself. It is also click-adjustable. Use the supplied tool to adjust the elevation (**Fig. 17**).
- By turning the post clockwise the point of impact moves down, by turning it counter-clockwise it moves up. That means if your firearm shoots too high you have to turn the post counter-clockwise. In case the firearm shoots too low, you need to turn it clockwise.

## SETTING THE RETRACTABLE STOCK

The retractable stock can be folded flush with the right side of the gun. It is telescopic and adjustable in four positions. The stock is fastened with a hinge on the right side of the stock carrier and with a corresponding hinge on the right side of the upper receiver (**Fig. 9**).



The stock carrier pin connects the receiver with the stock carrier and allows the operator to rotate the stock 180°. Pulling the buttstock latch allows the buttstock to be adjusted to various lengths (**Fig.18 and 19**).

## **MOUNTING AN OPTICAL SIGHT**

**WARNING:** Always be certain that the firearm is unloaded and the chamber loaded indicator installed.

Please refer to the instructions given in the "Load Check" portion of this manual.

The gun is equipped with Picatinny rails following MIL-STD 1913.

These rails allow the installation of various accessories, like aiming devices, laser sights, lights, bipods and others. The upper and lower rails are numbered from rear to the front. If accessories are removed, the numbering system ensures that they can be remounted in the same position, which reduces the need for resighting of aiming devices.

To mount an aiming device or optical sight, first fold down the flip-up rear and front sights (**Fig. 20 and 21**).

Next, follow the accessory manufacturer's instructions to attach the accessory to the rail.

## **REVERSING THE BOLT HANDLE**

**WARNING:** Always be certain that the firearm is unloaded and the empty chamber indicator installed.

Please refer to the instructions given in the "Load Check" portion of this manual.

The bolt handle can be attached on either side of the bolt.

To move the bolt handle from one side to the other there must be no tension on the mainspring because a locking mechanism will hold the handle in position.



To take tension off of the main spring disassemble the gun (as explained in the previous section) to the point where the guide rod block comes out of the receiver.

Then extract the bolt handle from the bolt and attach it on the other side (**Fig. 22 and 23**).

After reassembly, the locking mechanism will again hold the bolt handle in position.

## MAINTENANCE

The firearm should be cleaned as soon as possible after firing. Use only high-quality, commercially-available firearm cleaning solvents and cleaning equipment.

**WARNING:** The firearm should not be disassembled for cleaning beyond what is described below. Only qualified personnel (for example, gunsmiths) who are familiar with these firearms should conduct further disassembly.

**WARNING:** Do not attempt to make repairs to any firearm without proper knowledge or training. Do not alter parts or use substitute parts not made by Beretta. Any alterations or adjustments that may be necessary to the operating mechanism should be performed by the Manufacturer or a Beretta authorized service center.

**WARNING:** Excess oil and grease obstructing the bore, even partially, is very dangerous when firing and may cause barrel rupture and serious injury to the shooter and bystanders. Never spray or apply oil to cartridges. Use lubricants properly. You are responsible for the proper care and maintenance of your firearm.

### DISASSEMBLY

**WARNING:** Always be certain that the firearm is unloaded. Please refer to the instructions given in the "Load check" paragraph. (See page 17).



**Notice:** It is advisable to carry out the field stripping and the assembly operations over a table to catch components should they drop.

**Disassemble the firearm as previously described in this manual. (See page 17).**

## **CLEANING**

- Visually inspect to verify that no ammunition remains anywhere in the firearm.
- Remove fouling from the breech, magazine lips, follower, and receiver with a brush and a cloth.
- Clean the barrel with bore solvent and a brush and then dry it with cleaning patches. Always begin at the chamber end.
- Repeat until the barrel is clean.
- Thoroughly clean the bolt assembly area with a brush and cloth to remove powder residue and debris.
- Apply a thin coat of oil to all metal parts.
- Make sure the firing pin assembly is in the correct position.
- Apply 2 drops of gun oil to the main spring.
- Apply 1 drop of gun oil to the extractor.
- Apply 1 drop of gun oil to each end of firing pin assembly.
- Reassemble the firearm and check for proper function.
- Verify the gun is ON SAFE.
- Insert an EMPTY magazine and retract the bolt handle so that the bolt assembly remains in the open position.
- Insert the red tab (Chamber Unloaded Indicator).
- Remove the magazine.
- Pull the bolt handle rearward, then release it to close the bolt assembly.

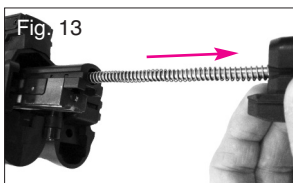
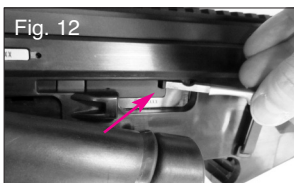
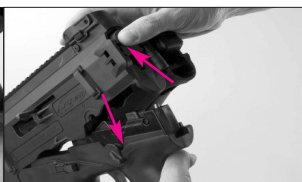
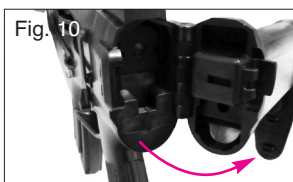
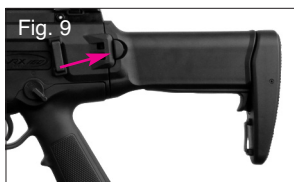
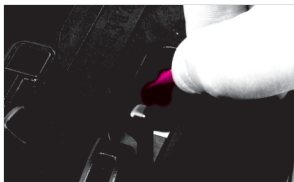
## STORAGE

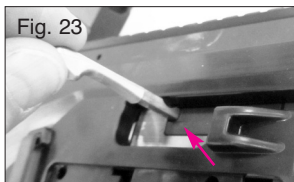
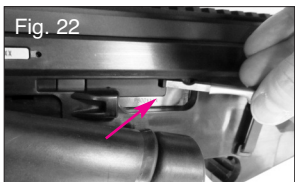
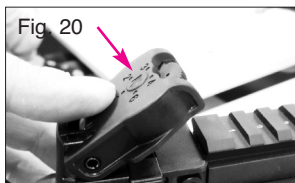
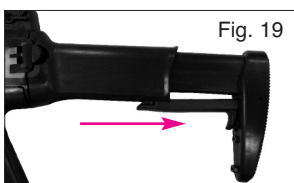
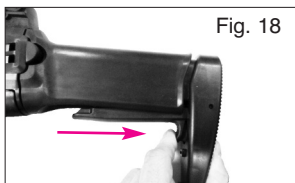
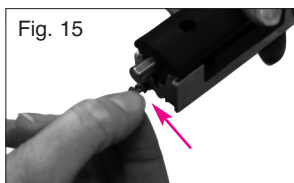
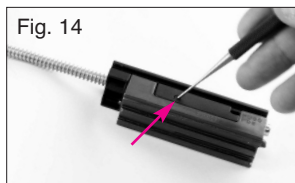
**WARNING:** The firearm should always be stored UNLOADED, with the bolt in the closed position, the safety engaged and the hammer decocked. (See page 18).

**WARNING:** Store firearms and ammunition separately, each in its own locked container, and away from children and unauthorized adults!

**WARNING:** Be certain your firearm is unloaded before shipping or taking it to the dealer.

**CAUTION:** Do not store your firearm in a leather, fabric or canvas holster or case. These materials attract moisture, even though they may appear to be perfectly dry.







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UQAN 2422