BBR 3.10 PISTOL

USER'S MANUAL

A

WARNING: READ THE INSTRUCTIONS AND SAFETY PRECAUTIONS IN THIS MANUAL CAREFULLY BEFORE USING THE FIREARM.



ROCK ISLAND ARMORY

OWNER/USER'S MANUAL BBR 3.10 1911 SUB-COMPACT PISTOL

SAFETY, INSTRUCTION AND PARTS MANUAL

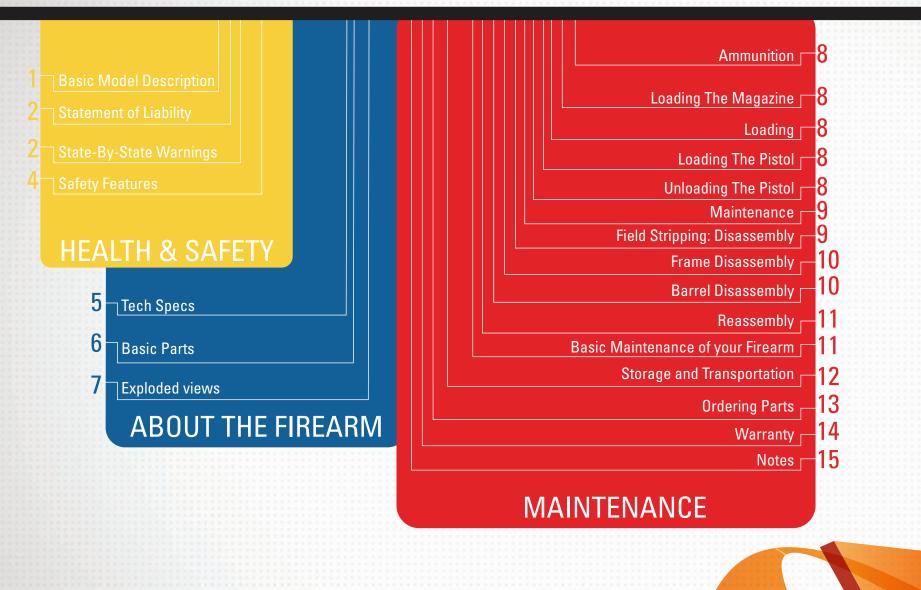


As a responsible owner of this firearm, you must read the instructions and warnings in this manual carefully. Before using this firearm, make sure you understand thoroughly the contents of this manual.

This manual must always be in the firearm's carrying case whenever the owner/user brings it or when it transfers ownership. A copy of this manual is available upon request from:

ARMSCOR PRECISION INTERNATIONAL 150 N Smart Way, Pahrump NV 89060 E-mail: support@armscor.com

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01 STATEMENT OF LIABILITY

BASIC MODEL DESCRIPTION

The RIA BBR 3.10 pistol is classified as a firearm or dangerous weapon. It is expressly understood that Armscor Precision International assume no liability for its resale or unsafe handling under local laws and regulations, or for physical injury or property damage resulting from either intentional or accidental discharge, or for the function of the pistol subjected to influences beyond the manufacturer's control.

Armscor Precision International honor no claims which may result from careless handling, unauthorized adjustments, defective or improper ammunition, corrosion or neglect.

02 SAFETY PRECAUTIONS

STATEMENT OF LIABILITY

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□ State-By-State Warnings -



CALIFORNIA STATE WARNING

CHILDREN ARE ATTRACTED TO AND CAN OPERATE FIREARMS THAT CAN CAUSE SEVERE INJURIES OR DEATH. PREVENT CHILD ACCESS BY ALWAYS KEEPING FIREARMS LOCKED AWAY AND UNLOADED WHEN NOT IN USE. IF YOU KEEP A LOADED FIREARM WHERE A CHILD OBTAINS AND IMPROPERLY USES IT, YOU MAY BE FINED OR SENT TO PRISON. IT IS UNLAWFUL TO USE A MAGAZINE WITH A CAPACITY OVER 10 ROUNDS.



MASSACHUSETTS STATE WARNING

IT IS UNLAWFUL TO CARRY ANY MAGAZINE OR BELT WHICH HOLDS MORE THAN TEN ROUNDS, UNLESS AUTHORITY IS GRANTED BY THE BOSTON POLICE COMMISSIONER. IT IS UNLAWFUL TO STORE OR KEEP A FIREARM, RIFLE, SHOTGUN OR MACHINE GUN IN ANY PLACE UNLESS THAT WEAPON IS EQUIPPED WITH A TAMPER RESISTANT SAFETY DEVICE OR IS STORED OR KEPT IN A SECURELY LOCKED CONTAINER.



NEW YORK STATE WARNING

IT IS UNLAWFUL TO CARRY ANY MAGAZINE OR BELT WHICH HOLDS MORE THAN SEVEN ROUNDS, UNLESS AUTHORITY IS GRANTED BY THE STATE OF NEW YORK. THE USE OF A LOCKING DEVICE OR SAFETY LOCK IS ONLY ONE ASPECT OF RESPONSIBLE FIREARMS STORAGE FOR INCREASED SAFETY, FIREARMS SHOULD BE STORED UNLOADED AND LOCKED IN A LOCATION THAT IS BOTH SEPARED FROM THEIR AMMUNITION AND INACCESSIBLE TO CHILDREN AND OTHER UNAUTHORIZED PERSONS.

03 SAFETY PRECAUTIONS

Safety must be the first and constant consideration of every person who handles firearms and ammunition. The person with a firearm in his possession has an important responsibility. He/she must know how to use his/her firearm safely:

- 1. Always keep the firearm holstered except when drawn for a definite purpose.
- 2. Always check the firearm for live ammunition when picked up, drawn from the holster, handed to, or received from another person.
- 3. Never point the firearm at anything you do not intend to shoot.
- 4. Never cock the hammer of the firearm unless you are ready to immediately shoot it. Do not even insert your finger in the trigger guard until you are ready to shoot.
- 5. Avoid dry firing even with dummy cartridges, unless the same is performed on a regular target range or at a known inanimate target.
- 6. When holding the firearm that is ready to fire, be absolutely certain that it is not pointed at any part of your body or at any person within your immediate vicinity.
- 7. Beware of obstructions in barrel. If, when firing, a weak or peculiar report is heard, cease firing and inspect the barrel for an obstruction. Remove magazine then check to insure there is no obstruction in barrel or chamber.
- 8. When a misfire or a "dud" is experienced keep the pistol pointed at the target for at least ten seconds before inspecting the firearm: a delayed firing may occur.

- 9. Remove magazine and pull slide back and engage to slide lock physically and visually confirmed chamber is empty.
- 10. When possible, wear shooting glasses and hearing protectors when firing.
- 11. Do not shoot at a hard surface or water for the bullet can glance off and travel in unpredictable directions with considerable velocity.
- 12. Avoid drinking alcoholic beverages when handling the firearm.

WARNING:

DO NOT ATTEMPT TO USE ANY FIREARM WITHOUT HAVING A COMPLETE UNDERSTANDING OF ITS PARTICULAR CHARACTERISTICS AND SAFE USE.

WARNING:

YOU SHOULD NEVER DEPEND ON A SAFETY MECHANISM OR ANY OTHER MECHANICAL DEVICE TO JUSTIFY CARELESS AND IMPROPER HANDLING.

WARNING:

THIS FIREARM WAS MANUFACTURED TO PERFORM PROPERLY WITH THE ORIGINAL PARTS AS DESIGNED. PLEASE MAKE SURE ANY PARTS YOU BUY ARE INSTALLED CORRECTLY AND THAT NEITHER REPLACEMENTS NOR ORIGINALS ARE ALTERED OR CHANGED. PUTTING A FIREARM TOGETHER INCORRECTLY OR WITH MODIFIED PARTS CAN RESULT IN DAMAGED FIREARM, DANGER, AND INJURY OR DEATH. ANY MODIFICATIONS TO FIREARM WILL VOID FACTORY WARRANTY.

04 SAFETY PRECAUTIONS

CARRYING A LOADED 1911 PISTOL

Handling, carrying or otherwise transporting a 1911 pistol with an unfired cartridge in the chamber ALWAYS INCREASES THE RISK of an unintended firing of the cartridge, with the resulting potential for personal INJURY and DEATH. If you choose to assume that increased risk, and are not intending to fire the pistol immediately, always engage the manual thumb safety which blocks both the fully cocked hammer and the sear, a condition known as "cocked and locked." Do not, under any circumstances, carry or transport a 1911 pistol with an unfired cartridge in the chamber and the hammer set in the half-cock notch or lowered to the full forward position. Both of those hammer positions are so unsafe when carrying a 1911 pistol with a loaded chamber that they must never be used. Even the act of manually lowering the hammer into either of those positions with a loaded chamber is so unsafe that it must never be done.

SAFETY FEATURES



TRIGGER GUARD - this is

the metal loop around the trigger intended to deflect unwanted contact with the trigger and thereby help prevent unintended gun firing.



GRIP SAFETY - this safety

blocks rearward movement of the trigger in order to prevent the gun firing unless the grip safety is first disengaged by the firm grasp of the shooting hand in normal shooting position, thereby allowing complete rearward trigger movement.



THUMB SAFETY - this is

the manual safety located at the upper rear of the grip frame so the thumb of the shooting hand can be used to easily engage or disengage it, which can only happen when the hammer is fully cocked. When up and engaged, it blocks both the sear and hammer to prevent the gun firing. When engaged, this safety also blocks movement of the slide. The "cocked and locked" carry condition is achieved when the thumb safety is engaged.



HALF-COCK NOTCH - the

half-cock notch in the hammer (often misleadingly called a safety notch) is intended to stop the hammer from reaching the firing pin in the unlikely event the full-cock notch fails to hold the hammer back. Should the hammer fall to the half-cock notch, the sear is then captured by the half-cock notch so that the sear can no longer be moved by the trigger until the malfunction is corrected. The half-cock notch IS NOT A SAFETY and must never be used as an alternative to engaging the thumb safety ("cocked and locked") when carrying the gun fully loaded.

INERTIA FIRING PIN - the

firing pin, designed to be shorter than its housing, is held to the rear by a spring and is intended to protrude to hit a cartridge primer only when a sufficient hammer blow overcomes the spring force and the inertia of the firing pin.



DISCONNECTOR - this

device interrupts the activation of the sear by the trigger in order to prevent the sear from releasing the hammer to fire a chambered cartridge until the slide and barrel are locked together and the trigger is released and pulled again.

05 | TECH SPECS

The RIA BBR 3.10 is a sub-compact pistol, a variant of the model 1911A2 pistols, which utilizes a frame with a widened grip to accommodate a double column magazine but a shortened version of the original full size and even smaller than the compact size. This firearm is basically the same in form, parts and function as the US Colt Government Model 1911A1 semi-automatic pistol, designed by John Moses Browning, which is a standard single column magazine-fed pistol.

Model	51577
Caliber	45ACP
Action	Semi-Auto, Recoil Operated
Magazine Capacity	10 Rounds
Overall Width	1.37 in
Overall Length	6.80 in
Overall Height	4.90 in
Barrel Length	3.10 in
Trigger Pull	4.0 - 6.0 lbs.
Front Sight	Dovetail Mounted Standard Sight
Rear Sight	Adjustable, Mounted in Dovetail Cut
Weight, Empty (Approx.)	2 lbs.
Rifling Twist	Right Hand Twist, 1 Turn in 16 Inches
No. Of Grooves	6
Stock	G10
Finish	Parkerized Parkerized

SPECIAL FEATURES
Full length guide rod double spring
Bull barrel ramped type
Single wide serrations
Combat hammer
MR3 trigger assembly with over travel screw
Hi-sweep beavertail grip safety
Standard safety lock
Checkered polymer mainspring housing

Specification subject to change without prior notice.

06 BASIC PARTS

BBR 3.10 PISTOL BASIC PARTS

PART NAME	PART NUMBER
Barrel	4501RSC
Barrel Link	4503
Barrel Link Pin	4504
Slide	4505SC
Slide Stop	4506
Slide Stop Plunger	4507
Plunger Spring	4508
Firing Pin	4509
Firing Pin Spring	4510XP
Firing Pin Stop	4511
Extractor	4512
Front Sight	4513A
Magazine Release	4524A2
Magazine Release Lock	4525
Magazine Release Spring	4526
Grip Panel Right	4527A2G10SC
Grip Panel Left	4528A2G10SC
Grip Screw	4529A2SH
Trigger Shoe	4530MR3
Trigger Adjusting Shoe	4530SC
Trigger Stirrup	4531A2

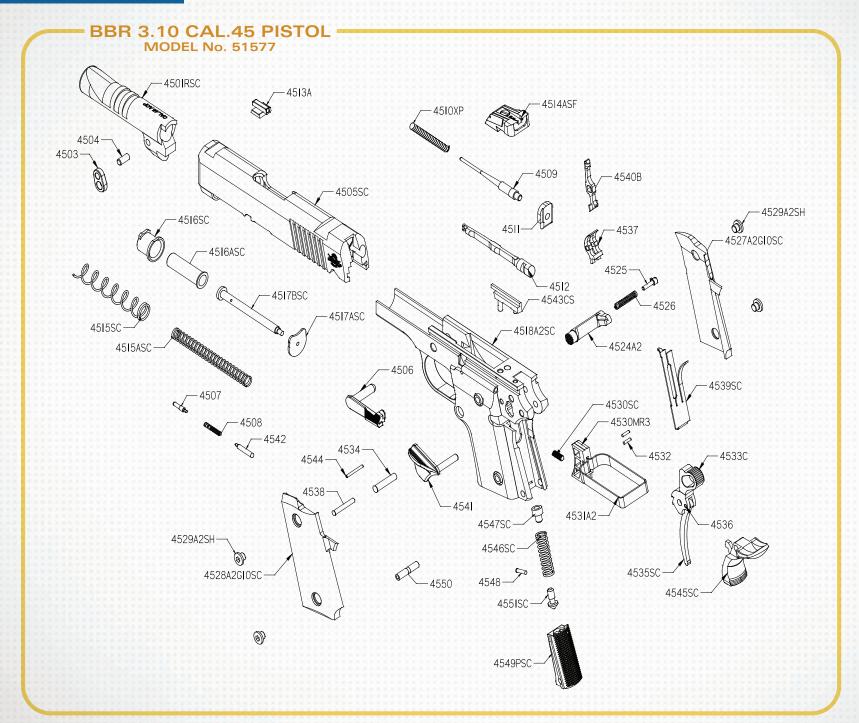
PART NAME	PART NUMBER
Trigger Stirrup Pin	4532
Combat Hammer	4533C
Hammer Pin	4534
Rear Sight (Adjustable Snag-Free)	4514ASF
Recoil Spring (Outer)	4515SC
Recoil Spring (Inner)	4515ASC
Recoil Spring Reverse Plug	4516SC
Recoil Spring Sleeve	4516ASC
Recoil Spring Guide Flange	4517ASC
Recoil Spring Guide Rod	4517BSC
Frame	4518A2SC
Magazine Assembly	4519A2SCA
Hammer Strut	4535SC
Hammer Strut Pin	4536
Sear	4537
Sear Pin (Ambidextrous)	4538
Sear Spring	4539SC
Disconnector	4540B
Safety Lock (Standard)	4541
Safety Lock Plunger	4542
Ejector	4543CS

PART NAME	PART NUMBER
Ejector Pin	4544
Grip Safety	4545SC
Mainspring	4546SC
Mainspring Cap	4547SC
Mainspring Cap Pin	4548
Mainspring Housing	4549PSC
Mainspring Housing Pin	4550
Mainspring Housing Pin Retainer	4551SC

Notes:

- 1. Refer to exploded drawing for visual check of parts.
- 2. When ordering parts, lit is necessary to specify the model and the caliber aside from the part number. Ilt is also necessary to specify THE CUSTOMER, THE TRADE MARK OR BRAND, AND/OR OTHER INFORMATION THAT COULD INDICATE THE EXACT PART BEING REQUIRED.

07 EXPLODED VIEWS



AMMUNITION

The firearm is chambered for cartridges with bullets in the round nose configuration. (NOTE: Use of wadcutter bullets may require extra adjustment of the barrel feed ramp by a competent gunsmith). Use factory loaded cartridges manufactured in accordance with industry standard. Always examine your ammo particularly on and around the primer before loading the magazine. Look for dents, scratches, improper crimping, loose case mouths and other signs of damage.

LOADING THE MAGAZINE

Grasp magazine in one hand and place a round on the magazine follower with the base of shell first and push down. Let the cartridge slide under the feed lips until base of cartridge touches the flat edge of the magazine. Place next round on top of previous round, press down again and into back. Repeat until the magazine is loaded to its rated capacity. Do not exeed capacity.

LOADING



ammunition into your firearm until you are ready to use it. Keep the muzzle pointing in a safe direction, well clear of your body when loading and unloading.

LOADING THE PISTOL



Keep pistol pointed in a safe direction and keep your finger outside the trigger guard when doing this procedure.

When pistol is clear and empty of shells or cartridges, insert the loaded magazine into the magazine well with bullets pointing forward. Push the magazine firmly home until magazine catch is heard to click ensuring it is locked in place.

When you are ready, prepare the gun for firing by grasping the slide at its rear serrated gripping grooves and pulling it rearward to fully cock the hammer.

Releasing the slide affects the feeding of the first cartridge from the magazine into the chamber. YOU ARE NOW LOADED, COCKED AND READY TO FIRE.

Push up the manual thumb safety with your thumb into the SAFE position ("cocked and locked"). When you are ready to shoot, push the manual thumb safety down with your thumb into the FIRE position, make sure your target is in your sights, put your index finger on the trigger and squeeze the trigger. Resist thinking of this as "pulling" the trigger because a quick, jerking pull will likely cause your aim to be disturbed by the excessive finger movement.

After the first round is fired, ease your finger off the trigger to release it, allowing it to re-set for you to fire the next shot. Repeating this sequence will eventually empty the magazine, and when that happens, the slide will remain at the rear of the frame with the slide stop holding it back at the rear. When you stop shooting, treat the pistol as if it is still loaded, point the muzzle in a safe direction, remove your finger from the trigger and keep your finger outside the trigger guard.

UNLOADING THE PISTOL







Place your free hand

under the magazine to prevent it from falling and press the magazine catch to release and eject the magazine. Check the chamber for an un-extracted shell or unfired cartridge and remove such from the chamber. Press the slide stop down to allow the slide to move forward to its normal position. The pistol is now unloaded.

MAINTENANCE

Keeping your firearm clean and properly lubricated will extend its serviceable life. Proper and efficient functioning depends on how you take care of the precision mechanisms of your firearm.

FIELD STRIPPING: DISASSEMBLY

- 1. Press the magazine release and remove the magazine. Pull the slide back and check the chamber to ensure that the pistol is unloaded and safe to handle.
- 2. Pull the slide back until the lug on the slide stop is opposite the disassembly notch and push rounded end of pin of slide stop found at right side of the frame. Push inward and through the frame to disengage slide stop from slide and frame.
- 3. Pull the slide forward on its guide rails in the frame, the barrel and the recoil spring guide assembly will come out with it.
- 4. Push the recoil spring guide forward to compress the recoil springs until the small hole on the recoil spring guide comes out of the recoil spring reverse plug (see barrel disassembly)
- 5. Insert a paper clip, with 5/16 inch of its end bent at a 90° angle (Fig.1), into the hole; trapping the spring assembly (Fig.2).
- 6. At this point, pull the recoil spring assembly rearward and out of the spring tunnel (Fig.3).
- 7. Tilt the barrel link forward to remove the barrel through the front of the slide.
- 8. Remove the firing pin by pressing it with a pin while pushing the firing pin stop downwards at the same time and out of the slide.
- 9. Pry the extractor with a pin by its groove out of the slide.

FRAME DISASSEMBLY

Remove the grip panels by unscrewing the grip screws with a properly-sized screwdriver to avoid damage on screw heads. Cock the hammer. Hold the thumbpiece of the manual thumb safety firmly and pull it out slowly by twisting it back and forth until it is out of the frame.

Carefully lower the hammer by grasping the grip safety and squeezing the trigger while holding on to the hammer to ease it down.

Using the pivot stud of the manual thumb safety, force the hammer pin out of the frame. The hammer and the hammer strut attached to it can now be removed.

Use the end of the hammer strut to push the mainspring housing pin out of the right side of the frame.

Remove the mainspring housing assembly down off its grooves in the frame.

Remove the grip safety and sear spring rearward from the frame.

Use the hammer strut again to push the sear pin from right to left, removing it out of the frame. The sear and disconnector, both mounted on the sear pin can now be removed from the frame.

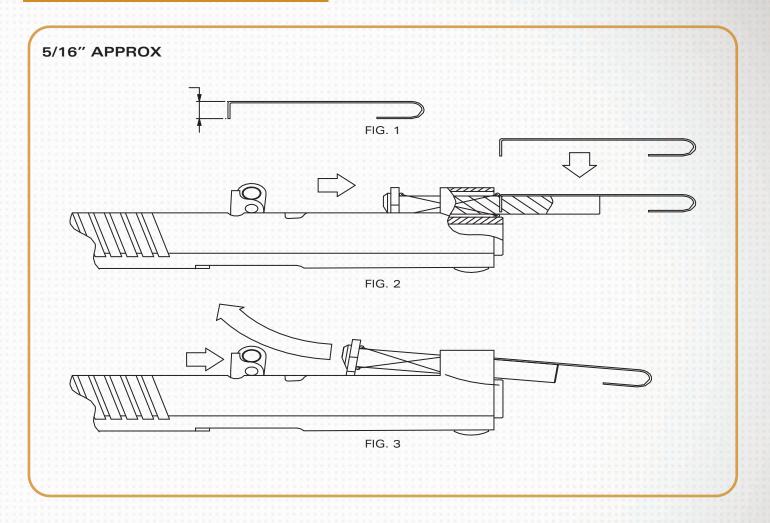
Push the magazine release partially and rotate the magazine release lock one quarter turn from right to left with properly – sized screw driver to remove the magazine release assembly from the frame.

Remove the trigger assembly from its recess cuts in the frame.

Push the combination slide and safety lock plungers, and the spring between them, out to the rear of the plunger tube.

The mainspring housing assembly is dismantled by forcing the mainspring down with a punch and push the mainspring cap pin out of its hole in the mainspring housing. The mainspring cap, mainspring and mainspring housing pin retainer can now be removed from the housing.

BARREL DISASSEMBLY



REASSEMBLY

To reassemble the pistol, the reverse procedure of disassembly is usually followed. Please be guided by the additional instructions for proper assembly:

Mount the barrel and slide assembly to the frame by holding both slide and frame bottom side up. Barrel link must be tilted to the front as far as it can go and make sure the barrel link pin is flush in its seat. You can now slide the frame forward into the slide rails.

Disconnector and sear are to be assembled together and must be in the proper position. This can be done by first mounting the sear over the disconnector with the curved section inward and lugs pointing downward. Mount the parts together into the frame by inserting the rounded head of the disconnector in its hole in the frame so that the flat face of its lower end rests against the trigger stirrup. Partially press the trigger so the holes of the two parts will lineup with that of the frame. Holding them this way, insert the sear pin from the left side of the frame, making sure it passes through both disconnector and sear.

When placing back the sear spring, make sure that the lower end is caught in the slot located at the bottom of the frame handle. The upper end of the left-hand leaf must rest against the sear. While retaining this position, slide the mainspring housing up in its grooves until its end is projecting only about one—eighth of an inch below the edge of the bottom of the frame.

Cock the hammer to replace the manual thumb safety. After replacing the hammer, grip safety and manual thumb safety, cock the hammer. Make sure the hammer strut rests on the mainspring cap. Then, push the mainspring housing up into the frame to its final position and retain the assembly by driving in the mainspring housing pin.

BASIC MAINTENANCE OF YOUR PISTOL

Clean your firearm after firing.

Remove the barrel and slide assembly from the frame.

Use a bore brush dipped in a gun cleaning solvent to scrub the barrel bore and chamber and remove all lead residues.

Clean the slide's breech face area. Use an old toothbrush with solvent to remove residue from powder and primers.

Also clean the insides of the slide and barrel locking lugs, frame and slide rails, extractor and firing pin.

After brushing, clean up with a clean, dry cloth and wipe all parts and surfaces clean of solvent. Immediately apply some gun oil to preserve and lubricate the moving parts. If you are going to store your firearm for an indefinite period of time, apply a thicker film of oil with a lubricant that is acid—free. Coat the external parts and surfaces with anti-rust oil or gun grease to prevent rusting. To use firearm again from this condition, clean thoroughly and wipe dry again. Check all functions before loading. Moisture and humidity are factors that cause rust and corrosion.

Store your firearm in very dry conditions with very low humidity. Avoid leather as this holds moisture. Oil coated plastic bags are better.



THE GUN SHOULD BE STORED IN ROOMS WITH DRY ATMOSPHERE AND WITH THE LEAST HUMIDITY. IT SHOULD NOT BE STORED ENCASED IN LEATHER OR ANYTHING THAT WILL ATTRACT AND HOLD MOISTURE CAUSING THE METAL PARTS TO RUST.



SEE FULL VIDEO TUTORIALS ON OUR
WEBSITE

STORAGE AND TRANSPORTATION

When storing the firearm and ammunition, store in separate locations, store ammo in a cool, dry location.

When storing the gun for a prolonged period of time, it is necessary to oil it heavily with an acid-free lubricant. The external parts must be coated with an anti-rust oil or grease to prevent moisture causing the parts to rust and malfunction. Before usage, the pistol must be cleaned and wiped dry again as discussed previously.

WARNING:

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ORDERING PARTS

Visit RIA website to browse, learn more about and purchase parts and ammunition for all of your Rock Island Armory products.













WARRANTY REGISTRATION

Armscor's warranty covers its firearms and parts. We offer limited lifetime warranty on our products for their intended purpose. As with any product, abuse, gunsmitting by an unqualified person and normal wear and tear are excluded. Additionally, if the firearm was modified and/or repaired by an unqualified gunsmith without permision from Armscor, then the warranty will be void. If warranty work should be required, return the firearm to the address listed below. There is no refund for the shipping cost. Gunsmithing services are available by registered Armscor Gunsmithers. Please email the address below.

To register your firearm, please go to www.rockislandarmory.com/support-center/warranty/ and complete online warranty form. In comments section, write warranty registration and press submit. You can also go to www.rockislandarmory.com and press warranty section at the bottom.

For more information on warranty, visit www.rockislandarmory.com, or email support@armscor.com

Armscor Precision International 150 North Smart Way Pahrump, NV 89060 Email: support@armscor.com

IMPORTANT WARRANTY INFORMATION

Our Rock Island Armory 1911 Pistols are warranted to function only with Factory FMJ Brass Cased Ammo and the Original Factory Magazine. Use of Handloads is not covered in Warranty of Repair for the function of the Firearm.

DUE TO THE FIT AND TIGHTNESS OF FIREARM, RIA RECOMMENDS A BREAK-IN PERIOD OF 500 ROUNDS.

THIS IS HOW YOU VOID YOUR WARRANTY

- * Refinishing your RIA firearm
- * Misuse, Mishandling, Dropping your RIA Firearm
- * Firing Remanufactured or Reloaded Ammunition
- * Not properly reassembling your RIA Firearm resulting in damage, ie reverse plugs!
- * Any addition of after market parts
- * Unauthorized repairs done by any other than Rock Island Armory

LIMITS ON WARRANTY (will not cover)

- * Finish, Holster wear, Scratches, Chemical damage
- * After Market Magazines
- * Damage to Factory Magazines
- * Sights not installed by Rock Island Armory
- * Recoil Springs

WE RESERVE THE RIGHT TO CHARGE FOR LABOR, PARTS AND SHIPPING TO RETURN YOUR RIA FIREARM BACK TO FACTORY SPECIFICATIONS IF IT HAS BEEN ALTERED.

NOTES

NOTES

