

JUST RIGHT CARBINES
SAFETY AND INSTRUCTION MANUAL



PROUDLY MADE IN THE USA!

! Read the instructions and warnings in this manual carefully before using this firearm.

Thank you for your purchase of a JR Carbine.
This manual will help you use your carbine safely.

**DO NOT USE ALUMINUM
or STEEL CASE AMMO
IN YOUR JRC!**

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Read These Important Requirements and Tips Before Handling or Shooting!

WARNING

! Read these instructions and warnings carefully and thoroughly BEFORE removing this firearm from its packaging, and prior to loading and firing. Understand these instructions and warnings before using this firearm. Failure to read these instructions and to follow these warnings may result in serious injury or death to you and others, and damage to property.

! Keep this SAFETY & INSTRUCTION MANUAL with this firearm at all times. Transfer it with this firearm upon change of ownership or when presenting it to another person.

! Thoroughly clean your JR Carbine before shooting it for the first time. In order to ensure maximum function and reliability your Carbine should be cleaned and lubricated every 200 rounds or between shooting sessions – whichever occurs sooner.

! USE MAGAZINES MADE BY THE ORIGINAL EQUIPMENT MANUFACTURER (OEM). This firearm has been designed to use popular OEM pistol magazines. Aftermarket magazines can vary widely from OEM specifications, so they may or may not work well in your Carbine.

! **BUTTSTOCK WARNING!** Before using an aftermarket collapsible/carbine buttstock you MUST transfer the rubber bumper, nylon disc (or one piece bumper), buffer spring, and buffer from the original buttstock assembly. Failure to do so will void the warranty for any resulting damage to your JR Carbine. [Note: If you choose to install a rifle-length, non-collapsible buttstock you MUST make up the difference in spacers to keep the same charge handle travel specs]. See page 22 for a full explanation.

Ammunition Warnings

! Do to the tremendous demand for ammunition the manufacturers are producing as fast as they can. Probably due to the production demands, we have seen a number of light loads, squib loads, and primer only loads. This is a significant safety issue. When a very light, squib, or primer only round is fired, the bullet remains stuck in the barrel. Firing another round into an obstructed barrel may cause the barrel to burst and or the spent round to burst and eject pieces of brass along with flames and gases and could injure or kill!

! The feel and sound of a light, squib, or primer only round is very different from a normal round. If your rifle fires a round that sounds or feels

different from the previous round, do not pull the trigger again! Place the safety selector in the “Safe” position, remove the magazine, and remove the shell from the chamber. Once you are absolutely sure the rifle is unloaded, make sure the barrel is unobstructed either visually or by running a cleaning rod all the way through the barrel. If there is a bullet stuck in the barrel, clear it out using the cleaning rod. If you are unable to remove the stuck bullet, please take your gun to a gunsmith. Under no circumstances should the firearm be fired. **Firing into a plugged barrel will cause property damage, and possibly injury or death. Do not take any chances!**

DO NOT USE LEAD ROUNDS.

! Only use jacketed rounds. Lead will accumulate in the barrel, slow and / or restrict the bullet and change the timing of the gun. This will result in back pressure prematurely opening the bolt before the pressure has dropped to safe levels. This CAN result in damage to the firearm and could be dangerous to the user or others! Any damage incurred will not be covered under warranty and liability for injury will fall to the user for failing to heed this warning!

! The JRC is a direct blowback weapon with NO LOCKUP. The mass of the buffer and bolt along with the spring pressure is what keeps the bolt closed during initial firing. If you exceed these specs, you will damage the firearm and/or injure yourself or others.

Caliber	min gr	max gr	Approx FPS
9mm	115 gr	147 gr	1150
40 S&W	165 gr	180 gr	1150
45 ACP	185 gr	230 gr	925
10mm**	180 gr	180 gr	1200

*** We recommend only 180 gr rounds for the 10mm*

This table is just a rough guideline to give you a starting point of what the gun was tested with during development. Ammo varies by manufacturer and by lot number.

! **Be safe and smart!** If you are in doubt, call the factory. Any resulting damage from not following these guidelines will not be covered under warranty. Any injury or liability from failing to follow these guidelines will fall to the end user.

Lead Exposure Warning

! WARNING: POTENTIAL LEAD EXPOSURE. 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 your hands thoroughly after exposure. Shooting or cleaning guns may expose you to lead.

Disclaimer Of Liability

Just Right Carbines shall not be responsible for product malfunctioning or for physical injury, death or damage to property resulting from either intentional or accidental discharge of this firearm, its criminal or negligent use, improper or careless handling, unauthorized modifications or alterations, use of defective or improper or hand-loaded or reloaded ammunition, or from its use for purposes or subjection to treatment for which it was not designed. Just Right Carbines will not honor claims made by subsequent owners of the firearm.

Safety Disclaimer

Safety Is Your Number One Responsibility!!!!

Your first concern as a firearm owner should be safety, regardless of whether you are in the field, at home, or at the range. Apply the safety rules listed below and throughout this manual in every situation, with any kind of firearm. If you are unsure about any operational aspects of your firearm, please contact Just Right Carbines (JRC) at (585) 396-1551 before proceeding with its operation.

! **WARNING:** You must follow all of these safety rules to ensure the safe use of your firearm. If you fail to follow the instructions and warnings in this manual you could cause serious personal injury or death to yourself or others, as well as damage to property.

! You are the most important safety device when it comes to the use of your firearm and neither Just Right Carbines nor the distributors, wholesalers, or dealers of this firearm will be responsible for any personal injury, death or property damage that results from: (1) the criminal or negligent use of this firearm; (2) a disregard of these safety instructions and warnings; (3) improper or careless handling of this firearm; (4) the use of non-standard, defective, improper or reloaded ammunition; or (5) improper or negligent modifications or repairs to this firearm.

! **Use your firearm only for legal purposes.** Legal purposes include target shooting, hunting and lawfully resisting deadly criminal force. You **MUST** ensure that you are in compliance with all applicable laws and ordinances regarding the use of your firearm.

! Never use alcohol or drugs before or while shooting. Do not use your firearm if you are on any medication that impairs, even slightly, your mental or physical ability.

Safe Handling

! Before handling any firearm, understand its operation. Not all firearms are the same. Familiarize yourself with the mechanical features of any firearm you intend to use. If you feel uncertain about any operational aspects of your firearm, please contact Just Right Carbines at (585) 396-1551 before proceeding with its operation.

! Never rely on mechanical safety features alone to ensure safety. The only sure way to ensure the safe use of your firearm is to **ALWAYS** practice

safe firearm-handling habits. This is your responsibility.

! Always treat every firearm as if it is loaded and will fire. Always personally check for yourself to determine that the firearm is unloaded; do NOT take anyone's word on it. Always lock the bolt of your firearm to the rear and look through the open ejection port to examine the chamber and visually check that it is unloaded before passing it to another person. You must follow this procedure every time a firearm leaves your hand, is cleaned, handed to you or another person, transported or stored.

! If you violate the rules of safe firearm handling or fail to use common sense you WILL eventually cause an accident. Firearm safety training is available. Contact your firearms dealer, law enforcement agency, local sportsman's club, etc. for availability.

Safe Carry And Transport

! **WARNING:** Do not carry this carbine with the bolt open and a loaded magazine in the carbine. An accidental discharge may result if the bolt closes and the safety lever is not in the "safe" position, leading to death or injury to the shooter or bystanders and damage to property.

! **WARNING:** Never strike or drop the firearm. Doing so may cause a round to chamber.

! **WARNING:** This carbine will still fire with the magazine removed if a round remains in the chamber. When removing the magazine you must also properly clear the chamber and visually inspect it to ensure that it is clear of any rounds.

! **Never** cross obstacles such as fences or streams with a loaded firearm. Always make certain your firearm is unloaded before crossing a fence, climbing a tree, jumping a ditch or negotiating other obstacles.

! **Never** transport a loaded firearm. When transporting your firearm, be sure it is unloaded and locked. Safe and secure transportation of your firearm is your responsibility.

Safe Storage

! **WARNING:** Firearms are dangerous when used and stored improperly. They pose a risk of serious or fatal injuries. Firearms can be especially dangerous to children when they are stored in an irresponsible and unsafe manner.

! **Always** Safely Store And Secure Your Firearm. You must keep your firearm locked and unloaded in a secure place for your safety and the safety

of others. You should store ammunition in a separate, secure location when it is not in use. If you fail to do so, you or others may suffer serious injury or death as a result.

! **Always** secure your firearm in a manner that will prevent unauthorized access. Keep your firearm unloaded and locked when not in use. Your safety and the safety of others require that you always secure and store your firearm in a manner that will prevent unauthorized access. Never leave a firearm unattended unless it is locked, unloaded and secured. You must always secure your firearm and ammunition separately so that they are not accessible to children and/or other unauthorized persons.

! **Never** assume that a “hiding” place is a secure storage method. Others may be aware of your storage location or come upon it by chance. It is your personal responsibility to use common sense when storing your firearm and ammunition and to always make sure they are not accessible to children or other unauthorized persons.

! **Never** assume that the use of a lock is sufficient to safely secure your firearm. You must always evaluate your personal situation and employ the security systems that meet your needs and prevent children and unauthorized users from gaining access to your firearm. Never leave the key to a firearm lock with the stored firearm.

! **ALWAYS** follow the law! Many jurisdictions have laws that make it a crime to keep a firearm unlocked and in an area accessible to children or others. Keeping a firearm locked and unloaded when not in use is not only common sense safety practice... IT IS THE LAW. You must be familiar with all local, state, and federal laws regarding the safe storage and transportation of your firearm. Your local police department or firearm shop can furnish you with available information on storing and/or transporting a firearm safely and legally.

Locking Your Firearm

! **WARNING:** Never lock a loaded firearm and never load a locked firearm!

! **Trigger Lock.** A trigger lock, when properly used, can be an effective tool in preventing unauthorized access to your firearm. There are effective trigger locks and safe storage containers available in the marketplace, which may also be appropriate for your particular needs. Consult your local firearm shop, hardware store, or local police department for guidance on the variety of other safe storage devices or practices which may be appropriate for your particular needs. Never assume that the use of a lock alone is sufficient to safely secure your firearm. It is your personal responsibility

to select and use whatever measures or practices that will enable you to be absolutely certain that your firearm is secure at all times.

! **Never** keep ammunition in the same location as the firearm. Store each in a separate and secure place.

Use Correct Ammunition

! **WARNING: Never use ammunition not specifically designated for use in your firearm. Failure to use the correct type or caliber of ammunition may cause the firearm to jam, fail to fire, or even generate excessive pressure which can damage or even rupture your firearm, causing personal injury, death or property damage.**

A firearm and ammunition are a system and must work together. There are different types of ammunition for different types of firearms. Your firearm has been designed for ammunition of a specific type and a specific gauge or caliber. It is important to select the proper ammunition for your firearm. Different combinations of bullet velocity, bullet weight and firearm weight can have major impact on felt recoil; high felt recoil could be uncomfortable to some shooters.

Locate the cartridge designation marked on your firearm. This information indicates the correct ammunition that must be used in this firearm. You are responsible for selecting ammunition that meets industry standards and is appropriate in type and caliber for this firearm.

Always use the correct ammunition for your particular firearm as indicated by the marking on the firearm. Never use non-standard, reloaded, or “hand loaded” ammunition that has not been subjected to internal ballistic pressure testing.

Never use a cartridge not specifically designated for use in your firearm. The wrong type of ammunition may exceed the capability of your firearm and may damage or even rupture your firearm.

Never mix ammunition. In some cases, a round of ammunition not specified on your firearm may fit into the chamber. Firing ammunition not specified on your firearm may cause it to rupture and cause serious injury or death to you or others.

Use High Quality Ammunition

Use only high quality American ammunition. Your JR Carbine is a precision firearm designed to shoot a wide range of high-quality U.S.-manufactured ammunition. It will also shoot a wide range of foreign manufactured ammunition, but such ammunition can vary widely in quality and consistency. You can expect that your shooting experiences may likewise vary when using such

ammunition. Even American ammunition will vary in the tolerances to which it is manufactured, and some brands and/or types of ammunition will work better in your Carbine than others. Experiment with different brands of ammunition available to you to find those that perform best in your Carbine. Using re-loaded or commercially re-manufactured ammunition will void the warranty of this firearm.

! **WARNING: Never use non-standard, reloaded or hand-loaded ammunition** that has not been subjected to internal ballistic pressure testing. Reloaded or handloaded ammunition may have many manufacturing and quality variables (such as the type and amount of gun powder). Any ammunition that is improperly manufactured, even in the slightest degree, may fail to fire or may generate excessive internal pressures which can damage or even rupture the firearm, causing personal injury or death to the shooter or those in the immediate vicinity.

! **Always inspect your ammunition before using it**. Never use dirty, corroded or damaged ammunition which can lead to a burst cartridge which may cause damage to the firearm and personal injury or death.

! **Corrosive Primer Caution:** Use of ammunition manufactured with corrosive primers in this firearm will cause oxidation to develop on any exposed metal parts of the firearm. To prevent such oxidation, EVERY time ammunition with corrosive primers is used; the residue from the corrosive primers must be completely removed from all exposed metal parts. Conventional oil or solvent-based firearm cleaners WILL NOT dissolve the residue from corrosive primers. Residue from corrosive primers MUST be completely dissolved with a water-based cleaner. After the corrosive residue has been completely dissolved from all exposed metal parts, remove any excess water-based cleaner from the firearm.

Check with the ammunition manufacturer or a qualified gunsmith if you are unsure whether the particular ammunition you plan to use in this firearm has been manufactured with corrosive primers. If in doubt, follow all the instructions above to prevent oxidation caused by ammunition manufactured with corrosive primers. SAAMI member ammunition manufacturers do not use corrosive primers.

Aluminum/Steel Ammunition Warning: **Do Not Use Aluminum / Steel-Cased Ammunition** **in Your JR Carbine**

Aluminum ammunition cases may crack, split, or come apart when fired in a direct-blowback firearm like the JR Carbine. Steel ammunition cases may damage your firearm or cause excessive wear. If you shoot aluminum or steel-cased ammunition in your JR Carbine your firearm may function improperly and may cause serious injury or death and damage to property as

a result. Using aluminum or steel-cased ammunition voids the manufacturer's warranty.

Shooting

! **Always be sure of your target and what is beyond it.**

Always be sure of where the bullet will strike and shoot only where there is a safe backstop behind your target that will stop your bullet. Be sure that your backstop is free of obstructions, water or other surfaces that can cause ricochets. Remember: bullets can glance off many surfaces like rocks or the surface of water and travel in unpredictable directions with considerable velocity. Do not fire randomly into the sky.

! **Always keep your firearm pointed in a safe direction.**

Never point a firearm at anything you do not intend to shoot whether or not it is loaded. This is particularly important when loading, unloading, or field stripping a firearm

! **Never place your finger inside the trigger guard or on the trigger unless you intend to fire.** Ensure that no other objects touch the trigger.

! **Beware of barrel obstructions.** Be sure the barrel is clear of obstructions before shooting. Mud, water, snow or other objects may inadvertently lodge in the barrel bore. A small obstruction can cause a dangerous increase in pressure and may damage your firearm and cause injury to yourself and others.

! **Always wear eye and ear protectors that are specified for use with firearms.** Every time you discharge your firearm. Make sure others in the vicinity of where you will be shooting do so as well.

Ammunition Failures

! If your firearm fails to fire when the hammer falls (misfires), keep the firearm pointed in a safe direction, remove your finger from the trigger, and wait 20 - 25 seconds. If your firearm still has not fired, remove the magazine and remove (eject) the cartridge from the chamber and dispose of properly.

! If you hear an unusual sound or feel an unusual recoil on firing, stop firing, wait 20 - 25 seconds, remove the magazine, extract any cartridge from the chamber, lock the bolt to the rear, put the safety selector on safe, examine the chamber to ensure it is empty, and examine the bore for obstructions.

! If you see an obstruction, return your firearm to the Manufacturer or take

it to a qualified gunsmith. **Never** fire a firearm with an obstructed barrel.

! If you are unsure or have any concerns, contact your retailer or Just Right Carbines for advice.

Maintenance

! Never disassemble your firearm beyond the field stripping procedure outlined in this manual. Improper disassembly or reassembly of your firearm may be dangerous and can lead to serious injury or death.

! **WARNING:** Before you begin disassembly of your carbine, you must first inspect it to make sure there is not a magazine in the magazine well, the chamber is empty, and the safety selector is on safe.

! Never perform or allow any alteration or replacement of parts in your firearm unless performed by a qualified gunsmith using genuine JR Carbine parts. If you do otherwise, your firearm may function improperly and may cause serious injury or death and damage to property as a result.

! Never manipulate, adjust or change any of the internal components of your firearm unless specifically instructed to do so in this manual. Improper manipulation of any components of this firearm beyond the instructions in this manual may affect the safety and reliability of your firearm and may cause serious injury or death.

Be sure all accessories, such as holsters, grips, slings, scopes and other accessories are compatible with your firearm and that the accessories do not interfere with safe operation. You **MUST** understand and follow all of the instructions in this manual, as well as those that may be supplied with your ammunition and any accessory.

Test Fired Before Shipment

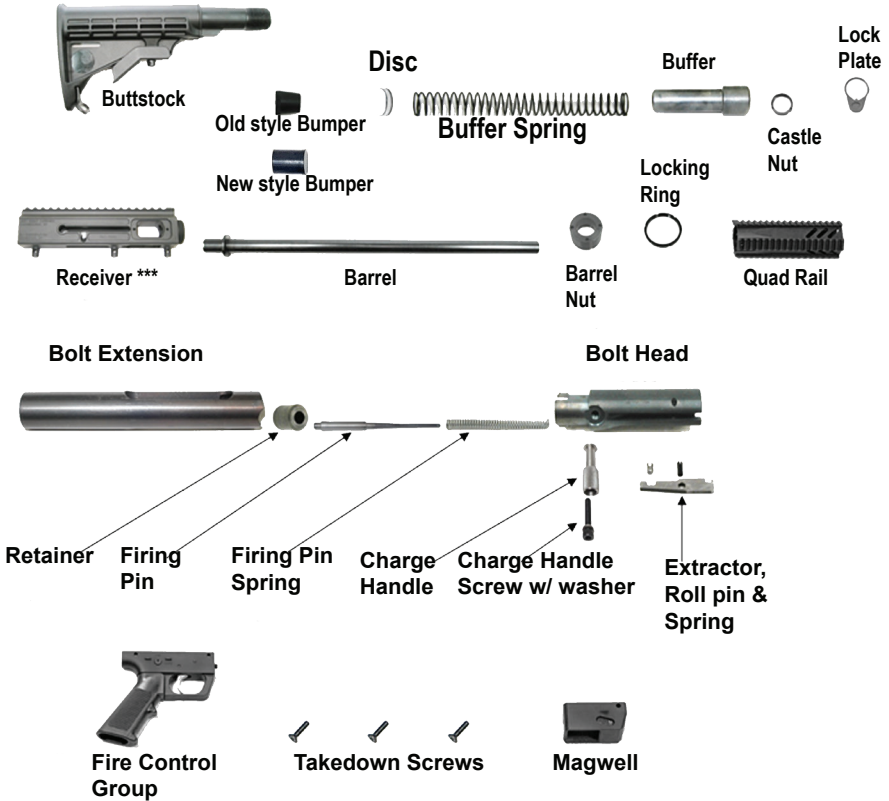
Your JR Carbine was test fired at the factory before leaving. You will find some residue in the chamber area so do not be alarmed. Test firing allows us to catch any problems before you receive your weapon. You can rest assured that we have confirmed proper assembly and function before it ever leaves our facility.

Features Of The JR Carbine

Weight:	6.5 – 7.5 lbs. (depending on config)
Length:	30.125 – 33.5 inches with std.17" barrel
Caliber:	Multi-caliber, interchangeable, 9mm Luger, .45 ACP, 10mm
Operation:	Semi automatic Direct blowback
Lubrication:	Very little required.
Feeding:	Magazine fed
Finish:	Hard Coat Anodized on Aluminum Black Oxide or Parkerization on Steel; Cerakote or Hydro dip camo available
Patents:	U.S. 8,448,363 B2; other patents pending

Components

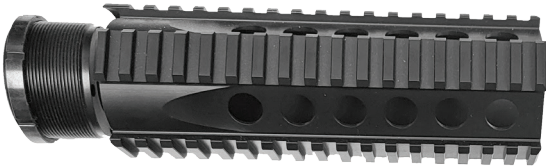
JRC Parts List



*** Shown without Ejector Plate installed

Note: Your forend/handguard and buffer may vary in appearance depending on your individual configuration.

Handguard Options



7.5" Quad Rail w/
barrel nut & locking ring



9" Takedown tube



13" M-LOK Rail & barrel nut

Buffers

*Below are some of the buffers you could see in your JRC.
Refer to page 22 for a further discussion on spacing requirements and applications*



3.75"
~10.5 oz



4.75"
~13 oz



4.75"
~15 oz



5.25"
~16.8 oz

Description

The JR Carbine is a shoulder-fired, magazine-fed, centerfire pistol cartridge, blow-back operated long gun. It is intended to be fired from a two handed position with the Carbine braced against the shoulder with the buttstock, supported by the non-trigger hand under the forend, and held by the pistol grip with the trigger hand. (See fig 1.)



Fig. 1

Sub-Assemblies

The JR Carbine is made up of the receiver assembly, the firing assembly, the magazine well, the buttstock assembly, the forend, and the barrel assembly. (See fig 2.)

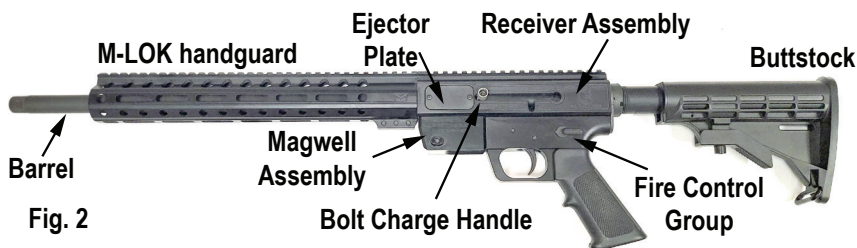


Fig. 2

! **WARNING:** Prior to handling your JR Carbine ensure that the safety selector is placed on the “safe” position on the fire control group. The JR Carbine can be manually cycled by the use of the bolt charge handle. (See fig 2.) The bolt may be locked to the rear by drawing the handle rearward and rotating it downward into the bolt lockdown notch. (See fig 3 – next page.) The JR Carbine can only be placed on “SAFE” when the hammer is cocked or the bolt is locked to the rear. This is by design of the AR fire control group that is used.

Unloading

Unloading is accomplished by switching the safety lever from fire to safe, pulling the bolt handle rearward and locking it into the bolt catch. Pressing the magazine catch button (see fig 3) will allow the magazine to be removed. Be careful to ensure that the chamber is empty.



With the bolt locked to the rear look through the open ejection port to examine the chamber of the barrel to be sure no cartridges are visible and ensure that it is not loaded.

Loading

! WARNING: Never Attempt To Load This Firearm Without First Checking The Chamber.

! WARNING: Always Load A Round Into The Chamber By Feeding It From The Magazine. Never Attempt To Load The Firearm By Inserting A Round Into The Open Ejection Port. Failure To Follow This Warning Can Result In Severe Injury Or Death To You Or Others. You may load the JR Carbine either with the bolt forward and closed, or with it locked to the rear and open.

Loading with the bolt locked open (Preferred). In the event that you chose to load your Carbine with the bolt locked to the rear, **FIRST** ensure that the safety is switched to the **SAFE** position. Then insert a loaded magazine up into the magazine well and check to see that it is securely held in place by

the magazine catch by pulling down on the magazine as described above. The Carbine may now be placed into battery and fired by closing the bolt and switching the safety from SAFE to FIRE.

Loading with the bolt closed. When loading with the bolt closed, insert a loaded magazine up into the magazine well until it clicks. Check to see that it is securely held in place by the magazine catch by pulling down on the magazine; it should stay tightly in place. Pull the bolt handle completely to the rear and then allow the bolt to travel forward and chamber a cartridge. Place the safety selector switch in the SAFE position until you are ready to shoot.

Note: Due to variations in magazine manufacture you may find it difficult to insert some fully loaded magazines with the bolt CLOSED. This is a particular issue with new magazines that have not yet been “broken in”. If this occurs, load your JR Carbine from the open-bolt position.

Magazine Well & Firing Group Disassembly

Remove the magazine well by unscrewing the three take-down screws from the right side as shown in fig 4 and then detaching the magazine well and firing assembly together from the receiver. You may now pull the magazine well forward off of the firing assembly and exchange it if desired.

Buttstock Disassembly

ONLY AFTER you have placed the safety selector on SAFE, removed the magazine from the magazine well; checked to ensure that the chamber is empty, and placed the bolt in the forward position on an empty chamber, you may remove the buttstock assembly. Ensure that the receiver is held securely and the buttstock is in the extended and locked position (See fig 4.). Use a castle nut wrench to loosen the castle nut (turning it counter clock-wise when viewed from the rear), turning it until it reaches the rear portion of the threads on the tube. After the castle nut is loose from the receiver plate, carefully pull the receiver plate backward off of the receiver, completely disengaging it from the receiver.

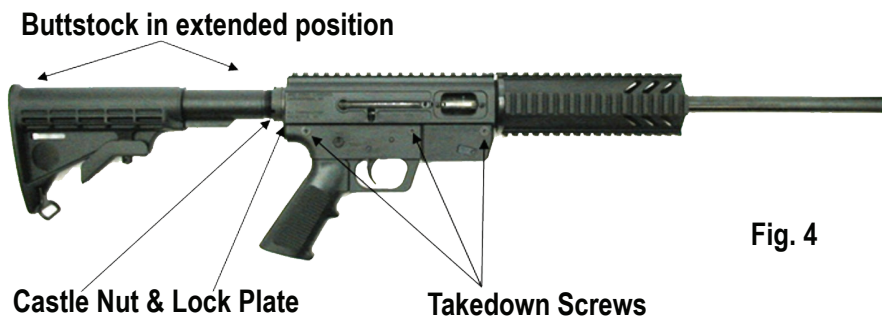


Fig. 4

IF YOU HAVE THE QUICK RELEASE VERSION (2016), see page 24 for disassembly instructions.

Once you have accomplished these steps, you may then unscrew the buttstock assembly from the receiver (turning it counterclockwise when viewed from the rear).

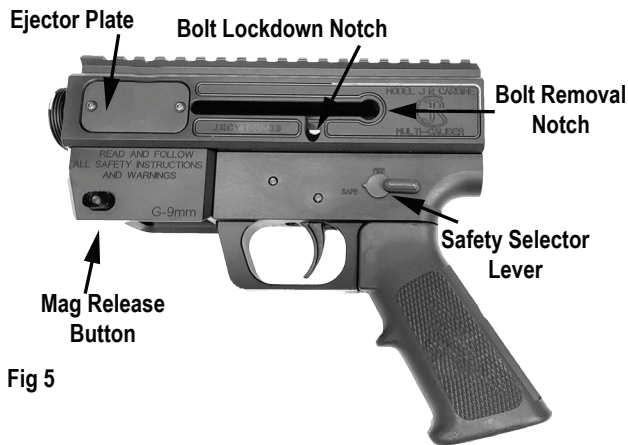


Fig 5

! WARNING: The buffer spring and buffer are under compression and may come out with force. Use caution when unscrewing the butt stock assembly to remove it from the receiver.

Bolt Disassembly

Once you have removed the buttstock, pull the bolt handle rearward to the bolt removal keyhole. (See fig 5) Loosen the Bolt Handle Screw with a hex wrench; pull the screw and bolt handle straight out of the bolt and receiver as a unit. With the bolt handle removed, the bolt may be taken out by pulling it rearward and out of the receiver.

Disassemble the bolt by twisting the bolt extension ninety degrees in relation to the bolt to unlock it from the bolt, then pull the two apart. Pull the firing pin retainer out of the bolt, followed by the firing pin and firing pin spring. (See fig. 6)

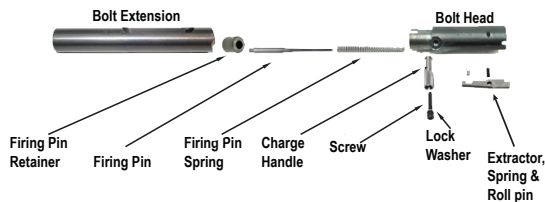


Fig. 6

Forend Removal

! **Note:** When working on the main components of the gun, it will be helpful to retain securely in a padded vise. We strongly encourage you to secure the upper receiver in the vise with the magwell facing up. Do NOT clamp the magwell and trigger housing in the vise and apply significant pressure to any component on the firearm. Damage to the receiver attachment pins may result and will NOT be covered under warranty.

! See page 11 for the various handguard options available.

The Quad Rail forend on the JR Carbine is screwed onto the barrel nut and locked in place with the locking ring.

With the receiver held securely in place, tap the locking ring loose (turning it counterclockwise when viewed from the rear) using a locking-ring wrench or soft, non-marring punch. With the locking ring loose, remove the forend (turning it clockwise when viewed from the rear). You may need to use a soft mallet to break it loose if it is more than hand tight.

A takedown forend has a skinny, 9" long fluted tube which acts as the handguard and also the barrel nut. You can remove this by simply twisting off in a normal, "righty tighty, lefty loosey" fashion. It is designed to be hand tight.

The 13" Keymod or M-LOK rails have SAE allen head cap screws at the bottom of the rail that can be loosened, then the rail can be slipped forward to remove.

Barrel Removal

With the forend removed, you may now remove the barrel nut by using a barrel nut wrench. Securely place the wrench on the nut, carefully apply force (turning it counterclockwise when viewed from the front) and remove the barrel nut. After the barrel nut has been removed, you may remove the barrel from the receiver by pulling it forward out of the receiver.

Receiver And Ejector Disassembly

The ejector is unique in that it is a fixed machined component of the ejector plate (Patent No. U.S. 8,448,363 B2). You may remove the ejector plate by removing the allen (hex) head screws on either side of the port, and with a small tap from the inside as needed once the screws are removed. The ejector plate may be installed on the opposite side of the receiver for opposite side ejection as long as you also reconfigure the bolt accordingly. (See section titled "Changing Direction Of Ejection") If you do remove the ejector plate, please ensure you install the plate with the tab towards the buttstock and away from the chamber area. Failure to do this will cause malfunctions.

Changing Direction Of Ejection

A unique feature of the JR Carbine is that it is truly ambidextrous and can be set up for either right-side or left-side ejection as the shooter desires. To change ejection direction all you have to do is switch the ejector from one side of the bolt to the other.

With the bolt assembly removed from the receiver, drive the 3/32x1/4-inch extractor pin out of the bolt using a 1/16-inch or 3/32-inch punch. Keep the pin and set it aside.

Next, carefully slide the extractor – along with its spring – out of its slot in the side of the bolt. Take care not to lose the extractor spring during removal.

Turn the bolt on its side so that the opposite slot is facing upward. Carefully place the extractor spring in the slot in the proper location so that it lines up with the indented area of the extractor when the extractor is installed.

Place the extractor into the slot so that the hole in the extractor lines up with the extractor pin holes in the bolt AND the extractor spring indent properly fits over the extractor spring. Push down on the extractor gently to ensure you have spring tension on the extractor spring. [**Note:** Light filing of the extractor may be required to break/bevel the edge of the now-downward facing side of the extractor face to match the upward facing side.]

With the extractor properly positioned and the holes in the extractor and bolt properly aligned, insert a punch or allen wrench through the holes to maintain alignment while you prepare to insert the extractor pin.

Gently tap the extractor pin into the bolt from the underside using a punch and small hammer. Center the pin on the extractor.

Test the installation by pressing inward on the back of the extractor. It should resist with spring pressure and should return to its original position when released.

Receiver And Ejector Reassembly

Install the ejector plate on the side of the receiver opposite that on which the extractor is installed in the bolt. . Insert the ejector plate into the fitted opening. Install the 2 allen head screws.

! **Note:** Ensure the tab is located towards the buttstock and NOT the chamber end, otherwise mis-feeding and/or no ejection will occur!

! **CAUTION.** Be careful not to over-tighten the allen head screws, breakage of your tool may occur.

! **SUGGESTION.** It will be helpful to secure the allen head screws with light-duty thread lock such as blue loctite.

Assembling The Barrel And Forend

With the receiver assembly held securely, you can proceed. Install the barrel assembly into the receiver aligning the keyway at the bottom of the barrel with the alignment pin in the receiver. Screw the barrel nut into place clockwise and tighten securely. For the Quad Rail version, Screw the forend lock ring down over the barrel nut so that its back face is flush with the back face of the barrel nut. The forend is then screwed down as far as possible ending with the top picatinny rail in alignment with the receiver rail. Final alignment can be achieved by visual alignment or through clamping of the two rails together and tightening of the locking ring. Use a spanner wrench or soft drift punch when tightening the locking ring in a clockwise direction (facing from the rear). If you have a 13" Keymod or M-LOK rail, just loosen the allen head screws at the bottom and slip onto the barrel nut. If you have the takedown tube, it acts as the barrel nut, so just screw onto the barrel and hand tighten to secure the barrel.

Assembling The Bolt

Assemble the bolt by inserting the firing pin spring, followed by the firing pin and its retainer into the bolt. (NOTE: One end of your firing pin spring will be smaller in diameter than the other. Insert the firing pin into the SMALL end of the spring when re-assembling the bolt. Twist it against the firing pin until the small end of the spring seats against the shoulder of the pin at the end of the taper.) Attach the bolt extension to the rear of the bolt by aligning the slot in the extension with the bolt handle hole on the side of the bolt and pushing the two together. Then twist the bolt extension ninety degrees to lock it to the bolt. (See Fig. 6, pg 15). Under no circumstances should the firing pin be exposed from the front of the bolt after re-assembly. If the firing pin is sticking out, you've assembled the retainer backwards. You must fix this situation before trying to load ammo into the gun, you will experience a slam fire if you try to close the bolt with a bullet in the chamber.

Before inserting the bolt into the receiver, apply a coating of gun lubricant on the exterior of the bolt and allow it to dry completely. Insert the bolt into the receiver assembly from the back. Rotating the bolt assembly slightly aids in bringing it forward alongside the hammer (if the firing assembly is installed on the receiver). Using any handy item such as a punch to depress the hammer and slide the bolt forward over the hammer. You may need to rotate it slightly until the bolt handle hole in the bolt lines up with the take-down hole in the receiver. When they are aligned, insert the bolt handle into the side of the bolt, and tighten the bolt handle screw with an allen wrench.

Assembling The Buttstock

The rubber bumper should be already in the buffer tube (unless manually

removed). Place the nylon disc (if equipped) in the tube on top of the bumper, followed by the spring capped by the buffer. See Page 22. Place the face of the buffer against the back of the bolt extension and compress the spring into the tube by pushing the buttstock forward against the receiver; begin screwing the buttstock onto the receiver. Continue screwing the buttstock onto the receiver until it cannot be tightened any further. Unscrew the buttstock until you have alignment established between the receiver plate and the receiver. Move the receiver plate forward against the receiver ensuring that the receiver plate and receiver mate together and tighten up the castle nut against the receiver plate. Snug the castle nut in place. If you have a Quick Release Buffer Tube. Please see page 24 for installation / removal instructions.

Assembling The Magazine Well And Fire Control Assembly

The magazine well is installed onto the stud of the forward face of the firing assembly and together they are mounted onto the studs of the receiver. Once in place the take-down screws are inserted into their respective holes and tightened into place.

Reassembly Check

With the Carbine pointed in a safe direction the bolt handle should be cycled forward and backward and locked into the bolt catch. The motion should be complete in both directions with the bolt coming all the way forward to the barrel face and the handle backward far enough for the bolt handle to be engaged into the bolt catch, but not back to the take-down hole.

Interchanging Calibers

The JR Carbine can be changed from one caliber to another by removing the barrel, bolt, and magazine well and exchanging them with matching components for another caliber cartridge. For specific details please refer to the JR Carbine Caliber Conversion Instructions provided with your caliber conversion kit.

! WARNING: ALWAYS VISUALLY INSPECT YOUR JR CARBINE AFTER CONVERTING IT AND REASSEMBLING IT. IF YOU CONVERT YOUR JR CARBINE TO ANOTHER CALIBER, YOU MUST VISUALLY INSPECT IT TO ENSURE THAT THE BARREL, THE MAGAZINE WELL, AND THE BOLT ARE ALL DESIGNATED FOR THE SAME CALIBER BEFORE YOU FIRE THE CARBINE AGAIN FOR ANY REASON. IF YOU FAIL TO FOLLOW THIS RULE YOU OR OTHERS MAY SUFFER SERIOUS INJURY OR DEATH AS A RESULT.

JRC Fastener Specs

Name	Size/Type	SAE Wrench size	Recommended Torque	Thread Locking Compound
Receiver Takedown Screws	10-32X3/4" FHSCS	1/8"	20-25 in-lb	nyloc (on screw)
Charge Handle Screw	8-32x1" SHCS	9/64"	35-40 in-lb	Blue
Pistol Grip Screw	1/4-28X1" SHCS	3/16"	20-25 in-lb	None
M-LOK Rail Screws	8-32x3/8" SHCS	9/64"	25-30 in-lb	None
Barrel Nut	AR Barrel Nut	Varies	~30 lb-ft	None
Castle Nut	Std. AR Castle Nut	A/R castle nut Spanner	~20 lb-ft	None
Ejector Plate Screws	4-40X1/4" BHSCS	1/16"	17-20 in-lb	Blue
Feed Ramp Screw	6-32 X 5/16" S/S FHSCS	5/64"	20-25 in-lb	Red
Barrel Thread Protector	Caliber Dependent	n/a	Snug	None

NOTE: *With the exception of the ejector plate, feed ramp and charge handle screws, do not use thread locking compound on any other threads in your JRC!*

Cleaning

To clean your Carbine, use a powder removing solvent and bore brush to brush the barrel bore and chamber. Swab out the bore and chamber with a proper bore rod and patches until clean. Then, push a clean patch saturated with gun oil through the bore, followed by a clean, dry patch.

Disassemble and clean the bolt, bolt extension, receiver, and ejector plate in the same way. Before reassembly, lubricate them with a good quality gun oil.

NOTE: Your JR Carbine has been test fired by the manufacturer before being shipped. As a result you may notice a slight amount of normal post-firing residue remaining within the Carbine's mechanism.

Lubrication

Your JR Carbine is engineered to require only minimal lubrication. We **HIGHLY RECOMMEND** using a quality CLP style gun oil for both lubrication and cleaning. Otherwise, use a spray on dry lubricant sparingly.

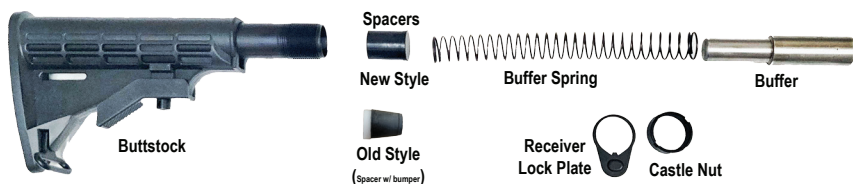
DO NOT OVER OIL!

Note: You may apply a very light coat of gun oil between uses to protect against moisture. If you do, you **MUST** be sure to clean and remove any excess oil from inside the action of your JR Carbine prior to shooting. Failure to do so can result in excess oil and unburned gunpowder being blown out of the charging handle slot on the side of the receiver opposite the charging handle, potentially causing severe injury to the shooter's face and eyes.

Always wear eye protection when firing your JR Carbine!

JR Carbine Buttstock/Buffer Assembly

CAUTION: buttstock and buffer components **MUST** be assembled in the order as shown below



The JR Carbine buttstock internal assembly is a proprietary design that is **CRITICAL** to the safe operation and proper function of the JR Carbine. If you disassemble your buttstock assembly for any reason you **MUST** ensure that you reassemble the components in the order and parts-orientation shown above. Failure to do so may result in serious injury and damage to your carbine, and voids the manufacturer's warranty.

If you install a different buttstock tube assembly than the one provided with your JR Carbine by the manufacturer, the depth of the inside of the replacement buffer tube must match the depth of the original buffer tube provided, plus or minus no more than 1/8 inch. (Note: The internal buffer tube dimensions are different for the carbines of all calibers manufactured after February 2013). Regardless of which buffer tube length your carbine has, you must ensure that you maintain that same internal dimension. If your replacement buffer tube is significantly shorter than the original, you will need to order and install our longer buffer tube to maintain the proper dimension.)

You **MUST** Ensure The Following:

- If your replacement buffer tube is **shorter** than the original, your JR Carbine may not function properly, and it may be impossible to lock the bolt to the rear for chamber clearing and safety purposes. This is an unsafe condition, and the manufacturer will not be held responsible for any resulting injury or damage.
- If your replacement buffer tube is **longer** than the original, you **MUST install a spacer** in the bottom of the buffer tube to make up the difference and make the buffer tube depth identical to that of the original. If you have to use a spacer, it must be installed first, **BEFORE** any of the other components. Failure to install – or to **PROPERLY** install – a spacer will, at a minimum, keep your JR Carbine from operating properly and safely.

A bent or broken charging handle typically indicates an improperly assembled buttstock, and is not covered under warranty.

The table below is a reference point for the various models over the years that JRC has produced. It is not the only combination you may run into, but it should give you a good starting point to evaluate your individual situation.

See page 11 for a picture of the various buffers you could see in a JR Carbine.

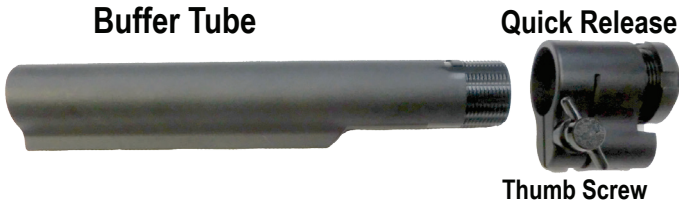
Caliber	Tube Inside length	SS Buffer length	Spacer / bumper length
9mm	7.5" ***	3.75" plain	1.25"
9mm	9.0"	4.75" plain	1.25"
40 S&W	9.0"	4.75" Lead filled	1.25"
45 ACP	9.0"	4.75" Lead filled	1.25"
10mm	9.0"	5.25" Lead filled	0.625"

*** 9mm should be the ONLY caliber with a buffer / buffer tube combination in this configuration. 40 S&W and 45 ACP calibers MUST have the 9" long tube and the 4.75" buffer at a minimum. 10mm requires use of ONLY the JRC 9" tube with the 5.25" long buffer

! Do NOT substitute a std. AR 15 spring or buffer system into your JR Carbine EVER! It will not work. You will damage the gun and you will not be covered under warranty! If you shoot competitively and want to try a custom buffer system, it may or may not work. JRC will not support aftermarket systems added to the firearm. Be aware that you are voiding any warranty if you attempt this.

Quick Release

Just Right Carbines introduced a “Quick Release” feature for its Gen3 firearms in 2016. It was transitioned to an accessory item in 2017 until it was discontinued. The Quick Release allows the user to detach the buffer tube without the use of tools for easy cleaning, storage, etc. The buffer tube is secured into the back of the receiver via a housing that uses a thumb screw to lock the tube into place.



To remove the tube: Loosen the thumb screw; turn the buffer tube counter-clockwise until you reach a full stop with the locator pin in the slot. Then, pull the tube back firmly, being careful to manage the spring and the buffer as the buffer will be only loosely held by the spring. It can fall and either injure you or damage your floor!

To install tube: Make sure you have all the buffer tube parts in place correctly (see elsewhere in this manual for proper assembly order). Line the locator pin in the quick release housing with locator slot on the tube; push in firmly until fully engaged.



Turn clockwise until tube stops as the locator pin reaches the end of the slot. Your buttstock should be in line with the receiver. If it is not, remove tube and re-install. Tighten the wing nut to clam down on the tube for positive retention. If you prefer, there is a video on our website (<https://www.justrightcarbines.com>) showing assembly and disassembly of the Quick Release.

! WARNING: It is essential that the user ensure the buffer tube is fully and properly engaged and locked firmly into place before attempting to shoot the gun. Serious injury and/or death to the user and/or bystanders can result if the buffer tube is not properly located in place, as well as damage or destruction to the gun! When in doubt, DO NOT PULL THE TRIGGER.

JRC-Pistol Model

If your new gun is a pistol rather than a rifle, it is designed, made, and intended to be held in only one hand when being used. Given the fact that your pistol has a shorter barrel than the Just Right Carabines rifle, care should be taken to keep your non-firing hand, your other body parts, and spectators/bystanders/observers away from the muzzle of the pistol, including the muzzle brake. Failure to do so will result in serious bodily injury or death.

If you have a quad-rail or M-LOK version of the Just Right Carabines pistol, rather than the take down version, care should be taken not to adjust or manipulate any accessories you have mounted on the quad-rail (lights, lasers, optics, etc.) while you are firing the pistol. It is not possible to keep your hand a sufficient distance from the muzzle and/or the muzzle brake when adjusting, manipulating, or handling accessories mounted on the rail to avoid serious bodily injury or death if you try to adjust, manipulate, or handle the accessories while firing the pistol.

While Just Right Carabines cannot provide legal advice, be sure to know and follow all applicable Federal, state, and local laws and regulations before using or modifying your pistol. For example, the use of certain accessories such as a forward hand grip may change your gun's classification under the Gun Control Act, the National Firearms Act, and/or applicable ATF regulations. Any and all legal questions should be directed toward legal counsel prior to taking any action.

All other instructions and warnings contained in this Safety and Instruction Manual regarding the operation, use, storage, cleaning, assembly, disassembly, ammunition, etc. of a Just Right Carabines rifle apply equally to the Just Right Carabines pistol since the mechanical operation and functioning of the pistol is substantially similar to the rifle.

LIMITED LIFETIME WARRANTY

Just Right Carbines (“JRC”) fully warrants, to the first retail purchaser of this firearm from a recognized dealer/FFL in the United States of America, this firearm to be free from any defects in the materials and workmanship, under normal use. This limited lifetime warranty reflects the confidence of the maker and the quality of the materials and workmanship of its guns. This limited lifetime warranty has been established to protect your investment.

Just Right Carbines will repair or replace, at its option, any defects due to faulty material or workmanship throughout the first purchaser’s ownership of this firearm. The owner must first notify Just Right Carbines and state the difficulty experienced, along with the date and place of original purchase, model number, and serial number of the firearm. If the gun is to be returned to JRC for adjustment or repair, you must first contact JRC in order to obtain a return authorization number (“RA”), and **the RA number must be written on the outside of the shipping box**. All repaired and/or replaced firearms will only be returned to the specific person and/or dealer/FFL from whom the firearm was received – **no exceptions**. Firearms received without a RA number will not be accepted by JRC.

You must also properly and securely pack the unloaded gun. **Do not ship a loaded gun**. All attachments, cases, accessories, or special grips should be removed. When returning your firearm to Just Right Carbines, you may ship via United Parcel Service insured or other common carrier or through a licensed dealer/FFL. **Customer is responsible for shipping charges and must be prepaid**. Just Right Carbines will promptly acknowledge the receipt of all firearms returned for repair. If an acknowledgment is not received within 30 days, please contact the Warranty Department. Please address returns to Just Right Carbines, Attention: Warranty Department, 231 Saltonstall Street, Canandaigua, NY 14424. JRC always attempts to repair and return customers’ firearms as promptly as possible. However, depending on work load and the availability of parts, it is not impossible that there may be a delay in doing so. If that is the case, JRC will attempt to inform the customer of the status/delay regarding their firearm. However, JRC welcomes calls from customers, so please do not hesitate to contact us to check on the status of your firearm.

Once the gun is repaired or adjusted, the gun will be returned to you within a reasonable period of time. If, however, the necessary repairs cannot be made within a reasonable period of time, you will be notified. Return shipping and insurance charges will be paid by Just Right Carbines if repaired under warranty. If the repairs were not covered under warranty, the customer is responsible for return shipping.

EXCLUDED FROM THIS WARRANTY ARE THE FOLLOWING: malfunctions/damage caused by improper use; unauthorized modifications, incorrect assembly, adjustments, or repairs by the customer or his agents,

shipping damage; physical abuse, careless handling; defective or improperly loaded ammunition; reloaded ammunition; corrosion; failure to follow the Just Right Carbines instructions and warnings; and ordinary wear and tear. If for any reason it is determined by Just Right Carbines that the firearms requires parts and/or service that is not covered by this warranty, Just Right Carbines will contact the owner for authorization to proceed before commencing any work.

Just Right Carbines' responsibility under this warranty is limited to the repair or replacement of the firearm. Responsibility or liability for damage to property other than the firearm, personal injury or death, or other consequential damages is **SPECIFICALLY EXCLUDED**. This item is classified as a FIREARM and is released by Just Right Carbines with the explicit understanding that we are not responsible for personal injury or property damage caused by improper use or accidental discharge due to conditions beyond our control, including the failure to follow the Just Right Carbines instructions and warnings.

Just Right Carbines is also not responsible for the legality of resale of the firearm by any person or retailer.

This limited lifetime warranty replaces all other warranties previously issued by Just Right Carbines and in no way reduces any warranty coverage which you may have had under any previous warranty. This warranty is in full compliance with the Magnuson-Moss Warranty --- Federal Trade Commission Improvement Act, Public Law No. 93-637 (July 4, 1975). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

All inquiries concerning warranty service may be made by writing to the Warranty Manager or by calling 585-396-1551 or by email to sales@justright-firearms.com.

This material must always accompany this firearm and be transferred with it upon change of ownership or possession. Additional or replacement copies may be ordered without charge from: Just Right Carbines, Attention: Warranty Department, 231 Saltonstall Street, Canandaigua, NY 14424.

ATTENTION CANADIAN CUSTOMERS

While you are always free to contact Just Right Carbines with any questions about your firearm, its operation, and/or any issues you may be having with it, **DO NOT ATTEMPT TO RETURN YOUR FIREARM TO JUST RIGHT CARBINES AND/OR TO THE UNITED STATES.**

Warranty service for this firearm is handled by:

JR Carbine Warranty Registration

Please complete this registration form to facilitate any future warranty or repair work you may need, and to enable Just Right Carbines to contact you in the event of any product notices or upgrades. This information will be maintained for these purposes only. It will not be sold to or shared with other companies.

Please mail your completed registration card to:

Just Right Carbines, LLC
Attn: Warranty Registration
231 Saltonstall Street
Canandaigua, NY 14424

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Email Address: _____

Place of Purchase: _____

Date of Purchase: _____

Specifics for your JR Carbine

Serial Number: _____

Model (Circle One):

☐ Unrestricted	☒ Restricted State (CT, MA, NJ, NY)	☐ California
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Caliber (Circle One): 9mm .40S&W . 45ACP 10mm

Magazine Type (Circle One): Glock M&P

