



**KODIAK DEFENCE INC  
OWNER'S MANUAL  
FOR  
WK180-C RIFLE**



**⚠ READ THIS MANUAL  
THOROUGHLY, PARTICULARLY  
THE WARNINGS, BEFORE USING THIS  
FIREARM! IT'S IMPORTANT!**

**P/N: MANUAL WK180-C**

**KODIAK DEFENCE INC.  
397 Holden Avenue,  
Windsor, Ontario  
N8X 2W6  
Canada**

## 1. READ THIS FIRST!

Throughout this manual you will find WARNINGS and/or CAUTIONS printed in bold print. All WARNINGS and CAUTIONS should be read carefully and followed completely. WARNINGS discuss issues that could result in damage to your firearm, or injury or death to you or a bystander. CAUTIONS discuss issues that could result in damage or malfunction of your firearm.



**WARNING: IT IS YOUR RESPONSIBILITY TO ASSURE THAT YOUR FIREARM IS HANDLED, FIRED, AND STORED SAFELY AND RESPONSIBLY AT ALL TIMES.**

This manual provides instructions on the operation and maintenance of your Kodiak Defence Inc. firearm.

Read and understand it carefully before you try to use your firearm. Your safety, and that of those around you, depends on your knowledge of your firearm and on your knowledge of safety rules common to all firearms. Please study the common-sense safety rules noted in this manual. Your first responsibility as a gun owner is always safety!

Your second responsibility as a gun owner is security. Make sure that your firearm remains in responsible hands...YOURS! Don't become an unwitting partner in a crime or tragedy: make sure your firearm is properly secured. Lock it in a secure storage container or, if none is available, remove the bolt group and store it separately.

If you have more than one similar firearm, make sure that you specifically identify the removed component with its original firearm because the components are not interchangeable.

It is also your responsibility to assure that you comply with all federal, provincial and local laws with regard to the purchase, ownership, use, and storage of your firearm.

This manual may serve several models of Kodiak Defence Inc. firearms. If so, instructions which refer to specific models will be clearly marked.

## NOTICE

Kodiak Defence Inc. and Wolverine Supplies has no control over the use of your firearm, and shall not be responsible for injury, death, or damage to property resulting from either intentional or accidental discharge of this firearm. In addition, Kodiak Defence Inc. and Wolverine Supplies shall not be responsible for proper function of the firearm when it is used for purposes or subjected to treatment for which it was not intended. Kodiak Defence Inc. and Wolverine Supplies will not honour claims which may result from careless or improper handling, unauthorized adjustments or parts replacement, corrosion, neglect, use of the wrong type or caliber of ammunition, or the use of ammunition other than original, high quality commercially manufactured ammunition in good condition or any combination thereof.

## **2. SAFETY FIRST! IT'S YOUR RESPONSIBILITY!**

- \* Treat every gun as if it is loaded ...AT ALL TIMES!**
- \* Always keep the muzzle pointed in a safe direction.**
- \* Never point your firearm at anything that you do not intend to shoot.**
- \* Keep your finger off the trigger and out of the trigger guard until you are aiming at your target and ready to shoot.**
- \* Always keep the safety in the "SAFE" position, especially when the firearm is loaded and cocked, until you are ready to fire.**
- \* Always keep and carry your firearm with an empty chamber until you intend to shoot, so that your firearm cannot be fired unintentionally. Firearms should be unloaded when not actually in use.**
- \* Be sure of your target and backstop before you shoot. Ask yourself what your bullet will hit if it misses or goes through the target.**
- \* Never shoot at hard, flat surfaces or water...bullets can ricochet.**
- \* Always wear hearing and eye protection when shooting.**
- \* Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead, a substance known to be associated with birth defects, reproductive harm, and other serious injury. Have adequate ventilation at all times and wash hands after handling.**
- \* Be sure that your barrel is clear of obstructions, including excessive oil, grease, cleaning patches, etc. before shooting.**
- \* Use only clean, high quality factory loaded ammunition in good condition. Kodiak Defence Inc. cannot condone the use of handloaded ammunition. Any such use voids the Kodiak Defence Inc. warranty.**
- \* Do not alter or modify your firearm.**
- \* Do not try to change your firearm's trigger pull because alterations of trigger pull can affect sear engagement and might cause accidental firing.**
- \* Store firearms and ammunition separately and beyond children's reach.**

**IN CASE OF MALFUNCTION, STOP! REVIEW THIS MANUAL TO IDENTIFY AND RESOLVE THE PROBLEM. IF YOU CANNOT RESOLVE IT, CONTACT KODIAK DEFENCE INC..**

**KEEP THIS MANUAL WITH YOUR RIFLE. IF YOU SELL THE RIFLE, GIVE THIS MANUAL TO THE NEW OWNER.**

### 3. TABLE OF CONTENTS

1. READ THIS FIRST!.....	- 2 -
2. SAFETY FIRST! IT'S YOUR RESPONSIBILITY! .....	- 3 -
3. TABLE OF CONTENTS.....	- 4 -
4. SAFE STORAGE .....	- 5 -
5. GENERAL INFORMATION .....	- 6 -
6. EXPLODED PHOTOS AND PARTS LISTS .....	- 8 -
7. AMMUNITION .....	- 14 -
8. INITIAL ASSEMBLY, INSPECTION, AND CLEANING.....	- 15 -
8.1 INITIAL ASSEMBLY .....	- 15 -
8.2 INITIAL INSPECTION .....	- 15 -
8.3 INITIAL CLEANING .....	- 15 -
8.4 BREAKING IN BARRELS .....	- 16 -
9. LOADING AND FIRING .....	- 17 -
9.1 LOADING THE MAGAZINE .....	- 18 -
9.2 CHAMBERING AND FIRING A ROUND .....	- 19 -
10. CLEARING / UNLOADING THE FIREARM.....	- 21 -
12. DISASSEMBLY .....	- 23 -
12.2 BOLT CARRIER GROUP .....	- 25 -
12.3 UPPER RECEIVER: .....	- 26 -
13. MAINTENANCE.....	- 27 -
13.1 CLEANING LUBRICANTS AND LUBRICATION .....	- 27 -
14. REASSEMBLY .....	- 28 -
14.1 REASSEMBLY .....	- 28 -
14.2 FUNCTIONAL CHECK.....	- 29 -
15. TROUBLESHOOTING .....	- 30 -
16. WARRANTY, SERVICE, AND SUGGESTIONS .....	- 33 -

## **4. SAFE STORAGE**



**WARNING: ALWAYS ASSURE THAT YOUR FIREARM IS COMPLETELY UNLOADED BEFORE STORING IT. ALWAYS TREAT YOUR FIREARM AS IF IT WERE LOADED. ALWAYS STORE YOUR FIREARM IN ACCORDANCE WITH ALL CURRENT LEGAL REQUIREMENTS.**

## 5. GENERAL INFORMATION

Your WK180-C is a lightweight, gas operated, air cooled, magazine fed semiautomatic rifle. The barrel includes a threaded flash hider.

The rifle is readily opened by pressing the guide rod assembly forward, providing ready access for removal of the bolt carrier group. It also provides access to all other working parts for convenient cleaning and inspection.

The bolt incorporates six locking lugs and one safety lug. Upon closing, the bolt rotates to engage similar locking lugs in the barrel extension. The full force of the combustion of the powder charge is absorbed by the barrel extension and bolt, and no pressure is exerted upon the receiver. The design contributes to the high degree of safety, durability, and performance of the rifle. Due to the light weight, portability and convenience for carrying is greatly enhanced.

### 5.1 SPECIFICATIONS

#### Weight

WK180-C Rifle without Magazine	7 lb. / 3.2 kg
Empty Aluminum 5 RND Magazine	4.24 oz. / 120.2 g
Loaded Magazine (5 RND)	6.4 oz. / 181.7 g
WK180-C Rifle with Loaded Magazine	7 lb 6.4 oz. / 3.36 kg

#### Length

Rifle with Threaded (1/2 X 28) A2 Flash Hider	36 in. Stock fully collapsed 39 in. Stock fully extended
Barrel	18.7 in.
Barrel with Threaded (1/2 X 28) A2 Flash Hider	19.9 in.

#### Mechanical Features

Rifling,	R.H. 6 grooves - 1 turn in 8 in.
Trigger Pull	7.0 – 8.0 lb.
Method of Operation	Gas
Type of Mechanism	Rotating bolt

#### Ammunition

Caliber	5.56 NATO
---------	-----------

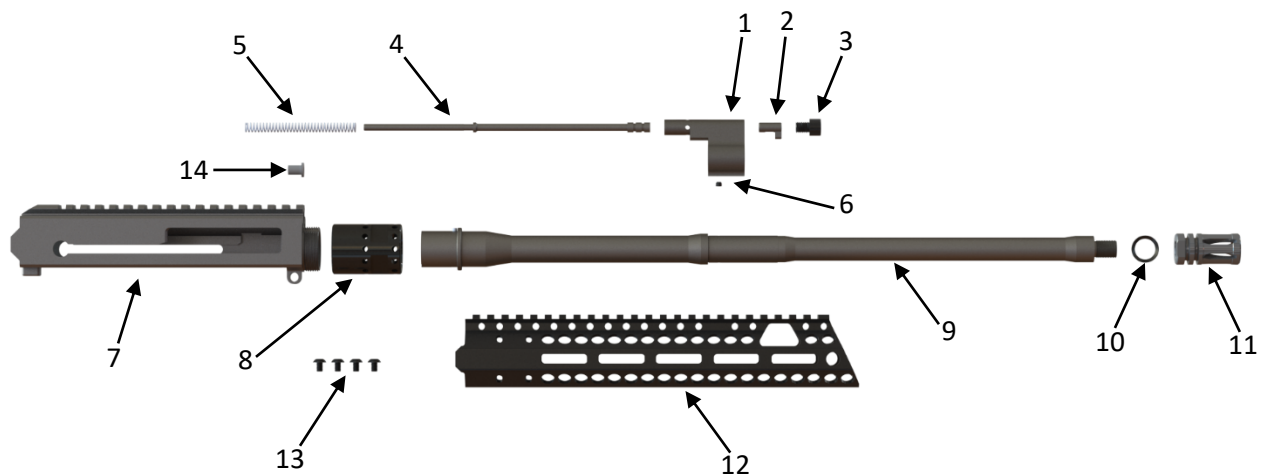


**WARNING: YOUR KODIAK DEFENCE INC. FIREARM WAS DESIGNED TO FUNCTION PROPERLY WITH ITS ORIGINAL COMPONENTS. ALTERATIONS TO ITS ORIGINAL COMPONENTS OR REPLACEMENT OF THEM WITH AFTERMARKET (NON-KODIAK DEFENCE INC.) COMPONENTS CAN CAUSE MALFUNCTIONS OR EVEN MAKE THE FIREARM UNSAFE. DO NOT ALTER ANY PART OR ADD / SUBSTITUTE PARTS NOT MANUFACTURED BY KODIAK DEFENCE INC.**

## 6. EXPLODED PHOTOS AND PARTS LISTS

The photos and associated parts lists in this section will give you visual references to parts discussed in the text. In the text, you will note part numbers in parentheses behind some part names. Those part numbers are the same as part numbers shown in the exploded photos and part lists. For example, a part numbered “U-7” in the text would refer to the part numbered “7” in the Upper Receiver Group exploded photo and in its associated parts list.

### WK180-C UPPER RECEIVER GROUP

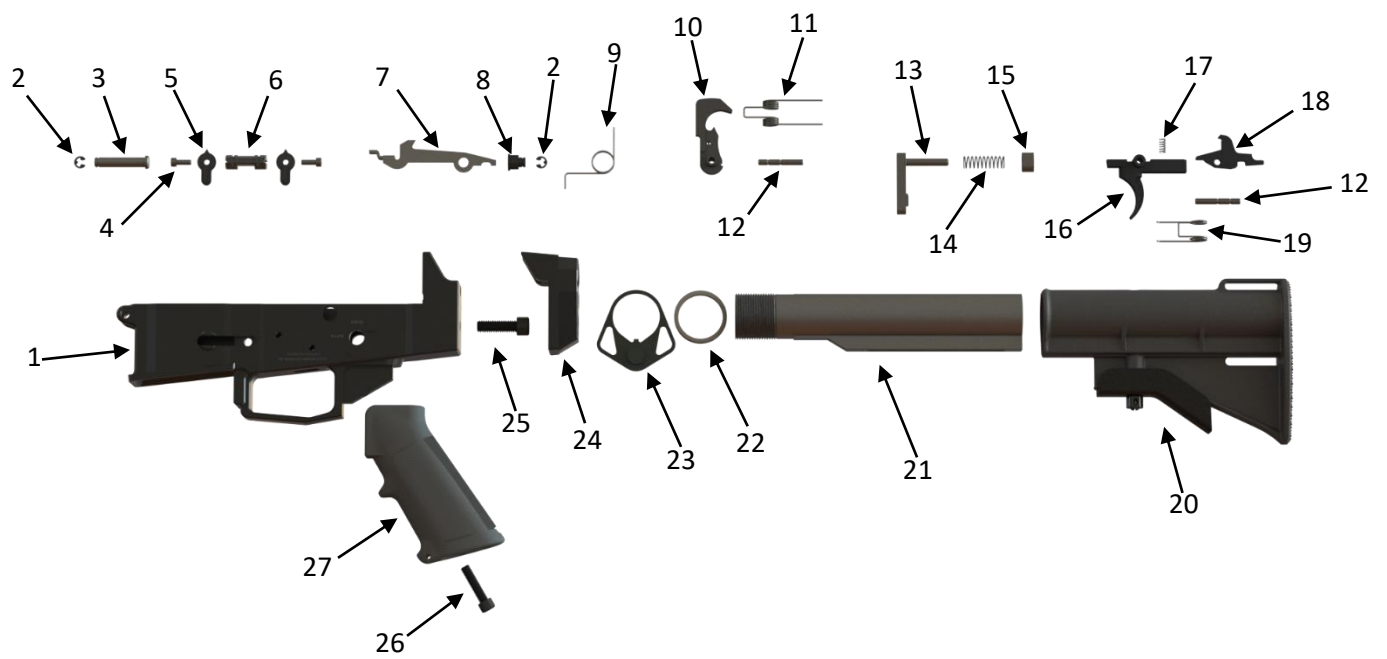




## WK180-C UPPER RECEIVER GROUP PARTS

Fig. No.	Description	Mfg. Stock No.	Qty. In Assembly
1	PISTON GAS BLOCK, WK180C	WK180-4001	1
2	PISTON CUP, WK180C	WK180-4004	1
3	SHCS, 5/16-24 X 3/8IN	F0007	1
4	PISTON ROD, CARBINE LENGTH, WK180C	WK180-4003	1
5	PISTON SPRING, WK180C	WK180-4002	1
6	SET SCREW, #10-32 X 1/8	F0006	1
7	UPPER RECEIVER, WK180C	WK180-2001	1
8	BARREL NUT, LOW PROFILE, AR15 BARREL	AR15-7001	1
9	ASSMEBLY, 18.7 INCH, 5.56 NATO, CARBINE GAS PORT	AR15-7002	1
10	WASHER, CRUSH, AR15 MUZZLE	AR15-7006	1
11	FLASH HIDER, AR15	AR15-7005	1
12	HANDGUARD, 10IN, MIL-STD-1913 RAIL, WK180C	WK180-2002	1
13	BHSCS, #10-32 X 1/4IN	F0008	4
14	BUSHING, NYLON, PISTON	WK180-2003	1

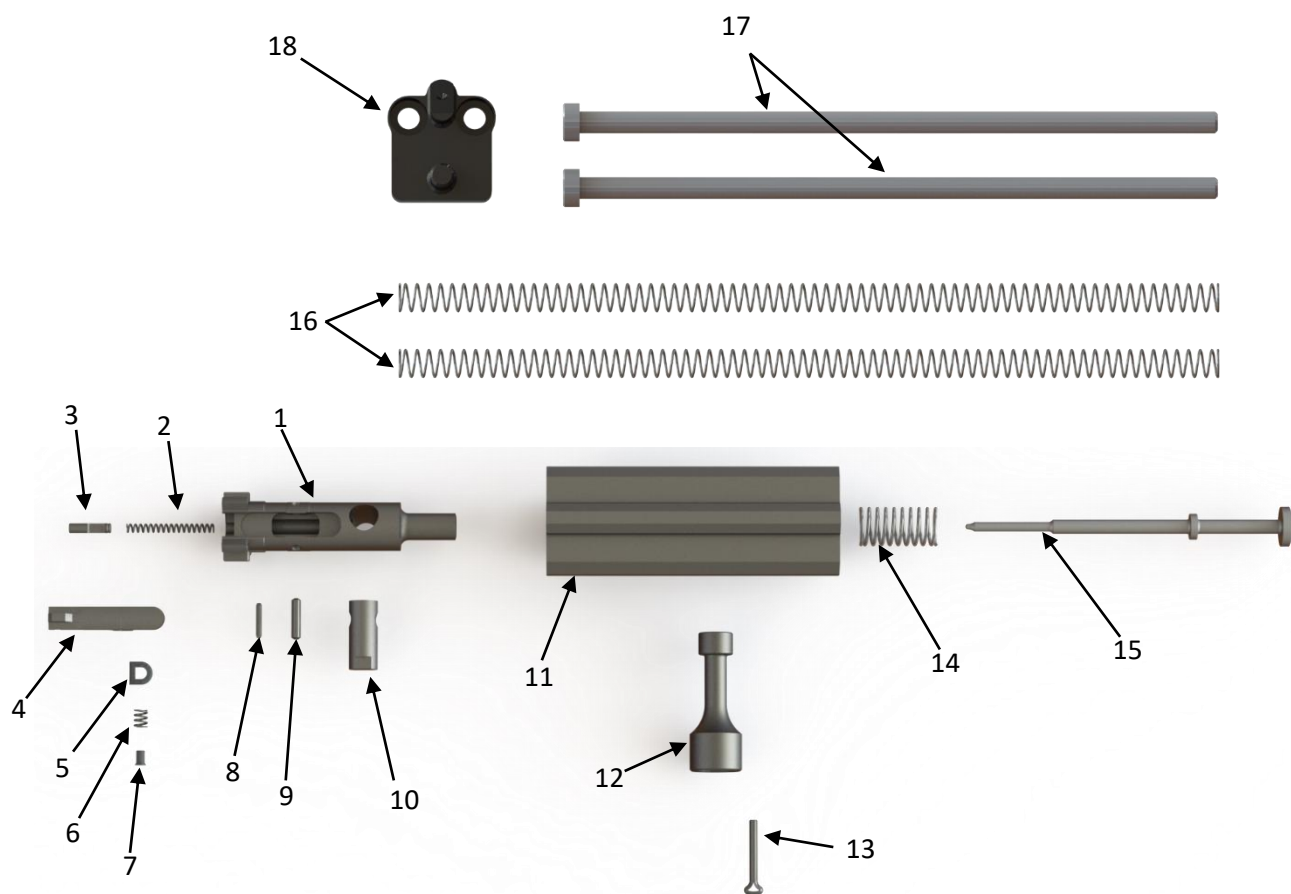
## WK180-C LOWER RECEIVER GROUP



## WK180-C LOWER RECEIVER GROUP PARTS

Fig. No.	Description	Mfg. Stock No.	Qty. In Assembly
1	LOWER RECEIVER, WK180C	WK180-1001	1
2	EXTERNAL RETAINING RING, .17IN	F0002	2
3	PIVOT PIN, WK180C	WK180-1008	1
4	SHCS, #6-40 X .375IN	F0001	2
5	SELECTOR PLATE, AMBI, AR15	AR15-5002	2
6	SELECTOR CYLINDER, SEMI-AUTO, WK180C	WK180-1003	1
7	BOLT CATCH ARM, WK180C	WK180-1006	1
8	PIN, BOLT CATCH, WK180C	WK180-1005	1
9	SPRING, BOLT CATCH, WK180C	WK180-1007	1
10	HAMMER, SEMI-AUTO, AR15	AR15-3001	1
11	SPRING, HAMMER, AR15	AR15-3003	1
12	PIN, TRIGGER / HAMMER, WK180C	WK180-1010	2
13	ARM, MAGAZINE CATCH, AR15	AR15-2002	1
14	SPRING, MAGAZINE CATCH	AR15-2007	1
15	BUTTON, MAGAZINE CATCH, AR15	AR15-2005	1
16	TRIGGER, SEMI-AUTO, AR15	AR15-1001	1
17	SPRING, DISCONNECT, AR15	AR15-1002	1
18	DISCONNECTOR, SEMI-AUTO, AR15	AR15-1003	1
19	SPRING, TRIGGER, AR15	AR15-1005	1
20	BUTT STOCK, SLIDING, ASSEMBLY, AR15	KD9000	1
21	EXTENSION, RECEIVER, 6 POSITION	AR15-8001	1
22	NUT, RECEIVER EXTENSION	AR15-8005	1
23	END PLATE, AR15	AR15-8004	1
24	BUFFER TUBE STOCK ADAPTER, WK180C	WK180-1009	1
25	SHCS, 5/16-18 X 1.0IN	F0004	1
26	SHCS, 1/4-28, 1.0IN	F0003	1
27	PISTOL GRIP, AR15	AR15-4001	1

## WK180-C BOLT CARRIER AND OPERATING SPRING GROUPS



## WK180-C BOLT CARRIER AND OPERATING SPRING GROUP PARTS

Fig. No.	Description	Mfg. Stock No.	Qty. In Assembly
1	BOLT, WK180C	WK180-3002	1
2	EJECTOR SPRING, AR15	AR15-6003	1
3	EJECTOR, AR15	AR15-6002	1
4	EXTRACTOR, AR15	AR15-6004	1
5	O-RING, EXTRACTOR, AR15	AR15-6005	1
6	EXTRACTOR SPRING, AR15	AR15-6007	1
7	EXTRACTOR INSERT, AR15	AR15-6006	1
8	SPRING PIN, 1/16IN DIA X 3/8IN	F0005	1
9	EXTRACTOR PIN, AR15	AR15-6008	1
10	CAM PIN, WK180C	WK180-3003	1
11	BOLT CARRIER, WK180C	WK180-3006	1
12	CHARGING HANDLE, WK180C	WK180-3007	1
13	RETAINING PIN, FIRING PIN	AR15-6009	1
14	FIRING PIN SPRING, WK180C	WK180-3005	1
15	FIRING PIN, WK180C	WK180-3004	1
16	RETURN SPRING, WK180C	WK180-5003	1
17	GUIDE ROD, WK180C	WK180-5002	1
18	RETURN SPRING PLATE, WK180C	WK180-5001	1

\*\*\*If the bolt body is replaced, headspace needs to be checked by a qualified gunsmith.

## 7. AMMUNITION

Nomenclature of cartridges can be confusing. It is vital that you understand cartridge nomenclature and only fire cartridges for which this firearm was designed. To assist you, the name of the appropriate cartridge will be etched on the receiver and/or barrel of each Kodiak Defence firearm.

Firing any of the ammunition described in the below warnings/cautions will void your warranty.



**WARNING: USE OF INCORRECT AMMUNITION CAN CAUSE FIREARM DAMAGE, PERSONAL INJURY, OR DEATH. MAKE ABSOLUTELY CERTAIN THAT YOU ARE USING CARTRIDGES DESIGNED FOR YOUR FIREARM. DO NOT FIRE OLD, CORRODED, DEFORMED, OR HANDLOADED AMMUNITION. IF YOU HAVE ANY QUESTIONS, CONTACT KODIAK DEFENCE INC. BEFORE FIRING.**

Your WK180-C Rifle is chambered for 5.56 NATO cartridges. It will fire all standardized U.S. military 5.56mm cartridges and all factory loaded cartridges in .223 Remington caliber.

**NOTE: Some types/brands of ammunition have unique characteristics (e.g. extremely light or heavy projectiles, particularly soft cartridge cases, propellant that burns unusually slowly or rapidly) that reduce its reliability in any semiautomatic firearm. Kodiak Defence Inc. recommends that you purchase and test a small quantity of any type of ammo in your firearm before you buy large quantities.**

## 8. INITIAL ASSEMBLY, INSPECTION, AND CLEANING

### 8.1 INITIAL ASSEMBLY

Your WK180-C is shipped to you completely assembled.

### 8.2 INITIAL INSPECTION



**WARNING: READ THIS MANUAL COMPLETELY AS YOU INSPECT YOUR NEW KODIAK DEFENCE INC. FIREARM. MAKE CERTAIN THAT YOU UNDERSTAND HOW TO ASSEMBLE, OPERATE, DISASSEMBLE, MAINTAIN, AND STORE YOUR FIREARM SAFELY BEFORE YOU USE IT.**

**NOTE:** Like the aluminum-framed AR-10 and M-15 rifles, the thin web of material between the magazine well and the magazine catch spring pocket may produce an opening in the middle of the rear wall of the magazine well. This is a normal condition with no adverse effect on function.

Any time you disassemble and reassemble a firearm, you should conduct a functional check of it as described in the REASSEMBLY section of this manual.

### 8.3 INITIAL CLEANING

Merely clean the bore of your firearm and lubricate the firearm as described in the Maintenance section below. Kodiak Defence Inc. firearms are made more tightly than other rifles of similar design. A break-in period of 200 rounds allows machined or phosphate-coated surfaces to smooth out the rifle's action. Lubricate the rifle well before firing.



**WARNING: TO ASSURE ITS PROTECTION FROM CORROSION, YOUR KODIAK DEFENCE INC. FIREARM HAS BEEN SHIPPED WITH PRESERVATIVE OIL IN THE BORE. FIRING THE FIREARM WITH PRESERVATIVE IN THE BORE CAN INCREASE PRESSURES, WITH POSSIBLE FIREARM DAMAGE OR PERSONAL INJURY OR DEATH. CLEAN AND DRY THE BORE BEFORE FIRING YOUR KODIAK DEFENCE INC. FIREARM.**

## **8.4 BREAKING IN BARRELS**


Kodiak Defence Inc. does not recommend breaking in barrels using abrasives. For optimum accuracy and barrel life, Kodiak Defence Inc. recommends the following break-in procedure:


1. Fire 9 single shots. After each shot, push a cotton patch wet with solvent through the bore. Then wet a nylon brush with solvent and stroke the barrel five to ten round trips. Follow with another wet patch and then a dry patch or two.
2. From 10 to 30 shots, clean as above after each five shots. Initial break-in should now be complete.


For normal cleaning, it is suggested that you clean after each range session.




## 9. LOADING AND FIRING

 **WARNING: ALWAYS KEEP THE SAFETY IN THE “SAFE” POSITION UNTIL YOU ARE READY TO FIRE THE FIREARM. REMEMBER THAT THE SAFETY IS SIMPLY A MECHANICAL DEVICE, AND AS SUCH, COULD POSSIBLY FAIL. NEVER DEPEND ON ANY SAFETY TO JUSTIFY UNSAFE GUN HANDLING. ALWAYS KEEP THE CHAMBER EMPTY AND THE FIREARM POINTED IN A SAFE DIRECTION EVEN WHEN THE SAFETY IS ON.**

 **WARNING: INJURY, DEATH, OR FIREARM DAMAGE CAN RESULT FROM FIRING A FIREARM WITH AN OBSTRUCTION IN THE BORE. BEFORE YOU FIRE, MAKE SURE THAT THE BORE IS NOT OBSTRUCTED. NEVER ATTEMPT TO SHOOT OUT A BORE OBSTRUCTION.**

 **WARNING: ALWAYS WEAR EYE AND EAR PROTECTION. MAKE SURE THAT NEARBY BYSTANDERS ALSO WEAR EYE AND EAR PROTECTION. WARNING: HANDLING OF CARTRIDGES AND FIRING FIREARMS MAY EXPOSE YOU TO LEAD. ALWAYS ASSURE THAT THERE IS ADEQUATE VENTILATION. ALWAYS WASH YOUR HANDS AFTER HANDLING AMMUNITION OR FIRING YOUR FIREARM.**

 **WARNING: THIS FIREARM WILL FIRE WITHOUT A MAGAZINE IN IT. ALWAYS ASSURE THAT THE CHAMBER IS EMPTY. THE FIREARM SHOULD NOT BE CONSIDERED TO BE SAFE UNLESS THE MAGAZINE IS REMOVED, THE SAFETY IS ON, AND THE BOLT / SLIDE IS OPEN, AND THE CHAMBER IS EMPTY.**

 **WARNING: GRIPPING THE FIREARM LOOSELY WHEN FIRING CAN CAUSE THE SHOOTER TO FIRE TWO SHOTS (THE SECOND AS THE TRIGGER STRIKES THE SHOOTER’S TRIGGER FINGER DURING COUNTER-RECOIL.) THIS IS A SHOOTER ERROR, NOT A FIREARM MALFUNCTION.**

 **WARNING: THE FIRED CARTRIDGE CASE IS HOT WHEN IT IS EJECTED FROM THE FIREARM. DO NOT ALLOW IT TO BURN YOU OR TO DISTRACT YOU FROM SAFE HANDLING OF THE FIREARM.**



**WARNING: IF THE FIREARM FAILS TO FIRE WHEN THE TRIGGER IS PULLED:**

- 1. KEEP THE FIREARM POINTED AT THE TARGET!!!**
- 2. WAIT 60 SECONDS TO ALLOW A POSSIBLE “HANGFIRE” TO GO OFF. THEN,**
- 3. CHECK TO SEE IF THE SAFETY IS ENGAGED BY MISTAKE. IF SO, PUSH THE SAFETY TO THE “FIRE” POSITION AND FIRE.**
- 4. IF THE FIREARM STILL DOESN’T FIRE, BE CAUTIOUS AND ASSUME THAT THE CARTRIDGE WILL DISCHARGE WHEN THE BOLT/SLIDE IS OPENED.**
- 5. OPEN THE BOLT/SLIDE QUICKLY AND UNLOAD THE FIREARM.**
- 6. EXAMINE THE FIREARM AND CARTRIDGE CAREFULLY TO IDENTIFY THE CAUSE OF THE MALFUNCTION.**

## **9.1 LOADING THE MAGAZINE**

The magazine follower has a raised portion generally resembling the outline of a cartridge. Cartridges are loaded into the magazine so that the tips of the bullets point in the same direction as the raised portion of the follower.

Set the cartridge on the follower, between the feed lips, pointing the same direction as the “bullet” on the follower, and press it straight down until it’s held by the lips of the magazine.



## 9.2 CHAMBERING AND FIRING A ROUND

**⚠ CAUTION: TAKE IT EASY WITH YOUR MAGAZINES. KEEP THEM CLEAN, DRY, AND DON'T POUND THEM INTO THE FIREARM. IT LOOKS GREAT IN THE MOVIES, BUT CAN DAMAGE THEM. INSERT THE MAGAZINE FULLY INTO THE FIREARM. THEN TUG DOWNWARD ON IT TO ASSURE THAT IT'S SECURELY LOCKED INTO THE FIREARM.**

1. Set the safety (L-5) to "SAFE"
2. Hold the handguards (U-12) of the rifle with one hand, pointing the muzzle in a safe direction. With the other hand, insert a loaded magazine into the magazine well.

**NOTE:** The magazine may be inserted with the bolt carrier assembly open or closed.



3. Push upward until the magazine catch (L-15) engages and holds the magazine. Pull downward on the magazine slightly to make sure that the magazine catch holds.
4. If the bolt is open, grasp the charging handle (B-12) with the right hand. Pull it to the rear thus disengaging the bolt catch. Then release the charging handle. A round will be stripped from the magazine and loaded into the chamber.

If the bolt is closed when the magazine is inserted, pull the charging handle (B-12) fully to the rear and release it.

**⚠ CAUTION: DO NOT "RIDE" THE CHARGING HANDLE FORWARD. IF THE CHARGING HANDLE IS EASED FORWARD FROM THE OPEN POSITION, THE BOLT MAY FAIL TO ROTATE AND FULLY LOCK, AND THEN THE RIFLE CANNOT FIRE. IF THE BOLT FAILS TO GO ALL THE WAY FORWARD, PUSH FORWARD ON THE CHARGING HANDLE.**

The rifle is now loaded and ready to fire.

5. Set the safety (L-5) to "FIRE." Aim through the sights at the target and draw the trigger smoothly to the rear.

**NOTE:** The WK180-C is designed to use AR-15 magazines. Variations in both magazines and rifles may cause the bolt carrier to rub on the magazines feed lips. If the contact causes sluggish operation, remove a small amount of metal from the rubbed (shiny) area of the feed lips.



**CAUTION: DO NOT REST THE RIFLE ON ITS MAGAZINE WHEN YOU ARE LOADING OR FIRING IT. DOING SO CAN FORCE THE MAGAZINE UP INTO THE RIFLE, REDUCING THE RELIABILITY OF FEEDING CARTRIDGES.**

## 10. CLEARING / UNLOADING THE FIREARM

**⚠ WARNING: ALWAYS ASSUME ALL FIREARMS ARE LOADED. ANYTIME YOU HANDLE A FIREARM, YOU SHOULD IMMEDIATELY INSPECT IT TO ASSURE THAT IT IS COMPLETELY UNLOADED.**

**⚠ WARNING: IF YOU KNOW NOTHING ELSE ABOUT YOUR KODIAK DEFENCE INC. FIREARM, YOU MUST KNOW HOW TO UNLOAD IT AND CLEAR IT TO MAKE IT SAFE.**

1. Place the safety (L-5) on “SAFE”.

**NOTE:** If the firearm is not cocked, the safety cannot be set on “SAFE”.



2. Remove the magazine by pressing the magazine catch button (L-15) and pulling the magazine down out of the receiver.



**⚠ CAUTION: THE MAGAZINE MAY FALL FREE WHEN THE MAGAZINE CATCH IS PRESSED. DON'T ALLOW THE MAGAZINE TO FALL ONTO A HARD SURFACE. DOING SO MAY DAMAGE THE MAGAZINE.**

3. Extract the cartridge (if any) from the chamber. To extract a cartridge, pull the bolt fully to the rear. If there is a cartridge in the chamber, it should be extracted and ejected from the firearm.

4. To lock the bolt open, pull the charging handle rearward, reach into the rear of the magazine well, and press the tab of the bolt catch (L-7) upward with a finger. Then ease the bolt forward until the bolt catch stops it.



5. Look into the chamber to assure that it does not contain a cartridge.

**⚠ WARNING: NEVER ASSUME THAT THE CHAMBER IS EMPTY UNTIL YOU HAVE VISUALLY EXAMINED IT AND SEE THAT IT IS EMPTY.**

6. Empty all remaining cartridges out of your magazines.

**⚠ WARNING: THE STEPS IN UNLOADING YOUR FIREARM MUST BE FOLLOWED IN THE EXACT ORDER GIVEN. THE MAGAZINE MUST BE REMOVED BEFORE THE CHAMBER IS INSPECTED. IF YOU CLEAR THE CHAMBER BEFORE REMOVING THE MAGAZINE, YOU MIGHT ACCIDENTLY REMOVE ONE CARTRIDGE FROM THE CHAMBER AND THEN, UPON CLOSING THE BOLT, CHAMBER ANOTHER CARTRIDGE FROM THE MAGAZINE. THE FIREARM WILL STILL BE LOADED. REMEMBER THAT A CARTRIDGE IN THE CHAMBER CAN STILL BE FIRED EVEN AFTER THE MAGAZINE IS REMOVED.**

## 12. DISASSEMBLY

**⚠ WARNING: ALWAYS UNLOAD YOUR FIREARM BEFORE CLEANING, LUBRICATION, DISASSEMBLY, OR REASSEMBLY.**

**⚠ WARNING: ALWAYS WEAR SAFETY GLASSES WHEN DISASSEMBLING, MAINTAINING, OR ASSEMBLING YOUR FIREARM. IN PARTICULAR, THE OPERATING SPRING IS UNDER HIGH COMPRESSION. IF IT SLIPS FROM YOUR GRASP, IT COULD CAUSE INJURY.**

**⚠ WARNING: USE CARE OPENING THE ACTION: SWING THE UPPER RECEIVER AND BARREL GROUP DOWN TO DISASSEMBLE AND CLEAN THE RIFLE. KEEP YOUR FINGERS AWAY FROM THE FRONT OF THE RECEIVER WHEN LOWERING THE BARREL TO PREVENT PINCHING IT BETWEEN THE RECEIVER AND HANDGUARD.**

### 12.1 OPEN THE ACTION

1. Push a cleaning rod or cartridge tip into the dismount notch at the top of the lower receiver and push the guide rod assembly (B-18) forward approximately ½ inch. This will allow the guide rod assembly to clear the rear of the receiver and the rifle will swing open.



**⚠ CAUTION: DO NOT ALLOW THE RIFLE TO DROP OPEN. THE PIVOT PIN AREA MIGHT BE DAMAGED. IF THE HANDGUARD STRIKES THE RECEIVER WITH TOO MUCH FORCE.**

2. Release pressure gradually on the guide rod assembly to prevent the recoil springs from propelling the guide rod assembly out of the receiver.



3. Pull the charging handle (B-12) to the rear, into alignment with the enlarged rear section of the charging handle track in the receiver. Remove the charging handle. The guide rod assembly, guide rod springs and bolt carrier assembly may then be allowed to slide out of the upper receiver. It shouldn't be necessary to separate the upper and lower receivers during normal cleaning.



4. Remove the bolt carrier assembly, guide rods, and guide rod springs.





An exploded view diagram of a mechanical assembly, showing 10 numbered parts arranged horizontally. The parts are:

- 1. A small rectangular plate with a central hole.
- 2. A long, thin rod with a threaded end and a flange.
- 3. A coiled spring.
- 4. A large, rectangular block with a central slot.
- 5. A small, cylindrical component.
- 6. A small, cylindrical component.
- 7. A small, cylindrical component.
- 8. A small, rectangular plate with a central hole.
- 9. A small, rectangular plate with a central hole.
- 10. A small, rectangular plate with a central hole.

- 25

### **12.3 UPPER RECEIVER:**




1. Removal of the handguard (U-12) isn't necessary for removing the piston system, but may ease the process, especially if the piston or related components are fouled. To remove the handguard (U-12), unscrew the button head cap screws (U-13) at the barrel nut and slide handguard forward until free of barrel.  
Note: a sectioned handguard shown in image for clarity
2. Remove the socket head cap screw (U-3) at the front of the gas block (U-1).
3. Remove the piston cup (U-2) by tilting the rifle forward slightly and catching it as it slides out of the gas block. Note: excessive fouling may cause the cup to stick in the block, requiring forward pressure on the piston rod to remove it.
4. Remove the piston rod (U-4) through the front of the gas block. The piston spring (U-5) may or may not follow the rod through the gas block, depending on the amount of fouling in the gas block.

**NO FURTHER DISASSEMBLY OF THE FIREARM IS REQUIRED.**

## 13. MAINTENANCE

 **WARNING: ALWAYS UNLOAD YOUR FIREARM BEFORE CLEANING LUBRICATION, DISASSEMBLY, OR REASSEMBLY.**

 **WARNING: DO NOT APPLY LUBRICANT OR PRESERVATIVE TO YOUR AMMUNITION. DOING SO MAY CAUSE THE CARTRIDGE TO PARTIALLY MALFUNCTION, LEAVING THE BULLET LODGED IN THE BORE, CREATING A BORE OBSTRUCTION.**

 **WARNING: LEAD MAY BE PRESENT IN THE FOULING OF A DIRTY FIREARM. AVOID CONTACT WITH IT, AND CLEAN HANDS AFTERWARD TO AVOID INGESTING LEAD.**

 **CAUTION: NEVER MIX TWO OR MORE BORE CLEANING SOLVENTS. SOME COMBINATIONS OF SOLVENTS PRODUCE ACIDS THAT MAY DAMAGE THE FIREARM.**

### 13.1 CLEANING LUBRICANTS AND LUBRICATION

Based on our experience we recommend the cleaning and lubrication products manufactured by Bore Tech. They have a specialised carbon remover ideal for cleaning the gas system and a copper cleaner for the bore; alternatively use Bore Tech Eliminator for cleaning both the gas system and gas piston. For lubrication we recommend Bore Tech Friction Guard XP gun oil, use very sparingly on the gas system but generously on the bolt and bolt carrier, paying particular attention to the cam pin and guide rods. For the first 1,000 rds in a new rifle we recommend paying particular attention to lubrication, as this will enhance the longevity of your rifle.

In addition to cleaning solvents and lubricants, the basic cleaning equipment you will need includes a cleaning rod, brass bore brush, chamber brush, toothbrush, patches, and the most important item: a lint-free cloth.

The rifle should be cleaned and lubricated at the end of each day's use, or when exposed to an excessive amount of dirt, grit or other foreign matter and/or water. For most reliable continued operation, all surfaces should be protected by a very light film of oil. Use small amounts of light oil for extremely low temperature.


## 14. REASSEMBLY

### 14.1 REASSEMBLY


 **WARNING: ALWAYS UNLOAD YOUR FIREARM BEFORE CLEANING, LUBRICATION, DISASSEMBLY, OR REASSEMBLY.**

To reassemble your WK180-C, merely reverse the disassembly procedure.

New style, screw-in charging handles should be hand tightened. Then using a tool inserted into the torque holes, turned an additional 1/8 rotation.

 **CAUTION: UPON REASSEMBLY, BE SURE THAT THE BOLT IS EXTENDED FULLY FORWARD IN THE CARRIER. PAY PARTICULAR ATTENTION NOT TO BUMP THE BOLT AND MOVE IT TO THE REAR WHEN INSERTING THE BOLT ASSEMBLY INTO THE UPPER RECEIVER.**

 **CAUTION: THE HAMMER MUST BE IN THE COCKED POSITION TO CLOSE THE RIFLE.**

 **CAUTION: BE CAREFUL THAT SMALL PARTS ARE NOT LOST DURING DISASSEMBLY/ASSEMBLY; PARTICULARLY ASSURE THAT THE FIRING PIN SPRING IS INSTALLED. ASSEMBLY WITHOUT THIS SPRING COULD CAUSE INADVERTENT FIRING OF THE CARTRIDGE IF A PRIMER WAS OVERLY SENSITIVE DUE TO INERTIA IMPACT OF THE FIRING PIN UPON BOLT CLOSURE.**

## 14.2 FUNCTIONAL CHECK

1. Pull the charging handle (B-12) to the rear and release it.



2. Place the safety (L-5) on “SAFE”.  
Squeeze the trigger (L-16).  
The hammer (L-10) should NOT fall.



3. Place the safety (L-5) on “FIRE”.  
Squeeze the trigger (L-16) and hold it there.  
The hammer (L-10) should fall.  
Pull the charging handle (B-12) to the rear and release it.  
Then release the trigger. You should hear a click as you release the trigger.  
Squeeze again; the hammer should fall.

**EMAIL KODIAK AT SERVICE@KODIAKDEFENCE.COM IF YOUR RIFLE FAILS  
EITHER TEST.**

## 15. TROUBLESHOOTING

PROBLEM	CHECK FOR	WHAT TO DO
WON'T FIRE	Safety on "SAFE"	Put it on "FIRE".
	Improper assembly of firing pin	Assemble correctly NOTE: the retaining pin goes behind large shoulder of firing pin.
	Too much oil around firing pin	Clean with pipe cleaner.
	Defective ammunition	Remove and discard.
	Too much carbon on firing pin or firing pin recess	Clean.
BOLT WON'T LOCK	Bolt not fully locked.	Extract cartridge, clean area.
	Dirty bolt	Clean.
	Burred or broken bolt	Contact Kodiak Defence Inc..
	Ejector stuck	Contact Kodiak Defence Inc..
	Dirt, corrosion, or carbon buildup in barrel locking lugs	Clean lugs.
WON'T EXTRACT	Broken extractor spring	Replace.
	Inner spring or reinforcement ring missing from extractor spring	Replace.
	Dirty, corroded, or reloaded ammunition	Remove and discard.
	Carbon in chamber	Clean chamber.
	Frozen or worn extractor	Remove and clean.
	Restricted movement of bolt carrier assembly	Remove, clean and lubricate.

## **TROUBLESHOOTING (CONTINUED)**

<b>PROBLEM</b>	<b>CHECK FOR</b>	<b>WHAT TO DO</b>
WON'T FEED	Dirty, corroded, or reloaded ammunition	Remove and discard.
	Dirty or defective magazine	Clean and lubricate or replace.
	Too many rounds in magazine	Remove excess rounds.
	Magazine not fully seated	Push magazine fully home.
	Short recoil	See below.
DOUBLE FEED	Defective magazine	Replace
WON'T CHAMBER	Dirty corroded or defective ammunition	Remove and discard.
	Ejector stuck	Clean and oil.
	Carbon in chamber	Clean.
SHORT RECOIL	Carbon or dirt in gas system.	Clean.
	Weak or reloaded ammunition	Replace with factory fresh ammunition.
	Dirty rifle	Clean.
	Improper lubrication	Lubricate generously
BOLT FAILS TO LOCK OPEN AFTER LAST ROUND	Defective magazine	Replace.
	Dirty or corroded bolt catch	Clean or replace.
SAFETY BINDS	Needs oil	Lubricate.
	Dirt or sand under trigger.	Clean.

## **TROUBLESHOOTING (CONTINUED)**

<b>PROBLEM</b>	<b>CHECK FOR</b>	<b>WHAT TO DO</b>
<b>BOLT CARRIER “HUNG UP”</b>	Round jammed between bolt and charging handle and/or double feed	<ol style="list-style-type: none"><li>1. Remove magazine.</li><li>2. Push in on bottom of bolt catch.</li><li>3. Bang rifle butt on ground, bolt should shift to rear.</li><li>4. While bolt is held to rear, round should fall out through magazine well.</li></ol> <p>NOTE: If this procedure fails, use a cleaning rod to push bolt fully to the rear through the ejection port.</p>



## 16. WARRANTY, SERVICE, AND SUGGESTIONS

Specific warranty provisions for your Kodiak Defence Inc. firearm are shown on the warranty card shipped with your new firearm. Be sure to keep your sales receipt. **THE WARRANTY WILL ONLY BE HONoured WITH A COPY OF THE DATED SALES RECEIPT.**

If no sales receipt is available, all work will be billed at shop rates. Custom work will be billed at Kodiak Defence Inc.'s shop rates, as will work on firearms submitted with no warranty problem existing. Shipping to and from Kodiak Defence Inc. is the owner's responsibility, except that KODIAK DEFENCE INC. will return the firearm to the customer shipping prepaid if the return was covered under warranty.

Returns for any reason will NOT be accepted without a Return Merchandise Authorization (RMA) number issued by Kodiak Defence. Please email [service@kodiakdefence.com](mailto:service@kodiakdefence.com) to receive your RMA number. After you receive your RMA number, print it on the outside of the box and include a short note in the box. The note should include the RMA number, your name, address, email, phone number, the model and serial number of the firearm you're returning, and a detailed explanation of the problems that you're having with the firearm.


Remove any accessories (scope, scope mount, sling, bipod, cleaning equipment, etc.) that don't pertain to your problems before you send the firearm in. If you have any functional problem with the firearm, do send the magazines with it.

Firearms that you wish to return for warranty or out-of-warranty repair may be returned directly to Kodiak Defence. Before seeking warranty service: use the troubleshooting guide in this Operator's Manual to attempt to solve the problem, perform all instructed maintenance, and assure that ammunition and magazines are correct and in good condition. **Shop rates plus the cost of return shipping will be applied if no covered defect is found.**

Include a note explaining, in as much detail as possible, the nature of the problem or service needed. The note should include the RMA number, your name, address, email, phone number, and the reason for return. Keep your shipping receipt and the serial number of the firearm for your records in case of loss in shipment.

 **WARNING: MAKE ABSOLUTELY SURE THAT THE FIREARM IS UNLOADED!!!**

 **WARNING: NEVER SHIP LIVE AMMUNITION WITH ANY FIREARM THAT YOU ARE RETURNING TO KODIAK DEFENCE INC. FOR SERVICE.**

 **WARNING: IT IS THE OWNER'S RESPONSIBILITY TO ASSURE THAT ANY PARTS THAT ARE PURCHASED FROM KODIAK DEFENCE INC. ARE CORRECTLY FITTED AND INSTALLED. IMPROPER FITTING OR INSTALLATION MAY RESULT IN INJURY, DEATH, OR DAMAGE/MALFUNCTION OF THE FIREARM.**

A copy of the owner's manual for any Kodiak Defence Inc. firearm is available free in the Library on Kodiak Defence Inc.'s website or may be obtained free in hard copy by contacting Kodiak Defence Inc..

Additional technical information can be found in Technical Notes in the Library section of Kodiak Defence Inc.'s website.