

# MARCOLMAR FIREARMS

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## AVTOMAT KALASHNIKOVA AKS-74 PARATROOPER MANUAL

Model: NDS-2SF

Assembled For MarColMar By:

**IN RANGE C2 – Troy Sellars**

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## \*\*\* IMPORTANT SAFETY NOTICE \*\*\*

**BEFORE YOU OPERATE THIS FIREARM YOU MUST READ AND UNDERSTAND THIS MANUAL AND BE FAMILIAR WITH ITS OPERATING FEATURES!** Owning a semi-auto military style rifle carries great responsibility to ensure the safety of not only you, but those shooting with you, and those within the potential striking distance of a round. **SO READ THE MANUAL AND FAMILIARIZE YOURSELF WITH THE FIREARM'S OPERATION BEFORE ATTEMPTING TO SHOOT, CLEAN, OR DISASSEMBLE THE RIFLE.**

**SHOOTING IS AN INHERENTLY DANGEROUS ACTIVITY - FIREARMS CAN CAUSE SERIOUS INJURY OR DEATH. THIS IS EVEN MORE TRUE IF YOU ARE NOT KNOWLEDGEABLE ABOUT THE OPERATION AND FEATURES OF YOUR FIREARM OR IF THEY ARE HANDLED IN AN UNSAFE MANNER. BY SHOOTING THIS FIREARM THE OPERATOR ASSUMES FULL RESPONSIBILITY FOR THEIR ACTIONS, THE ACTIONS OF OTHERS ALLOWED TO USE OR HAVE ACCESS TO THE FIREARM, AND THE SAFETY OF OTHERS WHO MAY BE PARTICIPATING OR EVEN UNAWARE OF THE SHOOTING ACTIVITY. YOU ARE RESPONSIBLE FOR EVERYONE WHEN YOU OWN A FIREARM.**

**PREVENT ACCESS TO THIS FIREARM BY CHILDREN AND/OR UNAUTHORIZED PARTIES! KEEP IT LOCKED AWAY AND UNLOADED WHEN NOT IN USE. SEVERE PENALTIES EXIST IF A CHILD OBTAINS AND IMPROPERLY USES A FIREARM, YOU MAY BE HELD FINANCIALLY RESPONSIBLE AND EVEN BE SENT TO PRISON.**

**WE RECOMMEND ONLY NEW, COMMERCIALY AVAILABLE AMMUNITION BE USED IN THIS FIREARM. SOME SURPLUS AMMUNITION MAY BE FAULTY OR EVEN DANGEROUS. WE ARE NOT RESPONSIBLE FOR DAMAGE OR INJURY AS A RESULT OF USING FAULTY, NON-STANDARD OR REMANUFACTURED AMMUNITION OR THE CORROSIVE EFFECTS OF COM-BLOC AMMUNITION ON THE FIREARM.**

**DO NOT MODIFY OR CHANGE THIS FIREARM. THE SYSTEMS HAVE BEEN DESIGNED IN A CERTAIN WAY TO BE SAFELY USED BY THE OPERATOR. WE ARE NOT RESPONSIBLE FOR ANY DAMAGE OR INJURY DUE TO ANY MODIFICATION OR CHANGE NOT MADE BY THE ORIGINAL MANUFACTURER.**

MarColMar Firearms LLC and IN RANGE C2 are not responsible for any accidents, injuries, damage or death related to safe or unsafe handling, improper actions, or unfamiliar operation on the part of the user of this firearm. Don't take risks – thoroughly familiarize yourself with the safeties and features of the AKS-74. **IF YOU ARE UNSURE – STOP – MAKE THE FIREARM SAFE – AND CONSULT THE MANUAL OR CONTACT US! THIS MANUAL SHOULD ALWAYS ACCOMPANY THE FIREARM AND BE TRANSFERRED WITH IT IN THE EVENT OF A CHANGE OF OWNERSHIP.**

### **GENERAL SAFETY:**

Safety is **EVERYONE'S** concern. We want to ensure that you, your AKS-74, and anyone who may be close while firing, or around the gun while stored, is always safe. **DON'T GIVE THE ANTI-GUNNERS ANYTHING TO TALK ABOUT!** Ensure the firearm is always secured and follow the NRA's Rules of Safety:

1. **TREAT EVERY FIREARM AS IF IT WERE LOADED AT ALL TIMES.**
2. **ALWAYS KEEP THE GUN POINTED IN A SAFE DIRECTION.**
3. **KEEP YOUR FINGER OFF THE TRIGGER UNTIL READY TO SHOOT.**
4. **ALWAYS CARRY YOUR FIREARM IN A MANNER SO NO ONE WOULD BE HURT IF YOU STUMBLED OR FELL.**

**CONGRATULATIONS ON YOUR PURCHASE OF OUR AKS-74!** We are confident that this limited run of AKS-74 Sidefolders will be one of the highlights of your military firearms collection. MarColMar and IN RANGE have taken great care in the design, construction and quality of production with this firearm. We know you'll be pleased to own, display, and shoot the AKS-74. You too will become a believer in Kalashnikov's simple yet incredibly effective design.

Just like its original full-auto cousin, the AKS-74 was developed to be robust, simple, and easy to maintain. The original full-auto AK-47 and AK-74 series boasts the least number of parts of any modern assault rifle in the world, and its reliability is legendary. We wanted this semi-auto variant to be as true to the original as possible. To that end our initial production models have been extensively tortured and tested to ensure you have years of problem-free operation given proper maintenance and attention.

### The AKS-74 Collector's Package



1. AKS-74 Bulgarian Semi-Auto in 5.45x39
2. Original Bulgarian Bayonet
3. AKS-74 Sling (Condition & Type Vary)
4. 5.45x39 Stripper Clips and Guide
5. 5.45x39 Cleaning Kit
6. Oil Bottle (Type & Condition Varies)
7. Original Russian Purple AK-74 30 round Magazine
8. Bulgarian Drop Case
9. AKS-74 Semi-Auto Manual (Not Pictured)
10. Original Gas Piston (Not Pictured – included for collectibility)
11. Original Handguards (Not Pictured – included for collectibility)
12. Original Pistol Grip (Not Pictured – included for collectibility)

**Note:** Since these kits are all military surplus, condition of some accessories may vary. Actual use by former Soviet forces just adds to the collectability of your package contents. The actual AKS-74 was built using unissued parts. Due to varying offers during the production run, not all accessories shown above may be included in each kit. The Dealer reserves the right to include or remove components as they see fit throughout the production run.

The conversion of the AKS-74 into Semi-Auto form required the deletion and addition of components to eliminate the full-auto firing option, and comply with Section 922r for sale in the United States. This regulation states that a firearm may not have more than 10 imported parts from a specific list. Your AKS-74 is fully 922r compliant according to the following chart:

<b>Receiver:</b>	U.S. Made – D.C. Industries Nodak Spud – NDS-2SF	<b>Trigger:</b>	U.S. Made – G2
<b>Barrel:</b>	Original Bulgarian Chrome Lined – Imported	<b>Hammer:</b>	U.S. Made - G2
<b>Trunnion:</b>	Original Bulgarian – Imported	<b>Disconnecter:</b>	U.S. Made – G2
<b>Muzzle Attachment:</b>	Original Bulgarian – Imported	<b>Buttstock:</b>	Original Bulgarian – Imported
<b>Bolt:</b>	Original Bulgarian – Imported	<b>Pistol Grip:</b>	U.S. Made
<b>Bolt Carrier:</b>	Original Bulgarian – Imported	<b>Forearm:</b>	Original Bulgarian – Imported
<b>Gas Piston:</b>	U.S. Made	<b>Magazine:</b>	Original Russian – Imported
		<b>Follower:</b>	Original Russian – Imported
		<b>Floorplate:</b>	Original Russian – Imported

**Total Imported Parts w/ Foreign Made Magazine: 10 Compliant with 922r & Legal**

### AMMUNITION:

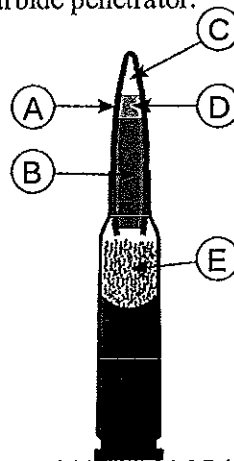
Your AKS-74 fires the incredibly effective 5.45x39 cartridge from a 30 round detachable magazine. This cartridge was developed by the former Soviet Union to replace its aging .30 caliber 7.62x39 round, made famous by the original AK-47 and its AKM variant. The objective was an attempt to increase lethality on the human body, reduce overall weight the soldier must carry, and thus increase the total number of rounds a soldier could carry in the field.

Design began in 1972 and the cartridge was introduced in 1974 after a revamp of the existing AK series to allow its use in the Kalashnikov design. The cartridge's 5.45 projectile has a gilding-metal-clad jacket. The unhardened steel core is covered by a thin lead coating which does not fill the entire point end, leaving a hollow cavity inside the nose. The base of the bullet is tapered to reduce drag and there is a small lead plug crimped in place in its base. These two design features move the center of gravity of the bullet to the rear, and the hollow tip allows for deformation when the bullet strikes anything solid, thus making the bullet yaw violently through tissue.

Ongoing developments to the cartridge have included a hardened steel rod in the projectile to better penetrate body armor. Later, a lead plug was introduced where the airspace was originally. Upon hitting a target the soft lead was pressed sideways by the steel penetrator, tearing the bullet jacket and increasing its size and lethality. Recent developments now include a new tungsten carbide penetrator.

#### 5.45 x 39:

<b>Case Type:</b>	Steel, rimless, bottleneck
<b>Bullet Diameter:</b>	5.60 mm (0.220 in)
<b>Neck Diameter:</b>	6.29 mm (0.248 in)
<b>Shoulder Diameter:</b>	9.25 mm (0.364 in)
<b>Base Diameter:</b>	10.00 mm (0.394 in)
<b>Rim Diameter:</b>	10.00 mm (0.394 in)
<b>Rim Thickness:</b>	1.50 mm (0.059 in)
<b>Case Length:</b>	39.82 mm (2.244 in)
<b>Overall Length:</b>	57.00 mm (2.244 in)
<b>Rifling Twist:</b>	255 mm (1 in 10 in)
<b>Primer Type:</b>	Berdan, Small Rifle
<b>Ballistic Perf:</b>	50 gr. (3.2 g) 5N7 FMJ @ 915 m/s (3,000 ft/s) = 1,316 J (971 ft-lbs)



- A. Projectile / Jacket
- B. Steel Core
- C. Hollow Point
- D. Lead Inlay
- E. Propellant Charge

**OPEN END OF THE MAGAZINE FEED LIPS!** When the magazine is fully loaded, insert the front of the magazine in the forward portion of the magazine well, then rock the magazine up and to the rear till the magazine latches on the Magazine Release Lever. Point the rifle in a safe direction and move the Safety Lever fully down to 'FIRE' position. Pull the bolt fully to the rear and release it. **DO NOT RIDE THE BOLT HANDLE FORWARD, IT SHOULD BE FULLY RELEASED.** The rifle is now loaded and ready to fire. If you are not immediately shooting, set the Safety Lever up to 'SAFE'.

**~~IF YOU DO NOT PLAN TO IMMEDIATELY SHOOT THE RIFLE, WE RECOMMEND YOU UNLOAD IT AND REMOVE THE MAGAZINE, WITH THE SAFETY SET TO ON. NEVER LEAVE A LOADED FIREARM UNATTENDED OR WITHIN THE REACH OF CHILDREN OR THOSE UNFAMILIAR WITH THE FIREARM'S OPERATION!~~**

#### **UNLOADING:**

With the AKS-74 pointed in a safe direction, place the Safety Lever in the 'SAFE' position, fully upward. Next remove the magazine by pushing the Magazine Release forward toward the magazine, and pulling down on the rear of the magazine, while rocking it forward. Then pull down to remove the magazine.

Next, while pointing the rifle in a safe direction, move the Safety Lever to the 'FIRE' or fully down position. Then pull the Bolt Handle fully to the rear, ejecting any unfired cartridges. **DO NOT RELEASE THE BOLT HANDLE UNTIL YOU HAVE VISUALLY INSPECTED THE CHAMBER AND BARREL TO ENSURE THE RIFLE IS UNLOADED!** Once complete, place the Safety Lever in the fully up or 'SAFE' position.

To unload the magazine, place your thumb on the base of the top cartridge and push it forward until it is release by the feed lips. Continue until all cartridges are removed from the magazine.

#### **FIRING:**

Starting with your AKS-74 magazine inserted, loaded, and with the Safety Lever fully upward set to 'SAFE', point the rifle at your target. When ready, move the Safety Lever to the fully down or 'FIRE' position. The rifle is now ready to fire.

Aim by aligning your eye down the notch in the rear sight, and centering the front sight post in the rear sight's notch. Place the centered sights on your target and squeeze the trigger. When the hammer is released it will drive the firing pin into the primer, igniting the cartridge. This will cause the bullet to travel down the barrel, and gas pressure bled into the action from the port in the barrel. The Kalashnikov's piston will then be driven to the rear by the pressure, extracting the spent cartridge, and ejecting it from the receiver. The bolt and carrier will travel to the rear and the disconnecter is reset, and the hammer cocked. The rearward movement of the bolt and carrier will continue until the power of the recoil rod and spring overcomes the movement, and drives them back forward. As they move forward, the bolt will strip another round out of the magazine and into the barrel ready to fire. The trigger is now reset and the hammer retained under spring pressure, ready for the trigger to be pulled again.

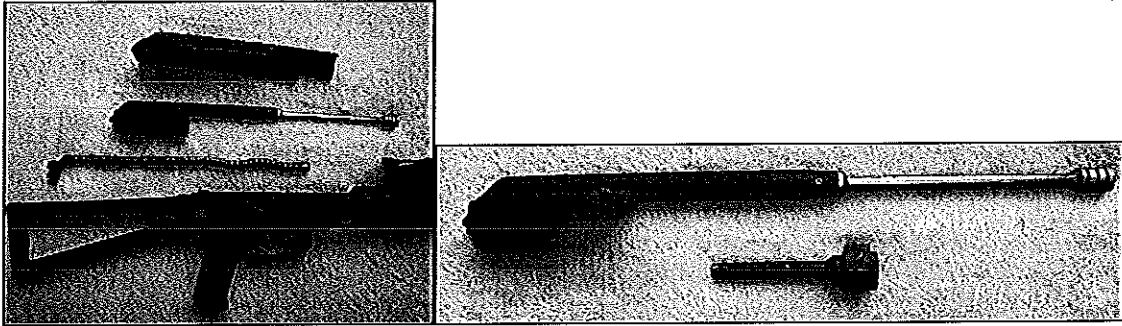
The process will continue in semi-auto (one round fired for every pull of the trigger) until the rounds in the magazine are expended. When the rifle is empty, unload the AKS-74 according to this manual's instructions, being sure to check the rifle visually to ensure it is unloaded. With the bolt in the forward position reset the Safety Lever to 'SAFE'.

#### **FOLDING STOCK:**

As a paratrooper rifle, the AKS-74 has a folding triangular Buttstock. This Buttstock folds to the left and is retained by the Buttstock Catch, which protrudes from the left side of the receiver. To fold the stock, simply push the Buttstock Release button and move the stock to the left. Once folded, push the buttstock down into the latch and it will be retained in the folded position.

With the Topcover removed, push the Recoil Rod Guide forward until it is released from the rear of the receiver. Make sure it is lined up, and pull it out of the Bolt Carrier. BE CAREFUL, IT MAY BE UNDER SOME TENSION.

With the Recoil Rod Guide removed, ensure the Safety Lever is in the full down or 'FIRE' position. Grasp the Bolt Handle and pull it fully rearward. When fully rear, lift up and remove the Bolt Carrier and Bolt from the Receiver. The Bolt may be removed from the Bolt Carrier by rotating the Bolt while pushing it to the rear or toward the rear of the Bolt Carrier. Once free just pull forward to remove from the Bolt Carrier.



If required, you may also remove the Gas Tube by rotating the Gas Tube Takedown Lever up, until the Gas Tube can be removed from the rifle by lifting up from the rear.

The AKS-74 is now fully disassembled. We do not recommend disassembling the rifle any further than this.

To reassemble the AKS-74, simply follow these instructions in reverse order.

### **CLEANING & LUBRICATION:**

We recommend using only top quality cleaning solvents and materials from reputable manufacturers. Each time the AKS-74 is shot, due to the corrosive nature of 5.45x39, it should be thoroughly cleaned and lubed. Once disassembled the AKS-74 is easy to clean and maintain. Clean all of the components removed from the firearm with a solvent like Hoppes #9 or similar. Use a brush to remove carbon, build-up and brass or steel shavings from the rounds, which are the result of them being loaded and expelled. Pay particular attention to the rails in the receiver, this is where dirt and grime like to accumulate.

The barrels are chrome-lined but do need to be cleaned. Due to the chrome lining you should **NOT** clean the barrel with a stainless steel bore brush – only use bronze! Make sure the barrel is thoroughly cleaned. Even with chrome lining, if your solvent does not dissolve corrosive salts we recommend first, a thorough and liberal spraying of Windex down the inside of the barrel itself to remove any corrosive agents. Then clean as normal using alternating bore brushes, wet patches and dry patches until dry patches come out clean. Complete with an oil soaked patch and one more dry patch.

Remember to clean the gas piston attached to the Bolt Carrier too. Avoid leaving large amounts of oil on the piston or in the gas tube. Once all the components are clean, they need to be lubricated with a commercial gun or spray oil. Remember this is a military firearm and it should be lubricated well. The Bolt Carrier, Bolt, Receiver Rails, Trigger / Sear areas should all be lubricated.

As a final measure, spray the entire firearm with a light coating of oil and wipe with a dry cloth. After reassembly pull the Bolt Handle back and let go several times and observe the function of the firearm. If it sounds right and looks right, it probably is!

**THANKS!**

**Thanks once again for your purchase of our Semi-Auto AKS-74.** MarColMar Firearms LLC and IN RANGE thanks you for supporting us, the firearms industry, and for keeping the military gun collecting and shooting passion alive. Pass it down to the next generation and be sure to tell them why it's important to exercise and protect this crucial liberty! Sincerely,

Dave Bane  
Owner – MarColMar Firearms

Troy Sellars  
Owner – IN RANGE

**IF YOU LIKE KALASHNIKOV'S OR RUSSIAN WEAPONS – MARCOLMAR ALSO OFFERS THE INCREDIBLE SEMI-AUTO PKM! CALL US AT 765-983-8200 OR LOG ON TO [WWW.MARCOLMARFIREARMS.COM](http://WWW.MARCOLMARFIREARMS.COM) TO FIND OUT MORE! SEE IT RUN ON YOUTUBE – SEARCH 'MARCOLMAR'**

