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#### A. SAFETY INFORMATION AND WARNINGS

## STATEMENT OF LIABILITY

This firearm may be classified as a dangerous weapon and is surrendered by KEL-TEC CNC INDUSTRIES INC. with the understanding that the purchaser assumes all liability resulting from unsafe handling or any action that constitutes a violation of any applicable laws or regulations. Firearms can cause serious injury and death. Safety must be the prime consideration of anyone who handles firearms. Always treat a firearm as though it were loaded. Always keep the muzzle pointed in a safe direction. In owning a firearm, you are responsible for the firearm's safety and security. Always secure firearms from children.



READ THESE INSTRUCTIONS AND WARNINGS CAREFULLY, BE SURE YOU UNDERSTAND THESE INSTRUCTIONS AND WARNINGS BEFORE USING THIS FIREARM.

This SAFETY, INSTRUCTION & PARTS MANUAL should always accompany this firearm and be transferred with it upon change of ownership or when the firearm is loaned or presented to another person. A copy of the SAFETY, INSTRUCTION & PARTS MANUAL is available FREE upon request and can also be downloaded from the internet at: <a href="http://www.keltecweapons.com">http://www.keltecweapons.com</a>

## READ AND CAREFULLY FOLLOW THESE WARNINGS AND INSTRUCTIONS

These warnings and instructions are provided to assure the safe functioning of the firearm. Failure to heed these instructions may result in improper functioning and serious injury.

Kel-Tec" firearms are designed to function reliably with proper care and knowledgeable use. Do not use your firearm unless you fully understand these instructions, and the safe operation of your firearm.

Only safe gun-handling habits will ensure the safe use of your firearm. This is your responsibility. Accidents are the result of violating the rules of safe gun handling noted below and common sense.

Before handling a firearm, understand its operation.

Never accept or pick up a firearm without checking the magazine and the chamber to assure the weapon is empty. Do not trust the extractor to clear the chamber; always look and feel.

Always make sure the **muzzle** is **pointed** in a safe direction at all times. Never point a firearm at anyone or anything you do not intend to shoot.

Ensure the barrel is free of obstructions prior to firing. Open the action and clear the firearm of all ammunition before checking the barrel of the **unloaded** firearm.

Keep your firearm unloaded when not in use. Never keep a loaded firearm in the home or vehicle. Never store a firearm with a cartridge in the chamber. Never store firearms and ammunition together, keep them locked up and away from children.

Never touch the trigger when working the action.

Never alter any components of your firearm.

Never take medications, drugs, or alcohol when handling firearms.

Never load or unload a firearm without assuring the muzzle is pointed in a safe direction.

Never load a firearm except immediately before shooting.

## SAFE GUN HANDLING IS YOUR RESPONSIBILITY



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

**Never discharge a firearm without proper shooting glasses and ear protection**. Never shoot at any water surface or any surface where a ricochet can occur.

Never shoot until you are sure of your backstop and what lies beyond it.

If the gun does not discharge after pulling the trigger, do not change the weapon's direction for at least 30 seconds; the weapon could be having a "hang fire", and the cartridge could go off when you do not expect it. After waiting 30 seconds, remove the magazine and remove the unfired case, while keeping the firearm pointed in a safe direction.

Always be aware of other people so that they cannot accidentally walk into the line of fire. When firing on a target range, be alert and follow the range officer's commands. Never cross obstacles such as fences or streams with a loaded firearm.

Do not allow a firearm to be used by individuals who do not understand its safe operation and the rules of safe gun handling.



WARNING: After firing several rounds, the exterior metal parts of the firearm get VERY hot and can cause severe burns if touched.

Be sure all accessories are compatible with the firearm and that the accessories do not interfere with safe operation of the firearm.

When transporting your firearm, be sure your firearm is unloaded and on SAFE.

This weapon passes Industry Standards for drop-test safety; this does not guarantee the weapon may not accidently discharge upon being dropped while loaded.

If you do not understand how to operate any of our products or have any questions about their safe handling, please write, call, or email us at:

# **KEL-TEC CNC INDUSTRIES INC**

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**Telephone Number: 321-631-0068** 

Toll free: 1-800-515-9983

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Website: http://www.keltecweapons.com
Email: customerservice@kel-tec-cnc.com

## B. OVERVIEW

# Description

The KSG™ is a dual-magazine select-feed 12-gauge pump action shotgun. The bullpup dual-magazine select-feed design provides the operator with a more compact layout, increased total capacity, and the option to rapidly switch between two magazines of ammunition.

The KSG™ features positive extraction and ejection, allowing it to be reliably fired in any shooting orientation. Loading and ejection are combined into a single port rearward of the grip assembly under the shotgun, enabling the KSG™ to be fired from both the dominant and non-dominant side.

Two integral MIL-STD-1913 Picatinny rails, located above the barrel and on the forend, come standard with the KSG™ for mounting accessories. Unloaded, the KSG™ maintains a center of gravity over the grip assembly to facilitate ease of handling.



Figure B-1: Side-View

## **Specifications**

Design Features		
Operating System	Pump Action	
Gauge	12	
Capacity	6+6+1 dual magazines, 3" shells	
Chamber	12-gauge 3.00" (76 mm)	
Barrel Length	18.50" (470 mm)	
Length of Pull	13.0" (330 mm)	
Forend Travel	4.1" (104 mm)	
Accessory Mount	MIL-STD-1913 Picatinny Rail	

Dimensions and Weight		
Total Length	26.1" (664mm)	
Total Width	2.2" (56 mm)	
Total Height	8.0" (204 mm)	
Width of Grip	1.2" (30 mm)	
Width of Forend	2.1" (54 mm)	
Width of Stock	2.1" (54 mm)	
Weight	6.9 lbs (3.1 kg)	

## Ammunition

The KSG<sup>™</sup> is chambered for 12-gauge 3" shells and may safely fire both lead and steel shot. Shells 2-3/4" and shorter are also safe to fire, but anything shorter than 2-3/4" should be thoroughly tested for reliable feeding and ejection. For reference, the chamber gauge and length is indicated on the grip of the shotgun.



WARNING: ALWAYS USE SHELLS OF THE CORRECT GAUGE AND LENGTH OR SHORTER. DO NOT USE NON-STANDARD AMMUNITION OR SHELLS WITH PRESSURES EXCEEDING SAAMI STANDARDS. FAILURE TO FOLLOW THIS WARNING MAY RESULT IN SERIOUS INJURY OR DEATH AND DAMAGE TO YOUR FIREARM.

Only use commercially available US-manufactured ammunition that meets SAAMI established standards. Inspect your ammunition to make sure it is clean, dry, and in good condition. Never use non-standard, reloaded or damaged shells. Any other ammunition is considered non-standard and its use may void the warranty on this firearm.

Kel-Tec<sup>™</sup> firearms are manufactured from high quality materials. They will provide a lifetime of service if properly maintained. However, all warranties, expressed or implied, are voided and Kel-Tec will not be liable for property damage or personal injury and consequential damages, if faulty, non-standard, or reloaded ammunition is used in any Kel-Tec<sup>™</sup> firearm.

# Sling Mounting

The KSG<sup>™</sup> comes equipped with forward attachment points on the left and right sides of the barrel assembly as well as a single rear attachment slot in the stock.



Figure B-2: KSG<sup>™</sup> Equipped with Kel-Tec<sup>™</sup> Sling

The different sling attachment points on the KSG<sup>™</sup> should be used to mount the included 1¼" wide nylon sling but will also accommodate aftermarket slings of the same width.

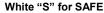
## C. OPERATING INSTRUCTIONS

## Safety

The KSG<sup>™</sup> features a cross-bolt safety located behind the trigger on the grip assembly. When the safety is activated, the cross-bolt blocks the sear from releasing and prevents the trigger from being pulled. Please note that the safety will not engage unless the hammer is cocked.

For right-handed users, the safety is generally pressed with the right thumb until a noticeable "click" is heard and the red letter "F" is visible on the safety. The safety is color coded and labeled to enhance visibility and hasten safety assessment.







Red "F" for FIRE



WARNING: NEVER TOTALLY RELY ON YOUR MECHANICAL SAFETY AS IT CAN FAIL OR UNINTENTIONALLY BE DISENGAGED. YOUR MECHANICAL SAFETY IS NOT A SUBSTITUTE FOR SAFE GUN HANDLING PRACTICES.

## **Loading Magazines**

- 1. Ensure your muzzle is pointed in a safe direction before loading.
- 2. Engage the safety by ensuring the white "S" is visible.
- 3. Ensure the forend is locked forward and not in the rearmost position.
- 4. Place magazine selector to the positions shown in Figure C-1 depending on desired loading configuration. The magazine selector indicates which magazine is selected for loading by "pointing" to the active magazine. For example: if the magazine selector is pointing left, the left magazine is available for loading. The magazine selector may also be placed in the middle position, which blocks both magazine tubes from loading and feeding.







Figure C-1: Magazine Selector Orientations

5. With thumb on the base of the round, insert the round into the loading/ejection port and slide the round into the magazine using your thumb as shown in *Figure C-2*.



Figure C-2: Loading a Shell into the Magazine Tube

# **Chambering from Magazine**

- 1. Ensure the magazine selector is oriented to feed from the desired magazine tube.
- 2. Press down on the action bar lock and maintain downward pressure to unlock forend.
- 3. Cycle the forend fully rearward and then fully forward to chamber a round.

# CAUTION: DO NOT HOLD THE FOREND BEHIND THE PICATINNY RAIL. DOING SO WILL SHORT STROKE THE ACTION AND PINCH YOUR HAND.



# Manual Chamber Loading

- 1. Ensure your muzzle is pointed in a safe direction before loading.
- 2. Engage the safety by ensuring the white "S" is visible.
- 3. Press down the action bar lock to unlock forend.
- 4. Slide the forend so that it is about a 1/2" from the rearmost position to prevent the lifters from elevating and blocking access to the chamber.
- 5. Place shell in chamber and slide the forend forward to chamber inserted shell.

## Firina

- 1. Load a shell into the chamber of the KSG<sup>™</sup> manually or from the magazine.
- 2. Aim at the target, taking notice of the target's backdrop.
- 3. Disengage the safety, taking notice of the red letter "F" that is visible on the safety.
- 4. Place trigger finger into trigger guard.
- When the trigger is pressed, the KSG will fire. Cycle the forend to eject the empty case and feed a new round, if a loaded magazine tube is selected.

# Unloading

- 1. Ensure your muzzle is pointed in a safe direction before unloading.
- 2. Ensure the forend is locked in the forward position.
- 3. Engage the safety by ensuring the white "S" is visible.
- 4. Press magazine selector to one side (either side).
- Rotate the KSG-331-CTG OUT down to release one or more shells in the selected magazine tube. NOTE: Shells will eject with some force from the magazine tube.
- Magazine is empty when the white magazine follower is visible from the ejection port, as shown previously in Figure C-1.
- 7. Switch the magazine selector to select the other magazine tube for unloading.
- 8. Repeat steps 5-6.
- With the forend in its rearmost position, always visually and tactually check the chamber to confirm the firearm is unloaded.

## D. DISASSEMBLY

For regular maintenance of the KSG<sup>™</sup>, it will be necessary that you become familiar with its disassembly. The following sections should be followed in sequential order and continued as needed depending on desired maintenance.



Figure D-1: KSG<sup>™</sup> General Disassembly



WARNING: ALWAYS ENSURE THE KSG" IS CLEAR OF ALL AMMUNITION BEFORE ATTEMPTING DISASSEMBLY. IF THE KSG" HAS BEEN FIRED, WAIT A SUFFICIENT AMOUNT OF TIME FOR THE COMPONENTS TO COOL BEFORE ATTEMPTING DISASSEMBLY.

## Removal of Grip Assembly

- 1. Place magazine selector to the center position.
- 2. Engage the safety by ensuring the white "S" is visible.
- 3. Remove the rear assembly pins adjacent to the ejection port located on the grip assembly and place them in the assembly pin retaining holes as shown in *Figure D-2*.



Figure D-2: Place Rear Assembly Pins in Retaining Holes

4. Remove the grip assembly by lifting the rear of the assembly directly upwards as shown in *Figure D-3*.



Figure D-3: Lift Grip Assembly Directly Upwards

## Removal of the Stock

1. Grip the stock as shown in Figure D-4 and pull rearward to remove.



Figure D-4: Pull Stock Rearward

 Move the forend to its rearmost position to gain access to the bolt. The bolt should now be resting in the receiver of the KSG<sup>™</sup> and can be easily removed by reaching in and lifting out the bolt as shown in *Figure D-5*.



Figure D-5: Remove Bolt from Receiver



# Separation of the Barrel and Receiver Assemblies

The barrel assembly is secured to the receiver assembly via two slotted magazine bolts located on the front of the KSG<sup>™</sup>. To remove these assemblies, the magazine bolts must be unscrewed using an object with a flat edge such as a quarter or the rim of a spent shell casing.

 Using your tool of choice, unscrew the magazine bolts at the same rate alternating between the two bolts a half-turn at a time. This procedure is illustrated in Figure D-6.



Figure D-6: Unscrew Magazine Bolts with Alternating 1/2 Turns

2. The KSG-334-CTG Stop Actuator must be pressed down for clearance as the barrel and receiver assemblies are separated, as shown in *Figures D-7 & D-8*.



Figure D-7: Press down CTG Stop Actuator and Slide Forend Away

 With the KSG<sup>™</sup> upside-down, simultaneously pull the barrel assembly and receiver assembly linearly apart as shown in *Figure D-9*.



Figure D-9: Pull Barrel Assembly Apart from Receiver Assembly

CAUTION: FURTHER DISASSEMBLY SHOULD ONLY BE PERFORMED BY A CERTIFIED GUNSMITH OR KEL-TEC CNC INC. ATTEMPTING FURTHER DISASSEMBLY COULD VOID YOUR WARRANTY.

## E. ASSEMBLY

# Joining of the Barrel and Receiver Assemblies

1. Ensure the bolt carrier is properly placed into the forend as shown in Figure E-1.



Figure E-1: Ensure Bolt Carrier is Locked into Forend

Orient the barrel and receiver assemblies as shown in Figure E-2 and push the two units together, ensuring the magazine bolt screw threads seat into the magazine plug screw threads.



Figure E-2: Join Barrel Assembly to Receiver Assembly

3. When joining the Barrel and Receiver Assemblies, the CTG Stop Actuator may need to be pressed down for clearance under the Mag Stop Actuator. This process is illustrated in *Figure E-3*.





Figure E-3: Slide Forend over CTG Stop Actuator to Secure Assemblies

- 4. Using your tool of choice, screw the magazine bolts into the magazine plugs at the same rate, alternating between the two bolts a half-turn at a time until both bolts firmly resist further tightening. This must be done because the bolts screw into the same piece and will prematurely bind if one bolt is tightened faster than the other.
- 5. To ensure the two assemblies are properly joined, visually check that no gap exists between the barrel extension and receiver, as shown in *Figure E-4*. Additionally, attempt to pull the barrel and receiver assemblies apart and press them together, checking for any travel. If there is any travel or gap present, the magazine bolts are not fully tightened and steps 1-2 should be repeated.





**Incorrect: Gap Present** 

**Correct: No Gap Present** 

Figure E-4: Ensure No Gap Exists Between Assemblies

## Insertion of the Bolt

- 1. Cycle the forend completely rearward before attempting to insert the bolt.
- 2. Insert the bolt onto the bolt carrier as shown in *Figure E-5*, first inserting the bolt on its side before rotating 90° to its upright position. The rear lip of the bolt should easily fit into the square cutout of the bolt carrier.







Figure E-5: Insert Bolt onto Bolt Carrier Sideways and Rotate 90°

- 3. Ensure the bolt is in the proper position by pushing the bolt completely forward. You can confirm this by checking to see if there is a gap between the mating surfaces shown in *Figure E-6*, which is composed of the bolt lip and bolt carrier cutout.
- 4. Move the forend completely forward to lock the bolt into place. You should hear a definitive "click" indicating the bolt is properly locking with the barrel extension.



Figure E-6: Push Bolt Fully Forward on Bolt Carrier

## Insertion of the Stock

- 1. Ensure the forend is completely forward before attempting to insert the stock.
- 2. Insert the stock as shown in *Figure E-7* and ensure the lifter axes are in place. It may be helpful to lift up on the firing pin during assembly.





Figure E-7: Lift Firing Pin while Inserting Stock

# Attaching the Grip Assembly

- 1. Place magazine selector to the center position.
- 2. Engage the safety by ensuring the white "S" is visible.
- 3. As shown in *Figure E-8*, ensure the forward part of the grip assembly is inserted under the grip catch and rotate the grip down.





Figure E-8: Move Forend Rearward and Insert Grip Assembly

- 5. Remove the assembly pins from their pin retaining holes and insert them into the assembly pin holes located on the grip assembly.
- After the KSG<sup>™</sup> is fully assembled, check the firearm for proper functioning by pressing down the action bar lock and cycling the action.

## F. CLEANING AND MAINTENANCE

## Maintenance

Your KSG<sup>™</sup> is a precision instrument and will provide a lifetime of faithful service if it is properly cleaned and maintained. It is recommended that you clean your KSG<sup>™</sup> after every shooting session or more frequently if needed. Be sure to unload your KSG<sup>™</sup> (see Unloading on pg. 8) before performing any cleaning or maintenance procedures.

CAUTION: NEVER USE AUTOMOTIVE BRAKE CLEANER OR ANY SOLVENT NOT DESIGNED FOR POLYMER FIREARMS. DOING SO MAY DAMAGE THE FIREARM AND VOID YOUR WARRANTY.

- 1. Disassemble the KSG<sup>™</sup> (see Disassembly on pg. 9).
- 2. Thoroughly clean all exterior sides of the bolt and receiver with solvent and brush.
- Brush the barrel bore and chamber with a good powder removing solvent and bore brush. Wipe the areas clean with patches or a swab.
- 4. Using a small brush dipped in solvent, remove all deposits from around the breech of the barrel and barrel extension, as well as all adjacent areas that have been subjected to powder or primer residue.
- 5. Clean the magazine tubes with solvent and brush if needed.

## Lubrication

After cleaning the entire gun, use a cloth to apply a light coating of high quality gun oil to all internal and exterior metal surfaces and wipe clean.

Manually cycle the action back and forth to check the function of the firearm. If any parts are damaged or badly worn or the firearm does not work correctly, the firearm should not be fired and should be returned to Kel-Tec for servicing immediately.



WARNING: DISCHARGING A FIREARM WITH OIL, GREASE, OR ANY OTHER MATERIAL EVEN PARTIALLY OBSTRUCTING THE BORE COULD RESULT IN SERIOUS INJURY OR DEATH AND SERIOUS DAMAGE TO YOUR FIREARM.

# **Troubleshooting**

Proper functioning of your firearm is directly related to proper maintenance and care as well as the quality of ammunition you use. If in the unlikely circumstance your KSG malfunctions, we have included a list of several suggested remedies below.

If the KSG<sup>™</sup> Fails to Fire:

You may be experiencing a misfire and should point the barrel of the KSG<sup>™</sup> in a safe direction, engage the safety by ensuring the white "S" is visible, and wait at least 30 seconds before fully cycling the action and ejecting the round.

Otherwise, ensure the action is fully forward. The KSG<sup>™</sup> is designed to prohibit firing out of battery to protect the user.

Double Feed:

A double feed may occur if there is a failure to extract. Engage the KSG<sup>™</sup>,'s safety and place the magazine selector to the middle non-feed position.

Rotate the KSG<sup>™</sup> to expose the ejection port and visually examine the malfunction. Depending on the orientation of the rounds, it is usually easiest to push the double-fed shell back into the magazine and cycle the action to clear the shell.

Otherwise, you must manually reach into the ejection port and remove the interfering shell by rotating it around the lifters as shown below.



Figure F-1: Clear Double Feed by Rotating Shell Around Lifters

Magazine Selector Jammed: The magazine selector will bind if a round is not fully loaded into the magazine tubes. Ensure all shells are completely loaded into the magazines.

# H. SERVICE, REPAIR, AND WARRANTY

This warranty is granted by Kel-Tec CNC Industries, Inc. P.O. Box 236009, Cocoa, FL 32923. This lifetime warranty is effective from the date of purchase and applies to the original owner of a Kel-Tec  $^{TM}$  firearm.

Kel-Tec<sup>™</sup> firearms are warranted to be free from defects in material and workmanship. Any such defects of which Kel-Tec receives written notice by the original owner, will be remedied by Kel-Tec without charge within a reasonable time after such notification and delivery of the product as provided below.

If your Kel-Tec<sup>™</sup> firearm should ever require service or repair please perform the following to ensure fast and reliable service:

- Include a copy of a bill of sale in the owner's name or a copy of ATF Form 4473 indicating date of purchase.
- Include a written copy of the model and serial number of the firearm and a description of the difficulty experienced and service desired.
- 3) Include your name, desired return address, and a number where we can reach you.
- 4) Also include a written list of any accessories in your shipment Kel-Tec will not be responsible for any item that was not listed and confirmed by Kel-Tec.
- 5) Be sure the firearm is completely unloaded and the shipping container is free of ammunition. It is against postal and commercial regulations to ship ammunition.
- 6) Securely package your Kel-Tec<sup>™</sup> firearm and ship (transportation charges pre-paid) to:

Kel-Tec CNC, Inc Service Department 1505 Cox Road Cocoa, FL 32926

It is recommended that shipments be insured by the owner, since Kel-Tec will accept no responsibility for loss or damage in transit.

Transportation and insurance charges for return to owner will be paid by Kel-Tec if the claim is covered by the warranty.

Under no circumstances shall Kel-Tec be responsible for incidental or consequential damages with respect to economic loss or injury or property damage, whether as a result of breach of express or implied warranty, negligence or otherwise. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Kel-Tec will not be responsible for defects resulting from careless handling, unauthorized or unsafe adjustments or modifications, non-standard, defective, or improper ammunition, corrosion, neglect, fire damage, water damage, theft, abuse, ordinary wear and tear, or unreasonable use.