

MESA TACTICAL

ASSEMBLY AND OPERATION GUIDE



SURESHELL SHOTSHELL CARRIERS FOR THE KEL-TEC KSG

Thank you for your purchase of the Mesa Tactical SureShell™ on-gun shotgun shell carrier. Our products are manufactured using the highest quality processes and materials, and should provide many years of reliable service.

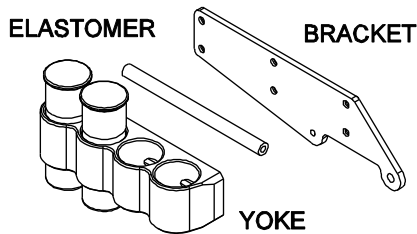
For best results, please read this entire manual before installing and using your SureShell shotshell carrier. If you have any questions, please call 775-333-9800 or e-mail support@mesatactical.com.

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SYSTEM CONCEPT

SureShell shotshell carriers are assemblies comprising an aluminum yoke and backing plate and a Santoprene® elastomer tube. The yoke features four to eight vertical bores .700" or .810" in diameter to accept 20-gauge or 12-gauge shotgun shells. The shells are securely retained by the elastomer tube interfering with the bores. In many cases, shells can be confidently retained in a brass down as well as a brass up configuration, though brass up is most secure.



The primary difference between one model of SureShell carrier and another, aside from capacity, is the backing plate. The backing plate is designed to mount the carrier assembly to a particular model of shotgun. Side-mount SureShell carriers for Remington and Mossberg shotguns use the trigger pin holes to secure the assemblies to the side of the receiver. Benelli M2 Tactical, Benelli M4/M1014, Benelli SuperNova Tactical, Kel-Tec KSG, Beretta 1301/A300 and some Mossberg 500/590 versions use the factory drilled and tapped holes on the top of the shotgun receiver for attachment and include integrated Picatinny rail for optic mounting.

SURESHELL FOR KEL-TEC KSG

The SureShell carrier yokes for the Kel-Tec KSG shotgun are mounted to a machined aluminum Picatinny rail that replaces the KSG's factory optics rail. Available configurations include:

- Six shot aluminum yokes mounted on both sides;
- Six shot polymer yokes mounted on both sides;
- No yokes, Picatinny rail.



Aluminum tabs up front on each side of the SureShell Carrier and Rail for the Kel-Tec KSG can accept a length of Picatinny accessory rail for mounting accessories like weapon lights or lasers.

The KSG's factory rail is attached to two mount pillars, front and back, with an M4 metric bolt at each end. The SureShell Carrier and Rail for the Kel-Tec KSG mounting system is slightly different. Once the factory rail is removed, a steel recoil block is installed on each of the mount pillars. In addition to a hole for a replacement M2 bolt, each recoil block also features a threaded hole at a 45° angle that accepts a set screw that is tightened into the mounting pillar. The aluminum SureShell and rail assembly is then fastened to the recoil blocks with four screws.



This arrangement is designed to provide a robust and secure mounting method for the loaded SureShell carrier, even under heavy recoil.

SANTOPRENE® ELASTOMER

The elastomer used to interfere with the shell bores and thus retain the shells in the SureShell shotshell carrier is made of tough Santoprene thermoplastic. We are required to publish the following message to comply with California's Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

ELASTOMER STIFFNESS

SureShell carriers are assembled with a black Santoprene elastomer tube with a shore value, or stiffness, of A64. This has proven to be optimal for most customers and in most situations. However, some customers require a stiffer elastomer and for those operators we have included an alternative white elastomer tube with a shore value of A73. The black elastomer tube can be swapped for the white one if additional shell retention is required.

CHANGING THE ELASTOMER

The SureShell carrier's elastomer can be changed at any time. This may be necessary due to excessive wear of the original, or perhaps to replace the elastomer with the white tubing mentioned above, or an alternative material that offers more or less interference (and thus secures the shotshell in the shell carrier more or less tightly). Replacement elastomers are available free of charge from Mesa Tactical, if needed.



Another form of maintenance that can be performed on the elastomer is to clean it periodically of grease or oil that may reduce its ability to securely retain shotshells.

The elastomer is accessed by removing the shell carrier from the shotgun, then unscrewing the yoke from the backplate (there are six screws). The elastomer can then be removed from the channel machined into the yoke, which can be clearly seen in the photo above.

OPERATION

The Mesa Tactical SureShell shotshell carrier is dramatically different from other shell carrier solutions, principally in the shell

retention method. This might require a revision in training methods.

Any operator adopting the SureShell shotshell carrier *must* train with the new system before ever using the weapon in a duty situation.

The shells in the SureShell shotshell carrier are very close together. Shells can often be more quickly and reliably removed from the SureShell shotshell carrier if they are twisted out. With practice, this can be accomplished quickly in a single fluid movement.

Note that the SureShell shotshell carrier is not designed for long-term storage of shells on the weapon. It is instead designed for professional use in which the shells are replaced in the carrier during armory checkout. Storing shells in the carrier over long periods can deform the elastomer, resulting in a degradation of the shell retention efficacy. However, if the shells are removed from the carrier for a few hours the elastomer will reform to its original shape.

INSTALLIATION ON THE KSG

Installing the SureShell Carrier and Rail for the Kel-Tec KSG is a very simple procedure and takes only a few minutes. Included with the SureShell assembly is the following hardware kit:

80125 Hardware for KSG shell carrier		
<i>Qty</i>	<i>Part no</i>	<i>Specification</i>
1	34007	2" Picatinny rail segment
2	47002	Picatinny rail socket head countersunk screw
1	47004	Button head cap screw hex key
4	47098	Slotted Mounting screw
4	47099	Mounting screw washer

4	47131	Button head cap screw (1/4 inch)
2	47400	Mounting screw for KSG recoil block
2	47401	Set screw for KSG rail
1	47402	Hex key for KSG recoil block screw
1	47403	Hex key for KSG set screw
2	47415	Threaded cleat for KSG rail

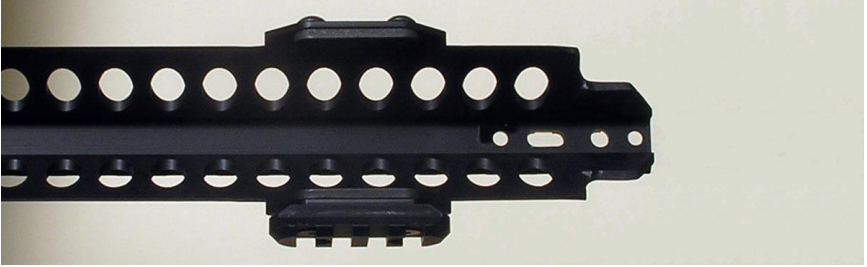
Because there are both metric and imperial standard fasteners in the package, it is easy to confuse the hex keys. This is a significant hazard, because a mismatched hex key can strip the tool or the bolt or both.

ASSEMBLY PREPARATION

Before installation of the SureShell Carrier and Rail for the Kel-Tec KSG on the shotgun, prepare the assembly by fitting one or more two inch accessory Picatinny rails to the front side tabs (once the SureShell carrier and rail is installed it is more difficult to attach an accessory Picatinny rail segment).

Accessory rails are screwed onto steel threaded backing cleats instead of nuts, which means the screws can be tightened from the outside without the need to hold a nut with a wrench. The short button head cap screws are provided simply to fill the holes in the accessory tab (and incidentally to keep the threaded cleat in a safe and handy location: installed on the shell carrier assembly).

One accessory rail is included with your package. An optional second two inch rail segment can be purchased SKU 90690 - Adapter Mount Standard Profile Picatinny Rail, 2 in



Once the accessory rails or button head cap screws are installed, the assembly is ready to be attached to the KSG shotgun.

KSG RAIL REMOVAL

Before beginning, ensure the KSG shotgun is unloaded and pointed in a safe direction.

The first step is to remove the factory optics fail from the KSG shotgun. **To reduce the risk of stripping the screw head or the hex key or both, be extremely careful to ensure the hex key is firmly seated in the screw socket before applying torque.**



Once the screws are out, remove the rail:



Behind the rear rail mounting pillar is a small plastic recoil lug. Remove this as well:



Put the rail, screws and recoil lug in a safe place.

ASSEMBLY INSTALLATION

loosely attach the two steel recoil blocks to the shotgun's rail mount pillars with the two M4 button head cap screws provided. Install them so that the angled threaded holes are rearward. Loosely thread the two set screws into the angled holes.

When this step is finished the recoil blocks will be subject to slight movement, but will not fall off the mounting pillars.



Place the SureShell assembly on the recoil blocks and secure it in place using the four slotted head mounting screws and four conical mounting washers.



Now fully tighten the M4 button head screws and the angled set screws.



Finally, go back and re-tighten all four of the slotted top rail mounting screws.



Once you have established that everything fits well together, we suggest you disassemble the SureShell Carrier and Rail for the Kel-Tec KSG and re-assemble it once again, putting a drop of blue or purple thread locker on each threaded fastener.

Continue to inspect the weapon for secure accessory attachment each time it is brought out for use or training.

SUPPORT

If you have any problems or questions, please feel free to contact Mesa Tactical for assistance at 775-333-9800 or support@mesatactical.com.

WARRANTY

Mesa Tactical warrants that all products are free from defective material and workmanship and, subject to the conditions set forth below, agrees to repair or replace any part of a product that proves defective by reason of improper workmanship or materials without charge for parts and labor.

In no event will Mesa Tactical be liable for damages, lost revenue, lost wages, lost savings or any other incidental or consequential damages arising from purchase, use or inability to use this product.

No express or implied warranty is made for Mesa Tactical product damaged by accidents, misuse, natural or personal disaster, or any unauthorized disassembly, repair or modification. Mesa Tactical's warranty covers only repair or replacement of defective Mesa Tactical products.



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