



MATHEWS HARMONIC DAMPER

Note: This manual is only a supplement to your firearm's owner's manual. It only addresses the Mathews Harmonic Damper.

IMPORTANT "SAFETY WARNINGS" — NOTE THE SYMBOL



THESE SAFETY WARNINGS ARE FOR YOUR PROTECTION AS WELL AS THE SAFETY OF OTHERS. DISREGARDING INFORMATION IN THIS MANUAL MAY RESULT IN SERIOUS INJURY OR DEATH.



Be certain this owner's manual is available for reference and is kept with this firearm if transferred to another party. If this manual is lost or misplaced, contact the Product Service Center for a free replacement copy.



After performing any work on your firearm such as cleaning, adjustments, disassembly or installation of any accessory, the firearm should be re-checked for proper functioning before firing live ammunition.



Firearms are complex mechanisms. Any modification, alteration, or improper fitting of parts may result in a dangerous malfunction, damage to the firearm and injury to the shooter and/or others nearby. The firearm's owner must accept full responsibility for the correct reassembly and functioning of the firearm after any disassembly or replacement of parts.



If you do not understand any of the material in this manual or have any questions, contact the Product Service Center or a qualified gunsmith.



Do not attempt to load, handle or use the firearm until you read and understand the information contained in its owner's manual. Before handling your firearm, you should learn how it operates and how to maintain it. This includes knowing its basic parts, how the manual safety and other safety features operate, how to safely open and close the action and how to safely load and unload ammunition from the firearm. Improper use and handling is dangerous and could cause serious injury or death to you or those around you. All users of the firearm must become thoroughly familiar with the instructions in this manual.

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Safety and safe firearms handling is everyone's responsibility.



As the owner of a firearm, you must undertake the full-time responsibility of safe firearms handling for your own safety and the safety of those around you:

- Keep all firearms and ammunition out of the reach of children.
- Store your firearms and ammunition separately.

- Never store a loaded firearm.
- Never leave a loaded firearm unattended.
- Never transport a loaded firearm in a vehicle.
- Unload your firearm when you have stopped shooting and when you have to climb a tree, fence, cross a slippery surface or have to transport it in a vehicle.
- Do not load your firearm before you are in a place where it is safe to shoot, and keep your finger off the trigger until you are on target and have decided to fire.
- Never shoot at water, rocks or any hard surfaces. Bullets may glance off such surfaces and cause injuries.
- Do not use alcohol or drugs before or while handling firearms.
- Do not touch the trigger while the safety button is being engaged or disengaged.



Always point the muzzle of your firearm in a safe direction, regardless of whether the firearm is loaded or unloaded. You should become thoroughly familiar with the function and operation of this firearm and the instructions supplied with it.



Always treat every firearm as if it is loaded. Give your firearm to someone with the action open (bolt fully rearward), and the safety button fully to the "ON" (SAFE) position, after you verify the firearm is unloaded. Insist on the same procedure when receiving a firearm from someone else. Learn the location of all the safety features of your firearm and how they operate.



Wear eye and ear protection when shooting. Shooting without proper ear protection can cause hearing damage. The use of eye protection during any type of shooting is important to protect your vision.



When using a firearm with mounted optics, maintain an adequate distance between the rear of the scope and your face at all times. Be certain the scope installation does not interfere with access to, or the proper functioning of the safety button.



We specifically disclaim any responsibility for damage or injury whatsoever occurring in connection with, or as a result of, the use of faulty, or non-commercially manufactured, or remanufactured or hand-loaded (reloaded) ammunition. Additionally, we disclaim any responsibility for damage or injury which results from any modifications or changes that are not a part of the firearm as delivered from the factory.



Learn to clean your firearm thoroughly and make certain no oil, grease or other materials are blocking the barrel. Obstructions of any kind can cause damage to the firearm resulting in personal injury.

Practice proper firearm maintenance and safety. Make sure all exposed metal surfaces are coated with a thin film of oil, especially after being exposed to damp weather. Do not plug the barrel or store in a fabric-lined case, which will absorb lubricants from the firearm. Before using after storage, follow complete instructions stated in this manual for re-familiarization with the firearm. A thorough inspection and function test should be performed before going into the field. Have your firearm periodically checked by a qualified gunsmith.

A note about the warnings and information contained in this manual:

We strongly suggest that you check with your local licensed retailer or state police for additional information concerning firearms ownership, or hunting or target shooting rules that may be required by local law or regulation. Since such rules and regulations are subject to change, local authorities are in the best position to advise you on such matters.

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TO REMOVE BUTTSTOCK:



Before making any buttstock changes, move the safety button fully rearward to the “ON” (SAFE) position and visually and physically check the chamber, elevator, and magazine tube to be certain the shotgun is unloaded. Also, be sure to keep the action open and the muzzle pointed in a safe direction. Refer to your firearm’s owner’s manual for additional safety and functional information.

- a) Remove the Mathews Harmonic Damper from the stock by pressing on its center from one side to the other through the rubber inserts (Fig. 1).



Fig. 1

- b) Remove the rubber inserts by compressing one edge towards the center hole as shown (Fig. 2).



Fig. 2

- c) Continue pressing while working around the edge of the hole in the buttstock. Pry the rubber inserts out when a gap is visible through the stock (Fig. 3). Repeat for the other side.



Fig. 3

- d) Using a Phillips-head screwdriver loosen the recoil pad screws until the recoil pad comes free (Fig. 4).



Fig. 4

- e) Using a ½" socket or a flat blade screwdriver engage and unscrew the stock bolt counterclockwise.



Do NOT attempt to load or fire the firearm without a buttstock or pistol grip attached. Doing so may result in damage to the firearm and injury to the shooter and/or others nearby.

TO ATTACH BUTTSTOCK:



Before making any buttstock changes, move the safety button fully rearward to the “ON” (SAFE) position and visually and physically check the chamber, elevator, and magazine tube to be certain the shotgun is unloaded. Also, be sure to keep the action open and the muzzle pointed in a safe direction. Refer to your firearm’s owner’s manual for additional safety and functional information.

- a) Insert the stock bolt, lock washer, and washer into the buttstock. Align the front of the buttstock with the back of the receiver as shown (Fig. 5). Using a $\frac{1}{2}$ ” socket or a flat blade screwdriver tighten the stock bolt until it is tight. Check the stock for looseness.



Note: Failure to use both washers may allow stock bolt to protrude too far into receiver, damaging the Trigger Group.



Fig. 5

- b) Align the recoil pad screws in the recoil pad with the back of the buttstock as shown (Fig. 6). Using a Phillips-head screwdriver tighten the recoil pad screws until snug. Check the recoil pad for looseness.



Fig. 6

- c) Install the rubber inserts by first compressing them as shown and lining the groove around the outside with the hole in the side of the buttstock. The open side of the rubber inserts should be facing out and the transparent shield towards the inside of the buttstock. With the grooves aligned press the rubber insert into the buttstock (Fig. 7), starting at the aligned grooves and working around in both directions. Press inward and downward on the baffles to ensure the groove is aligned all the way around (Fig. 8). Repeat for the other side.



Fig. 7



Fig. 8

- d) Check to make sure the rubber inserts are fully seated in the stock. If they are not (Fig. 9) press inward on the deformed portion of the rubber inserts as shown in Fig. 8 until they are seated (Fig. 10).



Fig. 9: Incorrectly Seated



Fig. 10: Correctly Seated

- e) Press the Mathews Harmonic Damper into the hole in the rubber inserts firmly until the ends are flush with both rubber inserts on the outside of the buttstock (Fig. 11). Once the assembly is completed, perform a function check per your firearm's owner's manual.



Fig. 11

TO CHANGE REMOVABLE COMBS



Before making any comb changes, move the safety button fully rearward to the “ON” (SAFE) position and visually and physically check the chamber, elevator, and magazine tube to be certain the shotgun is unloaded. Also, be sure to keep the action open and the muzzle pointed in a safe direction. Refer to your firearm’s owner’s manual for additional safety and functional information.

- a) Using a 5/32 inch Allen head wrench unscrew and remove the comb retaining screw found at the top center of the removable comb (Fig. 12).
- b) Place the desired comb into position. Insert the comb retaining screw and tighten until snug. **Do not overtighten** as this will damage the internal assembly components.



Fig. 12 Low Comb



Fig. 13 High Comb

SERVICE INSTRUCTIONS

Should your firearm, or any component of your firearm require service, kindly ship your entire firearm (please do not send components only), via your chosen carrier, postage paid (we do not accept C.O.D. shipments) following these instructions:



**Make absolutely certain your firearm is unloaded.
Do not send ammunition with your firearm.**

Remove all accessories from your firearm such as scopes, slings, swivels, mounts, etc.

Ship your firearm in a suitable container, packaging it securely to prevent parts from shifting and/or harm during shipping.

Include a note with a clear description of the service you wish us to perform, your complete return shipping address (no P.O. boxes please), your daytime telephone number and your e-mail address (if available). It is advisable to place your correspondence inside your shipping container when shipping.

SHIPPING ADDRESS

Product Service Center
Maverick Arms, Inc.
1001 Industrial Blvd.
Eagle Pass Industrial Park
Eagle Pass, TX 78853
Attn: Repair

If you have any questions, please contact us at 203-230-5300 or service@mossberg.com

TO ORDER PARTS

To order parts from our authorized Product Service Center, you can fax, phone, mail, or e-mail your order to us at one of the following numbers/addresses.

Fax Number: (830) 773-5893
Phone Number: (830) 773-9007
E-mail Address: service@mossberg.com
Mailing Address: Product Service Center
Maverick Arms, Inc.
1001 Industrial Blvd.
Eagle Pass Industrial Park
Eagle Pass, TX 78853
Attention: Order Department

Please provide your name, street address, your daytime phone number and e-mail (if available). We will need Model #, Serial #, Gauge/Caliber, Finish, Part # and Part Name. We have a \$7.50 (U.S.) minimum parts order charge. We accept most major credit cards, money orders, and bank drafts.

Service outside of the U.S.A.

For Mossberg firearm parts and service requirements outside of the United States, customers are requested to contact the closest Mossberg stocking dealer/distributor.

FIREARMS SAFETY DEPENDS ON YOU. MAKE NO MISTAKE ABOUT IT!

From the time an individual picks up a firearm, that individual shooter becomes a part of a system over which he has complete control. He is the only part of the system that can make a gun safe – or unsafe. Hunting and target shooting are among the safest of all sports. This booklet is intended to make them even safer – by re-emphasizing and reaffirming the basics of safe gun handling and storage and by reminding each individual shooter that he or she is the key to firearms safety. You can help meet this responsibility by enrolling in hunter safety or shooting safety courses. You must constantly stress safety when handling firearms, especially to children and non-shooters. Newcomers in particular must be closely supervised when handling firearms with which they may not be acquainted. Don't be timid when it comes to gun safety. If you observe anyone violating any safety precautions, you have an obligation to suggest safer handling practices, such as those in this booklet. Please read these rules carefully and follow the safety procedures outlined. Firearms safety is up to you. Make no mistake about it.

- 1. ALWAYS KEEP THE MUZZLE POINTED IN A SAFE DIRECTION**
- 2. FIREARMS SHOULD BE UNLOADED WHEN NOT ACTUALLY IN USE**
- 3. DON'T RELY ON YOUR GUN'S "SAFETY"**
- 4. BE SURE OF YOUR TARGET AND WHAT'S BEYOND IT**
- 5. USE CORRECT AMMUNITION**
- 6. IF YOUR GUN FAILS TO FIRE WHEN THE TRIGGER IS PULLED, HANDLE WITH CARE**
- 7. ALWAYS WEAR EYE AND EAR PROTECTION WHEN SHOOTING**
- 8. BE SURE THE BARREL IS CLEAR OF OBSTRUCTIONS BEFORE SHOOTING**
- 9. DO NOT ALTER OR MODIFY YOUR GUN, AND HAVE GUNS SERVICED REGULARLY**
- 10. LEARN THE MECHANICAL AND HANDLING CHARACTERISTICS OF THE FIREARM YOU ARE USING**

*Courtesy of
Sporting Arms and Ammunition Manufacturers' Institute, Inc.*