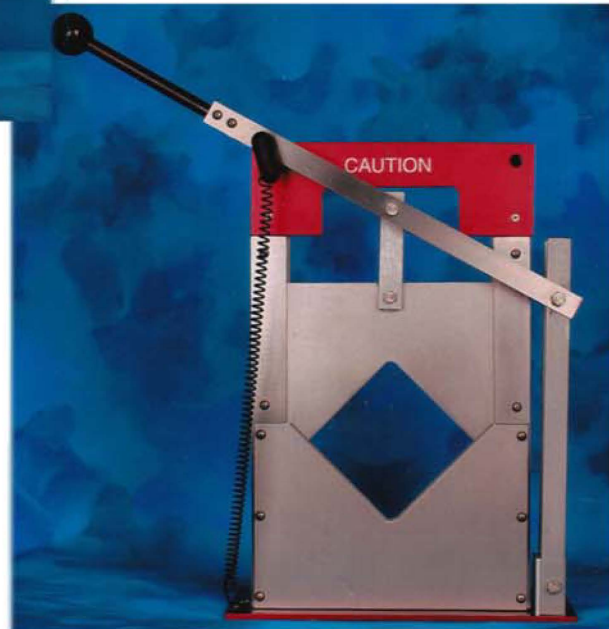
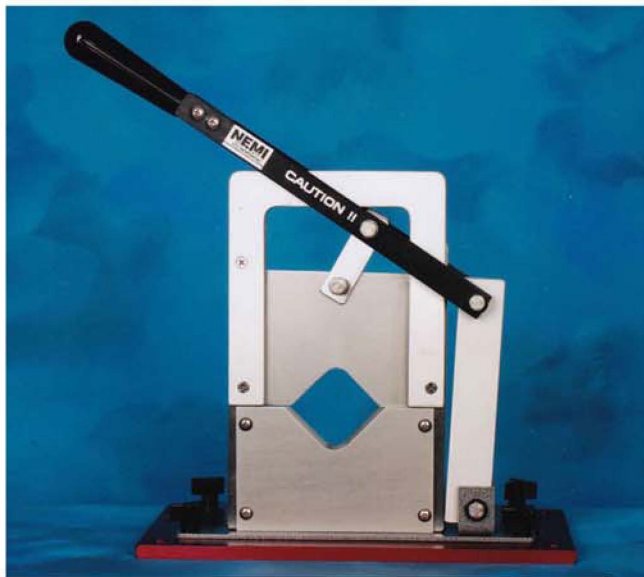


Lab Guillotines

Operator's Manual

Models 801-806



Your Distributor is:
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General Information

CAUTION

The NEMI Animal Guillotine is capable of severing limbs/heads and/or inflicting serious injury or death if used improperly.

Exercise extreme caution when using this device.

Warranty

NEMI Scientific warrants its guillotines for a period of three years from the date of purchase. At its option, NEMI Scientific will repair or replace the unit if it is found to be defective as to workmanship or material. This warranty does not extend to damage resulting from misuse, neglect or abuse, normal wear and tear, or accident. The warranty extends only to the original customer purchaser.

IN NO EVENT SHALL NEMI SCIENTIFIC BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR USE, OR OF ANY OTHER NATURE.

If a defect arises within the three-year warranty period, promptly contact **NEMI Scientific, Inc., 51 Main Street, Medway, MA 02053, telephone/fax number (508) 533-2436**. Goods will not be accepted for return unless an RMA (returned materials authorization) number has been issued by our customer service department. The customer is responsible for shipping charges. Please allow a reasonable period of time for completion of repairs, replacement and return. If the unit is replaced, the replacement unit is covered only for the remainder of the original warranty period dating from the purchase of the original device.

Repair Facilities and Parts

NEMI Scientific stocks replacement and repair parts. When ordering, please describe parts as completely as possible, preferably using our part numbers. If practical, enclose a sample or drawing. We offer a complete repair and reconditioning service at our factory.

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General Safety Summary

Please read the following safety precautions to ensure proper use of your guillotine. To avoid potential hazards and product damage, use this product only as instructed in this Manual. If the guillotine is used in a manner not specified by the manufacturer, serious injury or death could result. Contact NEMI Scientific if you do not understand any of the instructions or warnings in this Manual.

Warning!

General Safety

Because the guillotine is an extremely sharp cutting tool designed to sever an animal's head from its body, special safety precautions must be observed to reduce the risk of accidents. If the guillotine's cutting blades contact your flesh, they will cut you, even if the guillotine is not in operation. Careless or improper use may cause serious or even fatal injury. All safety precautions that are generally observed when working with an ax, hand saw or chain saw also apply to the operation of this guillotine. It is important that you fully understand the contents of this Manual and that you allow only persons who understand this Manual to operate the guillotine. NEMI Scientific recommends that, in addition to fully understanding the contents of this Manual, each operator of this guillotine receives professional training on its proper operation.

Safety Features

This guillotine has been equipped with several safety features to help prevent injury. The larger guillotines have a pin used to lock the guillotine handle in a fixed position. The guillotine should be locked at all times when it is not in use. Lastly, the guillotine's cutting blades are removable to allow for further safety when the unit is not in use.

Important Safety Precautions

1. Do not operate a guillotine when you are fatigued or otherwise mentally or physically impaired, such as from alcohol or drug usage.
2. Do not allow any distractions in the area during use of the guillotine.
3. Use safety glasses, protective gloves and snug-fitting clothing. Avoid loose-fitting clothing or jewelry, or unconfined long hair or anything that could become entangled with the guillotine use. If animal is suspected of being rabid, additional proper protective clothing should be used.
4. Do not allow other persons to be near the guillotine when cutting with the guillotine. Keep bystanders and animals out of the work area.
5. Do not start cutting until you have a clear work area, secure footing, both hands on the guillotine handle and the guillotine is securely affixed in its position.
6. Keep all parts of your body away from the cutting blades when cutting with the guillotine.
7. Do not operate a guillotine that is damaged, improperly adjusted or is not completely and securely assembled.

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General Safety Summary (Continued)

8. Be sure that the guillotine blades are completely closed before you remove the animal's carcass from the cutting area.
9. Minors should never be allowed to use a guillotine.
10. Never leave the guillotine unattended. When not in use, the guillotine blades should be closed with the lock set in place and locked.
11. Store the guillotine in a secure locked place away from unauthorized users, especially children.
12. Do not allow someone to use the guillotine without ensuring that the user has read and understands the information contained in this Manual and has received proper training on its use.
13. Do not extract or transport the cutting blades without protective gloves. Heavy duty, nonslip gloves improve your grip and protect your hands.
14. Follow manufacturer's sharpening and maintenance instructions for the guillotine. A dull or improperly sharpened cutting blade may reduce the ability of the guillotine to cleanly decapitate the animal.
15. Never try to hold an animal in place while cutting. Holding the animal with one hand will create an extremely dangerous situation by placing your hand holding the animal dangerously close to the cutting area. If necessary, place the animal's body on a platform or stage so that the neck is in proper position for cutting. Never exert more downward force on the handle than is necessary to sever the animal's head.
16. This guillotine is a one-person guillotine. Do not allow other persons to be near the guillotine when cutting. No one else should be holding the animal in place when the guillotine is cutting. Secure the animal's body in place prior to cutting.
17. When cleaning or maintaining the guillotine wear protective gloves and safety glasses.
18. Observe all warning labels on the guillotine.
19. Always secure the cutting blades in the closed position and secure them with the lock prior to transporting the guillotine.
20. Operate the guillotine under good visibility and daylight conditions only.
21. Don't work alone. Keep within calling distance of others in case help is needed.
22. Do not cut any material other than an animal that has been properly anesthetized or euthanized prior to being placed in the guillotine. Cutting any other materials or objects may damage the guillotine or increase the risk of injury.

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Description & Features

The NEMI Animal Guillotine is a lever-operated shear for instant decapitation of laboratory/rabid animals. This technique of dispatching animals is particularly useful in situations where other types of traumatic death or anesthetic overdoses would tend to alter the biochemical nature of the organs to be studied. Utilization of the guillotine is also indicated when immediate access to such organs is imperative. The NEMI guillotine is also a humane method of dispatching diseased or surplus animals.

It is imperative that all personnel operating the guillotine should recognize the inherent danger of the guillotine and take adequate precaution to prevent injury to themselves or others.

The guillotine should be maintained in good working order and serviced on a regular basis to ensure sharpness of blades.

All animals must be sedated, anesthetized or euthanized before decapitation. Never use the guillotine on an animal that would require you to hold the animal, such as an animal that can still move. Be sure to properly position the animal in the guillotine. If necessary, use of a platform or stage to elevate the animal's body is recommended.

All operators must (i) read this Manual and understand the proper safety and operation of this guillotine prior to its use and (ii) demonstrate proficient use of the guillotine by completion of training.

Safety Features

The larger models are equipped with safety features that will help prevent injury.

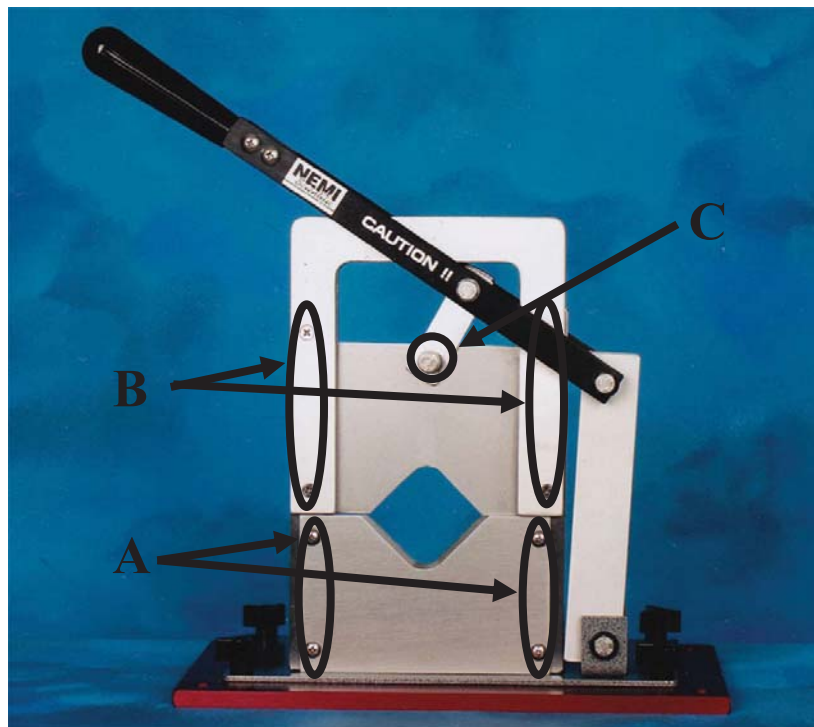
1. Handle Position Pin



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Description & Features (Continued)

Removable Cutting Blades



Use CAUTION when handling blades. Wearing proper safety gloves is required for this process.

Refer to Image 1 for labels.

1. Begin by laying the unit flat and face up (screws heads facing upward).
2. Remove screws A (Image 1) which secure the bottom blade, and carefully remove the bottom blade. Replace the screws loosely after the blades is set aside.
3. Remove screws B (Image 1) and bolt C (Image 1) which secure the front retaining plate and the top blade. Carefully remove the top blade and set it aside.
4. Wipe out the inside of the unit and add new oil to all surfaces to reduce wear.
5. Insert new top blade with the flat side of the edge facing upwards (the side without a bevel). Replace bolt C and tighten the nut until it is secure but do not over tighten it. The linkage attached to the blades should be able to rotate without very much resistance.
6. Replace the front retaining plate and screws B, only tighten the screws lightly as they will be adjusted later. Thread-lock or retaining nuts can be used if desired.
7. Remove screws A again and replace the bottom blade with the bevel side facing upwards. Replace screws A, but do not over tighten. Thread-lock or retaining nuts can be used if desired.
8. Place the unit on its base and gently tighten each screw while testing the up and down action of the blade. The motion should be deliberate for safety reasons, but should not bind or grind.

*When using thread-lock only a small amount is required for each screw.

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Description & Features (Continued)

Blade Sharpening and Burr Removal

Use **CAUTION** when handling blades. Wearing proper safety gloves is required for this process.

1. Remove the blades (refer to blade replacement for instructions).
2. Lay the blades bevel side up on a flat surface with the sharp edge of the blade protruding over the edge of the table. Secure the blades with a clamp or vice.
3. Apply honing oil to the sharpening stone and blade, only enough to dampen it is required.
4. Run the flat edge of the larger sharpening stone along the beveled edge of the blade, beginning at the radius and working outward. Use fluid steady motions and only apply gentle pressure. Do not run the stone across the point of edge of the blade as this will dull it, not sharpen it.
5. Repeat this until desired edge sharpness is obtained or burr is removed.
6. Use the smaller sharpening stone to sharpen the radius of the blade.
7. Flip the blade over and using the larger sharpening stone, perform 1-3 strokes, from the radius outward, on the non-beveled side of the blade to remove any burs created by sharpening.
8. Replace blades (refer to blade replacement for instructions).
9. Work the blades up and down a few times and make sure there is no grinding noise or striation marks on the blades, this is a sign of incorrect sharpening.

Cleaning

After each use, the unit should be properly cleaned using the following steps:

Use **CAUTION** when handling blades. Wearing proper safety gloves is required for this process.

1. Remove the blades (refer to blade replacement for instructions).
2. Wipe out the inside of the unit using any noncorrosive cleaner.
3. Lubricate the internal surfaces and wipe of excess oil.
4. Replace the blades (refer to blade replacement for instructions).

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Guillotine Operation

Initial Set-Up

1. Read the Operator's Manual. Be sure that any person involved in the use of the guillotine has read this Manual and understands fully the safety requirements and operation of the guillotine.
2. Become proficient in the safe use of the guillotine by attending appropriate training classes. You may also improve your proficiency by practicing with the guillotine under proper supervision. Use of stuffed animals or other similar objects to simulate real conditions is recommended.
3. The guillotine's handle requires some assemble prior to initial use. The metal extension hand grip needs to be screwed in place.
4. Secure the base of the guillotine to a stable bench top or other stable surface, including the floor, by placing bolts through the four bolt holes provided, or by fastening sturdy "C" clamps onto the base. The guillotine ***must be immobile for safe operation.***

Decapitating the Animal

All animals must be sedated, anesthetized or euthanized before decapitation. Never use the guillotine on an animal that would require you to hold the animal, such as an animal that can still move. Be sure to properly position the animal in the guillotine. If necessary, use of a platform or stage to elevate the animal's body is recommended. Never try to hold an animal in place while cutting.

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Guillotine Operation (Continued)

1. Be sure guillotine is immobile. Remove all locks and safety features, including the handle position pin. Be sure that the blade handle is properly attached and blades are properly in place.
2. Raise the sliding top blade by lifting the handle upward to such point that the diamond-shaped opening is sufficiently large enough to allow the animal's head to enter the space. Secure the handle in the upward position by inserting the handle position pin. This will secure the opening size such that the animal may be placed into position.
3. Inspect the guillotine and its cutting edges. Ensure that the guillotine blades are sharp and that the guillotine handle slides smoothly and without restriction.
4. Place the animal into the diamond-shaped hole in the blade opening. Take care that your fingers and arms are clear of the cutting blades. The animal's head should fit through the opening such that the animal's neck is resting on the lower V-shaped cutting edge of the diamond. Animals should never be held in place while cutting. It may be necessary to use a platform to elevate the animal's body so that the animal is resting in place without assistance.
5. Once the animal is securely position for decapitation, only the operator of the guillotine should be within a few feet of the guillotine. The operator should take the time to ensure that all bystanders are adequately away from the guillotine, that the only object in the cutting zone is the animal's neck and that the area is free of any and all other safety concerns.
6. Firmly hold the handle in place and remove the handle position pin. The operator should then lower the blade quickly, using a swift firm downward thrust. If the top cutting blade did not entirely cut through the animal's neck, raise the handle back up and secure the handle with the handle position pin. Look to see if any foreign objects are in the way of the cutting blades. If the cutting area is free of any objects, remove the handle position pin, ensure that the cutting area is free of bystanders and again lower the blade quickly.
7. Once the animal's head has been decapitated, leave the blades closed to prevent injury while that carcass is removed from the cutting area and the unit is being cleaned.
8. The guillotine should be properly cleaned after each use. Follow the cleaning and maintenance directions below.
9. After the guillotine is properly cleaned, all safety devices should be engaged to prevent unauthorized use and potential injury/death. The handle position pin should be in the position to secure handle in closed down position. It is recommended that cutting blades be removed when unit is not being used.

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Care and Maintenance

The guillotine must be kept clean and sharp. The operator should ensure that the action is smooth with no perceptible binding or resistance. The blades must be rust-free, sharp, and decapitate with minimal force. The guillotine must be lubricated as needed with silicon.

NEMI animal guillotines are designed to offer easy care and maintenance. Adhering to the following guidelines will ensure stable performance.

Cleaning

After each use, the unit should be properly cleaned using the following steps:

1. After use, the entire guillotine should be cleaned with fast-running cold water to remove blood, tissues and gross contamination. The guillotine is made of corrosion-resistant materials including stainless steel and aluminum.
2. After the gross contaminants are removed, the guillotine may be washed in detergent water and scrubbed for thorough cleaning. Be sure to wear protective gloves when cleaning so as not to be cut by the sharp blades.
3. After each washing, put a few drops of light machine oil (3 in 1) or a silicon spray (such as WD-40) on the blade surfaces and blade channel and run the blades together several times to spread the oil evenly over all moving surfaces. **Be careful to keep fingers and other body parts clear of the cutting blades and out of the cutting zone as the blades are moving.**

Maintenance

The guillotine action should be smooth with no perceptible binding or resistance, and the blade must be rust-free, sharp and decapitate with minimal force.

Blade Movement—If the blades are not moving smoothly with no perceptible binding or resistance, then the guillotine's moving parts and surfaces may need to be oiled. Put a few drops of light machine oil (3 in 1) or a silicon spray (such as WD-40) on the blade surfaces and blade channel and run the blades together several times to spread the oil evenly over all moving surfaces. **Be careful to keep fingers and other body parts clear of the cutting blades and out of the cutting zone as the blades are moving.** Repeat this process until unit is operating smoothly. If binding persists, call NEMI Scientific for further assistance.

Blade Sharpening—The guillotine's cutting blades must be rust-free, sharp and decapitate with minimal force. The cutting blades should be sharpened or replace whenever they are dull. Frequency of sharpening depends on both frequency of use and the species euthanized. Generally, cutting blades should be sharpened or replaced a minimum of every twelve months or more often as needed based on use.

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Care and Maintenance (Continued)

In order to sharpen or replace the cutting blades, the cutting blades need to be removed from the unit. Please review the section “Cutting Blade Removal” under the caption “Description and Features” for details on the removal of the cutting blades. **Remember to wear protective gloves to avoid injury when removing the cutting blades.**

Once the cutting blades are removed, the blades may be sharpened using any suitable carborundum (silicon carbide) stone or file to restore the blades to their original effectiveness. Sharpening may be performed by passing a flat sharpening stone or file that is suitable for knife sharpening across the bevel of the blades a few times until they are sharp to the touch. Never hone the flat side of the blades because it will destroy the shear by opening up a space between the top and bottom blades. **Extreme care should be taken while sharpening the blades as sharp edges will cut skin easily.** Professional assistance is recommended in order to properly sharpen the blades without injury.

If the blades need to be replaced, replacement cutting blades are available by order from NEMI Scientific.

Blades that are replaced should be properly disposed of in a sharp container.

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Appendix 1—Sample Logbook

It is recommended that a logbook be maintained regarding the use and maintenance of the guillotine. This logbook may help comply with government or regulatory requirement and will help to track usage and maintenance of the guillotine.

Logbook

Guillotine Owner:
Place Stored:
Responsible Person:

Date	Species	Reason for Use	Number of Animals	Personnel Involved	Blade Sharp-ened/Replaced

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