



## 12V Chainsaw Sharpener

Owner's Manual



**⚠ WARNING:** Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item #57521

**READ & SAVE THESE INSTRUCTIONS**

Thank you very much for choosing an Ironton™ product!

For future reference, please complete the owner's record below:

Serial Number/Lot Date Code: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Save the receipt, warranty, and this manual. It is important that you read the entire manual to become familiar with this product before you begin using it.

This sharpener is designed for certain applications only. Northern Tool and Equipment is not responsible for issues arising from modification or improper use of this product such as an application for which it was not designed. We strongly recommend that this product not be modified and/or used for any application other than that for which it was designed.

For technical questions, please call **1-800-222-5381**.

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## Intended Use

The Ironton 12 Volt Chainsaw Sharpener is designed to sharpen most types of chainsaw chains.

## Technical Specifications

Property	Specification
Voltage	Standard 12 V Battery (not included)
Motor	12V DC/55W/25,000 RPM

## Important Safety Information

### **⚠️WARNING**

- Read and understand all instructions. Failure to follow all instructions may result in serious injury or property damage.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this tool. Always be aware of the environment and ensure that the tool is used in a safe and responsible manner.
- Do not allow persons to operate or assemble the product until they have read this manual and have developed a thorough understanding of how it works.
- Do not modify this product in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the product. There are specific applications for which the product was designed.
- Use the right tool for the job. DO NOT attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. This product will be safer and do a better job at the capacity for which it was intended. DO NOT use this equipment for a purpose for which it was not intended.
- Industrial or commercial applications must follow OSHA requirements.

### **⚠️WARNING**

#### **WORK AREA SAFETY**

- Inspect the work area before each use. Keep work area clean, dry, free of clutter, and well-lit. Cluttered, wet, or dark work areas can result in injury. Using the product in confined work areas may put you dangerously close to cutting tools and rotating parts.
- Do not use the product where there is a risk of causing a fire or an explosion; e.g., in the presence of flammable liquids, gases, or dust. The product can create sparks, which may ignite the flammable liquids, gases, or dust.
- Do not allow the product to come into contact with an electrical source. The tool is not insulated and contact will cause electrical shock.
- Keep children and bystanders away from the work area while operating the tool. Do not allow children to handle the product.

## **⚠️WARNING**

### **PERSONAL SAFETY**

- Stay alert, watch what you are doing, and use common sense when operating the tool. Do not use the tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.
- Dress properly. Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Air vents on the tool often cover moving parts and should be avoided.
- Wear the proper personal protective equipment when necessary. Use ANSI Z87.1 compliant safety goggles (not safety glasses) with side shields, or when needed, a face shield. Use a dust mask in dusty work conditions. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate. This applies to all persons in the work area.
- Do not overreach. Keep proper footing and balance at all times.
- Do not use the tool when tired or under the influence of drugs, alcohol or medication.
- Remove keys or wrenches before connecting the tool to an air supply, power supply, or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may cause personal injury.
- Secure the work with clamps or a vise instead of your hand when practical. This safety precaution allows for proper tool operation using both hands.

## **⚠️CAUTION**

### **PRODUCT USE AND CARE**

- Do not force the product. Products are safer and do a better job when used in the manner for which they are designed. Plan your work, and use the correct product for the job.
- Check for damaged parts before each use. Carefully check that the product will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the product with a damaged part.
- Do not use a product with a malfunctioning switch. Any power tool that cannot be controlled with the power switch is dangerous and must be repaired by an authorized service representative before using.
- Disconnect the power/air supply from the product and place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store the product when it is not in use. Store it in a dry, secure place out of the reach of children. Inspect the tool for good working condition prior to storage and before re-use.
- Use only accessories that are recommended by the manufacturer for use with your product. Accessories that may be suitable for one product may create a risk of injury when used with another tool. Never use an accessory that has a lower operating speed or operating pressure than the tool itself.

- Keep guards in place and in working order. Never operate the product without the guards in place.
- Do not leave the tool running unattended.

## Specific Operation Warnings

### ⚠WARNING

- Wear ANSI Z87.1 compliant safety goggles.
- Do not use grinding wheels that have a max RPM less than the marked RPM rating on the tool.
- Keep hands clear from grinding wheel during use.
- Electric shock hazard. Do not expose to rain or use in damp locations.
- Do not use for wet grinding.
- Do not use wheel if cracked or chipped.
- Not for use by or around children.
- Disconnect tools before servicing; when changing accessories, such as blades, bits, cutters, and the like.
- Reduce the risk of unintentional starting. Make sure switch is in off position before plugging in.
- Must ONLY be used with a standard 12V battery.
- Double check the locknut for correct, secure grinding-stone installation before each use.
- NEVER sharpen a chainsaw while the chainsaw's engine is running.
- Never exceed the manufacturer's recommended depth-gauge setting for your chain.
- Follow manufacturer's current specifications for correct filing angles.
- Excessive depth-gauge settings or incorrect filing angles can increase the risk of kickback, which can cause serious injury to the operator or bystanders.

## Main Parts of Sharpener

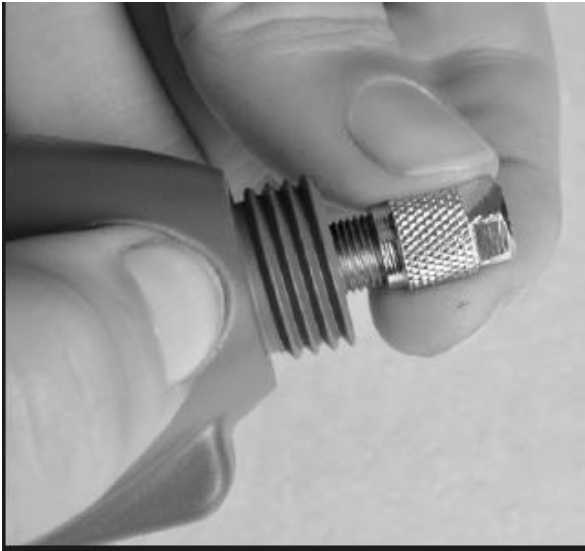
Reference	Subassembly
1	Sharpening Stone
2	Wrench and Multi-wrench
3	Sharpening Guide
4	Collet Cover
5	Chainsaw Sharpener

## Assembly Instructions

1. First determine what size stone is required to sharpen your chain. To do this, refer to your chainsaw owner's manual, your chainsaw instruction manual, or contact your chainsaw manufacturer. The size and pitch of the chain is often stamped or printed on the chainsaw's bar.
2. This sharpener comes with 3 different size stones:

- 5/32" (smallest diameter stone) fits saws with 1/4 pitch or 3/8"s low profile chain
- 3/16" (medium diameter stone) fits saws with .325 pitch chain
- 7/32" (largest diameter stone) fits saws with 3/8" pitch chain

3. You can identify the size of each stone by sizing it with the multi-wrench included. Once you have identified the correct stone for your chainsaw, remove the collet cap from the end of your sharpener (see photo).



4. Attach the correct sharpening stone by slowly turning the chuck while simultaneously pressing the lock button until it engages. See the following photo:



5. Open the chuck and insert the shank of the sharpener. Make sure to leave approximately 1/4" of the shank exposed between the chuck cap and the stone.



6. Tighten the chuck using the provided multi-wrench.

7. Screw on the chainsaw's sharpening guide and adjust:

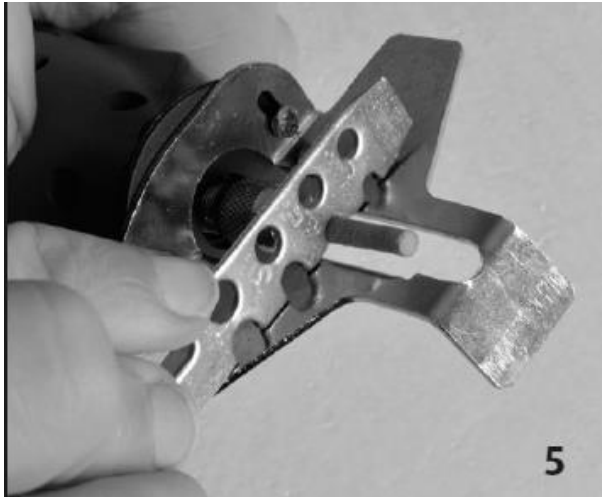
8. The sharpening guide must be adjusted up or down on the mounting plate so the correct amount of the stone's diameter will be exposed.

9. To adjust the stone to the correct depth, loosen the screws on the mounting plate of the sharpening guide.



10. Place the multi-wrench on its side with the four round notches down upon the face of the sharpening guide. The four notches correspond to the different stone sizes ( $5/32$ " ,  $3/16$ " ,  $7/32$ " , and 4.5mm).

11. Position the correct size notch over the stone seated in the aperture of the chain guide. Adjust as described previously and you're now ready to sharpen.



## Before Each Use

### ⚠WARNING

- Double check the lock nut for correct, secure grinding-stone installation before each use.

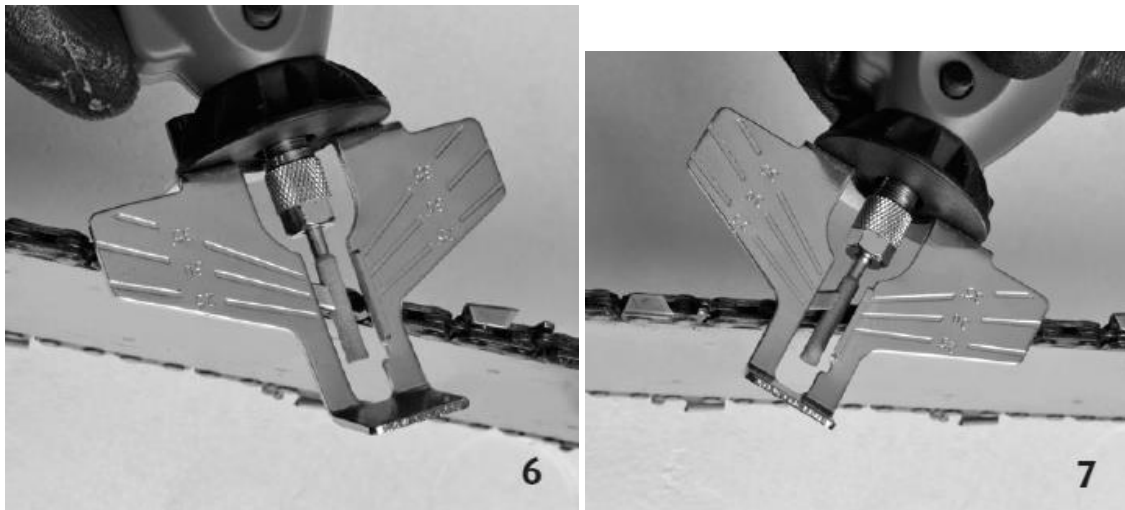
## Operating Instructions

### ⚠WARNING

- Wear ANSI Z87.1 compliant safety goggles.
- Do not use grinding wheels that have a max RPM less than the marked RPM rating on the tool.
- Keep hands clear from grinding wheel during use.
- Electric shock hazard. Do not expose to rain or use in damp locations.
- Do not use for wet grinding.
- Do not use wheel if cracked or chipped.
- Reduce the risk of unintentional starting. Make sure switch is in off position before plugging in.
- Must ONLY be used with a standard 12V battery.
- Double check the locknut for correct, secure grinding-stone installation before each use.
- NEVER sharpen a chainsaw while the chainsaw's engine is running.
- Never exceed the manufacturer's recommended depth-gauge setting for your chain.
- Follow manufacturer's current specifications for correct filing angles.
- Excessive depth-gauge settings or incorrect filing angles can increase the risk of kickback, which can cause serious injury to the operator or bystanders.

Place your saw on a flat, solid, stable surface so it will not move or slide around during the sharpening process. The chain tension should be adjusted to the manufacturer's specifications.

Always sharpen the saw away from your body. Sharpen chainsaw's cutting teeth or cutters as shown below. The sharpening guide should lay flat on the chain with the stone positioned in the cutter at the angle recommended by the manufacturer. Use the guide lines on the top of the sharpening guide for reference.



When sharpening, use two or three light strokes back and forth with the sharpener. Let the sharpener and stone do the work. Sharpen all cutters equally.

When all the teeth on the top of the bar have been sharpened, use a glove or rag to advance the chain by pulling towards the end of the bar. Sharpen remaining cutters evenly.

**After Each Use**

Let the tool cool down and place it in a clean, dry place after use.

**Maintenance**

Maintain the sharpener by adopting a program of conscientious repair and maintenance in accordance with the following recommended procedures. It is recommended that the general condition of any tool be examined before it is used. Keep your tool in good repair. Keep all cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control. Keep handles dry, clean, and free from oil and grease. The following chart is based on a normal operation schedule.

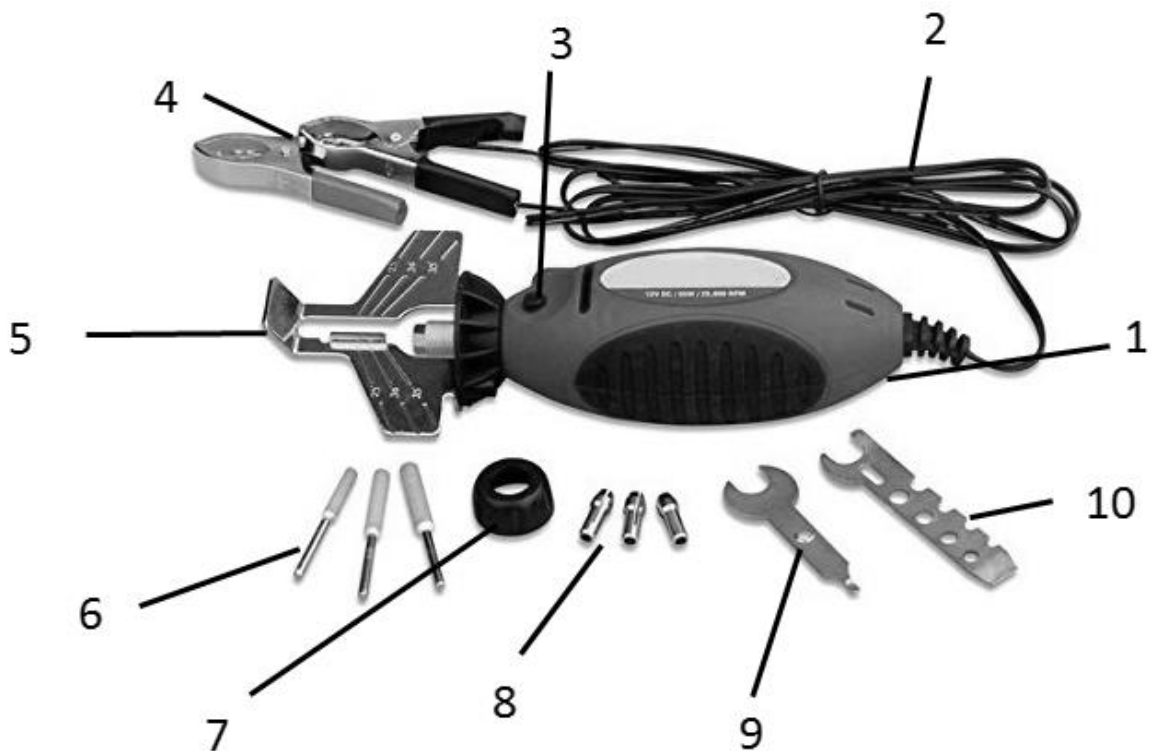
Maintenance Interval	Maintenance Point
Before Use	Inspect the whole unit and ensure it is ready for operation.
After Use	Place it in a dry and clean place.

## Troubleshooting

Use the table below to troubleshoot problems before contacting service personnel or your local dealer. If the problem continues after troubleshooting, call your local dealer for assistance.

Failure	Possible Cause	Corrective Action
The sharpener does not work.	Cord not connected.	Check that cord is plugged in.
	No power at outlet.	Check power at outlet. If outlet is not powered, turn off sharpener and check circuit breaker.
	Internal damage or wear.	Have technician service.
Performance decreases over time.	Accessory dull or damaged.	Keep cutting accessories sharp. Replace as needed.
Excessive noise or rattling.	Internal damage or wear.	Have technician service sharpener.

## Parts Diagram



## Parts List

Reference	Part Description	Quantity
1	Body	1
2	Cord	1
3	Lock Button	1
4	Pliers	2
5	Sharpening Guide	1
6	Shank	3
7	Collect Cover	1
8	Chuck	3
9	Wrench	1
10	Multi-wrench	1

## Replacement Parts

- For replacement parts and technical questions, please call Customer Service at **1-800-222-5381**.
- Not all product components are available for replacement. The illustrations provided are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following information will be required: item description, item model number, item serial number/item lot date code, and the replacement part reference number.
- The distributor reserves the rights to make design changes and improvements to product lines and manuals without notice.

## Limited Warranty

Northern Tool and Equipment Company, Inc. ("We" or "Us") warrants to the original purchaser only ("You" or "Your") that the Ironton product purchased will be free from material defects in both materials and workmanship, normal wear and tear excepted, for a period of **90 days** from date of purchase. The foregoing warranty is valid only if the installation and use of the product is strictly in accordance with product instructions. There are no other warranties, express or implied, including the warranty of merchantability or fitness for a particular purpose. If the product does not comply with this limited warranty, Your sole and exclusive remedy is that We will, at our sole option and within a commercially reasonable time, either replace the product or product component without charge to You or refund the purchase price (less shipping). This limited warranty is not transferable.

### Limitations on the Warranty

This limited warranty does not cover: (a) normal wear and tear; (b) damage through abuse, neglect, misuse, or as a result of any accident or in any other manner; (c) damage from misapplication, overloading, or improper installation; (d) improper maintenance and repair; and (e) product alteration in any manner by anyone other than Us, with the sole exception of alterations made pursuant to product instructions and in a workmanlike manner.

### Obligations of Purchaser

You must retain Your product purchase receipt to verify date of purchase and that You are the original purchaser. To make a warranty claim, contact Us at 1-800-222-5381, identify the product by make and model number, and follow the claim instructions that will be provided. The product and the purchase receipt must be provided to Us in order to process Your warranty claim. Any returned product that is replaced or refunded by Us becomes our property. You will be responsible for return shipping costs or costs related to Your return visit to a retail store.

### Remedy Limits

Product replacement or a refund of the purchase price is Your sole remedy under this limited warranty or any other warranty related to the product. We shall not be liable for: service or labor charges or damage to Your property incurred in removing or replacing the product; any damages, including, without limitation, damages to tangible personal property or personal injury, related to Your improper use, installation, or maintenance of the product or product component; or any indirect, incidental or consequential damages of any kind for any reason.

### Assumption of Risk

You acknowledge and agree that any use of the product for any purpose other than the specified use(s) stated in the product instructions is at Your own risk.

### Governing Law

This limited warranty gives You specific legal rights, and You also may have other rights which vary from state to state. Some states do not allow limitations or exclusions on implied warranties or incidental or consequential damages, so the above limitations may not apply to You. This limited warranty is governed by the laws of the State of Minnesota, without regard to rules pertaining to conflicts of law. The state courts located in Dakota County, Minnesota shall have exclusive jurisdiction for any disputes relating to this warranty.



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