Owner’s Manual & Safety Instructions

Save This Manual  Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product’s serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

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WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.
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WARNING SYMBOLS AND DEFINITIONS

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

**DANGER**
Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING**
Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION**
Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**NOTICE CAUTION**
Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

**General Power Tool Safety Warnings**

**WARNING**
Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your battery-operated (cordless) power tool.

**Work Area Safety**

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

**Electrical Safety**

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
Personal Safety

1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

2. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

3. Prevent unintentional starting. Ensure the Trigger is in the off-position before connecting to power source, picking up or carrying the tool. Carrying power tools with your finger on the Trigger or energizing power tools that have the Trigger on invites accidents.

4. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

5. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

6. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

7. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

Power Tool Use and Care

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

2. Do not use the power tool if the Trigger does not turn it on and off. Any power tool that cannot be controlled with the Trigger is dangerous and must be repaired.

3. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Battery Tool Use and Care

1. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

3. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Chain Saw Safety Warnings

1. Keep all parts of the body away from the saw chain when the chain saw is operating. Before you start the chain saw, make sure the saw chain is not contacting anything. A moment of inattention while operating chain saws may cause entanglement of your clothing or body with the saw chain.

2. Always hold the chain saw with your right hand on the rear handle and your left hand on the front handle. Holding the chain saw with a reversed hand configuration increases the risk of personal injury and should never be done.

3. Hold the power tool by insulated gripping surfaces only, because the saw chain may contact hidden wiring or its own cord. Saw chains contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.

4. Wear safety glasses and hearing protection. Further protective equipment for head, hands, legs, and feet is recommended. Adequate protective clothing will reduce personal injury by flying debris or accidental contact with the saw chain.

5. Do not operate a chain saw in a tree. Operation of a chain saw while up in a tree may result in personal injury.

6. Always keep proper footing and operate the chain saw only when standing on fixed, secure and level surface. Slippery or unstable surfaces such as ladders may cause a loss of balance or control of the chain saw.

7. When cutting a limb that is under tension be alert for spring back. When the tension in the wood fibres is released the spring loaded limb may strike the operator and/or throw the chain saw out of control.

8. Use extreme caution when cutting brush and saplings. The slender material may catch the saw chain and be whipped toward you or pull you off balance.

9. Carry the chain saw by the front handle with the chain saw switched off and away from your body. When transporting or storing the chain saw always fit the guide bar cover. Proper handling of the chain saw will reduce the likelihood of accidental contact with the moving saw chain.

10. Follow instructions for lubricating, chain tensioning and changing accessories. Improperly tensioned or lubricated chain may either break or increase the chance for kickback.

11. Keep handles dry, clean, and free from oil and grease. Greasy, oily handles are slippery causing loss of control.

12. Cut wood only. Do not use chain saw for purposes not intended. For example: do not use chain saw for cutting plastic, masonry or non-wood building materials. Use of the chain saw for operations different than intended could result in a hazardous situation.

13. DANGER! People with pacemakers should not use chain saws. Chain saws produce strong electromagnetic fields that can cause pacemaker interference or pacemaker failure. People with pacemakers should consult their physician(s) for advice.

14. Causes and operator prevention of kickback:

Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a sudden reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a chain saw user, you should take several steps to keep your cutting jobs free from accident or injury.

Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

a. Maintain a firm grip, with thumbs and fingers encircling the chain saw handles, with both hands on the saw and position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the chain saw.
b. Do not overreach and do not cut above shoulder height. This helps prevent unintended tip contact and enables better control of the chain saw in unexpected situations.

c. Only use replacement bars and chains specified by the manufacturer. Incorrect replacement bars and chains may cause chain breakage and/or kickback.

d. Follow the manufacturer’s sharpening and maintenance instructions for the saw chain. Decreasing the depth gauge height can lead to increased kickback.

15. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

16. Avoid unintentional starting. Prepare to begin work before turning on the tool.

17. Do not leave the tool unattended when the Battery Pack is connected. Turn off the tool, and remove the Battery Pack before leaving.

18. The battery Charger gets hot during use. The Charger’s heat can build up to unsafe levels and create a fire hazard if it does not receive adequate ventilation, due to an electrical fault, or if it is used in a hot environment. Do not place the Charger on a flammable surface. Do not obstruct any vents on the Charger. Especially avoid placing the Charger on carpets and rugs; they are not only flammable, but they also obstruct vents under the Charger. Place the Charger on a stable, solid, nonflammable surface (such as a stable metal workbench or concrete floor) at least 1 foot away from all flammable objects, such as drapes or walls. Keep a fire extinguisher and a smoke detector in the area. Frequently monitor the Charger and Battery Pack while charging.

19. This product is not a toy. Keep it out of reach of children.

20. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Lithium Battery Safety Warnings

LITHIUM BATTERIES STORE A LARGE AMOUNT OF ENERGY AND WILL VENT FIRE OR EXPLODE IF MISTREATED:

d. Puncture,  
e. Incinerate, or  
f. Expose to temperatures greater than 104°F.

1. Keep Battery Pack dry.

2. DO NOT DO ANY OF THE FOLLOWING TO THE BATTERY PACK:  
a. Open,  
b. Drop,  
c. Short-circuit,

Battery Charger Safety

1. SAVE THESE INSTRUCTIONS – This manual contains important safety and operating instructions for Battery Charger Model 64940.

2. Before using Battery Charger, read all instructions and cautionary markings on Battery Charger, Battery, and product using Battery.
3. CAUTION - To reduce risk of injury, charge only Li-ion type rechargeable batteries. Other types of batteries may burst causing personal injury and damage.

4. Do not charge or use tool in rain, or in wet locations.

5. Do not use battery-operated tool in rain.

6. Remove or disconnect battery after use, before servicing, cleaning or removing material from the tool.

7. Do not dispose of battery in a fire. The cell may explode. Check with local codes for possible disposal instructions.

8. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.

9. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

3. Wear suitable gloves to reduce the vibration effects on the user.

4. Use tools with the lowest vibration when there is a choice.

5. Include vibration-free periods each day of work.

6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.

7. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SAVE THESE INSTRUCTIONS.

Specifications

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>20V Bauer Li-Ion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guide Bar</td>
<td>10&quot; (254mm) Sprocket Nose Model: Bauer 64940 #31</td>
</tr>
<tr>
<td>Saw Chain</td>
<td>10&quot; (254mm) Bar Length, 3/8&quot; Pitch, 0.043&quot; Gauge Model: Bauer 64940 #30</td>
</tr>
<tr>
<td>Lubrication</td>
<td>Bar and chain oil. If not available, SAE 30W motor oil may be used.</td>
</tr>
</tbody>
</table>

Note: This electric Chainsaw is for cutting small logs and for lighter weight trimming jobs. A more powerful Chainsaw may be needed for heavy duty use.
Grounding

**WARNING**

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING:
Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the charger. Do not use the charger if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Extension Cords

**Note:** Extension cords must not be used with this item’s Charger.

Symbology

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Double Insulated]</td>
<td>Double Insulated</td>
</tr>
<tr>
<td>![Volts]</td>
<td>Volts</td>
</tr>
<tr>
<td>![Alternating Current]</td>
<td>Alternating Current</td>
</tr>
<tr>
<td>![Amperes]</td>
<td>Amperes</td>
</tr>
<tr>
<td>![n₀ xxxx/min.]</td>
<td>No Load Revolutions per Minute (RPM)</td>
</tr>
<tr>
<td>![Read the manual before set-up and/or use.]</td>
<td>Read the manual before set-up and/or use.</td>
</tr>
<tr>
<td>![WARNING marking concerning Risk of Fire. Do not cover Charger ventilation ducts. Charge on fireproof surface only.]</td>
<td>WARNING marking concerning Risk of Fire. Do not cover Charger ventilation ducts. Charge on fireproof surface only.</td>
</tr>
<tr>
<td>![WARNING marking concerning Risk of Electric Shock. Properly connect Charger’s power cord to appropriate outlet.]</td>
<td>WARNING marking concerning Risk of Electric Shock. Properly connect Charger’s power cord to appropriate outlet.</td>
</tr>
</tbody>
</table>

**WARNING marking concerning Risk of Explosion.** Do not puncture, short, or open battery packs and do not charge damaged battery packs.

**WARNING marking concerning Risk of Kickback.** Contact of the guide bar tip with any object should be avoided.

**WARNING marking concerning Risk of Kickback.** Tip contact can cause the guide bar to move suddenly upward and backward, which can cause serious injury.

**WARNING marking concerning Risk of Fire.** Do not operate the chainsaw with only one hand.

**WARNING marking concerning Risk of Loss of Control.** Always use two hands when operating the chainsaw.

**WARNING marking concerning Saw Chain Orientation.** Cutters must face in direction of rotation.
Setup - Before Use:

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Note: For additional information regarding the parts listed in the following pages, refer to Parts List and Diagram on page 22.

Functions
Safety Device Explanation

1. Hand Guard—A guard that protects your hand on the Front Handle from the Saw Chain.
2. Trigger Lockout—A movable stop that prevents the unintentional operation of the Trigger until manually activated.
3. Low-Kickback Chain—A Chain that complies with the kickback performance requirements of ANSI B175.1-1991 when tested on a representative sample of chainsaws.
Guide Bar and Saw Chain Installation and Adjustment

⚠️ WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Make sure that the Trigger is in the off-position and remove the Battery Pack before performing any procedure in this section.

Note: New Saw Chains often need to be tensioned several times during first use. Check a new Saw Chain’s tension often when first using.

Follow the directions in the following sections for installing the Guide Bar and Saw Chain, for checking and adjusting Saw Chain tension, and for replacing the Saw Chain when necessary.

Guide Bar/Saw Chain Installation/Replacement

CAUTION! Wear heavy-duty work gloves when handling Saw Chain.

1. BEFORE FIRST USE: Soak Saw Chain in bar and chain oil (sold separately) overnight.

2. WARNING! To prevent serious injury from accidental operation: Remove the Battery Pack from the Chainsaw.

3. Loosen the Lock Knob and remove the Drive Cover from the Saw.

4. If it is not already connected, attach Bar Support Plate (33) securely using the Screw (32) through one of the holes in the of the Guide Bar (31). WARNING! The Bar Support Plate is critical to allow the Guide Bar to properly tighten in place.

5. Place the Saw Chain (30) over the Guide Bar. The cutters of the Saw Chain must face away from the Chainsaw along the top edge of the Guide Bar. Fit the Chain links into the groove around the Guide Bar.

Figure B: Remove Battery Pack

Figure C: Attach Bar Support Plate

Figure D: Saw Chain Orientation
6. Place the slotted end of the Chain Guide Bar over the two tabs on the Press Block (27) and place the Saw Chain over the Drive Sprocket (25). The Bar Support Plate must be on the outside of the Guide Bar. Check again that the Saw Chain cutters are aligned properly and the Saw Chain drive links are seated completely in the slot of the Guide Bar.

![Figure E: Installing Chain Guide Bar](image)

7. Replace the Drive Cover. Using a gloved hand, pull Guide Bar forward **firmly** before tightening Lock Knob (41) **just until it is snug**.

![Figure F: Pull Guide Bar Forward](image)

8. Find a solid surface that will not damage the Saw Chain or Guide Bar. Rotate the Chainsaw so that the Guide Bar is **pressed firmly** against the surface. While under pressure, tighten the Lock Knob securely.

![Figure G: Apply Pressure to Guide Bar Before Final Tightening](image)

9. After final tightening, check Saw Chain tension as explained below to make sure it is properly adjusted.

### Checking Saw Chain Tension

1. Before using, check the Saw Chain tension.
2. While wearing heavy-duty gloves, use your index finger and thumb to carefully grab the Saw Chain in the middle section under the Chain Guide Bar.
3. Pull the Saw Chain away from the Guide Bar.
4. The Saw Chain should snap back against the Guide Bar. The Chain should fit snugly in the groove of the Chain Guide Bar, yet you should still be able to slide the chain along the Chain Guide Bar by hand.
5. There should be no sagging between the Guide Bar and Saw Chain on the **underside** of the Guide Bar.

![Figure H: Checking Saw Chain Tension](image)
Operating Instructions

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Charging Battery Pack

Charge Battery Pack according to the instructions included with the 20V Bauer Battery charger (both sold separately).
Workpiece and Work Area Set Up

1. Designate a work area that is clean and well lit. The work area must not allow access by children or pets to prevent distraction and injury.

2. There must not be objects, such as utility lines, nearby that will present a hazard while working.

General Operating Instructions

1. Before first use and before each use thereafter, remove the Oil Tank Cap. Inspect the Cap Gasket for damage. Fill the oil reservoir to just below fill plug with oil (not included). Refer to Specifications Chart on page 6 for oil type. Then replace the Oil Tank Cap. Oil is automatically applied to the Saw Chain during operation.

2. Make sure that the Trigger is in the off-position, then slide the Battery Pack into slot on back of Chainsaw until it clicks into place.

3. Grasp the Handles with both hands. Always grip the handle with the thumb and fingers encircling the handle as shown in Figure I.

4. Stand in front of the wood to be cut with your feet firmly in place.

5. Push the Lockout Switch to the left or right, then squeeze and hold the Trigger. With the Chainsaw running, you may release pressure on the Lockout Switch. Releasing the Trigger will stop the motor.

**NOTE:** The Trigger cannot be activated unless the Lockout Switch is depressed.

**DANGER!** To prevent serious injury and death from kickback: Do not touch the Guide Bar Nose to the wood.

3. A first-time user should, as a minimum practice, cut logs on a saw-horse or cradle before cutting down trees.

6. When the Chainsaw reaches full speed, begin cutting with a light, downward pressure against the bottom mid-section of the Saw Chain. Allow the Saw Chain to cut at its own rate. Applying too much pressure can damage the tool.

**DANGER!** When cutting loose, round wood stock, place the wood stock on a sawhorse, in a cradle, or use a timberjack (all sold separately) to avoid grabbing and throw back.

7. To prevent accidents, turn off the tool and remove its Battery Pack after use.

8. When the Saw has cooled completely, clean thoroughly and cover the Guide Bar with the Chain Guide Bar Sheath. Store the tool indoors out of children’s reach.

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**Figure I: Holding the Chainsaw**

*Note:* Front Hand Guard not shown.
Instructions concerning the proper techniques for basic felling, limbing, and cross-cutting

Felling a Tree

When bucking and felling operations are being performed by two or more persons at the same time, the felling operations should be separated from the bucking operation by a distance of at least twice the height of the tree being felled. Trees should not be felled in a manner that would endanger any person, strike any utility line or cause any property damage. If the tree does make contact with any utility line, the company should be notified immediately.

The chainsaw operator should keep on the uphill side of the terrain as the tree is likely to roll or slide downhill after it is felled.

An escape path should be planned and cleared as necessary before cuts are started. The escape path should extend back and diagonally to the rear of the expected line of fall as illustrated in Figure J.

Before felling is started, consider the natural lean of the tree, the location of larger branches and the wind direction to judge which way the tree will fall.

Remove dirt, stones, loose bark, nails, staples and wire from the tree.

Figure J: Escape Routes

Bauer
Notching Undercut

Make the notch 1/3 the diameter of the tree, perpendicular to the direction of falls as illustrated in Figure K. Make the lower horizontal notching cut first. This will help to avoid pinching either the saw chain or the guide bar when the second notch is being made.

Felling Back Cut

Make the felling back cut at least 2 inches higher than the horizontal notching cut as illustrated in Figure K. Keep the felling back cut parallel to the horizontal notching cut. Make the felling back cut so enough wood is left to act as a hinge. The hinge wood keeps the tree from twisting and falling in the wrong direction. Do not cut through the hinge.

As the felling gets close to the hinge, the tree should begin to fall. If there is any chance that the tree may not fall in desired direction or it may rock back and bind the saw chain, stop cutting before the felling back cut is complete and use wedges of wood, plastic or aluminium to open the cut and drop the tree along the desired line of fall.

When the tree begins to fall remove the chainsaw from the cut, stop the motor, put the chainsaw down, then use the retreat path planned. Be alert for overhead limbs falling and watch your footing.

Limbing a Tree

Limbing is removing the branches from a fallen tree. When limbing leave larger lower limbs to support the log off the ground. Remove the small limbs in one cut as illustrated in Figure L. Branches under tension should be cut from the bottom up to avoid binding the chainsaw.
Bucking a Log

Bucking is cutting a log into lengths. It is important to make sure your footing is firm and your weight is evenly distributed on both feet. When possible, the log should be raised and supported by the use of limbs, logs or chocks. Follow the simple directions for easy cutting.

When the log is supported along its entire length as illustrated in Figure M, it is cut from the top (overbuck).

![Figure M: Log Supported Along the Entire Length](image)

Cut from top (overbuck) avoid cutting earth

When the log is supported on one end, as illustrated in Figure N, cut 1/3 the diameter from the underside (underbuck). Then make the finished cut by overbucking to meet the first cut.

![Figure N: Log Supported One End](image)

2nd cut overbuck (2/3 diameter) to meet 1st cut (to avoid pinching)

1st cut underbuck (1/3 diameter) to avoid splintering
Bucking a Log (continued)

When the log is supported on both ends, as illustrated in Figure O, cut 1/3 the diameter from the top (overbuck). Then make the finished cut by underbucking the lower 2/3 to meet the first cut.

1st cut overbuck (1/3 diameter) to avoid splintering

2nd cut underbuck (2/3 diameter) to meet 1st cut (to avoid pinching)

Figure O: Log Supported Both Ends

When bucking on a slope always stand on the uphill side of the log, as illustrated in Figure P. When “cutting through”, to maintain complete control release the cutting pressure near the end of the cut without relaxing your grip on the chainsaw handles. Don’t let the chain contact the ground. After completing the cut, wait for the saw chain to stop before you move the chainsaw. Always stop the motor before moving from tree to tree.

Stand on uphill side when cutting because log may roll

Figure P: Bucking a Log
Maintenance and Servicing

Procedures not specifically explained in this manual must be performed only by a qualified technician.

**WARNING**

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Make sure that the Trigger is in the off-position and remove the Battery Pack before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE: Do not use damaged equipment.

If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE**, inspect the general condition of the tool. Check for:
   - leaking, swollen, or cracked battery pack
   - loose hardware
   - misalignment or binding of moving parts
   - cracked or broken parts
   - dull or damaged saw chain
   - any other condition that may affect its safe operation.

2. **BEFORE FIRST USE AND BEFORE EACH USE THEREAFTER**, make sure the Oil Tank is filled with oil (not included). Refer to Specifications Chart on page 6 for oil type.


4. **PERIODICALLY OR WHEN REPLACING SAW CHAIN**, turn the Chain Guide Bar over to distribute the wear on it. When doing this, the Bar Support Plate (33) will need to be remounted to the other side of the Guide Bar. Replace the Guide Bar when bent, cracked, or when the Saw Chain moves excessively from side to side on the Guide Bar due to wear. Refer to Chain Guide Bar Care on page 19.

   **WARNING!** Replace the Saw Chain and Guide Bar only with an identical Saw Chain and Guide Bar.

5. **AFTER USE**, wipe the outside surface of the Chainsaw with a clean, dry cloth. If necessary use a mild detergent. Do not use solvents. Do not immerse this tool in liquid.

6. **Li-Ion BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.**
   Do not short, incinerate or open battery.

7. **Disconnect Battery Pack and store Battery Pack, Charger, and tool in dry, indoor area out of reach of children and away from metal objects (i.e., paperclips, coins) to prevent shorting.**

Sharpening/Replacing the Saw Chain

**WARNING!** Wear heavy-duty work gloves when handling the Saw Chain.

1. For smooth and safe operation, always keep the Saw Chain cutters sharp.

2. Have the cutters sharpened by a qualified technician when you notice any of the following symptoms:
   a. The sawdust becomes powder-like.
   b. You can’t make the cut without extra force.
   c. The Chainsaw does not cut straight.
   d. Vibration increases.

3. A Saw Chain that is damaged or too worn to be restored to a usable condition by sharpening will need to be replaced. Refer to Guide Bar/Saw Chain Installation/Replacement on page 10.

   **WARNING!** Replace the Saw Chain only with an identical Saw Chain.
Chain Guide Bar Care

1. Remove the Chain Guide Bar periodically to clean and lubricate.
2. Deburr rails of Guide Bar as needed. Use a flat file to make side edges square.
3. Remove sawdust and sap from the Bar Groove using a Guide Bar cleaning tool (sold separately), then lubricate the nose sprocket at the ports with grease.

   ![Diagram of Chain Guide Bar]

   **Figure Q:** Cleaning and Lubricating Guide Bar

4. Reverse the Guide Bar when replacing the Saw Chain to prevent uneven wear. When doing this, the Bar Support Plate (33) will need to be remounted to the other side of the Guide Bar.

5. The rails of the Guide Bar groove should always be parallel to each other. Place a ruler along the surface of the Guide Bar and Saw Chain. If there is a gap, the bar is normal.

   ![Diagram of Guide Bar with Ruler]

   **Figure R:** Normal Guide Bar

   If the ruler is flush with the Guide Bar and Saw Chain, or the Chain tilts to one side, then the Bar is worn and needs to be replaced.

   ![Diagram of Worn Guide Bar]

   **Figure S:** Worn Guide Bar

Cleaning, Maintenance, and Lubrication Schedule

**Note:** This maintenance schedule is intended solely as a general guide. If performance decreases or if equipment operates unusually, check systems immediately. The maintenance needs of each piece of equipment will differ depending on factors such as duty cycle, temperature, air quality, and other factors. If you have doubts about your ability to safely service this tool, have a qualified technician service the equipment instead.

**Periodic Maintenance or When Replacing Saw Chain:**

- a. Clean and lubricate Chain Guide Bar and turn over. When doing this, the Bar Support Plate (33) will need to be remounted to the other side of the Guide Bar.
- b. Deburr Guide Bar as needed.
- c. Check Chain Sprocket for wear or damage.

**Monthly Maintenance:**

Clean Chain Oil Tank.

**If Worn or Damaged:**

- a. Replace Chain Guide Bar if it becomes worn, bent or damaged. When doing this, the Bar Support Plate (33) will need to be remounted to the new Guide Bar.
- b. Sharpen or replace Saw Chain.
PLEASE READ THE FOLLOWING CAREFULLY

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Record Product's Serial Number Here: ________________________________

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.
## Parts List and Diagram

### Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Qty</th>
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<tr>
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<td>3</td>
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<tr>
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<td>7</td>
<td>Ball Bearing 6000-2RS/P0</td>
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Limited 90 Day Warranty

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This warranty gives you specific legal rights and you may also have other rights which vary from state to state.