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. 19k

ATLAS™

10" POLE SAW

40V LITHIUM



Battery and charger sold separately

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

56934

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠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 INSTRUCTIONS

⚠ WARNING

When using electric gardening appliances, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS

Gardening Appliance Safety

1. **Avoid Dangerous Environment -** Do not use appliances in damp or wet locations.
2. **Do Not Use In Rain.**
3. **Keep Children Away -** All visitors should be kept at a distance from work area.
4. **Dress Properly -** Do not wear loose clothing or jewelry. They can be caught in moving parts. Use of rubber gloves and substantial footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
5.  **Wear ANSI-approved safety goggles, hard hat and heavy-duty rubber work gloves.** Use face or dust mask if operation is dusty.
6. **Use Right Appliance -** Do not use appliance for any job except that for which it is intended.
7. **Avoid Unintentional Starting -** Do not carry appliance with finger on switch.
8. Don't grasp the exposed cutting blades or cutting edges when picking up or holding the appliance.
9. **Do Not Force Appliance -** It will do the job better and with less likelihood of injury at the rate for which it was designed.
10. **Do not Overreach -** Keep proper footing and balance at all times.
11. **Stay Alert -** Watch what you are doing. Use common sense. Do not operate appliance when you are tired.
12. **Store Idle Appliances Indoors -** When not in use, appliances should be stored indoors in dry, and high or locked-up place - out of reach of children.
13. **Maintain Appliance With Care -** Keep cutting edge sharp and clean for best performance and to reduce the risk of injury. Follow instructions for lubricating and changing accessories. Keep handles dry, clean, and free from oil and grease.

14. **Check Damaged Parts -** Before further use of the appliance, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by a qualified technician unless indicated elsewhere in this manual.
15. Wear full eye protection and protective clothing.
16. If electrolyte contacts the skin, wash it off immediately with water.
17. If electrolyte contacts the eyes, flush thoroughly and immediately with water. Seek medical attention.
18. **Stop working when you feel tired or exhausted.** Make regular breaks to rest.
19. **DANGER! People with pacemakers should not use pole saws.** Pole saws produce strong electromagnetic fields that can cause pacemaker interference or pacemaker failure. People with pacemakers should consult their physician(s) for advice.
20. **When servicing use only identical replacement parts.**
21. **Disconnect Appliance -** Remove Battery Pack when not in use, before servicing, when changing accessories such as blades, and the like.
22. **Carefully follow cutting procedures explained in this manual.** They are specifically planned to reduce risk to the operator.
23. **Lock pole in place securely before using Pole Saw.**

Lithium Battery Safety Warnings



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



1. **Keep Battery Pack dry.**
2. **DO NOT DO ANY OF THE FOLLOWING TO THE BATTERY PACK:**
   a. **Open,**
   b. **Drop,**
   c. **Short-circuit,**
   d. **Puncture,**
   e. **Incinerate, or**
   f. **Expose to temperatures greater than 265°F.**
3. Charge Battery Pack only according to its Charger's instructions.
4. Inspect Battery Pack before every use; do not use or charge if damaged.

Battery Charger Safety

Follow safety instructions included with this item's charger (sold separately).

Vibration Hazard

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 appliance. 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 appliances with the lowest vibration when there is a choice between different processes.
5. Include vibration-free periods each day of work.
6. Grip appliance as lightly as possible (while still keeping safe control of it). Let the appliance do the work.
7. To reduce vibration, maintain the appliance as explained in this manual. If any abnormal vibration occurs, stop use immediately.

Pole Saw Safety

1. **Keep all parts of the body away from saw chain.** Do not remove cut material or hold material to be cut when saw chain is moving. Make sure the switch is off when clearing jammed material. Saw chain continues to move after the switch is turned off. A moment of inattention while operating the pole saw may result in serious personal injury.
2. **Carry the pole saw by the handle with the saw chain stopped.** When transporting or storing the pole saw, always fit the saw chain device cover. Proper handling of the pole saw will reduce possible personal injury from the saw chain.
3. **Hold Pole Saw by insulated gripping surfaces only,** because the saw chain may contact hidden wiring. Saw chains contacting a “live” wire may make exposed metal parts of the pole sw “live” and could give the operator an electric shock.
4. **Do not use the pole saw in bad weather conditions,** especially when there is a risk of lightning. This decreases the risk of being struck by lightning.
5. **To reduce the risk of electrocution, never use near any electrical power lines.** Contact with or use near power lines may cause serious injury or electric shock resulting in death.
6. **Always use two hands when operating the pole saw.** Hold the pole saw with both hands to avoid loss of control.
7. **Always use head protection when operating the pole saw overhead.** Falling debris can result in serious personal injury.
8. **Keep handles dry, clean, and free from oil and grease.**
9. **Do not touch guide bar tip to any object.** Tip contact may cause guide bar to move suddenly upward and backwards.
10. **Do not operate Pole Saw from within a tree.** Operation of tool while up in a tree may result in personal injury.
11. **Keep proper footing and operate the garden power tool 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 garden power tool.
12. **When cutting a limb that is under tension, be alert for spring back.** When the tension in the wood fibers is released, the limb may strike the operator and/or throw the tool out of control.
13. **Do not use for bore cutting, felling or bucking.**
14. **Keep bystanders and other workers at least 50 feet from the work area.**
15. **Do not operate within 50 feet of electrical lines.**
16. **Use extreme caution when cutting brush and saplings.** The slender material may catch the saw chain and be whipped around.
17. **Follow instructions for lubricating, chain tensioning and changing accessories.** Improperly tensioned or lubricated chain may either break or increase the chance for kickback.
18. **Kickback is the result of tool misuse and/or incorrect operating procedures or conditions.** 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.

    Kickback can be avoided by taking proper precautions as given below:

    a. Maintain a firm grip, with thumbs and fingers encircling the Pole 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 garden power tool.

    b. Do not overreach. This helps prevent unintended tip contact and enables better control of the garden power tool 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.
19. **Use for cutting wood only.** Do not use for cutting plastic, masonry or non-wood building materials.
20.  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.

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

22. **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.

SAVE THESE INSTRUCTIONS.

Grounding

⚠WARNING

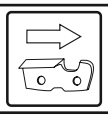
TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING: Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the charger. Do not use the charger if the power cord or plug is damaged. If damaged, have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

	Double Insulated
V	Volts
~	Alternating Current
A	Amperes
n_0 xxxx/min.	No Load Revolutions per Minute (RPM)
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.
	Read the manual before set-up and/or use.

	WARNING marking concerning Risk of Fire. Do not cover Charger ventilation ducts. Charge on fireproof surface only.
	WARNING marking concerning Risk of Electric Shock. Properly connect Charger's power cord to appropriate outlet.
	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 Saw Chain Orientation. Cutters must face in direction of rotation.

Specifications

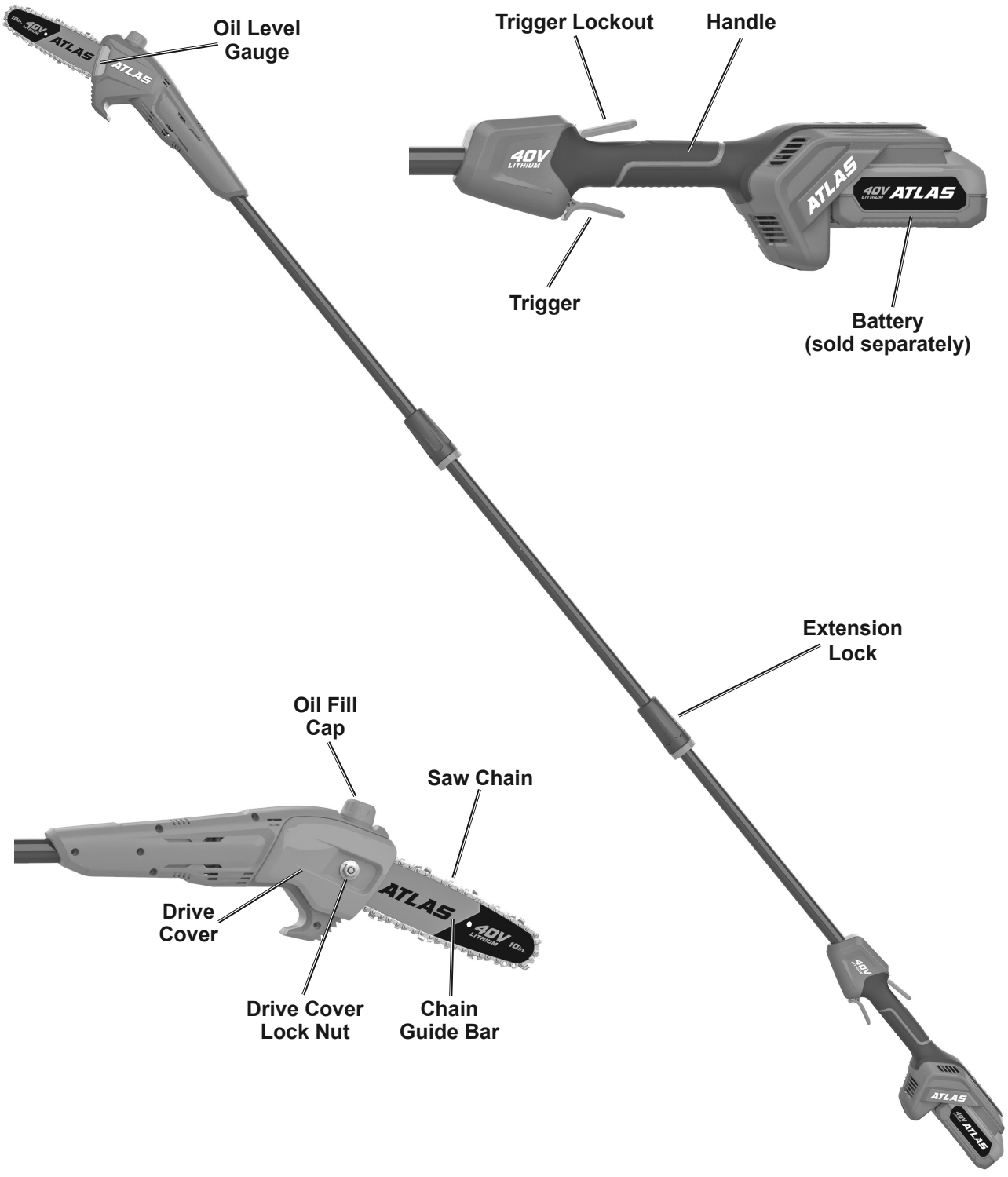
Battery Type	Atlas Li-Ion 40V (57008) or 40/80V (57014) (sold separately)
Charger Type	56993 or 56997 Atlas Li-ion (sold separately)
Guide Bar	10″ Sprocket Nose Model: M1501039-1318TL
Saw Chain	10″ Bar Length, 3/8″ Pitch, 0.050″ Gauge Model: Trilink CL15039X
Lubrication	Bar and chain oil (sold separately) If not available, SAE 30W motor oil may be used

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 14.

Functions



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

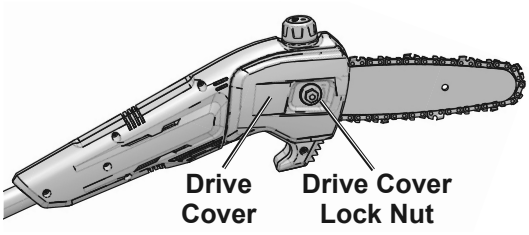
⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Release the Trigger and remove Battery Pack before assembling or making any adjustments.

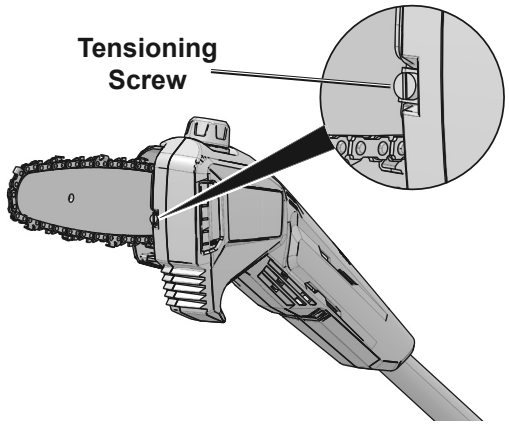
Install Guide Bar and Saw Chain

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

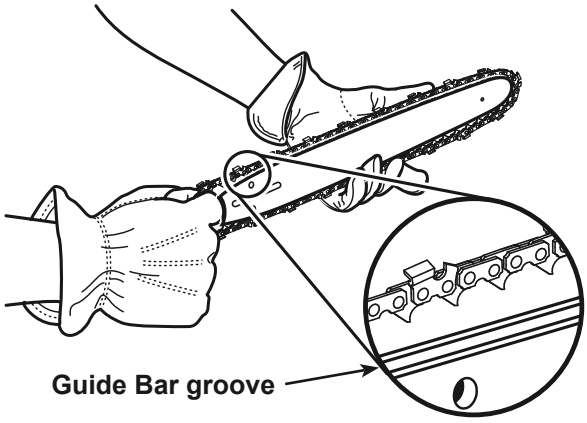
1. **BEFORE FIRST USE:** Soak Saw Chain in bar and chain oil (sold separately) overnight.
2. Loosen Drive Cover Lock Nut, then remove Drive Cover.



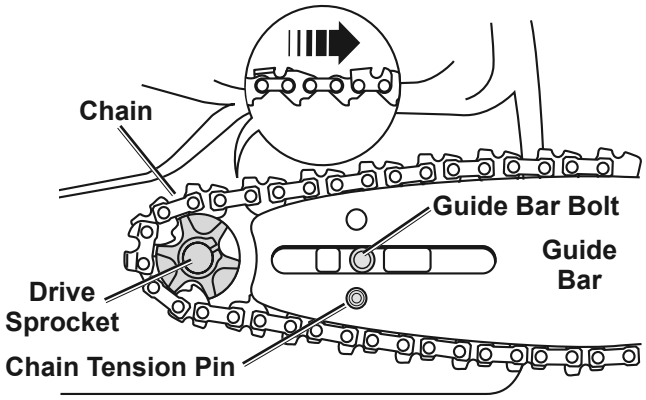
3. Loosen Tensioning Screw.



4. Place the Saw Chain over the Guide Bar. The cutters of the Saw Chain must face away from the saw head assembly along the top edge of the Guide Bar. Fit the Drive Links into the groove around the Guide Bar.



5. Place the slotted end of the Chain Guide Bar over the Guide Bar Bolt and insert the Chain Tension Pin into the lower hole in the Guide Bar.

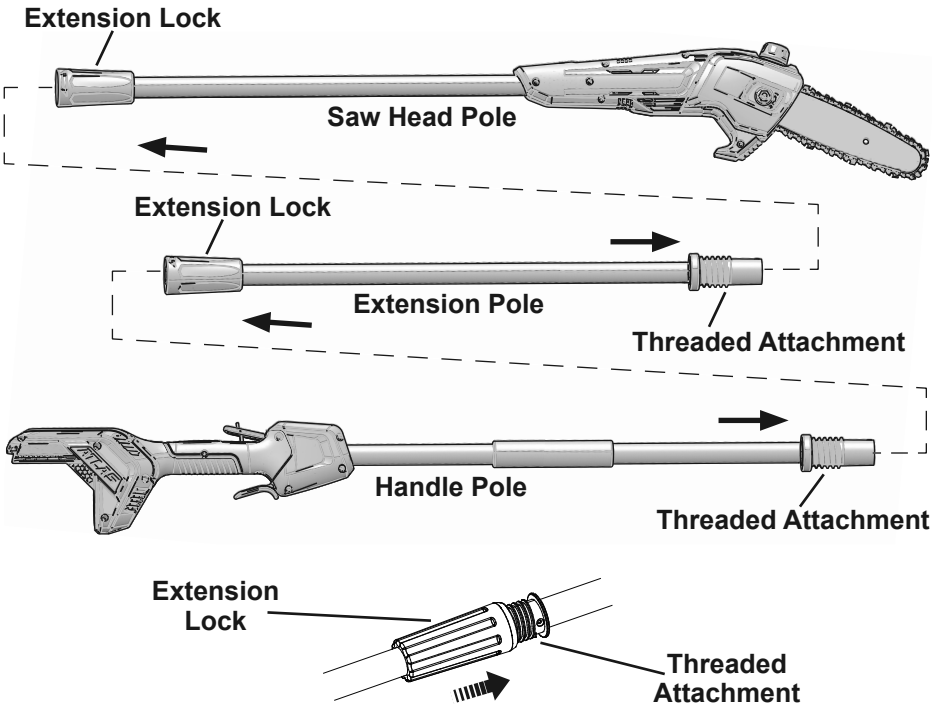


6. Place the Saw Chain over the Drive Sprocket. Check again that the Saw Chain cutters are aligned properly and the Saw Chain drive links are seated completely in the slot of the Guide Bar. The cutters of the Saw Chain must face away from the saw head along the top edge of the Guide Bar.
7. Tighten Tensioning Screw until bottoms of cutters contact bottom of Guide Bar, then tighten an additional 1/4 turn.
8. Replace the Drive Cover and Drive Cover Lock Nut. Tighten the Nut so that the Cover is snug, but not tight.
9. Tension the Saw Chain following the steps in *Tension Saw Chain* on page 8.

Assemble Pole Saw

1. Insert the threaded attachment on the extension pole onto the saw head pole. Use arrows on attachment and pole to align components properly. Slide the Extension Lock up and screw clockwise onto the threaded attachment to secure in place.
2. Insert the threaded attachment on the handle pole onto the extension pole. Use arrows on attachment and pole to align components properly. Slide the Extension Lock up and screw clockwise onto the threaded attachment to secure in place.

WARNING! To prevent serious injury, check Extension Locks for tightness periodically during use.



Tension Saw Chain

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

NOTICE: To prevent damage to Saw Chain, *do not tension hot chain.* Let chain cool before tensioning.

Check tension:

a. Before every use.

b. Often during first half hour of use.

c. Periodically during use.

1. Snap Test: Pull Saw Chain away from bottom of Guide Bar, then let go. Saw Chain should snap back to its original position, solidly contacting bottom of Guide Bar.
2. Pull Saw Chain by hand around Guide Bar several times. It should feel snug and move freely around Guide Bar.
3. To adjust tension, loosen the Drive Cover Lock Nut on the Drive Cover. It is not necessary to remove the Drive Cover to adjust chain tension.
4. Adjust tension as necessary by tightening or loosening the Tensioning Screw, then repeating steps 1 and 2, until proper tension is achieved. Tighten Lock Nut when tensioning is complete.

Fill Automatic Oiler Reservoir

NOTICE: To prevent damage to Saw Chain, Guide Bar and Drive Sprocket, keep Oil Reservoir full. Do not operate Pole Saw without oil. Do not put used oil in Reservoir.

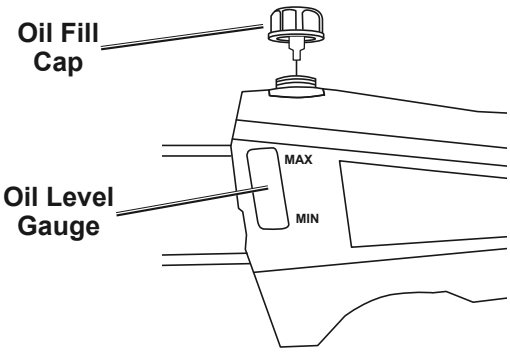
Note: Oil is automatically applied to the Saw Chain during operation.

Fill Oil Reservoir:

a. Before every use.

b. When oil level reaches MIN mark on Oil Level Gauge.

1. Remove Oil Fill Cap.
2. Using funnel, fill tank with bar and chain oil (sold separately).
3. Use clean cloth to remove excess oil.
4. Replace Oil Fill Cap and tighten.



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.

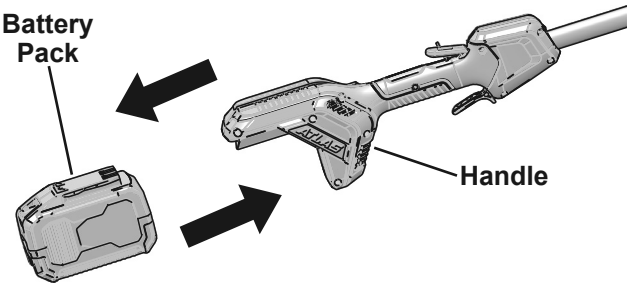
- Before operating the gardening appliance, put on ANSI-approved safety goggles, hard hat and other safety gear. Safety goggles and other safety gear are sold separately.

Charging Battery Pack

Charge Battery Pack before using this tool. Follow instructions included with Battery Charger (both sold separately).

Installing and Removing Battery Pack

1. To install: Slide Battery Pack into slot on Handle until it clicks into place.
2. To remove: Press the Battery Pack Release Button and pull Battery Pack out of slot.



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.

Operation

⚠ DANGER

TO PREVENT SERIOUS INJURY AND DEATH:

- **Wear ANSI-approved safety goggles, hard hat and steel-toed boots during use.**
- **Avoid kick back. Do not touch Guide Bar tip to any object.** Tip contact may cause guide bar to move suddenly upward and backwards.
- **Do not operate Pole Saw with one hand.** Only hold Pole Saw with both hands. Do not stand directly under branch being cut.
- **Only stand on fixed, secure and level surface**. Do not stand on a ladder or other support.
- **Do not operate within 50 feet of electrical lines.**

BEFORE EVERY USE:

a. Check oil level, add oil as necessary **(see Fill Automatic Oiler Reservoir on page 8).**

b. Run Pole Saw at half throttle for several minutes **(see step 1 below).**

c. Stop motor and remove Battery Pack**. Let chain cool,** then check tension and adjust as necessary **(see Tension Saw Chain on page 8).**

d. Make sure Saw Chain is sharp.

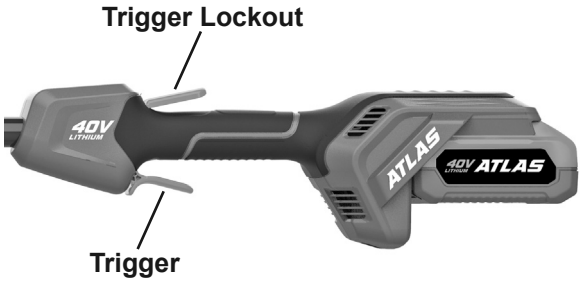
e. Make sure Automatic Oiler is distributing oil.

DURING EVERY USE:

a. Check tension often during the first half hour of use and periodically during use. Adjust tension as necessary **(see Tension Saw Chain on page 8).**

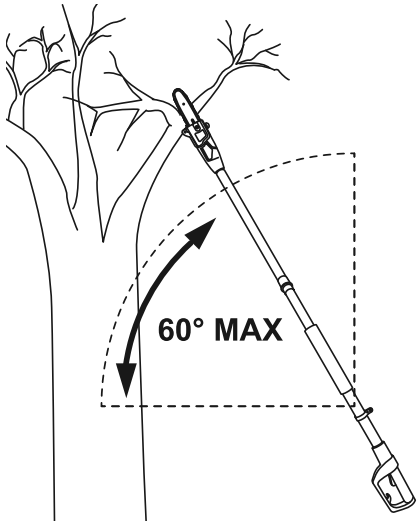
b. Check oil level every 10 minutes of use. Fill oil reservoir as needed **(see Fill Automatic Oiler Reservoir on page 8).**

1. To start, push and hold the Trigger Lockout Switch, then squeeze and hold Trigger. Release Lockout Switch. To stop, release Trigger.



2. Maintain a firm grip, with thumbs and fingers encircling the Pole Saw's handle and pole, with both hands on the Saw. Position your body and arm to allow you to resist kickback forces.

3. Hold the Pole Saw to the side of your body at maximum 60° from horizontal. Do not overreach.



4. Make sure Saw is running at full speed before starting a cut.

5. Cut lower branches first.

6. Do not force Pole Saw—let Pole Saw do the work.

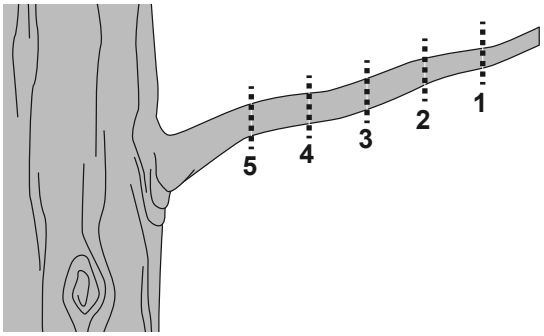
7. Remove the Pole Saw from a cut while it is running.

WARNING! To prevent serious injury, if branch starts to fall, causing the saw to bind, leave the saw and get away from where the saw and branch are likely to fall immediately.

8a. Cutting Long Branches

a. Make first cut 4" to 6" from end of branch.

b. Make next cuts 4" to 6" from the previous cuts, working toward the trunk.



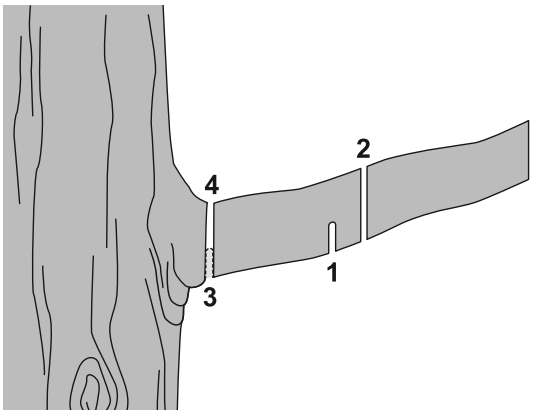
8b. Cutting Thick Branches:

a. Make first cut 6" away from trunk, on underside, 1/3 way into branch.

b. Make second cut 2" away. Sever branch from the top.

c. Make third cut close to the trunk, on underside, 1/3 way into branch.

d. Make fourth cut from top, severing branch.



9. When finished:
   a. Release Trigger and remove Battery Pack.
   b. Clean, then store according to **Cleaning, Maintenance and Lubrication on page 12**.

ATLAS™

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

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION OR ELECTRIC SHOCK: Release the Trigger and remove the Battery Pack before performing any inspection, maintenance, or cleaning procedures.

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 EACH USE,** tension Saw Chain and add bar and chain oil to oil reservoir.
3. **PERIODICALLY OR WHEN REPLACING SAW CHAIN,** turn the Guide Bar over to distribute the wear on it.
   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 **(see Determining Guide Bar Wear on page 13).**

<u>WARNING!</u> Replace the Saw Chain and Guide Bar only with an identical Saw Chain and Guide Bar.

4. **AFTER USE:**
   a. Remove Drive Cover, Saw Chain and Guide Bar.
   b. Scrape debris loose from inside Drive Cover and around Drive Sprocket, then wipe with clean cloth and mild soap and water. *Do not use solvents. Do not immerse tool in liquid*.
   c. Remove sawdust and sap from the Guide Bar's Groove using a bar groove cleaning tool (sold separately).
   d. Wipe Guide Bar with clean cloth, including oil passages, then lubricate with bar and chain oil.
   e. Wipe debris from Saw Chain, then lubricate with bar and chain oil.
   f. Replace Guide Bar, Saw Chain and Drive Cover. Leave Saw Chain loose during storage.
   g. Clean outside surfaces with a clean, dry cloth. If necessary use mild soap and water.
   h. Place Chain Cover over Saw Chain, then store Pole Saw in a dry, secure location away from children.
   i. For long term storage or if storing Pole Saw in a vertical position, remove all residual oil from the oil reservoir.
5. Li-Ion BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.
   Do not short, incinerate or open battery.

Sharpening/Replacing Saw Chain

1. Have the cutters sharpened by a qualified technician when:
   a. The sawdust becomes powder-like.
   b. You can't make the cut without extra force.
   c. The Pole Saw does not cut straight.
   d. Vibration increases.
2. A Saw Chain that is damaged or too worn to be restored by sharpening will need to be replaced.

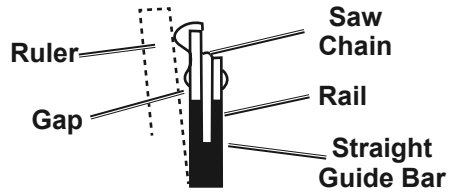
<u>WARNING!</u> Replace the Saw Chain only with an identical Saw Chain.

Replacing Drive Sprocket

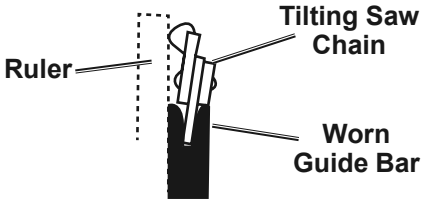
Have the Drive Sprocket replaced by a qualified technician when the Saw Chain is replaced.

Determining Guide Bar Wear

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



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



PLEASE READ THE FOLLOWING CAREFULLY

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Parts List

Part	Description	Qty
1	Sprocket	1
2	Ring Φ10	1
3	Chain Tension Bolt	1
4	Chain Tension Screw	1
5	Chain Bar Plate	1
6	Screw	3
7	Drive Cover	1
8	Sleeve	1
9	Drive Cover Lock Nut	1
10	Chain Bar Plate Gasket	1
11	Chain Guide Bar Sheath	1
12	Saw Chain	1
13	Chain Guide Bar	1
14	Oil Tank	1
15	Oil Tank Pull Line	1
16	Oil Tank Seal Ring	1
17	Oil Cap	1
18	Oil Pump Assembly	1
19	Oil Pump Pressure Plate	1
20	Screw St3x8-F	2
21	Oil Outlet Tube	1
22	Tie	3
23	Oil Inlet Tube	1
24	Right Housing	1
25	Screw St4.2x16-F	9
26	Left Housing	1
27	Motor	1
28	Screw	2
29	Snap Ring	1
30	Cam	1
31	Bevel Gear	1
32	Output Shaft	1
33	Deep Groove Ball Bearing	2
34	Motor Mounting Bracket	1
35	Head Bracket	1

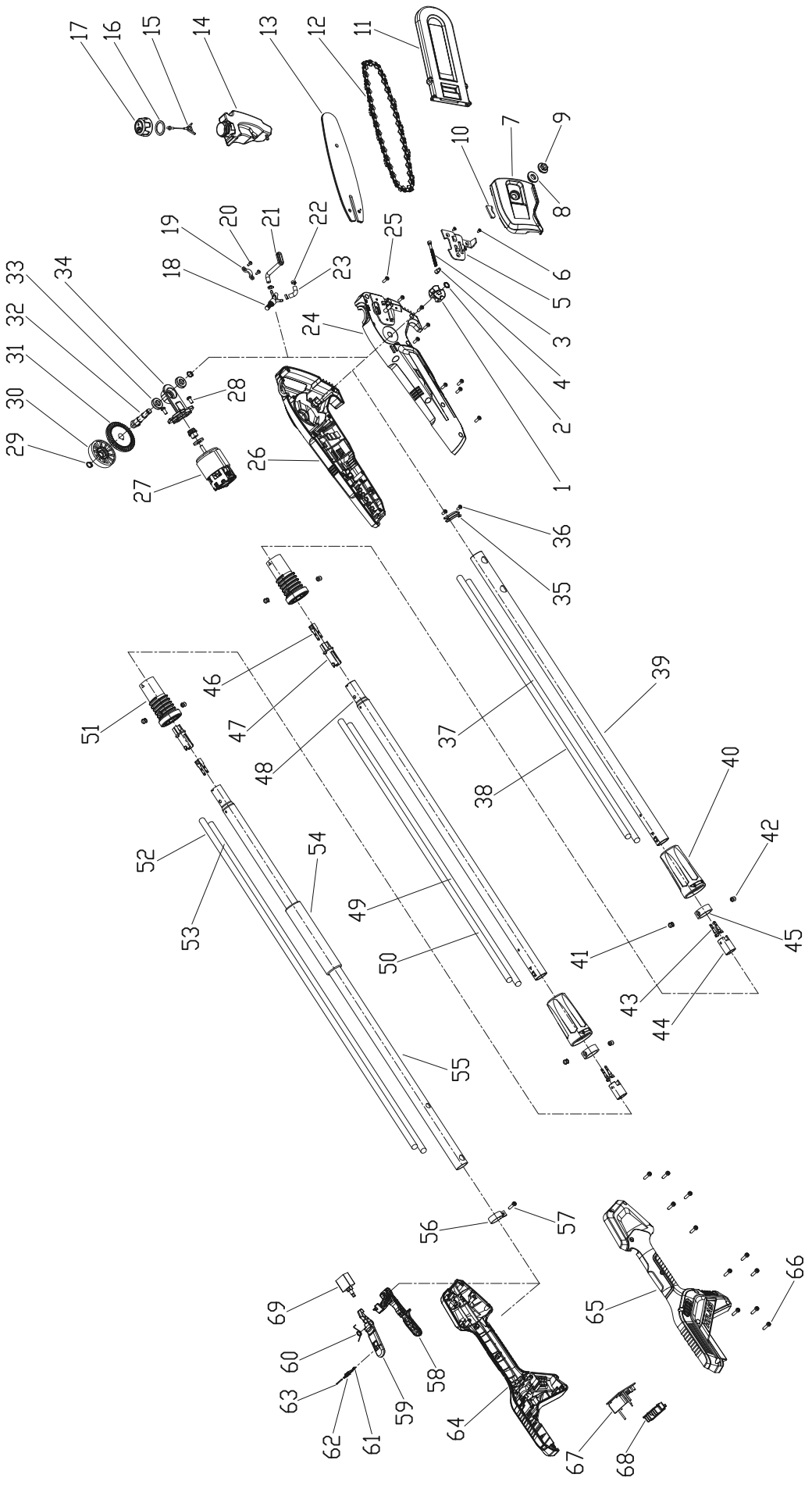
Part	Description	Qty
36	Screw	2
37	Wire (Red)	1
38	Wire (Black)	1
39	Upper Tube	1
40	Extension Lock	2
41	Rivet	4
42	Rivet	4
43	Female Connector	4
44	Female Insert	2
45	Lock Ring	2
46	Male Insert	4
47	Male Connector	2
48	Middle Tube	1
49	Wire (Black)	1
50	Wire (Red)	1
51	Shaft Cover	2
52	Wire (Black)	1
53	Wire (Red)	1
54	Sponge Sleeve	1
55	Lower Tube	1
56	Retaining Ring	1
57	Screw St4.2x16-F	1
58	Trigger	1
59	Trigger Lockout	1
60	Spring	1
61	Spring	1
62	Lockout Button	1
63	Cotter Pin	1
64	Left Handle	1
65	Right Handle	1
66	Screw St4.2x16-F	11
67	PCB	1
68	Insert Seat	1
69	Switch	1

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.

Assembly Diagram



Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

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

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