



# 18-IN Electric Chain Saw

Model No. SWJ701E

Form No. SJ-SWJ701E-880E

A Division of Snow Joe, LLC

## OPERATOR'S MANUAL

# IMPORTANT!

## Safety Instructions

### All Operators Must Read These Instructions Before Use

### General Power Tool Safety Warnings

#### WARNING

**Read all safety warnings and all instructions.** All users of this chainsaw must first carefully read this maintenance and operating manual and familiarize themselves fully with all controls for its correct operation.

### Save all warnings and instructions.

### SAFETY RULES


- 1. Replacement Parts.** When servicing, use only identical replacement parts.
- 2. Polarized Plugs.** To reduce the risk of electrical shock, this equipment has a polarized plug (one blade is wider than the other). The plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.
- 3. Keep Work Area Clean.** Cluttered areas invite injuries. Do not start cutting until you have a clear work area, secure footing, and a planned retreat path from the falling tree.
- 4. Consider Work Area Environment.** Use extreme caution when cutting small size brush and saplings because the slender material may catch the saw chain and be whipped toward you or pull you off balance.
  - Do not operate a chain saw in a tree unless specifically trained to do so.
  - When cutting a limb that is under tension, be alert for spring back so that you will not be struck when the tension in the wood fibers is released.
  - Do not expose chain saw to rain.
  - Do not use chain saw in damp or wet locations.
  - Do not use chain saw in presence of flammable liquids or gases.
- 5. Guard Against Electric Shock.** Prevent body contact with grounded surfaces. For example: metal pipes, wire fences.
- 6. Keep Children Away.** Do not let visitors contact chain saw or extension cord. All visitors should be kept away from work area.
- 7. Store Idle Chain Saw.** When not in use, chain saws should be stored in a dry, and high or locked-up place - out of the reach of children. When storing saw, use a scabbard or carrying case.
- 8. Don't Force Chain Saw.** It will do the job better and safer at the rate for which it was intended.
- 9. Use Right Tool.** Cut wood only. Don't use chain saw for purpose not intended - for example - Don't use chain saw for cutting plastic, masonry, non-wood building materials.
- 10. Dress Properly.** Do not wear loose clothing or jewellery. They can get caught in moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- 11. Use Safety Glasses.** Also use safety footwear; snug fitting clothing; protective gloves; hearing and head protection.
- 12. Carrying Saw.** Carry the chain saw by the front handle with the saw stopped, finger off the switch, the guide bar and saw chain to the rear.
- 13. Maintain Chain Saw with Care.** Inspect chain saw cords periodically and if damaged, have repaired by authorized service facility.
  - Keep cord clear of the chain and operator at all times. Never carry saw by the cord or pull it to disconnect from receptacle. Keep cord away from oil and sharp edges.
  - Inspect extension cords periodically and replace if damaged.
  - Keep tools sharp and clean for better and safer performance.
  - Follow instructions for lubricating and changing accessories.
  - Keep handles dry, clean, and free from oil and grease.
- 14. Disconnect Chain Saw.** Disconnect chain saw when not in use, before servicing, and when changing accessories and attachments, such as saw chain and guard.

- 15. Outdoor Use Extension Cords.** Use only extension cords intended for use outdoors and so marked.
- 16. Stay Alert.** Watch what you are doing. Use common sense. Do not operate chain saw when you are tired. Keep all parts of the body away from the saw chain when the motor is operating.

Before you start the saw, make sure the saw chain is not contacting anything.

- 17. Check Damaged Parts.** Before further use of the chain saw, 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 conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use chain saw if switch does not turn it on and off. Do not operate a chain saw that is damaged, improperly adjusted, or is not completely and securely assembled. Be sure that the saw chain stops moving when the trigger is released.

**18. Guard Against Kickback.**

 **WARNING: 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 lightning fast 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 that could result in serious injury to user. The following precautions should be followed to minimize kickback.

- a. Grip Saw Firmly. Hold the chain saw firmly with both hands when the motor is running. Use a firm grip with thumbs and fingers encircling the chain saw handles. **Note:** If a manual oil-regulator control is provided, additional or modified instructions regarding its use is to be provided.
- b. Do not over reach.
- c. Keep proper footing and balance at all times.
- d. Don't let the nose of the guide bar contact a log, branch, ground or other obstruction.
- e. Don't cut above shoulder height.
- f. Use devices such as low kickback chain, guide bar nose guard, chain brakes and special guide bars that reduce the risks associated with kickback.

- g. Only use replacement bars and chains specified by the manufacturer or the equivalent.

- 19. Power Supply.** Connect chain saw to correct voltage, that is, be sure that the voltage supplied is the same as that specified on the nameplate of the tool. Intended/ not intended use.

This chain saw is only designed for cutting of brushes, trunks or timber beams up to a diameter according to the guide bar length. It is only allowed to cut wood. Every other use of the machine is a not intended use. Furthermore a professional use for tree services is strictly forbidden.

During the use of the chain saw the user has to arrange for personal protective equipment according to the manual and also to the named pictograms on the chain saw. Parts of the intended use are also the details in the manual regarding safety warnings and references for use/maintenance. People/ User who work with the chain saw or make maintenances on it must be familiar with the manual. It is only allowed to assemble on the chain saw the manufacturers original or approved spare parts (guide bar; saw chain e.g.) as well as the allowed combinations of guide bar/saw chain as named in the manual.

The user and not the manufacturer is liable for every accident which results from a combination of not intended use or a not allowed change of the construction on the machine.

The chain saw is only intended to use outdoor.

**Residual risks Intended / not intended use**

Even with the intended use of the appliance there is always a residual risk, which can not be prevented. According to the type and construction of the appliance the following potential hazards might apply:

- Contact with exposed saw teeth of the saw chain (cutting hazards).
- Access to the rotating saw chain (cutting hazards).
- Unforeseen, abrupt movement of the guide bar (cutting hazards).
- Flung out of parts from the saw chain (Cutting/ injection hazards).
- Flung out of parts of the work piece.
- Skin contact with the oil.
- Loss of hearing, if no required ear protection used during work.
- There may be health risks caused by breathing in the wood dust, especially sawing of oak, beech and medium density fireboard.

## General Safety Instructions for chain saw user

- It is important that this tool be protected by the use of a residual current device.
- Cluttered areas and benches can cause accidents.
- Read the following safety instruction before attempting to operate this device. Be aware of tool's operation range and limitations as well as its dangers.
- When not in use, power tools must be stored in a dry place and locked up securely, out of the reach of children and unauthorised person.
- When not in use, when transporting between work locations, or when carrying out any form of maintenance, the tool must be disconnected from mains power and the saw guard must be fitted.
- Never allow the chainsaw near your body or your clothing.
- When switching the chainsaw on ensure the chain is not touching anything.
- Do not start up or do not use the chainsaw near people, animals or obstructions.
- During operation we recommend keeping a minimum distance of 10 m from the tool to any of the above hazards.
- Always operate the chainsaw with both hands. The right hand on the rear handle and the left hand on the front handle, see page 5 (Know your electric chain saw).

**⚠ WARNING:** Never attempt to operate 'left-handed' as serious personal injury may result.

- Stand in a safe and comfortable position with both feet firmly planted on a level and secure surface.
- Never carry the chainsaw by the cable.
- Keep the cable away from heat sources, oils, or sharp edges.
- When sawing, do not use the chainsaw above your shoulder height.
- The operator is responsible for any accidents or hazards that may occur to other person or their belongings.
- Before starting the tool ensure that the power cord, including any extension cable in use, is clear of the cutting zone.
- Damaged cable must be replaced by an authorised service centre before continuing work.

## LUBRICATION SYSTEM

- The chain is automatically lubricated.
- Use only new chain oil specifically formulated for chainsaws.

**⚠ WARNING:** Never use wasted oil, low quality oil, or insufficient oil. This could damage the pump; the bar and the chain and may result in serious personal injury.

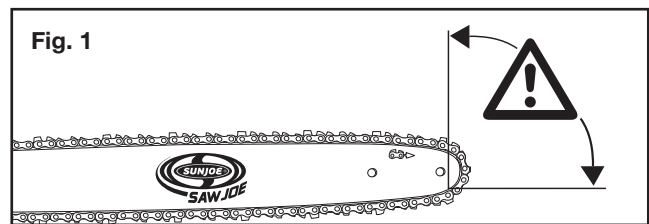
- Check oil level before each work session, refill if less than  $\frac{1}{4}$  full.
- If the lubrication system does not work properly, check if the oil filter and all oil-ways are clean and free from obstructions. If it is still not working, contact an authorized service center.

## SAFETY CHAIN BRAKE

### Kickback

Kickback is a phenomenon whereby the tip of the saw flies quickly and uncontrollably upwards towards the operator. It happens with little or no warning and can be caused by cutting with the blade tip, if the saw gets pinched in its cut, or if the saw contacts debris. The risk of kickback can never be completely eliminated but it can be reduced by:

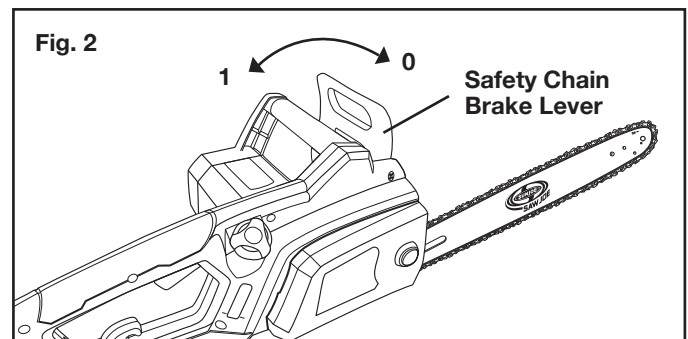
- Ensuring the work area is free of debris.
- Not allowing the chain to get pinched.
- Not cutting with the danger area at the tip of the saw. (Fig. 1)



In the event of a kickback occurring, the left hand should come into contact with the chain brake stopping the chain immediately by moving it to position '0'. (Fig. 2)

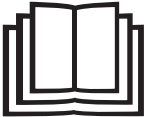







The operation of the chain brake must be checked prior to each use.

**⚠ WARNING:** To reset the chain brake, disconnect from the mains and snap it backwards (towards the operator) into position '1' (Fig. 2). Re-check the chain tension before re-starting.



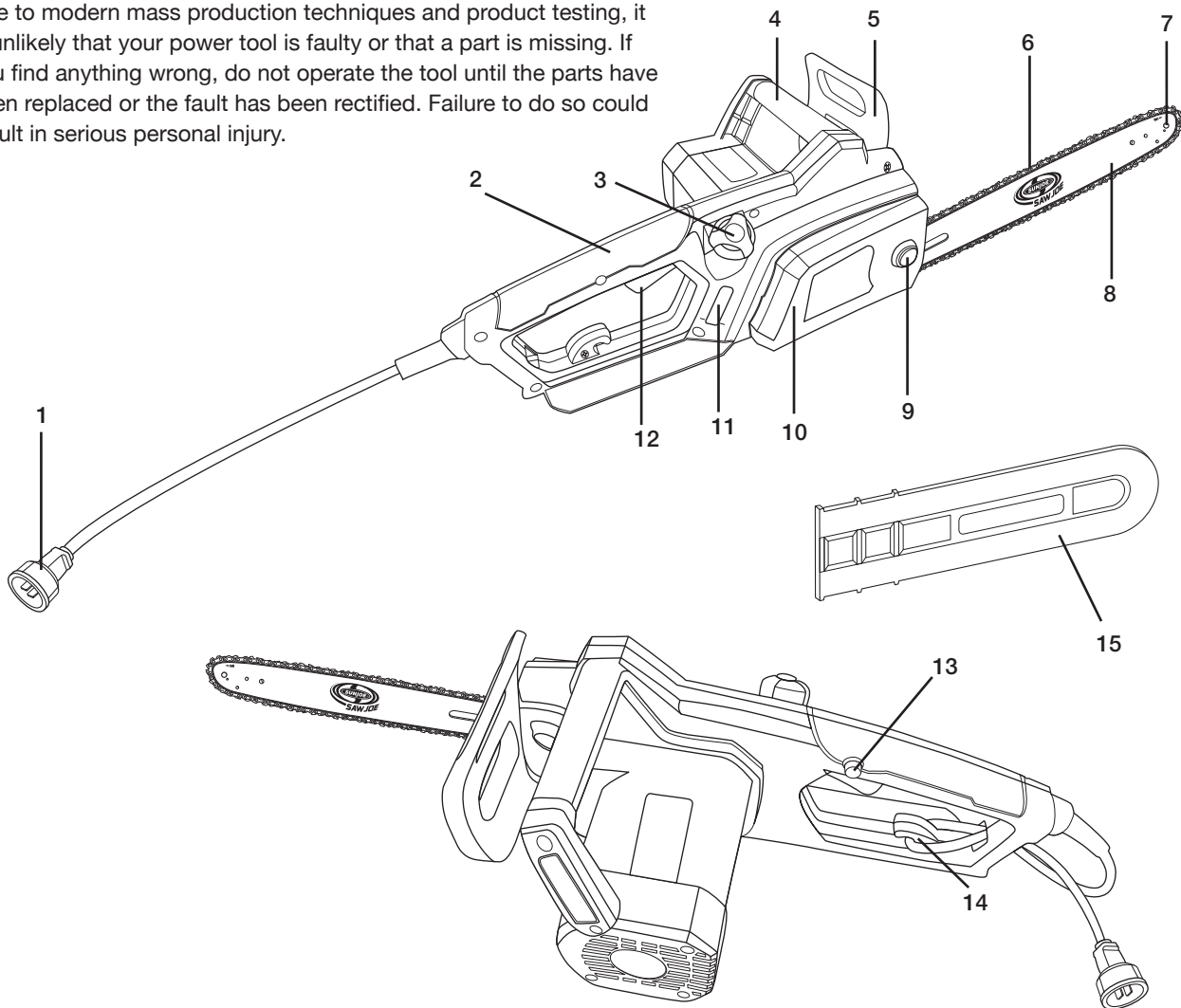
# Safety Symbols

The following table depicts and describes safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate.

SYMBOLS	DESCRIPTIONS
	<p>WARNING – To reduce the risk of injury, user must read instruction manual</p>
	<p>SAFETY ALERT – indicates a precaution, a warning or a danger</p>
	<p>Contact of the guide bar tip with any object should be avoided. Tip contact may cause the guide bar to move suddenly upward and backwards, which may cause serious injury to user.</p>
	<p>WARNING! To reduce the risk of electric shock, do not expose unit to water or operate unit on wet ground.</p>
	<p>Two hands are always to be used in operation of the chain saw.</p>
	<p>Remove the plug from the socket or mains immediately before carrying out any adjustments, servicing or maintenance or if the cable is damaged or cut.</p>
	<p>For protection against injury, wear safety goggles and ear protection.</p>
	<p>Wear protective gloves and non-slip footwear when using the machine and handling debris.</p>

## Know Your Electric Chain Saw (Fig. 3)

Due to modern mass production techniques and product testing, it is unlikely that your power tool is faulty or that a part is missing. If you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.




- |                             |                       |                                    |
|-----------------------------|-----------------------|------------------------------------|
| 1. Cable + Plug             | 6. Chain              | 11. Oil Outlet                     |
| 2. Rear Handle              | 7. Nose Sprocket      | 12. Main Switch                    |
| 3. Chain Oil Cap            | 8. Chain Guide Bar    | 13. Instant Safety Lock-Off Button |
| 4. Front Handle             | 9. Lock Knob          | 14. Cable Hook                     |
| 5. Safety Chain Brake Lever | 10. Chain Cover Plate | 15. Plastic Blade Guard            |

## Technical Data

<b>Rated Voltage</b>	120V ~ 60Hz	<b>LPA</b>	79dB(A)
<b>Rated Power</b>	14 AMP	<b>LWA</b>	109dB(A)
<b>Bar Chain Length</b>	18-IN	<b>Vibration Level</b>	110m/s <sup>2</sup>
<b>No Load Speed</b>	8000 rpm	<b>Oil Tank Capacity</b>	90 ml
<b>Max Cutting Length</b>	18-IN	<b>Weight</b>	9.7 lbs



## Bar and Chain Assembly

1. Place the chain in the groove of the chain guide bar. **Make sure to the correct placement and running direction as shown on the chain guide bar. (If chain is placed in the wrong direction it will not cut.)** 
2. Place the chain around the drive socket and the fastening bolt fits into the opening slot on the chain guide bar. The chain tensioning peg fits into the hole of the chain guide bar. If needed, adjust chain tensioning screw to bring tensioning peg in alignment with the hole in the chain bar.
3. Check that all parts are installed properly and in alignment.
4. Install chain cover plate and tighten locking knob.

## SWITCH ON AND OFF

- Connect the tool to an approved extension cord and outlet.
- Depress the safety lock-off button (13) while squeezing the main switch (12) shown on page 5.
- Release the safety lock-off button and the tool will continuously run.
- Releasing the main switch stops the tool.


## TENSIONING THE CHAIN

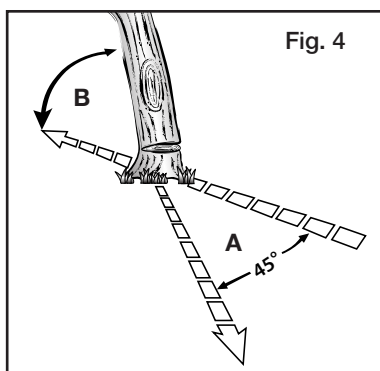
1. Adjust tension with a screwdriver and turn the tensioning peg screw clockwise or counterclockwise to achieve the proper tension.
2. The correct tension is achieved with the chain in the middle of the bar can only be lifted by approximately 3-4 mm.


## GENERAL CUTTING SUGGESTION

### • FELLING


Felling is a term for cutting down a tree. Small trees up to 6-7 inch in diameter are usually cut in a single cut. Large trees require notch cuts. Notch cuts determine the direction the tree will fall.

 **WARNING:** An escape path (A) should be planned and cleared as necessary. The path should extend back and diagonally to the rear of the expected line of fall (Fig. 4).



 **CAUTION:** If felling a tree on a sloping ground, the chainsaw operator should keep on the uphill side of the terrain, as the tree is likely to roll or slide downhill after it's felled.


**NOTE:** Direct of fall (B) is controlled by the notching cut. Before any cuts are made, considering the location of larger branches and natural lean of the tree to determine direction of the tree that will fall.

 **WARNING:** Do not cut down a tree during high winds or if there is a danger to property. Consult a tree professional. Do not cut a tree if there is a danger of striking power or telephone cable.

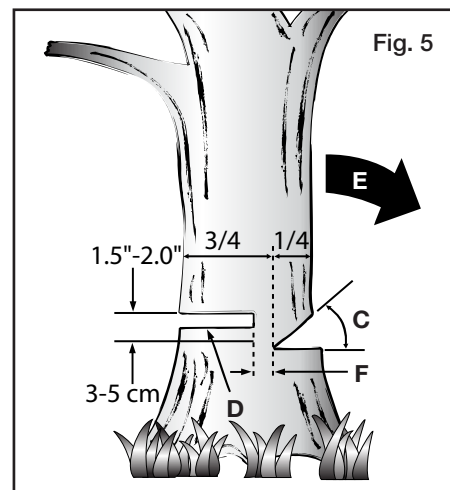
Normally felling consists of 2 main cutting operations, notching (C) and making the felling cut (D).

Start making the upper notch cut (C) on the tree facing the felling direction (E). Be sure you don't make the lower cut too deep into the trunk.


The notch (C) should be deep enough to create a hinge (F) of sufficient width and strength. The notch should be wide enough to direct the fall of the tree for as long as possible.

 **WARNING:** Never walk in front of a tree that has been notched.

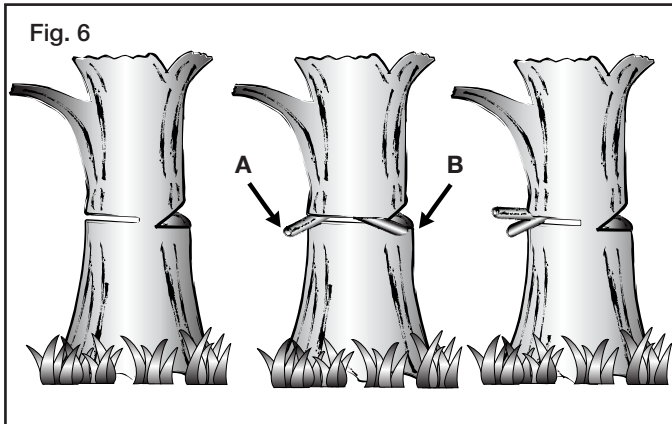
Make the felling cut (D) from the other side of the tree and 1.5 - 2.0 inches above the edge of notch (C) (Fig. 5).



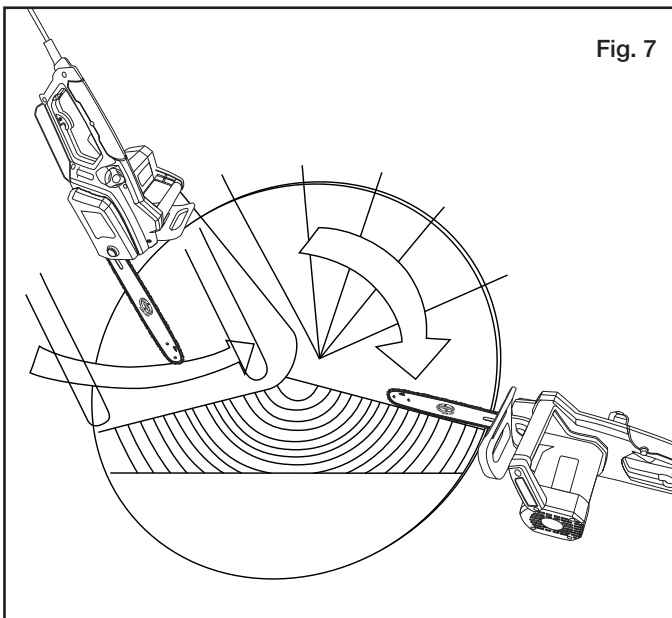
Never saw completely through the trunk. Always leave a hinge (F). The hinge guides the tree. If the trunk is completely cut through, control over the felling direction is lost. Insert a wedge or felling lever in the cut (D) well before the tree becomes unstable and starts to move. This will prevent the guide bar from binding in felling cut if you have misjudged the falling direction. Make sure no bystanders have entered the range of the falling tree before you push it over.

 **WARNING:** Before making the final cut, always recheck the area for bystanders, animals, and/or obstacles.

1. Use wooden or plastic wedges (A) to prevent binding the bar or chain (B) in the cut (Fig. 6).



2. When diameter of wood being cut is greater than the bar length, make 2 cuts as shown (Fig. 6).

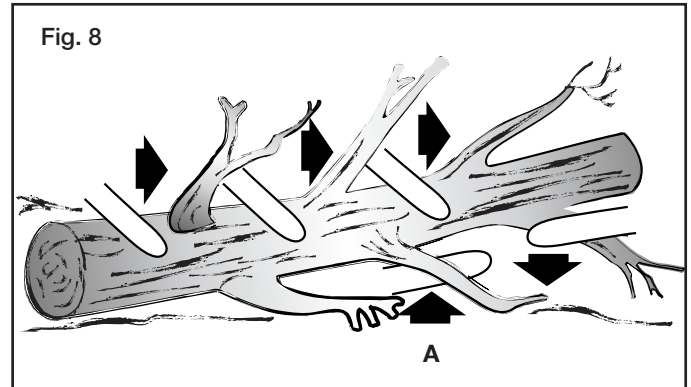


**⚠ WARNING:** As the felling cut (D) gets close to the hinge (F), the tree should begin to fall. Remove saw from cut, stop the engine, put the chainsaw down and leave the area by the retreat path (Fig. 4).

## LIMBING

Limbing a tree is the process of removing the branches from a fallen tree. Do not remove supporting limbs (Fig. 8). Branches under tension should be cut from the bottom up to avoid binding the chainsaw.

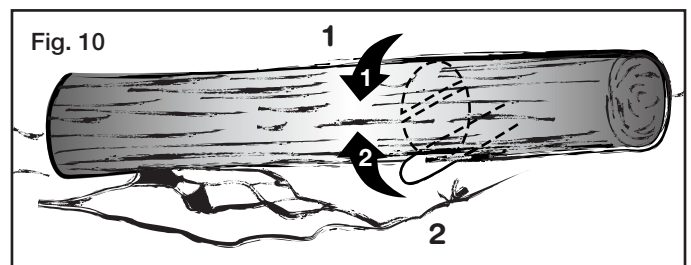
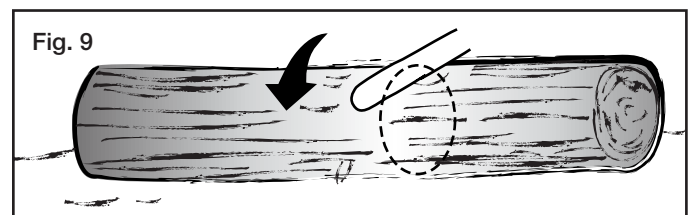
**⚠ WARNING:** Never cut tree limbs while standing on tree trunk.



## BUCKING

Bucking is cutting a fallen log into lengths. Make sure that you have a good footing and stand uphill of the log when cutting on sloping ground. If possible, the log should be supported so that the end to be cut off is not resting on the ground. If the log is supported at both ends and you must cut in the middle, make downward cut halfway through the log and then make the undercut. This will prevent the log from pinching the bar and chain. Be careful that the chain does not cut into the ground when bucking as this causes rapid dulling of the chain.

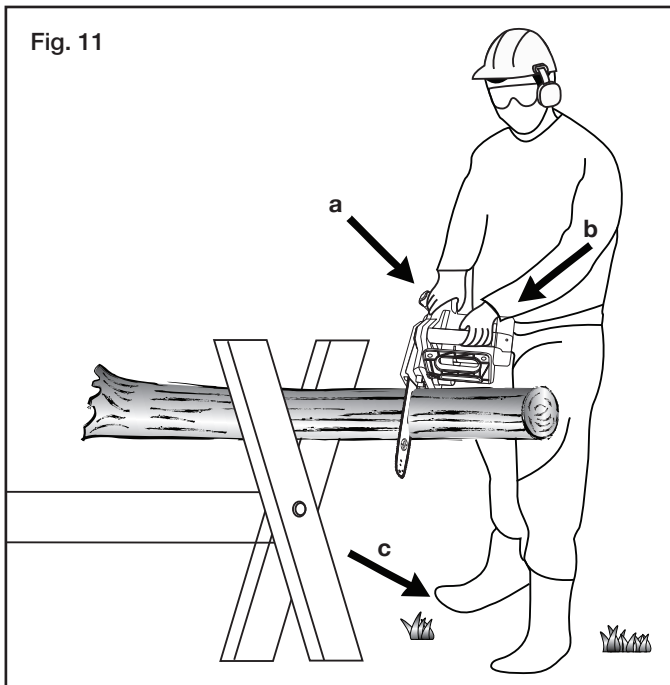
1. Log supported along entire length: cut from bottom (underbuck), being careful to avoid cutting into the ground (Fig. 9).
2. Log supported on 1 end proceed as if using a saw-horse: First, cut from bottom (underbuck) 1/3 diameter of log to avoid splintering. Second, cut from above (overbuck) to meet first cut avoid pinching.
3. Log supported on both ends: First, overbuck 1/3 diameter of log to avoid splintering. Second, underbuck to meet first cut and avoid pinching (Fig. 10).



**NOTE:** The best way to hold a log while bucking is to use a saw horse. When this is not possible, the log should be raised and supported by limb stumps or by using supporting logs. Be sure the log being cut is securely supported.

## BUCKING USING A SAWHORSE (Fig. 11)

- Hold the saw firmly with both hands and keep the saw to the right of your body while cutting.
- Keep the left arm as straight as possible.
- Keep weight on both feet.



## MAINTENANCE

The following suggestions deal with the daily maintenance of the chainsaw. In the event of failure contact an authorized service center.

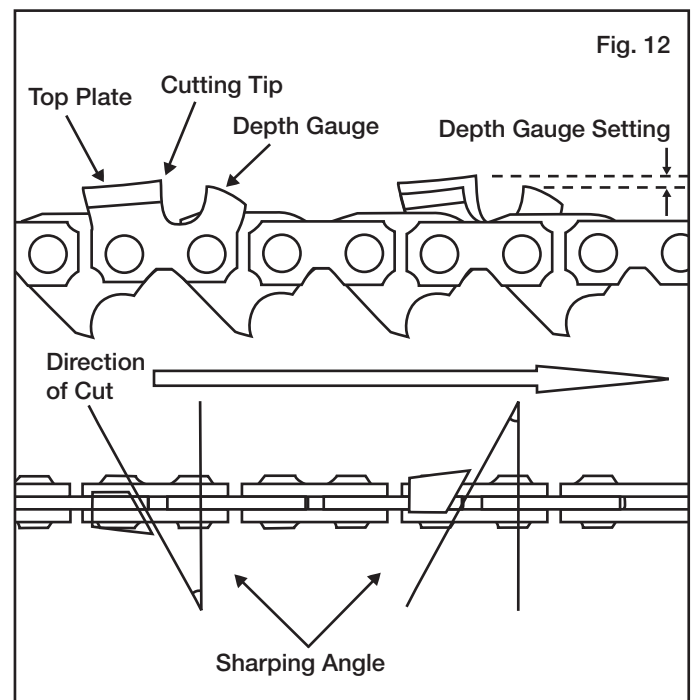
- Ensure that the electric power cord is not damaged.
- Ensure that the motor and cooling slots are unobstructed.
- If there is a reduction in motor power, the carbon brushes may need replacement.
- Check there is sufficient oil.
- Clean the chain brake and ensure that it works properly.
- Check the bar wears.
- Ensure that oil-ways are unobstructed.
- Clean the chain guide on the bar.
- Check the chain tension, sharpen the blades and check their condition.
- Check the guide bar sprocket.

- Ensure that the oil reservoir and the oil filter are clean. This chainsaw meets all legislation requirements; in order to avoid injuries all repairs are to be done by qualified staff in an authorized service centre.

## CHAIN SHARPENING

It is highly recommended that, once the chain loses its ability to cut cleanly and safely, it is replaced. It is possible, however, to sharpen the existing chain if done carefully. To sharpen the chain refer to Fig. 12 below and proceed as follows:

- Disconnect from the mains supply.
- Don protective gloves.
- Ensure the chain is correctly tensioned.
- Engage the chain brake to lock the chain on the bar.
- Use a round file whose diameter is 1.1 times the cutting tooth depth.
- File at an angle perpendicular to the bar, and  $38^\circ$  to the direction of travel.
- File each tooth from inside towards outside only.
- Sharpen each tooth equally by using the same number of strokes.
- Check the safety depth gauge height every 5-chain sharpening.
- If the depth gauges are also trimmed it is essential that the original profile be restored.
- Use a depth gauge-measuring instrument to check the height of the depth gauge. Depth gauge measuring jigs are available from most reputable tool merchants.









## A Two-Year Full Warranty for residential use in the United States and Canada



### General Conditions:

Snow Joe, LLC warrants this product to the original purchaser for two years against defects in material or workmanship when used for normal residential purposes. Snow Joe, LLC will repair any defect in material or workmanship, and repair or replace any defective part, subject to the conditions, limitations, and exclusions set forth herein. Such repair or parts replacement will be free from charge to the original purchaser except noted below.

The duration of the warranty applies only if the product is put to personal use around the household or residence. If the product is put to any business use, commercial or industrial, then the duration of this warranty is 90 days from the date of original purchase. If any product is rented or leased, the duration of the warranty is 90 days from the date of original purchase.

It is the owner's responsibility to perform correctly all maintenance, and minor adjustments explained in the owner's manual.

### Electric Products:

To obtain a replacement electric powered unit or repair the existing electric powered unit, you must return the complete unit and postage prepaid to: **Snow Joe Return Center, 86 Executive Avenue, Edison, NJ 08817.**

### Gasoline / Battery Products:

#### Limitations

- Batteries are warranted only for the period of 12 months after the date of purchase on a prorated basis. Rechargeable batteries will be replaced free from charge during the first 90 days. After the initial 90 days, batteries will be replaced at prorated cost to the customer
- Idlers, cables, and electrical components are warranted to the original purchaser for use at household or residence for a period of two years

#### Exclusions

- Snow Joe brand engines are covered under this warranty. All other engines and engine accessories are covered only by the engine manufacturer's warranty and are not covered by this warranty
- Parts used that are not genuine Snow Joe parts are not covered by this warranty
- Damages resulting from misuse, alteration, improper assembly, improper adjustment, neglect, or accident which requires repair is not covered under this warranty
- is not covered under this warranty
- Belts, augers, and tines are not covered under warranty – belts, augers, and tines wear out and can be purchased at [www.snowjoe.com](http://www.snowjoe.com) or by calling 1-866-766-9563

Snow Joe, LLC may from time to time change the design of its products. Nothing contained in this warranty shall be construed as obligating Snow Joe, LLC to incorporate such design changes into previously manufactured products, nor shall such changes be construed as an admission that previous designs were defective.

This warranty is intended to cover product defects only. Snow Joe, LLC is not liable for indirect, incidental, or consequential damages in connection with the use of the Snow Joe Products covered by this warranty. This warranty does not cover any cost or expense incurred by the purchaser in providing substitute equipment or service during reasonable periods of malfunction or non-use of this product, while waiting for completion of repairs under this warranty. Some states do not allow exclusions of incidental or consequential damages, so the above exclusions may not apply in all states. This warranty may give you specific legal rights in your state.

**If you wish to contact Snow Joe, please direct inquiries to the:**

**Customer Service Department  
Snow Joe Center  
86 Executive Avenue  
Edison, NJ 08817**

Customers who have purchased Snow Joe products exported from the United States and Canada should contact their Snow Joe Distributor (Dealer) to obtain information applicable for your country, province, or state. If for any reason, you are not satisfied with the distributor's service, or if you have difficulty obtaining warranty information, contact your Snow Joe seller. If in the event your efforts are unsatisfactory, please write to the Snow Joe Center at the above address.

If you have any questions about your product warranty, please call 1-866-SNOW-JOE or visit us online at [www.snowjoe.com](http://www.snowjoe.com).