

Safety precautions for electric chain saw users

Kickback safety precautions

 **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 can, in some cases, cause a lightning fast reverse REACTION, kicking the guide bar up and back towards the operator.
- Pinching the chain along the top of the guide bar may push the guide bar rapidly back towards the operator.
- Either of these reactions may cause the operator to lose control of the saw, resulting in serious personal injury.

Do not rely exclusively on the safety devices built into your saw. As a user of an electric chain saw, you should take a few steps to keep your cutting jobs free from accident or injury.

1. With a basic understanding of kickback, you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.
2. Keep a good firm grip on the saw with both hands, the right hand on the rear handle and the left hand on the front handle, as long as motor is running. Use a firm grip with thumbs and fingers encircling the handles of the electric chain saw. A firm grip will help you reduce kickback and maintain control of the saw. Don't let go of a running chain saw!
3. Ensure that the area in which you are cutting is free from obstacles. Do not let the tip of the guide bar come in contact with logs, branches, or any other objects while the chain is running.
4. Cut at high motor speed.
5. Do not overreach or cut above shoulder height.
6. Follow chain manufacturer's sharpening and maintenance instructions.
7. Use only replacement bars and chains specified by the manufacturer, or the equivalent.

Kickback safety features

1. Reduced-Kickback Guide Bar, designed with a small radius tip which reduces the size of the kickback zone.
A Reduced Kickback Guide Bar is a bar which has been demonstrated to significantly reduce the force and incidence of kickback when tested in accordance with UL 1662, Safety Standards for Electric Chain Saws.
2. Low-Kickback Chain designed with a contoured depth gauge and guard link which deflect the kickback force and allow wood to gradually ride into the cutter. Low-Kickback Saw Chain is chain which has met the kickback performance requirements of ANSI B 175.1.

3. Hand guard designed to reduce the chance of your left hand coming into contact with the chain if it slips off the front handle.
4. The relative position of front and rear handles is designed to provides better control, balance, and resistance to kickback
5. Chain brake designed to stop the chain if activated while chain is running.

 **WARNING!**

Do not mount any bow guide on the electric chain saw. Any electric chain saw equipped with a bow guide is potentially very dangerous. This electric chain saw is not designed for use with a bow guide. The use of a bow guide on an electric chain saw is more hazardous because of the potential for the bow guide to come into contact with the cable, causing loss of control and the likelihood of electric shock.

To contribute to safe operation, your electric chain saw is equipped with the following important safety devices:

- Chain brake
- Power trigger lockout
- Rear hand guard
- Chain catcher

Do not operate your chain saw unless all these safety devices are properly installed and functioning. Operating your saw without these safety features increases the risk of injury to yourself and to others.

Do not use any other combination of chain and guide bar which is not equivalent to the original equipment. Failure to follow these instructions may result in serious injury.

A worn or damaged chain og guide bar may break and cause serious injury or death. Replace entire chain if it is damaged or broken.

Sharpen and maintain chain according to manufacturer's instructions. An incorrectly sharpened chain increases the chain's tendency to kick back.

Safety Precautions

Other Safety Precautions

WARNING!

Do not operate an electric chain saw with one hand! Doing so may result in serious injury to the operator, helpers or onlookers. An electric chain saw is intended for two-handed operation.

1. 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 motor is running. Before starting the saw, ensure that the saw chain is not touching anything.
2. Dress properly. Do not wear loose clothing or jewelry. They can get caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wearprotective hair covering to contain long hair. Use safety goggles, safety footwear, snug-fitting clothing, protective gloves, hearing protection and head protection .
3. Do not allow other persons to be close to the chain saw when cutting or when chain is in motion. Keep bystanders, children and animals out of the work area. Do not let unauthorized persons handle chain saw or extension cord.
4. Do not start cutting until you have a clear work area, secure footing, and a planned retreat from the falling tree.
5. Avoid body contact with the chain any time the saw is plugged into a power source.
6. Before starting the motor, ensure that the chain is not in contact with anything.
7. Carry the chain saw with the motor stopped, the finger **OFF** the power trigger, and the guide bar to the rear and away from yourself.
8. Do not operate an electric chain saw that is damaged or not completely and securely assembled.
9. Release the power trigger and make sure the chain is stopped before setting the chain saw down.
10. Use extreme caution when cutting brush and saplings. Slender material may catch the chain and whip toward you or pull you off balance.
11. When cutting a limb under tension, be alert for a sudden springback when the branch parts.
12. Keep the handles dry, clean and free of oil.
13. Give some thought to the environment of the work area. Keep work area well lit. Do not expose your electric chain saw to rain. Do not use this or any other electric power tool in damp or wet locations. Don't use electric power tools in close proximity to flammable liquids or gases.
14. Do not operate chain saw in a tree unless you have received specialized training.
15. Do not operate chain saw above shoulder height.
16. When transporting your electric chain saw, use the appropriate guide bar scabbard.
17. Cut wood only. Do not cut metal, plastics, masonry, non-wood building materials, etc. Do not use your saw to pry or shove away limbs, roots, or other objects.
18. Do not force the saw through a cut. Exert light pressure only. Pressure on the saw at the end of a cut could cause loss of control when the cut is completed.
19. Unplug the power connection when the saw is not in use.
20. Do not make any adjustment to your electric chain saw without disconnecting the power supply. Also disconnect power cable when saw is being carried any distance or is not in use.
21. Connect electric chain saw to AC power supply of the correct voltage. Ensure that power supply rating conforms to the specifications on the nameplate of the tool.
22. Make sure your extension cord is in good condition. The cable should be of an approved outdoor type and should be heavy enough to carry the current your tool will draw. An undersized cable will cause voltage drop, power loss and overheating. The wire gauge should not be less than 14 AWG / 2 x 2.0 mm². A ground fault protector is recommended.
23. Keep the cable clear of the chain and operator at all times. **NEVER** carry the electric chain saw by its power cable.
24. **Defective power trigger and/or power trigger lockout. DO NOT** use the chain saw if these parts are defective and do not turn the chain saw **ON**. **Contact your Authorized Service Dealer.**
25. Unplug saw before servicing or changing accessories.
26. Your electric chain saw is double-insulated to help protect against electric shock.
27. Have all service on your electric chain saw (other than the operations described in the maintenance section of this manual) performed by an Authorized Service Dealer.
28. Ensure that all hand tools are removed from the saw before connecting the saw to the power supply.
29. Store the saw unplugged in a dry place out of reach of children and with the appropriate guide bar scabbard mounted.
30. When servicing, always use Husqvarna original spare parts.
31. Maintain chain saw with care. Keep tools sharp and clean for better and safer performance.

Safety Precautions

Safety Precautions for Electric Tools

Double insulation

1. Your electric chain saw is double-insulated for enhanced protection against electric shock. A double-insulated tool is designed with two separate «layers» of electrical insulation, or one double thickness of insulation between the operator and the tool's conducting parts. Tools that are double-insulated do not use a grounded (three-pronged) plug. You can plug your saw into any conventional 120 Volt electrical outlet. We recommend using a ground fault protector as an extra safety measure whenever you use your electric chain saw or any similar power tool.
3. Safety precautions must be observed when operating any electric tool. Double insulation provides added protection only against the result of an electrical insulation failure inside the saw.

Power supply and extension cable

1. Power supply.
Use only an AC voltage supply conforming to the specification on the name plate of the saw.



WARNING!

All electrical repairs to this saw, including housing, trigger, motor, etc., must be diagnosed and performed by an Authorized Service Dealer. Operations performed by untrained persons may lead to the failure of the double insulation and result in serious injury.

2. Extension cable.
The extension cable used to reach the power source must be :
Specifically marked as suitable for outdoor use.
The W-A marking must be visible on the cable.
Heavy enough (see table) to carry the current the full length of the cable.
If this conditions is not observed, loss of power and overheating may damage the cable and the saw.

Length of cable (ft.)	25	50
Wire gauge	14	14

Cable longer then 50 feet in length is not recommended.

In good condition. Cord insulation must be intact, with no cracks or deterioration. Plug connectors must be undamaged.

3. Important considerations.
 - a) **Secure the tool cable to the extension cord** by making a knot to prevent disconnection.
 - b) **Do not abuse cables.** Never carry the saw by the power cable or disconnect it by yanking on the cable. Keep tool cable and extension cord away from heat, oil, and sharp edges.
 - c) **Avoid entanglement.** Keep cables clear of operator, saw chain, and branches at all times.
 - d) **Inspect electric chain saw and extension cables before each use.** Do not use a unit with a damaged cable. Take the unit to your Authorized Service Dealer for repairs.
 - e) **Guard against electric shock.** Avoid body contact with any grounded conductor, such as metal pipes or wire fences.
 - f) **Examine the work area.** Keep work area well lit. Do not expose an electric chain saw to rain. Do not use this or any other electric power tool in damp or wet locations. Do not use electric power tools near flammable liquids or gasses.



CAUTION!

Vibrations from the prolonged use of hand tools may cause damage to blood vessel or nerves in the fingers, hands, and wrists of people prone to circulation disorders or abnormal swellings. Prolonged use in cold weather has been linked to blood vessel damage in otherwise healthy people. If symptoms occur such as numbness, pain, loss of strength, change in skin color or texture, or loss of feeling in the fingers, hands or wrists, discontinue the use of this tool and seek medical attention. Users who operate power tools on a continual and regular basis must keep a close eye on their physical condition and the condition of the tool.

If you experience any discomfort in your fingers, hands, wrists or arms, you should discontinue any work with ALL VIBRATING TOOLS and see your doctor for medical advice.



CAUTION!

To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit only one way in a polarized outlet. If the plug does not fit properly 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.

SAVE THESE INSTRUCTIONS

General Safety

General Safety Precautions

 **WARNING!**

An electric chain saw is designed to cut wood, and can be dangerous. Careless or improper use can cause serious or even fatal injury.

It is important that you fully understand the contents of this manual, and that you allow only competent adults who understand the instructions in this manual to operate your electric chain saw. It is your responsibility to make sure that any people who use your electric chain saw have read and understood this manual.



 **WARNING!**

Safety is your responsibility. Read and understand this manual before operating your electric chain saw. If you have any questions, see your dealer.

 **WARNING!**

Do not modify the equipment for any reason. Altering the electric chain saw can result in operator injury or equipment failure.

 **WARNING!**

Never use equipment that is not functioning properly. If your electric chain saw is not working properly, have the saw repaired by qualified service personnel.



 **WARNING!**

Wear safety equipment when working. Never wear loose clothing or jewelry that could get caught in moving parts.

 **CAUTION!**

Perform safety check before starting each day.

 **CAUTION!**

Know the requirements of each job and the terrain before using an electric chain saw.

 **WARNING!**

When using a chain saw, basic safety precaution should always be followed to reduce the risk of fire, electric shock and personal injury.

Electric Chain Saw Operator

This manual is primarily intended for the casual or occasional operator. These instructions are basic. It is not possible to cover every situation you may encounter while using your electric chain saw. Be careful at all times and avoid situations that may be too complicated for your experience. If you are unsure of a cutting situation, call a logging expert before continuing. We encourage you to seek instruction on the use of electric chain saw. Your dealer, forestry school or library can tell you what instructional material and training courses are available. The better prepared you are, the better and safer operation you will get from your electric chain saw.



Common Sense

Your electric chain saw can be a very dangerous tool if improperly or carelessly used or if improperly equipped or maintained. The following instructions are basic and cannot cover all situations you might encounter while using your electric chain saw. Use common sense and caution at all times. Avoid situations that may be too dangerous or complicated for you. If you still feel you do not understand the dangers of using an electric chain saw after having read this instructions, you should not use the saw. Seek personal instruction from people qualified to instruct you on the use of electric chain saws. Your dealer can tell about training provided by local forestry schools. Should you have more questions about the use of your saw, don't hesitate to contact your dealer or us. We will be more than happy to provide you with any advice that will help you to use your saw in a better and safer way. New designs and techniques are introduced continuously - designs that will increase your safety and productivity. Make a point of stopping by your service dealer to see how the latest designs can benefit you. It will be worth it. Safe cutting.



Introduction

Your electric chain saw comes with an Operator's Manual containing general information on how to safely operate your electric chain saw. It also provides specific information on your particular model.

Read the Operator's Manual very carefully before operating the electric chain saw.

We work continually to improve our products, and engineering changes and improvements are introduced from time to time. Written notices describing these changes are sent to our dealers. Make a point of asking your dealer to show you the latest design.

WARNING!

Under no conditions should the electric chain saw be modified from its original design without the approval of the manufacturer. Nonauthorized accessories should never be used. Nonauthorized modification and/or accessories can lead to serious injury or death to the operator or to others.

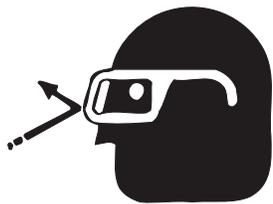


CAUTION!

The noise produced by a chain saw is loud enough to cause permanent hearing impairment after long or continuous periods of exposure. Always wear hearing protection when operating a chain saw.

Thrown Objects

When the motor is running at cutting speed, the saw chain runs at approximately 30 - 35 mph (14 m/s). It is capable of throwing objects such as chips and small pieces of wood with considerable force, and can cause injury, especially to the eyes.



CAUTION!

Always wear safety goggles or a face shield to minimize the risk of injury from thrown objects

Personal Equipment

Your condition

Never operate an electric chain saw when you are tired, angry, emotionally upset or under the influence of alcohol, drugs, medications or anything which could affect your vision, alertness, coordination or judgement. Cutting wood can be strenuous - check with your doctor before undertaking this kind of work.

Clothing



Proper clothing and equipment (as shown) protect you from potential hazards such as lacerations, thrown objects and hearing impairment.

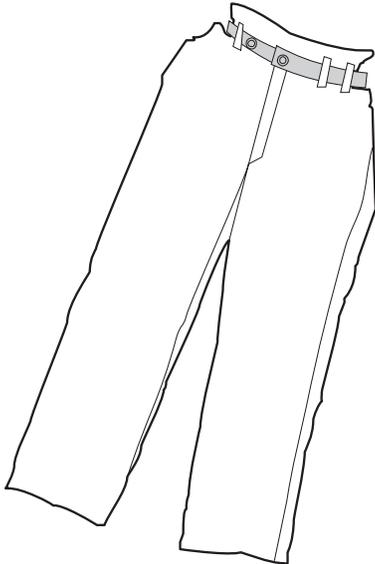
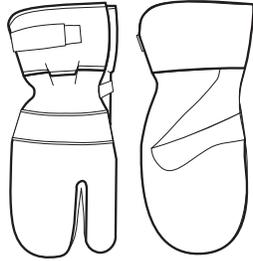
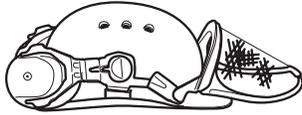
Always wear:

- hearing protection
- goggles or face shield
- non-slip gloves
- safety pants or chaps
- boots with steel toecaps and non-skid soles

IMPORTANT!

Personal safety equipment will not prevent all accidents, but it may minimize injury in the event of accident. For your own protection, ask your dealer to show you the latest safety equipment available, such as a hard-hat with face shield end ear protectors, and safety pants or chaps.

Never wear loose-fitting clothing, jewelry, etc., which could catch on the saw and cause serious injury. Wear protective hair covering to contain long hair.



IMPORTANT!

We strongly recommend the use of this safety equipment by all users at all times.

Because safety records demonstrate a clear decrease in the rate of injury when safety equipment is used, most professional logging operations now require their operators to wear these items. Take advantage of their experience. Your dealer will gladly assist in finding the right safety equipment for you.

Complete Protective Helmet

This consists of a lightweight hard-hat with ear-muffs and face shield attached. The main advantage is that everything you need is in one piece of equipment rather than three. Ear-muffs attached to the hard-hat also help keep it securely on your head.

The hard-hat is intended to reduce the risk of injuries from objects that may fall from a tree. Ear-muffs reduce the risk of hearing impairment from operating noisy equipment over a prolonged period of time. The face shield protects the face from small branches and the eyes from flying dust and chips.

Heavy Duty Gloves

Special gloves are available with the left glove reinforced to minimize injuries from accidental contact with a running chain saw.

Protective Pants or Chaps

The material used in modern protective pants consists of several layers of tough syntetic fabric which reduce the likelihood of injury in the event of contact with a running chain saw.

Boots

Special work boots with reinforced front and upper sides are available for loggers. Should you inadvertently hit the boot with the saw, these protective boots may protect you from injury.

First Aid Kit

A first aid kit approved by the Red Cross or similar organization should always be carried in case of injury in the field.

A kit should contain large dressings for lacerations, splints and slings for fractures, antiseptic and other optional items for your safety and convenience, such as insect repellent or a snake bite kit.