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## Stihl chainsaw ms290 manual

Our editors research, test and recommend the best products independently; you can learn more about our review process here. We may receive commissions purchases made from our chosen links. If you are in the market for a chainsaw, you will probably be choosing from three main categories: gas, electric cable or wireless. The gas models are softer and more powerful, and there is no cord to worry about. But they are also noisy, require more maintenance and even start the engine can be a pain. Wired electrics are cheaper, lighter and less maintained, but you'll have less power – and you're stuck with a cable. Wireless models have a rechargeable battery that allows you to go anywhere, but are usually reserved for light service, and the battery may not last long enough for longer jobs. Whatever you choose, security should be your number 1 priority. Most chainsaws are designed to limit dangerous kickbacks and have other safety features such as chain brakes, blade boxes and anti-vibration technology. Proper maintenance can help prevent accidents, as well as common sense tips, such as not wearing loose fitting clothing or sawing with the blade end. To help you find the best chainsaw for your needs, here are the best options on the market. This wired electric chainsaw inspires unparalleled devotion among its owners, who say it is surprisingly powerful for a model that doesn't have a gas engine. It features a 16-inch bar that users say is robust enough to cut large trunks and limbs with ease. The current speed is 2,900 feet per minute. This Makita is packed with features including an ergonomic, rubberized handle, a soft start trigger switch, a built-in current limiter that helps protect against engine burnout, an automatic oily current and an electric current brake. Adjusting or replacing the blade and chain is as easy as rotating a lever – no tools required. Owners appreciate this ease of use and especially love not dealing with a high-maintenance gas engine, but they say the chainsaw also doesn't save energy. It weighs just over 15.5 kilos, and most users find it light enough to maneuver with ease; however, it is still heavier than comparable models and will require an externally rated extension cable. It is backed by a one-year warranty and a 30-day satisfaction guarantee. If you're looking for a powerful chainsaw that can handle a lot of use and abuse, the Husqvarna 455 Rancher is a tried and true option that owners love for its broad power and reliability. Experts praise this saw too, giving it top marks to slow down and very good facilitate use. It has a large 20-inch bar and an impressive two-stroke, 55.5 cc engine that can go up to 9,000 RPM. This Husqvarna is a low vibration model with a low-fuel, low-emission X-torq engine. It has a centrifugal air cleaning system that can help air filters last longer, a laterally mounted chain tensioner, an inertia-activated chain brake, an ergonomic handle and a Smart Start system that means means time spent trying to get the engine running. In general, owners say that all these features make a chainsaw exceptionally easy to use, especially compared to other gas models. More importantly, they say it is powerful enough to easily cut large trunks and limbs. There are some complaints of oil leaks, though. The saw weighs about 16 kilos with cutting equipment, so it is on the heavier side. It is backed by a two-year warranty. If a good amount of power is what you're after, the owners say you'll love the Echo CS-400-18, a gas chainsaw with an 18-inch bar and a two-stroke, 40.2 cc engine. Experts delight about their ability to cut towering pieces of wood quickly and confidently, and also give you high notes for ease of use and easy handling. This professional-level chainsaw features an automatic oily, heavy air filter, reduced effort start-up system with digital ignition, a side-access chain tensioner and an air pre-cleaner. While gas-powered chainsaws can be difficult to get started, buyers report that it is easy to light and stay balanced during use. They also say it's relatively light at just over 10 pounds without fuel, but still packs enough energy for even heavy home projects. The fuel tank is only 14 ounces old, and is covered by an impressive five-year warranty for non-commercial use. As long as you're willing to put up with a power cord, it's hard to beat the WORX WG303.1, especially for its economical price. This electric chainsaw has a 16.5-inch bar and a 14.5-inch motor. Experts give top marks in all important categories, including cutting speed, ease of use and handling. Although it is inexpensive, this WORX still has important features including chain brake, ergonomic handle, automatic oily current and automatic chain tensioner. Testers say it's faster and more balanced than a similar saw with a larger bar, and owners are impressed by its ability to easily handle light service around the yard. They also love how light it is at just 11 pounds. You can experience some tremors with this model – experts say it lacks vibration insulation – and some owners say the chain jumps from the bar very easily. Some others warn of oil leaks. It's a workhorse for weekend lumberjacks. Reliable and sturdy, the Rebel Remington has a heavy motor and blade that easily handles most DIY jobs around the yard. It turns to life with an attraction and the reviewers were impressed with the well-made body and quality parts. The blade provides a lot of with an 18-inch bar and chain with a paddle tip. Automatic oily keeps the bar and chain in good working condition after work. The 42cc engine, with two gas-powered cycles, is designed for smooth traction starters with its Quicksart technology. Reviewers confirm this, saying that the cordless saw is easy to get started and handle. The Remington packs a powerful punch and is one of the heaviest saws with 22 pounds, but the five-point anti-vibration and cushioned wrap handle cut into the kickback. Versatile and easy to handle, the Remington is ideal for cutting and pruning large trees that get too close to the side of a house or other tight space projects. The heavy transport box keeps the saw and all its parts clean between stations and jobs. Maybe you just need a smaller chainsaw for very occasional use of light service, and you don't want to worry about staying within range of the nearest outlet. Buyers say you'll be pleased with greenworks 20362, which has a convenient 24-volt lithium-ion rechargeable battery and a 10-inch lithium-ion bar. This Greenworks chainsaw includes toolless voltage adjustment, an automatic chain oiler and an ergonomic handle that is easy to grip. The battery can make up to 35 cuts of relatively thick branches or plates before needing a charge, which takes about 45 minutes; owners say the battery usually lasts longer than enough to handle small jobs. Although this is not the best choice for working on large logs or any other heavy tasks, several users say it is surprisingly effective for light service. They also say it weighs almost nothing at less than 8 pounds, making it easier to control for people who may have more strength or limited dexterity. It is backed by a generous four-year warranty, too. While most battery-powered tools are best suited for fast, lightweight jobs, the EGO Power+ CS1401 is ready and willing to do more. Its 6,300 RPM engine is powered by a 56-volt lithium-ion battery, and has a 14-inch bar. Experts give top marks for ease of use and very good for handling and cutting speed. The CS1401 features a low-kickback design with current brake, voltage adjustment and high-efficiency brushless motor. The battery can handle about 100 cuts on a single charge, and some users report that it goes more than an hour off before needing to turn it back on, which they say is a relatively fast process. They also report using it to cut limbs up to a foot thick – not too poor for a battery model. At 14 kilos, it's a little heavier than some lighter models, but most owners don't complain. It is supported by a five-year warranty; the battery is guaranteed for three years. A cable can get tangled and tiring when working a big job with a roaring chainsaw. The Greenworks wireless chainsaw provides a lot of bite for your dollar and a long service life between battery charges. It cuts through thick stumps with a brushless motor that has significant torque and power. Once the electric start brings you to life, the saw provides 30% more torque than other cordless saws of your caliber. With less twist and turning and power the saw gets less worn and will last longer seasons. An automatic oily also extends the life of the chain and blade. Greenworks has a longer operating time than other wireless saws on the market so you don't have to stop just like you're finishing. The rattle on this large portable saw is smaller than its counterparts with up to 70-70 less vibration. Users have found that this is one of the notable features of greenworks 40V wireless—less fatigue while working does a quick job of thorough projects. However, note that the battery and charger are sold separately, a small disadvantage for a well-respected machine. Final Verdict For a powerful chainsaw that is full of features, we love the Makita UC4051A Chainsaw (overlooking Amazon). It features a 16-inch bar that users say is robust enough to cut large trunks and limbs. However, if you're able to spend a little more, the 2-Stroke Chainsaw (overlooking Amazon) has a 20-inch bar and an impressive cutting speed. By Erica Puisis Do a quick job of tree-cutting, shrub modeling and other work activities in the backyard with a chainsaw. This familiar but formidable power tool has helped homeowners do difficult tasks in no time, thanks to a fast moving chain specially designed to cut even dense materials. Each chainsaw has at least three main components—a body that houses the power source, a bar (sometimes also referred to as a nose or blade), and a chain. The power source (whether a gas engine, electric motor, or a battery) generates power for the current, which moves rapidly around the chainsaw bar. Small, sharp teeth in the chain dig on the cutting surface to quickly make precise cuts. Chainsaws come in various configurations to meet the needs of an average or professional tree cutting owner. There are gas and electric chainsaws, along with saws of poles and electric loppers. The most basic chainsaws start at about \$75, but these models will be limited in power and capabilities. High-end chainsaws can cost \$1,000 or more, but if you're not a lumberjack or an arborist, you're not likely to need such a robust model. Most people think a chainsaw priced between \$200 and \$500 meets their needs for a reliable, powerful, and easy-to-use model. Engine: How much power you need in a chainsaw engine depends on the type of tasks you have in mind. Chainsaws can be powered by electric or gasoline motors. The capacity and weight of the chainsaw will increase as engine power increases. Electric motors are classified into amplifiers. Light electric chainsaws start at about 8 amperes, but more robust models fall between 12 and 15 amperes. Unless you have the most basic cutting tasks to complete, you'll probably want to consider an electric chainsaw with amplifiers at the top end of this range. Gasoline engines are most commonly categorized in terms of cc's, but you sometimes see them sorted by You'll find chainsaws with anywhere from 25cc to 80cc or more on professional models. Power varies, but a mid-range chainsaw can have about 4 horsepower with heavy models packing even more power. Battery-operated models completely skip the engine. Instead, the power of these chainsaws is measured in volts. Many models are available with 18-18 40 volts, but some stretch the power up to 80 volts or more. Current brake: A critical part of the safety of the chainsaw is the chain brake. Most chain brakes involve a spring loaded lever that uses a brake band to stop the current in its tracks when activated. Some newer chain saws have an inertia current break that will automatically stop the chain if sufficient recoil is indicated, regardless of whether the lever has been manually released by the operator. This type of chain break provides an additional level of security as it eliminates the potential for any user delay and immediately stops the chain. Automatic lubrication: For maximum performance and maximum safety, a chainsaw must always be well lubricated. Due to the friction placed on the chain and nose of the machine, this can be a frequent task. If you can't keep the chain well lubricated, it can get dull faster, but the frictional heat can also cause the saw nose to deform. Many chainsaws today are equipped with an automatic oily that will save the operator time, ensuring that the saw remains in optimal working condition. Automatic oily stems are available with fixed flow or adjustable flow. A fixed-flow oil will distribute a consistent and constant flow of oil into the chain. An adjustable flow oil system means that the operator can adjust the oily configuration to release more or less oil. This may be necessary when placing a higher tension in the saw, such as when cutting harder woods. Any type of automatic oily you choose, familiarize yourself with the size of the oil reservoir and pay close attention to ensure you don't run out of oil. Many models of chainsaws have a small window next to it that allows you to easily keep an eye on your oil supply. Bar Length: The chainsaw bar is also sometimes referred to as the blade and serves as a guide to the chain. The lengths of the bars vary greatly between different models of chainsaws and range from 8 inches to more than 20 inches. The shorter the length of the bar, the easier the chainsaw is to handle – but it will also reduce the cutting capabilities of the saw, since the bar should be 1 to 2 inches longer than the wood you are cutting to avoid recoil (which is when the saw nose makes contact with the cutting surface and is strongly forced upwards). Longer bar lengths allow you to make considerably larger cuts of wood in a single pass. However, a longer bar length is often paired with a more powerful engine and a heavier machine, so greater caution is needed when using these heavy chainsaws. When purchasing a chainsaw for average owner use, a bar length of 14 inches or less should be if you have more than average patio tasks to tackle, then you may need to look for a more capable model with a bar length of 14 to 18 inches. Heavy chainsaws will have a bar length of 18 to 20 inches, and professional chainsaws will stretch the length of the bar up to about 24 inches. Tool-free chain adjustment: It is important to make sure that the chain always tight enough around the bar of your chainsaw. With use, vibration and friction can cause the guide bar to change position and the current may become loose—which poses the risk of the current flying from the guidebar and potentially injuring the operator. A very tight chain can cause damage to the bar or break, which is also a potential danger to the operator. To adjust the voltage of a current, you will need to adjust the position of the guide bar. The typical method is to remove the wheel cover from the machine using a wrench and then adjust the tension of the screws holding the guide bar in place using a screwdriver. Typically, the manufacturer will include a special tool that can perform both tasks. But to save time and make the task easier, many chainsaws on the market feature tool-free chain adjustment. A chainsaw with this feature allows you to make much faster and simpler adjustments to the length of the bar to keep the chain tight. Instead of requiring the use of a screwdriver and screwdriver to manually adjust the screws, a tool-free chain adjustment system typically uses some combination of a special button or thumb wheel to adjust the length of the bar. Handle: Most chainsaws on the market have a rear handle. This is typically the handle that will feel safer for the average owner. There are also complete wrap and 3/4 wrap handle configurations, but these are found mainly in professional-level chainsaws. Top-handle chainsaws are designed to be used only for above-ground cutting and are also reserved for professional chainsaw models commonly used by arborists. Gas: Most chainsaws in the market are gas powered. This type of chainsaw offers a lot of energy and a wide range of options to meet the needs of any user. Since the power offered by a gas chainsaw is often more significant than electric models, you will find that this type of chainsaw is paired with longer bar lengths for a more robust cutting action. Typically, gas-powered chainsaws start at about 8 inches and range up to more than 20 inches. While the capabilities of a gas-powered chainsaw are difficult to match with other types of chainsaws, the noise factor and smoke are significant disadvantages. Many people cringe at the idea of using these noisy machines, and the leakage of a chainsaw can be offensive at best and harmful at worst—so make sure you use only a gas-powered chainsaw in a well-ventilated area. You will also need to be careful to use the right mixture of gasoline and oil if your chainsaw asks for premixed fuel. Pull-start start ignition is standard in many but some manufacturers have easy-to-start mechanisms integrated to make it simpler and faster to make the machine work. Thanks to fuel, however, these chainsaws are supreme in terms of power and cutting speeds. This is the reason why you will see professional chainsaws with gasoline engines. Whether you need so much power and ability depends on the size of a job you have to do, do, if you are willing to put up with noise and exhaust annoyances to make it faster. You can expect to spend about \$200 for a gas chainsaw for home use, but there are more basic models available for \$100. Of course, you can also increase the power—and the price—with a higher end model that costs \$300 to \$500. Professional-grade gas chainsaws typically cost \$800 to \$1,000 or more, but this is an investment the average owner typically won't need to make. Wired Electric: This type of chainsaw offers unlimited run time—as long as you stay near an outlet or have an extension cord long enough to do the job. Electric chainsaws come with relatively short power cords that you can plug directly into an outlet or an approved extension cord if you need more space to move. People who prefer corded chainsaws appreciate the fact that there is no need to stop or recharge a dead battery. However, you'll need to tie for the power cord while moving around your yard or shopping to handle your projects. This can be a nuisance and a security risk—since you don't want to trip over the cable or accidentally cut it. However, the advantages for electric chainsaws keep them as a top option for owners. Without a gas engine and fuel tank, these chainsaws are light and more maneuverable. They are also significantly quieter than gas-powered models and will gain more friends in the neighborhood if you do go backyard work in the morning. Most wired chainsaws are between \$50 and \$100—making them an economical choice for a light-service chainsaw. Wireless Electric: This type of electric chainsaw depends on the power of a rechargeable battery. Cordless chainsaws can be surprisingly powerful and allow you to 'cut' the cable for freedom of operation whenever and wherever a chainsaw is needed. But the capabilities of the chainsaw are limited in power and hampered by battery life. Wireless chainsaws come in a variety of bar lengths; it is common to see models with 10 inches to an astounding 20 inches. This type of chainsaw will probably cut more slowly than many gas models, but many people prefer to spend extra time on a cut rather than deal with the smoke and fuel of a gas chainsaw. Like electric chainsaws, wireless models are lighter in weight than gas-powered models and are typically cheaper. Advances in battery life capacity have made wireless chainsaws increasingly popular with owners who need an occasional, lightweight chainsaw. This type of chainsaw can be purchased for \$200 to \$300, with some models available for more depending on resources and resources. Pole Saw: If your cutting tasks are reaching great heights, a regular chainsaw at ground level won't do you much good. You should never use a chainsaw above shoulder level or while on a ladder, so the interest of safety, you will need another option to reach higher limbs when trimming trees. A pole saw is a compact chainsaw attached to an extension handle that allows you to trim limbs at higher heights. Pole saws can be gas-powered, wireless or wired electric models—but electric versions seem to dominate the market. They typically have bar lengths of 8 or 10 inches, but some professional-level models stretch it up to 12 inches. One of the most important factors to consider is the length of the handle—as this will determine the range of the pole saw. Choose a pole saw that is long enough to face the tasks you have in mind, but not long where it will become complicated or clumsy for you to handle. Maximum handle lengths are usually between 8 and 12 feet. If you're buying a pole saw, the price can range from \$75 for a lightweight electric model to \$500 or more for a professional-level gas model; many mid-range options are available for \$100 to \$200. Loppers: A lightweight, safety option for cutting small branches and shrubs is an electric lopper. Although the specific design varies by manufacturer, this type of chainsaw has metal jaws on both sides of the bar that reduce some of the risks associated with the operation of a chainsaw. Electric loppers can have a scissor-like configuration, where opening and closing the handle allows you to tighten the material to be cut before entering the action of the chainsaw. The jaws of an electric lopper also make it safer and easier to store without worrying about leaving the current exposed. These machines will not replace a chainsaw for many medium service tasks and beyond, but can be a good addition to your tool stock if you need a lightweight and safe tool to handle quick jobs around the yard. An electric lopper is a small investment, with many options available for about \$75 or less. Husqvarna: With well-made products and a variety of innovations and features, Husqvarna is a major player in power tools, including chainsaws. Most Stihl chainsaws are manufactured in the United States and the company's product line includes cordless chainsaws and gasoline with products that cover many different uses and budgets. However, you will only find Stihl chainsaws through its dealer network. The guarantees of the chainsaw vary widely according to the manufacturer and even by the model. Electric chainsaws generally have a longer warranty period than their gasoline equivalents. Chainsaws used exclusively for residential use will also have a longer-lasting warranty coverage than chainsaws used for commercial purposes. A typical warranty period for a chainsaw from a leading manufacturer is usually between three and five years. However, some manufacturers will extend the warranty period by one or two years if you buy a specified amount of fuel or premixed oil from the manufacturer when you buy a chainsaw. This is something to consider if an extended warranty period is important to you, but note that all items should appear on the receipt and the specific purchase requirements vary by manufacturer. Echo offers one of the best warranty periods in the industry—five years of chainsaws used for residential purposes. Stihl, on the other hand, has one of the most limited warranty periods in just one year for electric and gasoline-powered chainsaws. However, you can double this warranty period with the purchase of Stihl premixed fuel or oil as mentioned above. The most important thing you can do to extend the life of a chainsaw is to follow the manufacturer's instructions for use and maintenance. However, it offers extra peace of mind to know the warranty terms of your chainsaw. Guarantee.