

## Dr Chipper 18 Hp Manual



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# Dr Chipper 18 Hp Manual

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When I pushed the start button 5 seconds later it roared to life. Runs great. I will not ship. Call me at 3606296894 for inspection and pickup arrangements Stanwood, WA. Asis, whereis, noreturn, cashonly. Pictures and Details. Your job wouldn't be complete without a wood chipper or a wood chipper and shredder. The DR Power Equipment family of garden tools is one that you can count on for high quality, durability, and reliance. Whether you're looking for a manual feed chipper that can demolish debris, chop up branches, and create a fine mulch for your garden, or you need something more powerful, you can likely find it through DR Power. So, how do you know which one is right for you. Keep reading for more information on chippers, shredders, the difference, and why DR Power is a brand you should consider for your wood chipping needs. Especially if you're a fan of gardening and you do it on a big scale. So, chances are likely that you own a tractor and maybe a rototiller. The TroyBilt brand was trademarked by Watco Machine Products, which changed its name to Garden Way Manufacturing in 1976. Some of the people who worked alongside the man who helped build the TroyBilt name and reputation Lyman P. Wood. Those people shared the love Wood had of rural living, and the desire to make tools to help those who also love country living to be able to do so in a selfsufficient manner. And that's how DR Power was born. So, if you notice any defects in parts or workmanship, you can return your chipper to DR Power for repair, a replacement, or for a full refund, at the manufacturer's discretion. These are pricey machines. There's a good reason for that. DR Power wood chippers and shredders are beasts. They don't just manage twigs and leaves by the

handful. They can chop and shred 3, 4, and 5 inch thick

branches. <http://www.meress.sk/userfiles/computer-networking-kurose-and-ross-solutions-manual.xml>

That means you can do some limb cleanup of the trees on your property and then turn those thick, y-shaped branches into nutrient-rich mulch for your garden or flower bed with one of these chippers. While those machines are easier to use, cost far less on the front end, and they require little to no maintenance, they're not likely going to handle what you need to throw at them. Save those little machines for those living in the city or suburbs who only need to shred a few piles of leaves and a few twigs. If you've been living the quiet rural life for a while now, then you already know what to expect. Gas-powered machines require fuel, engine oil, and they're heavy. You can't just pick one of these chippers up and move it to wherever you want it. Most of these chippers are meant to be towed to the spot you need it. So, you'll need to drain it of fuel when it's sitting dormant in your shed, barn, or garage. And you may need to change air filters. Some of these machines offer electric starts, but most of them are manual. These are typically a bit larger than their electric counterparts, and they're a bit heavier, but they can still be wheeled out to your yard where you need to do the dirty work. One, they are all backed by that same limited warranty, regardless of whether you choose a less expensive, less powerful model. Two, they all undergo rigorous testing processes to determine that they are durable and reliable. Finally, three, all the wood chippers have glowing reviews from consumers who love their yard debris-eating machines. Read the DR Power wood chipper reviews below to see which one makes the most sense for your yard, the work you have to do, and your pocketbook. This branching beast can handle sticks up to 3.5 inches in diameter, so you should be able to break down most of the limbs piling up in your yard. It can also shred leaves, clippings, and more to create a finely chopped mulch to add to your flower beds or gardens.

You could also use that mulch as a soil conditioner. And starting this machine is easy enough. Surprisingly, the blades stay sharp, even after hours of chipping away at the wood. There are 24 hammers included for the shredding part of this chipper and shredder combo, so it's sure to pulverize anything you throw at it. The hopper mouth is a bit small, so you'll have to throw smaller handfuls of leaves in at a time. And debris could blow back into the engine because of the position of the shredder chute. When all you need is a wood chipper to handily deal with the limbs and saplings you need to get rid of, the DR Power 11.5 Wood Chipper could be a solution for you. It offers plenty of power with its gas-powered motor, and it includes a larger hopper than you may expect for a machine of this size. The flywheel with a steel blade is heavy and thick, and it rotates at a speed of 101 mph. That speed translates to about 40 chops per second, so your chore is going to go quickly with the help of this chipper. That means you have to pick up by the easy-grip handle and maneuver it to where you need it. Easy enough, considering it's lighter weight compared to some other machines. However, the handlebar is a bit short, so you may find your heels knocking against the machine as you pull it. There is an optional tow kit you can purchase, at least. The other issue is that parts, such as bolts, are often missing, which are easily replaced, but a bit of an inconvenience when you're assembling your new chipper. The chipper side of things can handle up to 5-inch thick branches, so there's no excuse for not cleaning up your acreage. The shredder can take all the sticks, twigs, and leaves you want to throw at it, as long as it's 1.5 inches or smaller in diameter. The result: finely ground mulch that you'll be able to spread in your garden. The biggest issues with this wood chipper and shredder are its price and its maintenance.

<https://www.interactivelearnings.com/forum/selenium-using-c/topic/19283/distagon-50mm-manual>

It's one of the most powerful machines you can buy, so it's going to be an expensive purchase. All gas-powered machines are going to need maintaining, but this one goes through fuel at about a gallon per hour. So, be prepared with enough gas to keep it going. All that said, this machine has its quirks. Plus, the wood chipper can often bog down and get clogged, in spite of the extended chute.

Additionally, this chipper doesn't seem to do that well with curved branches. Some of these issues could be defects, and so it's important to contact customer support if you notice similar issues. That little bit of extra power allows you to chip larger diameter sticks, and shred bigger twigs and handfuls of leaves. The manufacturer of this machine claims this chipper and shredder combo can take on up to 4inch branches, and nearly 1inch thick yard debris, but customers mostly disagree. Perhaps it has more to do with the type of wood, but most experienced that this chipper had issues with branches any larger than 3 inches. However, others said they were able to push this wood chipper to take 4.5inch branches. The shredder tends to clog often, and you'll find that the mulch created piles up too quickly. You'll have to clear under the discharge with a shovel often to keep the path clear for more mulch. The machine munches on almost any thick stick you throw at it, but technically it's meant to handle up to 5.75inch diameter branches. Most of those who've bought and used this chipper say it's best for branches up to 4 inches thick. Any thicker than that and the motor slows down quite a bit. And you get a yardtow hitch that's standard with this machine. For towing between properties, though, you'll have to purchase a roadtow kit separately. Oddly, the extended chute is also an optional, separate purchase. At the price point, this machine sits at, it's surprising that the chute isn't just included.

The good news is that the discharge on this unit is situated high, so it should be easy to point and shoot the wood chips where you want them to go the ground, the bed of a truck, wherever. Softwood, hardwood, and yard debris are all no match for this hungry chipper and shredder combo. Of course, this isn't the most powerful machine on the market, and it isn't something you can tow behind your tractor or truck. This is an entrylevel tool that's going to help make yard duty easier on you, but you're going to have to move it around manually. It can handle up to 3inch sticks, but it has a little trouble with dried wood. Greenwood is what it's hungry for. The shredder, however, gets lessthangelowing reviews. It can chew up the thinner sticks and twigs but leaves bog it down a bit. And then there's the maintenance of this chipper and shredder. All gaspowered units need maintenance, but the placement of the oil and the dipstick is awkward, at best, making it difficult to add, change, and check the oil. Some of the units are better suited for large properties, while others are best for those who have landscaped yards in need of some cleanup. Overall, though, if you're looking for the absolute best chipper money can buy, then set your sight on the DR Wood Chipper Shredder CSR21AE. It has a powerful engine that is easy to get going thanks to an electric start. Plus, it comes with a roadtow kit that's standard, which makes it easy to haul from property to property. Branches as thick as 5 inches are no match for this machine, and anything bigger should probably just be used as firewood. If you want the best DR Power wood chipper, then consider this gaspowered mechanical beaver. Read more here. Please let us know of any questions you may have. We want to answer or correct them as quickly as possible. For technical assistance, please call TollFree 1800DROWNER 3769637 and one of our Technical Support Representatives will be happy to help you.

We also hope to hear from you on how much you like your new helper. In addition, please tell your friends about your new DR ROADTOWABLE CHIPPER. Having owners spread the word about our products and our way of doing business is the best advertising we can have, and the best way to help us provide even better service in the years to come. All rights reserved. Careful adherence to the safety and operating instructions in this manual will ensure many years of productive use. Please let us know of any questions you may have. We want to answer them as quickly as possible. For technical assistance, please call TollFree 1800DROWNER 376 9637 and one of our Technical Support Representatives will be happy to help you. Conventions used in this manual Tip This is a helpful hint to guide you in getting the most out of your DR ROADTOWABLE CHIPPER. Tools Needed This indicates you will need a special tool to perform a maintenance function on your Chipper. NOTE This information may be helpful to you. If you are ever unsure about an action you

are about to take, don't do it, contact Country Home Products' tollfree support at 1800DROWNER 376 9637 for help or information. Shown below are copies of all the labels that appear on the equipment. Take a moment to study them and make a note of their location on your machine as you assemble and before you operate the unit. Replace damaged or missing safety and information labels immediately. This also applies to operation on US Forest Lands. All DR ROADTOWABLE CHIPPERs shipped to California and Washington State are provided with spark arresters. Contact your local fire marshal or forest service for specific information in your area. Additional Information and Potential Changes Country Home Products, Inc. reserves the right to discontinue, change, and improve its products at any time without notice or obligation to the purchaser.

The descriptions and specifications contained in this manual were in effect at printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your machine. If you have any questions at all, please feel free to contact our Customer Service Representatives at our toll free number 1800DROWNER 3769637. If any of the parts are missing, contact 1 800DROWNER 376 9637. Do not discard the pallet until you are fully satisfied with your new DR ROADTOWABLE CHIPPER. NOTE Be sure to insert the bolts from the inside of the Chipper Hopper so that the threads are sticking out Figure 1 . 2. Install a Flat Washer, then a Lock Nut on each bolt. Check to see that the Hopper is centered on the Inlet Chute and then tighten the Nuts securely. 3. If you used a towel or rag in the Chipper opening, remove it now. Figure 1 Chipper Hopper Bolt 4 Nut 4 Washer 4 Chipper Left Side Panel Access Cover Inlet Chute NOTE Check that the Safety Interlock Switch button is depressed by the Mounting Bracket on the Discharge Chute. If the button is not properly depressed, the engine will not start. Mounting Bracket Safety Interlock Switch NEVER perform this adjustment with the engine running or the flywheel turning. Identify the "Road Side" and "Curb Side of the trailer from Figure 5 below. NOTE There is an Access Hole in each Tail Light Mounting Bracket so the Wire Harness can be attached to each light. The White wire is for the Ground. NOTE We recommend that you wrap the Harness wires together with electrical tape about every twelve 12 inches starting at tie point 5 Figure 5 and going toward the hitch. Figure 5 Road Side Curb Side Tail Light Mounting Bracket Before using your DR ROADTOWABLE CHIPPER, you must connect the battery cable. Do not use special additives. Other types of oil could cause problems operating your machine. Be careful not to overfill and reinstall the cap before starting the engine.

See your Engine Owner's Manual for more information. NOTE To refill the gas tank, turn the engine OFF and let the engine cool at least two 2 minutes before removing the gas fill cap. Before Starting the Engine 1. Check the oil level every time you use the DR ROADTOWABLE CHIPPER. 2. Check the gas level. 3. Turn the Gas ShutOff valve to the OPEN position Figure 8 . 4. Remove any debris buildup from the machine. Figure 8 Choke Gas Shut Off Throttle Throttle Pull to Choke Key Switch Run Key Switch Gas Tank Off On 18HP 19HP Operator Zone Operator Zone Top View Wait until the engine runs smoothly before each Choke adjustment. For maximum performance, operate the engine with the Throttle in the FAST or RUN position with the CH OKE pushed in to the RUN position. Stopping the Engine 1. Move the Throttle control lever all the way to the SLOW or IDLE position and turn the Key to OFF. 2. Remove the Key for safety. The Key has a pressure lock that prevents it from vibrating loose during operation. To remove the Key, push it in and then quickly and firmly pull it out. NOTE Close the fuel Shut Off Valve when transporting or storing the DR ROADTOWABLE CHIPPER. The revolving Chipper Knife mounted on a flywheel turns branches fed into the hopper into "chips". If the machine does not chip well, the Chipper Knife may need to be sharpened or replaced, or the gap between the Knife and the Wear Plate needs adjusting. NEVER use your hands or feet. If it is, clear it with a branch. 4. With a wooden stick, loosen and remove any material left in the Chipping Chamber. Top Discharge model 1. Follow the installation instructions on page 17. 2. Reconnect the battery negative terminal cable, the spark plug wires and start the Chipper engine; allowing the material in the Chipping Chamber to discharge. 3.

If the Chipping Chamber doesn't clear and the flywheel is still jammed, repeat above process. 4.

Be certain the Chipping Chamber is clear before trying to process more material into the Chipper Hopper. For engine maintenance, please refer to the Engine Owner's Manual that came with your machine. Service intervals listed in the checklist below supersede those listed in the Engine Owner's Manual. Increase frequencies under extremely dirty or dusty conditions. NOTE 2 Drain the oil when the engine is warm. Allow the used oil to drain completely, and then close the Drain Valve. 4. Using an Oil Filter Wrench, or grasping the oil filter firmly with your hand, unscrew the oil filter counterclockwise from the engine Figure 12 on page 34. BE SURE THAT THE OLD FILTER GASKET COMES OFF WITH THE FILTER. 5. Wipe the mounting base for the oil filter with a clean cloth. 6. Apply a thin coat of clean motor oil to the new oil filter gasket. DO NOT OVER TIGHTEN. 8. Replace the engine oil using SAE 30 HD oil. See page 21. 9. Reattach the spark plug wires and the negative battery terminal cable. 10. Start the engine and check for oil leaks around the filter base. NOTE If you are not reusing the oil, be sure to use environmentally safe disposal procedures in the disposing of the used oil. NOTE Check and retighten the Drive Belts, if necessary, after an initial break-in period of one hour. Figure 14 Engine Bolts, Front Belt Tensioner Figure 15 Straight Edge Belts Clutch Rotor Pulley If the gap between the Wear Plate and the Knife is not set correctly, you will have excessive vibration when chipping and the Knife will seem to be dull. The Wear Plate should have a square edge and be free of dents or gouges. The Wear Plate can be hand sharpened. Be careful not to overheat it during the sharpening process. This will change the characteristics of the steel and you will then have to replace the Wear Plate. If the gap is set correctly, the Gap Gauge will lightly touch both the Knife and Wear Plate.

If the gap is too small, you will not be able to get the Gauge between the Knife and Wear Plate. If the gap is too large, there will be excess room between Gap Gauge, Knife, and Wear Plate. 4. Tighten the Nuts and Bolts when the Wear Plate is in the correct position Figure 19 . 5. Reconnect the negative battery terminal wire and the spark plug wires. The design of the Clutch on your machine is for rugged, dependable service, however, it is important to understand the limitations of a Clutch. The Clutch design is to provide load free starting of the Engine, and slippage under excessive overloading of the driven application. These features help protect the Engine from damages such as broken crankshafts and starters. The Shoes and Springs on the Clutch are normal wear items. If you notice decreased performance of the Clutch, check and replace them if necessary. The Clutch obtains its power from the Engine RPM. The lower the engagement speed, and the higher the maintained Engine speed, the more torque the Clutch can transfer to the driven unit. NEVER operate the DR ROADTOWABLE CHIPPER Engine at less than full RPM. NOTE At engine startup, the engine of your chipper operates under no load until approximately 1000-1200 RPM for both the 18 and 19 HP models, at which speed the centrifugal clutch engages and begins driving the rotor. NOTE Use tape wrapped pliers to avoid nicking the Spring. 4. Carefully note the position of Shoes and remove Shoes from the Hub Figure 20 . 5. Position the new Shoes correctly on the Hub, noting how the old ones were removed. 6. Place one end of each Spring over a Shoe pin, stretch the Spring just enough to clear pin on the other Shoe. Use tape wrapped pliers to avoid nicking the Spring. Avoid over stretching that may damage the Spring. Repeat for all Shoes. 7. Reassemble the Drum to the Hub, reinstall the Washer on Hub Shaft and secure in place with the Retainer Ring Figure 20 . 8.

Clean the engine crankshaft and remove any burrs, then apply anti-seize compound to the crankshaft. 9. Install the Key in the keyway of the Clutch hub, align the Key with the slot in the engine crankshaft, and then slide the rebuilt Clutch Assembly onto the crankshaft followed by the Spacer, Washer, and Clutch Bolt Washer and Bolt for the 19 HP. Tighten the Bolt securely. 10. Reinstall the Drive Belts and set the Drive Belt tension and alignment per Steps 3 through 5 on page 35. 11. Reinstall the Belt Guard. Figure 20 Retainer Ring Flat Washer Drum Hub Shoe Spring

Charging the Battery Operate the engine for at least 45 minutes to maintain proper battery charge. If the battery loses its charge, you will need to use a trickle charger like the DR Battery Charger to recharge it. This will prevent sediment from gumming up the carburetor. If there is dirt or moisture in the gas or tank, remove it by draining the tank. Completely fill the tank with fresh, unleaded gas and add the appropriate amount of stabilizer or gasoline additive. Run the engine for a short time to allow the additive to circulate. Make sure the storage temperatures will never be outside these limits. Consult the Troubleshooting Table below for common problems and their solutions. If you continue to experience problems, call Country Home Products, Inc. SYMPTOM POSSIBLE CAUSE The engine won't start using electric start. Please refer to the Engine Owner's manual for engine specific procedures. Is the Fuel ShutOff valve in the ON position Are the spark plug wires attached Have you checked all the items under the section called Electric Starting on page 26 There is a fuse in the wiring harness 19HP. Check the fuse and replace if needed. Check the wire connections—especially the ground connection, the large black wire coming from the battery, where it connects to the engine. Check the wire connections to the solenoid. Disconnect the black battery ground wire first to avoid sparks.

Check to be sure that all of the connections are clean and tight. Reconnect the battery ground wire. Check the ground connection on the solenoid where it's bolted to the frame. Using a wrench or socket, tighten the bolts to ensure a good connection to the frame. Is your battery charged. Check the voltage yourself or at a gas station. If it's low, charge it with a 12volt, 1 to 2 Amp trickle charger. If you don't use your Chipper for at least 45 minutes at a time, the battery may need to be periodically charged. See the Battery Care section on page 44. If your battery is charged and your DR ROADTOWABLE CHIPPER still won't start, call 1800 DROWNER 3769637 for assistance. Is the Throttle Lever in the Run position Is the Choke lever pushed all the way IN to the RUN position. See page 26. Is the air filter clean. If it's dirty, change it following the procedure in the Engine Owner's Manual. Are the spark plugs clean. If they are fouled or cracked, change them. If they are oily, leave them out, hold a rag over the spark plug holes and engage the electric starter for a few seconds to blow out any oil in the cylinders, then wipe off the spark plugs and reinsert them. Are you using fresh, clean unleaded gas. If it's old, change it. Use a fuel stabilizer if you keep gas longer than two weeks or so. Does your engine have the right amount of clean oil. If it's dirty, change it following the procedure on page 33. If your engine still lacks power, call 1800 DROWNER 3769637 for assistance. Engine smokes. Check the oil level and adjust as needed. You may be operating the machine on too great an incline. The machine should be level. Check the air filter and clean or replace if needed. You may be using the wrong oil too light for the temperature. Refer to your Engine Owner's Manual for detailed information. Clean the engine cooling fins and the carburetor housing if they're dirty. If the engine still smokes, call 1800 DROWNER 3769637 for assistance.

Chipping action seems too slow or flywheel stalling. The engine speed is too slow causing the belt to slip. Run the engine at full throttle. Check for loose or damaged Drive Belts; tighten or replace. See page 35. Check for a dull or damaged Knife; sharpen or replace the Knife. See page 38. The belt frays or rolls over the pulley. The rotor Drive Pulley groove may be nicked. Check the Drive Belts for wear and hard spots. File off any nicks on the pulley. The Drive Belts may be stretched; replace them. See page 35. Clutch overheats. Belt burns. Flywheel won't turn. Immediately stop the engine and disconnect the spark plug wires. Turn the flywheel with a wooden stick to be sure it turns freely. Check the Drive Belt tension. See page 35. Remove any buildup debris from the Chipper Hopper Inlet and Discharge Chute. See page 38. The Knife may not be properly seated on the flywheel. Loosen the Knife mounting screws, reset the Knife and tighten the screws. Also, check the Wear Plate Gap. See page 40. If the machine still exhibits excessive vibration, call 1800 DROWNER 3769637 for assistance. When chipping, the log seems to vibrate excessively and "hammers" my hands. The Knife is dull; sharpen or replace it. See page 38. The gap between the Knife and Wear Plate is too great; adjust the Gap. See page 40. Chipper Knife is hitting the Wear Plate. The gap between the

Knife and the Wear Plate is set incorrectly; adjust the Wear Plate Gap. Replace worn or broken Clutch parts. See page 41. Loose Drive Belt; adjust the Drive Belt tension. See page 35. Remove any buildup debris from the Chopper Hopper Inlet and Discharge Chute. The machine's wheels track left or right while being towed. Check the tire pressure. There should be 60 psi in each tire. The engine manufacturer warrants the engine separately.

For the purposes of all the above warranties, "ordinary and normal consumer use" refers to noncommercial residential use and does not include misuse, accidents or damage due to inadequate maintenance. Country Home Products, Inc. The 2 Year Limited Warranty is applicable only to the original owner. The warranty holder is responsible for the performance of the required maintenance as defined by the manufacturer's owner manuals. The warranty holder is responsible for replacement of normally wearing parts such as the drive belt, knife, wear plate, bearings, flex guards, and battery. Attachments and accessories to the machine are not covered by this warranty. During the warranty period, the warranty holder is responsible for the machine transportation charges, if required. During the warranty period, warranty parts will be shipped by standard method at no charge to the warranty holder. Expedited shipping of warranty parts is the responsibility of the warranty holder. SOME STATES DO NOT ALLOW LIMITATIONS ON THE LENGTH OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. Country Home Products, Inc. For that reason, we operate a 6 day a week Technical Service Department for our Owners. You can access a Representative by dialing our TOLLFREE Hotline at 1800DROWNER 3769637. The sole job of our welltrained and friendly folks is to ensure that you get any help you need in a timely fashion. They are there to answer all your questions including 1 inquiries on any of the above warranties, 2 inquiries about replacement parts, or 3 your questions regarding service, maintenance and operation. Our Customer Service Representatives will also be happy to answer any of your questions regarding the separate warranties on all engines.

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