

DR® PRO-62V CHAINSAW

SAFETY & OPERATING INSTRUCTIONS



Serial No. _____

Order No. _____

DR® Power Equipment
Toll-free phone: 1-800-DR-OWNER (376-9637)
Fax: 1-802-877-1213
Website: www.DRpower.com

WARNING

Read and understand this manual and all instructions before operating the DR® PRO-62V CHAINSAW.

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Conventions used in this manual

⚠ DANGER

This indicates a hazardous situation, which, if not followed, **will** result in death or serious injury.

⚠ WARNING

This indicates a hazardous situation which, if not avoided, **could** result in death or serious injury.

⚠ CAUTION

This indicates a hazardous situation which, if not avoided, **could** result in minor or moderate injury.

NOTICE

This information is important in the proper use of your machine. Failure to follow this instruction could result in damage to your machine or property.

Serial Number and Order Number

A Serial Number is used to identify your machine and is located on the Serial Number Label on your machine (**Figure 1**). An Order Number is used to check and maintain your order history and is located on the upper left portion of your packing slip. For your convenience and easy reference, enter the Serial Number and Order Number in the space provided on the front cover of this manual.

Additional Information and Potential Changes

DR Power Equipment 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.



Figure 1

Chapter 1: General Safety Rules

! WARNING

Read this safety & operating Instructions manual before you use the DR® PRO-62V CHAINSAW. Become familiar with the operation and service recommendations to ensure the best performance from your machine. If you have any questions or need assistance, please contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637) and one of our Technical Support Representatives will be happy to help you.

Labels

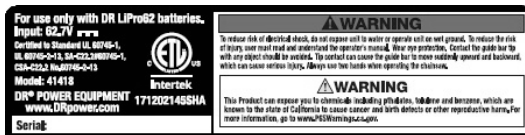
Your DR® PRO-62V CHAINSAW carries prominent labels as reminders for its proper and safe use. Shown below are copies of all the Safety and Information labels that appear on the equipment. Take a moment to study them and make a note of their location on your DR® PRO-62V CHAINSAW as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.



41715 (Battery)



41720 (Battery)



#41730 (Chainsaw)



41722 (Battery Charger)

Protecting Yourself and Those Around You

! WARNING

- When felling a tree, keep everyone a safe distance from the cutting area. During felling operations, the safe distance should be at least twice the height of the largest trees in the felling area. If the tree makes contact with any utility line, notify the utility company.
- If the tree starts to fall in the wrong direction, or if the Chainsaw is caught or hung up during the fall, leave the Chainsaw and save yourself.
- Only allow responsible individuals who have a thorough understanding of these instructions to operate the Chainsaw.
- If you are ever unsure about an action you are about to take, please do not do it.

Safety for Children and Pets

! WARNING

Tragic accidents can occur if the operator is not alert to the presence of children and pets. Children are often attracted to the Chainsaw and the cutting activity. *Never* assume that children will remain where you last saw them. Always follow these precautions:

- Keep children and pets at least 50 feet from the working area and ensure they are under the watchful care of a responsible adult.
- Be alert and turn the machine off if children or pets enter the work area.
- Never allow children to operate the PRO-62V CHAINSAW.

Dressing Appropriately

WARNING

- Always wear protective Goggles or Safety Glasses with side shields that are marked to comply with ANSI Z87.1 standard when using your DR® PRO-62V CHAINSAW to protect your eyes from possible thrown objects.
- We recommend the use of ear protectors or earplugs rated for at least 20 dB to protect your hearing.
- Wear Shoes with non-slip treads when using the Chainsaw. If you have safety shoes, wear them. Do not use the Chainsaw while barefoot or wearing sandals with exposed toes or heels.
- We recommend wearing a Hard Hat, in caution of falling Limbs and debris .
- We recommend wearing Long Pants and Gloves while using this Saw
- Avoid wearing loose clothing or jewelry which can catch in the Chainsaw's Chain.

Operating Your Chainsaw Safely

DANGER

- If the Chainsaw jams on any electrical cord or line, do not touch the Bar or Chain, they can become electrically live and very dangerous. Safely disconnect the damaged electrical cord or line from its power source. If in doubt, call an Electrician or an Electrical Contractor for assistance. Failure to heed this danger will result in death or serious personal injury.
- This Chainsaw can sever body parts! Keep hands and feet away from the Chain and always keep both hands on the Handles.

WARNING

- Do not use your DR PRO-62V CHAINSAW for any job other than the intended use.
- Avoid unintentional starting - Do not carry the Saw with your finger on the Power Switch.
- Never use the Front Damper as a Handle; this could result in a serious personal injury.
- Remove the Battery Pack when inspecting or cleaning material from the Chainsaw.
- Never pick up or hold the Chainsaw by the cutting Chain.
- Be aware that the cutting Chain coasts to a stop after releasing the Power Switch; it does not stop immediately.
- Never over reach and keep proper footing and balance at all times.
- Do not operate the Saw in the rain.
- Stay alert and watch what you are doing. Do not operate the Chainsaw when you are tired or under the influence of medication, drugs, or alcohol.
- Operate only in daylight or in an area well-lit by artificial light.
- Do not force the Chainsaw when cutting, allow the Chainsaw to ease into the cut. The Chainsaw will do the job better and safer at the rate for which it was designed.
- Do not operate the Chainsaw while on a ladder, scaffolding or in a tree. Operating a Chain Saw while in these instances may result in personal injury.
- Always keep proper footing on solid ground while operating a Chainsaw.
- When cutting a limb that is under tension be alert for spring back. When the tension in the wood fibers is released the spring-loaded limb may strike the operator and/or throw the Chainsaw out of control.
- If the Chainsaw vibrates abnormally, stop the Motor, remove the Battery Pack, and inspect the Chainsaw for any damage. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other condition that may affect its operation. Repair the damage before restarting and operating the Chainsaw. Excessive vibration is generally a sign of trouble.
- Do not operate the Chainsaw if it does not start normally or stop normally with the Switch Trigger.
- Never use the Chainsaw with a damaged or missing Side Cover, Handles or Front Damper.

Handling the Battery Pack Safely

WARNING

- Always charge the Battery Pack indoors, never charge it the rain or in wet conditions.
- Use only the DR® 62V Charger with DR® 62V Battery Packs. Do not use the DR® 62V Charger with Battery Packs from other manufacturers or other DR® products. Use of a different Charger may cause a fire or explosion.
- Never attempt to alter or open the Battery Pack or Charger. There are no customer serviceable parts inside.
- Use normal household voltage (110 volts) when charging the Battery Pack. Plug the Charger Power Supply directly into the electrical outlet.
- Exercise care in handling the Battery Pack in order not to short-circuit it with conducting materials such as rings, bracelets, and keys. When short-circuited, the Battery Pack or conductor may overheat and cause burns.
- Electrolyte leakage from the Battery Pack can be harmful causing serious chemical burns if on the skin or in the eyes. Remove contaminated clothing and wash skin with soap and water. If electrolyte gets in your eyes, flush with cold water for at least 15 minutes and seek medical attention.
- Inhalation of vapors from a ruptured Battery Pack can cause respiratory irritation. In case of Inhalation of fumes get fresh air and seek medical attention.
- Never dispose of the Battery Pack in a fire, as the Battery Pack may explode.
- Never open or mutilate the Battery Pack; released materials are flammable.
- If fire or explosion occurs, do not breathe the fumes. A burning Battery Pack will create toxic fumes. Fire fighters should use self-contained breathing apparatus.
- NEVER USE WATER on a burning Battery. If possible, separate the Battery Pack from other flammable materials and use ABC rated fire extinguishers. Sand may be used to smother the fire if a fire extinguisher is not available.
- Do not ship damaged Battery Packs and be sure to use the original packaging materials when shipping Batteries and tools back to DR® Power Equipment if you decide you do not want them. Special labeling on the packaging is required because the Batteries are considered hazardous materials. Check with airlines before trying to check Lithium Batteries with your baggage. New regulations are being considered that may restrict packaging and shipping of these Batteries as well as tools with Batteries installed.
- Please dispose of your used Battery Packs responsibly by recycling them, never throw away used Battery Packs in your household trash. Call your local Solid Waste Management District or your local waste handler to locate the collection site nearest you. Some collection sites recycle Battery Packs year-round; others collect them periodically.

California Proposition 65

WARNING

This Product can expose you to chemicals including phthalates, toluene and benzene, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

A Note to All Users

No list of warnings and cautions can be all-inclusive. If situations occur that are not covered by this manual, the operator must apply common sense and operate this DR® PRO-62V CHAINSAW in a safe manner. Contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.

Chapter 2: Setting Up the DR® PRO-62V CHAINSAW

It may be helpful to familiarize yourself with the controls and features of your DR® PRO-62V CHAINSAW as shown in *Figure 2* before beginning these procedures. If you have any questions at all, please feel free to contact us at www.DRpower.com.

DR® PRO-62V CHAINSAW Controls and Features

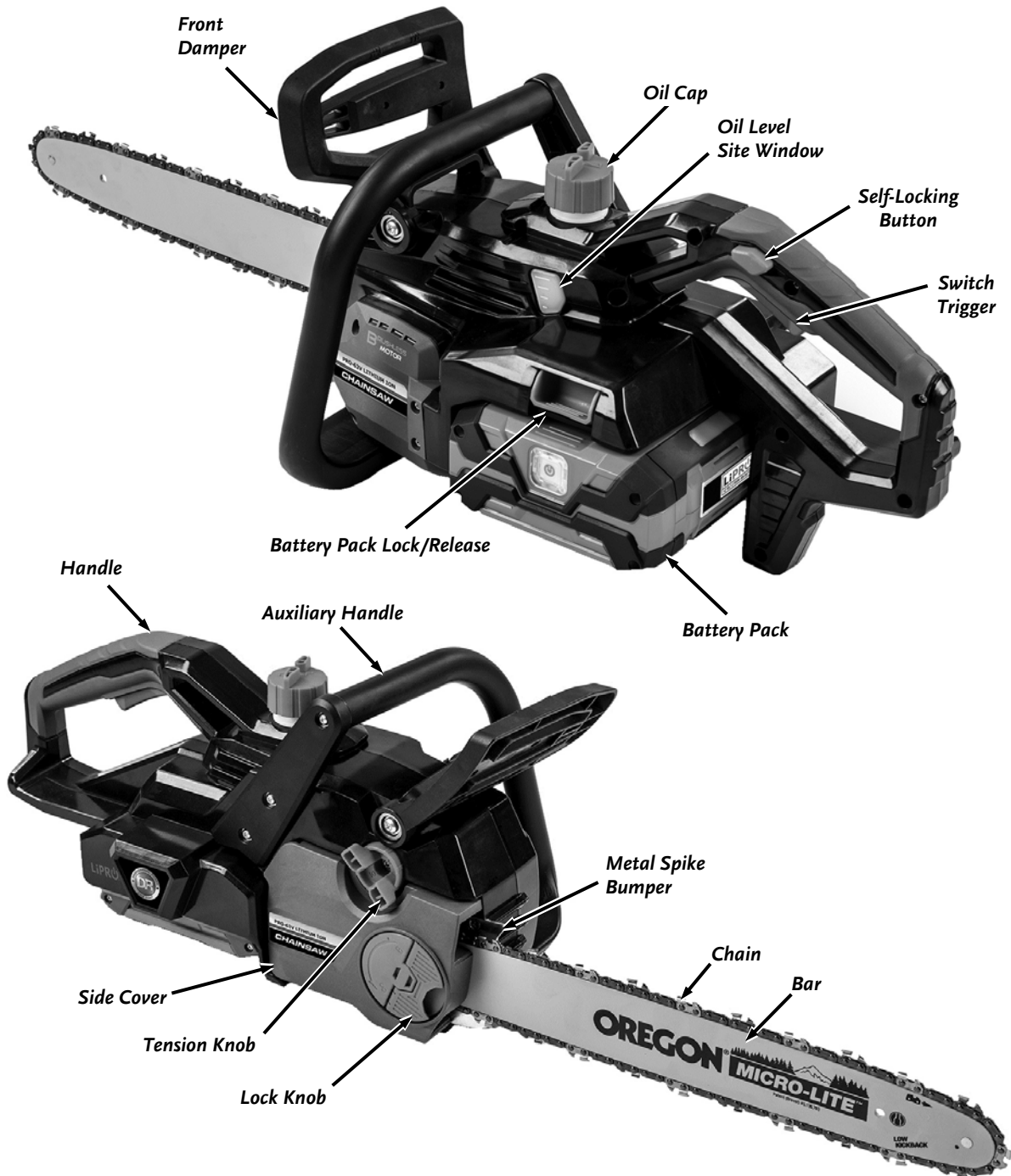


Figure 2

Specifications

Chainsaw Model	DR® PRO-62V Chainsaw, 41417/41418
Bar Length	16", Oregon Bar and Chain
Rated Voltage	54V DC, Max Voltage (Peak Voltage 62V)
Motor	1500W Brushless
Chain Tensioner	Tool Free
Weight	9.9 Lbs. Chainsaw Only. 12.7 Lbs. w/2.5Ah Battery
Run Time	Up to 100 cuts on 4" Logs
Oil Level	Site Window
Chain Brake	Yes
Oil Tank Capacity	180 ml
41423 Battery Charger	
Input:	100~120VAC 50/60Hz MAX 3A
Output:	Auto Sensing 62VDC 2.5A
Charge Time	60 Minutes
41421 Li-ion Battery Pack	
Voltage Per Cell	3.6V
Number Of Cells	15
Battery Pack Voltage	62V
Battery Power Level	LED Gauge
USB Port:	1
Capacity	2.5Ah

Main Parts (Figure 3 and Table below)

Item#	Description	Qty
1	Chainsaw Body	1
2	2.5Ah Battery Charger	1
3	2.5Ah Battery	1
4	16" Chain	1
5	16" Bar	1
6	16" Bar Cover	1

Use **Figure 3** and the list above to check the parts you received in the package. If you have any questions, please contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.



Figure 3

Charge the Battery Pack before your first use

The DR PRO-62V Chainsaw uses a sealed, Lithium-Ion Battery Pack. You MUST charge the Battery Pack for at least 60 minutes before you use the Chainsaw for the first time. If you do not charge it before using the Chainsaw, the Battery Pack's charging capacity may decrease.

NOTICE

- Make sure the Charger Power Supply is plugged into a normal household voltage, 120volts, 60Hz, AC only.
- You should operate the Battery Charger in a dry place with temperatures between 50°F (10°C) and +100°F (+37.8°C). Operating above +100 °F can cause Battery Pack leakage, rust, or degradation of the Battery Pack performance.



Figure 4

1. Connect the charger to a 120VAC outlet. When the Battery is not installed (no load condition): the Red LED will be lit.
2. Insert the Battery into the Charger (**Figure 4**). Under normal charging the Green LED will Blink.
3. When the Battery is fully charged, the Green LED will remain light, indicating that charging is complete.
4. Unplug the Charger from the Outlet and remove the Battery.

Note: There are more detailed instructions for charging and maintaining the Battery/Charger in Chapter 4

Assembling Your DR PRO-62V CHAINSAW

1. Locate a clean flat surface to work on.
2. Remove the Side Cover by turning the Lock Knob counter clockwise (**Figure 5**).
3. Check to make sure that the Chain Brake is disengaged by pulling back on the Front Damper (**Figure 6**).
4. Position the Bar Slot over the Bar Post and Pins (**Figure 7**). Ensure that the Tension Nut is fully into the Bar Tension Hole.
5. Feed the Chain onto the Sprocket and Bar with the sharp Tooth edge (on the top side of the Bar) facing forward (**Figure 8**). Start from the Sprocket and work clockwise feeding the Chain around the Bar.
6. Loosely secure the Side Cover onto the Bar Post (**Figure 9**).
7. Turn the Tensioning Knob clockwise to tension the Chain until the Chain is snug on the bottom of the Bar and the Chain can be turned easily by hand. Once the Chain Tension is set, tighten the Side Cover with the Lock Knob.

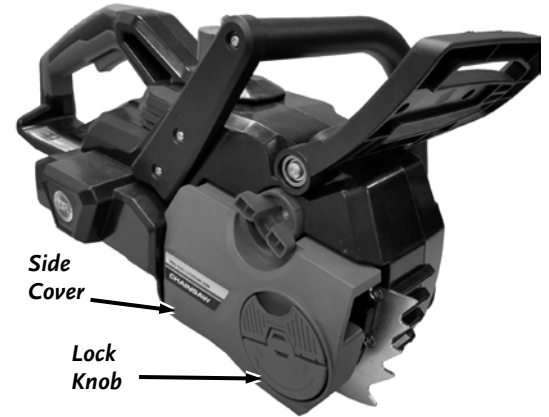


Figure 5

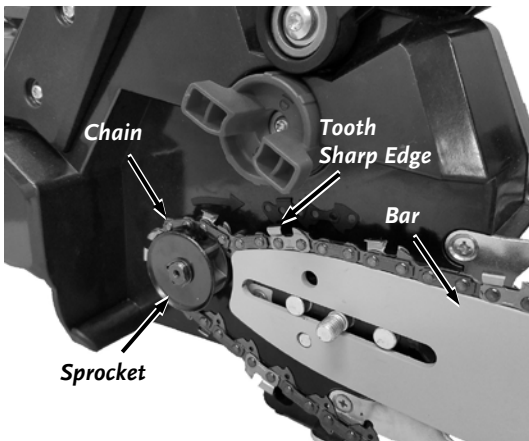


Figure 8

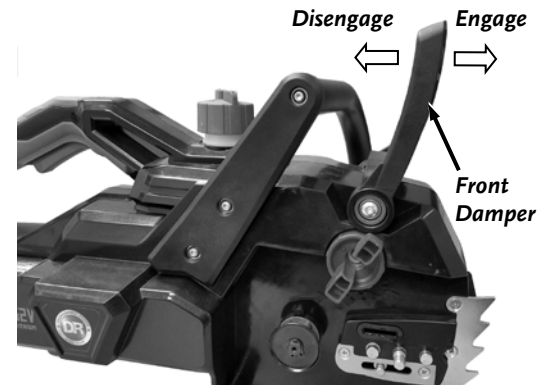


Figure 6

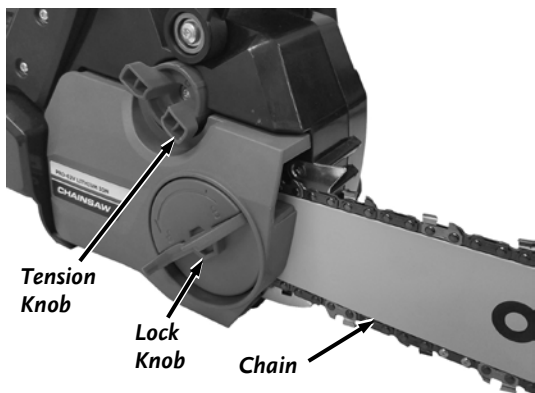


Figure 9

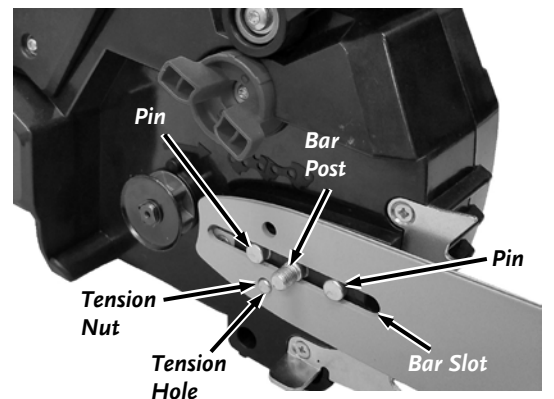


Figure 7

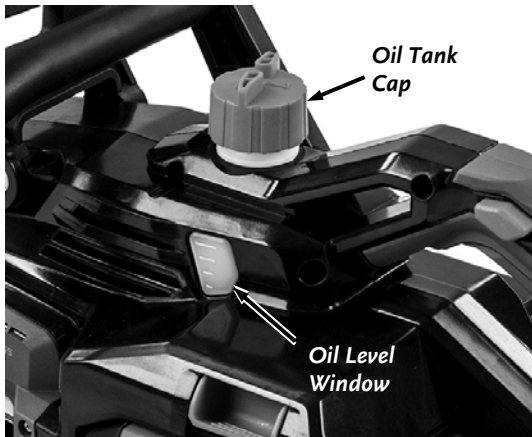


Figure 10

Filling the Oil tank

1. Remove the Oil Tank Cap and add #32 Bar & Chain Oil to the top line of the Oil Level Window (**Figure 10**). Replace and tighten the Oil Tank Cap.

Installing the Battery Pack

1. Slide the Battery Pack into the Battery cradle on the Chainsaw Housing, aligning the ribs in the cradle with the slots in the Battery until it is latched into place (**Figure 11**).
2. Check that the Battery is securely locked into place.

Removing the Battery

To remove the Battery, press and hold the Battery Self Lock Button on the left side of the Chainsaw Housing and slide the Battery out of the Chainsaw.

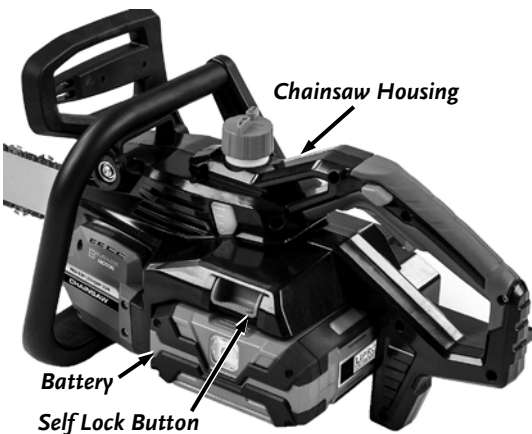


Figure 11

Chapter 3: Operating the DR® PRO-62V CHAINSAW

It may be helpful to better familiarize yourself with the features of your Chainsaw by reviewing **Figure 2** in Chapter 2 before beginning the steps outlined in this chapter.

Before Using the Chainsaw

As a Chainsaw user, you should take several steps to keep your cutting jobs free from accident or injury. You should observe the following precautions before using the Chainsaw to avoid Kickback:

WARNING

Kickback of the Saw is a condition that may occur when the moving Chain contacts an object at the upper portion of the Tip of the Bar (**Figure 12**) or when the wood closes in and pinches the Chainsaw in the cut causing the Chain to stop for an instant. The result is a lightning fast, reverse reaction that kicks the Bar up and back toward the operator that can cause loss of Chainsaw control which can result in serious injury. Do not rely exclusively upon the safety devices built into the Chainsaw

- Always grip the Saw firmly with both hands. A firm grip together with a stiff left arm will help you maintain control of the Saw if Kickback occurs.
- Make sure that the area in which you are cutting is free from obstructions. Don't let the Nose of the Bar contact a log, branch, fence or any other obstruction that could be hit while you are operating the Saw.
- Push and Pull - This is a reaction force always opposite to the direction the Chain is moving where contacting the wood. Thus, the operator must be ready to control the PULL when cutting on the bottom edge of the Bar, and PUSH when cutting along the top edge.

Chain Brake Operation

Your DR PRO 62V CHAINSAW is equipped with a Chain Brake that is connected to the Front Damper to activate under extreme Kickback conditions (**Figure 13**). In the event of a Chain Kickback, the Saw will rotate back and into your left hand which will push the Front Damper forward, engaging the Chain Brake.

After the Chain Brake has been activated, you must pull the Front Damper to the rear to disengage the Brake before using.

You can also engage the Chain Brake to prevent unintentional rotation of the Chain while transporting the Chainsaw, or switching between cuts. To Engage the Chain Brake, push the Front Damper forward. To disengage the Chain Brake, pull the Front Damper back.



Figure 12

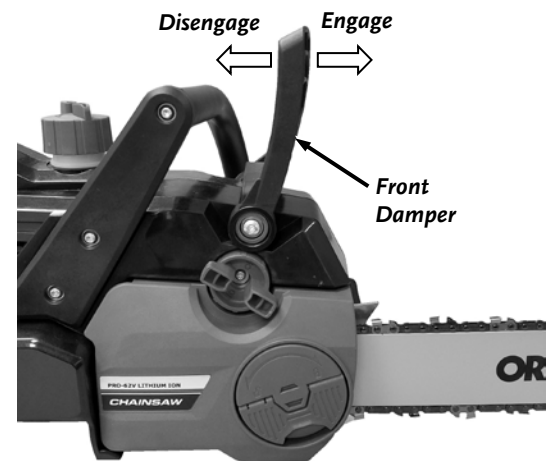


Figure 13

Starting The 62V CHAINSAW

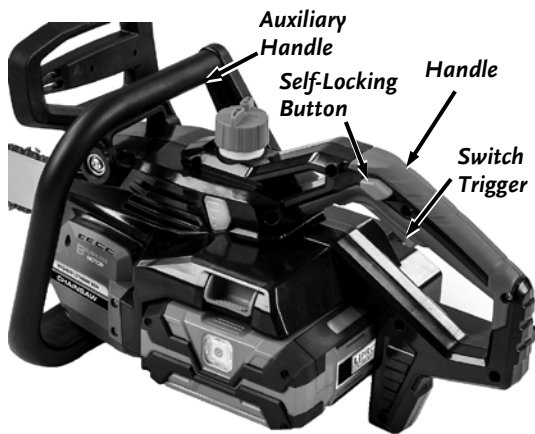


Figure 14

1. Perform the Daily Checklist on the back cover of this Manual.
2. Check to make sure that the Chain Brake is not engaged, by pulling back on the Front Damper (**Figure 6**).
3. Firmly grip the Chainsaw Auxiliary Handle with your left Hand and the Handle with your right Hand. Ensure that the Chain Is not contacting anything.
4. Press the Switch Trigger Self-Locking Button in with your thumb and squeeze the Switch Trigger with your fingers (**Figure 14**). Once the Motor starts, you can remove your thumb from the Self-locking Button. If the Motor does not start, check the Battery connection and Power Status.
5. To Stop the Chainsaw, release your fingers off the Switch Trigger.

Note: Check the Chain run down time before using the Chainsaw for the first time. The Chain run down time is how long it takes for the Chain to stop when the Switch Trigger is released. The Chain should stop within two seconds after the Switch Trigger is Released. If the Chain does not stop within 2 seconds, do not use the Chainsaw and consult a repair shop.

Proper Cutting Stance

- Balance your weight with both feet on solid ground.
- Keep left arm with elbow locked in a "straight arm" position to withstand any Kickback force (**Figure 15**).
- Your body should always be to the left of the Chain Line.

Basic Cutting Tips and Procedures

Practice cutting a few small logs using the following technique to get the "feel" of using the Chainsaw before you begin a major sawing operation.

- Take the proper stance in front of the wood with the Saw OFF.
- Bring the Metal Spiked Bumper into contact with the branch to be cut before switching the Chainsaw on. Cutting without bringing the Metal Spiked Bumper into contact with the branch may cause the Bar to wobble, resulting in injury to operator.
- Start the Chainsaw and let the Chain accelerate to full speed before entering the cut.
- Keep the Chainsaw running the entire time you are cutting, maintaining a steady speed.
- Allow the Chain to cut for you; exert only light downward pressure. If you force the cut, damage to the Bar, Chain, or Chainsaw can result.
- Do not put pressure on the Saw at the end of the cut.
- Do not cut above chest height, as a Chainsaw held higher is difficult to control against Kickback forces.

Pruning Trees and Branches

Note: When pruning trees, it is important not to make the finishing cut next to the main limb or trunk until you have cut off the limb further out to reduce the weight. This prevents stripping the bark from the main member.

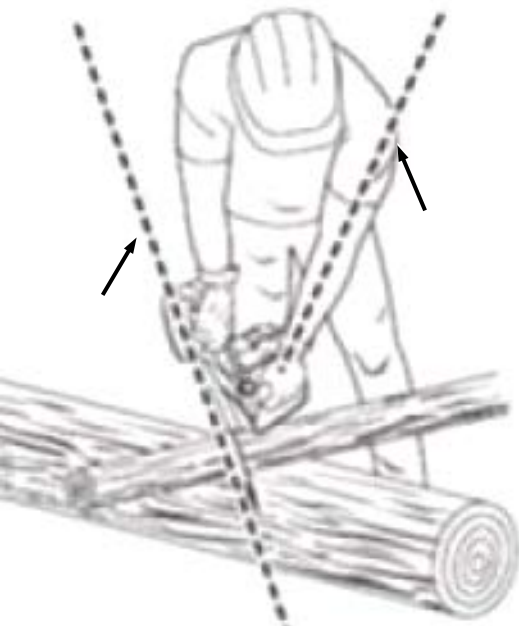


Figure 15

1. For your first cut, undercut the branch 1/3 through the diameter of the branch (**Figure 16**).
2. For your second cut, overcut the first cut to drop the branch off.
3. Now make your finishing cut from the topside of the branch smoothly and neatly against the main member so the bark will grow back to seal the wound.

Felling Trees

DANGER

Trees should not be felled in a manner that would endanger any person, strike any Utility Line or cause any property damage. Trees felled on a Utility Line could kill the operator. If the tree does make contact with any Utility Line, the Utility Company must be notified immediately.

The Chainsaw operator should keep themselves on the uphill side of the terrain as the tree is likely to roll or slide downhill after it is felled. An escape path should be planned and cleared as necessary before cuts are started. The escape path should extend back and diagonally to the rear of the expected line of fall (**Figure 17**). Before felling is started, consider the natural lean of the tree and the location of larger branches.

CUTTING THE NOTCH

1. Make the first horizontal cut of the Notch 1/3 through the diameter of the tree, perpendicular to the direction of where you want the tree to fall (**Figure 18**). Always Make the lower horizontal notching cut first, this will help to avoid pinching either the Saw Chain or the Bar when the second notch cut is being made.
2. Make the second notch cut at 45° angle to the horizontal cut until the two cuts intersect.

FELLING BACK CUT

Note: The hinge wood mentioned in the next step keeps the tree from twisting and falling in the wrong direction. Do not cut through the hinge.

1. Make a felling back cut at least 2 inches higher than and parallel to the horizontal notch cut with enough wood is left to act as a hinge.
2. As the felling back cut gets close to the hinge, the tree should begin to fall.
3. If there is any chance that the tree may not fall in the desired direction or it may rock back and bind the saw chain, stop cutting before the felling back cut is complete and use wedges of wood, plastic or aluminum to open the cut and drop the tree along the desired line of fall.
4. When the tree begins to fall, remove the Chain Saw from the cut, stop the motor, put the Chainsaw down, and move away from the tree using the planned retreat path. Be alert for overhead limbs falling and watch your footing.

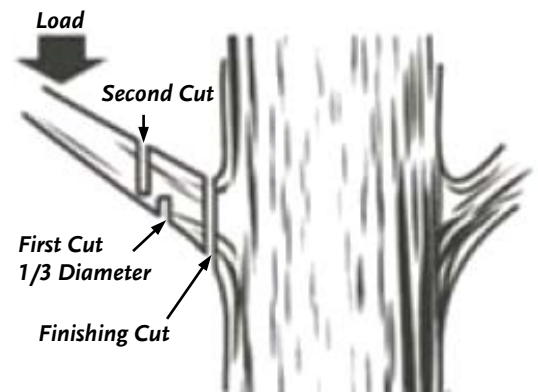


Figure 16

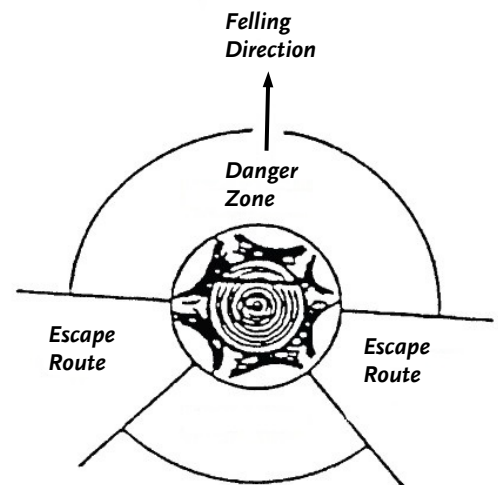


Figure 17

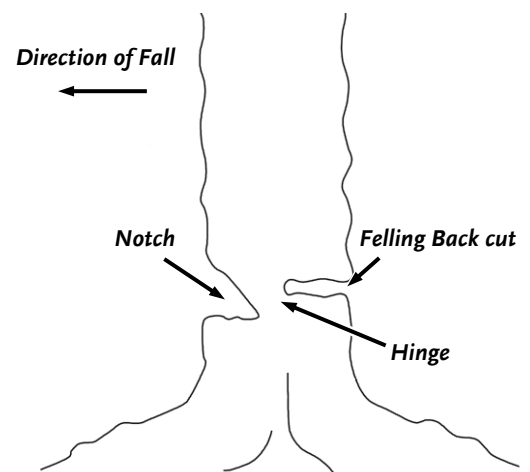


Figure 18



Figure 19

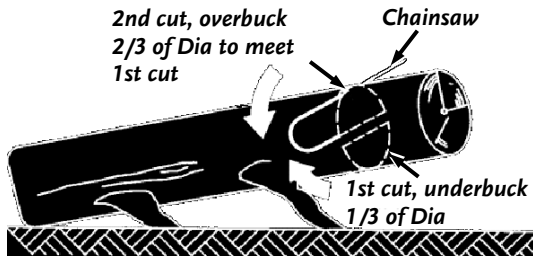


Figure 20

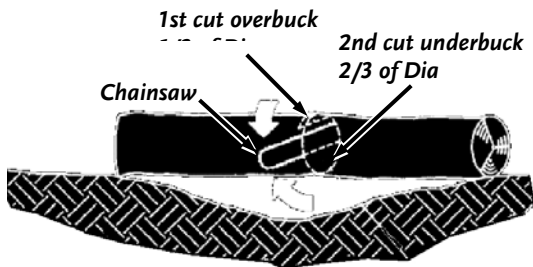


Figure 21

Bucking A Log

Bucking is cutting a log into lengths. It is important to make sure your footing is firm and your weight is evenly distributed on both feet. When possible, the log should be raised and supported with limbs, logs, or chocks. Follow the below guidelines for easy cutting.

- When the log is supported along its entire length make your cuts from the top. This is called Overbucking (**Figure 19**).
- When the log is supported on one end, make your first cut $\frac{1}{3}$ the diameter from the underside, this is called Underbucking (**Figure 20**). Then make the finish cut by Overbucking to meet your first cut.
- When the log is supported on both ends, make your first cut by Overbucking $\frac{1}{3}$ the diameter from the top. Make your finish cut by Underbucking the lower $\frac{2}{3}$ to meet the first cut (**Figure 21**).
- When bucking on a slope always stand on the uphill side of the log. When cutting through the log, maintain control by releasing the cutting pressure near the end of the cut without relaxing your grip on the Chainsaw Handles. Don't let the Chain contact the ground as this will cause damage to the Chain. After completing the cut, wait for the Saw Chain to stop before you move the Chainsaw to your next cut.

Additional Features

USB Charge Port

The Battery can be used to charge/operate phones or other electronic devices that use a USB cord.

1. Remove the Battery from the Chainsaw.
2. Plug the device into the USB Port of the Battery (**Figure 22**).



Figure 22

Chapter 4: Maintaining The DR® PRO-62V CHAINSAW

Regular maintenance is a good way to ensure the best performance and long life of your Chainsaw. Please refer to this Chapter for maintenance intervals and procedures.

⚠ WARNING

- Before performing any maintenance and to prevent injury, you must first remove the Battery.
- We recommend wearing Gloves when doing maintenance to avoid cuts.

Chain Tension

Check the Chain Tension before using the Saw when the Chain is cold. The correct tension of a cold Chain is when there is no slack on the underside of the Bar, the Chain is snug and you can turn it by hand without binding.

During normal Saw operation, the temperature of the Chain will increase. The Drive Links of a correctly tensioned warm Chain will hang approximately .050 in. (1.25mm) out of the Bar Groove (**Figure 23**). Be aware that a Chain tensioned while warm, may be too tight upon cooling. Check the "cold tension" before next use.

The Chain must be re-tensioned whenever the Flats on the Drive Links hang out of the Bar groove.

Note: A new Chain tends to stretch so check the Chain tension frequently and re-tension as required.

1. Loosen the Lock Knob by turning it counter clockwise to unlock the Bar and Chain (**Figure 24**).
2. **Cold Chain:** Remove all slack from the chain by turning the Tension Knob clockwise until the Chain seats snugly against the Bar with the Drive Links in the Bar groove.

Warm Chain: Remove all slack from the Chain by turning the Lock Knob clockwise until the Chain is approximately .050 inches (1.25mm) from the Bar with the Drive Links in the Bar groove.

Bar Maintenance

When the Bar shows signs of wear, turn it over so the top is on the bottom to distribute the wear for maximum Bar life. Feathering or burring of the Bar Rails is a normal process of Bar wear. You should smooth such faults with a Flat File as soon as they occur.

Replace a Bar with any of the following faults:

- Wear inside the Bar Rails permitting the Chain to layover sideways.
- Bent Bar
- Cracked or broken Rails
- Spread Rails

Oil Port

If the Oil level does not seem to be going down, or the Chain and Bar gets hot and is smoking, remove the Side Cover, Bar and Chain. Then check that the Oil Port is clear of debris (**Figure 25**). Once cleaned, reinstall the Bar, Chain, Side cover and follow the chain tensioning Procedure.

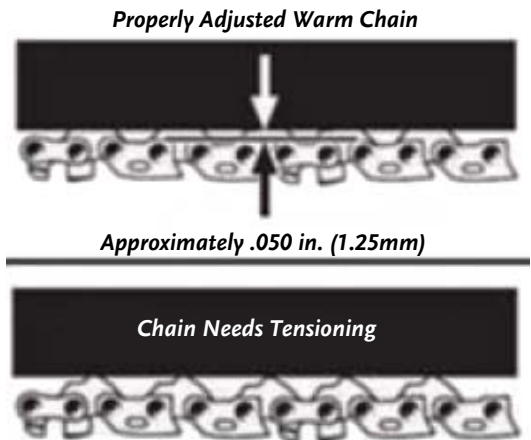


Figure 23

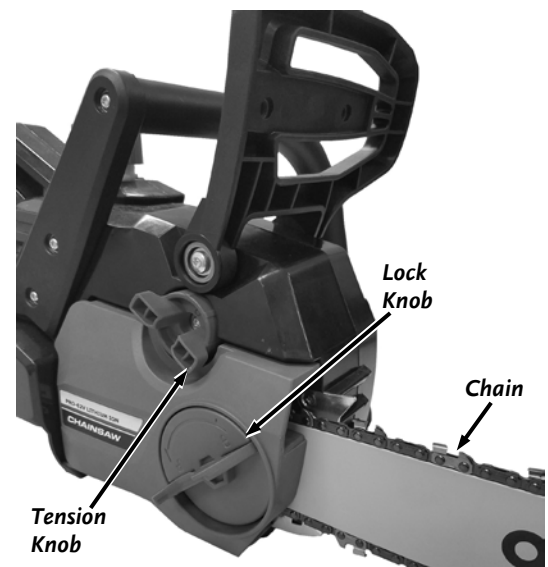


Figure 24

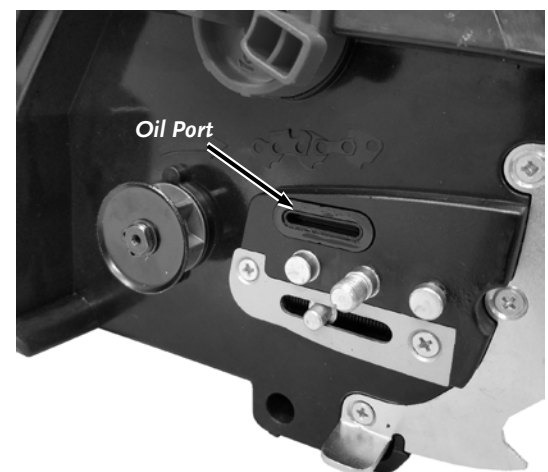


Figure 25

Sharpening the Chain and filing the Depth Gauge

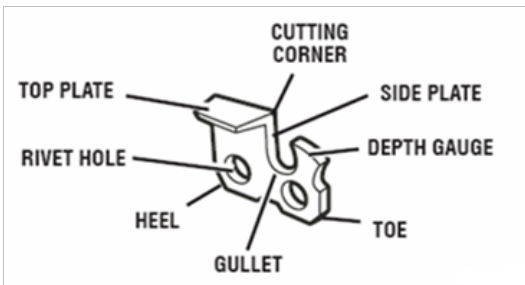


Figure 26

For smooth and fast cutting, the Chain needs to be maintained properly. The Chain requires sharpening when the wood chips are small and powdery, the Chain must be forced through the wood during cutting, or the Chain cuts to one side. Refer to (Figure 26) for description of chain features.

During maintenance of your Chain, remember:

- Raker (Depth Gauge) clearance.
 - Too low increases the potential for kickback.
 - Not low enough decreases cutting ability.
- If Cutter Teeth have hit hard objects such as nails and stones, or have been abraded by mud or sand on the wood, have service dealer sharpen Chain.
- Be careful to file all Cutters to the specified angles and to the same length, as fast cutting can be obtained only when all Cutters are uniform.
- Properly tension the Chain prior to sharpening. Refer to “Adjusting Chain Tension” Section earlier in this manual.
- Do all of your filing at the midpoint of the Bar.
- Use light but firm pressure when filing.
- Keep the File level with the Top Plate of the Tooth and do not let the File dip or rock.

⚠ WARNING

- Improper Chain sharpening increases the potential of kickback.
- Failure to replace or repair damaged Chain can cause serious injury.

⚠ CAUTION

Wear leather Gloves when maintaining the Chain to protect your hands from cuts.

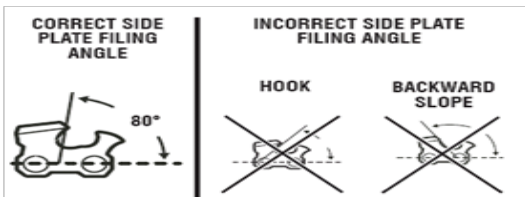


Figure 27

SIDE PLATE ANGLE (Figure 27)

Correct – 80 degrees produced automatically if correct diameter file is used in file holder.

Hook – “Grabs” and dulls quickly. Increases potential of kickback. Results from using a file with a diameter too small, or file held too low.

Backward Slope – Needs too much feed pressure, causes excessive wear to bar and chain. Results from using a file with a diameter too large, or file held too high.

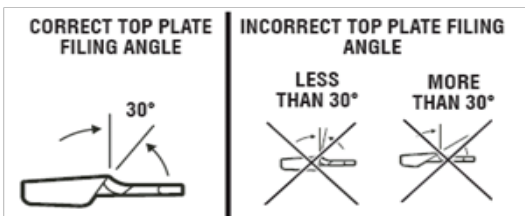


Figure 28

TOP PLATE FILING ANGLE (Figure 28)

Correct 30 degrees – File holders are marked with guide marks to align file properly to produce top plate angle.

- Less than 30 degrees – for cross cutting.
- More than 30 degrees – feathered edge dulls quickly.

Tools and Supplies Needed:

- Chainsaw File Holder
- 5/32" Round Chainsaw File
- Wire Brush
- Depth Gauge jointer
- Flat File
- Safety Glasses
- Gloves

Note: Occasionally remove filing from the file with a wire brush.

1. Position the File into a left hand cutter with the holder and file at a 30° angle to the Bar (**Figure 29 and 30**).
2. Keep the file level with the top plate of the tooth and do not let the file dip or rock.
3. Use light but firm pressure to stroke towards the front corner of the tooth and lift file away from the steel on the return stroke.
4. Sharpen every left hand tooth in the same direction.
5. Move to the other side and file the right hand cutters in the opposite direction remembering to lift file away from the steel on each return stroke.

Note: Every time the chain is filed, check the depth gauge clearance with a depth gauge jointer. The depth gauge should be maintained at a clearance of .025 in. (0.6 mm) (**Figure 31**). Depth gauge jointers are available in .020 in. to .035 in. (0.5 mm to 0.9 mm). Use a .025 in. (0.6 mm) depth gauge jointer.

6. Position the Depth Gauge Jointer (**Figure 32**) onto the top of the cutters with a Raker (Depth Gauge) in the slot at the end of the jointer.
7. If the Raker is above the Jointer, use a flat file to adjust the Raker down to be as close to level with top surface of the jointer without filing the Jointer.

Note: Depth gauges must be adjusted with the flat file in the same direction the adjoining cutter was filed with the round file. Use care not to contact cutter face with the file when adjusting depth gauges.

8. Check all remaining Rakers with the Depth Gauge Jointer and file as needed.
9. After lowering each depth gauge, restore original shape by rounding the front. Be careful not to damage adjoining drive links with the edge of the file (**Figure 33**).

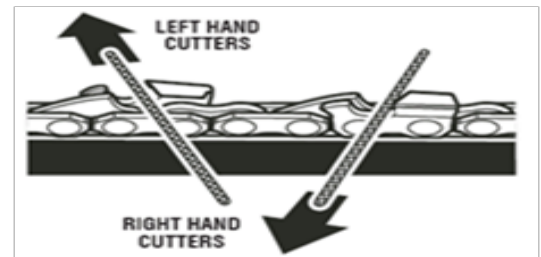


Figure 29

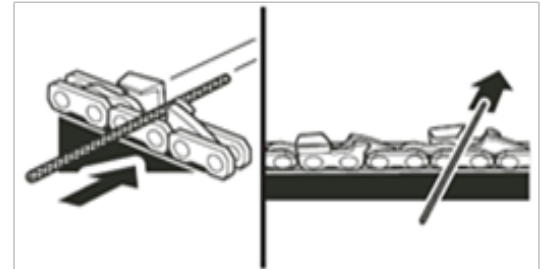


Figure 30



Figure 31

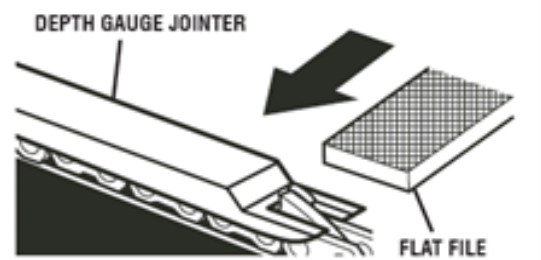


Figure 32

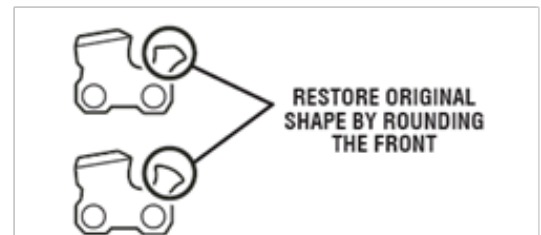


Figure 33

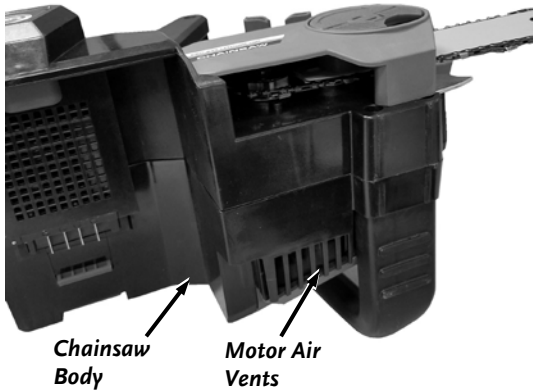


Figure 34

Motor Air Vent Cleaning

Tools and Supplies Needed:

- Clean Rags
- Pick

The Motor on your DR PRO-62V CHAINSAW breathes through Vents on the bottom of the Chainsaw Body (**Figure 34**). These may become blocked with Sawdust during the Sawing operation. The vents should be checked and cleaned before each use. To check and clean the Vents remove the Battery Pack and turn the Chainsaw Body on its side. Use a pick to remove any debris from the Vents and wipe the area Clean with a Rag.

Battery LED Lights (Figure 35)

You can check the charge percentage of your 62V Battery by pushing the Indicator Button on the front of the Battery. The number of Green LED indicators will tell you the % of power left in the Battery. 1-25%, 2-50%, 3-75% and 4-100%.

If you press the Indicator Button and only the fourth LED flashes, the Battery needs charging.

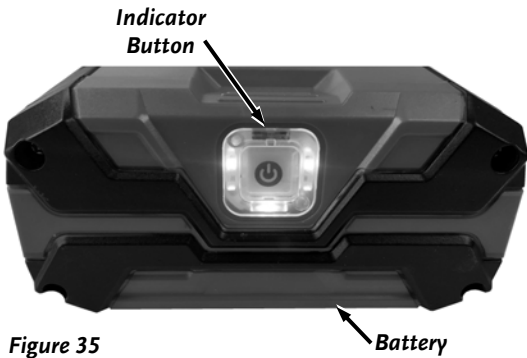


Figure 35

Charger indicator Lights (Figure 36)

Red LED Lit, Green LED is not lit; The Charger is plugged in but the Battery is not installed (no load condition).

Green LED blinks, Red LED is not lit; Battery is charging normally.

The Green LED is lit, Red LED is not lit; Battery is fully charged.

Green LED is not lit, Red LED blinks; There is a fault with the Battery or Charger. Remove the Battery from the Charger and wait about 30 minutes, then reinsert the Battery into the Charger.

If the Battery does not hold its charge for very long under normal conditions or it simply won't hold a charge, then replace it. You can purchase a replacement Battery directly from us at www.DRpower.com.

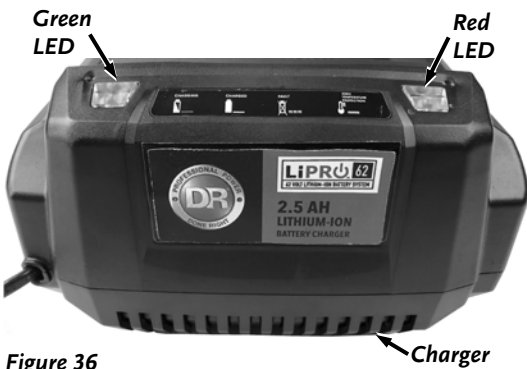


Figure 36

Additional Battery Pack and Charger Information

The Battery Pack should not leak, regardless of the position in which it is stored. Read “Handling the Battery Safely” in Chapter 1 Bfor additional information. The Battery Pack is completely maintenance free. You never need to add water. With all rechargeable Batteries, after years of use, they will eventually need replacement.

! CAUTION

Use only the DR® 62V Charger with DR® 62V Battery Packs. Do not try to use the DR® 62V Charger with Battery Packs from other manufacturers.

NOTICE

- Make sure the Charger Power Supply is plugged into a normal household voltage, 120volts, 60Hz, AC only.
 - You should operate the Battery Charger in a dry place with temperatures between 50°F (10°C) and +100°F (+37.8°C). Operating above +100 °F can cause Battery Pack leakage, rust, or degradation of the Battery Pack performance.
 - Disconnect Charger Power Supply from the household voltage power when not in use to prevent damage to the Charger during a power surge.
 - Periodically inspect the Power Cord on the Charger unit for damage. If damage occurs, do not use the Charger until you have replaced or repaired the Power Cord. Do not abuse the Power Cord. Never carry the Charger by the Power Cord. Always pull the Plug and not the Power Cord when disconnecting the Power Supply from the electrical outlet (wall outlet) and from the Charger. When using an Extension Cord with your Charger, use a heavy-duty Extension Cord of a type 'suitable for outdoor use' (although you should never charge the Battery Pack in the open outdoors).
 - The Battery Pack requires 2-3 charging and discharging cycles before reaching full charge ability.
 - A Battery Pack may last much longer if you charge it as soon as it starts to lose power and not let it completely discharge. Recharge the Battery Pack as soon as the cutting power of your Chainsaw is no longer effective. This would be a good time to have a spare Battery Pack ready to go. Recharge the Battery Pack for up to 60 minutes or until fully charged and remove it from the Charger.
 - A good time to consider purchasing a replacement Battery Pack is when it loses its power quickly.
-

Recycling a Used Battery

Please dispose of your used Batteries responsibly by recycling them. Call your local Solid Waste Management District or your local waste handler to locate the collection site nearest you. Some collection sites recycle Batteries year-round; others collect them periodically.

You can also visit the Website of Earth 911 for more information (www.earth911.com). Once there, click Recycle Guide at the top of the page, then click the Municipal HHW link under Hazardous Household Waste, and enter your zip code. The site lists recycling centers located near you.

For a fee, you can recycle your Batteries with the International Metals Reclamation Company. Visit them at www.inmetco.com and click Services, then click Battery Recycling; or contact them at: INMETCO, One INMETCO Drive, Ellwood City, PA 16117, (724) 758-5515; fax (724) 758-2845.

To learn more about hazardous waste recycling, visit the Website for Battery Council International (www.batterycouncil.org) or for the Environmental Protection Agency (www.epa.gov)

Chapter 5: Troubleshooting

Most problems are easy to fix. Consult the Troubleshooting Table below for common problems and their solutions. If you continue to experience problems, contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637) for support.

WARNING

Always remove the Battery Pack before performing any adjustments, maintenance, or repairs to your Chainsaw.

Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>The Chainsaw Motor fails to start.</i>	<ul style="list-style-type: none">⇒ Check that you installed the Battery Pack correctly and that the Battery Pack is fully charged.⇒ Make sure that you fully push in the Lock-Off Button before squeezing the ON/OFF Trigger Switch.
<i>The Battery Pack will not charge.</i>	<ul style="list-style-type: none">⇒ Check to see if the Battery Pack is all the way into the Charger. Insert the Battery Pack until the Green LED Light illuminates.⇒ The Charger Power Supply is not in a working outlet. Check the outlet with a lamp or other appliance.⇒ Check to see if the outlet that you are using for the Charger Power Supply is controlled from a wall switch.⇒ The surrounding air temperature is too hot or too cold. Move Charger and Battery Pack to a location where the surrounding air temperature is between 50°F (10°C) and +100°F (+37.8°C).
<i>The Bar and Chain are running hot and smoking.</i>	<ul style="list-style-type: none">⇒ The Chain is overtightened. Check and adjust the Chain tension.⇒ Chain Oiling Tank is empty. Check the Oil Level and fill accordingly.⇒ The Lubrication Port is plugged. Check and clean the Port.
<i>The Chainsaw Motor runs but the Chain does not turn</i>	<ul style="list-style-type: none">⇒ The Chain tension is too tight. Check and re tension Chain.⇒ The Chain Brake is on. Pull the Front Damper back to release the Chain Brake.⇒ Bar and/or chain may be damaged. Check the Bar and Chain for damage
<i>The Chainsaw motor runs, but the Chain speed is slow,</i>	<ul style="list-style-type: none">⇒ The Chain tension is too tight. Check and re-tension the Chain.⇒ The Battery Pack is probably not at full charge. Charge the Battery Pack if necessary.
<i>The Motor doesn't have much power when you use the Chainsaw for the first time.</i>	<ul style="list-style-type: none">⇒ You will initially need to charge the Battery Pack before use. The Battery Pack will need to go through a Charge and Discharge cycle 2-3 times to achieve full charge potential.
<i>The Battery loses its charge quickly.</i>	<ul style="list-style-type: none">⇒ The Battery Pack was probably not at full charge prior to cutting. Charge the Battery Pack, if necessary.⇒ The Battery Pack may be getting old. After some time, you will need to replace the Battery Pack.
<i>The Chain is not cutting properly.</i>	<ul style="list-style-type: none">⇒ The Chain needs sharpening. Sharpen the Chain.⇒ The Chain is on the Bar backwards. Reverse the Chain on the Bar so the Cutting Teeth sharp edges move away from you on top of the Bar and toward you on the bottom of the Bar.

Chapter 6: Parts Lists, Schematic Diagrams and Warranty

Parts List – PRO-62V CHAINSAW

NOTE: Part numbers listed are available through DR Power Equipment.

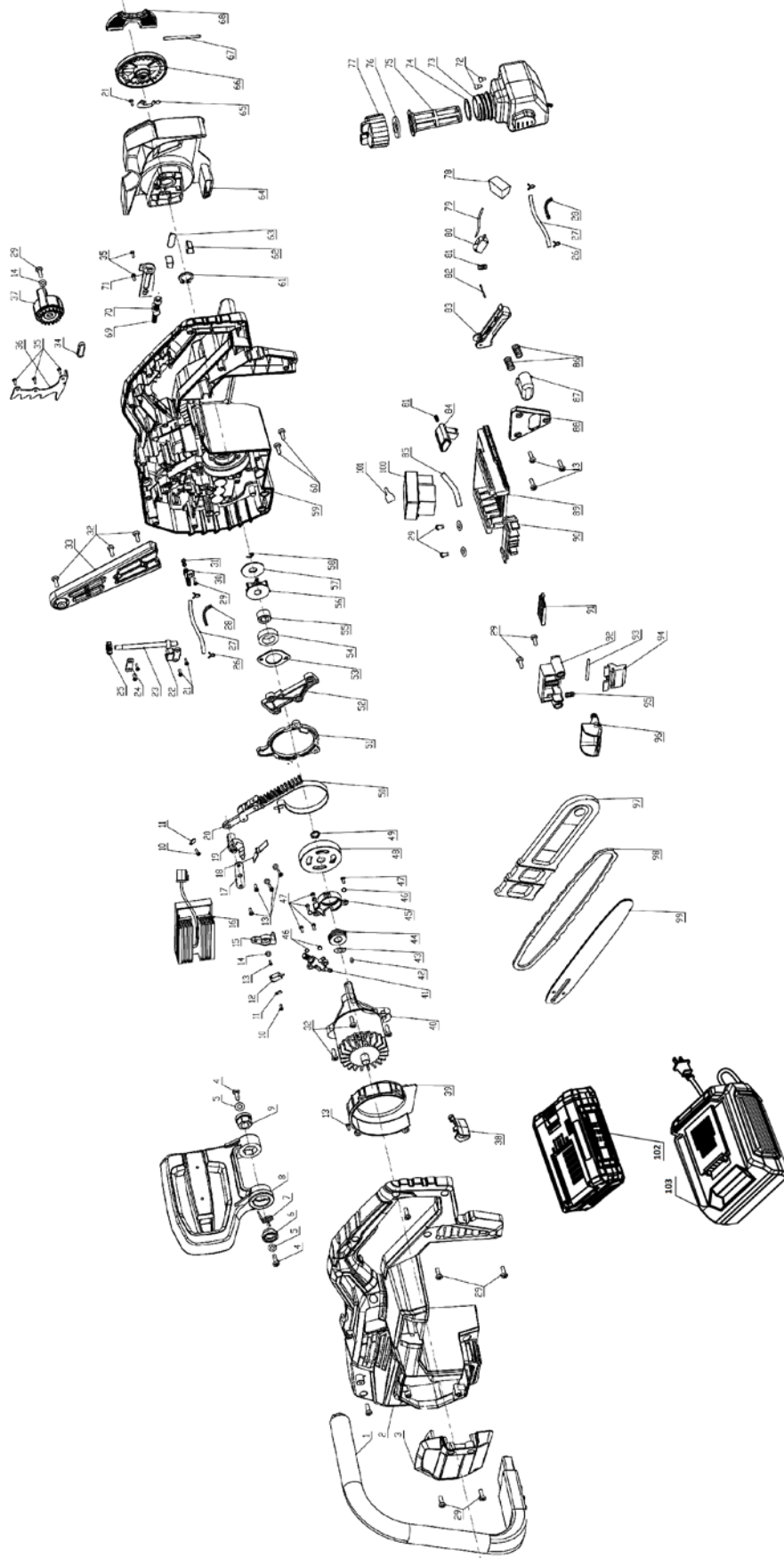
<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
1	41815	Auxiliary Handle	36	41850	Sprocket
2	41816	Left Shell	37	41851	Tensioning Knob
3	41817	Rear Cover	38	41852	Shell Cover Plate
4	41818	Hexalobular Socket Pan Head Screws	39	41853	Fan Shroud
5	41819	Flat Washer	40	41854	Brushless Motor
6	41820	Left Shaft Sleeve	41	41855	Oil Pump Set
7	41821	Torsional Spring	42	41856	Flat Key
8	41822	Front Damper	43	41857	Flat Washer
9	41823	Right Shaft Sleeve	44	41858	Oil Pump Worm
10	41824	Cross Recessed Pan Head Tapping Screws	45	41859	Oil Pump Top Cover
11	41825	Switch Pressing Plate	46	41860	Spring Washer
12	41826	Micro switch	47	41861	Cross Recessed Pan Head Screws
13	42101	Hexalobular Socket Pan Head Tapping Screws	48	41862	Brake Disc
14	41828	Flat Washer	49	41863	Circlip for Shaft
15	41829	Switch Connecting Rod	50	41864	Brake Compressed Spring
16	41830	Controller	51	41865	Brake Disc Top Cover
17	41831	Pressing Plate	52	41866	Brake Connecting Rod Cover
18	41832	Brake Elastic Piece	53	41867	609 Bearing Pressing Plate
19	41833	Transmission Block	54	41868	Deep Groove Ball Bearing
20	41834	Brake Set	55	41869	Motor Shaft Sleeve
21	41835	Hexalobular Socket Pan Head Tapping Screws	56	41870	Six-foot Sprocket
22	41836	Pressing Plate Cover	57	41871	Sprocket Pressing Plate
23	41837	Adjusting Screw Stem	58	41872	E-Shaped Ring-Shield
24	41838	Pressing Plate of Adjusting Screw Stem	59	41873	Right Shell
25	41839	Adjusting Gear	60	41874	Hexalobular Socket Pan Head Tapping Screws
26	41840	Clamp	61	41875	Circlip for Shaft
27	41841	Oil Tube	62	41876	Non-Slip Mat
28	41842	Oil Tube Spring	63	41877	Sealing Gasket
29	41800	Hexalobular Socket Pan Head Tapping Screws	64	41878	Side Cover
30	41844	Oil Tube Connector	65	41879	Gear-Locking Elastic Piece
31	41845	Seal Ring for Oil Tube Connector	66	41880	Lock Knob
32	41846	Hexalobular Socket Pan Head Tapping Screws	67	41881	Shaft
33	41847	Front Handle Supporting Base	68	41882	Lock Knob Wrench
34	41848	Seal Ring	69	41883	Tensioning Bolt
35	41849	Cross Recessed Countersunk Head Tapping Screws	70	41884	Tensioning Nut
			71	41885	Adjustable Pressing Plate
			72	41886	Breather Valve
			73	41887	Oiler

Parts List – PRO-62V CHAINSAW (Continued)

NOTE: Part numbers listed are available through DR Power Equipment.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
74	41888	Oiler Filter Seal Ring
75	41889	Oiler Strainer
76	41890	O-type Sealing Ring
77	41891	Oiler Cover
78	41892	Dust-Proof Sponge
79	41893	Inner Wire
80	42283	Micro switch
81	41895	Push Rod Spring
82	41896	Shaft
83	41897	Switch Trigger
84	41898	Self-Lock Button
85	42288	Corrugated Tube
86	41900	Battery Pop-up Spring
87	41901	Batter Pop-up Button
88	41902	Battery Pop-up Cover Plate
89	41903	Plug Bracket
90	41810	Plug Set
91	41905	Left Shell Baffle
92	41787	Battery Self-Lock Button Base
93	41785	Shaft
94	41908	Battery Self-Lock Button Clip
95	41909	Battery Lock Spring
96	41910	Battery Self-Lock Button
97	41911	16" Bar Cover
98	41912	16" Chain
99	41913	16" Bar
100	41914	Relay
101	41915	Wire Clip.
102	41421	62V 2.5AH Battery
103	41423	62V 2.5AH Battery Charger

Schematic – PRO-62V CHAINSAW



Notes:

DR[®] PRO-62V CHAINSAW



2-Year Limited Warranty

Terms and Conditions

The DR[®] PRO-62V CHAINSAW is warranted for two (2) years (except for the Battery, which carries a one (1) year warranty) against defects in materials or workmanship when put to ordinary and normal personal residential use.

For the purposes of all the above warranties, "ordinary and normal personal residential use" refers to non-commercial residential use and further excludes misuse, accidents or damage due to inadequate maintenance.

DR Power Equipment certifies that the DR[®] PRO-62V CHAINSAW is fit for ordinary purposes for which a product of this type is used. DR Power Equipment however, limits the implied warranties of merchantability and fitness in duration to a period of two (2) years in personal residential household use.

The 2-Year Limited Warranty on the DR[®] PRO-62V CHAINSAW starts on the date the machine ships from our factory. The 2-Year Limited Warranty is applicable only to the original owner.

The warranty holder is responsible for the performance of all the required maintenance as defined by the manufacturer's owner's manuals.

The warranty holder is responsible for replacement of normally wearing parts such as the Battery Pack, Chain, and Bar.

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.

DR Power Equipment shall not be liable under any circumstances for any **incidental or consequential damages or expenses** of any kind, including, but not limited to, cost of equipment rentals, loss of profit, or cost of hiring services to perform tasks normally performed by the DR[®] PRO-62V CHAINSAW.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

Daily Checklist for the DR® PRO-62V CHAINSAW

To help maintain your DR® PRO-62V CHAINSAW for optimum performance, we recommend you follow this checklist each time you use your DR® PRO-62V CHAINSAW.

WARNING

- Remove the Battery Pack and allow the Chainsaw to cool for at least five (5) minutes before servicing or storing.
- If you drop the Chainsaw, carefully inspect it for damage. If the Battery is damaged, Blade is bent, Safety Guard is broken, Housing cracked, or Handles broken or if you see any other condition that may affect the Chainsaw's operation, visit our website at www.DRpower.com or call **1-800-DR-OWNER (376-9637)** for assistance before putting it back into use.
- Do not insert the Battery Pack until you have completed all of the daily checks.

- [] BATTERY PACK: Make sure the Battery Pack has a full charge.
- [] INSPECT: Before inserting the Battery Pack, inspect for any visible damage to the Chain, Bar, Front Damper, or Chainsaw Housing. Inspect the Oil Port, Bar, and Vents. Clean them to remove any debris.
- [] CHAIN: Check the Chain tension and Chain Teeth for sharpness.
- [] CHECK: Check the Bar and Chain Oil level, fill with only new Chain Oil specifically formulated for chainsaws.
- [] NOISES: If you notice anything unusual, such as a vibration or odd sound, shut the Chainsaw OFF immediately. Remove the Battery Pack and check the Chainsaw for any damage.

If you cannot find the cause of the problem or are uncertain what to do, then have the Chainsaw inspected by a qualified repair shop before using it or visit our website at www.DRpower.com.

End of Season and Storage

WARNING

Do not store the Battery Pack near children or pets, with metal objects that could short circuit the terminals, or close to a source of heat, sparks, open flame or on the floor as it may be damp or subject to accidental flooding. In addition, never expose the Battery Pack to abnormal shaking or shocks. Regularly observe the external appearance of the Battery Pack. Never use a Battery Pack that shows cracks, changes shape, or obviously damaged.

- Clean/Wipe off the Chainsaw. Use only mild soap and a damp cloth to clean the Chainsaw. Never let any liquid get inside the Chainsaw Housing and NEVER immerse any part of the Chainsaw Housing into a liquid.
- Always, store the Chainsaw with a full Battery Pack charge.
- Do not store the Chainsaw near chemicals, such as fertilizers, organic or other solvents. Do not expose brake fluids, gasoline, petroleum-based products, penetrating oils, etc., to the plastic parts of the Chainsaw. These products are often highly corrosive and may cause permanent damage, weaken, or destroy the plastic to your Chainsaw.
- When not in use, your DR PRO 62V Chainsaw should be stored indoors in a dry and high or locked-up place, out of reach of children.
- For superior Battery Pack performance, always store the Battery Pack and Charger in a **DRY** environment with temperatures between 50°F (10°C) and +100°F (+37.8°C). Storing above +100 °F can cause Battery Pack leakage, rust, or degradation of the Battery Pack performance. The lower the storage temperature is within the specified range, the better. The Battery Pack will discharge more slowly at low temperatures. Charge the Battery Pack for 30-60 minutes, until fully charged, prior to storage and then every one to two months; and then again prior to the first seasons use. To prevent permanent damage to the Battery Pack, never store it in a discharged condition. Be sure to remove the Battery Pack from the Charger after charging. In addition, you can safely keep the Battery Pack in your tool when storing for the long term.



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