WARNING

Read and understand this manual and all instructions before operating the DR 11.5 CHIPPER SHREDDER.
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Conventions used in this manual

⚠️ DANGER
This indicates a hazardous situation, which, if not avoided, **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.

_instructional text_

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 ready 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

CONTACT US AT www.DRpower.com 3
Chapter 1: General Safety Rules

**WARNING**

Read this Safety & Operating Instructions Manual before you use the DR 11.5 CHIPPER SHREDDER. Become familiar with the operation, service, loading/unloading, and storage 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 11.5 CHIPPER SHREDDER 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 CHIPPER SHREDDER as you set up and before you operate the unit. Replace damaged or missing Safety and Information labels immediately.

---

**DANGER**

AVOID SERIOUS INJURY OR DEATH

- READ and understand the operator’s manual and all labels before starting.
- NEVER run the engine without the blowback guards and discharge guard in place.
- Rotating cutting blades. KEEP hands and feet out of the inlet hopper/chute and KEEP hands and feet away from the discharge area when the engine is running.
- ALWAYS shut engine off, remove spark plug, and wait for all moving parts to stop before servicing or to clear a clog.
- KEEP bystanders, children, and pets at least 100 feet from the work area.
- ALWAYS wear safety glasses and gloves and AVOID loose fitting clothing when operating this machine.

---

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- ALWAYS shut engine off, remove spark plug, and wait for all moving parts to stop before servicing or to clear a clog.
Protecting Yourself and Those Around You

**WARNING**

This is a high-powered machine, with moving parts operating with high energy. You must operate the machine safely. Unsafe operation can create a number of hazards for you, as well as anyone else in the nearby area. This machine can crush, grind, cut, and sever parts of your body if they enter the inlet or discharge area of your CHIPPER SHREDDER. Always take the following precautions when using this machine:

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
- Always wear protective goggles or safety glasses with side shields while using the CHIPPER SHREDDER to protect your eyes from possible thrown debris.
- Avoid wearing loose clothing or jewelry, which can catch on moving parts or the material fed into the CHIPPER SHREDDER.
- We recommend wearing gloves while using the CHIPPER SHREDDER. Be sure your gloves fit properly and do not have loose cuffs or drawstrings.
- Wear shoes with non-slip treads when using your CHIPPER SHREDDER. If you have safety shoes, we recommend wearing them. Do not use the machine while barefoot or wearing open sandals.
- Wear long pants while operating the CHIPPER SHREDDER.
- Use ear protectors or earplugs rated for at least 20 dba to protect your hearing.
- Keep bystanders at least 100 feet away from your work area. Stop the engine when another person or pet approaches.

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 machine and the chipping/shredding activity. *Never assume that children will remain where you last saw them.* Always follow these precautions:

- Keep children and pets at least 100 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 CHIPPER SHREDDER.

Safety with Gasoline - Powered Machines

**WARNING**

Gasoline is a highly flammable liquid. Gasoline also gives off flammable vapor that can be easily ignited and cause a fire or explosion. *Never overlook the hazards of gasoline.* Always follow these precautions:

- Never run the Engine in an enclosed area or without proper ventilation as the exhaust from the Engine contains carbon monoxide, which is an odorless, tasteless, and deadly poisonous gas.
- Store all fuel and oil in containers specifically designed and approved for this purpose. Keep away from heat, open flames, and out of the reach of children.
- Replace rubber Fuel Lines and Grommets when worn or damaged and after 5 years of use.
- Fill the Gasoline Tank outdoors with the Engine off and allow the Engine to cool completely first. Don't handle gasoline if you or anyone nearby is smoking or if you're near anything that could cause it to ignite or explode. Reinstall the Fuel Tank Cap and Fuel Container Cap securely.
- If you spill gasoline, do not attempt to start the Engine. Move the machine away from the area of the spill and avoid creating any source of ignition until the gas vapors have dissipated. Wipe up any spilled fuel to prevent a fire hazard and properly dispose of the waste.
**Safety with Gasoline - Powered Machines (Continued)**

**WARNING**
- To safely store, allow the Engine to cool completely before moving into any enclosure. Never store a machine that has gas in the tank, or a Fuel Container, near an open flame or spark such as a water heater, space heater, clothes dryer, or furnace.
- Never make adjustments or repairs with the Engine running. Shut down the Engine and wait 5 minutes for parts to cool. Disconnect the Spark Plug wire, keeping it away from the Spark Plug, to prevent accidental starting before making adjustments or repairs.
- Never tamper with the Engine’s Governor setting. The Governor controls the maximum safe operation speed and protects the Engine. Over-speeding the Engine is dangerous and will cause damage to the Engine and to the other moving parts of the machine. If required, see your authorized dealer for Engine governor adjustments.
- Keep combustible substances away from the Engine when it is hot.
- Never cover the machine while the Muffler is still hot.
- Do not operate the Engine with the Air Cleaner or the Carburetor Air Intake Cover removed. Removal of such parts could create a fire hazard. Do not use flammable solutions to clean the Air Filter.
- The Muffler and Engine become very hot and can cause a severe burn; do not touch.

**General Safety**

**WARNING**
Operating this CHIPPER SHREDDER safely is necessary to prevent or minimize the risk of death or serious injury. Unsafe operation can create a number of hazards for you. Always take the following precautions when operating this machine:
- Your CHIPPER SHREDDER is a powerful tool, not a plaything. Exercise extreme caution at all times. The machine is designed to chip wood and shred most organic materials. Do not use it for any other purpose.
- Thoroughly inspect the area in which you will be working and remove all foreign objects. Look for rope, wire, etc., and remove these objects before chipping/shredding. Inserting these objects into the CHIPPER SHREDDER Hopper could damage the machine and/or cause injury.
- Know how to stop the CHIPPER SHREDDER quickly; see “Stopping the Engine” in Chapter 3.
- Never operate your unit on a slippery, wet, muddy, or icy surface. Exercise caution to avoid slipping or falling.
- See manufacturer’s instructions for proper operation and installation of accessories. Only use accessories approved by DR Power Equipment.
- Never use the machine without ensuring that all guards and shields are in place.
- Never, under any conditions, remove, bend, cut, fit, weld, or otherwise alter standard parts on the CHIPPER SHREDDER. This includes all guards and shields. Modifications to your machine could cause personal injuries, property damage, and will void your warranty.
- Never use the machine with the Chipper Chute, Shredder Hopper, Blowback Guards, or Discharge Deflector removed.
- Never place any part of your body in the Chipper Chute, Shredder Hopper, discharge opening, or near any moving part while the machine is running. Keep the area of discharge clear of anything that will obstruct a clear discharge. Wind can also change discharge direction, so be aware. If it becomes necessary to push material into the Chipper Chute or Shredder Hopper, use a small diameter stick, NOT YOUR HANDS.
- Keep your face and body back from the Chipper Chute and Shredder Hopper to avoid accidental bounce back of any material.
- Do not allow an accumulation of processed material to build up in the discharge area as this will prevent proper discharge and could result in kickback.
- Allow only one person to operate the CHIPPER SHREDDER at any time.
- Always operate the machine from the Operator Zone (see Figure 7 on page 13). Never pass or stand on the discharge side of the machine when the Engine is running or the Flywheel is turning.
- If the machine starts making an unusual noise or vibration, Shut down the Engine and wait 5 minutes for parts to cool, disconnect the Spark Plug wire, keeping it away from the Spark Plug to prevent accidental starting before making adjustments or repairs. Vibration is generally a warning of trouble. Check for damaged parts and clean, repair, and/or replace as necessary.
- Never tamper with safety devices. Check their proper operation regularly.
**General Safety (continued)**

**WARNING**

- Never try to pick up, move, or transport the machine while the Engine is running or the Flywheel is turning.
- For safe loading up ramps carefully PULL the machine with the Shredder Hopper hand holds. For safe unloading down ramps, guide the machine from behind with the hand holds so it goes down the ramps and you follow.
- Before performing any maintenance or inspection procedure on the CHIPPER SHREDDER, shut down the Engine, wait 5 minutes for machine to cool, remove the Spark Plug Wire keeping it away from the Spark Plug.
- Never allow people who do not understand and/or have not read this Safety and Operating Instructions Manual to use the CHIPPER SHREDDER. Allow only responsible individuals who are familiar with these rules of safe operation to use your machine.
- Never overload or attempt to Chip or Shred material beyond the manufacturer’s recommendation. Personal injury or damage to the machine could result.
- While using the CHIPPER SHREDDER, don't hurry or take things for granted. When in doubt about the equipment or your surroundings, stop the machine and take the time to look things over.
- Never operate the machine when under the influence of alcohol, drugs, or medication.
- Use the machine only in daylight.
- Stay alert for hidden hazards or traffic.
- Keep all nuts and bolts tight and keep the equipment in good operating condition.

**California Proposition 65**

**WARNING**

California Proposition 65:

- Engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.
- This product contains or emits chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm.

**A Note to All Users**

Under California law, and the laws of some other states, you are not permitted to operate an internal combustion engine using hydrocarbon fuels without an Engine Spark Arrester. This also applies to operation on US Forest Lands. All DR Chippers w/Shredder shipped to California, New Mexico, and Washington State are provided with Spark Arresters. Failure of the owner or operator to maintain this equipment in compliance with state regulations is a misdemeanor under California law and may be in violation of other state and/or federal regulations. Contact your State Park Association or the appropriate state organization for specific information in your area.

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 11.5 CHIPPER SHREDDER in a safe manner. Contact us at www.DRpower.com or call Toll Free: 1-800-DR-OWNER (376-9637) for assistance.
Chapter 2: Setting Up The DR 11.5 CHIPPER SHREDDER

It may be helpful to familiarize yourself with the controls and features of your DR 11.5 CHIPPER SHREDDER 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 11.5 CHIPPER SHREDDER Controls and Features**

- Shredder Hopper
- Chipper Chute
- Chipper Knife Access Plate (Located on Chipper Side Plate)
- Belt Cover
- Oil Fill
- Fuel Fill
- 11.5 FT-LBS Torque Briggs & Stratton Engine
- Throttle
- Fuel Shut-Off Valve
- Starter Handle
- Oil Drain (Front of Engine Base)
- Air Filter
- Battery
- Key Switch
- Electric Start Model
- Battery
- Pneumatic Tires
- Hammer Shaft Access Plate
- Muffler
- Discharge Deflector
- Choke Control Lever
- Oil Drain (Front of Engine Base)

*Figure 2*
**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>11.5 Chipper Shredder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine</td>
<td>Briggs &amp; Stratton (See engine manual.)</td>
</tr>
<tr>
<td>Gross Torque</td>
<td>11.50 Ft-Lbs</td>
</tr>
<tr>
<td>Starting</td>
<td>Manual or Electric w/ Recoil Backup</td>
</tr>
<tr>
<td>RPM</td>
<td>3500</td>
</tr>
<tr>
<td>Chipping Capacity</td>
<td>4” Max Diameter Branches</td>
</tr>
<tr>
<td>Shredding Capacity</td>
<td>3/4” Max Diameter Woody Material</td>
</tr>
<tr>
<td>Chipper Knife</td>
<td>Hardened Tool Steel, 4.75” x 1.25” x .28”</td>
</tr>
<tr>
<td>Shredding Hammers</td>
<td>12 Hardened Steel, 4 Flat and 8 J</td>
</tr>
<tr>
<td>Discharge Screen</td>
<td>1” Diameter Holes</td>
</tr>
<tr>
<td>Drive</td>
<td>Centrifugal Clutch</td>
</tr>
<tr>
<td>Belt</td>
<td>V-Belt, B27</td>
</tr>
<tr>
<td>Wheels</td>
<td>9/3.5 x 4, Pneumatic, 4 Ply</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>171 Lbs M/S, 186 Lbs E/S</td>
</tr>
<tr>
<td>Dimensions</td>
<td>34.5” L x 28.8” W x 46” H</td>
</tr>
<tr>
<td>Pin Hitch Towing</td>
<td>Optional Accessory</td>
</tr>
</tbody>
</table>
Assembly

Parts Supplied in Shipping Box:
- 11.5 CHIPPER SHREDDER Power Unit
- Shredder Hopper
- Product Pack:
  --Safety and Operating Instructions Manual
  --Engine Manual
  --Hardware (listed below)

Hardware in Product Package:

<table>
<thead>
<tr>
<th>Part#</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>38640</td>
<td>Bolt, HCS, 5/16-18 X 6&quot;, GR5, ZP</td>
<td>2</td>
</tr>
<tr>
<td>11076</td>
<td>Nut, Nylon Lock, 5/16-18, ZP</td>
<td>2</td>
</tr>
</tbody>
</table>

Tools needed:
- Two 1/2" Wrenches

Attaching the Shredder Hopper

1. Position the Shredder Hopper onto the Power Unit with the hand hold cutouts facing the engine side (Figure 3).
2. Secure the Shredder Hopper with the two 5/16-18 X 6" Bolts and Locknuts from the Product Package using two 1/2" Wrenches.

Adding Oil and Gasoline

**NOTICE**

- You MUST add oil before starting the Engine. This machine is shipped without oil. Traces of oil may be in the reservoir from factory testing, but you MUST add oil before starting the Engine. Fill the reservoir slowly, checking the level frequently to avoid overfilling.
- To get an accurate reading when checking the oil level:
  - The Engine MUST be level.
  - Refer to the Engine Manual for detailed information before performing the following procedures.

<table>
<thead>
<tr>
<th>Engine Oil</th>
<th>SAE 30: above 50 degrees F; 10w-30: 10-90 degrees F; 5w-30: 30 degrees F or below</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>Unleaded gasoline (See Engine Manual) <strong>Note:</strong> With no more than 10% Ethanol</td>
</tr>
</tbody>
</table>
**Note:** Use only the recommended high detergent Engine oil. Other types of oil could cause problems operating your machine. Please refer to your Engine Owner’s Manual for more detailed oil information.

1. Position the machine so the Engine is level. Remove the Oil Fill/Dipstick (Figure 4).
2. Initially add half of the oil recommended by the Engine Manufacturer. Wait one minute for the oil to settle.
3. Check the Oil level on the Dipstick as described in the Engine Manual.
4. Continue adding a few ounces of oil at a time, rechecking the level until the oil reaches the full level as indicated in the Engine Manual. Be careful not to overfill.
5. Replace the Oil Fill/Dipstick when full.
6. Remove the Fuel Fill Cap and fill the Fuel Tank with fresh, unleaded gas (with a minimum of 85 Octane) to approximately 1" to 1-1/2" below the top of the Fill Neck to allow for Fuel expansion. Be careful not to overfill and reinstall the Fuel Fill Cap before starting the Engine. See your Engine Owner’s Manual for more detailed information.

**Note:** To refill the Fuel Tank, turn the Engine OFF, and let the Engine cool at least five minutes before removing the Fuel Fill Cap.

---

**Check the Tire Pressure**

**Tools Needed:**
- Tire Pressure Gauge
- Air Compressor or Hand Pump

1. Remove the Valve Stem Protective Cap (Figure 5) and check the Tire pressure with a Tire Pressure Gauge.
2. Check the manufacturers recommended pressure that is stamped on the side of the Tire.

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**WARNING**

Do not over inflate the Tires. Inflate to the manufacturers recommended pressure.

3. If the pressure is too low, add air through the Valve Stem with an Air Compressor or Hand Pump.
4. Replace the Valve Stem Protective Cap when finished.

---
Connecting the Battery Wire (Electric Start Models)

We ship all Electric Start DR CHIPPER SHREDDERS with the green negative terminal Battery Wire disconnected. This prevents the Battery from discharging during shipment. Before using your DR CHIPPER SHREDDER, you must connect the Battery Wire.

1. Remove the Protective Cap from the Negative Battery Terminal if one is installed (Figure 6).
2. Insert the Negative Wire Connector onto the Negative Terminal of the Battery.

Figure 6
Chapter 3: Operating the DR 11.5 CHIPPER SHREDDER

This chapter covers the procedures for starting and stopping your new DR 11.5 CHIPPER SHREDDER and discusses basic operation features. It may be helpful to better familiarize yourself with the features of your CHIPPER SHREDDER by reviewing Figure 2 in Chapter 2 before beginning the steps outlined in this chapter.

**Before You Begin**

- Visually check the Chipper Knife for damage each time you use the machine.
- ALWAYS operate the DR 11.5 CHIPPER SHREDDER from the Operator Zones (Figure 7).
- When viewed from the Chipper Chute side the Flywheel turns in a clockwise direction.
- ALWAYS stop the Engine when leaving the Operating Zone or when moving the machine.

**Starting the Engine (Manual Start)**

*Note: See next page for electric start.*

1. Check the Oil and Fuel level every time you use the DR 11.5 CHIPPER SHREDDER.
2. Check the Shredder Hopper, Chipper Chute, and Discharge Guard and remove any debris buildup from the machine as described on page 16.
3. Rotate the Fuel Shut-Off Valve counter clockwise to its OPEN position (Figure 8).
4. Move the Choke Control Lever to the right to the Choke position (leave in the Run position to the left if the Engine is already warm).
5. Move the Throttle Control Lever to about half way between Slow (turtle) and Fast (rabbit) Position.
6. Grasp the Recoil Starter Handle and slowly pull until you feel resistance, then pull the cord rapidly to start the Engine. One or two pulls will usually start the Engine.
7. As the Engine warms up, slowly adjust the Choke to the left towards the Run position. Wait until the Engine runs smoothly before each Choke adjustment.
8. When the Engine is warmed up and running smoothly, ensure that the Choke is fully to the left and the Throttle Control Lever is fully to the Fast (rabbit) Position for Chipping and Shredding.

*Note: The Throttle should always be fully to the right when Chipping/Shredding.*
Starting the Engine (Electric Start)

1. Check the Oil and Fuel level every time you use the DR 11.5 CHIPPER SHREDDER.
2. Check Inlet Hoppers and Discharge Chute and remove any debris buildup from the machine by following the instructions on page 16.
3. Rotate the Fuel Shut-Off Valve counter clockwise to its OPEN position (Figure 9).
4. Position the Choke Control Lever to the right so it is in the Choke position (Leave it in the RUN position to the left is the Engine is already warm).
5. Move the Throttle Control Leaver to about half way between Slow (turtle) and Fast (rabbit) Position.
6. Turn the Key to the START position until the Engine starts, then release. The Key will snap back to the RUN position and the Engine will continue to run.

*Note:* Electric Start Engines can also be started with the Recoil Starter Handle as described in the “Manual Start” section.

7. As the Engine warms up, slowly move the Choke to the left. Wait until the Engine runs smoothly before each Choke adjustment.
8. When the Engine is warmed up and running smoothly, ensure that the Choke is fully to the left and the Throttle Control Lever is fully to the Fast (rabbit) Position for Chipping and Shredding.

*Note:* The Throttle should always be fully to the right when Chipping/Shredding.

Stopping the Engine

Move the Throttle Control Lever all the way to the left past the SLOW (Turtle) position to the “STOP” position (manual start models) or turn the Key to the off position (electric start models) (Figure 9).

*Note:* Close the Fuel Shut-Off Valve when transporting or storing the DR 11.5 CHIPPER SHREDDER.
Using the Chipper Chute

The Chipper Chute is designed to chip thicker materials that the Shredder Hopper isn’t designed to handle. The revolving Chipper Knife mounted on a Flywheel turns branches fed into the Chute into “chips”. The Chipper can chip twigs and branches ranging in size from 1/2” to 4” in diameter. Cut your materials into manageable lengths before feeding them into the Chipper Chute.

- Hold onto and slowly feed material into the Chipper Chute while paying attention to the engine speed. Do not force material or allow material to be pulled too quickly into the Chipper.
- Larger diameter hardwood or extremely hard knots may not process as well as other materials. Discard larger diameter or harder branch stubs before they become too short to control their feed rate.
- Overloading the Chipper Chute will cause the Engine speed to decrease. If the Engine bogs down, stop feeding material into the Chipper Chute and wait until the Engine returns to full speed before continuing.
- Your DR 11.5 CHIPPER SHREDDER can process dry or green material. Green material will process quicker and easier than dry material. Soft wood processes easier than hard wood.
- If the machine does not chip well, the Chipper Knife may need sharpening or may need to be replaced.
- It is best to trim off any side twigs from the main branch that you are chipping.
- When chipping branches, sometimes a tail will remain at the end of a branch. To avoid this, rotate the branch while feeding it into the Chipper Chute. Rotating the branch as you feed it into the machine will improve chipping performance.
- Use caution with small diameter green saplings and branches less than 1” in diameter. Chip these grouped or bundled together to provide support for each other. If the material is 1” or larger, feed only one at a time into the Chipper Chute.
- NEVER allow processed material to build up within 3” of the Discharge opening. Move the DR 11.5 CHIPPER SHREDDER or the pile as needed. Failure to do so could result in unnecessary jamming of the machine.
- To move a pile of processed material, first shut off the Engine, and use a spade, rake, or long handle tool; NEVER use your hands or feet!
- Make sure the DR 11.5 CHIPPER SHREDDER finishes processing and discharging material before shutting the Engine off.

Using the Shredder Hopper

The Shredder Hopper can process hard wood branches up to 3/4” in diameter and softer organic material up to 4-1/2” in diameter. You can shred most organic materials. A Guard (flap) is attached to the Hopper. You must push material past this flap (using a branch if necessary) in order to enter the main Shredding Chamber where revolving steel Hammers do the shredding.

**WARNING**

The Hammers within the Shredding Chamber can tug suddenly at material fed into the Shredder Hopper. Wear Gloves and do not hold on tightly to branches and vines and do not feed material straight down into the Hopper with your arm pointing downward toward the opening. Instead, keep your arms parallel to the ground and several inches above the top edge of the Hopper.

- Due to the wide variety of materials that you can shred and their different physical characteristics, only feed limited quantities of any material into the Shredder Hopper at first. Increase the amount and length of material if you find that the material is processing without any difficulty. Your judgment and operator experience is very important.
- Be sure not to overload the machine by feeding too much material into the Hopper at one time. If you hear the speed of the Engine decreasing, stop feeding material into the machine at once. Do not resume feeding the machine until the Engine has returned to full speed.
- You can feed several small branches into the Shredder Hopper at once providing their combined diameter is less than 3/4”. Cut branches so they are shorter than 3 feet long to make them more manageable.
- Allow green materials to dry before processing or alternate processing and discharging green/wet materials with dry materials to avoid clogging. If wet materials begin to clog, shred a stick to clear the material through. The shredding capacity is 3/4” hard woody material. For clearing a clog, you can intermittently shred a larger stick up to 1” diameter.
Removing a Clog

**WARNING**

Before performing any maintenance procedure or inspection, stop the Engine, wait five minutes to allow all parts to cool. Disconnect the Spark Plug Wire, keeping it away from the Spark Plug.

1. Remove any material left in the Chipper Chute and Shredder Hopper with a wooden stick.
2. Remove the top Screen Bolt and Locknut using two 1/2" Wrenches (Figure 10).
3. Rotate the Screen down to gain access to the cutting chamber (Figure 11).
   **Note:** If the Screen will not rotate down freely, the nearby bolts can be loosened slightly.
4. Clear all clogged material from the machine.
5. Rotate the Screen back into the operating position and reinstall the hardware. **Note:** Make sure the bolt goes through the screen rather than just behind it.
6. Start the machine and allow any remaining material to discharge.
7. If you have been shredding wet/green materials the clog may be near the shredder housing inlet. Shred a wood stick of up to 1" diameter to clear the clogged wet material.
8. If the clog does not clear repeat the above process.
9. Be certain the cutting chamber is clear before trying to process more material.

---

### Materials Best Suited for Shredding

<table>
<thead>
<tr>
<th>Leaves</th>
<th>Flowers</th>
<th>Corn Stalks</th>
<th>Roots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>Palm frond tops</td>
<td>Grass clippings</td>
<td>Garden debris</td>
</tr>
<tr>
<td>Potato vines</td>
<td>Straw and Hay</td>
<td>Hedge clippings</td>
<td>Tomato vines</td>
</tr>
<tr>
<td>Manure</td>
<td>Kitchen Waste</td>
<td>Small branches</td>
<td></td>
</tr>
</tbody>
</table>
Chapter 4: Maintaining The DR 11.5 CHIPPER SHREDDER

Regular maintenance is the way to ensure the best performance and long life of your machine. Please refer to this manual and the Engine Manufacturer’s Owner’s Manual for maintenance procedures. Service intervals listed in the checklist below supersede those listed in the Engine Manufacturer’s Owner’s Manual.

**WARNING**

Before performing any maintenance procedure or inspection, stop the Engine, wait five minutes to allow all parts to cool. Disconnect the Spark Plug Wire, keeping it away from the Spark Plug.

Regular Maintenance Checklist

<table>
<thead>
<tr>
<th>PROCEDURE</th>
<th>BEFORE EACH USE</th>
<th>EVERY 25 HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check Engine Oil Level</td>
<td></td>
<td>▲</td>
</tr>
<tr>
<td>Check General Equipment Condition</td>
<td>▲</td>
<td></td>
</tr>
<tr>
<td>Clean Engine Exterior &amp; Cooling Fins</td>
<td>▲</td>
<td></td>
</tr>
<tr>
<td>Inspect Knife for damage and sharpness</td>
<td>▲</td>
<td></td>
</tr>
<tr>
<td>Check Knife Attachment Screws</td>
<td></td>
<td>▲</td>
</tr>
<tr>
<td>Check Hammers/Spacers for Wear, Reverse or Replace as Needed</td>
<td>▲</td>
<td></td>
</tr>
<tr>
<td>Check Air Filter, Clean or Replace as Needed</td>
<td></td>
<td>▲</td>
</tr>
<tr>
<td>Check Tire Pressure</td>
<td></td>
<td>▲</td>
</tr>
<tr>
<td>Change Engine Oil</td>
<td>1st time 5 hrs</td>
<td>▲</td>
</tr>
<tr>
<td>Inspect Spark Plug, Replace as Needed</td>
<td></td>
<td>▲</td>
</tr>
</tbody>
</table>

Removing and Replacing the Engine Oil

Tools and Supplies Needed:
- 1/4" Allen Wrench
- Rags and approved Container (for waste oil)
- Engine Oil (see your Engine Manual for Oil specifications)

**Note:** Drain the oil when the Engine is warm; warm oil drains quickly and completely.

1. Set the machine on a level surface, place an approved Waste Oil Container under the front of the unit between the wheels.
2. Remove the Oil Drain Plug at the front of the Engine using a 1/4" Allen Wrench allowing the used oil to drain completely through the drain hole and down into the Container (*Figure 12*).
3. Replace the Oil Drain Plug and refill with new oil through the Oil Fill/Dipstick (*Figure 13*). See “Adding Oil and Gasoline” on page 10.

**Note:** Be sure to use environmentally safe disposal procedures in the disposing of the used oil.
**Greasing the Wheel Bearings**

**Tools and Supplies Needed:**
- Grease Gun
- Lithium Grease
- Clean Cloth

1. Wipe all dirt, etc., from the Grease Fittings on both Wheels with a clean cloth (Figure 14).
2. Apply no more than three pumps of quality general-purpose lithium grease with a hand-pumped Grease Gun to the Grease Fitting on each Wheel.

**Replacing the Belt**

**Tools and Supplies Needed:**
- Two 1/2" Wrenches

1. Remove the two Bolts and Washers securing the Belt Cover using a 1/2" Wrench (Figure 15). Remove the Belt Cover.
2. Loosen the two left side Engine Mount Locknuts using a 1/2" Wrench (Figure 16).
3. Loosen the two right side Engine Mount Bolts and Locknuts using two 1/2" Wrenches (Figure 17).
4. Loosen the Tension Bolt using a 1/2" Wrench (Figure 16) until the Engine can be moved enough to remove the Belt from the Clutch and Pulley.
5. Install the new Belt and adjust the Tension Bolt until the Belt only deflects 1/2" when approximately 3 lbs of pressure is applied (Figure 18).
6. When the Belt is adjusted properly, tighten all four Engine Bolts, then retighten the Tension Bolt by 1/4 turn.
7. Install the Belt Cover and secure with the two Bolts and Washers.

**Note:** Ensure the Belt Cover Tab is resting on top of the round Bolt Head and not below it before securing the Cover (Figure 19).
Replacing the Chipper Knife

The DR 11.5 CHIPPER SHREDDER is shipped with a sharp Chipper Knife and depending upon material being chipped we’ve found it can remain acceptably sharp for 40 plus hours. When you notice diminished feeding, it is time to replace the knife. You may also choose to have the knife sharpened instead as described on the next page.

Tools and Supplies needed:
- 1/2” Wrench
- 3/16” Allen Wrench
- Awl
- Gloves

1. Remove the top Screen Bolt and Locknut using two 1/2” Wrenches (Figure 20).
2. Rotate the Screen down to gain access to the cutting chamber (Figure 21).
3. Loosen the Locknuts on the Access Plate and slide it to the side and remove (Figure 22).
4. Rotate the Flywheel until the Knife is centered in the opening (Figure 23).
5. Clean out the heads of the Allen Screws with an awl or sharp tool.
6. Insert a 3/16” Allen wrench into the head of the screws and a 1/2” Wrench on the Locknuts to remove the three Locknuts and Screws.
7. Carefully remove the dull or damaged Knife and visually inspect the Knife mounting area and be sure they are clean. Metal burrs may need filing so that the replacement Knife will be able to mount flush against the Flywheel.
8. Install a new or sharpened Knife and finger tighten the Allen Screws and Locknuts.

**Note:** New Allen Screws and Locknuts are provided with each new Chipper Knife.

9. Using a 3/16” Allen Wrench on the Screw and a 1/2” Wrench on the Locknut, tighten the hardware to secure the Chipper Knife.
10. Double-check all three Screws for tightness one more time.
11. Reinstall the Access Plate.
12. Rotate the Screen back into the operating position and reinstall the hardware. **Note:** Make sure the bolt goes through the screen rather than just behind it.
**Knife Sharpening**

- You should never attempt to sharpen the Chipper Knife freehand; take the Knife to a machine shop for proper sharpening.
- It is extremely important to consistently maintain the 45-degree angle for proper performance.
- Excessive heat generated during the sharpening process will damage Knives and weaken the metal.
- How many times a Knife can be sharpened is determined by how much material needs to be taken off to sharpen or to compensate for dents or gouges.
- A new Chipper Knife has a 5/16" measurement between the short side bevel edge and the Knife mounting holes (Figure 24).

![Figure 24](image1)

- The knife should never be sharpened to the extent that more than 3/32" is taken off this measurement.
- Once this measurement is below 7/32" (Figure 25), or if you are unable to remove dents or gouges with these guidelines, replace the Knife.

![Figure 25](image2)
Maintaining the Shredder Hammers

When the hardened steel Hammers become dull or round on the cutting edge, they should be reversed or replaced.

Note: The Flat Hammers have four cutting edges and the J Hammers have two cutting edges that may be used before replacement is necessary. To reverse the Hammers, proceed as follows:

Tools and Part Required

- 1/2" Wrench
- 3/8" Wrench
- 5/32" Allen Wrench

1. Remove the top Screen Bolt and Locknut using two 1/2" Wrenches (Figure 26).

2. Rotate the Screen down to gain access to the Cutting Chamber (Figure 27).

3. Loosen the Bolt on the Access Plate using a 1/2" Wrench, rotate the Plate out of the way and then tighten the Bolt to hold it in place (Figure 28).

Note: There are 2 J Hammers and 1 Flat Hammer on each Hammer Shaft. J Hammers are oriented in the opposite direction of those on adjacent Hammer Shafts (Figure 29).

4. Align one of the Hammer Shafts with the Access Door opening (Figure 30). Carefully note the orientation of each Hammer on the Hammer Shaft you are working on.

5. Use a 5/32" Allen Wrench and a 3/8" Wrench to remove the Screw and Locknut from the Spacer.

6. Remove the Hammer Shaft, Spacers, and Hammers.
7. Reinstall the parts, but with the orientation of the Hammers flipped to a clean cutting edge. If your Hammer Shaft assembly looked like Figure 30 before then it should look like Figure 31 after. Or vice versa.

8. Reinstall the Screw and locknut through the Spacer and the Hammer Shaft. Make sure the Locknut is fully tightened.

9. Repeat steps 4 through 9 for the other three sets of Hammers. Confirm that Hammer orientations alternate as shown in Figure 29. Correct them if needed.

10. Reposition and secure the Access Plate.

11. Rotate the Screen back into the operating position and reinstall the hardware. **Note:** Make sure the bolt goes through the screen rather than just behind it.

### Removing and Replacing the Clutch

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 (electric start machines). The Clutch on this machine is permanently lubricated and does not require oil or grease. The Clutch is a normal wear item. If, after long periods of use, the Drum wobbles excessively, or if you notice decreased performance of the Clutch, replace it.

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 CHIPPER SHREDDER** Engine at less than full RPM.

**Tools and Supplies Needed:**
- Two 1/2” Wrenches
- 9/16” Wrench
- Dead Blow Hammer
- Anti-seize compound

1. Remove the Belt as described in the “Replacing The Belt” section in this Chapter.

2. Place a 9/16” Wrench onto the Clutch Bolt and rotate the Wrench counterclockwise until you feel some resistance (**Figure 32**).

3. Hit the Wrench sharply with a Dead Blow Hammer to start the Bolt turning on the Engine Shaft.

4. Remove the Bolt, Flat Washer, Clutch and Key from the Engine Shaft.

5. Clean the Engine Crankshaft and remove any burrs, then apply anti-seize compound to the Crankshaft.

6. Install the Key in the Keyway of the Engine Crankshaft, align the Key with the slot in the new Clutch Hub, and then slide the new Clutch Assembly onto the Crankshaft followed by the Washer and Clutch Bolt. Tighten the Bolt securely using the same method as removal.

7. Reinstall the Drive Belt and set the Belt tension as described in the “Replacing The Belt” section.

8. Reinstall the Belt Cover.
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**

Shut down the Engine and wait 5 minutes for all parts to cool. Remove the Spark Plug Wire, keeping it away from the Spark Plug to prevent accidental starting before performing any maintenance procedure or inspection on the CHIPPER SHREDDER.

**Troubleshooting Table**

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
</tr>
</thead>
</table>
| **Engine Recoil will not pull out or is difficult to pull.** | ⇒ Remove un-processed material from the Chipper Chute and Shredder Hopper and remove any built-up debris in the Discharge opening.  
⇒ There may be an oil compression lock in the cylinder. Take out the Spark Plug; hold a rag over the Spark Plug hole and pull the Recoil Cord several times to blow out any oil in the Cylinder. Wipe off the Spark Plug and reinstall it.  
⇒ Check the Engine oil level; the Engine may be seized.  
⇒ The Recoil may be broken or jammed. Visit our website at www.DRpower.com. |
| **The Engine will not start.**      | ⇒ Check the oil and gas level.  
⇒ Make sure that the Fuel Shut-Off is in the ON position.  
⇒ Check that the Spark Plug Wire is attached.  
⇒ The Air Filter may be dirty; change it following the procedure in the Engine Owner’s Manual.  
⇒ The gas may be old; change it if necessary. Use a fuel stabilizer if you keep gas longer than one month.  
⇒ Check the Throttle and Choke settings, adjustment and travel.  
⇒ The Spark Plug may be dirty or cracked; change it if necessary. If it’s oily, leave it out, hold a rag over the Plug Hole and pull the Recoil Cord several times to blow out any oil in the Cylinder, then wipe off the Plug and reinsert it. Never use a cracked Spark Plug as serious damage could result.  
⇒ If your Engine still won’t start, visit our website at www.DRpower.com. |
| **The Engine lacks power or is not running smoothly.** | ⇒ Make sure the Choke Lever is all the way to the RUN position (right).  
⇒ Make sure that the Throttle Lever is all the way to the right (FAST- Rabbit).  
⇒ The Air Filter may be dirty; change it following the procedure in the Engine Owner’s Manual.  
⇒ The Spark Plug may be dirty or cracked; change it if necessary. If it’s oily, leave it out, hold a rag over the Plug Hole and pull the Recoil Cord several times to blow out any oil in the Cylinder, then wipe off the Plug and reinsert it. Never use a cracked Spark Plug as serious damage could result.  
⇒ The gas may be old; change it if necessary. Use a fuel stabilizer if you keep gas longer than one month.  
⇒ The Engine oil may be dirty. Change it if necessary.  
⇒ Check that the Cooling Fins are clean and free of debris. Clean as needed.  
⇒ If your Engine still lacks power, visit our website at www.DRpower.com. |
**Troubleshooting Table (Continued)**

### WARNING
Shut down the Engine and wait 5 minutes for all parts to cool. Remove the Spark Plug Wire, keeping it away from the Spark Plug to prevent accidental starting before performing any maintenance procedure or inspection on the CHIPPER SHREDDER.

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine smokes.</strong></td>
<td>⇒ Check the oil level and adjust as needed.</td>
</tr>
<tr>
<td><em>(Please refer to the Engine Owner’s Manual for engine-specific procedures.)</em></td>
<td>⇒ You may be operating the machine on too great an incline. The machine should be level.</td>
</tr>
<tr>
<td></td>
<td>⇒ The Air Filter may be dirty; change it following the procedure in the Engine Owner’s Manual.</td>
</tr>
<tr>
<td></td>
<td>⇒ You may be using the wrong oil - too light for the temperature. Refer to your Engine Owner’s Manual for detailed information.</td>
</tr>
<tr>
<td></td>
<td>⇒ Check that the Cooling Fins are clean and free of debris. Clean as needed.</td>
</tr>
<tr>
<td></td>
<td>⇒ If your Engine still smokes, visit our website at <a href="http://www.DRpower.com">www.DRpower.com</a>.</td>
</tr>
<tr>
<td><strong>Shredding and chipping action seems too slow.</strong></td>
<td>⇒ Check for a dull or damaged Knife; sharpen or replace the Knife.</td>
</tr>
<tr>
<td></td>
<td>⇒ Make sure that the Throttle Lever is all the way to the right (FAST- Rabbit).</td>
</tr>
<tr>
<td><strong>The machine has excessive vibration.</strong></td>
<td>⇒ Check for a dull or damaged Knife; sharpen or replace the Knife.</td>
</tr>
<tr>
<td></td>
<td>⇒ The Hammermill is out of balance. Check for any missing or broken Hammers or Spacers; replace if necessary.</td>
</tr>
<tr>
<td></td>
<td>⇒ The Knife may not be seated properly. Loosen the Knife mounting screws, reset the Knife, and tighten the screws.</td>
</tr>
<tr>
<td></td>
<td>⇒ If your machine still exhibits excessive vibration, visit our website at <a href="http://www.DRpower.com">www.DRpower.com</a>.</td>
</tr>
<tr>
<td><strong>When chipping, the branch seems to vibrate excessively and “hammers” my hands.</strong></td>
<td>⇒ The Knife is dull; sharpen or replace it.</td>
</tr>
<tr>
<td><strong>Debris builds up in the cutting chamber</strong></td>
<td>⇒ Alternate shredding dry material with wet/green material.</td>
</tr>
<tr>
<td></td>
<td>⇒ Shred a wood stick of up to 1&quot; diameter to clean out the build-up.</td>
</tr>
<tr>
<td><strong>Belt burns or Clutch overheats.</strong></td>
<td>⇒ Immediately stop the Engine and remove the Spark Plug Wire.</td>
</tr>
<tr>
<td></td>
<td>⇒ Turn the Flywheel/Hammer assembly with a wooden stick to be sure it turns freely.</td>
</tr>
<tr>
<td></td>
<td>⇒ Remove any built-up debris from the Chipper/Shredder Hopper Inlet(s) and Discharge Chute.</td>
</tr>
<tr>
<td></td>
<td>⇒ Check the Drive Belt tension.</td>
</tr>
</tbody>
</table>
# Parts List – Hopper, Chute and Discharge

*Note: Part numbers listed are available through DR Power Equipment.*

<table>
<thead>
<tr>
<th>Ref#</th>
<th>Part#</th>
<th>Description</th>
<th>Ref#</th>
<th>Part#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>11076</td>
<td>Nut, Nylon Lock, 5/16-18, ZP</td>
<td>9</td>
<td>39282</td>
<td>Label, Danger, Safety</td>
</tr>
<tr>
<td>2</td>
<td>39283</td>
<td>Label, Danger, Discharge</td>
<td>10</td>
<td>34141</td>
<td>Label, DR Logo, 5.75” Silver</td>
</tr>
<tr>
<td>3</td>
<td>38640</td>
<td>Bolt, HCS, 5/16-18 X 6”, GR5, ZP</td>
<td>11</td>
<td>38676</td>
<td>Hopper w/Labels, Shredder</td>
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<tr>
<td>4</td>
<td>36521</td>
<td>Bolt, Hex Flange, 1/4-20 X 5/8”, GR5, ZP</td>
<td>12</td>
<td>36525</td>
<td>Guard, Shredder</td>
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<tr>
<td>5</td>
<td>33331</td>
<td>Nut, Nylon Lock, Flanged, 1/4-20</td>
<td>13</td>
<td>36544</td>
<td>Support, Guard, Hopper</td>
</tr>
<tr>
<td>6</td>
<td>38671</td>
<td>Chute w/Labels, Chipper</td>
<td>14</td>
<td>36526</td>
<td>Support, Hopper Guard</td>
</tr>
<tr>
<td>7</td>
<td>38648</td>
<td>Guard, Chipper</td>
<td>15</td>
<td>36515</td>
<td>Plate, Blowback</td>
</tr>
<tr>
<td>8</td>
<td>38647</td>
<td>Plate, Guard</td>
<td>16</td>
<td>38656</td>
<td>Deflector, Discharge</td>
</tr>
</tbody>
</table>
Schematic – Hopper, Chute and Discharge
### Parts List – Drive Assembly

**Note:** Part numbers listed are available through DR Power Equipment.

<table>
<thead>
<tr>
<th>Ref#</th>
<th>Part#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>13443</td>
<td>Bolt, HCS, 5/16-18 X 1-1/2&quot;, GR5, ZP</td>
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<td>11076</td>
<td>Nut, Nylon Lock, 5/16-18, ZP</td>
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<tr>
<td>3</td>
<td>15488</td>
<td>Nut, Push Cap, 5/8&quot;, Black</td>
</tr>
<tr>
<td>4</td>
<td>38629</td>
<td>Base, 11.5</td>
</tr>
<tr>
<td>5</td>
<td>38630</td>
<td>Support, Base</td>
</tr>
<tr>
<td>6</td>
<td>38644</td>
<td>Axle</td>
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<tr>
<td>7</td>
<td>36498</td>
<td>Spacer, Wheel</td>
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<tr>
<td>8</td>
<td>36520</td>
<td>Wheel, 9&quot; X 3.5&quot;</td>
</tr>
<tr>
<td>9</td>
<td>12321</td>
<td>Bolt, HCS, 5/16-18 X 3/4, GR5, ZP</td>
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<td>11173</td>
<td>Bolt, Hex, 5/16-18 X .5&quot;, Trilobe</td>
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<td>11</td>
<td>13758</td>
<td>Label, Check Oil, 2.75&quot; X .63&quot;</td>
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<tr>
<td>12</td>
<td>18887</td>
<td>Label, Hot Surface</td>
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<tr>
<td>13</td>
<td>11241</td>
<td>Washer, Flat, 5/16&quot;, USS, ZP</td>
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<td>14</td>
<td>11250</td>
<td>Washer, Lock, 1/4&quot;, Ext Tooth (E/S only)</td>
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<td>15</td>
<td>11069</td>
<td>Nut, Hex, 5/16-18, GR2 (E/S only)</td>
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<td>16</td>
<td>38664</td>
<td>Bolt, Hex, 5/16-18 X 1-1/2&quot;, Tri, Ft</td>
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<td>17</td>
<td>38643</td>
<td>Bracket, Belt Tension</td>
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<td>18</td>
<td>38661</td>
<td>Engine, 11.5 B&amp;S, E/S</td>
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<td>Engine, 11.5 B&amp;S, M/S</td>
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<td>19</td>
<td>27901</td>
<td>Washer, Flat, .385&quot; X 1.25&quot; X .25&quot;, ZP</td>
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<td>20</td>
<td>16513</td>
<td>Bolt, HCS, 3/8-24 X 1-1/4&quot;, GR8 W/Patch</td>
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<tr>
<td>21</td>
<td>14229</td>
<td>Key, Square, 1/4&quot; X 1-1/4&quot;</td>
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<tr>
<td>22</td>
<td>38657</td>
<td>Spacer, Clutch, .73&quot; Long</td>
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<td>23</td>
<td>38652</td>
<td>Belt, V, B27, Corded, Raw Edge</td>
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<tr>
<td>24</td>
<td>38961</td>
<td>Clutch, Centrifugal, 1&quot; Bore, 4&quot; OD</td>
</tr>
<tr>
<td>25</td>
<td>38653</td>
<td>Cover, Belt</td>
</tr>
<tr>
<td>26</td>
<td>11983</td>
<td>Bolt, HCS, 1/4-20 X 3/4&quot;, GR2, ZP (E/S only)</td>
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<tr>
<td>27</td>
<td>11073</td>
<td>Nut, Nylon Lock, 1/4-20, ZP (E/S only)</td>
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<td>28</td>
<td>13447</td>
<td>Battery, 12v, 9Ah (E/S only)</td>
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<td>29</td>
<td>25862</td>
<td>Bracket, Battery (E/S only)</td>
</tr>
<tr>
<td>30</td>
<td>28697</td>
<td>Pad, Battery 2.5&quot; X 6.12&quot; (E/S only)</td>
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<td>31</td>
<td>24230</td>
<td>Strap, Battery (E/S only)</td>
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<td>32</td>
<td>38667</td>
<td>Wire Harness, Battery (E/S only)</td>
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<td>33</td>
<td>29487</td>
<td>Boot, Terminal, Red (E/S only)</td>
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<td>34</td>
<td>37340</td>
<td>Cable Clamp, 5/16&quot;, Nylon (E/S only)</td>
</tr>
<tr>
<td>35</td>
<td>31283</td>
<td>Nut, Lock, 1/4-20, Serrated Flange (E/S only)</td>
</tr>
<tr>
<td>36</td>
<td>11170</td>
<td>Screw, 10-32 X 1/2&quot;, Type F, Hex, ZP (E/S only)</td>
</tr>
</tbody>
</table>
### Parts List – Cutting Chamber

**Note:** Part numbers listed are available through DR Power Equipment.

<table>
<thead>
<tr>
<th>Ref#</th>
<th>Part#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>11076</td>
<td>Nut, Nylon Lock, 5/16-18, ZP</td>
</tr>
<tr>
<td>2</td>
<td>38669</td>
<td>Label, Screen Bolt</td>
</tr>
<tr>
<td>3</td>
<td>39283</td>
<td>Label, Danger, Discharge</td>
</tr>
<tr>
<td>4</td>
<td>34140</td>
<td>Label, DR Logo, 4” Silver</td>
</tr>
<tr>
<td>5</td>
<td>38640</td>
<td>Bolt, HCS, 5/16-18 X 6”, GR5, ZP</td>
</tr>
<tr>
<td>6</td>
<td>38650</td>
<td>Bolt, HCS, 5/16-18 X 6.5”, GR5, ZP</td>
</tr>
<tr>
<td>7</td>
<td>38632</td>
<td>Sideplate, Drive Side</td>
</tr>
<tr>
<td>8</td>
<td>38631</td>
<td>Sideplate, Chipper Side</td>
</tr>
<tr>
<td>9</td>
<td>38633</td>
<td>Scroll, Housing</td>
</tr>
<tr>
<td>10</td>
<td>38634</td>
<td>Housing, Top Scroll</td>
</tr>
<tr>
<td>11</td>
<td>38654</td>
<td>Bolt, Carr, 1/2-13 X 1-1/2”, GR5, ZP</td>
</tr>
<tr>
<td>12</td>
<td>11072</td>
<td>Nut, Nylon Lock, 1/2-13,GR5,ZP</td>
</tr>
<tr>
<td>13</td>
<td>25631</td>
<td>Bearing, Flange, 1-3/16”</td>
</tr>
<tr>
<td>14</td>
<td>38655</td>
<td>Spacer, 1.190” X 1.62” X .062”, ZP</td>
</tr>
<tr>
<td>15</td>
<td>18301</td>
<td>Ring, Retaining, 1-3/16”</td>
</tr>
<tr>
<td>16</td>
<td>38635</td>
<td>Flywheel, Balanced W/Knife</td>
</tr>
<tr>
<td>17</td>
<td>38651</td>
<td>Pulley, V-Belt, 4.75” OD</td>
</tr>
<tr>
<td>18</td>
<td>38663</td>
<td>Bolt, SHCS, 5/16-18 X 5/8”, ZP</td>
</tr>
<tr>
<td>19</td>
<td>38646</td>
<td>Screen, 1” Holes</td>
</tr>
<tr>
<td>20</td>
<td>37307</td>
<td>Hammer, J</td>
</tr>
<tr>
<td>21</td>
<td>37306</td>
<td>Hammer, Flat</td>
</tr>
<tr>
<td>22</td>
<td>38637</td>
<td>Shaft, Hammer</td>
</tr>
<tr>
<td>23</td>
<td>38638</td>
<td>Spacer, Hammer,.865” Long</td>
</tr>
<tr>
<td>24</td>
<td>38639</td>
<td>Spacer, Hammer,.865” Long W/Hole</td>
</tr>
<tr>
<td>25</td>
<td>36510</td>
<td>Bolt, SHCS, 10-24 X 1.12”, Alloy Blk</td>
</tr>
<tr>
<td>26</td>
<td>11873</td>
<td>Nut, Nylon Lock 10-24</td>
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<tr>
<td>27</td>
<td>11173</td>
<td>Bolt, Hex, 5/16-18 X .5”, Trilobe</td>
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<tr>
<td>28</td>
<td>38641</td>
<td>Plate, Knife Access</td>
</tr>
<tr>
<td>29</td>
<td>38642</td>
<td>Plate, Hammer Shaft Access</td>
</tr>
<tr>
<td>30</td>
<td>16513</td>
<td>Bolt, HCS, 3/8-24 X 1-1/4”, GR8 W/Patch</td>
</tr>
<tr>
<td>31</td>
<td>14229</td>
<td>Key, .25” X 1.25”</td>
</tr>
<tr>
<td>32</td>
<td>22887</td>
<td>Washer, .385” ID, 1.5” OD, .25”L, ZP</td>
</tr>
</tbody>
</table>

**Not Shown**

- 40524 Kit, Knife, 11.5 CS3
Schematic – Cutting Chamber
Notes:
DR® 11.5 CHIPPER SHREDDER

2-Year Limited Warranty

Terms and Conditions

The DR® CHIPPER SHREDDER is warranted for two (2) years against defects in materials or workmanship when put to ordinary and normal consumer use; ninety (90) days for any other use.

For the purposes of all the above warranties, “ordinary and normal consumer use” refers to non-commercial residential use and does not include misuse, accidents or damage due to inadequate maintenance.

DR Power Equipment certifies that the DR® CHIPPER SHREDDER 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 consumer use, ninety (90) days for any other use.

The 2-Year Limited Warranty on the DR® CHIPPER SHREDDER 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 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 Belt, knife, hammers, and hammer shafts. 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.

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® CHIPPER SHREDDER.

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 11.5 CHIPPER SHREDDER

To help maintain your DR 11.5 CHIPPER SHREDDER for optimum performance, we recommend you follow this checklist each time you use your CHIPPER SHREDDER.

WARNING

Before performing any maintenance procedure or inspection, stop the Engine, wait five minutes to allow all parts to cool. Disconnect the Spark Plug Wire, keeping it away from the Spark Plug.

[ ] Check the Engine oil and Fuel Tank level.
[ ] Check that Engine is clean of debris.
[ ] Remove any unprocessed material from the Chipper Chute and Shredder Hopper.
[ ] Check the general condition of the CHIPPER SHREDDER, e.g.; nuts, bolts, welds, etc.
[ ] Check Tire Pressure and wear.
[ ] Check the Chipper Knife for tightness, nicks and wear.
[ ] Check the Blowback Guards and Discharge Guard for wear and damage.

End of Season and Storage

WARNING

Before performing any maintenance procedure or inspection, stop the Engine, wait five minutes to allow all parts to cool. Disconnect the Spark Plug Wire, keeping it away from the Spark Plug.

• Change the Engine oil.
• Clean or replace the Air Filter.
• Check the Chipper Knife and Hammers for nicks and wear.
• Remove any debris wrapped around the Hammers/Spacers.
• If your DR 11.5 CHIPPER SHREDDER will be idle for more than 30 days, we recommend using a gas stabilizer. 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. Close the Fuel Shut-Off Valve to prevent carburetor overflow and leakage.
• Clean the exterior of the unit to remove all dirt, grease, and any other foreign material. To prevent rust, touch up painted surfaces that have been scratched or chipped.
• Be sure all nuts, bolts, and screws are securely fastened.
• Remove the Spark Plug and pour about 1 ounce of motor oil into the Cylinder hole. Replace the Plug and crank the Engine over a couple of times using the Pull Cord. This will coat the piston and seat the valves to prevent moisture buildup.
• If possible, store the CHIPPER SHREDDER in a dry, protected place. If it is necessary to store the machine outside, after the DR 11.5 CHIPPER SHREDDER has cooled, cover the machine with a suitable protective cover that does not retain moisture. Do not use plastic as this material cannot breathe; it also allows condensation to form, which will cause your machine to rust.