

# DR<sup>®</sup> LAWN AERATOR

## SAFETY & OPERATING INSTRUCTIONS



Serial No. \_\_\_\_\_

Order No. \_\_\_\_\_

**Original Language**

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

### **⚠ WARNING**

Read and understand this manual and all instructions before operating the DR LAWN AERATOR.

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### *Conventions used in this manual*

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#### **WARNING**

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

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#### **CAUTION**

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

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#### **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.

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### *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. 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.

## Chapter 1: General Safety Rules

### **WARNING**

Read this safety & operating Instructions manual before you use the DR LAWN AERATOR. 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](http://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 LAWN AERATOR carries prominent labels as reminders for its proper and safe use. Shown below are copies of 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 LAWN AERATOR as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.

WARNING: Check Oil  
Before Starting Engine

#13758

▲ Lower to release tines ▲  
**TINE POSITION LEVER**  
▼ Lift to raise tines ▼

270991A

#27696

**START**

#19320



**DR® LAWN AERATOR**

**BEFORE STARTING**

- Read Operating Instructions.
- Check engine gas and oil levels.
- Insure that the tine position lever is in the raised position.
- Move choke lever to CHOKE position.
- Move throttle lever to FAST position.

**TO START ENGINE**

*Electric Starting*

- Turn key to START and hold until engine starts.
- Release key.
- Move choke lever to RUN position.

*Manual Starting*

- Pull the recoil handle with a long, slow stroke.
- Move choke lever to RUN position.

**TO OPERATE**

- Lower the tine position lever.
- Lift and hold the bail bar against the handlebar.
- Raise the tine position lever or release the bail bar when nearing sprinkler heads or other objects.
- Keep the tine position lever raised when traveling over driveways or other hard surfaces.

**TO STOP ENGINE**

- Slowly move throttle lever to STOP position.
- Turn key to OFF (electric-start models) and remove key.

DR POWER EQUIPMENT  
75 Meigs Road, Vergennes, VT 05491  
1-800-DR-OWNER [www.drpower.com](http://www.drpower.com)

270991A

**WARNING** AVOID SERIOUS INJURY OR DEATH

READ AND UNDERSTAND OPERATOR'S MANUAL.

KEEP BYSTANDERS AT LEAST 50 FEET FROM WORK AREA.

FLAG SPRINKLER HEADS AND OTHER HIDDEN OBJECTS.

WEAR SAFETY GLASSES, HEARING PROTECTION, GLOVES, AND PROPER FOOTWEAR.

USE CAUTION ON SLOPES. DO NOT OPERATE ON SLOPES GREATER THAN 15°.

DO NOT OPERATE WITHOUT COVERS AND GUARDS SECURELY IN PLACE.

#27695



#18887

### General Safety Warnings

### Personal Protection

### **WARNING**

This is a high-powered machine, with moving parts operating with high energy. You must dress properly to minimize risk of injury. Not dressing appropriately can create a number of hazards for you. Always take the following precautions when using this machine:

- Always wear protective goggles or safety glasses with side shields while using the DR LAWN AERATOR to protect your eyes from possible thrown debris.
- Avoid wearing loose clothing or jewelry, which can catch on moving parts.
- We recommend wearing gloves while using the DR LAWN AERATOR. Be sure your gloves fit properly and do not have loose cuffs or drawstrings.
- Wear shoes with non-slip treads when using your DR LAWN AERATOR. 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 DR LAWN AERATOR.
- Use ear protectors or ear plugs rated for at least 20 dba to protect your hearing.

## ***Safety for Children and Pets***

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### **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 aerating 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 DR LAWN AERATOR.
- 

## ***Safety with Gasoline - Powered Machines***

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### **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 and keep them away from heat and open flame, 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 after the engine has cooled completely. 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.
  - Allow the engine to cool completely before storing in any enclosure. Never store a fuel container or machine that has gas in the tank 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, disconnect the spark plug wire, keeping it away from the spark plug to prevent accidental starting and wait 5 minutes 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.
- 

## ***Protecting Yourself and those around you***

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### **WARNING**

Operating the DR LAWN AERATOR safely is necessary to prevent or minimize the risk of death or serious injury. Unsafe operation can create a number of hazards for you, as well as anyone else in the nearby area. Always take the following precautions when operating the DR LAWN AERATOR:

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
  - Your DR LAWN AERATOR is a powerful tool, not a plaything. Exercise extreme caution at all times. The machine is designed to aerate lawns. Do not use it for any other purpose.
-

## ***Protecting Yourself and those around you (continued)***

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### **WARNING**

- Keep bystanders at least 50 feet away from your work area at all times. Stop the engine when another person or pet approaches.
  - Know how to stop the DR LAWN AERATOR 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.
  - 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 LAWN AERATOR. This includes all shields and guards. Modifications to your machine could cause personal injuries and property damage and will void your warranty.
  - Allow only one person to operate the DR LAWN AERATOR at any time.
  - If the machine should start making an unusual noise or vibration, shut down the engine, disconnect the spark plug wire, keeping it away from the spark plug to prevent accidental starting, wait 5 minutes, then inspect for loose parts or damage. Vibration is generally a warning of trouble. Tighten, clean, repair and/or replace parts as necessary.
  - Never tamper with safety devices. Check their proper operation regularly.
  - Before performing any maintenance or inspection procedure on the DR LAWN AERATOR, raise the tines with the tine position lever first and then release the bail bar to disengage tines, move throttle to idle, switch the engine off, remove the spark plug wire and keep it away from the spark plug.
  - Never allow people who are unfamiliar with these instructions to use the DR LAWN AERATOR. Allow only responsible individuals who are familiar with these rules of safe operation to use your machine. Disconnect the spark plug wire when the machine is not being used to prevent operation without instruction.
  - Never overload or attempt to aerate lawns beyond the manufacturer’s recommendation. Personal injury or damage to the machine could result.
  - While using the DR LAWN AERATOR, 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.
  - Never cross hard objects or surfaces (sidewalks, driveways, stepping stones, etc.) with the aerating tines down.
  - Do not use this machine on hills greater than 15 degrees, especially when turning.
  - Keep hands and feet away from operating parts.
  - Never leave the machine unattended while running.
- 

### ***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® LAWN AERATORS 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 LAWN AERATOR in a safe manner. Contact us at [www.DRpower.com](http://www.DRpower.com) or call 1-800-DR-OWNER (376-9637) for assistance.

## Chapter 2: Setting Up The DR LAWN AERATOR

It may be helpful to familiarize yourself with the controls and features of your DR LAWN AERATOR as shown in Figure 1 before beginning these procedures. If you have any questions at all, please feel free to contact us at [www.DRpower.com](http://www.DRpower.com).

### DR LAWN AERATOR Controls and Features



Figure 1

## Specifications

<b>Engine</b>	Briggs and Stratton Manual-Start	Briggs and Stratton Electric-Start
	Please refer to the Engine Operator's Manual for Engine-specifications.	Please refer to the Engine Operator's Manual for Engine-specifications.
<b>Gearbox</b>	Direct Engine Mount	Direct Engine Mount
<b>Ratio</b>	6:1 Reduction	6:1 Reduction
<b>Shaft</b>	.75" Diameter	.75" Diameter
<b>Output Drive</b>	V-Belt to Tine Crankshaft	V-Belt to Tine Crankshaft
<b>Self-Propel</b>	Automatic by Tine Engagement Action	Automatic by Tine Engagement Action
<b>Speed</b>	2.5 MPH	2.5 MPH
<b>Aerator Tines</b>	Cam Drive Action	Cam Drive Action
<b>Crankshaft and Rods</b>	Heavy Duty Cast Iron	Heavy Duty Cast Iron
<b>Core-Punch End</b>	Hardened Steel, Replaceable	Hardened Steel, Replaceable
<b>Number Of Tines</b>	3	3
<b>Core Spacing</b>	4"	4"
<b>Core Depth</b>	Up to 2.75"	Up to 2.75"
<b>Frame Construction</b>	.11" Thick Welded Steel	.11" Thick Welded Steel
<b>Handlebars</b>	1" Dia. x .12" Thick Steel Tubing w/ Foam Grip	1" Dia. x .12" Thick Steel Tubing w/ Foam Grip
<b>Wheels</b>	10" Dia., Steel w/ Bearings, Rubber Tread	10" Dia., Steel w/ Bearings, Rubber Tread
<b>Tine Engage</b>	Operator Presence Bail Bar	Operator Presence Bail Bar
<b>Tine Position</b>	Lever to Raise Tines for Transport/Storage	Lever to Raise Tines for Transport/Storage
<b>Machine Weight</b>	180 Lbs.	196 Lbs.
<b>Machine Dimensions</b>	63.7" L x 21.7" W x 38.5" H	63.7" L x 21.7" W x 38.5" H
<b>Shipping Weight</b>	232 Lbs.	248 Lbs.
<b>Shipping Dimensions</b>	54.75" L x 35.5" W x 45.25" H	54.75" L x 35.5" W x 45.25" H

Except for the Handlebar Assembly, your DR Lawn Aerator comes fully assembled.

### Installing the Handlebar Assembly onto the Aerator Frame

#### Tools and Supplies Needed:

- Two 7/16" Wrenches
1. Cut the plastic wrap from around the Bail Bar Spring with a Utility Knife so you can access the Spring (**Figure 2**).
  2. Disconnect the Bail Bar Spring from the Bail Bar Bracket.
  3. Cut the Cable Tie on the Tine Position Lever and rotate the Lever in towards the machine.

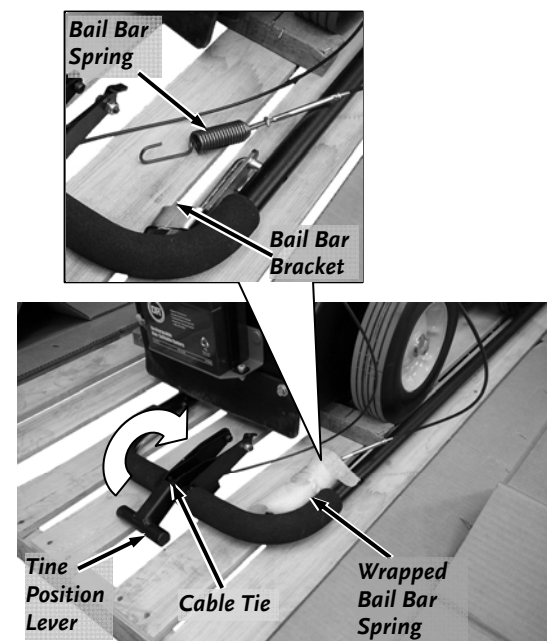


Figure 2

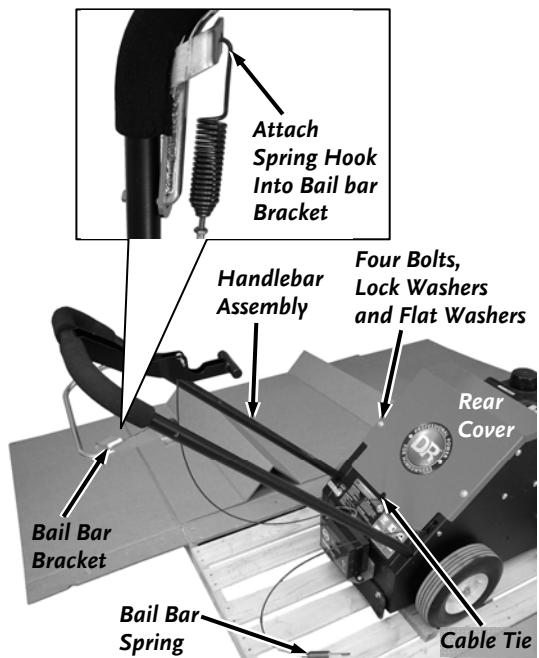


Figure 3

4. Pull the Handlebar Assembly from under the Frame and slide both tube ends into the holes in the Frame (**Figure 3**).

5. Reconnect the Bail Bar Spring to the Bail Bar Bracket.

**Note:** If it is too difficult to reconnect the Spring you can carefully slide one side of the Bail Bar out of the hole in the Handlebar tube, attach the Spring and reinstall the Bail Bar back into the Tube.

6. Remove the four Bolts, Lock Washers and Flat Washers that secure the Rear Cover using a 7/16" Wrench and remove the Cover.

7. Rotate the Tine Position Lever back towards the Handlebar and cut the Cable Tie that is holding the Tines in the "Raised" position. Rotate the Tine Position Lever back towards the machine to lower the Tines out of the way.

8. Remove two Bolts, four Flat Washers and two Locknuts from the Product Package (**Figure 4**). The remaining Washers and Locknuts are spares.

9. Align the holes in the Handlebar to the Frame holes and secure each side with a Bolt and Flat Washer (top side) and Locknut and Flat Washer (bottom side) using two 7/16" Wrenches (**Figure 5**). Make sure you tighten the hardware adequately.

10. Reinstall the Cover.

11. Pull the Tine Position Lever back toward the Handlebar to raise the Tines. Push the Aerator off the Pallet.

Do not discard the shipping materials until you are fully satisfied with your new DR<sup>®</sup> LAWN AERATOR.

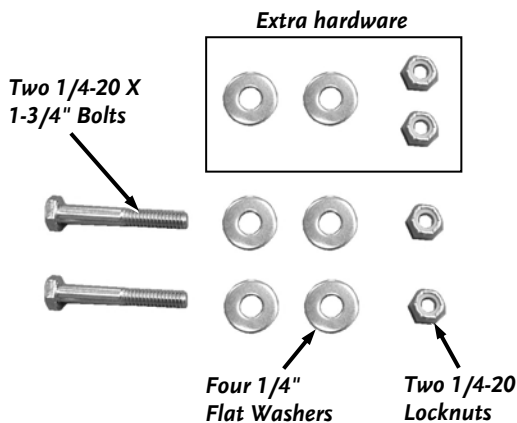


Figure 4

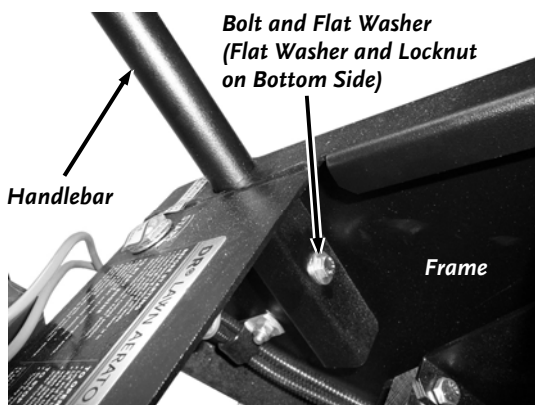


Figure 5



## 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 Frame and Engine must be level.
  - The dipstick should be screwed down to ensure an accurate oil level reading.

Engine Oil	SAE 30: above 50 degrees F; 10w-30: 10-90 degrees F; 5w-30: 30 degrees F or below
Fuel	Unleaded gasoline

**NOTE:** Use only the recommended high detergent engine oil. Other types of oil could cause problems operating your machine. Please refer to your Engine Operator's Manual for detailed oil information including capacities.

- Position the machine so the Frame and Engine are level. Remove the Oil Fill/Dipstick (**Figure 6**) and clean the end of it with a rag.
- Machines are shipped with no oil. Initially add 16 oz. of the oil recommended by the Engine Manufacturer. Wait one minute for the oil to settle.
- Replace the Dipstick and screw it in to ensure an accurate reading and then remove it to check the oil level (clean the Dipstick with the rag after checking).
- Continue adding a few ounces of oil at a time, rechecking the Dipstick until the oil reaches the fill mark. Be careful not to overfill.
- Replace the Dipstick and screw it in when full.
- Remove the Gas Fill Cap and fill the Gas 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 Gas Fill Cap before starting the engine. See your Engine Operator's Manual for more detailed information.

**NOTE:** To refill the gas tank, turn the engine OFF and let the engine cool at least five minutes before removing the gas fill cap.

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

We ship all Electric-Starting systems with the Negative Battery Terminal Wire disconnected. This prevents the Battery from discharging during shipment.

#### Tools and Supplies Needed:

- Wire Cutters
- Cut the Cable Tie to release the Keys and negative Battery Wire (**Figure 7**).
  - Connect the Negative Wire (green) onto the negative Battery Lug (marked black).

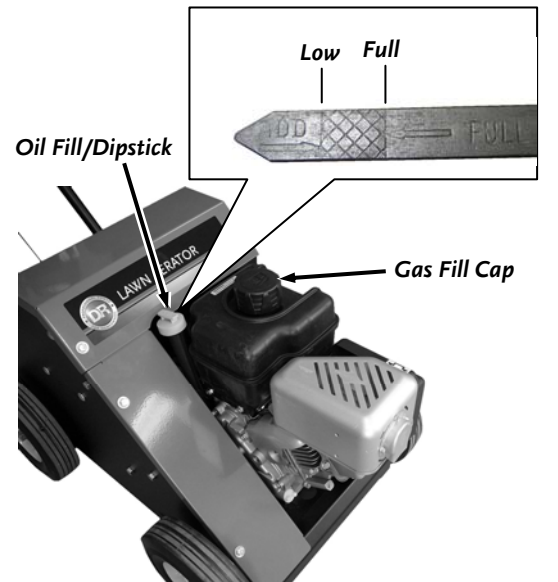


Figure 6

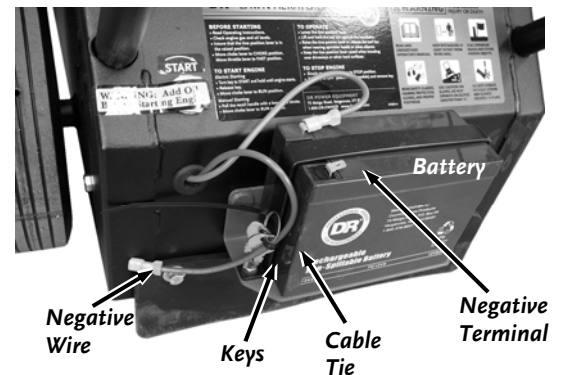


Figure 7

## Chapter 3: Operating The DR LAWN AERATOR

It may be helpful to better familiarize yourself with the features of your DR LAWN AERATOR by reviewing **Figure 1** in Chapter 2 before beginning the steps outlined in this chapter.

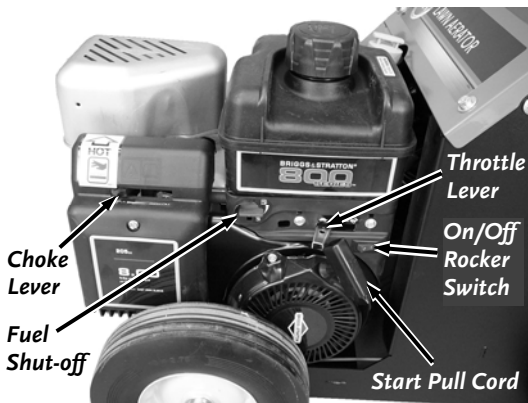


Figure 8

### **! WARNING**

- Read and understand the warnings listed in “Chapter 2 General Safety Rules” before operating this LAWN AERATOR.
- Always refer to the Engine “Operator’s Manual” that came with your machine for more detailed Engine operation procedures.

### **Before Starting the Engine**

1. Check the Engine oil level every time you use the machine (refer to your Engine Operator’s Manual).
2. Check the Fuel level and make sure the Gas Shut-Off Valve is in the OPEN position (**Figure 8**) (refer to your Engine Operator’s Manual).

### **Starting the Engine**

**Note:** Ensure that the Tine Position Lever is in the “Lift to Raise Tines” position.

1. When starting a cold Engine; push the Choke lever to the right “CHOKE” position (**Figure 8**). If re-starting a warm Engine, leave the Choke in the “RUN” position.
2. Move the Throttle lever to the rabbit (fast) position.
3. Move the On/Off Rocker Switch to the On (“I”) position.
4. **Manual Start Engine** - 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 usually starts the DR LAWN AERATOR.

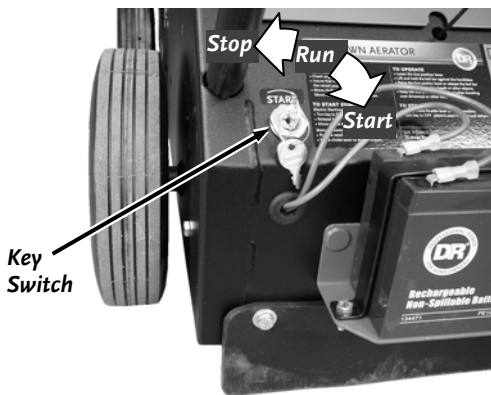


Figure 9

**Electric Start Engine** - Turn the Key Switch at the back of the machine clockwise to “START” until the Engine starts and then release (**Figure 9**). When released the Key will return back to the run position and the Engine will continue to run.

5. After the Engine starts, slowly push the Choke Control lever to the “RUN” position. Wait until the Engine runs smoothly before each Choke adjustment.

**Note:** While aerating you should always operate the Engine with the Throttle in the Rabbit (Fast) position.

### **Stopping the Engine**

**Note:** Ensure that the Tine Position Lever is in the “Lift to Raise Tines” position.

1. Move the Throttle Lever to the Turtle (slow) position allowing the Engine to idle (**Figure 8**).
2. **Manual Start Engine** - Switch the On/Off Rocker Switch to the Off (“O”) position.  
**Electric Start Engine** - Turn the Key Switch counterclockwise to the Off position.

### **Before You Begin**

- The best conditions for aerating are soft and moist ground. If you are unsure of the ground conditions a simple test will determine whether it is necessary to water before aerating. Using a garden hand spade or a large screw driver, you should be

able to drive the tool in the ground 2 to 3 inches with little effort. If you are unable to do so, then watering the lawn a day before aerating is necessary.

- Inspect the lawn to be aerated and remove rocks, wire, string and other objects that might present a hazard before starting.
- Identify and mark all ground objects to be avoided, such as sprinkler heads, stakes, water valves, clothes line anchors, etc.
- If operating in cold weather, first engage the Tines in the “raised” position for at least two minutes prior to actual aeration. This is to warm the grease in the Tine Crank Bearings.

## Aerating your Lawn

Practice aerating in an open area prior to aerating in tight areas.

### WARNING

Read and understand the warnings listed in “Chapter 2 General Safety Rules” before operating this LAWN AERATOR.

1. Start the Engine as described in the “Starting the Engine” section on the previous page.
2. Allow the engine to warm up at idle for a few minutes and then adjust the Throttle to the rabbit (fast) position.
3. Make sure the Tine Position Lever is in the “Raised” position (**Figure 10**).

**Note:** Always aerate with the Throttle Lever at the rabbit (fast) position.

4. Hold the Tine Engagement Bail Bar to the Handlebar.
5. Slowly push the Tine Position Lever forward and keep pace with the machine as the Tines engagement with the ground causes the self propel action.

**Note:** Do not push the machine while operating. The holes will be deeper if you allow the Aerator to pull itself forward as the tines penetrate the soil.

### CAUTION

Never cross hard objects or surfaces (sidewalks, driveways, stepping stones, etc.) with the tines down.

## Installing the Maintenance Meter Accessory (Kit #19945)

### Tools and Supplies needed:

- 1/2" Wrench

1. Insert the Meter into the Bracket opening as shown in Figure 11. Press it firmly to ensure the retaining clips on the top and bottom of the meter have snapped into place.
2. Slide the Meter Wire Connector firmly onto the Meter Wire Terminal on the back of the meter.
3. Remove the Bolt, Lock Washer and Flat Washer from the Frame using a 1/2" Wrench (**Figure 11**).
4. Position the Maintenance Meter Bracket and secure with the Bolt, Lock Washer and Flat Washer using a 1/2" Wrench.
5. Remove the Engine Air Filter Cover and Filters to gain easy access to the Spark Plug (**Figure 12**).

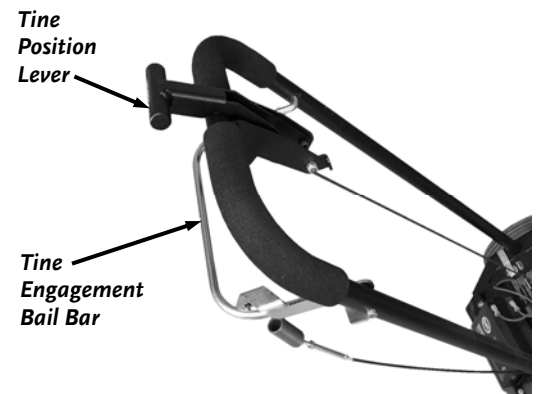


Figure 10

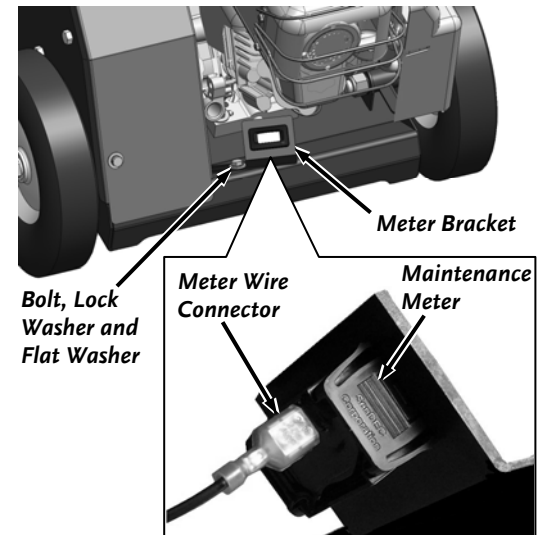


Figure 11

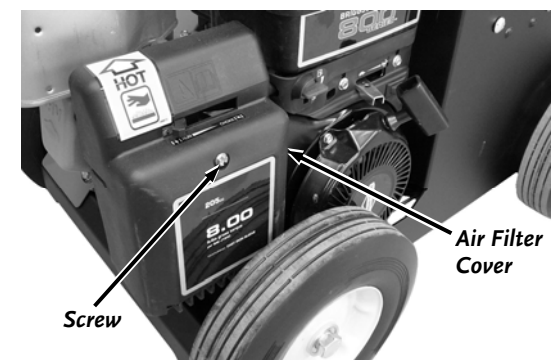


Figure 12

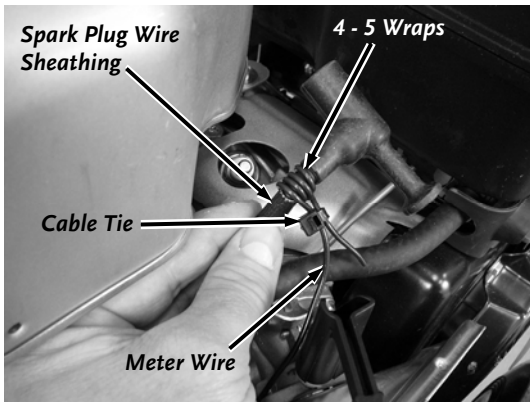


Figure 13

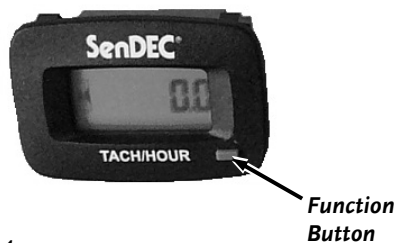


Figure 14

6. Pull the Plug Wire Boot from the Spark Plug so you can reach the Plug Wire better (**Figure 13**).

7. Route the Meter Wire up to the Spark Plug.

**NOTE:** Avoid placing the Wire on, or near hot surfaces. Leave some slack in the Wire between the Meter and Plug Wire to avoid stress to the Wire.

8. At the area between the Sheathing and Rubber Boot, wrap the Sensor Wire tightly around the Spark Plug Wire 4 to 5 times and secure the Wire as shown with a Cable Tie. Make sure the Cable Tie is securing both ends of the Wire securely without causing stress on the Wire. Cut the excess Cable Tie and Sensor Wire with Wire Cutters.

9. Replace the Engine Air Filter Cover.

**Note:** When installing the Air Filter Cover make sure you have the Filters installed correctly and that the bottom Tabs in the Filter Cover are inserted fully into the slots. See the Engine manual for details.

### Operating the Maintenance Meter

The Meter is fully automatic with a display that may be read at all times, whether the engine is on or off however the engine RPM will display as '0' until the engine is running. You can cycle through the various functions of the Meter at anytime by pressing the gray Function Button located on the front of the Meter (**Figure 14**).

When the Meter is set to Accumulated Hours and the Engine is running the hourglass will blink on and off indicating that it is monitoring run time.

The Meter will monitor the Accumulated Running Time, Engine RPM, Time until the Engine Oil needs to be changed and the Time until Lubrication is recommended. After 20 hours of running time, the meter will automatically blink "CHG OIL" --- "in 5.0" and will blink every 10 seconds as a gentle reminder as the time counts down. When these last 5 hours have elapsed the meter will blink "CHG OIL" --- "NOW".

Once you have changed the oil or lubed the machine you can reset the Meter. With the Meter set on the blinking alert, hold the Function Button down for 9 seconds and the alert will be reset back to the 25 hour start time to begin count down until the next oil change.

**Note:** If you are running your DR Lawn Aerator for the first time, the oil should be changed after the first 5 hours of operation. You may then follow the meter signal for oil change reminders. If the RPM indication is not responding to changes in engine speed, check the connection at the back of the Meter and make certain the meter wire is wrapped tightly around the spark plug wire.

## Chapter 4: Maintaining The DR LAWN AERATOR

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 operator's manual for maintenance procedures. Service intervals listed in the checklist below supersede those listed in the engine manufacturer's operator's manual.

### **⚠ WARNING**

Before performing any maintenance procedure or inspection, stop the engine, wait five (5) minutes to allow all parts to cool. Disconnect the spark plug wire, keeping it away from the spark plug.

### **Regular Maintenance Checklist**

PROCEDURE	BEFORE EACH USE	EVERY 10 HOURS	EVERY 25 HOURS	EVERY 100 HOURS
Check Engine Oil Level	▲			
Check General Equipment Condition, e.g. tight nuts, bolts, welds etc. Tighten hardware as needed	▲			
Clean Engine Exterior & Cooling Fins	▲			
Grease Tine Rod Bearings		▲		
Check Battery Charge			▲	
Check Belt for stretching or wear. Replace as needed.			▲	
Clean Engine Air Filters			▲	
Check Tines for wear. Replace as needed			▲	
Change Engine Oil	1 <sup>st</sup> time 5 hours		▲	
Change Engine Gear Reducer Oil				▲
Replace Spark Plug				▲
Grease Crankshaft Bearings				▲
Replace Engine Air Filters				▲

### **Removing and Replacing the Engine Oil**

#### **Tools and Supplies Needed:**

- 3/8" Wrench
- Rags and approved Container (for waste oil)
- Small funnel
- Engine Oil (see your Engine Manual for Oil specifications)

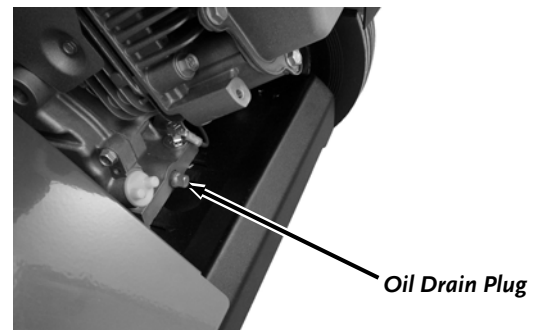
### **NOTICE**

The Frame and Engine must be level to get an accurate reading when adjusting the oil level.

1. Put Blocks under the Frame so the Engine is level and you can position a Waste Oil Container under the Oil Drain Plug (**Figure 15**).
2. Refer to the Engine Operator's Manual for procedures to remove and replace the Engine Oil.

**Note:** Be sure to use environmentally safe disposal procedures when disposing of used Oil.

3. Remove all Blocking from under machine when finished.



**Figure 15**

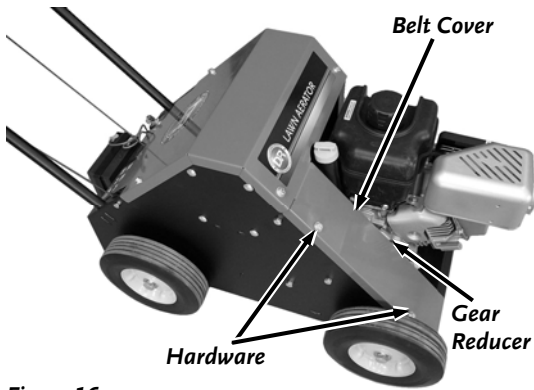


Figure 16

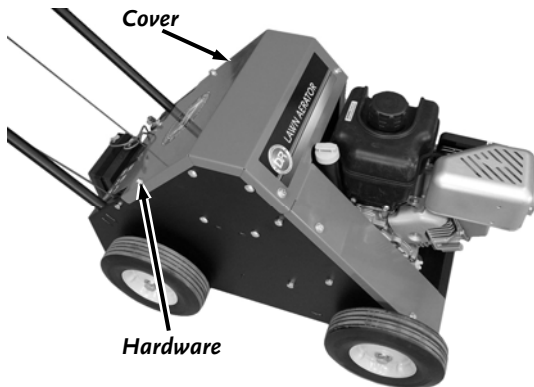


Figure 17

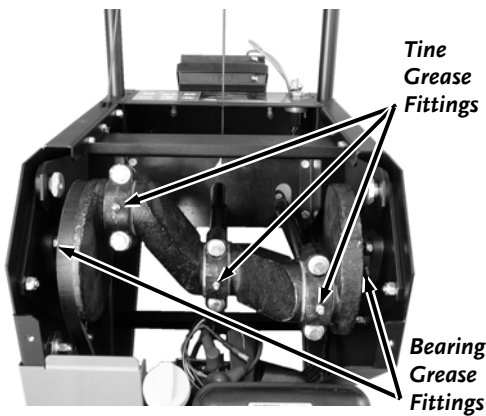


Figure 18

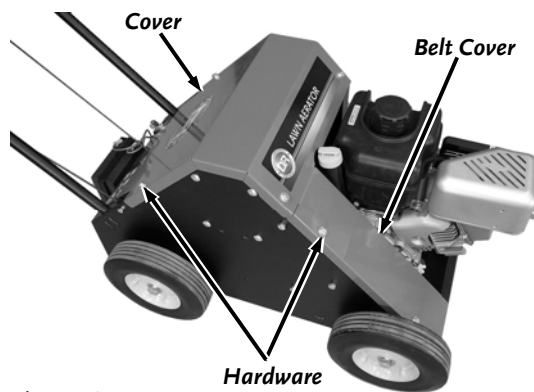


Figure 19

## Removing and Replacing the Engine Gear Reducer Oil

### Tools and Supplies Needed:

- 7/16" Wrench
- 3/8" Wrench
- Rags
- Small Funnel
- Shallow Container (for waste Oil)
- Gear Lube Oil (see Engine manual for Oil specifications)

**Note:** The Engine Gear Reducer Oil is a different type than the Oil used in the Engine itself.

1. Remove the two Bolts and Flat Washers that secure the Belt Cover using a 7/16" Wrench and remove the Cover (**Figure 16**).
2. Position a shallow container on the unit directly under the Gear Reducer.
3. Refer to the Engine Operator's Manual for procedures to remove and replace the Gear Reducer Oil.

**Note:** Be sure to use environmentally safe disposal procedures when disposing of used Oil.

## Greasing the Crankshaft Bearings and Tine Nylon Bearings

### Tools and Supplies Needed:

- 7/16" Wrench
- Grease Gun with all purpose grease
- Rags

1. Remove the four Bolts and Flat Washers that secure the Cover using a 7/16" Wrench (**Figure 17**) and remove the Cover.
2. Grease the three Tine Bearing Fittings (every 10 hours) and Crankshaft Bearing Fittings (every 100 hours) using the Grease Gun (**Figure 18**).
3. Replace the Rear Cover.

## Replacing the Belt

### Tools and Supplies needed:

- 7/16" Wrench
- Two 1/2" Wrenches
- 1" or adjustable Wrench
- New DR Drive Belt (see chapter 6 for part numbers)
- Gloves
- Pliers

## **! CAUTION**

Wear Gloves when removing the Engine and Tine Assembly to protect against pinching and sharp edges.

1. Remove the four Bolts and Flat Washers that secure the Cover using a 7/16" Wrench (**Figure 19**) and remove the Cover.

2. Remove the two Bolts and Flat Washers that secure the Belt Cover using a 7/16" Wrench and remove the Cover.
3. Block up the front of the machine so you have better access to Engine hardware.
4. Remove the four Bolts, five Flat Washers and four Locknuts that secure the Engine to the Frame using two 1/2" Wrenches (**Figure 20**). For Electric Start models the Ground Bolt has two Nuts and two Lock Washers instead of a Locknut.

**Note:** Keep track of the locations of the Flat Washers, Star Washers and Locknuts to ensure you assemble them in the correct locations. Pay special attention to the Ground Wire Location between two Lock Washers at the front left mounting position. See illustration in Chapter 6 for reference of location and order if needed.

5. If you have a manual start machine the Engine can be removed from the Frame. For Electric start machines rotate the Engine with the Wire Harness attached enough so the Belt can be removed from the Pulley (**Figure 21**).

**Note:** The Belt can be loosened from the groove of the Crank assembly to allow more slack to remove the Belt from the Engine Pulley.

6. Use a 1" or Adjustable Wrench (inside of Frame) and a 1/2" Wrench (outside of Frame) to remove the two Pivot Nuts and Bolts from the Tine Position Arms to release the Arms (**Figure 22**).
7. Use two 1/2" Wrenches to remove the three Locknuts (each side) that secure the Bearing Plates to the Frame while leaving the Bolts in place.
8. Carefully remove the Bolts from the Bearing Plates and Frame as you let the Bearing Plates rest on the shoulders on the inside of the Frame.

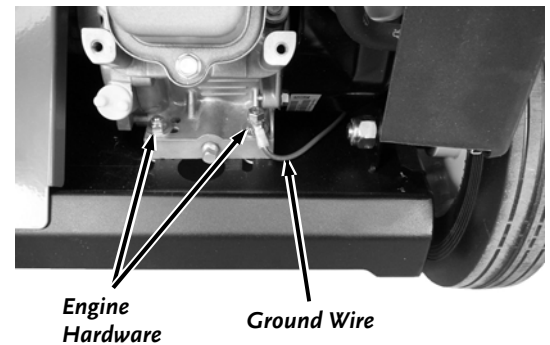


Figure 20

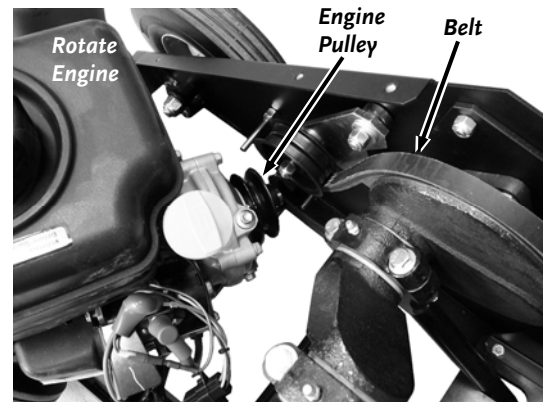


Figure 21

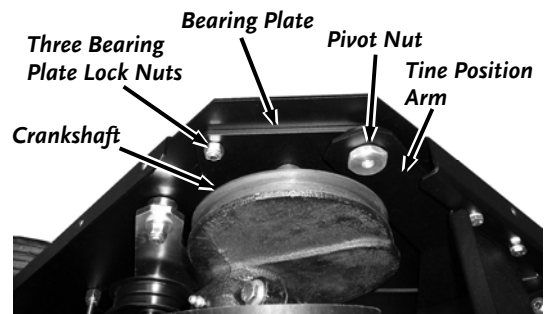


Figure 22

## **CAUTION**

The Tine Assembly is heavy and awkward to lift out of the machine. Have another person help with the removal of the Tine Assembly to avoid injury.

9. Use the top lip of the Bearing Plate to pull the Tine Assembly from the machine.
10. Remove the old Belt and position a new Belt onto the Tine Assembly Belt groove.
11. Lift the Tine Assembly with the new Belt into the Aerator Frame and rest it on the Frame Shoulders. Ensure that you insert the Tines into the slots of the Tine Position Plate (**Figure 23**).
12. Continue the assembly by working in the reverse order starting at step 8 and working back to step 1.
13. Adjust the Drive Cable length for proper Belt tension. See "Adjusting the Drive Cable" on the next page.

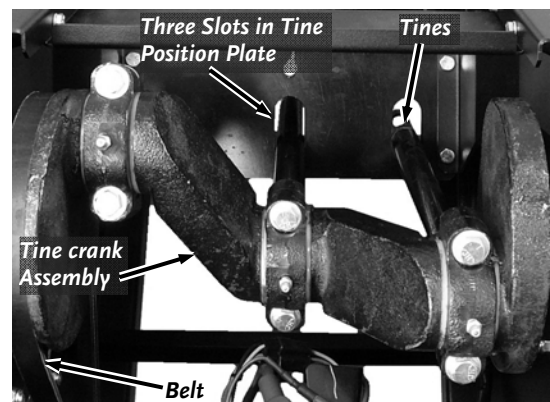


Figure 23

## Adjusting the Drive Cable

For proper Belt tension the Drive Cable Spring should have gaps of 1/16" between the coils when the Tine Engagement Bail Bar is pulled all the way to the Handlebar. If there is less or much more than 1/16" then the Drive Cable should be adjusted.

### Tools and Supplies needed:

- 6mm Wrench
- 10mm Wrench

1. Hold the hex of the Cable adjuster with a 6mm Wrench and loosen the Jam Nut with a 10mm Wrench (**Figure 24**).
2. Screw the Cable Adjuster in a few turns towards the Spring to tighten the Spring tension. Turn it a few turns away to loosen the Spring tension.
3. Pull the Bail Bar to check Spring tension and continue adjustment as needed.
4. Tighten the Jam Nut against the Cable Adjuster when adjustment is finished.

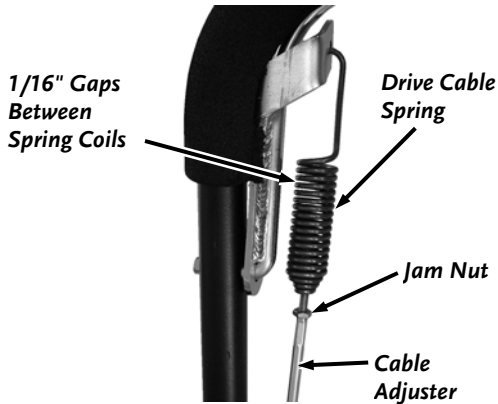


Figure 24

## Replacing the Wheels

### Tools and Supplies needed:

- Two 15/16" Wrenches

1. Lift the DR LAWN AERATOR Wheel off the ground with Blocks or Jack Stands and remove the Locknut from the Wheel Bolt with two 15/16" Wrenches (**Figure 25**).

**NOTE:** The front Wheel Locknuts can be accessed from the top of the Frame so lifting the Wheel just off the ground is enough. The rear Wheels however will need to be lifted enough to access the Locknuts from underneath.

2. The Frame is threaded for the Wheel Bolt. Remove the Bolt from the Frame with a 15/16" Wrench.
3. Position the new Wheel and reinstall the Wheel Bolt until it is snug with the Wheel but not tight so the Wheel still turns freely.
4. Reinstall the Locknut onto the Wheel Bolt.
5. Lower the machine to the ground.

## Replacing the Tines

### Tools and Supplies needed:

- 15/16" Wrench
- 7/8" Wrench
- 7/16" Wrench
- Jack Stands
- Wheel Chocks

1. Remove the four Bolts and Flat Washers that secure the Cover using a 7/16" Wrench (**Figure 26**) and remove the Cover.

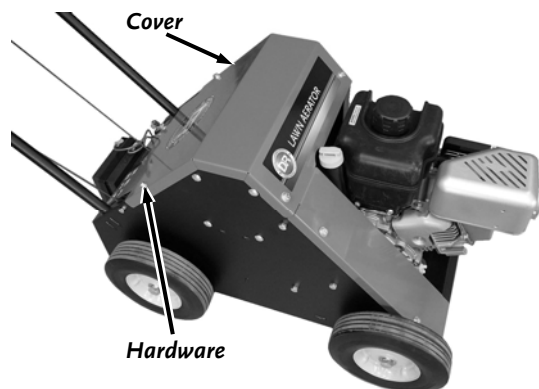


Figure 26



2. Place Wheel Chocks in front of the front Wheels.
3. Lift the rear of the DR LAWN AERATOR off the ground with Jack Stands.

**! CAUTION**

The aerator must be very stable when changing the tines. If you do not position the jack stands and chocks securely the machine may fall and injure you.

4. Lower the Tines with the Tine Position Lever.
5. Hold the Tine Hex in place with a 7/8" Wrench as you turn the Jam Nut away from the Tine Shaft with a 15/16" Wrench (**Figure 27**).
6. Having the Jam Nut loose will now allow you to unscrew the Tine by the Tine Hex to remove the Tine from the Tine Shaft.
7. Add some Thread Locking Compound to the first few lower threads of the Tine as shown and screw the Jam Nut all the way onto the threads as close to the Tine Hex as possible by hand (**Figure 28**).
8. Screw the New Tine into the Tine Rod all the way until it stops. If the Tine core opening is not facing towards the rear of the machine turn it back until the opening is facing the rear.
9. Hold the Tine Hex with the 7/8" Wrench and tighten the Jam Nut very tight against the Tine Shaft with a 15/16" Wrench.
10. Repeat with other Tines as needed.
11. Raise the Tines with the Tine Position Lever and lower the machine to the ground.
12. Reinstall the Cover.

**NOTE:** Allow the Thread Locking Compound to cure overnight before using the Aerator.

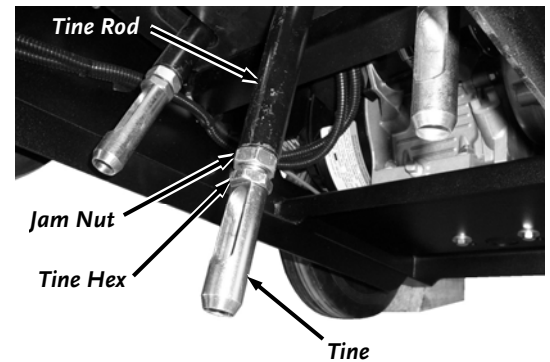


Figure 27

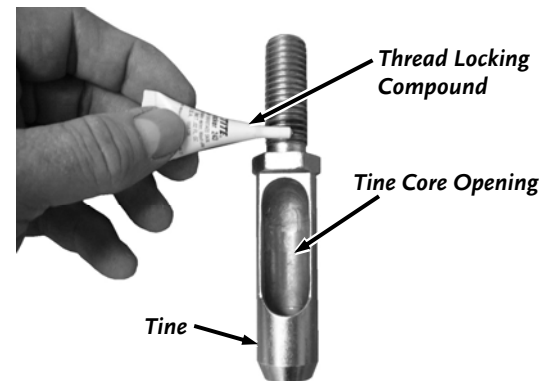


Figure 28

## **Battery Care (For Electric-Start Models Only)**

Proper care can extend the life of a Battery. Follow these recommendations to ensure your Battery's best performance and long life:

- Do not allow the Battery charge to get too low. If the machine is not used, charge the Battery every 4 – 6 weeks. Operate the engine for at least 45 minutes to maintain proper Battery charge.
- Store an unused Battery in a dry environment with temperatures between +40°F (+5°C) and +95°F (+35°C). Make sure the storage temperatures will never be outside of these limits. The battery will discharge more slowly at the lower temperature range.
- Do not charge an already charged Battery. In theory, you cannot overcharge our Battery with a trickle charger; however, when a Battery is fully charged and the charger is still on, it generates heat that could be harmful to the Battery. A fully charged Battery will read 12V-13.2V with a voltmeter.
- Do not continue to crank your Engine when the Battery charge is low.

## **Charging the Battery**

Operate the Engine for at least 45 minutes to maintain proper Battery charge. If the Battery loses its charge, you will need to use a trickle charger (like the DR Battery Charger) to recharge it. The Charger should have an output of 12 volts DC at no more than 2 amps.

- At 1 amp the Battery may need to be charged for as long as 48 hours.
- At 2 amps, the Battery may need to be charged for as long as 24 hours.

**NOTE:** *Using the Recoil Starter and then running the Engine will not recharge a dead or significantly discharged Battery.*

To connect a Battery Charger to your DR LAWN AERATOR, follow the steps listed below.

1. Attach the Black (-) alligator clipped wire from the Charger Adapter to the Negative (-) terminal of the Battery, then attach the Red (+) alligator clipped wire to the Positive (+) Battery terminal.
2. Plug the Charger into a standard wall outlet.
  - Typically, the Battery takes between 6 and 8 hours to fully charge. Do not leave the charger on the battery longer than 24 hours for a 2 amp charger, or 48 hours for a 1 amp charger as you could potentially damage the battery.
  - You can charge the Battery many times. The Battery lasts longer if you charge it before it is fully drained. Keep it fully charged and at room temperature when not using your DR LAWN AERATOR.
  - 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 replacement Batteries directly from us. To install your new Battery, follow the directions on the next page.

---

## **NOTICE**

When you are finished charging the battery, disconnect the charger from the outlet first, then disconnect the battery charger wires from the battery. If you leave the battery charger wires connected to the battery, the battery will discharge itself back into the charger.

---

## Replacing the Battery

### Tools Needed:

- Two 7/16" Wrenches

1. Disconnect the Battery Terminals (**Figure 29**).
2. Remove the Bolts and Locknuts that secure the Battery Clamp using two 7/16" Wrenches.
3. Remove the Clamp and the dead Battery.
4. Position the new Battery.
5. Install the Battery Clamp and secure with the Bolts and Locknuts using two 7/16" Wrenches.
6. Attach the Battery Terminals. Green Wire to negative black Terminal and Red Wire to positive red Terminal.

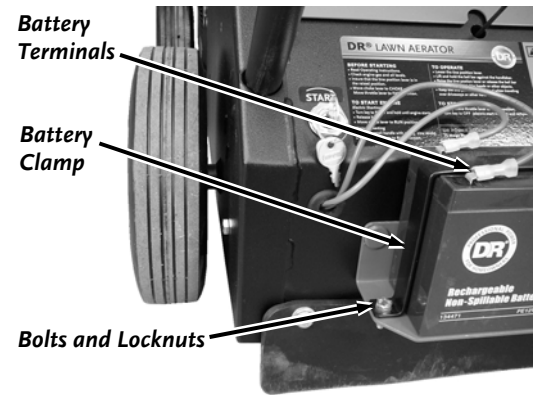


Figure 29

## Disposing of the Battery Responsibly (Electric-Start Models)

The Battery is a sealed lead-acid Battery. Recycle or dispose of it in an environmentally sound way.

- Do not dispose of a lead-acid Battery in a fire; the Battery may explode or leak.
- Do not dispose of a lead-acid Battery in your regular, household trash. Law in most areas prohibits incinerating, disposing in a landfill, or mixing a sealed lead-acid Battery with household trash.

## 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 Web site of Earth 911 for more information [[www.earth911.org](http://www.earth911.org)]. Once there, 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](http://www.inmetco.com) and click Services; or contact them at:

INMETCO  
PO Box 720  
245 Portersville Road  
Ellwood City, PA 16117  
(724) 758-2825; fax (724) 758-2845

To learn more about hazardous waste recycling, visit the Web site for Battery Council International [[www.batterycouncil.org](http://www.batterycouncil.org)] or for the Environmental Protection Agency [[www.epa.gov](http://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](http://www.DRpower.com) or call toll-free 1-800-DR-OWNER (376-9637) for support.

### **WARNING**

Shut down the engine, remove the spark plug wire and wait 5 minutes before performing any maintenance procedure or inspection on the DR LAWN AERATOR.

### Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>Recoil will not pull out or is difficult to pull.</i>	<ul style="list-style-type: none"> <li>⇒ Check the Engine oil level, the Engine may be seized. See your engine operator's manual.</li> <li>⇒ 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.</li> <li>⇒ The Recoil may be broken or jammed. Visit our website at <a href="http://www.DRpower.com">www.DRpower.com</a>.</li> </ul>
<p><i>The Engine won't start manually.</i></p> <p><i>(Please refer to the Engine Operator's Manual for engine-specific procedures.)</i></p>	<ul style="list-style-type: none"> <li>⇒ Check that the Spark Plug Wire is attached.</li> <li>⇒ Check the oil and gas level. See your engine operator's manual.</li> <li>⇒ You should be using fresh, clean gas. If the gas is old, change it. Use a fuel stabilizer if you keep gas longer than one month.</li> <li>⇒ Check the Throttle adjustment and travel. See your engine operator's manual.</li> <li>⇒ The Spark Plug should be clean. If the Spark Plug is dirty or cracked, change it. 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 reinstall it.</li> <li>⇒ Make sure that the Fuel Shut-Off is in the ON position.</li> <li>⇒ Make sure the Engine On/Off Switch is in the On ("I") position.</li> <li>⇒ If the Engine still won't start, visit us at <a href="http://www.DRpower.com">www.DRpower.com</a>.</li> </ul>
<p><i>The Engine won't start using Electric-Start.</i></p> <p><i>(Please refer to the Engine Operator's Manual for engine-specific procedures.)</i></p>	<ul style="list-style-type: none"> <li>⇒ Check the previous section (Manual Starting) for possible causes.</li> <li>⇒ Check the wire connections—especially the ground connection, the green wire coming from the Battery, where it connects to the Engine.</li> <li>⇒ The Battery should be charged. Check the voltage yourself or at a gas station. If it's low, charge it with a 12-volt, 1 to 2 Amp trickle charger. If you don't use your machine for at least 45 minutes at a time, the Battery may need to be periodically charged. See the Battery Care section in Chapter 4.</li> <li>⇒ If your Battery is charged and the Engine still won't start, visit us at <a href="http://www.DRpower.com">www.DRpower.com</a>.</li> </ul>
<p><i>The Engine lacks power or is not running smoothly.</i></p> <p><i>(Please refer to the Engine Operator's Manual for engine-specific procedures.)</i></p>	<ul style="list-style-type: none"> <li>⇒ Check the Throttle travel. See your engine operator's manual.</li> <li>⇒ The Choke should be pushed all the way to the left ("RUN"). See your engine operator's manual.</li> <li>⇒ Check to see if the Air Filter is clean. If it's dirty, change it following the procedure in the Engine Operator's Manual.</li> <li>⇒ The Spark Plug should be clean. If the Spark Plug is dirty or cracked, change it. 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.</li> <li>⇒ You should be using fresh, clean gas. If the gas is old, change it. Use a fuel stabilizer if you keep gas longer than one month.</li> <li>⇒ Check and make sure the Engine has the right amount of clean oil. If it's dirty, change it following the procedure in your engine operator's manual.</li> <li>⇒ If your Engine still lacks power, visit us at <a href="http://www.DRpower.com">www.DRpower.com</a>.</li> </ul>

## Troubleshooting Table (Continued)

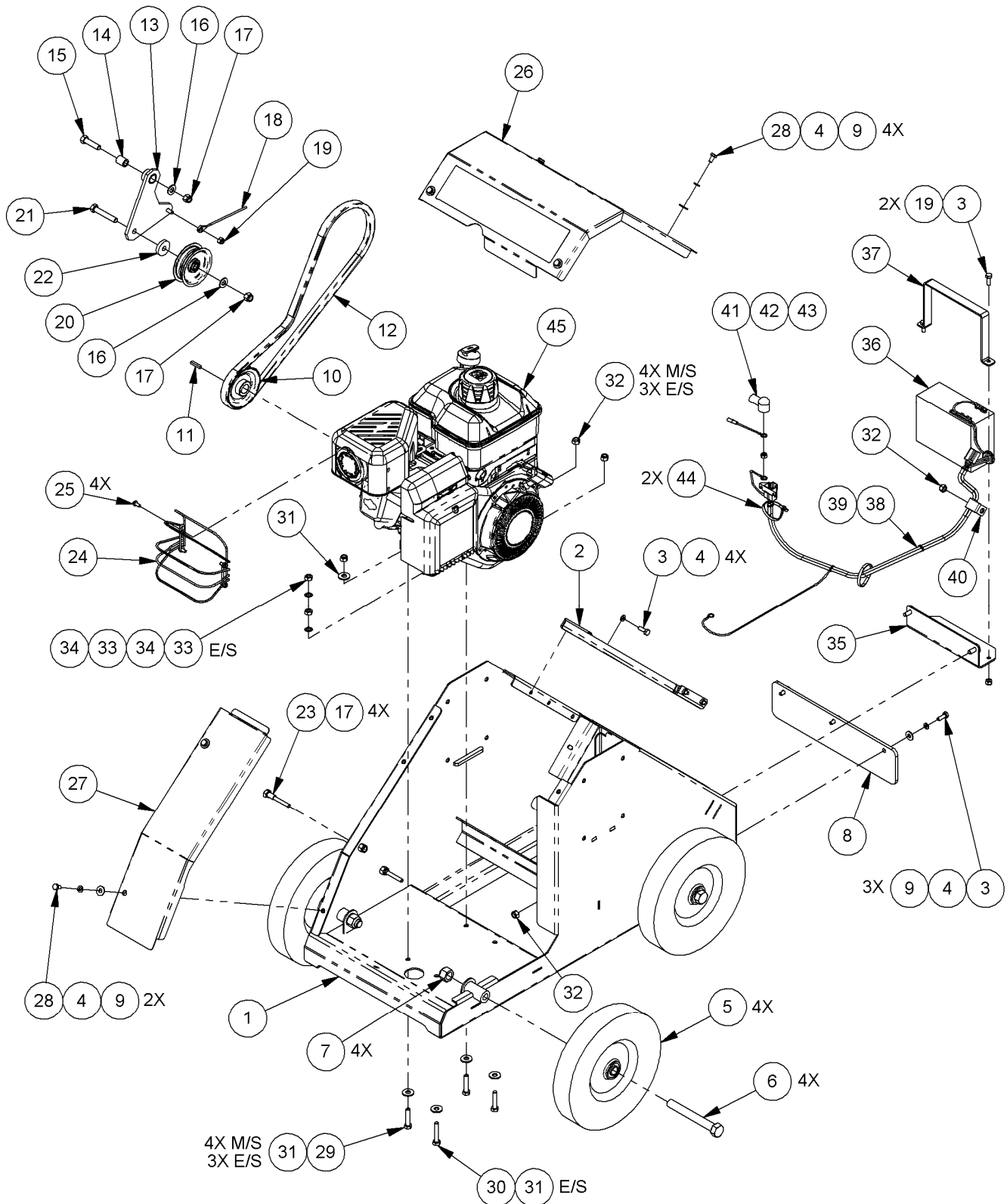
### **WARNING**

Shut down the engine, remove the spark plug wire and wait 5 minutes before performing any maintenance procedure or inspection on the LAWN AERATOR.

<b>SYMPTOM</b>	<b>POSSIBLE CAUSE</b>
<i>Engine smokes.</i>	<ul style="list-style-type: none"> <li>⇒ Check the oil level and adjust as needed.</li> <li>⇒ You may be operating the machine on too great an incline. Do not operate on slopes greater than 15 degrees.</li> <li>⇒ Check the Air Filter and clean or replace if needed.</li> <li>⇒ You may be using the wrong oil—too light for the temperature. Refer to your Engine Operator’s Manual for detailed information.</li> <li>⇒ Clean the Engine cooling fins and the carburetor housing if they are dirty.</li> <li>⇒ If the Engine still smokes, visit us at <a href="http://www.DRpower.com">www.DRpower.com</a>.</li> </ul>
<i>The Engine runs well but the Tines won’t move.</i>	<ul style="list-style-type: none"> <li>⇒ Check the Belt tension. See “Adjusting the Drive Cable” section on page 16.</li> <li>⇒ Check the Belt for wear. Replace the Belt if needed.</li> <li>⇒ Confirm there is nothing wedged/ wrapped around Tine assembly or Pulleys.</li> </ul>
<i>Vibrations higher than normal.</i>	<ul style="list-style-type: none"> <li>⇒ Check for loose hardware and tighten as needed.</li> <li>⇒ Lawn conditions may be too hard. Try softening the lawn by watering and aerating the next day.</li> <li>⇒ Check the Tines for wear. Replace as needed.</li> <li>⇒ The Tines may be plugged with hardened soil from the last use. Clean the Tines with a screwdriver.</li> </ul>
<i>Unit does not self propel.</i>	<ul style="list-style-type: none"> <li>⇒ Lawn conditions may be too wet so that Tines just scoop mud. Let lawn dry before aerating.</li> <li>⇒ Lawn conditions may be too hard so that Tines do not penetrate. Try softening the lawn by watering and aerating the next day.</li> <li>⇒ You may be traveling up too steep an incline.</li> </ul>
<i>Cores are short or not nicely formed.</i>	<ul style="list-style-type: none"> <li>⇒ Lawn conditions may be too hard so that Tines do not penetrate. Try softening the lawn by watering and aerating the next day.</li> <li>⇒ Lawn conditions may be too wet so that Tines just scoop mud. Let lawn dry before aerating.</li> </ul>



**Schematic – FRAME AND DRIVE ASSEMBLY**



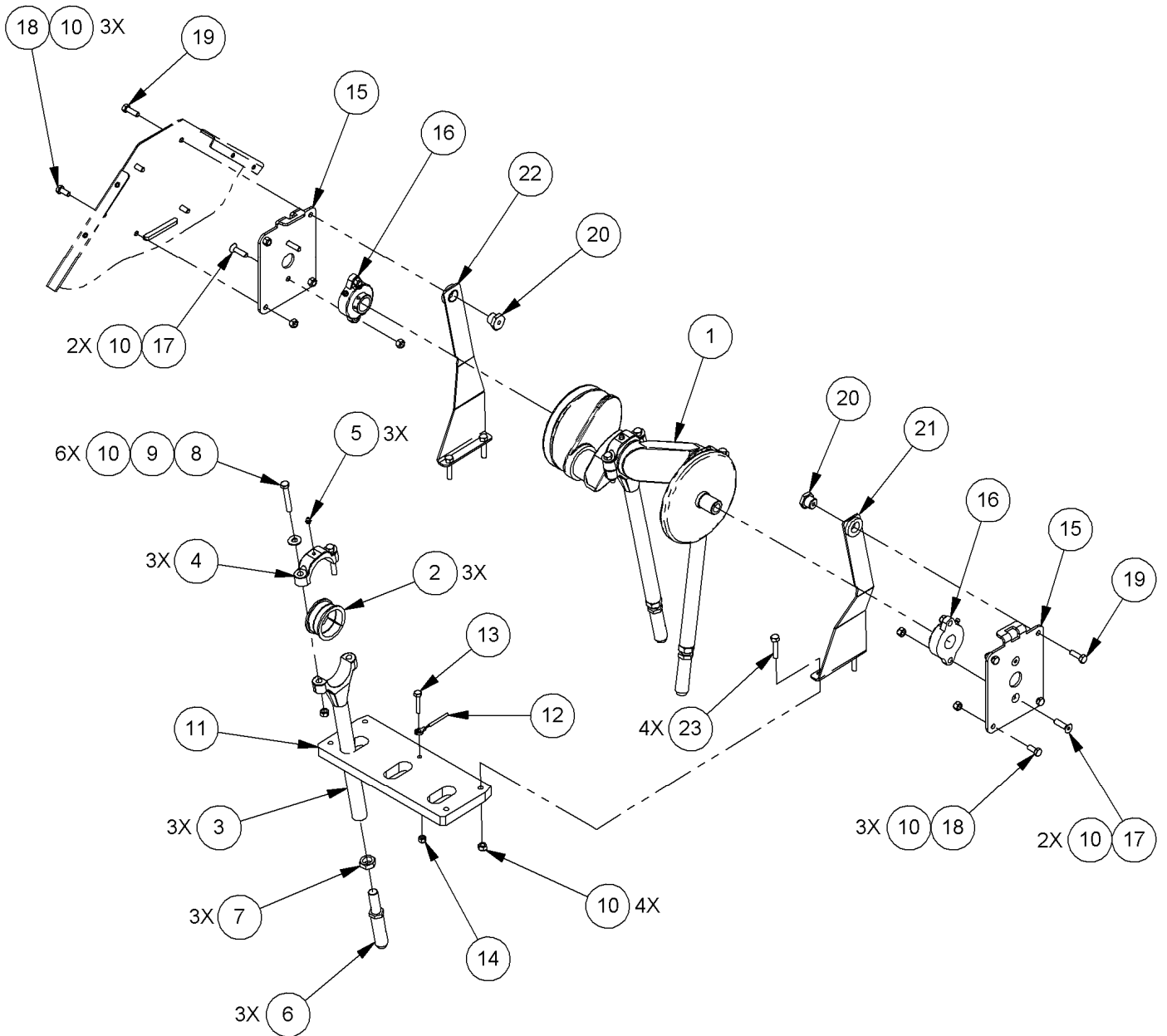
## Parts List – CRANKSHAFT AND TINE ASSEMBLY

**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	27646	Crankshaft	13	10145	Bolt, HCS, 1/4-20 X 1-1/2", GR5, ZP
2	27655	Bearing, Nylon, Split	14	11073	Nut, Nylon Lock, 1/4-20, ZP
3	27651	Rod, Tine	15	27643	Plate, Bearing
4	27652	Cap, Tine Rod	16	27644	Bearing, Flange, 1" Bore
5	10189	Grease Fitting 1/4-28, Straight	17	27645	Bolt, FHCS, 5/16-18 X 1.25", Alloy
6	27653	Tine, 5/8"	18	12321	Bolt, HCS, 5/16-18 X 3/4", GR5, ZP
7	27654	Nut, Jam, 5/8-11, GR5, ZP	19	11158	Bolt, HCS, 5/16-18 X 1", ZP
8	10147	Bolt, HCS, 5/16-18 X 2-1/4", GR5, ZP	20	27650	Nut, Pivot
9	11241	Washer, Flat, 5/16", USS, ZP	21	27647	Arm, Tine Position, LH
10	11076	Nut, Nylon Lock, 5/16-18, ZP	22	27648	Arm, Tine Position, RH
11	27649	Plate, Tine Position	23	13443	Bolt, HCS, 5/16-18 X 1-1/2", GR5, ZP
12	27669	Cable, Tine Position			

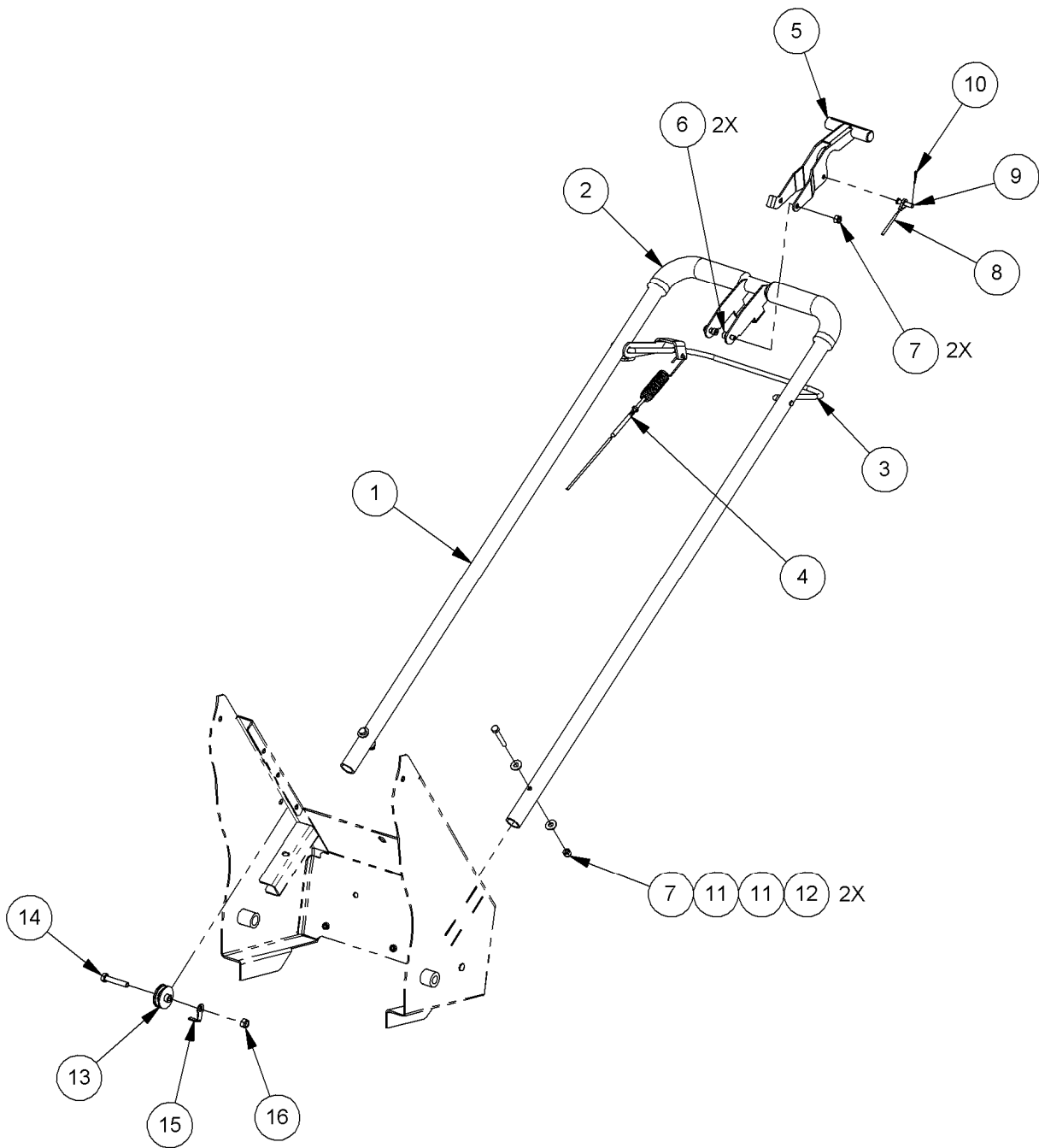


**Schematic – CRANKSHAFT AND DRIVE ASSEMBLY**





**Schematic – HANDLEBAR ASSEMBLY**



## Daily Checklist for the DR LAWN AERATOR

To help maintain your DR LAWN AERATOR for optimum performance, we recommend you follow this checklist each time you use your DR LAWN AERATOR.

---

### WARNING

Before performing any maintenance procedure or inspection, stop the engine, wait five (5) minutes to allow all parts to cool. Disconnect the spark plug wire, keeping it away from the spark plug.

---

- [ ] Check the Engine Oil and Gas Tank level.
- [ ] Check that Engine is clean of debris.
- [ ] Check the general condition of the DR LAWN AERATOR, e.g.; nuts, bolts, welds, etc.
- [ ] Check Belt for wear and/or stretching.
- [ ] Check the Tines for wear and damage.
- [ ] Check the Frame for wear and damage.
- [ ] Check the Debris Guard for wear and damage.
- [ ] Remove any debris wrapped around the Wheels and Tine assembly.

## End of Season and Storage

---

### WARNING

Before performing any maintenance procedure or inspection, stop the engine, wait five (5) 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 tines for wear and damage.
- Remove any soil still in the Tines.
- Remove any debris wrapped around the Wheels and Tine assembly
- If your DR LAWN AERATOR 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.
- 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.
- Inspect moving parts and the Drive Belt for damage and wear; replace if necessary.
- 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, or the Electric Starter (for Electric Start Machines). This will coat the piston and seat the valves to prevent moisture buildup.
- If possible, store the DR LAWN AERATOR in a dry, protected place. If it is necessary to store the DR LAWN AERATOR outside, cover it with a protective material (especially the Engine). For Electric Start Model, store the machine in a dry environment with temperatures between +40°F (5°C) and +95°F (+35°C). Make sure the storage temperatures will never be outside of these limits. The lower the storage temperature is within the range, the better as the battery will discharge more slowly at low temperatures. If it is necessary to store the DR LAWN AERATOR outside make sure to disconnect the battery and store it in an environment as listed above. Make sure the disconnected battery terminals are not resting on any surface that may be prone to collecting water, snow or any other liquid as this may cause damage to the terminals and to the battery when reconnected.



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75 MEIGS ROAD, P.O. BOX 25, VERGENNES, VERMONT 05491