

DR® XD17 STUMP GRINDER

SAFETY & OPERATING INSTRUCTIONS



Serial No. _____

Order No. _____

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

WARNING

Read and understand this manual and all instructions before operating the DR STUMP GRINDER.

Table of Contents

Chapter 1: General Safety Rules..... 3
Chapter 2: Setting Up the DR XD17 STUMP GRINDER 7
Chapter 3: Operating the DR XD17 STUMP GRINDER..... 11
Chapter 4: Maintaining the DR XD17 STUMP GRINDER..... 14
Chapter 5: Troubleshooting 21
Chapter 6: Parts Lists and Schematic Diagrams 24

Conventions used in this manual

WARNING

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

CAUTION

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

NOTICE

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

| | |
|--|----------|
| DR POWER EQUIPMENT | |
| MODEL MODELO MODELE | XXXXXXXX |
| SERIAL NO NU DE SERIE No DE SERIE | XXXXXXXX |
| POWER (KW) | XXXXXXXX |
| WEIGHT (KG) | XXXXXXXX |
| ITEM# | XXXXXXXX |
| MANUF DATE | XXXXXXXX |
| MANF PLANT | XXXX |
| DR POWER EQUIPMENT 800 HINESBURG ROAD SOUTH BURLINGTON, VT 05403 Country of Origin XXXXX XXXXX | |

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.

California Proposition 65

 **WARNING**
CANCER AND REPRODUCTIVE HARM - www.P65Warnings.ca.gov

Chapter 1: General Safety Rules

WARNING

Read this safety & operating Instructions manual before you use the DR XD17 STUMP GRINDER. Become familiar with the operation and service recommendations to ensure the best performance from your machine. If you have any questions or need assistance, please contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637) and one of our Technical Support Representatives will be happy to help you.

Labels

Your XD17 STUMP GRINDER 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 XD17 STUMP GRINDER as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.



#250441



#137581



#188871



#A0009577035



#A009577028



#A0009577032



#A0009577029



#10000042683



#A0009577029

| | | |
|--|--|--|
| CUTTING HEAD | HANDLEBAR ADJUST | Prior to Engine Start Up: <ul style="list-style-type: none">• Set throttle lever to idle • Lock cutting head• Set both parking brakes After Engine Start Up: <ul style="list-style-type: none">• With parking brakes engaged, bring engine to full throttle  to engage cutting head• Unlock cutting head to sweep through the stump Lock cutting head when not in use. |
|  UNLOCK |  | |
|  LOCK |  SCAN CODE for Product Support | |

#A009577026

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. 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 XD17 STUMP GRINDER 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 XD17 STUMP GRINDER. Be sure your gloves fit properly and do not have loose cuffs or drawstrings.
 - Safety-toe shoes with non-slip treads are required when operating the XD17 STUMP GRINDER. Do not use the machine while barefoot, wearing open-toed sandals, or wearing standard footwear that lacks protective reinforcement.
 - Wear long pants while operating the XD17 STUMP GRINDER.
 - Use ear protectors or ear plugs with a Noise Reduction Rating of 20 decibels to protect your hearing.
 - Keep bystanders at least 50 feet away from your work area at all times. 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 grinding 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 XD17 STUMP GRINDER.
-

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 and keep away from heat and open flame, and out of the reach of children.
 - Replace rubber fuel lines and grommets when worn or damaged.
 - Fill the gasoline tank outdoors with the engine off and allow the engine to cool 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 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, disconnect the spark plug wire, keeping it away from the spark plug to prevent accidental starting, 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.
-

General Safety

WARNING

Operating this Stump Grinder 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 Stump Grinder:

- Your Stump Grinder is a powerful tool, not a plaything. Exercise extreme caution at all times. The machine is designed to grind stumps. Do not use it for any other purpose.
 - Know how to stop the Stump Grinder quickly; see "Stopping the Engine" in Chapter 3.
-

General Safety (continued)

WARNING

- 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 Stump Grinder. 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 Stump Grinder 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 damage. 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.
 - Before performing any maintenance or inspection procedure on the Stump Grinder, release the Operator Presence Bail Bar and then turn the ignition switch to "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 Stump Grinder. Allow only responsible individuals who are familiar with these rules of safe operation to use your machine.
 - Never overload or attempt to grind material beyond the manufacturer's recommendation. Personal injury or damage to the machine could result.
 - While using the Stump Grinder, 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.
 - Check that the ground is free of foreign objects, such as electrical cables, barbed wire, or any underground utilities.
 - Keep all nuts and bolts tight and keep the equipment in good operating condition.
-

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® XD17 STUMP GRINDERS 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 XD17 STUMP GRINDER in a safe manner. Contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.

Chapter 2: Setting Up The DR XD17 STUMP GRINDER

It may be helpful to familiarize yourself with the controls and features of your XD17 STUMP GRINDER 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.

DR XD17 STUMP GRINDER Controls and Features

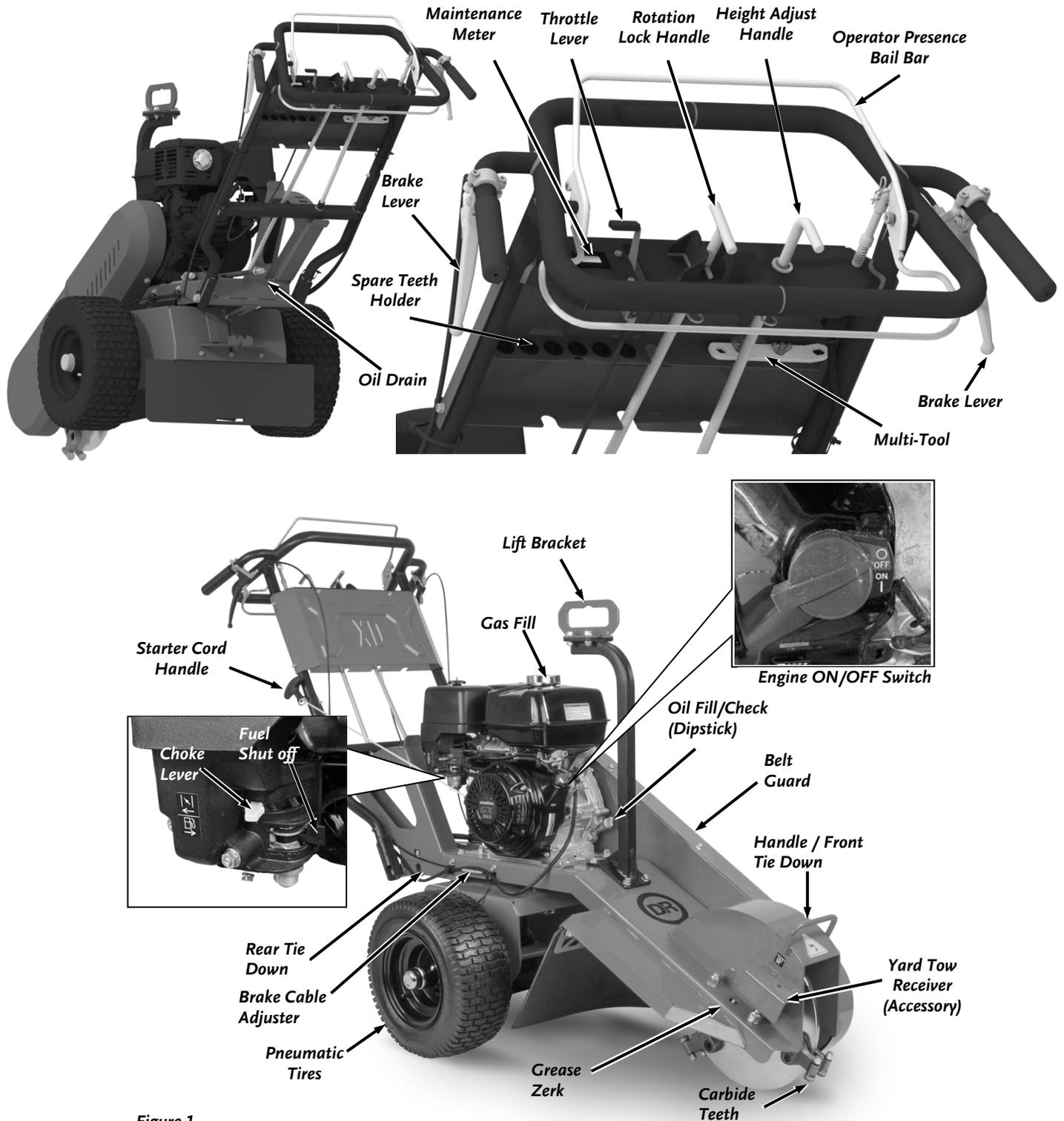


Figure 1

Specifications

| DR XD17 STUMP GRINDER | |
|------------------------------|--|
| Engine | Honda GX390. Refer to the Engine Owner's Manual full specifications |
| Horse Power | 11.7 HP |
| Oil Capacity | 37 OZ (1.1 Liter). Refer to fill instructions on page 9 of this manual |
| Fuel Tank Capacity | 1.6 Gal (6.1 Liter). Refer to fill instructions on page 9 of this manual |
| Tire Size | 16 x 6.5 x 8 Pneumatic Turf Wheel |
| Handlebars | 6 Position, Height adjustable; Storage (vertical) |
| Brake | 2 Disc brakes, cable actuated |
| Clutch | Centrifugal |
| Frame | Welded steel construction |
| Belt | PN: A0006262388 (Matched set of belts PIX B78K-2) |
| Cutting Head | Rotary 6 Tooth, 17" Diameter wheel |
| Cutting Teeth | GreenTeeth 900 Series; Two-sided Replaceable Carbide Tipped |
| Spare Tooth Kit | Optional Kit Available PN: A0010397673 |
| Machine Dimensions | 34" W x 65" L x 43" - 56" H |
| Weight | 375 lbs |

Compare the contents with the "Parts Supplied" list below. If you have any questions, please contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.

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 (Tilt machine forward as needed).
 - Short Dipstick: The dipstick should not be screwed down to ensure an accurate oil level reading.

| | |
|-------------------|---|
| Engine Oil | SAE 10W-30: 10°F - 105°F (Manufacturer Recommended); SAE 5W-30: 10°F – 105°F; SAE 30: above 50°F - 105°F; |
| Fuel | Unleaded gasoline (Octane 86 or higher) |

Note: Please refer to your Engine Owner's Manual for detailed oil information.

- Position the machine so the Frame and Engine are level. The engine has an Oil Fill in the Front (**Figure 2**) and Rear (**Figure 3**) of the machine. Either can be used to fill the oil.
- Remove the Oil Fill/Dipstick in the Front of Rear of the machine. The Front of the machine is more accessible (**Figure 2**). Clean the end of the Dipstick with a rag.

NOTICE

The Frame and Engine must be level to get an accurate reading when adjusting the oil level. Ensure the head is positioned on the Cutter Head wheel and not on a set of teeth, causing the machine to be tipped back.

- Machines are shipped without oil. Initially add 8 to 10 oz. of the oil recommended by the Engine Manufacturer. Wait one minute for the oil to settle.
- Insert the Oil Fill/Dipstick into the Oil Filler Neck as shown in **Figure 2**, but do not screw it in, then remove it to check the oil level.
- Continue adding a few ounces of oil at a time, rechecking the Dipstick until the oil reaches a mark between the Full and Low indication. Be careful not to overfill.
- Replace the Oil Fill/Dipstick and screw all the way down when full.
- With the engine OFF, remove the Gas Fill Cap and fill the Gas Tank with fresh, unleaded gas (with a minimum of 86 Octane) to the maximum fuel level limit of the Fuel Tank (**Figure 4**). Be careful not to overfill. Reinstall the Gas Fill Cap before starting the engine. See your Engine Owner'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.

⚠ WARNING

Remove any blocking used to level the Engine before operating the DR Stump Grinder.

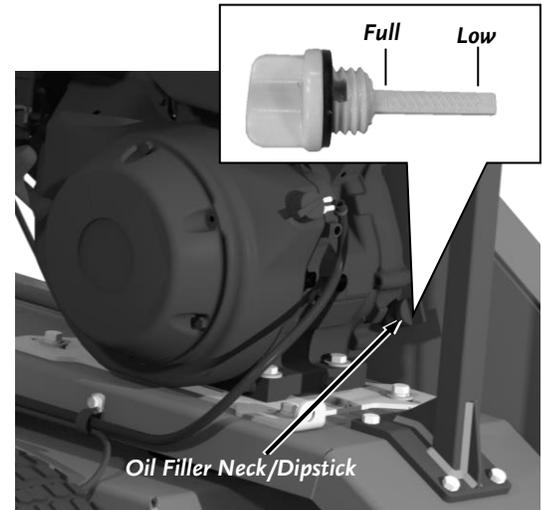


Figure 2

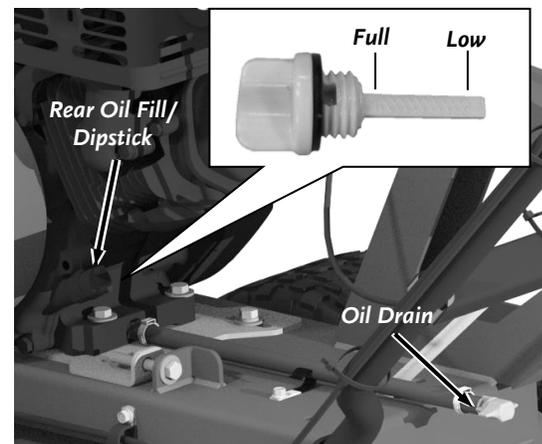


Figure 3

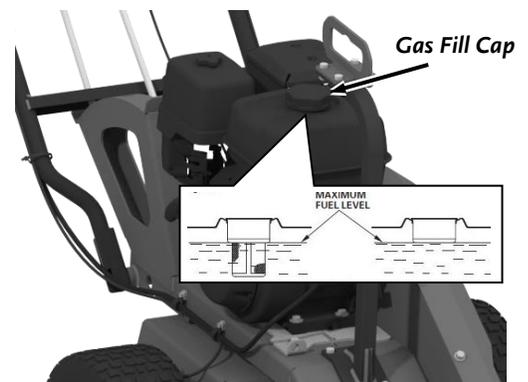


Figure 4

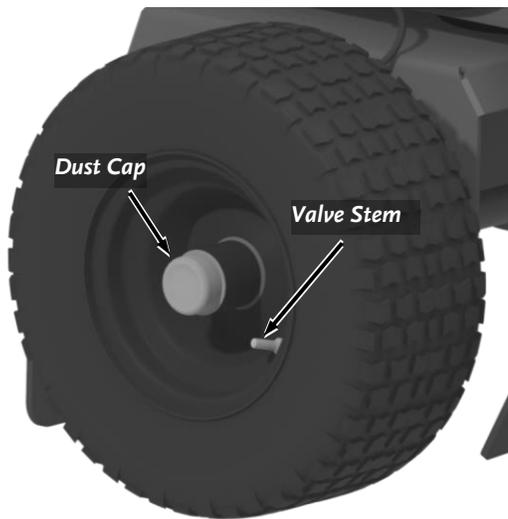


Figure 5

Check the Tire Pressure

Tools Needed:

- Tire Pressure Gauge
- Air Compressor

1. Remove the Valve Stem Protective Cap (**Figure 5**) and check the tire pressure with a Tire Pressure Gauge.
2. For best performance, 18 PSI of tire pressure is recommended.
3. Compare the tire pressure reading from step 1 with the recommended tire pressure.
4. If the pressure is too low, add air through the Valve Stem with an air hose.
5. Replace the Valve Stem Protective Cap when finished.

! WARNING

Do not over inflate the tires. Do not exceed the manufacturers recommended pressure found on the tires.

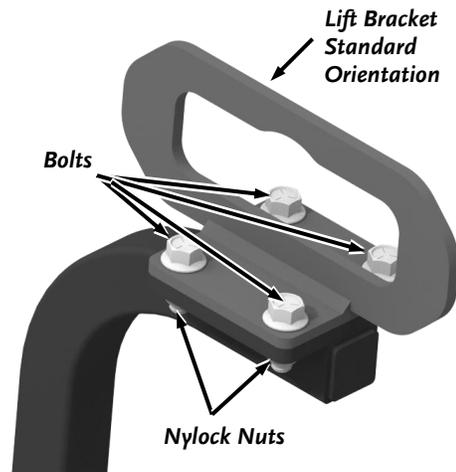


Figure 6

Orient Lift Bracket as Desired

Supplies needed:

- 9/16" Socket
- 9/16" Wrench
- Torque Wrench

Note: The machine comes with the Lift Bracket in the Standard Orientation (**Figure 6**). If desired, this bracket can be rotated 90 degrees (**Figure 7**).

1. If rotating the Lift Bracket 90 degrees is desired. Remove the four Bolts securing the Lift Bracket to the Lift Tube using a 9/16" Wrench and 9/16" Socket.
2. With the bolts removed, rotate the Lift Bracket 90 degrees.
3. Re-install the four Bolts and Nylock Nuts.
4. Torque each Bolt and Nut to 25 ft-lbs using a Torque Wrench

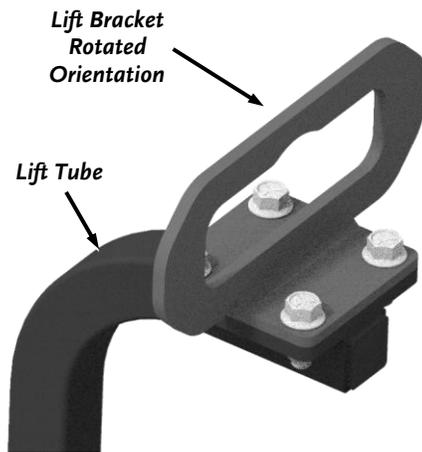


Figure 7

! WARNING

Improper Torque can lead to a loose connection between the Lift Bracket and the Lift Tube.

Chapter 3: Operating The DR XD17 STUMP GRINDER

It may be helpful to better familiarize yourself with the features of your XD17 STUMP GRINDER by reviewing **Figure 1** in Chapter 2 before beginning the steps outlined in this chapter.

! WARNING

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

Control Levers

Familiarize yourself with all of the Control Levers and their functions before operating the XD17 STUMP GRINDER (**Figure 8**).

Starting the Engine

1. Make sure the Fuel Shut Off is in the “OPEN” position and the Engine Switch is set to ON (**Figure 9**).
2. Move the Choke Lever to the Left to the choke position (leave in the Run position to the Right if the engine is already warm **Figure 9**).

Note: The Operator Presence Bail Bar must be held down for the Engine to start and continue running. If you need to stop the machine quickly for any reason, let go of the Operator Presence Bail Bar.

3. Set the Throttle Lever to the Idle Position, designated by the “Turtle” icon (**Figure 10**).

! WARNING

Always ensure Throttle Lever is set to the Idle Position before startup. The Cutter Head will engage upon startup if Throttle Lever is not in the Idle Position.

4. Hold down the Operator Presence Bail Bar and grasp the Starter Cord Handle and slowly pull until you feel resistance, then pull the cord with a smooth accelerating motion to start the engine.
5. After the Engine starts when the Choke is on, the Engine will soon begin to run rough. Adjust the Choke Lever until the engine runs smoother. Continue this process until the engine runs well with the Choke fully in the RUN position
6. When the Engine is warmed up and running smoothly, ensure that the Choke is fully in the Run position to the Right (**Figure 9**).

Stopping the Engine

1. Move the Throttle Control Lever to the Idle position, designated by the “Turtle” icon (**Figure 10**).
2. Release the Operator Presence Bail Bar to stop the Engine (**Figure 8**).
3. Move the Engine Switch to the OFF position.

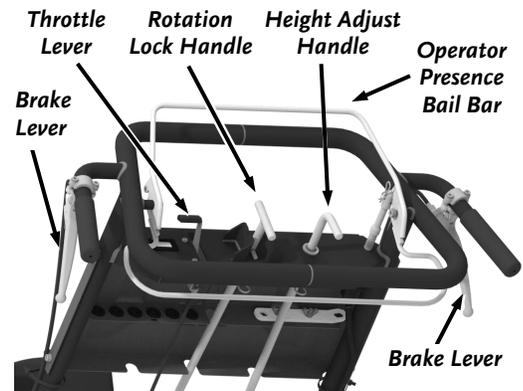


Figure 8

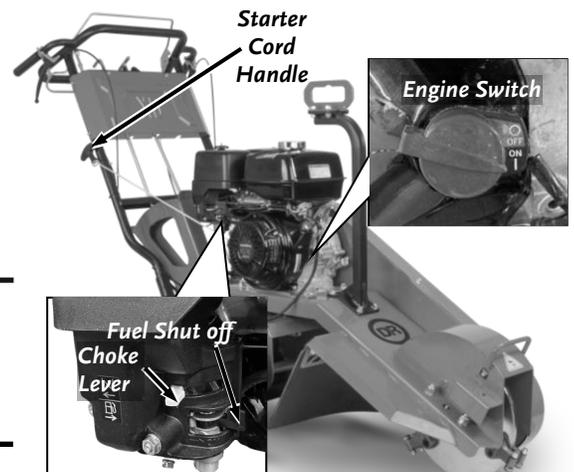


Figure 9

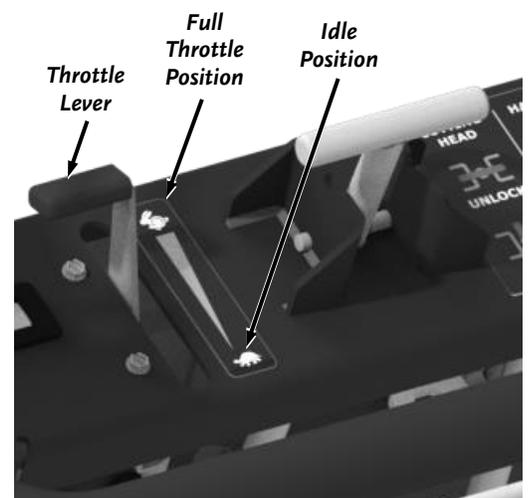


Figure 10

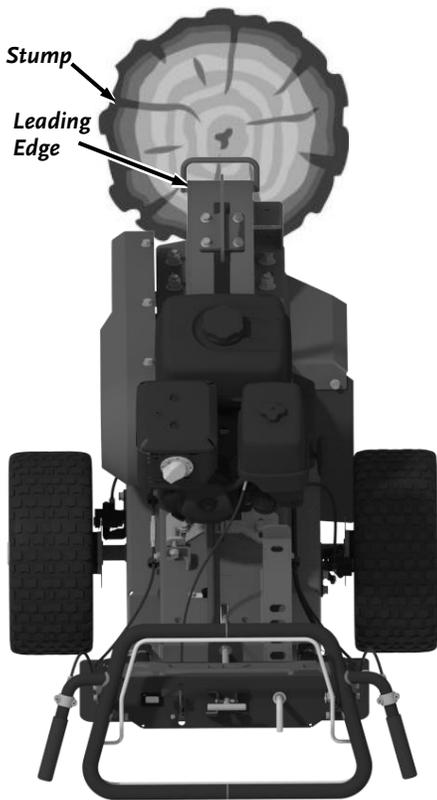


Figure 11

Before You Begin

- Dig away the earth and remove any stones near the tree stump that may interfere with your work.
- Check that the ground is free of foreign objects, such as electrical cables, barbed wire, etc.
- Cut the stump as close to the ground as possible using a Chainsaw before using the XD17 STUMP GRINDER.

Grinding Stumps

These grinding instructions are basic guidelines. Try different techniques in direction and depth of cut to determine what works best for your situation.

⚠ WARNING

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

NOTICE

Always make sure the Teeth are not in contact with anything before increasing the Throttle Lever above Idle. The Clutch will be damaged if the Teeth are not free to turn as you advance the Throttle Lever and increase Engine speed.

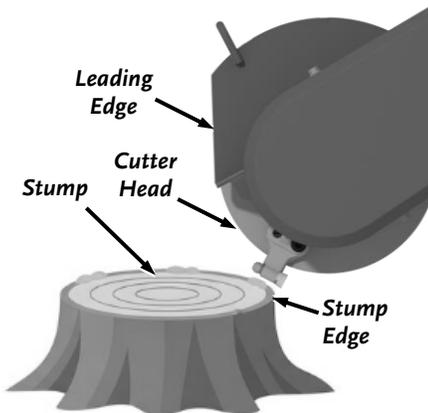


Figure 12

1. Start the Engine as per the “Starting the Engine” section in Chapter 3
2. Allow the Engine to warm up at the Idle Position (Turtle Icon) for a few minutes.
3. Move the Stump Grinder into position with the Cutter Head centered to the Stump and the Leading Edge a few inches beyond the Stump Edge closest to you (**Figure 11 and 12**).
4. Lock the Brakes by squeezing the Brake Levers (**Figure 13**).
5. With the Brakes Locked, move the Throttle Lever to the Full Throttle position (this will engage the Cutter Head Rotation). Let the Cutter Head come up to speed.

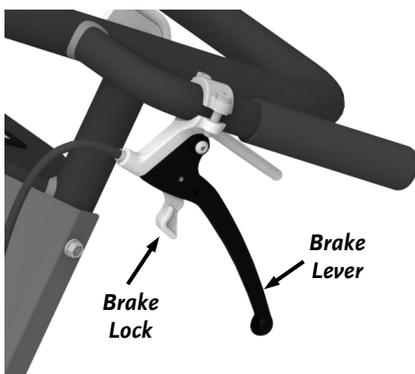


Figure 13

6. Pull up on the Rotation Lock Handle and rotate it 90 degrees, then release it into the detent position. This will allow the top half of the machine to rotate in an Unlocked Position, while the Wheels remain fixed (**Figure 14**).
7. Lower the Cutter Head approximately 1/2" to 1" into the front-top corner of the stump and slowly swing the Cutter Head left and right, controlling each sweep with both hands fixed on the machine (**Figure 15**).
8. When you have finished removing material with the first few passes through the Stump, throttle the machine down to the Idle Position (Turtle). Release the Operator Presence Bail Bar and wait for the the Cutter Head to stop rotating.

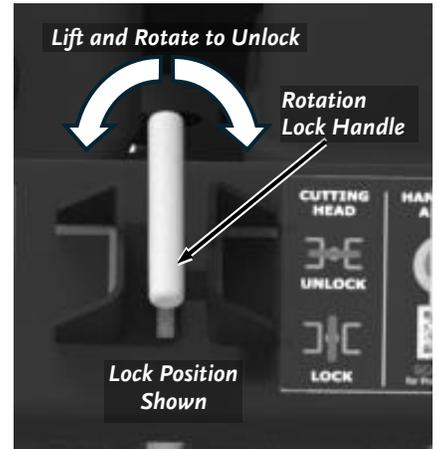


Figure 14

NOTICE

If the Engine bogs down, lift the Cutter Head away from the stump to allow the Cutter Head to come back up to speed before cutting further.

9. Pull up on the Rotation Lock Handle and rotate it back 90 degrees and release it back into the Lock Position (**Figure 14**).
10. Unlock the Brakes by pulling back on the Brake Locks and releasing the Brake Levers (**Figure 13**).
11. Reposition the machine to engage more of the Stump. Ensuring the Leading Edge is only a few inches beyond the new Stump Edge.
12. With the machine repositioned, repeat Steps 4 through 7.
13. Continue grinding and advancing until the top level of stump is fully removed, making sure not to cut the stump deeper than ground level during this first stage.
14. Move the Throttle Lever down to the Idle Position and release the Operator Presence Bail Bar to stop the Engine. Set the Rotation Lock Handle to the Lock Position. Wait for the Cutter Head to stop rotating.
15. Release the Brakes so you can pull the machine away from the stump and remove the chips/debris and any dirt away from the stump.
16. Repeat steps 1 through 13 until the stump is removed to the desired depth.

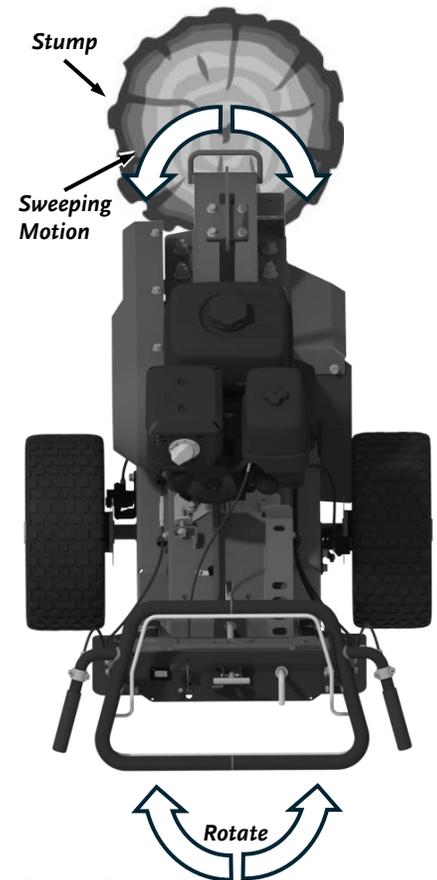


Figure 15

Chapter 4: Maintaining The DR XD17 STUMP GRINDER

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 (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 25 HOURS | EVERY 50 HOURS | EVERY 100 HOURS | EVERY YEAR OR 300 |
|--|--------------------------------|----------------|----------------|-----------------|-------------------|
| Check Engine Oil Level | ▲ | | | | |
| Check General Equipment Condition | ▲ | | | | |
| Check Cutting Teeth (Are they dull or damaged?) | ▲ | | | | |
| Clean Engine Exterior & Cooling Fins | ▲ | | | | |
| Remove debris around Cutter Head & Bearings | ▲ | | | | |
| Check Brake Cable Tension | ▲ | | | | |
| Rotate or Replace Cutting Teeth (or sooner if dull or damaged) | | ▲ | | | |
| Check Cutter Head when Teeth are replaced | | ▲ | | | |
| Lubricate Cables (SAE 30 Oil) | | ▲ | | | |
| Check Tire Pressure | | ▲ | | | |
| Grease Cutter Head Bearings | | ▲ | | | |
| Clean Engine Air Filter | | ▲ | | | |
| Replace Air Filter | | | | | ▲ |
| Check Belts (Replace if stretched or worn) | Re-tension after 8 hr break in | | ▲ | | |
| Clean Fuel Tank Filter | | | | ▲ | |
| Change Engine Oil | 1 st time 20 hours | | | ▲ or 6 mo. | |
| Replace Spark Plug | | | | | ▲ |

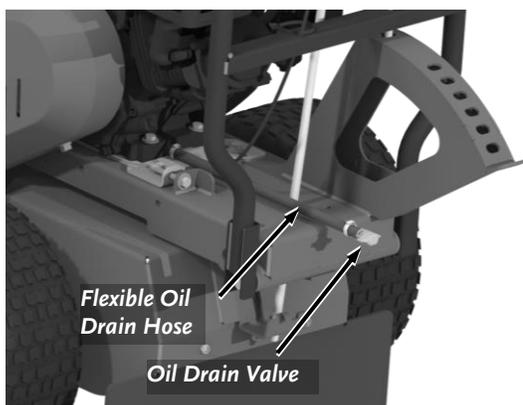


Figure 16

Removing and Replacing the Engine Oil

Tools and Supplies Needed:

- Rags
- Approved Container (for waste oil)
- Small funnel
- Engine Oil (see your Engine Manual for Oil specifications)

1. Position the machine so the Frame and Engine are level and place a Waste Oil Container under the Oil Drain Valve (**Figure 16**).
2. Open the Oil Drain Valve at the end of the Flexible Oil Drain Hose. Drain the Oil into an approved Container.
3. Refer to Chapter 2 for instructions on adding new Oil.

Replacing and Tensioning the Belt

Tools and Supplies needed:

- 9/16" Wrench
- New DR Drive Belt (see Chapter 6 for part numbers)
- 9/16" Hex Socket
- Torque Wrench
- Gloves

1. Allow the machine to cool down before servicing as the Belts and Clutch may be hot.
2. Remove the six Bolts securing the Belt Cover using a 9/16" Wrench. Set aside the Belt Cover to expose the Belts (**Figure 17**).
3. Loosen the Tensioner Bolt using a 9/16" Wrench until there are no more Exposed Threads past the Engine Adapter Plate (**Figure 18**).
4. Loosen the four Engine Adapter Plate Bolts using a 9/16" Wrench. There are two Bolts in the front of the Engine and two Bolts behind the Engine (**Figure 18**).
5. With the four Engine Adapter Plate Bolts loose, push or pull the Engine towards the Cutter Head to provide slack on the Belts.
6. Remove the Belts by rotating them around the Cutter Head Pulley and off from the Clutch.
7. Install a new belt around the Clutch and bring the Belt down to the Cutter Head Pulley. Start the Belt over the top of the Cutting Head Pulley and rotate the Cutting Head to roll the Belt onto the Pulley.

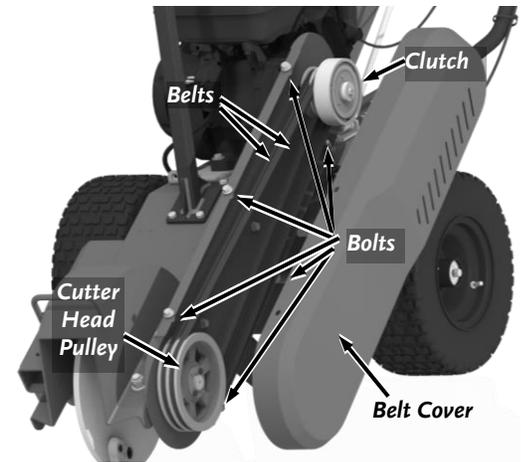


Figure 17

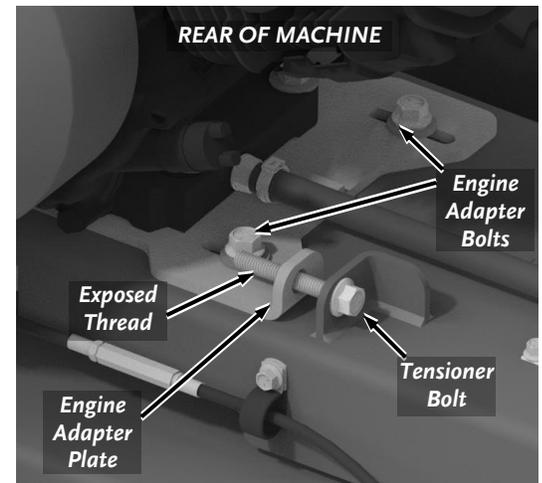


Figure 18

WARNING

Avoid pinching your fingers when rotating the Cutter Head Pulley.

8. Tension both Belts by using a 9/16" wrench to tightening the Tensioner Bolt and pull the Engine back towards the Handlebars.
9. Place a Straight Edge along the Belt (over the Clutch and Cutter Head Pulley). Apply a 10lb Force in the center span one Belt at a time. Measure the Belt Deflection from the bottom of the Straight Edge to the top of the Belt with a tape measure (**Figure 19**).
10. The measurement should be approximately 1".
11. If the measurement is not correct, tighten or loosen the Tensioner Bolt as needed (**Figure 18**).
12. Repeat steps 10 through 12 until the proper Belt tensions are achieved.
13. When the Belt is properly tensioned, ensure that the four Engine Adapter Bolts are torqued to 31 ft-lbs.
14. Reinstall the Belt Cover.

Note: Check and re-tighten the Belts, as necessary, after an initial break-in period of eight hours.

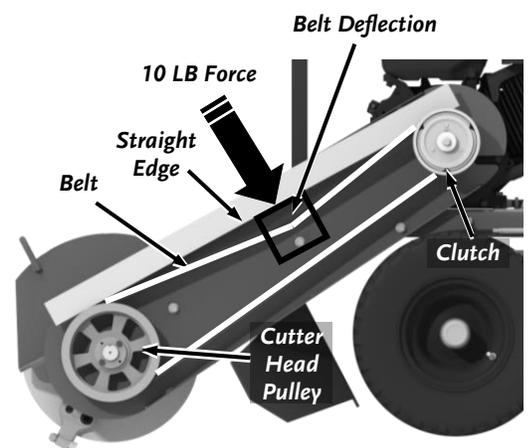


Figure 19

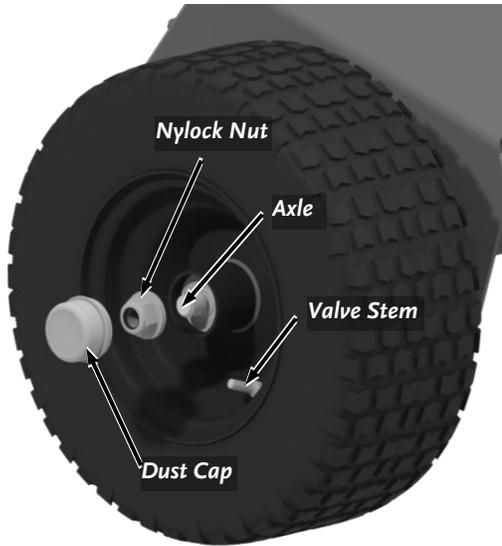


Figure 20

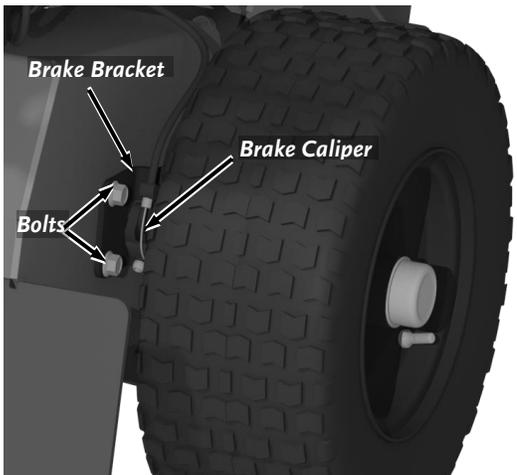


Figure 21

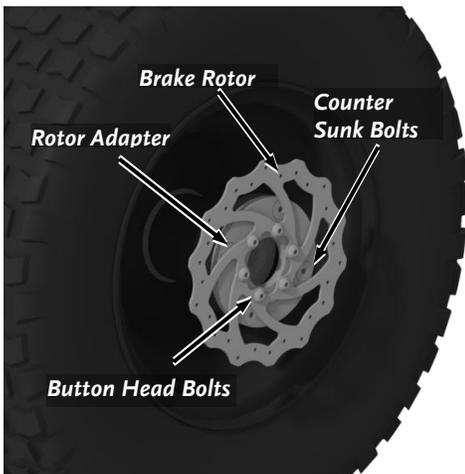


Figure 22

Replacing the Wheels

Tools and Supplies needed:

- Pry Bar
- Dead Blow Hammer
- 1-1/8" Socket and Ratchet
- Two 9/16" Wrenches
- 5/32" Allen Key
- Two 3/4-10 Nylock Nuts
- Four 3/8-16 Nylock Nuts
- Jack Stand or Blocks

1. With the Stump Grinder on the ground, remove the Dust Cap with a Pry Bar and a Dead Blow Hammer (**Figure 20**).
2. Loosen the Nylock Nut with a 1-1/8" Socket Head and Ratchet.
3. Block the Stump Grinder up so the Wheels are off the ground.
4. Disconnect the Brake Bracket from the Wheel Frame by removing the two Bolts and two Nylock Nuts with two 9/16" Wrenches (**Figure 21**). Discard both Nylock nuts.
5. Slide the Brake Bracket and Brake Caliper off the Brake Rotor.
6. Fully remove the Nylock Nut from the Wheel with a 1-1/8" Socket Head and Ratchet and discard.
7. With the Nylock Nut removed, the Wheel is now free and can be taken off the Axle.
8. Remove the Brake Rotor from the Rotor Adapter by removing the five Button Head Bolts using a 5/32" Allen Key (**Figure 22**).
9. Remove the Rotor Adapter from the Wheel by removing the four Counter Sunk Bolts using a 5/32" Allen Key.
10. Inspect the Brake Rotor and Rotor Adapter for any damage. Replace if necessary.
11. Re-install the Rotor Adapter and Brake Rotor onto the new Wheel using the hardware previously removed.
12. Re-install the new Wheel assembly onto the Axle and secure with a new Nylock Nut. Tighten using a 1-1/8" Socket and Ratchet. Re-install the Dust Cap.
13. Slide the Brake Bracket back over the Brake Rotor.
14. Secure the Brake Bracket to the Wheel Base with the two Bolts previously removed and two new 3/8-16 Nylock Nuts using two 9/16" Wrenches.
15. Confirm the Brakes are properly tensioned with the new Wheel Assembly. Refer to "Adjusting the Brakes" section of this manual.

Rotating the Teeth (from dull to sharp edge)

Tools and Supplies needed:

- 5/8" Socket
- Torque Wrench
- Dead Blow Hammer
- Gloves

CAUTION

Wear Gloves when working near the Teeth. Without Gloves your hands may get cut from the sharp edges.

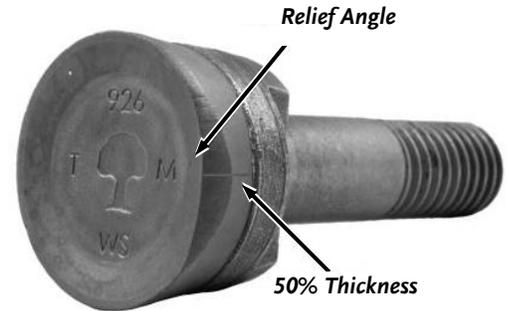


Figure 23

NOTICE

If you tip the machine back on the Handlebars (only recommended temporarily for service), make sure you turn off the fuel (see Figure 1). Never tip the machine back on the Handlebars for long periods or for storage. Oil will get into the Exhaust and (or) Engine if the machine is tipped completely back for long periods of time and could damage the Engine.

Maintaining the tooth diameter is important to the performance of the machine (Figure 23). Rotate your Teeth when:

- The relief angle approaches approximately 50% of the carbide thickness.
- Cutter Head speed is noticeably reduced.

1. Block the front end of the Stump Grinder so the Cutter Head is just off the ground.

Note: It may help to mark the "Dull" cutting edge prior to rotating the Teeth so you can be sure you have rotated to an unused cutting edge.

2. Loosen the Locknut on the Tooth using a 5/8" Socket until the top of the Locknut is flush with the top of the Tooth threads (Figure 24).
3. Lightly tap on the top of the Locknut with a Dead-blow Hammer so the Tooth will drop down away from the Tooth Mount.
4. Rotate the Tooth until the next flat area on the side of the Tooth is aligned with the flat area of the Mount.
5. After the Tooth has been turned to the desired position push the Tooth up into the Pocket and torque the Locknut to 35 ft-lbs.
6. Repeat steps 2-5 for the remaining Teeth as needed.

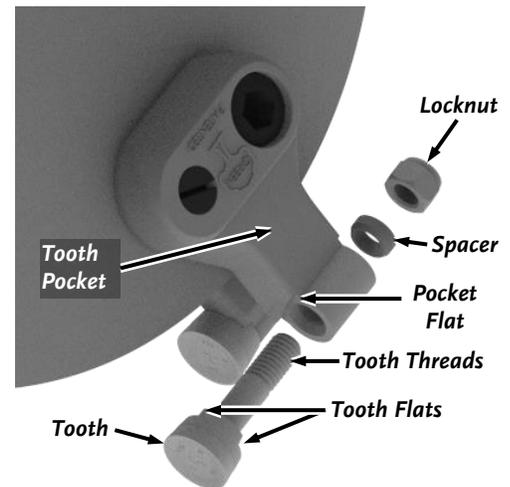


Figure 24

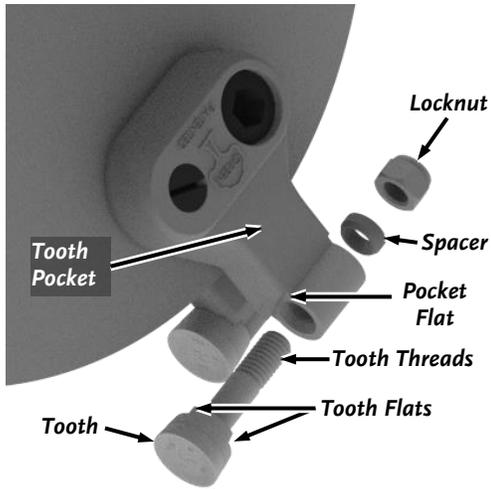


Figure 25

Replacing the Cutting Teeth

Tools and Supplies needed:

- 5/8" Socket
- Torque Wrench
- Dead Blow Hammer
- Gloves
- Teeth Kit# A0010397673

CAUTION

Wear Gloves when working near the teeth. Without Gloves your hands may get cut from the sharp edges.

1. Block the front end of the Stump Grinder so the Cutter Head is just off the ground.
2. Using a 5/8" socket, remove the Locknut from the Tooth Threads (**Figure 25**). Discard used Locknuts.

NOTICE

If you tip the machine back on the Handlebars (only recommended temporarily for service), make sure you turn off the fuel (see Figure 1). Never tip the machine back on the Handlebars for long periods or for storage. Oil will get into the Exhaust and (or) Engine if the machine is tipped completely back for long periods of time and could damage the Engine.

3. Lightly tap on the top of the Tooth Threads with a Dead-blow Hammer to remove the Tooth from the Tooth Pocket.

Note: In the next step make sure that the flat spot on the mount and one of the flat spots on the Tooth are aligned properly before tightening the Tooth hardware. Ensure that the Spacer stays in position at the Locknut end of the Tooth.

4. Insert a new Tooth into the Tooth Pocket and hold it up into position in the Pocket as you secure with a new Locknut. Be sure to orient the Spacer with the tapered side seated down into the Tooth Pocket. Using a Torque Wrench and 5/8" Socket, torque the Locknut to 35 ft-lbs.
5. Repeat steps 2 through 4 for the remaining Teeth as needed.

CAUTION

- Check for wear to the Head Assembly each time the Teeth are replaced. Replace the Head Assembly if it is damaged or worn. Ensure that all parts are secure and tight. Large Allen Head Bolts that secure the Tooth Pockets should be at 180 ft-lbs. torque.
- Be sure to use the new Locknuts provided with the replacement Teeth.
- Failure to replace the Head Assembly when damaged or worn may result in Cutting Teeth coming loose and damaging the machine.

Replacing the Clutch

Tools and Supplies needed:

- 9/16" Wrench
- 1/2" Wrench
- 1/2" Socket
- Torque Wrench
- Dead Blow Hammer

WARNING

Before performing any maintenance procedure, 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.

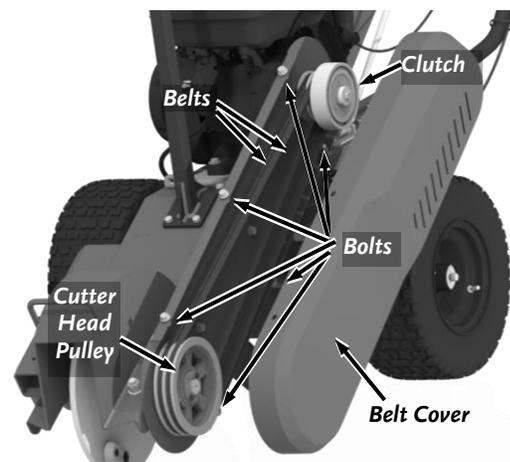


Figure 26

1. Remove the six Bolts that secure the Belt Cover using a 9/16" Wrench. Set aside the Belt Cover to expose the Belts and Clutch (**Figure 26**).
2. Loosen the Tensioner Bolt using a 9/16" Wrench until there are no more Exposed Threads past the Engine Adapter Plate (**Figure 27**).
3. Loosen the four Engine Adapter Plate Bolts using a 9/16" Wrench. There are two Bolts in the front of the Engine and two behind the Engine (**Figure 27**).
4. With the four Engine Adapter Plate Bolts loose, push or pull the Engine towards the Cutter Head to provide slack on the Belts.
5. Remove the Belts by rotating them around the Cutter Head Pulley and off from the Clutch.
6. Place a 1/2" Wrench onto the Clutch Bolt (**Figure 28**).
7. Hit the Wrench sharply with a Dead Blow Hammer to start to loosen the Bolt from the Engine Shaft.
8. Remove the Bolt and Spacer. Remove the Clutch and Key from the Engine Shaft by pulling it towards you.
9. Install a new Clutch and existing Key by sliding it onto the Engine Shaft.
10. Tighten down a new Bolt (with Loctite patch) and the existing Spacer onto the Clutch and Engine Shaft.
11. Pull the Starter Cord taut to prevent the Engine Shaft from turning and use a Torque Wrench and 1/2" Socket to torque the Bolt to 40 ft-lbs.
12. Slip the existing Belts over the new Clutch and re-tension. Refer to "Replace and Tensioning the Belt" section of this manual.
13. Once the Belts are tensioned and the Engine is secured back to the Chassis, reinstall the Pulley Cover.

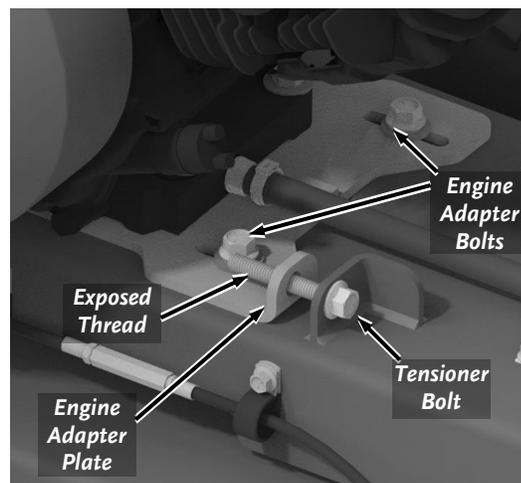


Figure 27

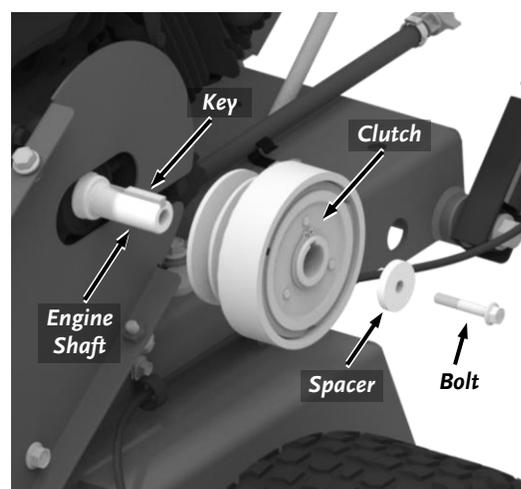


Figure 28

Lubricate Cables

If you notice the Brake Cables or Throttle Cables are sticking when operating the Throttle or Brake Levers moving, you may need to lubricate them.

Supplies needed:

- SAE 30 Oil

1. Lubricate the upper ends of the Throttle and Brake Cables with SAE 30 Oil where the cable goes into the sheathing.
2. Work the Cable Levers to work the Oil in between the Cable and Sheathing.

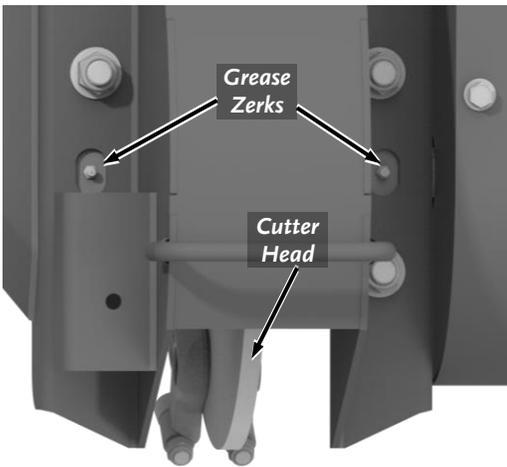


Figure 29

Greasing the Cutter Head Bearings

It is recommended to grease Cutter Head Bearings every 25 hours to ensure best performance.

Supplies needed:

- All Purpose High Temperature Grease
- Grease Gun

1. Locate the two Grease Zerks on the front of the Frame (**Figure 29**).
2. Using a Grease Gun apply 3 to 5 pumps of All Purpose High Temperature Grease at each Grease Zerk location to ensure the Cutter Head Bearings are properly greased.

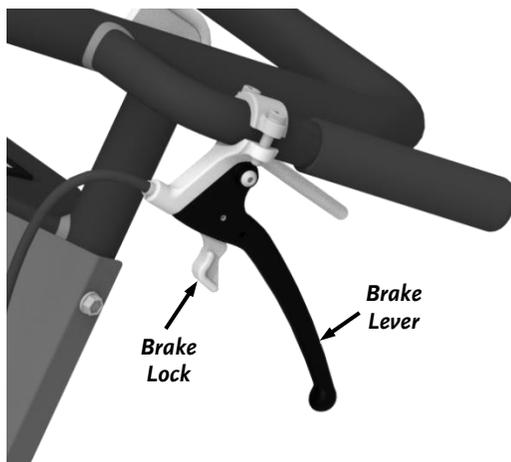


Figure 30

Adjusting the Brakes

If you notice the Wheels moving when the Brakes are Locked, you may need to adjust your Brake Cable Tension.

Tools and supplies needed:

- Two 3/8" Wrenches

Note: "Clockwise" and "Counterclockwise" reference the turning direction when looking at the Barrel Adjuster from the operator position behind the Handlebars.

1. Disengage the Brakes by pulling back on the Brake Locks and releasing the Brake Levers (**Figure 30**).
2. Follow the Brake Cable from the Brake Lever toward the frame, until you find the Brake Barrel Adjuster.
3. Hold the center hex section of the Brake Barrel Adjuster using a 3/8" Wrench and loosen the Jam Nut a few turns using a second 3/8" Wrench so it moves away from the Barrel Adjuster (**Figure 31**).
4. Turn the center hex section of the Barrel Adjuster Counterclockwise a few turns to add tension to the Brake Cable.

Note: The wheel should rotate freely with the brakes disengaged, but remain locked when engaged.

5. Check the new Brake tension by re-engaging the Brake Locks. If the Wheel can rotate past the Brake as you pull the machine back towards you using the handlebars, more adjustment is needed.
6. Continue turning the hex section of the Barrel Adjuster Counterclockwise until the Brake prevents the Wheel from rotating when Locks are engaged.
7. Rotate the Jam Nut up against the Barrel Adjuster once the Brakes are properly set and tighten, using two 3/8" Wrenches.
8. Repeat steps 1 through 6 on the other side if necessary.

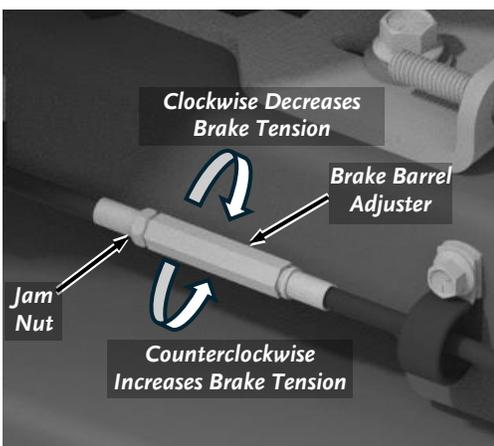


Figure 31

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

Set the Wheel Brakes, shut down the engine, remove the spark plug wire and wait 5 minutes before performing any maintenance procedure or inspection on the Stump Grinder.

Troubleshooting Table

| SYMPTOM | POSSIBLE CAUSE |
|--|--|
| <i>Recoil will not pull out or is difficult to pull.</i> | <ul style="list-style-type: none"> ⇒ 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. |
| <p><i>The Engine will not start.</i></p> <p><i>(Please refer to the Engine Owner's Manual for Engine-specific procedures.)</i></p> | <ul style="list-style-type: none"> ⇒ Make sure the Operator Presence Bail Bar is held down and that the Engine Switch is in the ON position. ⇒ 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. ⇒ 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. ⇒ If your Engine still won't start, visit our website at www.DRpower.com. |
| <p><i>The Engine lacks power or is not running smoothly.</i></p> <p><i>(Please refer to the Engine Owner's Manual for engine-specific procedures.)</i></p> | <ul style="list-style-type: none"> ⇒ Make sure the Choke Lever is all the way off. ⇒ 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. ⇒ 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

Set the Wheel Brake, shut down the engine, remove the spark plug wire and wait 5 minutes before performing any maintenance procedure or inspection on the Stump Grinder.

| SYMPTOM | POSSIBLE CAUSE |
|--|--|
| <i>Engine smokes.</i> | <ul style="list-style-type: none"> ⇒ Check the oil level and adjust as needed. ⇒ Clean the Engine cooling fins and the carburetor housing if they are dirty. ⇒ The Air Filter may be dirty; change it following the procedure in the Engine Owner's Manual. ⇒ You may be using the wrong oil. Refer to your Engine Owner's Manual for detailed information. ⇒ If the Engine still smokes, visit our website at www.DRpower.com. |
| <i>The Engine runs well but the Cutting Head won't move.</i> | <ul style="list-style-type: none"> ⇒ The Throttle should be at the full throttle detent to engage Clutch. ⇒ The Cutter Head Drive Belt is off the pulleys or broken. Reinstall or change Belt (refer to "Chapter 4: Maintaining the XD 17 DR Stump Grinder"). ⇒ Confirm there is nothing wedged/ wrapped around Cutter Head, or Pulleys. ⇒ Confirm the throttle is moving on the engine. ⇒ Confirm that Belts have not stretched to the point that they are slipping off the Pulleys. ⇒ Clutch is not working. Change Clutch (refer to "Chapter 4: Maintaining the XD17 STUMP GRINDER"). |
| <i>The Engine does not fully return to low idle when the throttle is moved to Idle Position.</i> | <ul style="list-style-type: none"> ⇒ Throttle linkage is sticking. Lubricate the Throttle (refer to "Chapter 4: Maintaining the XD17 STUMP GRINDER"). |
| <i>The Cutting Head is rotating but the cutting action is extremely slow and the stump is showing signs of excessive heat.</i> | <ul style="list-style-type: none"> ⇒ The teeth are dull or damaged. Replace Teeth (refer to "Chapter 4: Maintaining the XD17 STUMP GRINDER"). |
| <i>Belt falls off Pulleys frequently.</i> | <ul style="list-style-type: none"> ⇒ Check Cutter Head and Clutch Pulleys and Belts for damage. ⇒ Check the tension of the Belts. |
| <i>Brakes are loose.</i> | <ul style="list-style-type: none"> ⇒ Brake Cables needs adjusting. Adjust Cable as needed (refer to "Chapter 4: Maintaining the XD17 STUMP GRINDER"). |
| <i>Wheels move when Brakes are engaged.</i> | <ul style="list-style-type: none"> ⇒ Brake Cables needs adjusting. Adjust Cable as needed (refer to "Chapter 4: Maintaining the XD17 STUMP GRINDER"). |

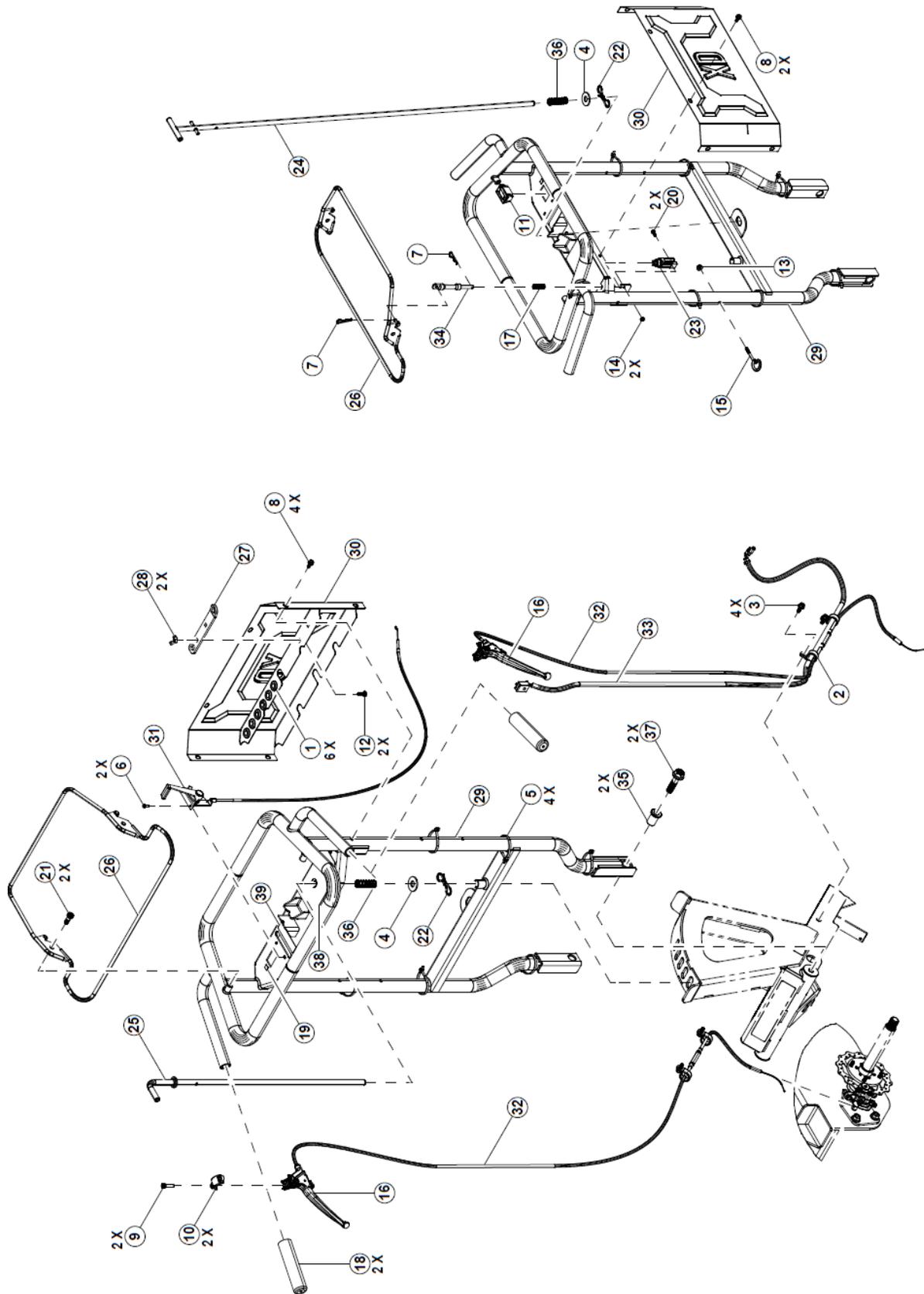
Chapter 6: Parts Lists and Schematic Diagrams

Parts List - HANDLEBAR 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 | 0J3079 | Grommet | 23 | A0006262383 | Switch, OP |
| 2 | 10000031528 | Clamp, loop, 3/4" | 24 | A0006262395 | Handle, Rotation Lock |
| 3 | 365211 | Bolt, 1/4-20 x 5/8" | 25 | A0006262396 | Handle, Height Adjust |
| 4 | 101791 | Washer, Flat, 1/2" | 26 | A0006262397 | Bail Bar, OP |
| 5 | 112141 | Cable tie, 7-1/2" | 27 | A0006262399 | Wrench, Multi-tool |
| 6 | 150491 | Screw 8-32 x 1/2" | 28 | G037561 | Nut, Wing, 1/4-20 |
| 7 | 151921 | Pin Hitch Clip 5/16-3/8" | 29 | A0010403247 | Handlebar w/ Labels |
| 8 | 179121 | Bolt, Trilobe 1/4-20 x 1/2" | 30 | A0006262408 | Control Panel |
| 9 | 179231 | Screw, M6 x 25mm | 31 | A0006262412 | Cable, Throttle |
| 10 | 180291 | Bracket, Lever | 32 | A0006262414 | Cable, Brake |
| 11 | 217201 | Maintenance Meter | 33 | A0006262416 | Wire Harness |
| 12 | 249771 | Bolt, Carriage, 1/4 -20 x 3/4" | 34 | A0006262422 | Pusher, Bail Bar |
| 13 | 350381 | Nut, Nylock, Flange 10-24 | 35 | A0006262423 | Bushing |
| 14 | MGHDW308 | Nut, Nylock, 10-32 | 36 | A0007635503 | Spring, Compression 2" |
| 15 | A0000655096 | Recoil Holder, Wire Form | 37 | A0009735621 | Bolt, 1/2 -13 x 2" |
| 16 | A0010221728 | Lever Assembly, W/Trigger Lock | 38 | A0009577026 | Label, Pivot Unlock |
| 17 | A0004245375 | Spring, 1/2 OD x 1.25 | 39 | A0009577028 | Label, Throttle |
| 18 | A0004764080 | Grip, 1" ID | | | |
| 19 | A0005639565 | Decal, Coin Cell Battery | | | |
| 20 | A0006127631 | Phillips, 10-32 x 5/8" | | | |
| 21 | A0006262370 | Screw, 5/16-18 x 3/8, Shoulder | | | |
| 22 | A0006262372 | Cotter, Bow Tie, 7/16 to 1/2" | | | |

Schematic – HANDLEBAR ASSEMBLY

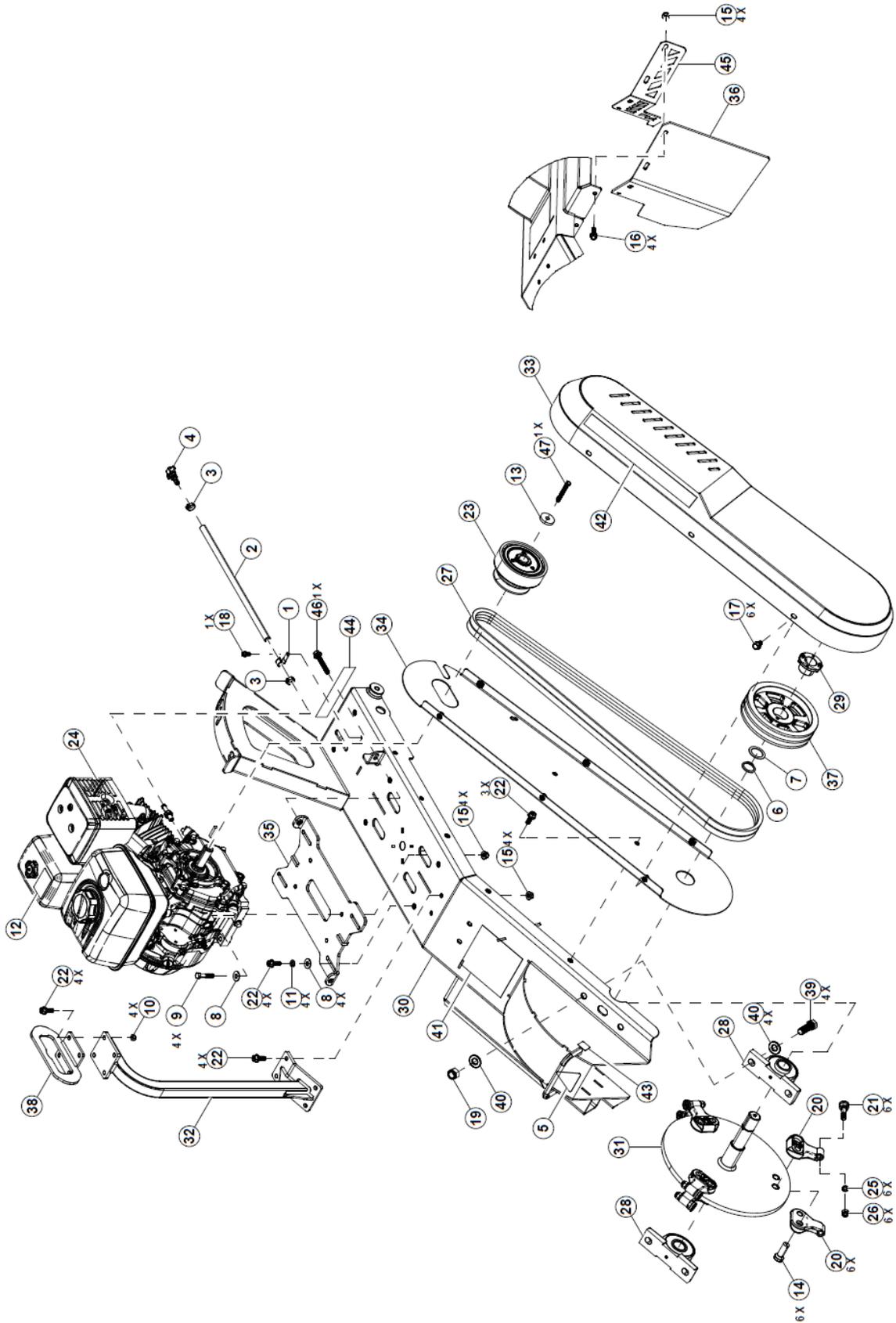


Parts List – DRIVE ASSEMBLY

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 | 082121 | Clip- J Vinyl Coat .625" ID | 24 | A0006262374 | Engine, Honda FX390 |
| 2 | 0F0452A | Hose 3/8" x 16" | 25 | A0006262386 | Spacer, 900 series |
| 3 | 0G3662B | Clamp, Hose | 26 | A0006262387 | Nut, Nylock, 7/16-14 |
| 4 | 0G4426 | Oil Drain Fitting | 27 | A0006262388 | Belt Set, V-groove, 5L |
| 5 | 10000042683 | Label, Warning, Rotating Blade | 28 | A0006262389 | Bearing, Pillow Block, 1-1/4" |
| 6 | 10000043548 | Retaining Ring 1-1/4" Shaft | 29 | A0006262391 | Taper Bushing, H type |
| 7 | 10000046092 | Spacer, 1.265" ID x 1 3/4 x .062 | 30 | A0010403245 | Chassis, Main Frame w/ Labels |
| 8 | 112391 | Washer, Flat, 3/8" | 31 | A0006262401 | Cutter Head |
| 9 | 123341 | Bolt 3/8-16 x 1-3/4" | 32 | A0006262404 | Lift Arm |
| 10 | 333331 | Nut, Nylock, 3/8-16 | 33 | A0006262405 | Outer Pulley Cover |
| 11 | 180811 | Washer, Lock 3/8" | 34 | A0006262406 | Cover Mount |
| 12 | 188871 | Label, Hot Surface | 35 | A0006262407 | Engine Adapter Plate |
| 13 | 228871 | Washer, 385ID 1.5" OD | 36 | A0006262409 | Middle Guard |
| 14 | 304091 | Bolt, Pocket | 37 | A0006262420 | Pulley, 7-3/4 OD |
| 15 | 333331 | Nut, Nylock, 3/8-16 | 38 | A0006262424 | Lift Eyelet |
| 16 | 333511 | Bolt, 3/8-16 x 1.25" | 39 | A0007375500 | Bolt, 5/8-18 x 2" |
| 17 | 345121 | Bolt, 3/8-16 x 3/4" | 40 | A0007375502 | Washer, Flat, 5/8 |
| 18 | 365211 | Bolt, 1/4-20 x 5/8" | 41 | A0009577025 | Label, DR Logo, 5" |
| 19 | A0002459381 | Nut, Nylock, 5/8-18 | 42 | A0009577027 | Label, XD17 |
| 20 | A0006058466 | Pocket, 900 series | 43 | A0009577029 | Label, Tie down |
| 21 | A0006058478 | Tooth, 900 series | 44 | A0009577035 | Label, Safety Icons |
| 22 | 333511 | Bolt, 3/8-16 x 1.25" | 45 | A0009790758 | Guard, Backing Plate |
| 23 | A0006262373 | Clutch, Centrifugal | 46 | A0009897015 | Bolt, 3/8-16 x 2 1/2 |

Schematic – DRIVE ASSEMBLY

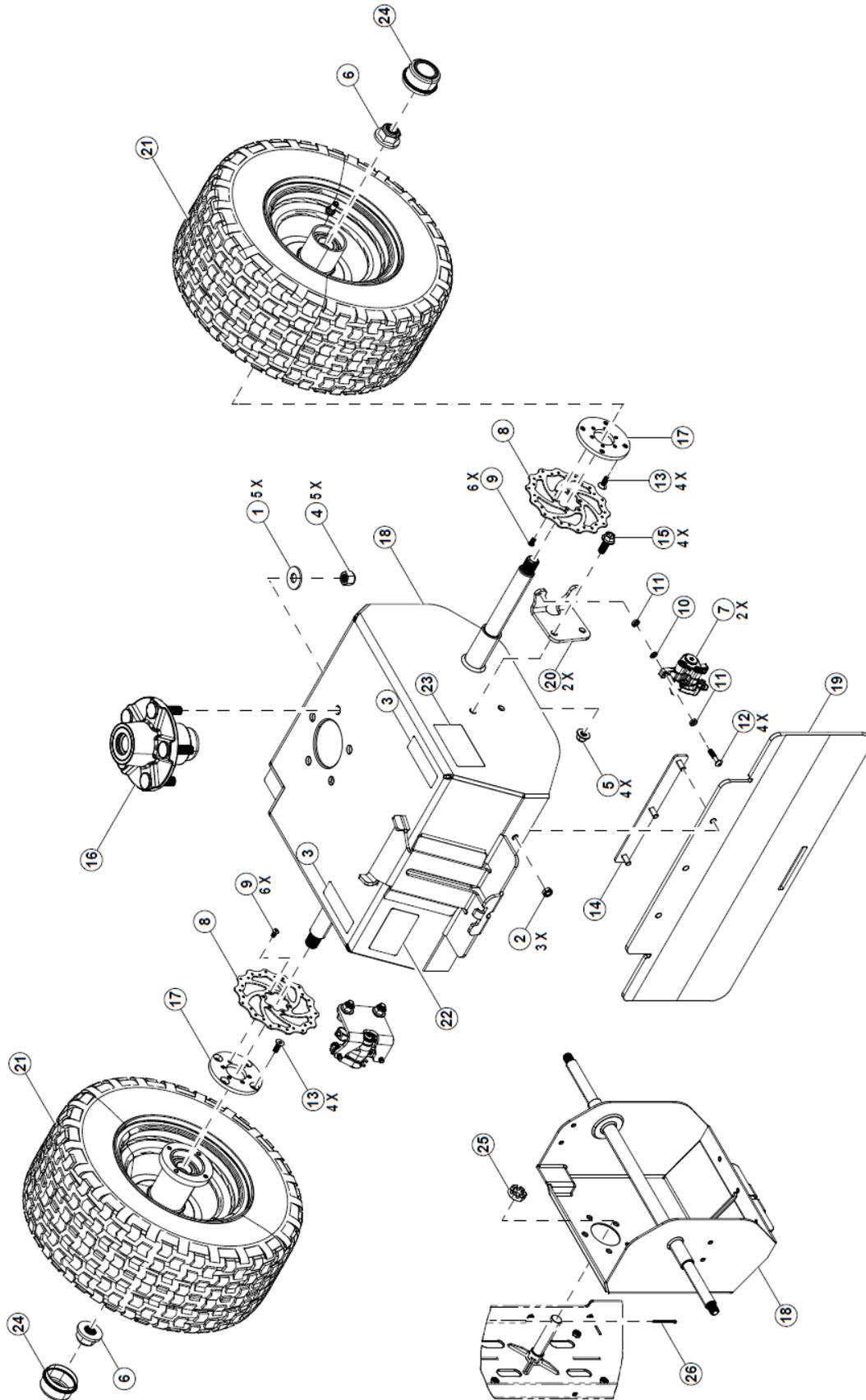


Parts List – AXLE ASSEMBLY

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

| Ref# | Part# | Description |
|-------------|--------------|------------------------------|
| 1 | 101791 | Washer, Flat, 1/2" |
| 2 | 187551 | Nut, Nylock, 5/16 - 18 |
| 3 | 250441 | Label, Warning, Pinch Point |
| 4 | 323911 | Nut, Nylock, 1/2 - 20 |
| 5 | 333331 | Nut, Nylock, 3/8-16 |
| 6 | 333381 | Nut, Nylock, 3/4-10 |
| 7 | 344461 | Caliper, Mechanical Disc |
| 8 | 344471 | Rotor, 140 mm w/Hardware |
| 9 | 352721 | Bolt, M5-.8 x 10 mm |
| 10 | 363581 | Washer, Alignment, Male M6 |
| 11 | 363591 | Washer, Alignment, Female M6 |
| 12 | 363601 | Bolt, M6 -1 x 25 mm |
| 13 | 385941 | Bolt, 1/4-20 x 3/4" |
| 14 | A0000253559 | Plate, Stud Guard |
| 15 | A0006166144 | Bolt, 3/8-16 x 1" |
| 16 | A0006262392 | Wheel Hub, Center Rotation |
| 17 | A0006262398 | Adapter, Rotor |
| 18 | A0010403246 | Wheel Frame, Base w/Labels |
| 19 | A0006262410 | Rear Guard |
| 20 | A0006262426 | Mount, Brake |
| 21 | A0007375503 | 16 x 6.5 x 8, Wheel Assembly |
| 22 | A0009577032 | Label, Warning, Rear Guard |
| 23 | G079552 | Decal Over Laminate |
| 24 | 253181 | Dust Cap |
| 25 | 253101 | Castle Nut, 1-14 |
| 26 | 253111 | Cotter Pin, 5/32 x 2" |

Parts Schematic – AXLE ASSEMBLY



Notes:

DR[®] XD17 STUMP GRINDER



2-Year Limited Warranty

Terms and Conditions

The DR[®] XD17 STUMP GRINDER is warranted for two (2) years against defects in materials or workmanship when put to ordinary and normal consumer use as well as commercial use.

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

DR Power Equipment certifies that the DR XD17 STUMP GRINDER 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 as well as commercial use. DR Power Equipment limits the implied warranties of merchantability and fitness in duration to a period of two (2) years for all emissions related components. The Engine manufacturer warrants the Engine.

The 2-Year Limited Warranty on the DR[®] XD17 STUMP GRINDER 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 Drive Belt, Air Filter, Spark Plug, Cutting Teeth and Wheels. 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[®] XD17 STUMP GRINDER.

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 XD17 STUMP GRINDER

To help maintain your XD17 STUMP GRINDER for optimum performance, we recommend you follow this checklist each time you use your Stump Grinder.

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 Stump Grinder, e.g.; nuts, bolts, welds, etc.
- [] Check Belts for wear and/or stretching.
- [] Check Tire Pressure and wear.
- [] Check the Teeth for wear and damage.
- [] Check the Frame for wear and damage.
- [] Check the Debris Guards for wear and damage.
- [] Remove any debris wrapped around the Cutter Head for Bearing protection.

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 Teeth for wear and damage.
- Remove any debris wrapped around the Cutter Head.
- If your Stump Grinder 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 Belts for damage and wear; replace if necessary.
- Remove the Spark Plug(s) and pour about 1 ounce of motor oil into the Cylinder hole. Replace the Plug(s) 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 Stump Grinder in a dry, protected place. If it is necessary to store the Stump Grinder outside, cover it with protective material (especially the Engine). Store the machine in a dry environment with temperatures between +40 degrees F (5C) and +95F (+35C). Make sure the storage temperatures will never be outside of these limits.



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