



Serial No. _

Order No.

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

Read and understand this manual and all instructions before operating the DR 72" 3PT LANDSCAPE RAKE.

DR[®] 72" 3PT LANDSCAPE RAKE

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Conventions used in this manual

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

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

NOTICE

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

Serial Number and Order Number

A Serial Number is used to identify your machine and is located on the Serial Number Label on your machine (*Figure 1*). An Order Number is used to check and maintain your order history and is located on the upper left portion of your packing slip. For your convenience and 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

Read this safety & operating Instructions manual before you use the DR 72" 3PT LANDSCAPE RAKE. Become familiar with the operation and service recommendations to ensure the best performance from your machine. If you have any questions or need assistance, please contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637) and one of our Technical Support Representatives will be happy to help you.

Labels

Your DR 72" 3PT LANDSCAPE RAKE 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 72" 3PT LANDSCAPE RAKE as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.



Always take the following precautions when operating this Landscape Rake:

- Always wear protective goggles or safety glasses with side shields while using the DR 72" 3PT LANDSCAPE RAKE to protect your eyes from possible thrown debris.
- Wear shoes with non-slip treads when using your DR 72" 3PT LANDSCAPE RAKE. If you have safety shoes, we recommend wearing them. Do not use the DR 72" 3PT LANDSCAPE RAKE while barefoot or wearing open sandals.
- Use ear protectors or ear plugs rated for at least 20 dba to protect your hearing from Tractor noise.
- Wear Gloves to protect your hands from injury.

Safety for Children and Pets

Tragic accidents can occur if the operator is not alert to the presence of children and pets. Children and pets are often attracted to the Plowing activity. *Never* assume that children or pets will remain where you last saw them.

- Keep children out of the work area and under the watchful care of a responsible adult.
- Be alert, stop and turn the Tractor off if children or pets enter the work area.
- Never allow children to operate the DR 72" 3PT LANDSCAPE RAKE.
- Never allow children or pets to ride on the Tractor or the DR 72" 3PT LANDSCAPE RAKE.

Operating the DR 72" 3PT LANDSCAPE RAKE Safely

You must operate the 72" 3PT LANDSCAPE RAKE safely. Unsafe operation can create a number of hazards for you. Always take the following precautions when using this Landscape Rake:

- Read, understand, and follow all instructions in this manual. Be thoroughly familiar with the controls and the proper use of your Landscape Rake before using.
- Thoroughly inspect the area where your Landscape Rake will be used, and remove all stones, sticks, wire, pet supplies, or lawn toys, and any other foreign objects that you could run over. Also, note the location of stumps, and other possible hazards that you should avoid during operation.
- Watch for traffic when operating in or near roadways. Pay extra attention when operating near public roadways.
- When operating in a roadway, we suggest that you put out obstructions (marker cones or pails) to divert any traffic away from your work area.
- Be aware of your surroundings when operating the DR 72" 3PT LANDSCAPE RAKE, e.g. ditches, culverts, drop-offs, and hills.
- Never allow people who are unfamiliar with these instructions to use the DR 72" 3PT LANDSCAPE RAKE.
- To be safe, do not operate the Landscape Rake near small children or pets, and never allow children to operate the 72" 3PT LANDSCAPE RAKE. Stop using the Landscape Rake when another person or pet approaches.
- Do not allow people to ride on the Landscape Rake.
- If you have to stop to remove any debris from the Landscape Rake, always shut off the Tractor's engine and set the parking brake.
- Do not, under any conditions, remove, bend, cut, fit, weld, or otherwise alter standard parts on the DR 72" 3PT LANDSCAPE RAKE. Modifications to your machine could cause personal injuries and will void your warranty.
- While using the DR 72" 3PT LANDSCAPE RAKE, don't hurry or take things for granted.
- Do not operate the Landscape Rake when under the influence of alcohol or medication.
- Use the DR 72" 3PT LANDSCAPE RAKE only in daylight or good artificial light.
- Inspect your tractors hydraulic system to assure that it is in proper working order. Refer to your tractors operators' manual for maintenance and safety instructions.

- To prevent serious injury or death when using the DR 72" 3PT LANDSCAPE RAKE a minimum 20% of the combined tractor and equipment weight must be kept on the front wheels. Weight distribution can be obtained with the use of front wheel weights, front tractor weights or a front end loader. Do not exceed the tractors ROPS weight certification while attaining the combined minimum 20% of tractor and equipment weight on the front wheel. For the best accurate results, weigh your tractor and DR 72" 3PT LANDSCAPE RAKE.
- When operating on or near slopes or sharp dips, reduce speed and take care when making sharp turns or changing directions to minimize loss of control or tipping. Avoid making sudden stops or starts on slopes.

The DR 72" 3PT LANDSCAPE RAKE must be operated safely to prevent or minimize the risk of minor or moderate injury. Unsafe operation can create a number of hazards for you. Always take the following precautions when operating this 72" 3PT LANDSCAPE RAKE:

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
- Do not use the DR 72" 3PT LANDSCAPE RAKE to drag, tow, or carry items.
- Never leave the DR 72" 3PT LANDSCAPE RAKE unattended. If you leave the area, shut off the Tractor, and remove the key.
- Keep all nuts and bolts tight and keep the equipment and attachments in good operating condition.
- Use only manufacturer-recommended replacement parts.
- Do not use the DR 72" 3PT LANDSCAPE RAKE in a manner not in accordance with these instructions.
- To prevent loss of control and injury during opperation avoid excessive speed
- Use extreme caution when using the DR 72" 3PT LANDSCAPE RAKE in the rear facing posistion to fill holes and trenches. Do not use the DR 72" 3PT LANDSCAPE RAKE as a ram while moving dirt piles.
- To prevent damage when using the DR 72" 3PT LANDSCAPE RAKE, always take small "bites" of material. This will limit the load and stress on the equipment.
- Some Items may be heavy, always use two people when assembling, moving or handling the DR 72" 3PT LANDSCAPE RAKE.

California Proposition 65

California Proposition 65:

• This product contains or emits chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm.

A Note to All Users

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 72" 3PT LANDSCAPE RAKE 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 72" 3PT LANDSCAPE RAKE

It may be helpful to familiarize yourself with the controls and features of your DR 72" 3PT LANDSCAPE RAKE as shown in Figure 2 before beginning these procedures. If you have any questions at all, please feel free to contact us at www.DRpower.com.

DR 72" 3PT LANDSCAPE RAKE Controls and Features





Specifications

Tractor Requirements	20-45 HP Category 1 Tractor			
Operating Speed	Max Towing Speed - Low Gear 5 MPH			
Working Width	72"			
Angle Adjustments	Forward 5 positions @ 22.5 Degrees / Rearward 5 Positions @ 22.5			
Tines	36 Tines, Spaced .95" Apart			
Parking Stand	Included			
3PT Quick Hitch Compatible	Yes			
Machine Weight	250 LBS.			
Machine Dimensions	65" L x 72" W x 37" H			



Main Parts (Figure 3 and Table below)

Item#	Description	Qty
1	Tine Carrier	1
2	Frame, Main	1
3	Frame, Top Link	2
4	. Parts Bag (see Figure 4)	1
	. Stand	

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



Parts Bag (Figure 4 and Table below)

ltem#	Part#	Description	Qty.
1	. 40035	. Pin, Hair, 3mm Wire	1
2	.39717	. Pin, 15mm	1
3	. 39374	.Screw, Hex, M20 X 2.5 X 100mm, Class 10.9, ZP	3
4	. 40034	. Pin, Top Link, PTO Class 1	1
5	.39714	. Pin, Anti-Rotation	1
6	. 32396	Pin, Linch, 7/16" X 1.5", YZP	3
7	.32378	. Pin, PTO Class 1 Draw	2
8	.32380	.Nut, Hex, 7/8-9, YZP	2
9	.26568	Shim, 1" ID X 1.38" OD X 16" T	2
10	.39418	.Washer, M30	1
11	. 32397	.Washer, Lock, 7/8", YZP	2
		.Nut, M30 X 3.5	
13	. 39382	.Sleeve, Mount, Top Link	1
14	. 39375	.Nut, Nylon Lock, M20 X 2.5, Class 10, ZP	3
15	. 16003	.Pin, Hair, 1/2" To 9/16", .12 Wire	1

Use Figure 4 and the list above to check the parts you received in the package. If you have any questions, please contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.

Assembly

Tools Needed

- Large Adjustable wrench
- Two 30mm Wrenches
- #3 Phillips Screwdriver or 5/16" punch
- General purpose Grease

The Tine Assembly and Frame are heavy. Have a helper assist you when positioning these parts to avoid injury.

- 1. Locate a clean flat surface to assemble the 72" 3PT LANDSCAPE RAKE.
- 2. Position the Tine Assembly as shown and have a helper hold it in position for the next step (*Figure 5*).
- 3. Apply some General-Purpose Grease to the pivot stud.
- 4. With assistance, assemble the Fame (Labels facing up) to the Tine Assembly Pivot Stud (*Figure 6*). Lower the front of the Frame onto the ground.
- 5. Secure the Tine Assembly and Frame with the M30 X 3.5 Nut and M30 Flat washer using a Large Adjustable Wrench (*Figure 7*).
- 6. Align the Frame with the center Tine Assembly Anti Rotation Hole. Install the Anti Rotation Pin and secure with the 1/2" To 9/16" Hair Pin.
- 7. Loosely secure the Top Link Frames to the Frame with two M20 X 2.5 bolts and M20 Locknuts using two 20mm Wrenches (*Figure 8*).
- 8. Install the Quick Hitch M20 X 2.5 bolt, spacer and M20 X 2.5 nut in the second hole from the top using two 20mm Wrenches.
- 9. Tighten all Top Link Frame hardware using two 20mm Wrenches.















Figure 11



Figure 12

- 10. With assistance, lift the Frame and install the Stand into the Frame mount. Secure the Stand with a 15mm Pin and 3mm Wire Hair Pin and Lower the Stand to the ground. (*Figure 9*).
- Position a Draw Pin into the Frame with the threaded portion facing in (*Figure 10*). Insert a #3 Phillips or a 5/16" punch into the hole at the end of the Pin to prevent it from rotating. Secure the pin with a 1" ID X 1.38" OD Shim, 7/8" Lock Washer and 7/8" Nut using a Large Adjustable Wrench. Repeat step 11 for the other Pin.

Attaching the DR 72" 3PT LANDSCAPE RAKE to the Tractor

Before performing the following procedure, be sure your tractor engine is off, parking brake is set, and the key removed for safety.

- 1. Position the rear of the Tractor centered at the Landscape Rake Frame (*Figure 11*).
- 2. Align the Tractor Top Link with the holes in the Top Link Frame and secure with the Top Link Pin and Linch Pin.
- Remove the Linch Pins from the two lower Draw Pins of the 72" 3PT LANDSCAPE RAKE. Slide the Lower Lift Arms of the Tractor onto the lower Draw Pins and secure with the Linch Pins.
- 4. Adjust the Lower Lift Arm Sway Bars as needed to center the 72" 3PT LANDSCAPE RAKE and lock them into position to keep them from swinging side to side. See your Tractor Operator manual for specific instructions to set Lower Lift Arm position.
- 5. Raise the 72" 3PT LANDSCAPE RAKE slightly off the ground with the Tractor and hold the Stand as you remove the Pin and Hair Pin (*Figure 12*).
- 6. Raise the Stand to the working position and secure with the Pin and Hair Pin (*Figure 13*).



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Chapter 3: Operating the DR 72" 3PT LANDSCAPE RAKE

It may be helpful to better familiarize yourself with the features of your 72" 3PT LANDSCAPE RAKE by reviewing *Figure 2* in Chapter 2 before beginning the steps outlined in this chapter.

Operating Safety

- Never allow anyone to operate the DR 72" 3PT LANDSCAPE RAKE without first reading and understanding all instructions in this manual. Be thoroughly familiar with the controls and the proper use of your Grader before using.
- Never let people ride on the DR 72" 3PT LANDSCAPE RAKE.
- Always check for objects in the Landscape Rake's path before moving.
- When operating in a roadway, we suggest that you put out obstructions (marker cones or pails) to divert any traffic away from your work area. Always be aware of potential traffic hazards.

Operating Parameters

- Utility Tractor
 - 3 PT hitch Category 1.
 - 20-45 HP.

Operating Tips

The rake may be used for loosening material, leveling material, and clearing debris from material.

The Rake may be angled to windrow debris to the side for working in large areas.

- Expect to make several passes with the DR 72" 3PT LANDSCAPE RAKE to remove material, depending on the condition.
- Avoid large rocks, embedded ledge, cattle guards, or similar obstructions.
- Remove rocks pulled to the surface during raking to provide a better final raked surface.
- Use Low Gear when using the DR 72" 3PT LANDSCAPE RAKE Do not exceed 5 MPH while raking
- Use caution when working around slopes. Always Pass diagonally through sharp dips. Avoid working around sharp drops to prevent hanging up the tractor or Rake.
- Reduce ground speed and use extreme care when working around slopes or rough terrain.

WARNING

- Before making any adjustments to the DR 72" 3PT LANDSCAPE RAKE please take caution and keep the work area clear of distractions.
- Only make adjustments when the DR 72" 3PT LANDSCAPE RAKE is hooked to the tractor.
- Never make adjustments when the tractor is running. Always Shut the tractor off and set the parking brake.
- Only lift the DR 72" 3PT LANDSCAPE RAKE high enough off the ground to make the adjustments.



Figure 14



Figure 15



Figure 16

Adjusting the Working Angle

The Rake angle can be set at three different angles per side depending on how aggressively you want to rake and what direction it moves the material.

- 1. Remove the Hitch Clip that secures the Anti-Rotation Pin (Figure 14).
- 2. Rotate the Rake to your desired position (Figure 15).
- 3. Reinsert the Anti-Rotation Pin and secure with the Hitch Clip.

Reverse Raking

The Rake can also be rotated 180° and used in reverse for light raking or backfilling. The same angle settings apply in the reverse position

- 1. To use the Rake in the reverse setting, remove Hair Pin from the Anti-Rotation Pin and remove the Pin (Figure 16).
- 2. Rotate the Rake 180° so that the Tines are facing in reverse and reinstall the Anti-Rotation Pin.

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Chapter 4: Maintaining the DR 72" 3PT LANDSCAPE RAKE

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

- Before performing any maintenance, you must first lower the machine to the ground or on blocks to take pressure off the hydraulic system.Shut off the tow vehicle, remove the key and set the parking brake.
- Never trust the tractors hydraulic system to hold the machine while preforming maintnance and/or adjustments.
- To avoid injury never posistion yourself between the 72" 3PT LANDSCAPE RAKE and the ground or the tractor

Regular Maintenance Checklist

PROCEDURE	BEFORE EACH USE
Check general equipment condition e.g., Nuts, Bolts, welds, etc.	A
Clean the DR 72" 3PT LANDSCAPE RAKE	
Check & lubricate pivot pin	A
Check Tines for damage (replace as needed)	

Cleaning the 72" 3PT LANDSCAPE RAKE

1. Use a Hose or Pressure Washer to clean the DR 72" 3PT LANDSCAPE RAKE to keep the Tines clean and clear of debris.

Replacing the Tines

If your Tractor has a Lockout Valve, use it to support the Rake Tines off the ground. We recommend also placing blocks under the Rake Frame to ensure it will not lower accidentally while adjustment/maintenance is performed.

Tools Needed:

- Two 17mm Wrenches
- Blocks
- Support the DR 72" 3PT LANDSCAPE RAKE onto blocks so that the Tines are lifted off the ground. Support blocks are best placed directly under the side arm mounting points on the frame (*Figure 17*).
- 2. Remove the Bolt and Locknut that secures the Tine to be removed using two 17mm Wrenches (*Figure 18*).
- 3. Loosen the other five Bolts and Locknuts securing the Tine Clamp to the Tine Carrier using two 17mm Wrenches.
- 4. Remove the damaged Tine and insert a new Tine.
- 5. Align the holes and install the Bolt and Locknut using two 17mm Wrenches.
- 6. Tighten the remaining Clamp hardware using two 17mm Wrenches.
- 7. Remove the Blocks when finished.







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.

Before performing any maintenance, you must first shut off the tow vehicle, remove the key and set the parking brake.

Troubleshooting Table

S YMPTOM	Possible Cause		
The Tines are not moving as much material as they should	 ⇒ Some of the Tines are bent or damaged; Replace Tines as needed. ⇒ Rake too high; Lower the Rake. ⇒ Rake tilted too far forward; Adjust Top Link to tilt Rake back. ⇒ Tractor maxima too fort. Do not succeed 5 mark when rabing. 		
Too much material is building up in the Tines	 ⇒ Tractor moving too fast; Do not exceed 5 mph when raking. ⇒ The Rake angle is too straight; Change Rake angle to move material aside. ⇒ Too much debris; Raise the Tines to move less material at a time. 		

Parts List – LANDSCAPE RAKE ASSEMBLY

Ref#	Part#	Description	Ref#	Part#	Description
1	39376	Frame	13	39374	Bolt, HHCS, M20 X 2.5 X 100
2	39418	Washer, M30	14	39375	Nut, M20
3	39417	Nut, M30 X 3.5	15	26568	Shims, 1"Id & .38"Id, .16"T
4	39377	Frame, Top Link	16	39717	Pin, 15mm
5	39714	Pin, Anti-Rotation	17	39383	Tine Carrier
6	32378	Pin, PTO Class 1 Draw	18	39384	Tine
7	32379	Washer, Lock, 7/8", YZP	19	36430	Bolt, HCS, M10-1.50 X 35, CL8,8, ZP
8	32380	Nut, Hex, 7/8-9, YZP	20	30249	Nut, Nylon Lock, M10-1.5
9	40034	Pin, Top Link, PTO Class 1	21	39386	Tine Clamp
10	32396	Pin, Linch, 7/16" X 1.5", YZP	22	16003	Pin, Hair, 1/2" To 9/16", .12" Wire
11	39381	Stand	23	40035	Pin, Hair, 3mm Wire
12	39382	Mount Sleeve, Top Link			

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

Schematic – LANDSCAPE RAKE ASSEMBLY



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Notes:

DR[®] 72" 3PT LANDSCAPE RAKE



2-Year Limited Warranty

Terms and Conditions

The **DR**[®] 72" 3PT LANDSCAPE RAKE is warranted for two (2) years against defects in materials or workmanship when put to ordinary and normal consumer use; ninety (90) days for any other use.

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

DR Power Equipment certifies that the **DR**[®] 72" 3PT LANDSCAPE RAKE is fit for ordinary purposes for which a product of this type is used. DR Power Equipment however, limits the implied warranties of merchantability and fitness in duration to a period of two (2) years in consumer use, ninety (90) days for any other use.

The 2-Year Limited Warranty on the **DR®** 72" 3PT LANDSCAPE RAKE 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 Tines. 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**[®] 72" 3PT LANDSCAPE RAKE.

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 72" 3PT LANDSCAPE RAKE

To help maintain your DR 72" 3PT LANDSCAPE RAKE for optimum performance, we recommend you follow this checklist each time you use your 72" 3PT LANDSCAPE RAKE.

Before performing any maintenance, you must first shut off the tow vehicle, remove the key and set the parking brake.

- [] HARDWARE: Check all nuts and bolts to be sure that the components are secure.
- [] FRAME: Check all welds to be sure that the frame is intact and secure.
- [] CLEAN: Make sure the Tines and the Frame are clean and free of debris.

End of Season and Storage

Before performing any maintenance, you must first shut off the tow vehicle, remove the key and set the parking brake.

- Wash the DR 72" 3PT LANDSCAPE RAKE with a Hose or Pressure Washer. Lubricate the pivot point.
- Wipe down the DR 72" 3PT LANDSCAPE RAKE to remove any moisture and dirt that may have accumulated.
- If possible, store the 72" 3PT LANDSCAPE RAKE in a dry, protected place. If it is necessary to store the 72" 3PT LANDSCAPE RAKE outside, cover it with a protective material.



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