

# DR<sup>®</sup> ROTO-HOG<sup>™</sup> POWER TILLER OPTIONAL ACCESSORIES



## SAFETY & OPERATING INSTRUCTIONS



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

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

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



Read and understand this manual and all instructions before using your accessory.

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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.

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

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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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### *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 Optional Accessory. Become familiar with the operation and service recommendations to ensure the best performance from your Accessory. 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 OPTIONAL ACCESSORY for the DR ROTO-HOG POWER TILLER carries prominent labels as reminders for its proper and safe use. Shown below are copies of all the labels that appear on the accessories. Take a moment to study them and make a note of their location on your OPTIONAL ACCESSORY for the DR ROTO-HOG POWER TILLER as you assemble and before you operate the unit. Replace damaged or missing safety and information labels immediately.

#### **DR Power Spreader:**

<b>APPLICATION TIPS</b> Recommended speed: 3 MPH (100 feet in 23 seconds)  (Reduce flow setting for slower speed, and increase for higher speed.) Always move flow control arm to the "OFF" position while filling spreader and when STOPPING or TURNING, to prevent excess fertilizer being released. Spreaders operate best with solid materials. Distribution of powders may vary from this table in both spread width and coverage.	<b>HOW TO USE YOUR SPREADER</b>  1 Set flow gauge on #0 position and push control arm to the "OFF" position.  2 Move tractor and/or spreader onto flat surface.  3 Before filling spreader, refer to chart guidelines:	<b>TYPE MATERIAL</b>	<b>SETTING AT 3 MPH</b>	<b>SPREAD WIDTH IN FEET</b>
		<b>FERTILIZER</b> Powder Granular Pelleted Organic	3 - 5 3 - 5 3 - 5 6 - 8	3 - 4 8 - 10 10 - 12 6 - 8
		<b>GRASS SEED</b> Fine Course	3 - 4 4 - 5	6 - 7 8 - 9

# 234971

### **WARNING!**

Any power equipment can cause injury if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times when operating equipment.

- Read this owners manual before attempting to assemble or operate the ACCESSORY.
- Read the vehicle owner's manual and know how to operate your vehicle, before using the ACCESSORY.
- Do not allow anyone to ride on or sit on spreader or culti-packer frame.
- Never allow children to operate the vehicle or ACCESSORY.
- Do not allow adults to operate the vehicle or ACCESSORY without proper instructions.
- WE RECOMMEND WEARING SAFETY SHOES WHEN USING THIS MACHINE. WEAR SHOES WITH NON-SLIP TREADS TO IMPROVE FOOTING ON SLIPPERY SURFACES. DO NOT USE THE MACHINE WEARING OPEN SANDALS OR WHILE BAREFOOT.
- Wear eye and hand protection when handling and using lawn chemicals.
- Always begin with the VEHICLE transmission in first (low) and gradually increase speed as conditions permit.
- When using the ACCESSORY do not drive too close to a creek or ditch and be alert for holes and other hazards which could cause you to loose control of the ACCESSORY and vehicle.
- Always operate vehicle and ACCESSORY up and down a slope, never across a slope.
- Read instructions and caution notes for handling and application of materials purchased for spreading.
- Follow maintenance and lubrication instructions as outlined in this manual.

## Chapter 2: Setting Up Your Accessory For The DR ROTO-HOG Power Tiller

This chapter outlines a few simple steps you will need to follow to set up and use your new DR ROTO-HOG POWER TILLER OPTIONAL ACCESSORIES. If you have any questions at all, please feel free to contact our Customer Service Representatives at our toll free number 1-800-DR-OWNER (376-9637).

### DR ROTO-HOG POWER TILLER OPTIONAL ACCESSORIES Specification Sheets

#### DR POWER SPREADER SPECIFICATIONS

Spreader Dimensions	34" X 30" X 32"
Shipping Dimensions	29.78" X 21.38" X 24.25"
Shipping Weight	35 lbs.
Spreader Capacity (Weight)	125 lbs.
Spreader Capacity (Volume)	14 gal.

#### DR CULTI-PACKER SPECIFICATIONS

Culti-packer Dimensions	20" X 12" X 38"
Shipping Dimensions	18" X 12" X 39"
Shipping Weight	Approx. 60 lbs.

### SETTING UP YOUR DR POWER SPREADER

#### Unpacking the DR Power Spreader

##### Parts Supplied:

- Hopper/Frame Assembly
- Screen
- Vinyl Cover
- Hardware Package
- Impeller Shaft
- Deflector
- Mounting Bracket, R.H.
- Mounting Bracket, L.H.
- Impeller
- Motor Mount Assembly

##### Tools Needed:

- Pliers
1. Open the shipping container by pulling the staples out with pliers and opening the top flaps (**Figure 1**).
  2. Remove the contents to a flat open area (the Mounting Brackets are located under the bottom box flaps).
  3. Open the cardboard that is wrapped around the Motor Mount Assembly to remove the Motor Mount Assembly, Vinyl Cover, Impeller Shaft and Hardware Package
  4. See the unpacked "Major Components" (**Figure 2**).

**NOTE:** Do not discard your packaging material until you are fully satisfied with your new DR POWER SPREADER.

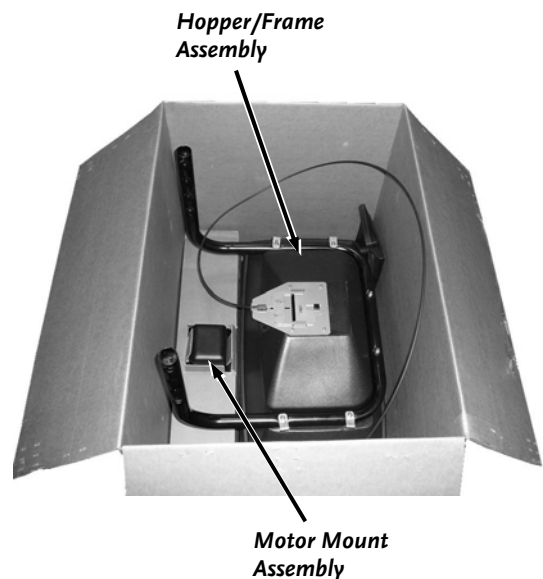


Figure 1

## Major Components

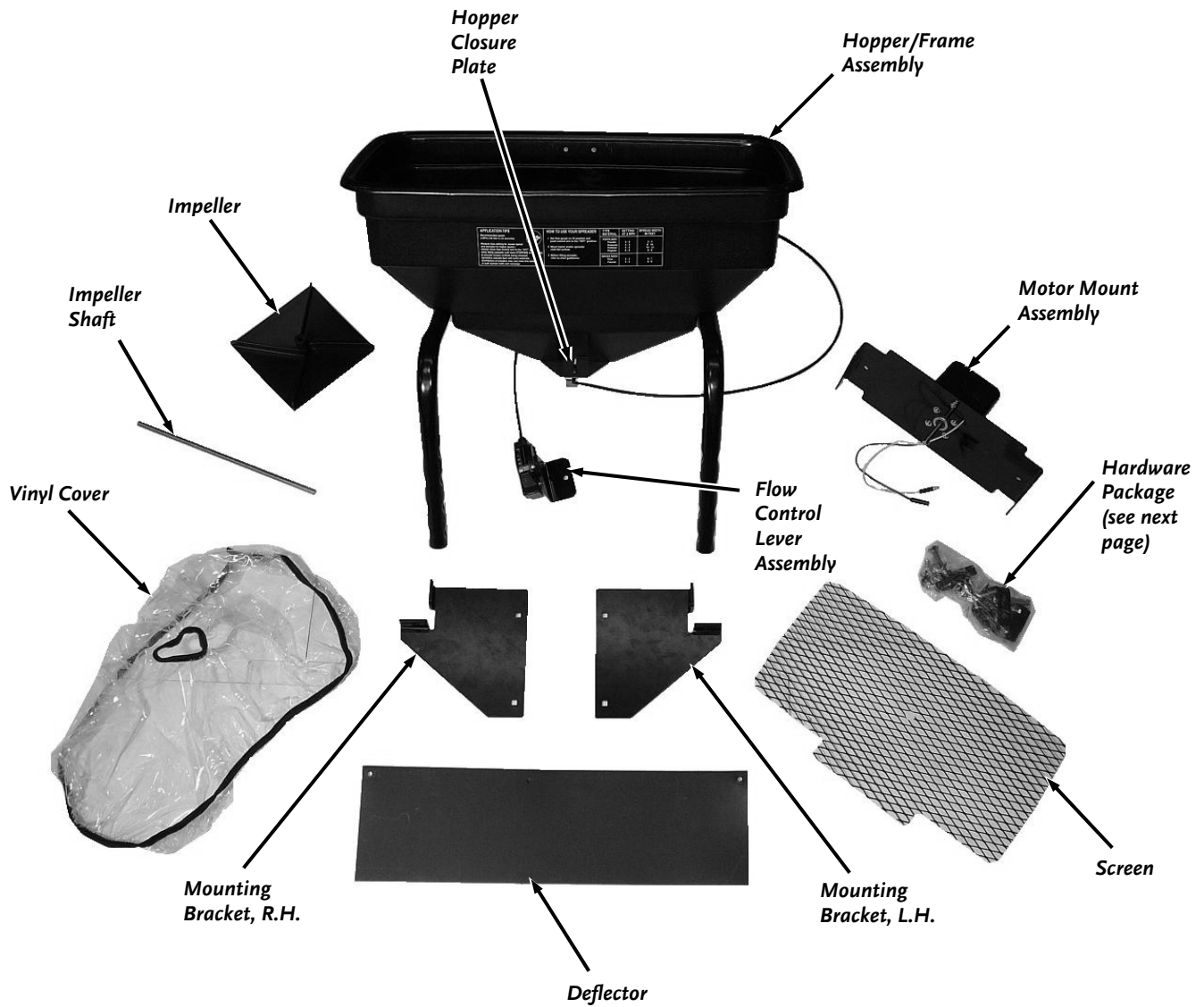
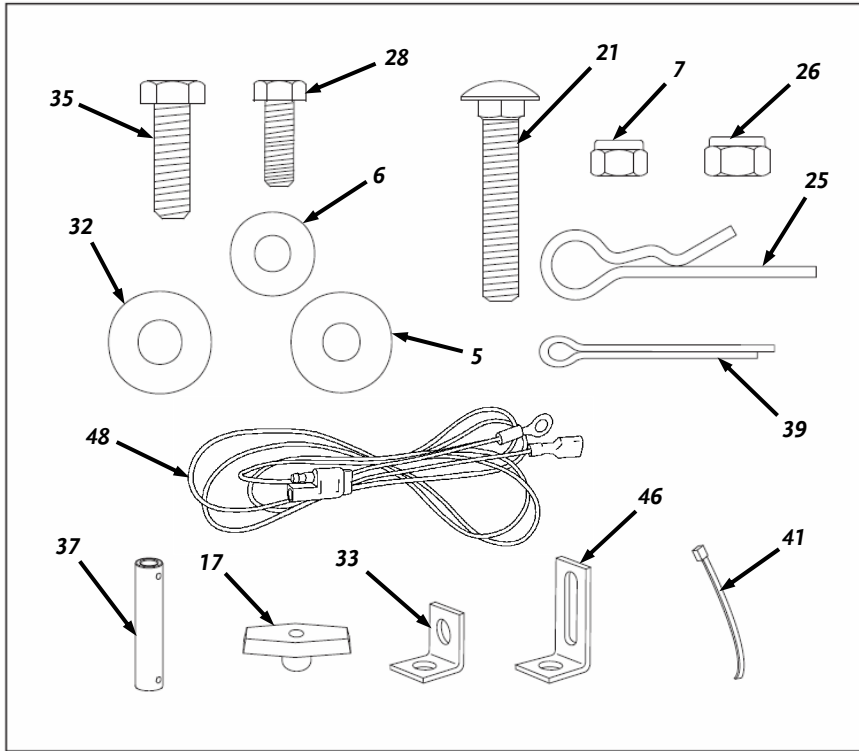


Figure 2

## Hardware Package Contents

The item numbers on the illustration and in the table below are the same item numbers listed in the parts list and schematic diagram in the "Parts List and Schematic Diagrams" section of chapter 7. This reference will aid in the proper location of parts as you assemble the spreader.



ITEM NO.	QTY.	DESCRIPTION
35	4	Hex Bolt, 5/16" x 1"
28	2	Hex Bolt, 1/4" x 3/4"
21	5	Carriage Bolt, 5/16" x 1-3/4"
7	2	Nylock Hex Nut, 1/4"
26	4	Nylock Hex Nut, 5/16"
6	2	Flat Washer, 1/4"
32	8	Flat Washer, 5/16"
5	2	Nylon Washer

ITEM NO.	QTY.	DESCRIPTION
25	1	Hair Pin Agitator
39	3	Cotter Pin, 1/8" x 1-1/4"
37	1	Impeller Coupler
17	5	Wing Knob
33	2	Angle Bracket
46	1	Mounting Clamp
41	2	Nylon Tie
48	1	Spreader Cable

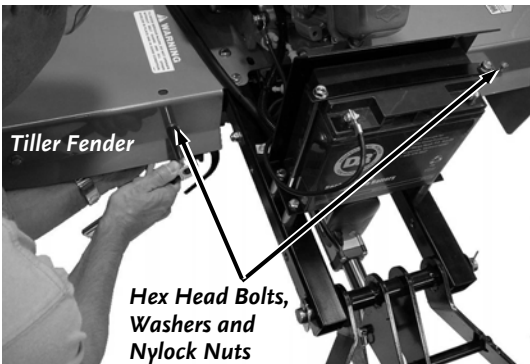


Figure 3

### Installing the DR POWER SPREADER

#### Tools Needed:

- 7/16" Wrench and Socket
- 1/2" Wrench and Socket

#### Instructions:

1. Remove two 5/16-18 X 2-1/4" Hex Head Bolts, Washers and Nylock Nuts (1/2" Wrench) from the back face of the ROTO-HOG POWER TILLER Fender (Figure 3).

2. Position the left hand Mounting Bracket onto the back face of Tiller Fender (**Figure 4**), with mounting tabs facing in, and replace the hardware you removed in step 1. Install a 5/16-18 X 1" Hex Head Bolt (on top), Washer and Nylon Locknut (1/2" Wrench) to secure the Bracket to top of the Tiller Fender. Repeat this step to install the right hand Mounting Bracket.

3. Use the top and bottom holes of the Mounting Tubes on the Hopper/Frame assembly to attach the assembly to the Spreader Mount Brackets with four 5/16-18 x 1-3/4" Carriage Bolts (1/2" Wrench), four 5/16" Washers and four Wing Knobs (**Figure 5**). Make sure that the Carriage Bolt square goes fully into the square holes of the Spreader Mount Brackets and the Wing Knobs and Washers are on the Mounting Tube side.

4. Remove two 1/4" Nylon Locknuts (7/16" Wrench) from the Hopper Assembly and position the two Angle Brackets and secure (hand tight) with the two Nuts you removed (**Figure 6**).

5. Position the Rear Deflector onto the Angle Brackets and secure with two 1/4-20 x 3/4" Bolts, Washers and Nylon Locknuts.

6. Tighten the Nylon Locknuts that secure the Angle Brackets to the Hopper Assembly.

7. Position the Impeller Coupler over the Output Shaft of the Motor Mount Assembly and secure with 1/8" x 1-1/4" Cotter Pin (**Figure 7**).

**NOTE:** The Impeller Shaft has three holes in it. It should be mounted so that the center hole is furthest away from the Impeller Coupler.

8. Insert the Impeller Shaft into the Impeller Coupler and secure with 1/8" x 1-1/4" Cotter Pin.

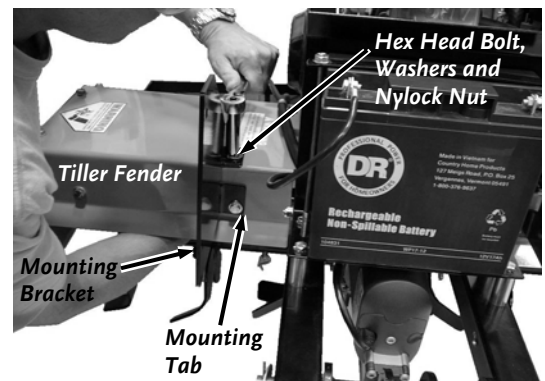


Figure 4

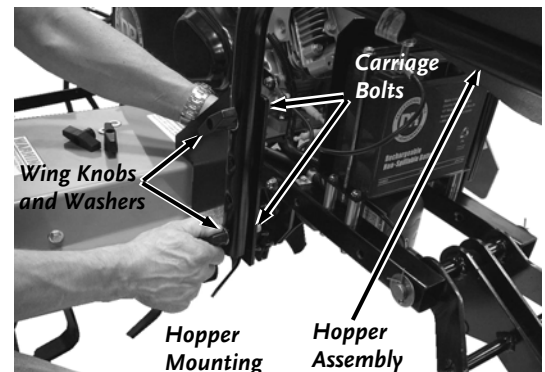


Figure 5

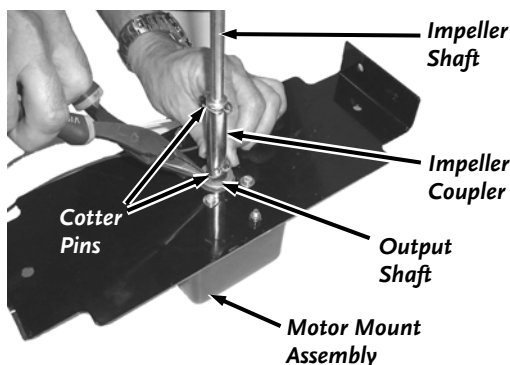


Figure 7

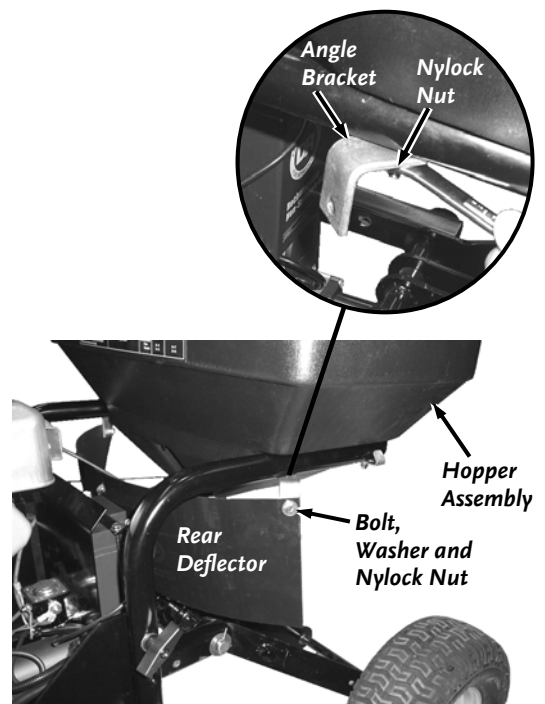


Figure 6

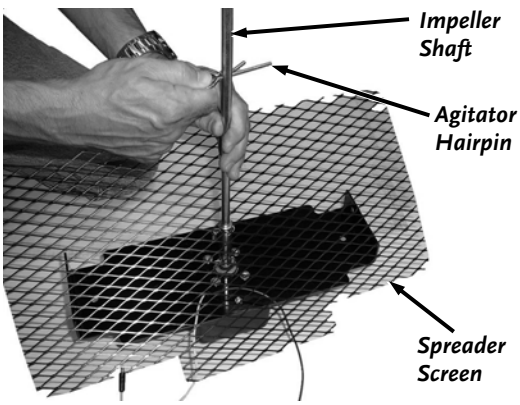


Figure 8

9. Slide the Impeller Shaft through the hole in Spreader Screen and insert the Agitator Hairpin through the center hole in the Impeller Shaft (**Figure 8**).
10. Position the Motor Mount assembly with the Spreader Screen into the Hopper and slide the Impeller Shaft through the hole in the bottom of the Hopper (**Figure 9**). Secure the Spreader Screen into the recessed portion of the Hopper by sliding the edge of the Screen under the Clips on both sides.
11. Line up the Motor Mount Bracket with holes in Hopper. Secure Motor Mount Bracket to Hopper with two 5/16-18 x 1" Hex Bolts, two 5/16" Washers, two Nylon Washers (against outside of Hopper) and two 5/16" Nylon Locknuts (1/2" Wrench) (**Figure 10**).
12. Slide the Spreader Impeller onto the Impeller Shaft with the large fins facing up and secure with 1/8" x 1-1/4" Cotter Pin (**Figure 11**).

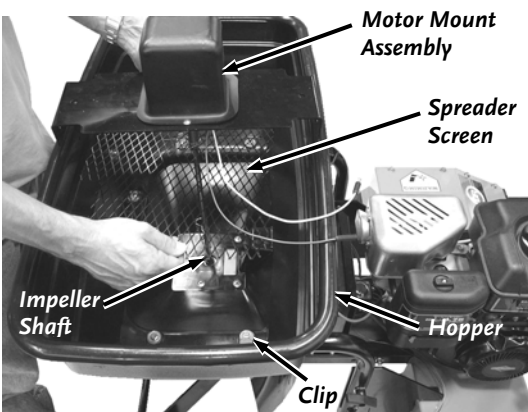


Figure 9

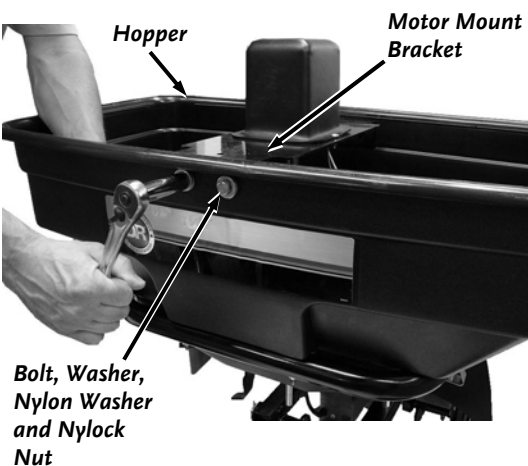


Figure 10

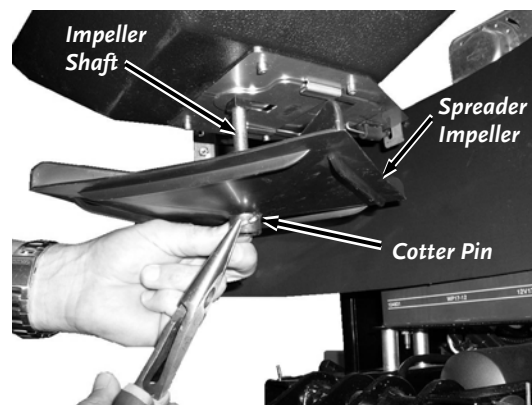


Figure 11



## Wiring Instructions

1. Move the "ON-OFF" Switch on the ROTO-HOG Control Box to the "OFF" position (**Figure 12**).
2. Attach the Spreader Cable Connector to the Motor Mount Assembly Connectors (**Figure 13**).
3. Plug the Green Wire Connector from the Spreader Cable into the Green Wire Connector from the Tiller (**Figure 14**).
4. Remove the Nylon Locknut from the Ground Stud on the Battery Mounting Bracket.
5. Install the Black Wire Terminal from the Spreader Cable onto the Ground Stud and reinstall the Nylon Locknut.
6. Use the Nylon Ties provided to safely secure the wiring and Flow Control Cable away from hot engine parts, rotating parts and pinch points.

## Mounting the Flow Control Lever Assembly

1. Find a place on your tow vehicle to mount the Flow Control Lever Assembly where you can operate while sitting on the vehicle. If there is not a hole in the area to mount a 5/16" bolt then you must create one.
2. Using a 5/16" x 1-3/4" Carriage Bolt and Wing Knob from the Hardware Package, mount the Flow Control Lever Assembly to your Tow Vehicle (**Figure 15**).
3. If a different mounting position is required, use the Mounting Clamp from your Hardware Package to change the position of the Flow Control Lever Assembly. You will need to provide the hardware to mount the Mounting Clamp to the tow vehicle.

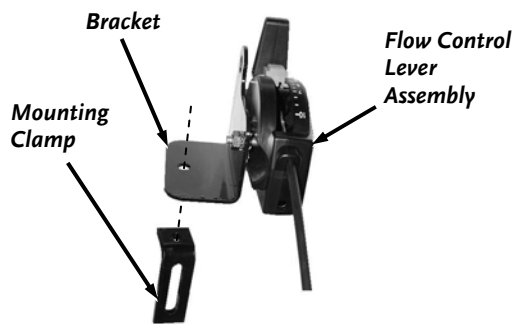


Figure 15

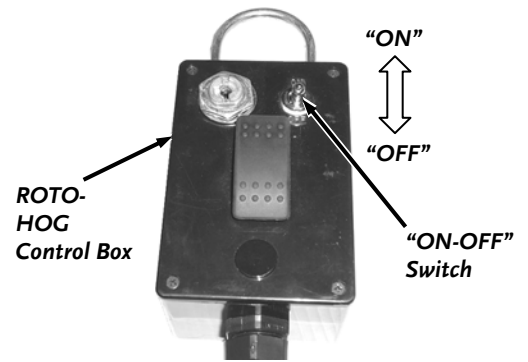


Figure 12

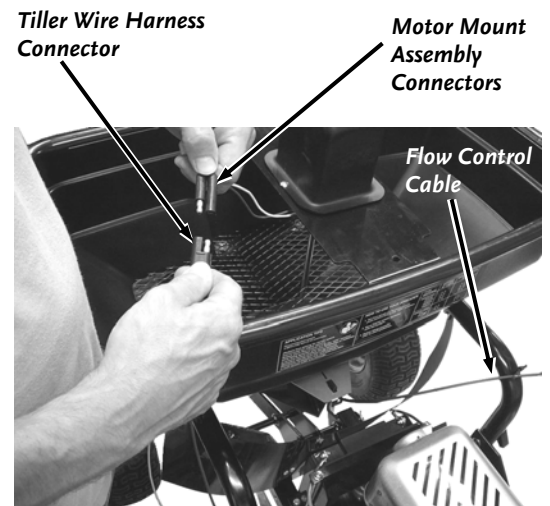


Figure 13

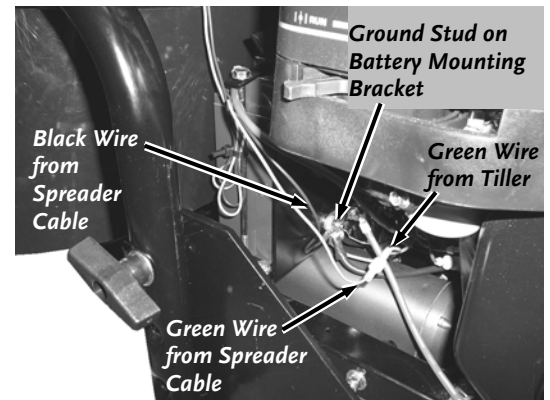


Figure 14

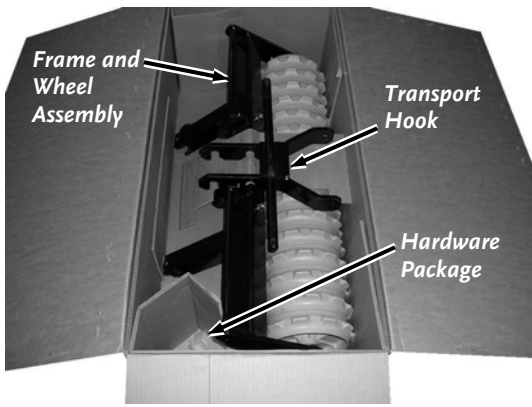


Figure 16

## SETTING UP YOUR DR CULTI-PACKER

### Unpacking the DR Cultivator

#### Parts Supplied:

- Frame and Wheel Assembly
- Transport Hook
- Hardware Package

#### Tools Needed:

- Pliers
- Utility Knife

1. Cut the plastic away from the box with a Utility Knife.
2. Open the shipping container by pulling the staples out with pliers and opening the top flaps (**Figure 16**).
3. Remove the contents to a flat open area.
4. See the unpacked “Major Components” (**Figure 17**).

**NOTE:** Do not discard your packaging material until you are fully satisfied with your new DR CULTI-PACKER.

### Major Components

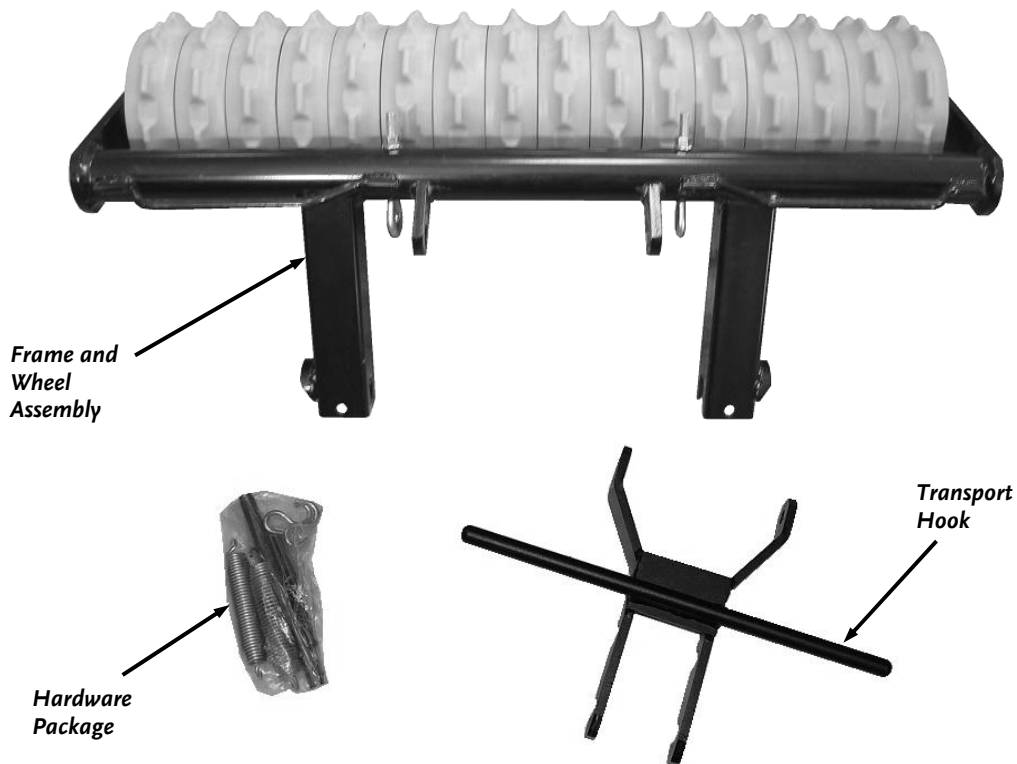
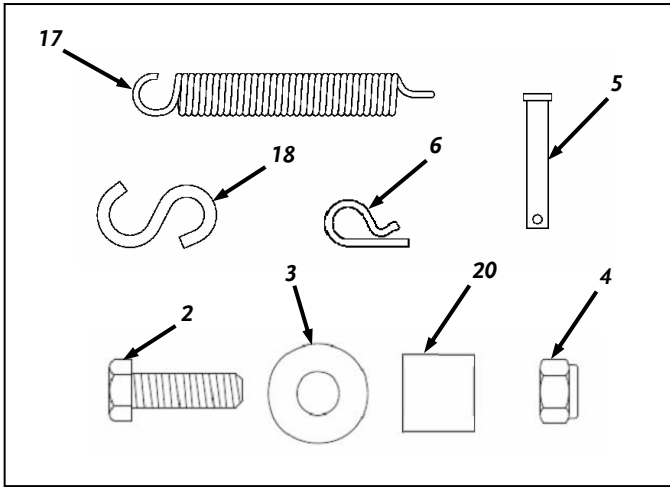


Figure 17

## Hardware Package Contents

The item numbers on the illustration and in the table below are the same item numbers listed in the parts list and schematic diagram in the “Parts List and Schematic Diagrams” section of chapter 7. This reference will aid in the proper location of parts as you assemble and install the Culti-packer.



ITEM NO.	QTY.	DESCRIPTION
17	2	Extension Spring
18	2	“S” Hook
6	2	Hairpin Clip
5	2	Clevis Pin
2	2	Bolt, Hex, 1/2" X 1-3/4"
3	2	Washer, .5312" X 1.5" X .1345"
4	2	Nut, Nylon Lock, 1/2"

## Assembling the Culti-packer

### Tools Needed:

- Two 3/4" Wrenches

1. Position the Hook Assembly with the Adjustment Slots facing down and line up the mounting holes with the Frame Assembly (**Figure 18**).
2. Insert the Bolts, Washers and Spacers (bolt heads facing out) and secure with the Locknuts using two 3/4" Wrenches.

## Installing the Culti-packer

1. Rotate the ROTO-HOG Power Tiller Wheels to their halfway position with the ROTO-HOG Control Box (**Figure 19**).
2. Position the Culti-packer at the rear of the Tiller near the wheel axle (**Figure 20**).
3. Rotate the Hook Assembly away from the Tiller.

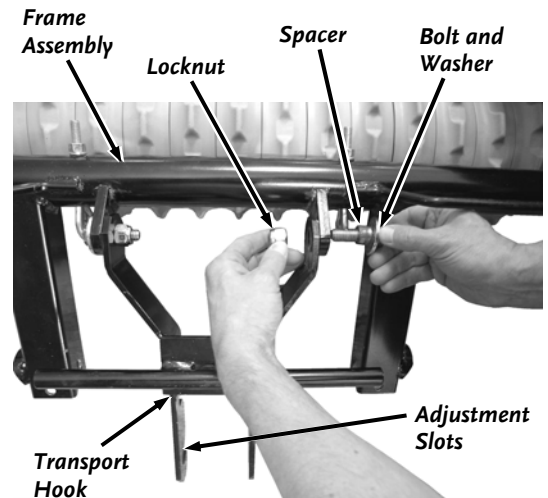


Figure 18

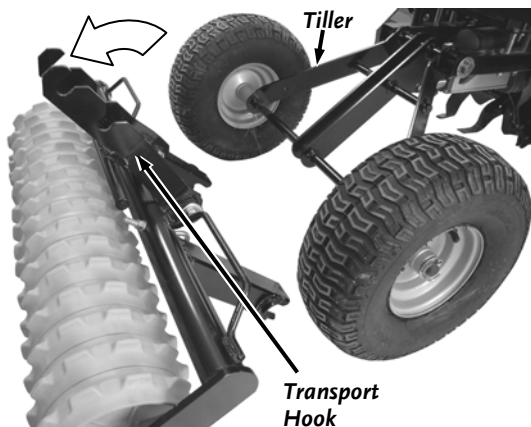


Figure 20

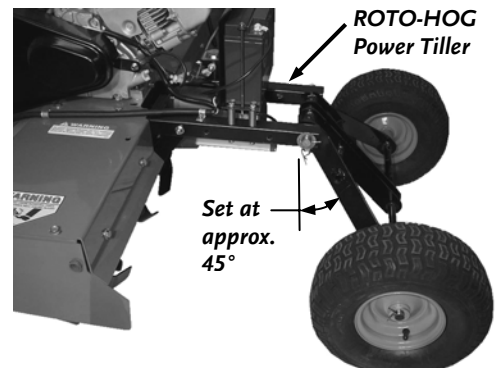


Figure 19

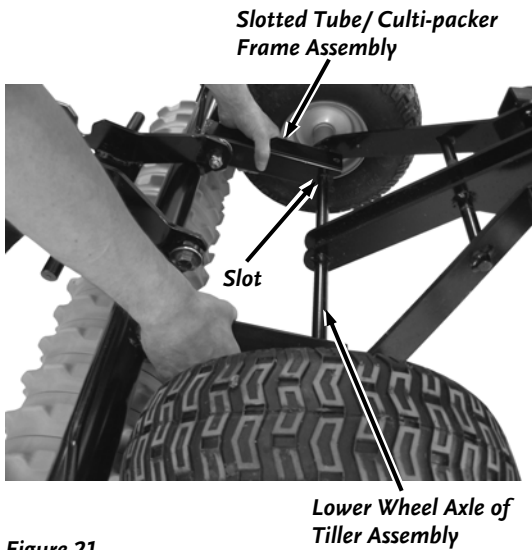


Figure 21

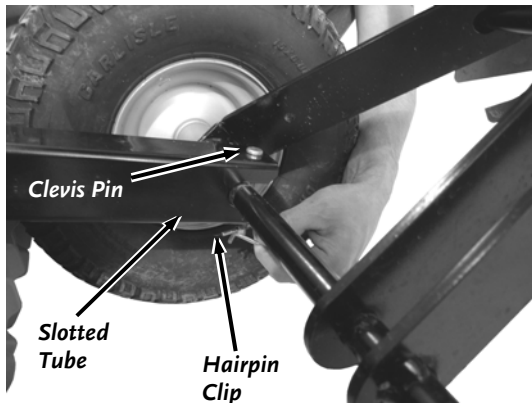


Figure 22

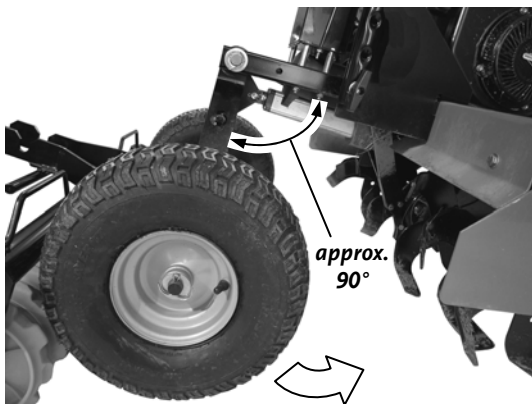


Figure 23

4. Slide the Slotted Tubes of the Frame Assembly onto the Lower Wheel Axle of the Tiller until the Axle is seated into the slot base of both Slotted Tubes (Figure 21).
5. Insert the Clevis Pins into the holes at the ends of both Slotted Tubes from the top and secure the Clevis Pins with Hairpin Clips (Figure 22).
6. Use the ROTO-HOG Control Box to Raise the Tiller Tines to their uppermost position (Figure 23).

**NOTE:** The “S” Hooks have a large and small end. The large end is for the Support Rod and the small ends are for the Springs to attach to in the next step.

7. Place the small ends of the “S” Hooks onto the Springs and hook the Springs to the Eye Bolts (Figure 24).
8. Rotate the Culti-packer up towards the Wheel Frame and hook the “S” Hooks to the Support Rod on the Tiller Wheel Frame Assembly.
9. Slowly lower the Culti-packer to the ground.
10. Lift the Culti-packer as you rotate the Hook Assembly forward until the Lower Slots of the Hook Assembly can be hooked over the Support Rod (Figure 25).
11. The Culti-packer is now in transport mode.

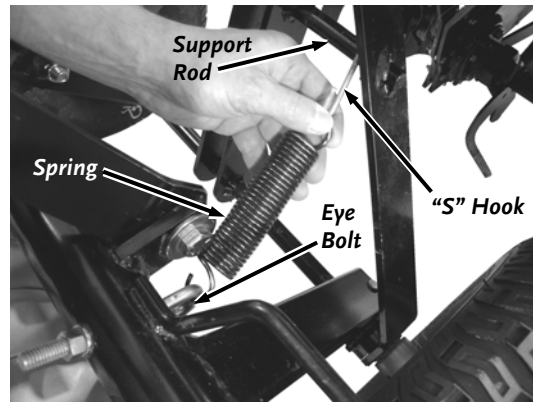


Figure 24

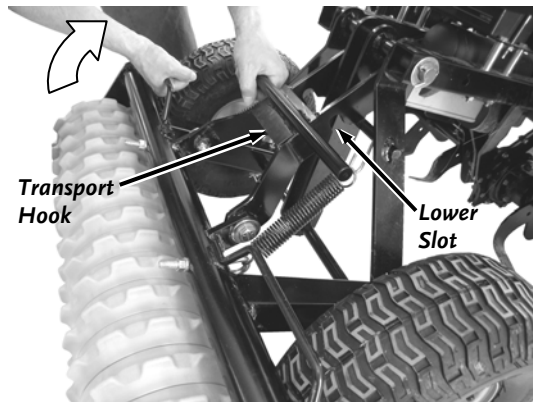


Figure 25

## Chapter 3: Operating Your Optional Accessory

### OPERATING YOUR DR POWER SPREADER

#### Setting the Flow Control Lever

1. Slide the Adjustable Stop to the desired setting ("OFF" is fully closed, "10" is fully open) (Figure 26).
2. Leave the Flow Control Lever at the "OFF" setting until you use the spreader.

#### Starting the DR Power Spreader

1. Toggle the "ON-OFF" switch of the ROTO-HOG Control Box to the "ON" position (Figure 27). Leave the Flow Control Lever at the "OFF" position until you use the Spreader (Figure 26).

#### Stopping the DR Power Spreader

1. Move the Flow Control Lever to the "OFF" position (Figure 26). Toggle the "ON-OFF" Switch to the "OFF" position (Figure 27).

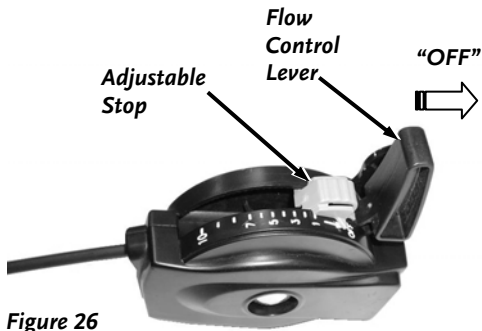


Figure 26

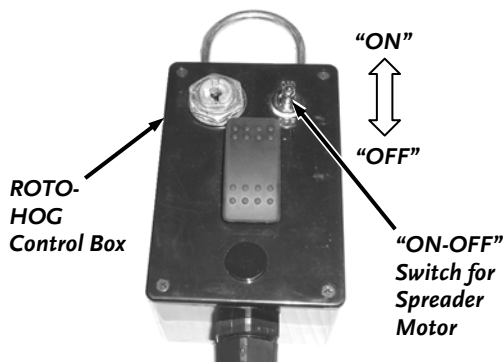


Figure 27

#### **! NOTICE!**

- We do not recommend the use of any powdered lawn chemicals, due to difficulty in obtaining a satisfactory or consistent broadcast pattern.
- Application rates shown in the Application chart (this page) are affected by humidity and by the moisture content of the material (granular and pellet). Some minor setting adjustments may be necessary to compensate for this condition.

#### Using Your DR Power Spreader

1. Determine approximate square footage of area to be covered and estimate amount of material required.
2. Verify that the Spreader Motor turns on and off and that the flow control is operating properly.
3. Make sure the Flow Control Lever is in the "OFF" position.
4. Set the Adjustable Stop to the desired flow rate, keeping the Flow Control Lever in the "OFF" position. Refer to the application chart and the instructions on the Material Package to determine the proper flow rate setting. The application chart is calculated for a vehicle speed of 3 mph (100 ft. in 23 seconds). Faster speeds require higher flow rate settings to maintain the same application rate.

#### **! CAUTION!**

- When spreading weed control fertilizers, make sure the broadcast pattern does not hit evergreen trees, flowers, shrubs or vegetable gardens.
- follow the instructions, warnings, etc. from the manufacturer of the material you are spreading to ensure safe operation.
- do not exceed the 125lbs. weight limit of material in the hopper.

APPLICATION CHART		
TYPE MATERIAL	FLOW SETTING 3 MPH	SPREAD WIDTH
FERTILIZER		
Powder	3-5	3'-4'
Granular	3-5	8'-10'
Pelleted	3-5	10'-12'
Organic	6-8	6'-8'
GRASS SEED		
Fine	3-4	6'-7'
Coarse	4-5	8'-9'

5. Break up any lumps as you fill the Hopper with the material to be spread.
6. Start the vehicle in motion and then toggle the ROTO-HOG Control Box switch to "ON" and move the Flow Control Lever up to lock with the Adjustable Stop.

**NOTE:** Move the Flow Control Lever to off ("OFF") before turning or stopping.

7. To insure uniform coverage, make each pass so that the broadcast pattern slightly overlaps the pattern from the previous pass (**Figure 28**). The approximate broadcast widths for different materials are shown in the application chart on this page.
8. Heavy moisture conditions may require a cover over the hopper to keep contents dry. The Vinyl Cover acts as a wind and moisture shield, but should not be used as a rain cover (**Figure 29**).
9. If fertilizer is accidentally deposited too heavily in an area, soak the area thoroughly with a garden hose or sprinkler to prevent burning of the lawn.

### Removing the DR Power Spreader

1. Disconnect the Wire Harness Connector from the Motor Mount Assembly Connector. Remove the Flow Control Valve Assembly from the rear of the vehicle if it is attached there.
2. Support the Spreader and remove the Wing knobs, Washers and Carriage Bolts from the Spreader Bracket Tubes.
3. Remove the Spreader from the tiller.

## OPERATING YOUR DR CULTI-PACKER

### Setting the Culti-packer to Operating Position

**NOTE:** The following procedure assumes the Culti-packer is in the transport position.

1. Lower the tines on the Tiller to halfway position with the Tiller Control Box.
2. Lift up on the Culti-packer as you lift up on the Hook Assembly to disengage the Hook Assembly Slot from the Tiller Wheel Mount Assembly (**Figure 30**).

**NOTE:** Holding down on the Hook Assembly Handle will help to engage the slot when you reach that point.

3. Slide the Hook Assembly down until the upper slot engages with the rod of the Tiller Wheel Mount Assembly.
4. Raise the Tiller Tines to their uppermost position with the Tiller Control Box.
5. The Culti-packer Wheels are now engaged with the soil and the Tiller Wheels are lifted off the ground.
6. The Culti-packer is now ready to use.

### Operating tips

- For best results it may be necessary to pack the soil before seeding and then pack the soil a second time after seeding.
- The Culti-packer can be used to break up clumps and to give soils a smooth finished appearance.
- If desired, the Culti-packer can be left in the "operating" position when the Tow Vehicle is being reversed.

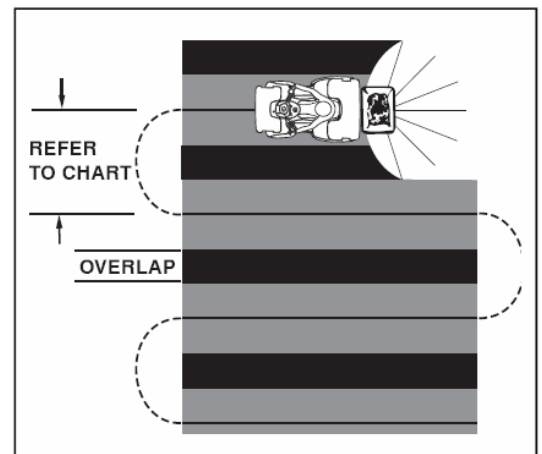


Figure 28

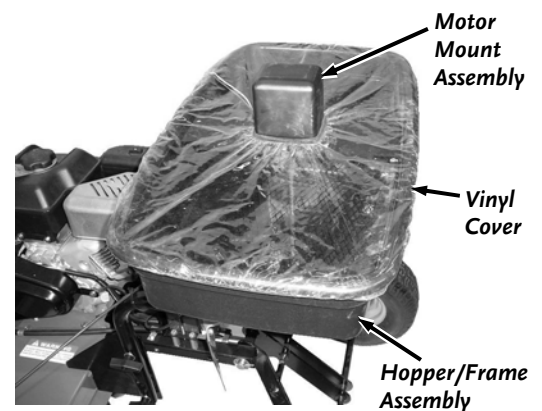


Figure 29

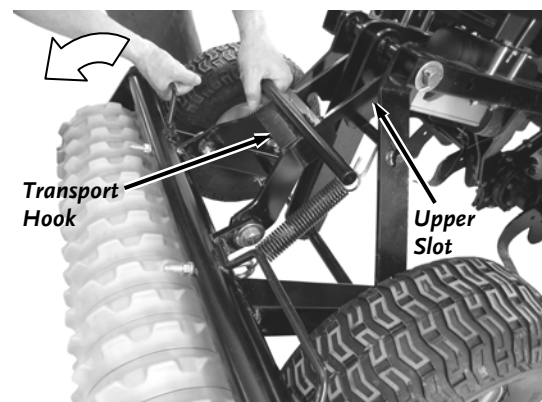


Figure 30

## Chapter 4: Maintaining The Optional Accessory

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Regular maintenance is the way to ensure the best performance and long life of your OPTIONAL ACCESSORY. Please refer to this manual for maintenance procedures.

### **MAINTAINING THE DR POWER SPREADER**

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When performing any maintenance on the DR Spreader Attachment when the unit is still attached to the tiller, you must first make sure the switch on the tiller control box is in the “off” position and then disconnect the wire harness of the motor mount assembly.

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#### ***Regular Maintenance Check List before each use***

##### **CHECK FOR LOOSE FASTENERS**

1. Before each use make a thorough visual check of the Spreader for any bolts and nuts which may have loosened. Retighten any loose bolts and nuts.

##### **CHECK FOR WORN OR DAMAGED PARTS**

1. Check for worn or damaged parts before each use.
2. Repair or replace parts if necessary.

##### **CLEANING**



Follow all warnings, cautions etc. from the material manufacturers for proper cleaning and disposal practices before cleaning your equipment.

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1. Rinse inside of Hopper and exterior of Spreader and dry off before storing (even though the Spreader Motor is sealed, avoid spraying the Motor and wires if possible).
2. Clean out any build up of material from the Hopper Closure Plate.
3. Clean any build up of material from your ROTO-HOG Tiller.

##### ***Storage***

1. Rinse inside of Hopper and exterior of Spreader and dry off before storing (even though the Spreader Motor is sealed, avoid spraying the Motor and wires if possible).
2. Store in a clean, dry area.

## MAINTAINING THE DR CULTI-PACKER

### Regular Maintenance Check List before each use

#### CHECK FOR LOOSE FASTENERS

1. Before each use make a thorough visual check of the Culti-packer for any bolts and nuts which may have loosened. Retighten any loose bolts and nuts.

#### CHECK FOR WORN OR DAMAGED PARTS

1. Check for worn or damaged parts before each use.
2. Repair or replace parts if necessary.

### Replacing Parts

**NOTE:** The Culti-Packer should be lowered to the ground (with no pressure on the Wheels) or taken off the Tiller completely for replacing parts.

#### REPLACING BEARINGS

1. Remove the Cotter Pins and Washers from the ends of the Shaft (**Figure 31**).
2. Slide the Shaft out of the Frame.

**NOTE:** The Spacers may slide off the end of the Tube as you perform the next procedure. Make sure they are installed back on the tube correctly before repositioning the Wheel Assembly into the Frame.

3. Roll the Wheels with the Tube, Bearings and Spacers away from the Frame.
4. Slide the Bearings from the Tube and install the new Bearings.
5. Roll the Wheels with the Tube, Bearings and Spacers into position on the Frame.
6. Slide the Shaft into the Frame and through the Bearings in the Tube.
7. Install the Washers on the ends of the Shaft and secure with the Cotter Pins.

#### REPLACING WHEELS

1. Follow the “Replacing Bearings” section (steps 1 to 3) to disassemble the Wheels and tube from the Frame.
2. Replace damaged Wheel(s) with new Wheel(s).
3. Follow the “Replacing Bearings” section (steps 5 to 7) to disassemble the Wheels and tube from the Frame.

### Cleaning

1. Rinse the Culti-packer and dry off before storing.
2. Clean out any build up of material from the Culti-packer Wheels.
3. Clean any build up of material from your ROTO-HOG Tiller.

### Storage

1. Rinse the Culti-packer and dry off before storing.
2. Store in a clean, dry area.

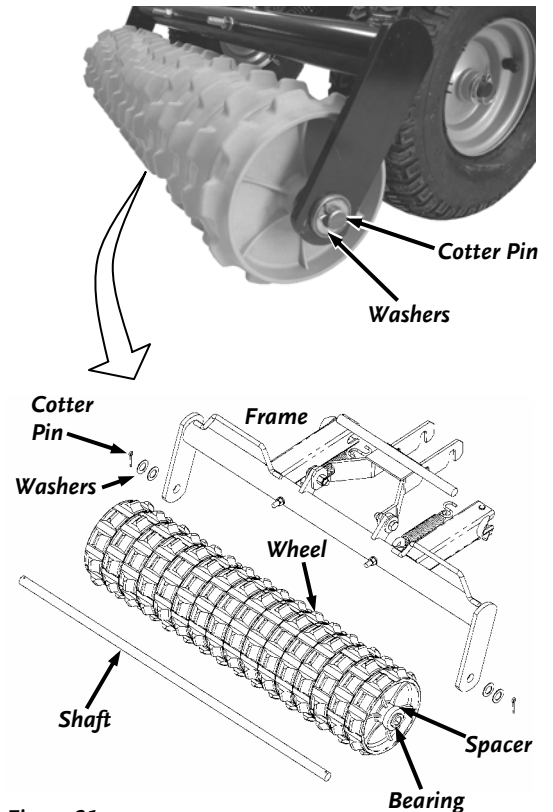


Figure 31



## Chapter 5: Troubleshooting Your Optional Accessory

Most problems are easy to fix. Consult the Troubleshooting Tables below for common problems and their solutions. If the procedures for fixes are not in your OPTIONAL ACCESSORIES Safety and Operating Instructions or if you continue to experience problems, please feel free to contact our Customer Service Representatives at our toll free number 1-800-DR-OWNER (376-9637).

### TROUBLESHOOTING YOUR DR POWER SPREADER



When performing any maintenance on the DR Spreader Attachment when the unit is still attached to the tiller, you must first make sure the switch on the tiller control box is in the “off” position and then disconnect the wire harness of the motor mount assembly.

#### Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>Hopper closure plate does not open to the correct position.</i>	⇒ Material packed around plate. Clean out around closure plate.
<i>Spreader motor doesn't run.</i>	⇒ Loose connection in spreader wiring. Check and reconnect. ⇒ Loose battery connection. Tighten battery terminals. ⇒ Battery is run down. Recharge the battery. ⇒ Broken spreader wiring. Replace damaged wiring. ⇒ Spreader on-off switch is broken. Replace the switch. ⇒ Spreader motor is broken. Repair or replace motor.
<i>Motor runs when switch is shut off.</i>	⇒ Spreader on-off switch is broken. Replace the switch.

### TROUBLESHOOTING YOUR DR CULTI-PACKER

#### Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>Culti-packer wheels do not turn when in use.</i>	⇒ Material packed around wheels. Clean out around and between wheels
<i>Culti-packer does not raise and lower when the tiller control panel is operated.</i>	⇒ Check that the culti-packer handle assembly is locked in the desired groove. Lock the handle assembly into the desired groove.
<i>The culti-packer does not touch the ground when in operation.</i>	⇒ The culti-packer is in the transport position. Move the culti-packer into the operating position.

**Notes:**

**Notes:**

## Chapter 6: Parts List And Schematic Diagrams

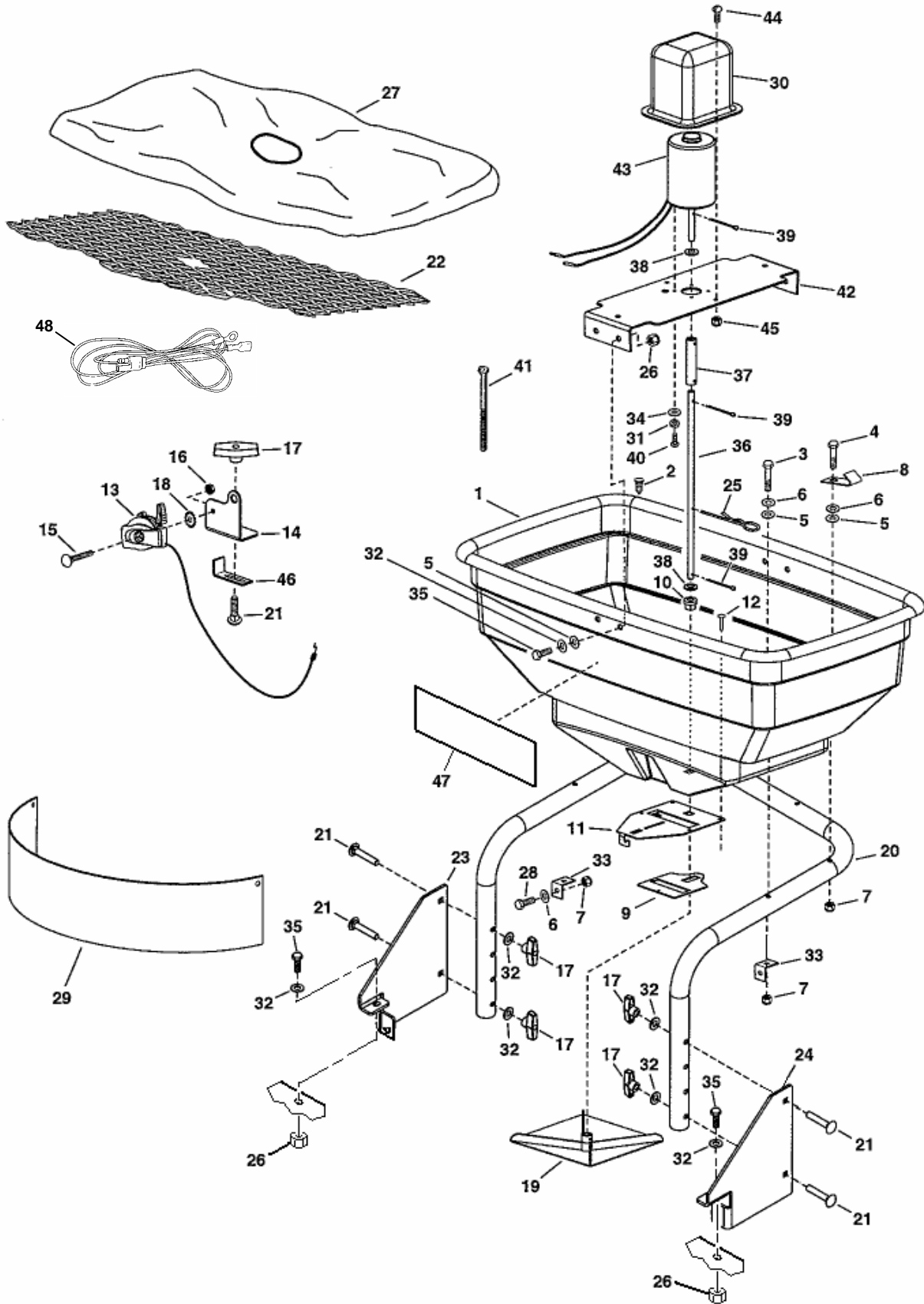
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### Parts List - DR POWER SPREADER

*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>
01	234851	Hopper	25	234861	Hairpin, Agitator
02	234811	Plug, 1/4"	26	233081	Nut, Hex 5/16-18 Nylock
03	234761	Bolt, Hex, 1/4-20" x 2-1/4"	27	234881	Cover, Vinyl
04	234791	Bolt, Hex, 1/4-20" x 2"	28	232841	Bolt, Hex 1/4-20 X 3/4 G5
05	234911	Washer, Nylon	29	234831	Deflector, Rear
06	232891	Washer, 1/4 Std .312 X .734	30	234821	Cover, Motor
07	233031	Nut, Hex 1/4-20 Nylock	31	234931	Washer, Lock. #10
08	234651	Clip	32	232871	Washer, 5/16" Std .375 X .875
09	234641	Plate, Side	33	234581	Bracket, Angle
10	234731	Bushing, Hopper	34	232951	Washer, SAE. #10
11	234591	Plate, Guide	35	232851	Bolt, Hex 5/16-18 X 1 G5
12	234711	Rivet, Pop, 3/16"	36	234631	Shaft, Impeller
13	234681	Cable Assembly, Control	37	234601	Coupler, Impeller
14	234621	Bracket, Control Mount	38	234841	Seal, Motor Lip
15	234751	Bolt, Carriage, 1/4"-20 x 1-3/4"	39	234691	Pin, Cotter, 1/8" x 1-1/4"
16	234801	Nut, Hex Sims, 1/4"	40	234771	Bolt, Pan Slot, #8-32 x 1/2"
17	234701	Knob, Wing	41	234921	Tie, Nylon
18	234741	Washer, Star	42	234611	Bracket, Motor Mount
19	234901	Impeller, Spreader	43	234781	Motor, 12 Volt
20	234871	Tube, Hopper Mount	44	232931	Bolt, Slotted, #10-32 X 5/8"
21	234721	Bolt, Carriage, 5/16"-18/ x 1-3/4"	45	233021	Nut, Nylock, #10-32
22	234891	Screen, Spreader	46	234571	Bracket, Mounting
23	234661	Bracket, Mount RH	47	234971	Label, Spreader Operation
24	234671	Bracket, Mount LH	48	233721	Spreader Cable

**Schematic - DR POWER SPREADER**

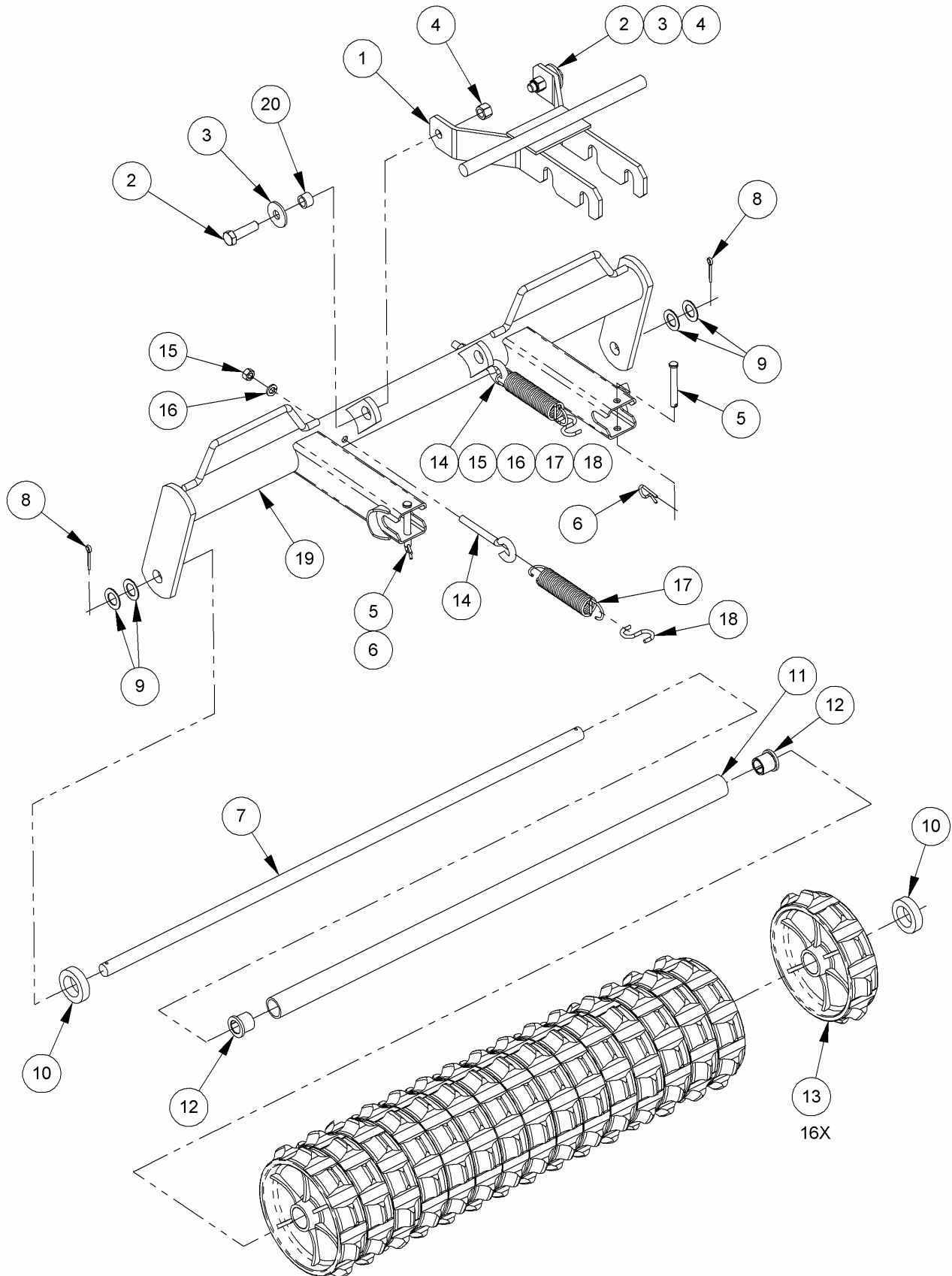


## **Parts List - DR CULTI-PACKER**

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

<b>Ref#</b>	<b>Part#</b>	<b>Description</b>
01	265451	Transport Hook
02	264501	Bolt, Hex, 1/2" X 1-3/4"
03	264521	Washer, .5312" X 1.5" X .1345"
04	110721	Nut, Nylon Lock, 1/2"
05	234231	Pin, Clevis, 3/8" X 2.25"
06	234191	Clip, Hairpin, 1/16" X 1-3/4"
07	264451	Shaft
08	264491	Cotter Pin, 1/8" X 1-1/4"
09	264481	Washer
10	234321	Spacer
11	264461	Tube
12	264471	Bearing Flange
13	234791	Wheel
14	234241	Bolt, Eye, 5/16" X 3"
15	234251	Nut, 5/16"-18
16	234261	Washer, Lock, 5/16"
17	234271	Spring, Extension
18	234281	Hook, "S"
19	264441	Frame
20	264511	Spacer

# Schematic - DR CULTI-PACKER



## ***Daily Checklist for the OPTIONAL ACCESSORY***

To help maintain your OPTIONAL ACCESSORY for optimum performance, we recommend you follow this checklist each time you use your Accessory.

### ***DR POWER SPREADER CHECKLIST***

- Before each use make a thorough visual check of the Spreader for any bolts and nuts which may have loosened. Retighten any loose bolts and nuts.
- Check for worn or damaged parts before each use.
- Repair or replace parts if necessary.

### ***DR CULTI-PACKER CHECKLIST***

- Before each use make a thorough visual check of the Culti-packer for any bolts and nuts which may have loosened. Retighten any loose bolts and nuts.
- Check for worn or damaged parts before each use.
- Repair or replace parts if necessary.
- Check that the Culti-packer wheels are turning freely.



DR Power Equipment

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

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