



JOHN DEERE

OPERATOR'S MANUAL

Tow Behind Spreaders

LP79931, LP79932

1019882-A
09 / 02 / 2022
English

Introduction

Using Your Operator's Manual

Read this entire operator's manual, especially the safety information, before operating.

This manual is an important part of your machine. Keep all manuals in a convenient location so they can be accessed easily.

Use the safety and operating information in the attachment operator's manual, along with machine operator's manual, to operate and service the attachment safely and correctly.

If your attachment manual has a section called Preparing the Machine, it means that you will have to do something to your tractor or vehicle before you can install the attachment. The Assembly and Installation sections of this manual provide information to assemble and install the attachment to your tractor or vehicle. Use the Service section to make any needed adjustments and routine service to your attachment.

If you have any questions or concerns with the assembly, installation, or operation of this attachment, see your local John Deere dealer.

Warranty information on this John Deere attachment can be found in the warranty statement included in this manual.

LP79931
LP79932

Product Compatibility

Compatible with Lawn and Garden Tractors

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Record Product Information

In the event that you need to contact an Authorized Service Center for information on servicing your product, record the following information in the spaces provided below.

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

Original instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

Introduction / Safety

Read the general safety operating precautions in your machine operator's manual for additional safety information.

INTRODUCTION

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Use the safety and operating information in the attachment operator's manual, along with the machine operator's manual, to operate and service the attachment safely and correctly.

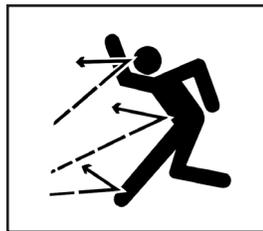
If your attachment manual has a section called **Preparing the Machine**, it means that you will have to do something to your tractor or vehicle before you can install the attachment. The Assembly and Installation sections of this manual provide information to assemble and install the attachment to your tractor or vehicle. Use the Service section to make any needed adjustments and routine service to your attachment.

If you have any questions or concerns with the assembly, installation, or operation of this attachment, see your local John Deere dealer or call John Deere Special Services at 1-866-218-8622 for assistance.

SAFETY

Operate Safely

- This attachment is intended for use in lawn care and home applications. Do not tow behind a vehicle on a highway or in any high speed application. Do not tow at speeds higher than maximum recommended towing speed.
- Towing speed should always be slow enough to maintain control. Travel slowly over rough ground.
- Do not let children or an untrained person operate machine.
- Do not let anyone, especially children, ride on machine or attachment. Riders are subject to injury such as being struck by foreign objects and being thrown off. Riders



may also obstruct the operator's view, resulting in the machine being operated in an unsafe manner.

- Check machine brake action before you operate. Adjust or service brakes as necessary.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals.
- Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.
- Securely anchor all loads to prevent loads from falling.
- Distribute load evenly for safe travel & unloading of cart.
- Do not obstruct the operator's view during use.

Towing Loads Safely

- Stopping distance increases with speed and weight of towed load. Travel slowly and allow extra time and distance to stop.
- Total towed weight must not exceed limits specified in towing vehicle operator's manual.
- Excessive towed load can cause loss of traction and loss of control on slopes. Reduce towed weight when operating on slopes.
- Never allow children or others in or on towed equipment.
- Use only approved hitches. Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the approved hitch point.
- Follow the manufacturer's recommendations for weight limits for towed equipment and towing on slopes. Use counterweights or wheel weights as described in the machine operator's manual.
- Do not turn sharply. Use additional caution when turning or operating under adverse surface conditions. Use care when reversing.
- Do not shift to neutral and coast downhill.

Safety

Read the general safety operating precautions in your machine operator's manual for additional safety information.

Protect Bystanders

- Keep bystanders away when you operate a towed attachment.
- Before you back machine and attachment, look carefully behind attachment for bystanders.

Keep Riders Off Towed Attachment

- Keep riders off of a towed attachment.
- Riders on a towed attachment are subject to injury, such as being struck by objects and being thrown off the attachment during sudden starts, stops and turns.
- Riders obstruct the operator's view, resulting in the attachment being used in an unsafe manner.
- Keep riders off of hitch bracket.

Avoid Injury From Drawbar

Before you disconnect an attachment from machine hitch plate:

- Unload attachment and stop on level ground.
- Stop machine engine.
- Lock machine park brake and block attachment wheels.
- Make sure hands, feet or other body parts are not under drawbar.

Wear Appropriate Clothing

- Always wear eye protection when operating the machine.
- Wear close fitting clothing and safety equipment appropriate for the job.
- While operating this machine, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Wear a suitable protective device such as earplugs. Loud noise can cause impairment or loss of hearing.



Parking Safely

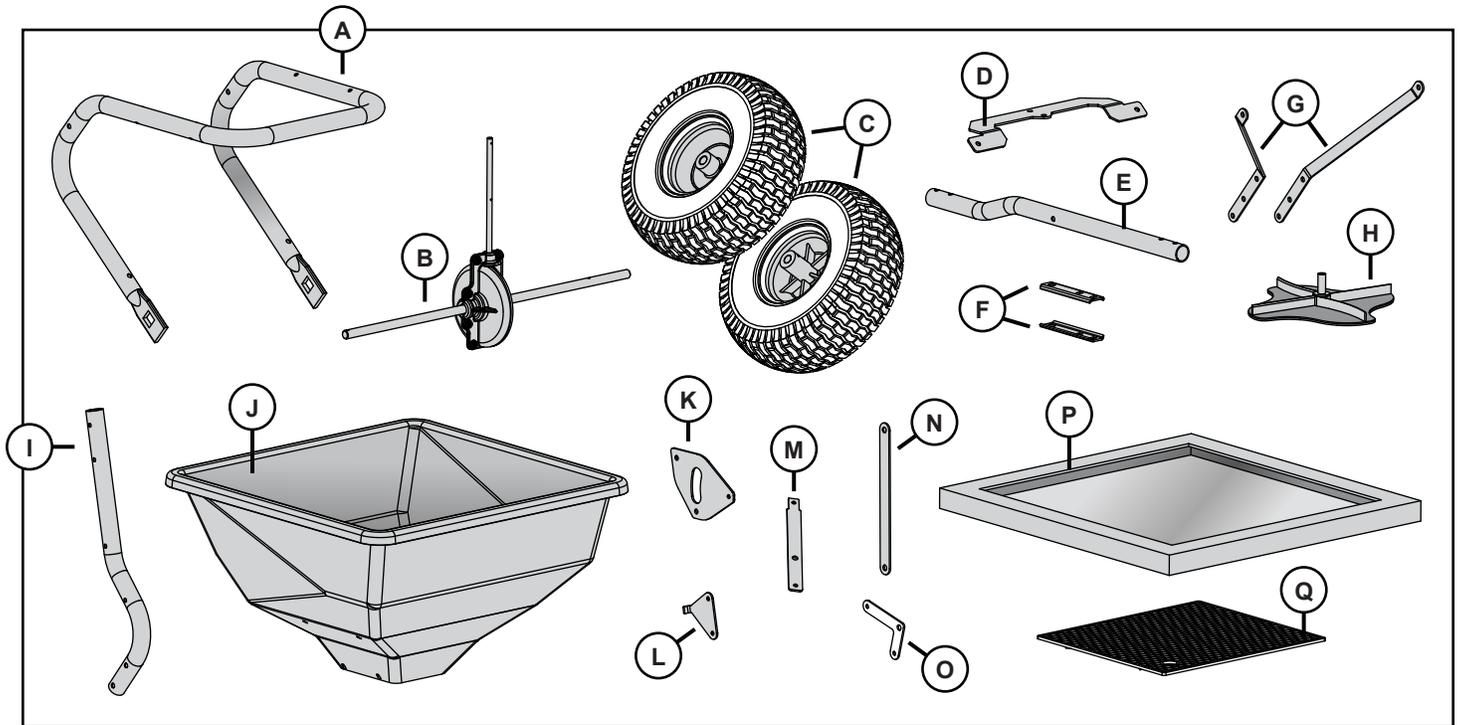
1. Stop machine on a level surface, not on a slope.
2. Disengage mower blades.
3. Lower attachments to the ground.
4. Lock the park brake.
5. Stop the engine.
6. Remove the key.
7. Wait for engine and all moving parts to stop before you leave the operator's seat.
8. Close fuel shut-off valve, if your machine is equipped.

Practice Safe Maintenance

- Understand service procedure before doing work. Keep area clean and dry.
- Remove all weight and / or material from attachment before disconnecting unit from tractor.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower attachments to the ground before servicing machine. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals.



Parts

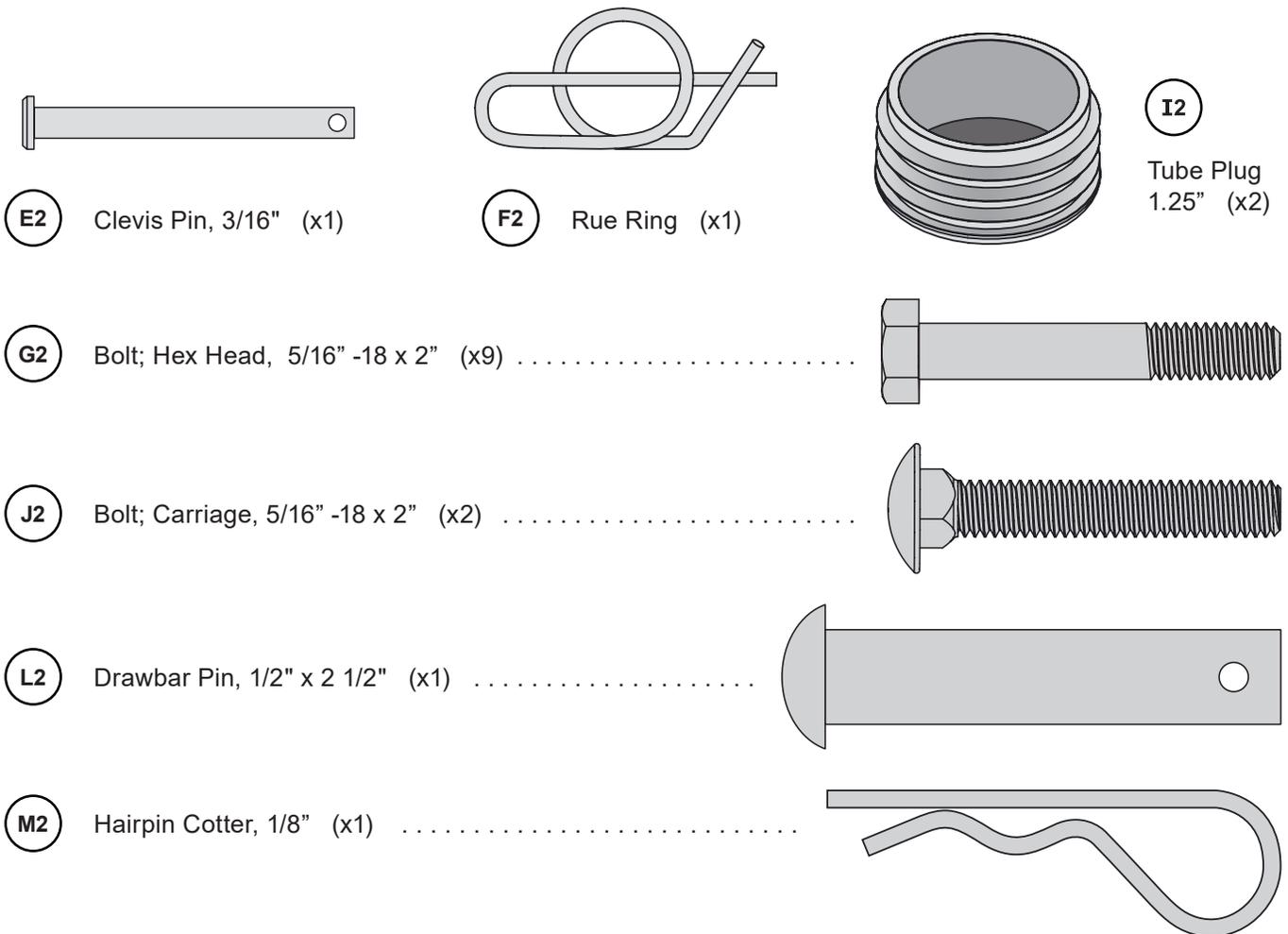
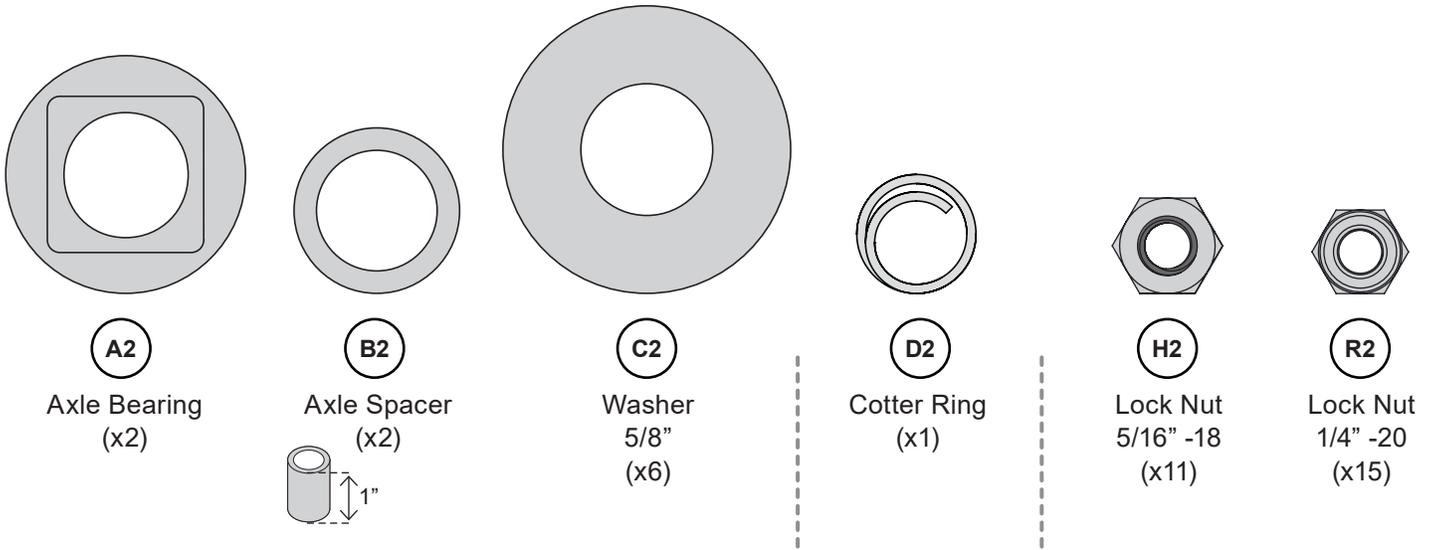


Parts in Box

Ref.	Description	Qty.	Ref.	Description	Qty.
(A)	Frame	1	(I)	Riser Bar	1
(B)	Transmission Assembly	1	(J)	Hopper Assembly	1
(C)	Wheels	2	(K)	Pivot Plate	1
(D)	Cross Brace	1	(L)	Lever Stop Bracket	1
(E)	Tow Bar	1	(M)	Gate Lever Handle	1
(F)	Clevis Plates	2	(N)	Linkage Arm	1
(G)	Support Brackets	2	(O)	Linkage Pivot	1
(H)	Fan	1	(P)	Cover	1
			(Q)	Screen	1

Hardware Identifier

Illustrations on this page are to scale for faster identification of hardware during assembly.



NOTE: An extra washer (C2) has been provided / may be remaining after assembly is complete.

Hardware Identifier

Illustrations on this page are to scale for faster identification of hardware during assembly.

The diagram illustrates various hardware components for assembly, organized into two main sections separated by a vertical dashed line. Each component is accompanied by a circular label with a code and a descriptive text with quantity.

- Washer 5/16" (x2)**: Labeled **K2**. Two circular washers of different diameters.
- Felt Washer (x2)**: Labeled **N2**. Two circular felt washers.
- Washer 1/4" (x5)**: Labeled **Q2**. Five circular washers of different diameters.
- Nylon Flange Bushing (x4)**: Labeled **U2**. Four circular bushings with a central hole.
- Spinner Clip (x1)**: Labeled **O2**. A long, thin metal clip with a curved end.
- Handle Knobs (x2)**: Labeled **W2**. Two rectangular knobs with three horizontal slots.
- Bolt, 1/4" -20 x 2" (x4)**: Labeled **P2**. Four long bolts with hex heads and threaded shafts.
- Bolt; Hex Head, 1/4" -20 x 1-3/4" (x3)**: Labeled **S2**. Three medium-length bolts with hex heads and threaded shafts.
- Bolt; Hex Head, 1/4" -20 x 2-1/4" (x1)**: Labeled **T2**. One long bolt with hex head and threaded shaft.
- Bolt; Hex Head, 1/4" -20 x 1-1/2" (x1)**: Labeled **V2**. One medium-length bolt with hex head and threaded shaft.
- Bolt, 1/4" -20 x 1" (x3)**: Labeled **X2**. Three short bolts with hex heads and threaded shafts.
- Linkage Pin (x1)**: Labeled **Y2**. A square pin with a threaded end.
- Agitator (x1)**: Labeled **A3**. A curved metal rod with a hook at one end.
- Linkage Rod (x1)**: Labeled **Z2**. A long metal rod with a 90-degree bend at one end and a threaded section at the other.

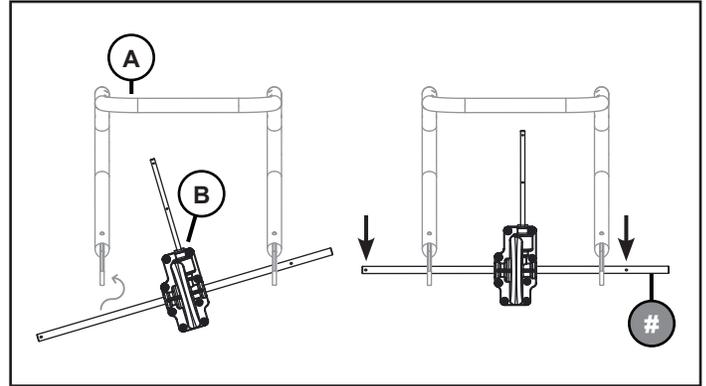
Assembly

Assembly Tip



The hardware pack for this assembly is organized in bags that are numbered to match the steps of this manual.

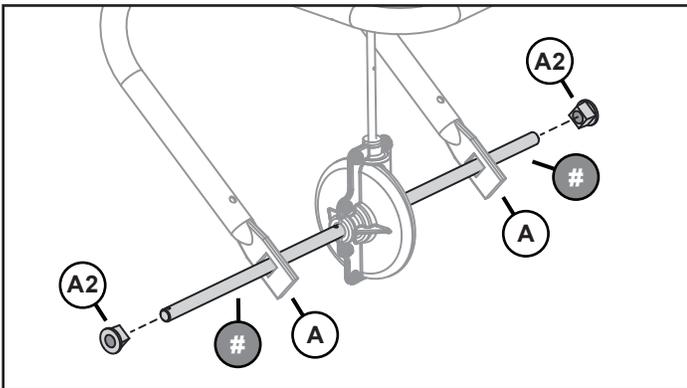
Step 1-A. Installing Axle



Alignment is crucial. The frame (A) and transmission (B) must be aligned as illustrated here.

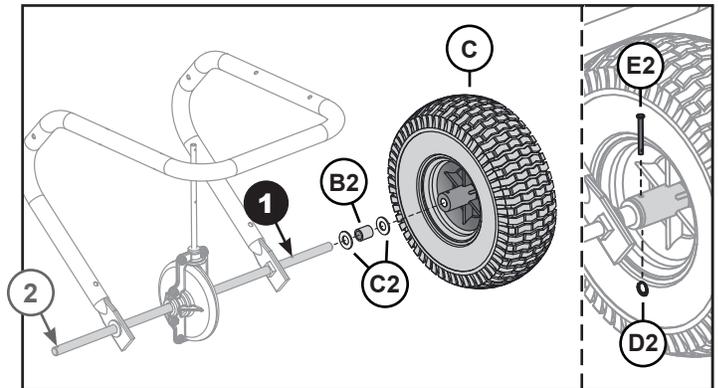
It is also important that the axle (#) is facing the correct direction. (Note the arrows pointing out locations of holes on the axle). Slide axle assembly (#) through the square holes at the base of the frame (A).

Step 1-B. Installing Axle



Add the bushings (A2) by sliding over the axle ends (#) and fitting in the square openings at the base of the frame (A).

Step 2. Install Drive Wheel

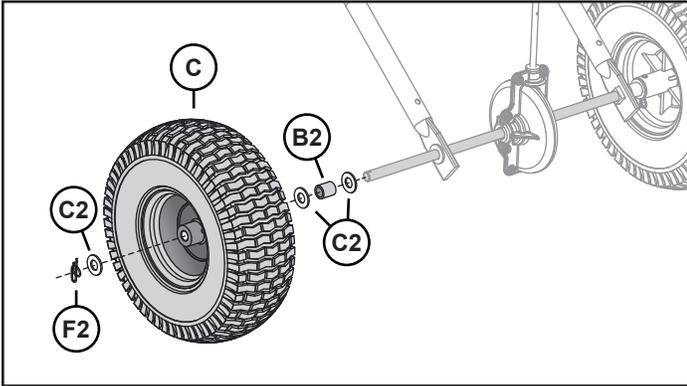


Note the location of the remaining axle holes. The wheel will need to be installed on the side marked "1" above.

- **On the (1) end of the Axle:** Add a 5/8" washer (C2), axle spacer (B2), a second 5/8" washer (C2), then the wheel (C).
- Secure the wheel in place with the 3/16" clevis pin (E2) and cotter ring (D2), as illustrated.

Assembly

Step 3. Install Second Wheel

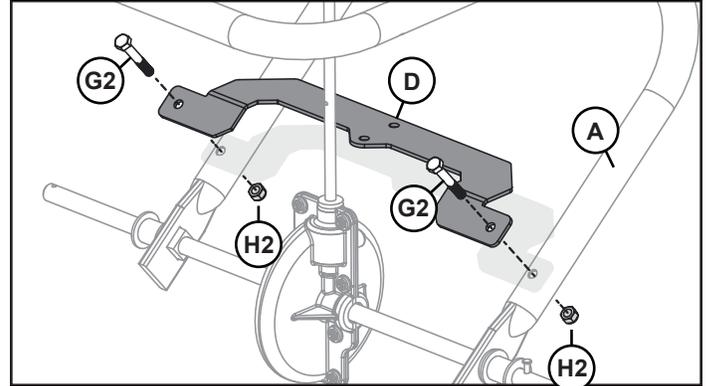


On the opposite end of the axle: Add a washer (C2), spacer (B2), another washer (C2), then the wheel (C).

After adding the wheel, add 1 to 2 washers (C2) as needed, then secure with the rue ring (F2).

NOTE: An extra washer will be provided.

Step 4. Adding the Cross Brace



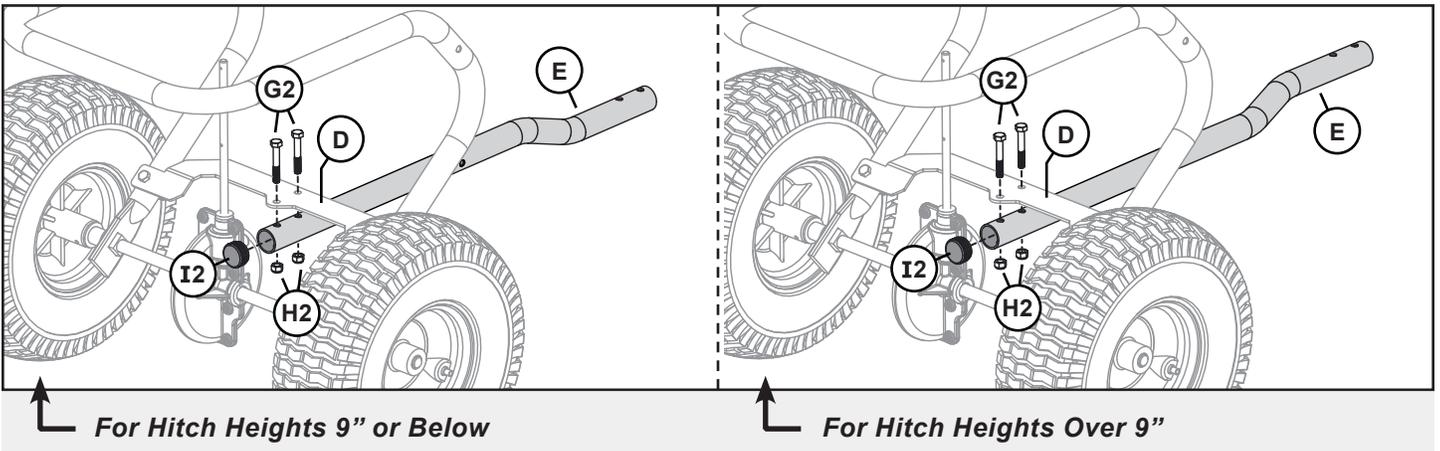
NOTE: Wheels not illustrated for clarity / proper alignment.

Align the cross brace (D) to the frame (A) as illustrated.

On each end, insert a 5/16" x 2" bolt (G2) and secure beneath the frame with a 5/16" locknut (H2).

Step 5. Attaching the Tow Bar

* For this step, you will need to measure the height of your mower hitch to the ground.



Align the tow bar (E) below the cross brace (D) as illustrated above.

LOOSELY bolt the towbar (E) to the cross brace using two 5/16" x 2" bolts (G2), securing from below with two 5/16" lock nuts (H2). Insert the 1.25" tub plug (I2) in the end of the towbar.

NOTE: These bolts will be tightened on step 8.

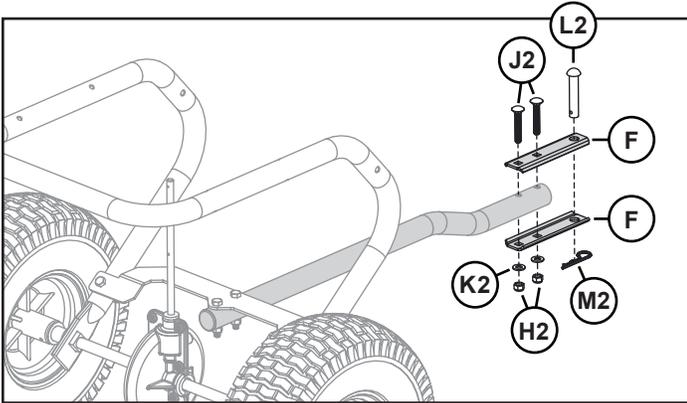
Align the tow bar (E) below the cross brace (D) as illustrated above.

LOOSELY bolt the towbar (E) to the cross brace using two 5/16" x 2" bolts (G2), securing from below with two 5/16" lock nuts (H2). Insert the 1.25" tub plug (I2) in the end of the towbar.

NOTE: These bolts will be tightened on step 8.

Assembly

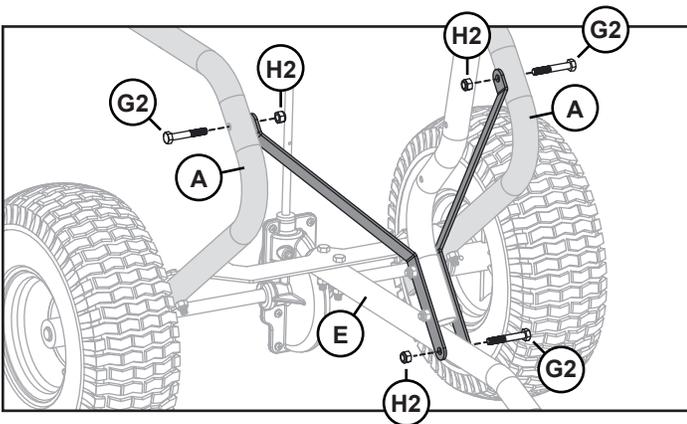
Step 6. Adding Clevis Plates



Align the clevis plates (F) with the towbar (E) as illustrated. Run two 5/16" x 2" carriage bolts (J2) through these parts and secure from below with two 5/16" washers (K2) and two 5/16" lock nuts (H2).

Add the drawbar pin (L2) and secure from below with a hairpin cotter (M2).

Step 8. Attach Support Brackets

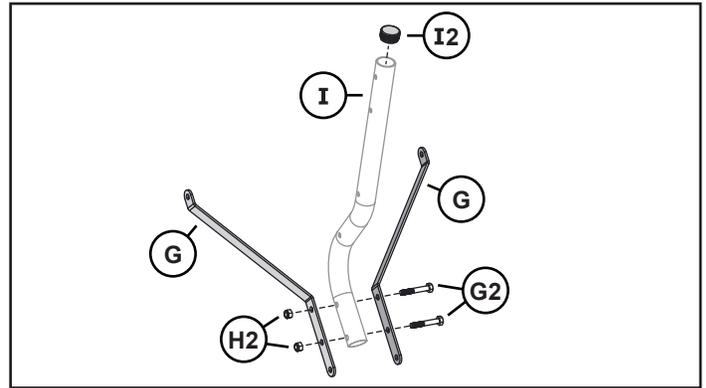


Align the assembly from Step 7 as illustrated. Next, **LOOSELY** bolt the frame support brackets to the towbar (E) and frame (A) using:

- (x3) 5/16" x 2" Bolts (G2)
- (x3) 5/16" Lock Nuts (H2)

After ensuring the towbar is squared up to the frame, tighten all bolts from steps 5 and 7.

Step 7. Frame Support Brackets

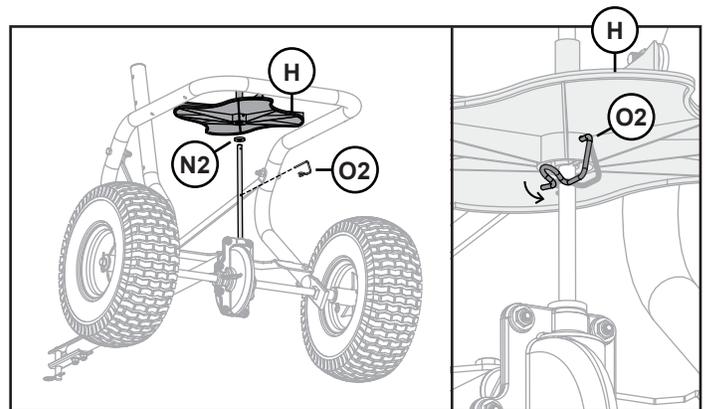


Insert the tube plug (I2) in the long end of the riser bar (I). Align the frame support brackets (G) with the riser bar (I) as illustrated. **LOOSELY** bolt these parts using:

- (x2) 5/16" x 2" Bolts (G2)
- (x2) 5/16" Lock Nuts (H2)

NOTE: This hardware will be tightened on step 8.

Step 9. Adding Fan



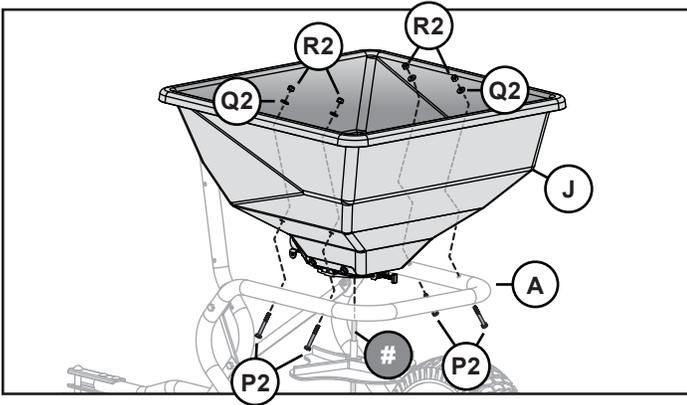
Slide the felt washer (N2) and fan (H) on the fan shaft.

Look for the hole at the middle of the fan shaft. This is where the fan will rest (see illustration) as the spinner clip (O2) slides through the base of the fan (H).

NOTE: Secure by tilting the clip down and apply slight pressure to snap in place around the fan shaft.

Assembly

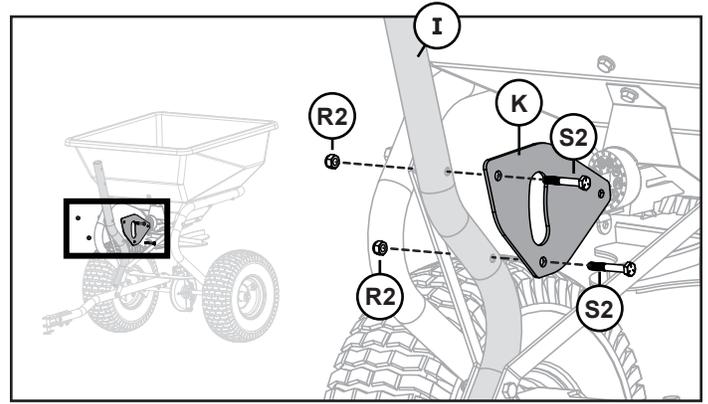
Step 10. Installing Hopper



Place the hopper assembly (J) on top of the frame (A). Slide the fan shaft (#) through the bushing in the hopper bottom plate. Secure the hopper to the frame by using the following as illustrated above:

- (x4) 1/4" x 2" Bolts (P2)
- (x4) 1/4" Washers (Q2)
- (x4) 1/4" Lock Nuts (R2)

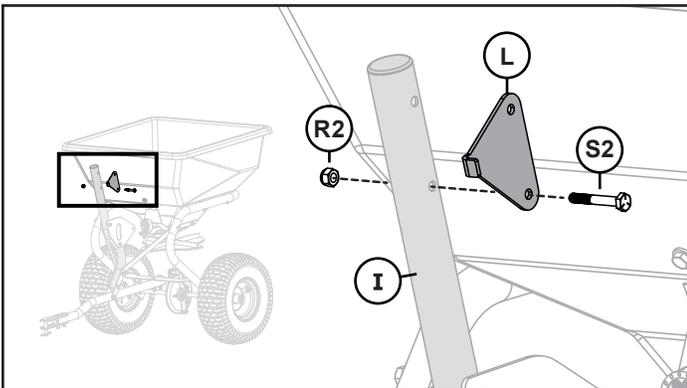
Step 11. Adding Pivot Plate



Align the pivot plate (K) to the riser bar (I) as illustrated. Secure with:

- (x2) 1/4" x 1-3/4" Bolts (S2)
- (x2) 1/4" Lock Nuts (R2)

Step 12. Lever Stop Bracket

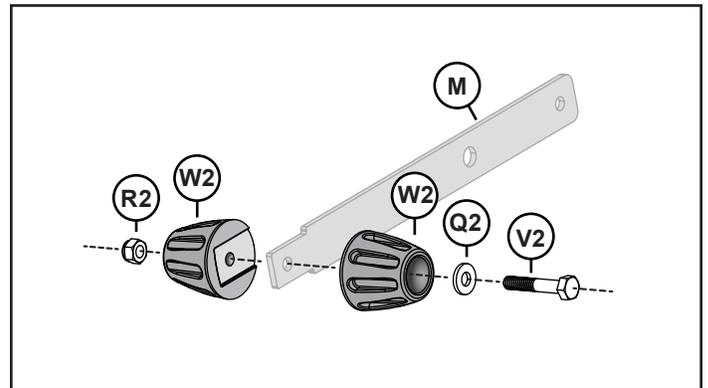


As illustrated here, align the lever stop bracket (L) holes with the openings at the top of the riser bar (I).

For now, secure in place **only through the LOWER of the two bolt holes** using:

- (x1) 1/4" x 1-3/4" Bolt (S2)
- (x1) 1/4" Lock Nut (R2)

Step 13-A. Adding the Gate Lever

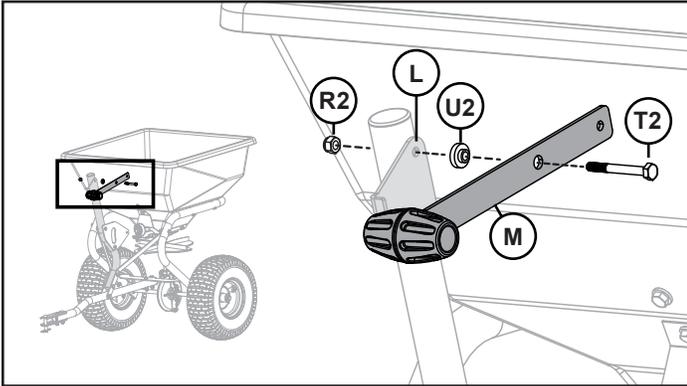


Assemble the gate lever handle (M) as illustrated using the following parts:

- (x1) 1/4" x 1-1/2" Hex Head Bolt (V2)
- (x1) 1/4" Flat Washer, SAE (Q2)
- (x2) Handle Knobs (W2)
- (x1) 1/4" Lock Nylon (R2)

Assembly

Step 13-B. Adding the Gate Lever

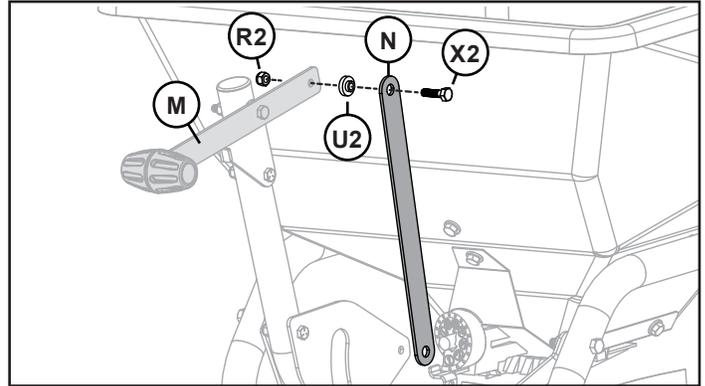


Align the gate lever (M) assembled in step 13-A with the stop bracket (L). Bolt **GENTLY** using the following parts:

- (x1) 1/4" x 2-1/4" Hex Head Bolt (T2)
- (x1) Nylon Flange Bushing (U2)
- (x1) 1/4" Lock Nut (R2)

NOTE: Bolt together allowing the lever to pivot but can't move freely (snug but not tight).

Step 14. Linkage Arm

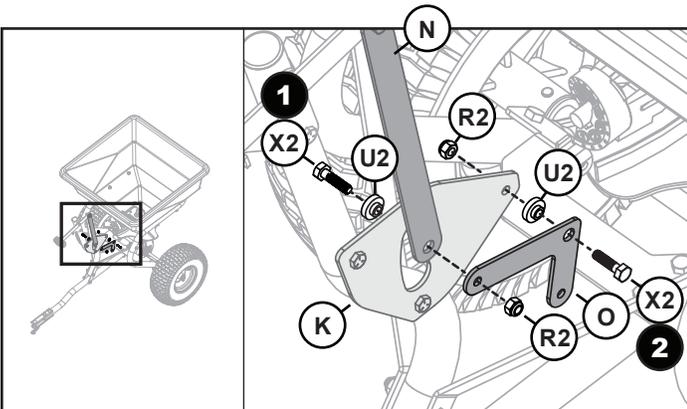


Place a Nylon Flange Bushing (U2) between the linkage arm (N) and gate lever (M). Bolt together using:

- (x1) 1/4" x 1" Bolt (X2)
- (x1) 1/4" Lock Nut (R2)

NOTE: Bolt together snug but not tight.

Step 15. Linkage Pivot



Attach linkage pivot (O) with hardware in the following order:
NOTE: Bolt together snug but not tight.

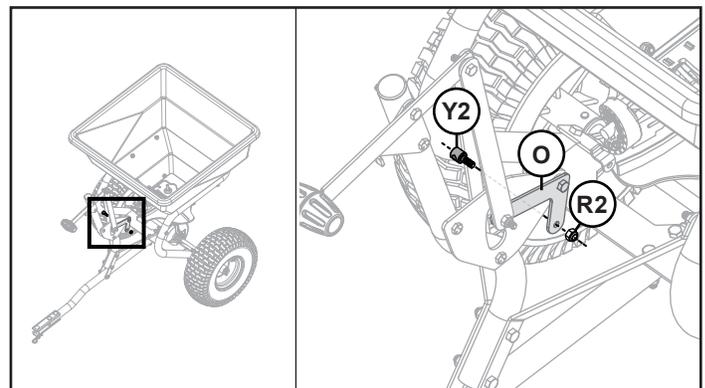
Bolt 1:

- 1/4" x 1" Bolt (X2)
- Flange Bushing (U2)
- Pivot Plate (K)
- Linkage Pivot (O)
- Linkage Arm (N)
- 1/4" Lock Nut (R2)

Bolt 2:

- 1/4" x 1" Bolt (X2)
- Linkage Pivot (O)
- Flange Bushing (U2)
- Pivot Plate (K)
- 1/4" Lock Nut (R2)

Step 16. Linkage Pin



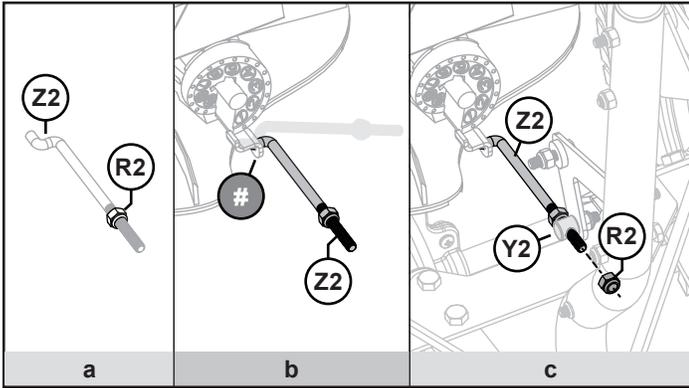
Attach the linkage pin to the base of the linkage pivot (O) that was added on step 15.

- (x1) Linkage pin (Y2)
- (x1) 1/4" Lock Nut (R2)

NOTE: Bolt together snug but not tight.

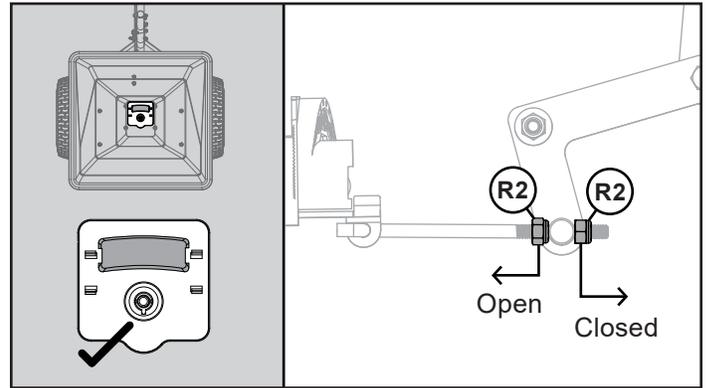
Assembly

Step 17-A.



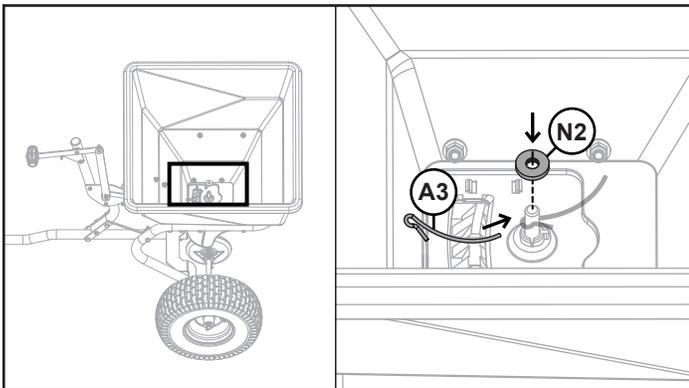
- On the linkage rod (**Z2**): Add a 1/4" lock nut (**R2**), stop at about 3/4 of the thread length.
- Insert the bent portion of the linkage rod (**Z2**) through the hole in the gate link (**#**), as illustrated.
- Insert the threaded portion of the linkage rod (**Z2**) through the hole in the linkage pin (**Y2**) and secure with the second lock nut (**R2**).

Step 17-B.



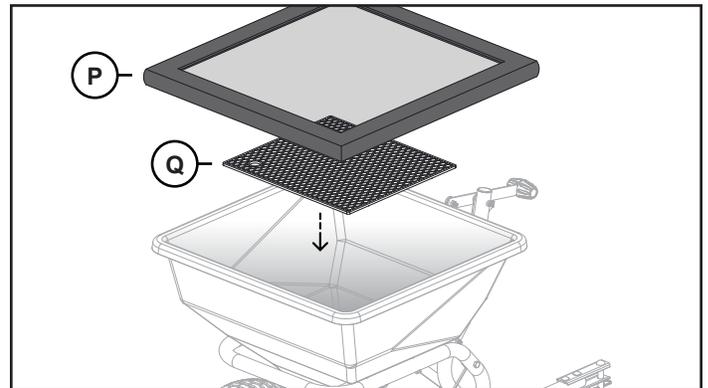
Adjust the position of the two lock nuts (**R2**) that were added on step 17-A such that the gate is no more than 1/16" past the fully closed position.

Step 18.



Slide the felt washer (**N2**) onto the fan shaft and insert the agitator pin (**A3**).

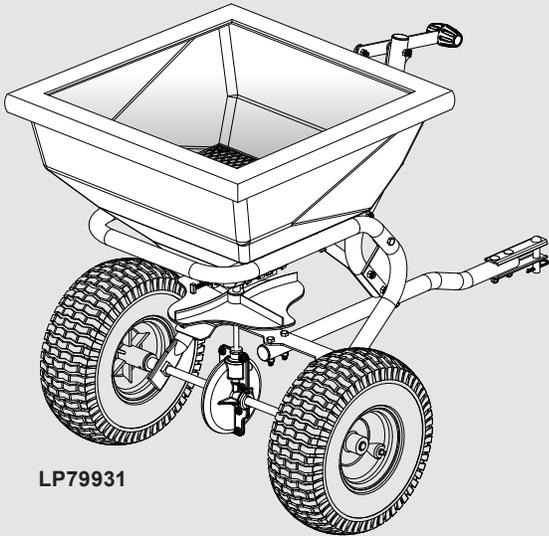
Step 19.



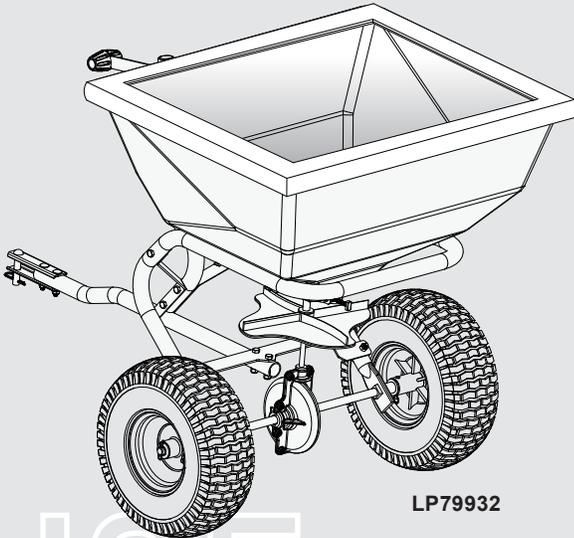
Place the screen (**Q**) down inside the hopper. Attach the hopper cover (**P**) by hooking it around the rim of the hopper.

Use and Care

LP79931 & LP79932 Tow Behind Spreaders



LP79931



LP79932

USE
& CARE

Specifications

150 lb Spreader - LP79931

Capacity

Spreader Weight 44 lbs (20.0 kg)
 Hopper Capacity 150 lbs (68.0 kg)
 Max Combined Weight 194 lbs (88.0 kg)

Tires

Pneumatic 15 x 6 NHS 2-Ply Rating
 Inflation Pressure 30 psi (207 kPa)

Hopper

Volume 2.3 ft³ (0.07 m³)
 Material High Density Polyethylene

200 lb Spreader - LP79932

Capacity

Spreader Weight 49 lbs (20.2 kg)
 Hopper Capacity 200 lbs (90.7 kg)
 Max Combined Weight 249 lbs (112.9 kg)

Tires

Pneumatic 15 x 6 NHS 2-Ply Rating
 Inflation Pressure 30 psi (207 kPa)

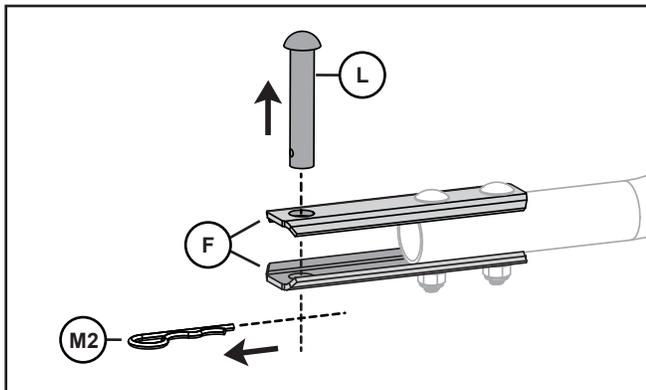
Hopper

Volume 3.5 ft³ (0.1 m³)
 Material High Density Polyethylene

Use and Care

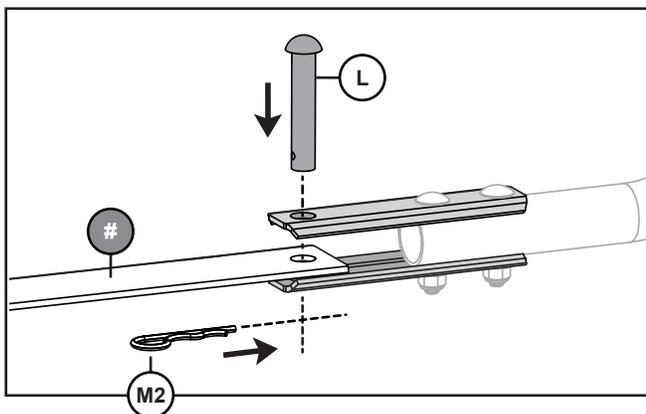
Installing

1. Park machine safely.
(See *Parking Safely in the SAFETY section.*)



2. Remove spring locking pin (M2) and hitch pin (L) from clevis plates (F) of spreader.
3. Pull spreader forward and position hitch clevis (#) to straddle machine rear hitch plate or drawbar (shown below).

Align all hitch pin holes, then install hitch pin (L) down through hitch clevis and machine hitch, securing with spring locking pin (M2).



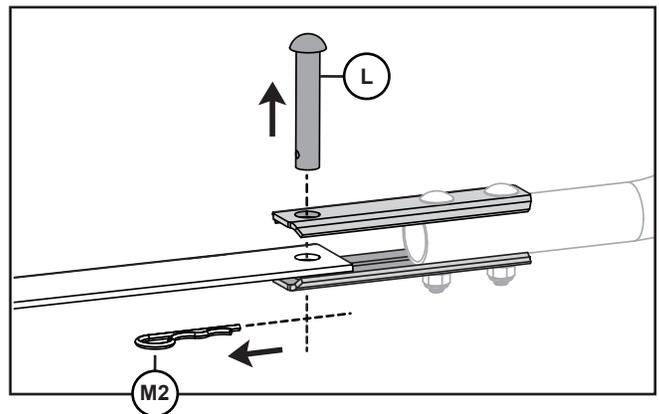
Removing

1. Park machine safely. See "Parking Safely" in the Safety section.
2. Remove all materials from the hopper before removing spreader from machine.

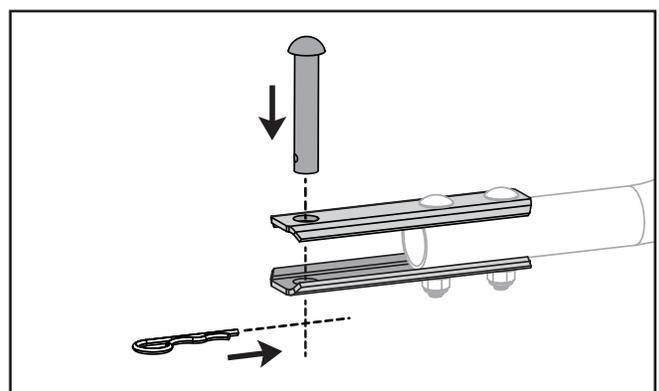


CAUTION: Avoid injury! Keep hands, feet and other body parts away from under the drawbar.

3. Remove 1/8 in. spring locking pin (M2) from hitch pin.



4. Hold spreader tow tube to remove pressure from hitch pin, then remove hitch pin (L) from hitch clevis and rear hitch plate or drawbar on machine.



5. Pull or push spreader backward to disengage hitch clevis from machine hitch, install hitch pin in hitch clevis for storage and secure with 1/8 in. spring locking pin.

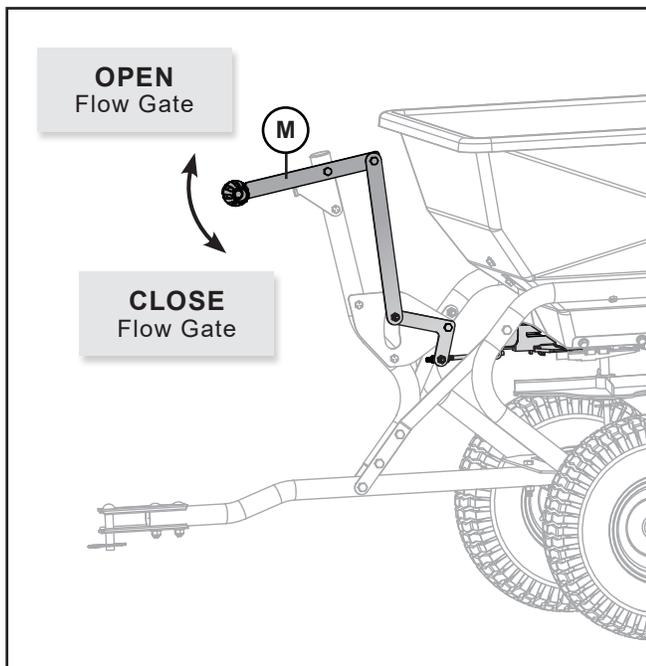
Use and Care

Before Operating the Spreader

1. Inflate tires to 30 psi (2 bar) (207 kPa) maximum.
2. Check bushings and bearing surfaces for proper lubrication (*See service section*).
3. Be sure controls operate smoothly and spreader wheels turn freely.
4. Before filling hopper, practice spreading. Become accustomed to operating the on/off control lever while spreader is in motion.

On / Off Control Lever

1. Use On / Off control lever (**M**) to open and close hopper gate while spreader is in motion. *This starts and stops material flow.*
2. To **OPEN** the flow gate:
Move control lever (**M**) towards spreader.
3. To **CLOSE** flow gate.
Move control lever away from spreader.



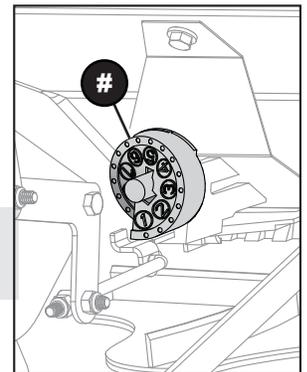
Using the Flow Control Dial

Flow control dial (**#**) rotates to adjust the opening size in hopper bottom.

Dial has nine numbers with ten positions between each number for fine adjustment.

Small numbers provide the smallest opening.

Turn dial to adjust for desired application flow.

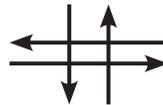


Determining Application Flow Setting

1. Check material manufacturer's container for recommended application flow and setting for John Deere spreaders. If no recommendation is found for John Deere spreaders, use setting for similar type spreaders sold by other companies.
2. Use application flow setting charts when spreading grass seed or when material size and desired coverage is known, but no setting is recommended by the material manufacturer.

Operation

Understanding Full and Half Flow Settings

TWICE OVER - 1/2 Flow	
Full Flow Once Over	Half Flow Twice Over
	
2.0	1.50
2.5	2.00
3.0	2.25
3.5	3.00
4.0	3.50
4.5	3.90
5.0	4.20
5.5	4.70
6.0	5.00
6.5	5.30
7.0	5.70
7.5	5.80
8.0	6.00
8.5	6.50
9.0	7.10

^

“Full Flow” setting is used when single pass (once over) operation is planned.

^

“Half Flow” setting is used for two pass (twice over) operation and improved coverage.

NOTE: Half Flow is a proportional reduction of Full Flow not one-half of Full Flow. For half flow application, set flow control dial according to “Half Flow” value shown in appropriate table. Do not set flow dial at half the recommended full flow value.

Filling the Spreader

1. Attach hitch to tractor/mower with hitch pin. Fasten with spring pin.



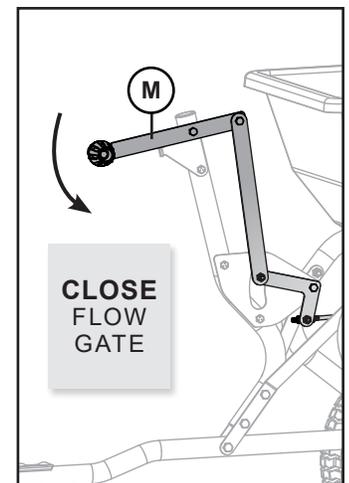
CAUTION: Avoid injury!
Chemicals can be dangerous.

Avoid injury to operator or bystanders:

- Read chemical container label for handling instructions. A Material Safety Data Sheet (MSDS) should be supplied by the chemical dealer and provides proper safety information.
- Wear proper clothing and safety equipment while handling or applying chemicals.
- Prohibit all smoking, drinking, and eating around chemicals.

2. Use the On / Off control lever (M) to close product gate at hopper bottom.

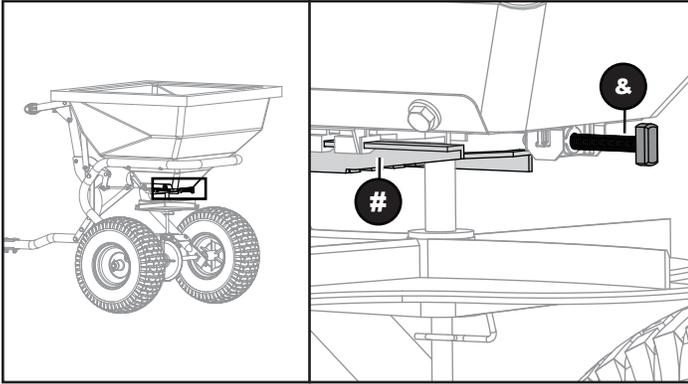
NOTE:
Fill spreader on a flat, level surface. Spreader may be unstable when fully loaded on an incline. Fill spreader according to manufacturer's instructions only. Overfilling may cause instability or damage to the spreader.



3. To avoid material loss, fill spreader on a sidewalk, driveway, plastic sheet or cardboard.

Operation

Adjusting Spread Pattern



Adjusting knob (&) moves diffuser plate (#) forward and backward to center spread pattern and reduce side-throw (or skewing).

NOTE: The spread pattern can be affected by many variables such as humidity, temperature, wind, spreader condition, speed of travel, material size, & weight. Proper adjustment will minimize spread pattern skewing and uneven coverage.

MANY VARIABLES CAN AFFECT THE SPREADING PATTERN:

- Product size, weight, shape, surface finish
- Spreading rate (light, medium, heavy)
- Weather conditions
- Operating speed
- Tilting of spreader
- Condition of spreader and spreader spinner

Because of these variables, the diffuser plate must be set for each type of application.

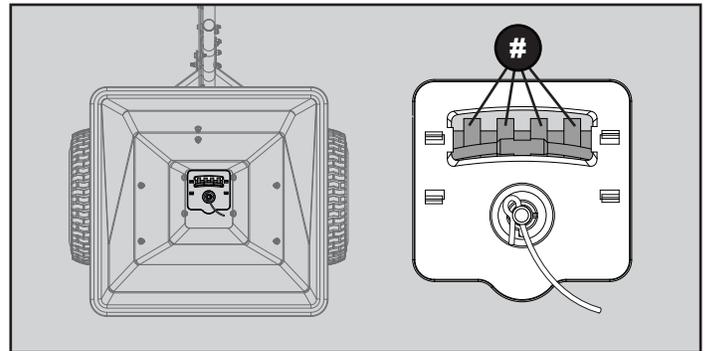
USE THE FOLLOWING PROCEDURE WHILE SETTING THE SPREAD PATTERN.

NOTE: This adjustment is very sensitive. Turning diffuser knob (&) just a little will result in drastic change to the spread pattern.

1. On a flat, bare surface such as a paved driveway, operate the spreader and observe the spreading pattern. If spreading pattern is centered around spreader, do not adjust diffuser.
2. If spreading pattern is not centered around spreader, adjust as follows and retest:

NOTE: Adjusting the spread pattern will not change the width of spread.

Never adjust so the diffuser plate splits the material flow to both center and outside of spreader. (Knob centered between full clockwise and full counterclockwise.)



If spreading is long to the left of center, turn diffuser knob counterclockwise all the way; then turn knob clockwise until edge of diffuser plate (#) directs material slightly to outside of spreader as it falls on the spinner and test pattern is centered.

If spreading is long to the right of center, turn diffuser knob clockwise all the way; then turn knob counterclockwise until edge of plate directs material slightly to center of spreader as it falls on the spinner. Continue to turn knob in small increments until test pattern is centered.

Operation

Spreading the Material

Two methods of spreading the material, Dual Pass and Single Pass are described below:

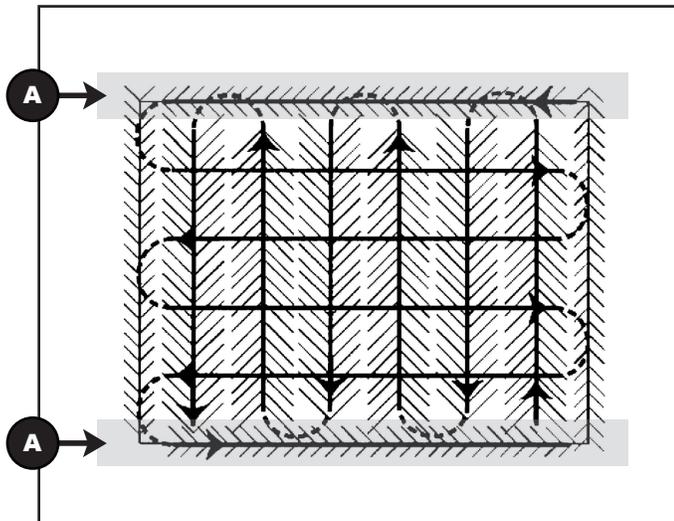
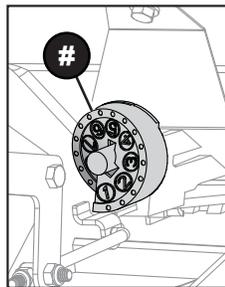
Dual Pass Coverage

(Preferred Method)

NOTE: This method is also known as the “Half Flow” method, which consists of making two passes in cross directions with flow control dial set at a half flow setting. This method provides the most complete coverage while correcting for operation or flow errors made with a single pass.

1. Set flow control dial (#) to “Half Flow” setting described in the “Understanding Full and Half Flow” section on page 17.

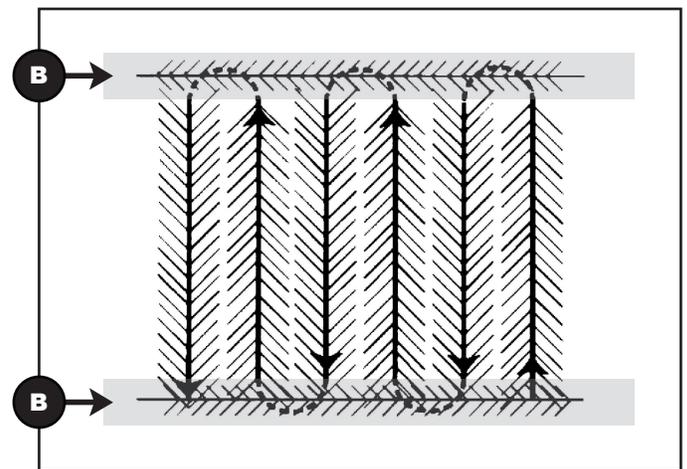
NOTE: “Half Flow” is a proportional reduction of “Full Flow”, not one-half of “Full Flow.” See Flow Setting Tables.



2. Spread header strips (A) at each end of area. This allows a turn-around area to align spreader for next pass.
3. Make passes between header strips at each end of area. (Refer to “Keys to Uniform Spreading” covered previously in manual).
4. Repeat steps two and three using passes in cross direction to those used previously.

Single Pass Coverage

NOTE: This is also known as the “Full Flow” method, which consists of making a single pass over area with flow control dial set at full flow setting.



1. Set flow control dial to “Full Flow” setting (See flow setting tables earlier in this manual.).
2. Spread header strips (B) at each end of area. This allows a turn-around area to align spreader for next pass.
3. Make passes between header strips at each end of area. (Refer to “Keys to Uniform Spreading” covered previously in manual).

IMPORTANT: Avoid damage!



Never leave fertilizer in the hopper. Fertilizer draws moisture, forms clumps, causes unnecessary rusting and deterioration of spreader, and may jam controls and other moving parts. Salt residue is especially corrosive. Clean and oil spreader immediately after each use.

Operation / Service

Operating Tips for Uniform Spreading

1. Keep spinner blades clean. A buildup of material on the spinner blades can cause uneven spreading.
2. Use on/off control to open and close product gate only when spreader is in motion. Close product gate as you enter turn-around areas.
3. Maintain even, normal travel speed of 3 mph / 264 fpm (4.8 kph/80 meters per min). Faster travel throws material further for a wide spread pattern and lighter coverage. Slower travel spreads a narrow pattern with heavier coverage.
4. Travel in straight rows. Keep your eyes on the far end of the area to keep spreader in alignment with previous pass.

NOTE: *Spreader tapers the spreading edge, which allows you to operate at approximately spreading widths. Extra material can be spread under trees and other high feeding areas without showing the spreading edges.*

Spreading Ice Melt

NOTE: *Use higher flow settings (5 - 9) for wider product opening when spreading ice melt.*

1. Install agitator to break up clumps
2. Starting with flow setting at 5, make a trial pass over the spreading area and check coverage. Adjust flow setting up to improve coverage or down to reduce coverage.



IMPORTANT: Avoid damage! Clean and lubricate axle bearings after spreading ice melt to avoid damage to bearings.

3. After spreading, be sure to thoroughly rinse the ice melt dust from all surfaces, as ice melt is highly corrosive.

Cleaning and Lubricating after Each Use

Clean and oil spreader immediately after each use. Choose one of the following methods:

- Wash, rinse and dry spreader. Drying takes time since moisture trapped in bearing areas is slow to drain or evaporate.
- Wipe spreader thoroughly with an oily cloth.



CAUTION: Avoid injury! Compressed air can cause debris to fly a long distance.

- Clear work area of bystanders.
- Wear eye protection when using compressed air for cleaning purposes.
- Reduce compressed air pressure to 210 kPa (30 psi).
- Blow off spreader with compressed air. *(Keep spreader dry.)*

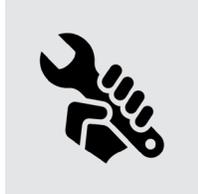
Above methods are listed in order of preference. A good oil wiping or dry cleaning is preferable to poor washing and drying. It is almost impossible for rust and corrosion to form on a clean, dry, oiled surface.

When spreader is completely dry, lubricate all moving parts, especially spinner drive, hopper bottom, wheel bushings and gears. Reference the Service Section for procedures.

Service

Maintenance Tips

- The key to years of trouble-free service is to keep your spreader clean and dry.
- Never allow material to remain in the hopper for extended periods of time.
- Should rust develop, sand lightly and then paint area with enamel.
- Periodically check all fasteners for tightness.
- Rinse / dry inside and outside of spreader after each use. Move flow control as you rinse, to avoid build up of material.



Lubrication Intervals

Under normal operating conditions, lubricate the spreader 3-4 times a year.

NOTE: *Lubricate more often if frequently operated under adverse conditions.*

Recommended Lubricants

- Use John Deere Multi-Purpose Lithium Grease
- Lubricate Bushings and Bearing Surfaces

Lubrication Application

SILICONE SPRAY LUBRICANT

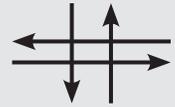
Apply the John Deere Aerosol Silicone Spray Lubricant to:

- Axle/Frame bushings (1) (*remove and wipe*).
- Idler wheel hub (2) (*or bushings—if equipped*).
- Hopper bottom bushing (3)

LUBRICATE DRIVE GEARS

- Lubricate gearbox by applying 3-4 shots of grease into grease fitting (4).

Settings



Application Flow Settings By material size and Coverage

Material	Particle Size	Lbs. per 1000 Sq. Ft.	Full Flow Once Over	Half Flow Twice Over
Large Heavy Pellets		2.00	3.8	3.3
		4.00	4.9	4.1
		6.00	5.9	4.9
Medium Pellets and Granules		2.00	3.5	3.0
		4.00	4.2	3.8
		6.00	5.2	4.5
Nitrogen Pellets: Medium Size		1.00	3.5	3.0
		2.00	4.2	3.7
		3.00	4.7	4.0
Small Pellets		2.00	3.0	2.2
		4.00	4.2	3.7
		6.00	4.5	4.0
Mixed Fines		2.00	3.7	3.2
		4.00	4.7	4.1
		6.00	5.2	4.5
Fines		1.00	3.6	3.1
		2.00	4.0	3.5
		3.00	4.2	3.7

Grass Seed Flow Settings

Seed Type	Spread Width * (in Feet)	Lbs. per 1000 Sq. Ft.	Full Flow Once Over	Half Flow Twice Over
Bent Grass or Red Top	4	0.50	1.25	
		1.00	2.00	
		2.00	2.50	
Park, Merion, Delta or Kentucky Bluegrass	4	0.50	2.50	
		1.00	3.00	
		2.00	3.50	
Hulled Bermuda	6	2.00	2.75	2.25
		3.00	3.00	2.50
		4.00	3.25	2.75
Mixtures (Including coarse seed)	6	2.00	6.00	
		4.00	6.50	
		6.00	7.00	
Rye Grasses and Tall Fescue	6	2.00	6.00	
		4.00	7.00	
		6.00	7.75	
Dichondra	8	0.25	1.90	
		0.50	2.10	
		0.75	2.50	
Pensacola Bahia	7	4.00	4.50	3.75
		5.00	4.75	4.00
		6.00	5.00	4.25

^
Spread width is based on normal (brisk) operating speed of 2.5 mph / 220 fpm (4.8 kph / 80 meters per min.).

^
Use "Full Flow" setting when single pass (once over) operation is planned.

^
Use the "Half Flow" setting for two pass (twice over) operation and improved coverage.

Storage / Quality

Storing the Spreader

1. Thoroughly clean and lubricate spreader before storing. (See *Service Section*.)
2. Apply touchup paint to scratches to prevent rust.
3. Inflate tires to 30 psi (2 bar) (207 kPa) maximum.
4. Store spreader in an out-of-the-way place. Spreader can be tipped upright or hung to remove weight from tires/wheels. Do not use spreader as a shelf. Placing weight on spreader can distort tires/wheels over a period of time.

Removing from Storage

1. Inflate tires to 30 psi (2 bar) (207 kPa) maximum.
2. Perform all lubrication procedures as shown in the Service section.
3. Check and adjust on/off control.
4. Review Safety and Operating sections of this manual.

John Deere Quality Continues with Quality Service

John Deere provides a process to handle your questions or problems, should they arise, to ensure that product quality continues with quality parts and service support.

Follow the steps below to get answers to any questions you may have about your product.

1. Refer to your attachment and machine operator manuals.
2. In North America or Canada, call Brinly-Hardy Co. Customer Service at 1-866-218-8622 and provide the product serial number (if available) and model number.

This product was manufactured by Brinly-Hardy Co., a John Deere Licensee, located at 3230 Industrial Pkwy, Jeffersonville, IN 47130. If you have any questions or concerns with the assembly, installation or operation of this attachment see your local John Deere Dealer or call Brinly-Hardy Co. at 866-218-8622 for assistance.

IMPORTANT: AVOID DAMAGE!

Never leave fertilizer in hopper.



Fertilizer draws moisture, forms clumps, causes unnecessary rusting and deterioration of spreader, and may jam controls and other moving parts. Salt residue is especially corrosive. Clean and oil spreader immediately after each use.

Storage Tip

The spreader can be tipped upright and stored against a wall, using less space:

1. Remove any loose material from the hopper and fan using a brush and garden hose. *The spreader should be clean and dry before storing.*
2. Roll spreader to desired storage area, lift hitch clevis to pivot spreader to vertical position.



Warranty

Limited Warranty for New John Deere Licensed Products

A. General Provisions – The warranties described below are provided by manufacturer, Brinly Hardy Company, on John Deere Licensed products to the original purchaser of new Lawn and Garden attachments from authorized John Deere Dealers & Retailers. Under these warranties, the manufacturer will repair or replace, at its option, any covered part found to be defective in material or workmanship during the applicable warranty term. The purchaser will be responsible, however, for any service call and / or transportation of product to and from the dealer's place of business, for any premium charged for overtime labor requested by the purchaser, and for any service and/or maintenance not directly related to any defect covered under the warranties below.

B. What is warranted – All parts of any new John Deere Licensed product, are warranted for the number of months specified below. When you call please have the serial number, if applicable, and model number.

C. What is not warranted – 1) Used products; (2) Any product that has been altered or modified in ways not approved by the manufacturer; (3) Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions, misuse, lack of proper protection during storage, or accident; (4) normal maintenance parts and service.

D. Securing Warranty Service – To secure warranty service, the purchaser must (1) report the product defect to an authorized dealer, or to the manufacturer by calling 866-218-8622, and request repair within the applicable

warranty term, (2) present evidence of the warranty start date, and (3) make the product available to the dealer or service center within a reasonable period of time.

E. Limitation of implied warranties and other remedies – To the extent permitted by law, neither John Deere nor any company affiliated with it makes any warranties, representations or promises as to the quality, performance or freedom from defect of the equipment covered by this warranty. Implied warranties of merchantability and fitness for a particular purpose, to the extent applicable, shall be limited in duration to the applicable period of warranty set forth on this page. The purchaser's only remedies in connection with the breach or performance of any warranty on the John Deere Lawn and Garden attachments are those set forth on this page. In no event will the Dealer, John Deere or the manufacturer be liable for incidental or consequential damages. (Note: Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages so the above limitations and exclusions may not apply to you.) This warranty gives you specific legal right, and you may also have other rights, which vary from state to state.

F. No Dealer Warranty – The selling Dealer makes no warranty of its own and the Dealer has no authority to make any representation or promise on the behalf of John Deere or the manufacturer to modify the terms or limitations of the warranty in any way.

Manufacturer's Lawn & Garden Attachments	*Warranty Term
Steel Frame	2 Years
Transmission (gearbox)	2 Years
Poly Hoppers & Beds	2 Years
Wheels	1 Year
Hydraulics	1 Year
Drive Gears	1 Year
Other normal wear parts	1 Year

**Each Warranty Term begins on the date of product delivery to the purchaser.*

Register your John Deere Licensed Product by completing & mailing in the enclosed Warranty Registration Card.
For Customer Service: Please call 866-218-8622