

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Broadcast Spreader
LPBST-35JD

OMM155003 J5

OPERATOR'S MANUAL



JOHN DEERE

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North American Version
Litho in U.S.A.

INTRODUCTION

Introduction

Using Your Operator's Manual

This manual is an important part of your machine and should remain with the machine when you sell it.

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.

Specifications and design are subject to change without notice.

SAFETY

Safety

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

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 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.

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.

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.

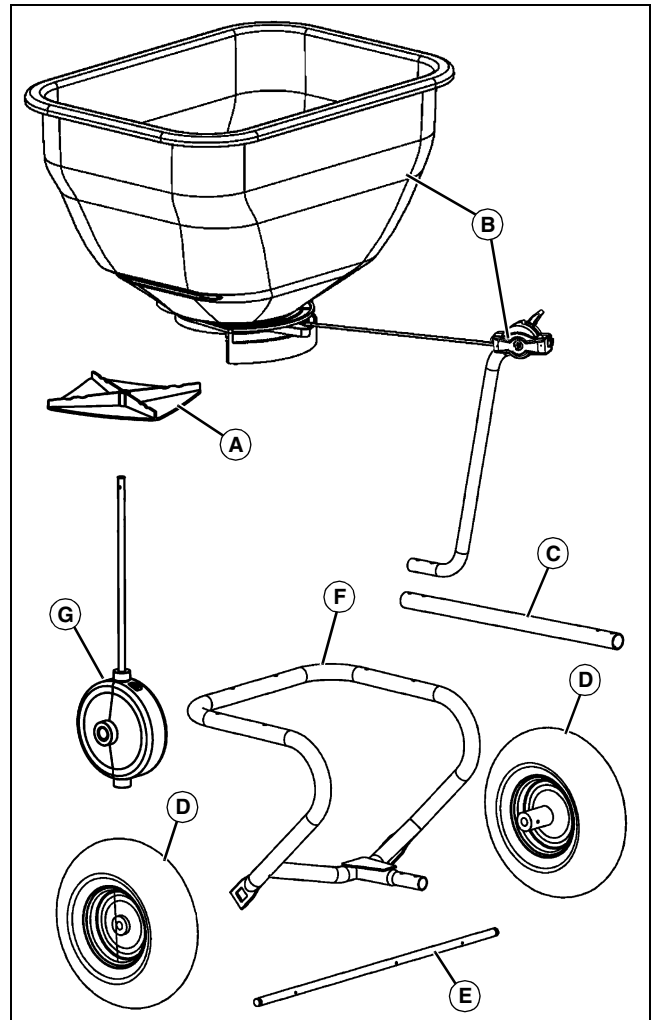
Keep Feet From Under Drawbar

Before you disconnect an attachment from machine hitch plate:

- Unload attachment.
- Stop attachment on level ground.
- Stop machine engine.
- Lock machine park brake.
- Block attachment wheels.
- Make sure feet are not under drawbar.

Assembly

Parts in Kit



MX34594

Qty.	Description
1	Fan (A)
1	Hopper Assembly and Control Support (B)

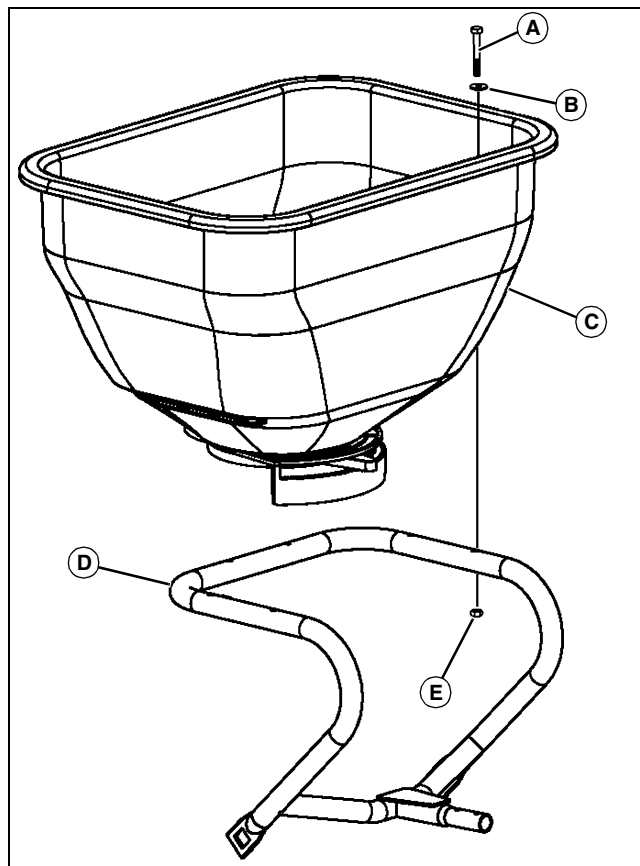
ASSEMBLY

Assemble Hopper and Transmission to Frame

Qty.	Description
1	Tube, Tow (C)
2	Wheel (D)
1	Axle (E)
1	Support Frame, Hopper (F)
1	Transmission (G)

Bag of Parts - Hardware (Small Bag)

Qty.	Description
4	Locknut, 5/16 in.
2	Nut, 5/16 in.
2	Bolt, Hex, 5/16 x 3 in.
2	Carriage Bolt, 5/16 x 2 in.
1	Hitch Pin, 1/2 x 2-1/2 in.
1	Spring Locking Pin, 1/8 in. (Small)
6	Washer, Flat, 5/8 in.
2	Spring Locking Pin (Open)
1	Spring Locking Pin (Closed)
6	Locknut, 1/4 in.
6	Bolt, Hex, Stainless, 1/4 x 1-3/4 in.
1	Cotter Pin, 1/8 x 1 in.

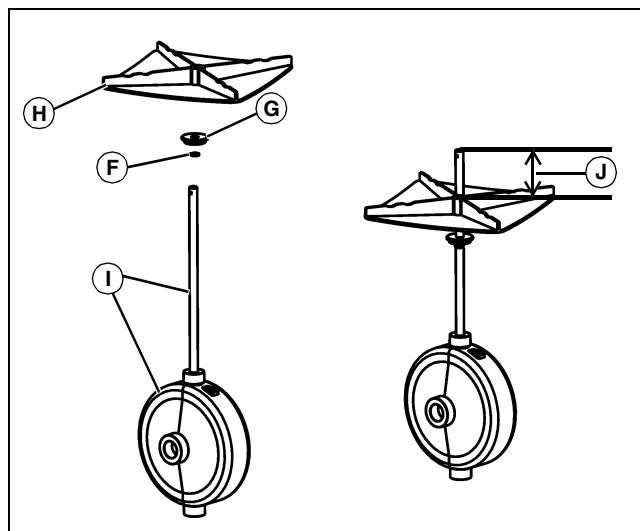


MX34596

1. Install six 1/4 x 1-3/4 in. hex bolts (A), and 1/4 in. thrust washer (B) through top of hopper (C) and through support frame (D), as shown. Secure bottom of bolt with 1/4 in. locknut (E). To avoid damage to plastic, do not overtighten hardware.

Bag of Parts - Hardware (Large Bag)

Qty.	Description
2	Clevis, Hitch
2	Bearing, Axle
2	Snap Ring, E-Type
6	Washer, Thrust, 1/4 in.
1	O-Ring, 3/8 in. ID
1	Spring, Agitator (Stainless)
1	Lock Clip
1	Driver, Fan



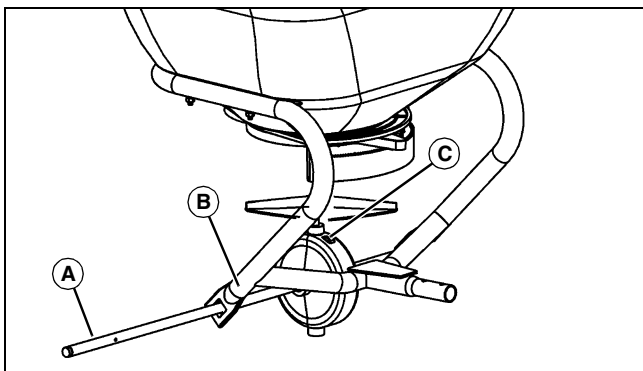
MX34597

2. Install lock clip (F) and fan driver (G), with small diameter lip of driver toward the bottom, as shown.

3. Slide fan (H) onto transmission assembly (I) shaft over top of fan driver. Move lock clip, fan driver, and fan downward so top of fan is approximately 12.7 cm (5 in.) (J) from top of transmission shaft.

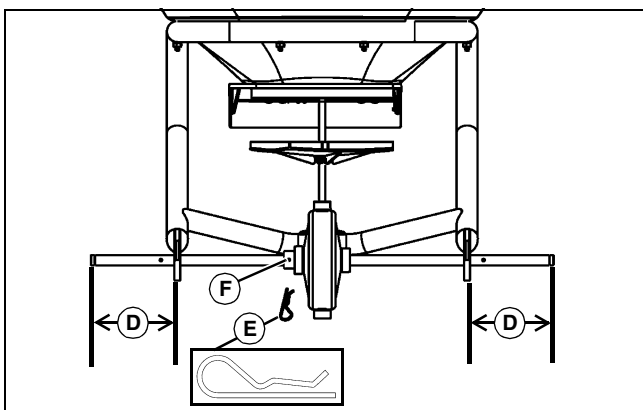
ASSEMBLY

Install Axle and Wheels



MX34598

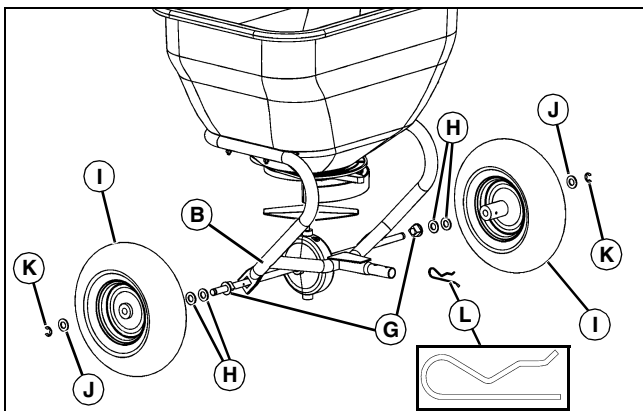
1. Install axle (A) through support frame assembly (B) with raised bump (C) on transmission toward front of spreader assembly, and offset hole in axle installed toward left side of spreader.



MX34599

Picture Note: View from rear of spreader.

2. Slide axle until lengths (D) are equal, and install spring locking pin (closed) (E) into left side hole (F).



MX34600

3. Install axle bearing (G) onto each side of axle so square end of bearing fits into square hole of support frame assembly (B).

NOTE: Add or delete washers (H) to reduce axle side to side movement.

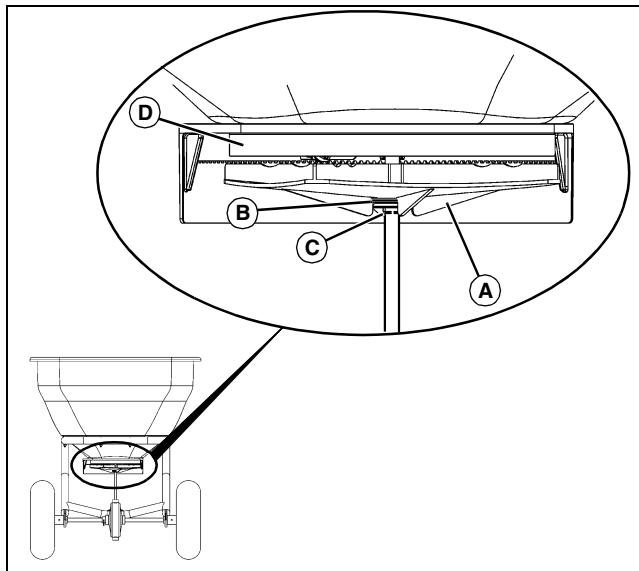
4. Install two 5/8 in. flat washers (H) onto each side of axle. Install wheel (I), 5/8 in. flat washer (J), and snap ring (K) onto end of axle.

IMPORTANT: Avoid damage! Use only one spring locking pin (open) to engage the wheels. The extra pin is included only when using the unit on ice for extra traction. Use of two pins on dry pavement may result in damage to the unit.

5. Install spring locking pin (open) (L) through inside hole in wheel rim and axle onto either side of axle.

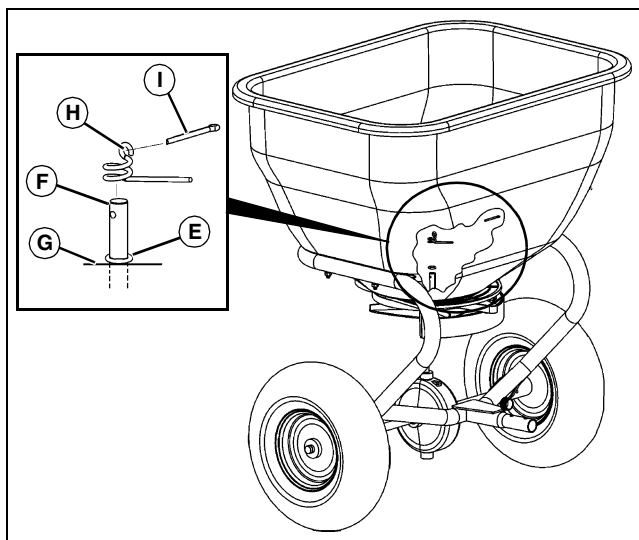
Install Agitator and Controls

NOTE: The four tabs on the fan should be compressed against the fan driver. If pressure is not applied, the fan connection will be loose resulting in poor performance.



MX34601

1. Adjust fan (A) upwards with fan driver (B) and lock clip (C) on shaft as close to bottom of hopper (D) without touching during operation. Make sure fan driver engages the four plastic tabs on the bottom of fan.

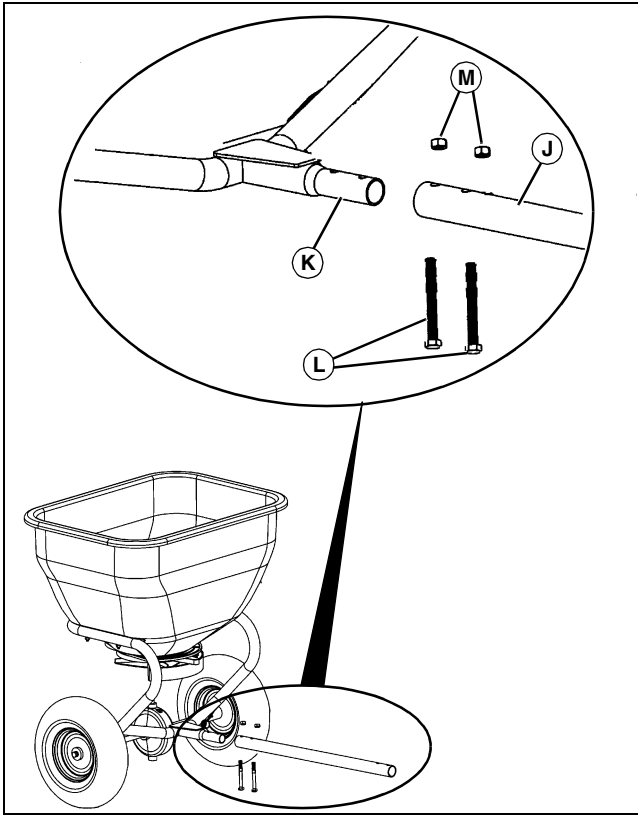


MX34602

2. Install 3/8 in. ID O-ring (E) on transmission shaft (F) until seated on bottom of hopper (G).

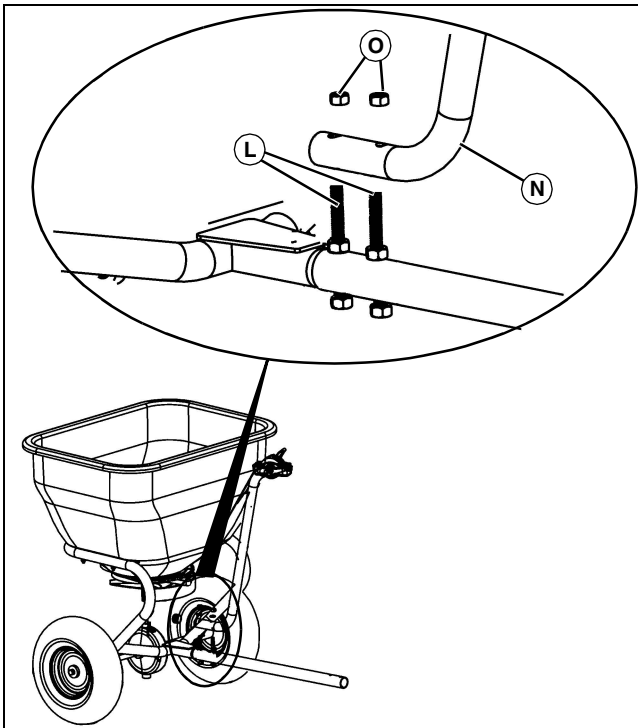
3. Install agitator (H), and secure with 1/8 x 1 in. cotter pin (I) through top loop in agitator and hole in transmission shaft, as shown.

INSTALLING



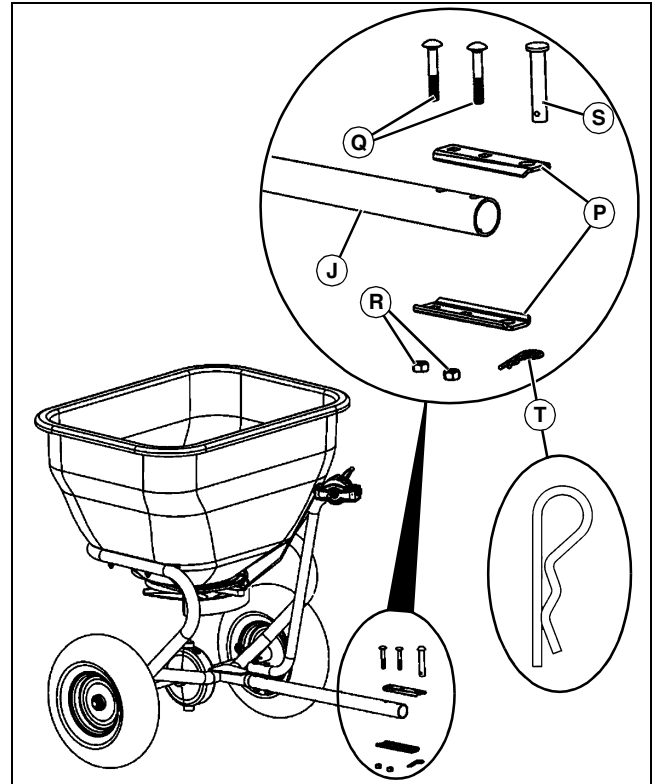
MX34603

4. Install tow tube (J) onto support frame (K) with two 5/16x3 in. hex bolts (L) and 5/16 in. hex nuts (M). Tighten hardware and torque bolts to 30 N•m (22 lb-ft), or one complete turn after finger tight.



MX34604

5. Install control support tube (N) onto hex bolts (L) tow tube with 5/16 in. locknuts (O). Tighten hardware.



MX34605

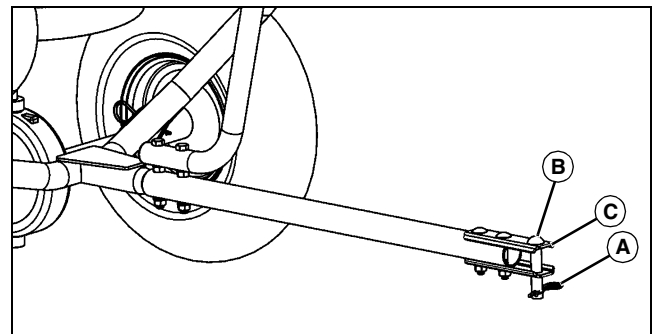
6. Install hitch clevis brackets (P) onto tow tube end (J) with two 5/16 x 2 in. carriage bolts (Q) and 5/16 in. locknuts (R), as shown. Tighten hardware.

7. Install 1/2 x 2-1/2 in. hitch pin (S) and 1/8 in. spring locking pin (small) (T) through end of clevis brackets, as shown.

Installing

Installing

1. Park machine safely. See "Parking Safely" in Safety section.



MX34595

2. Remove 1/8 in. spring locking pin (A) and 1/2 x 2-1/2 in. hitch pin (B) from hitch clevis (C) of spreader or other storage location.

3. Pull spreader forward and position hitch clevis to straddle machine rear hitch plate or drawbar (not shown). Align all hitch pin holes, then install hitch pin down through hitch clevis and machine hitch, securing with 1/8 in. spring locking pin (small).

REMOVING

Removing

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 feet away from under drawbar.

3. Remove 1/8 in. spring locking pin from hitch pin.
4. Hold spreader tow tube to remove pressure from hitch pin, then remove hitch pin 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.

Storing

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

1. Remove any loose material from 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.

OPERATING

Operating

Daily Operating Checklist

- Check for loose or missing hardware.
- Make sure all connections are tight.
- Make sure attachment responds properly to controls.
- Check for debris build-up that could obstruct proper motion of the spreader control components.

Operating the Spreader

The Fan speed and the spread width are controlled by the speed of the vehicle. The recommended operating speed is slightly faster than that of a brisk walk, 3 mph. 3 mph is equal to the vehicle traveling 40 ft in nine seconds.

The flow control assembly operates the flow control plate. The flow control assembly is marked 0 (closest) to 10 (fully open). The position selected determine the amount of material to be broadcast. The higher the number, the heavier the application of material.

Flow control setting for many of the common fertilizers, insecticides, and grass seeds are provided in the alphabetized table listing flow control settings. If the product is not listed in the flow control settings table, use the calibration guide to set the flow control.

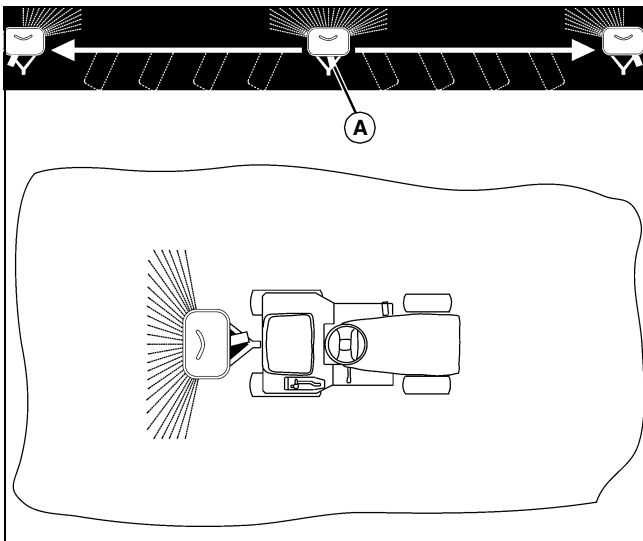
The agitator spring located inside the hopper provides consistent material flow of palletized materials and seed. It is not designed to break up lumps of material or seed. Break up any lumps as you fill the hopper.

After determining the correct setting number for your material, move flow control lock to that position. Move flow control handle to the lock position to open the flow control plate.

Directional Control Settings

Normal Operation (Uniform Spreading)

Fertilizers, insecticides, and grass seed each have different particle size and weight. This can be referred to as particle density. As the particles are impacted by the fan, the distribution can be centered or slightly off center depending on particle density and forward vehicle speed.

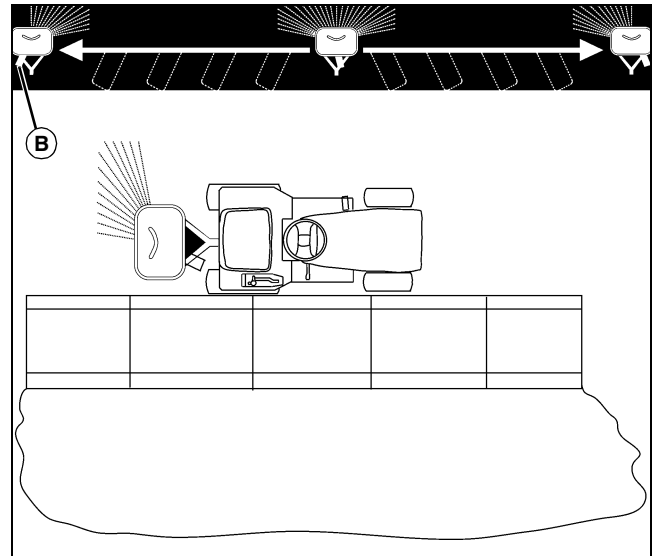


MX34606

Adjustment can be made by moving the direction control handle to the right or left. The directional decal located below the directional control plate handle will aid you in adjusting the spread pattern. For most applications the handle should be placed close to the center position (A)

described by the label above. If the material is coming out right or left during operation, adjustment of this lever should be made to center the material distribution pattern behind the vehicle. Your broadcast spreader has a patented feature to allow you to adjust for centering.

One Side Only Spreading



MX34607

The directional control handle can be used for adjusting the material spread pattern when spreading near sidewalks, planting beds, etc. With the handle adjusted to the left side (B), the directional control handle only operates with 90% shut-off of material to the right side of the vehicle as shown in the illustration above.

Operational Tips

- Always operate your spreader with the speed limit for which it was designed - 3 mph.
- When backing, carefully back straight to avoid jack knifing, which could result in damage to equipment.
- Only tow your spreader behind vehicles for which it was designed - riders, and lawn and garden tractors.
- Do not load the hopper with more than the maximum weight capacity of 79 kg (175 lb).
- When spreading ice melters, use two spring locking pins, one in each wheel hub, for better traction.
- When spreading seed, fertilizer, etc., insert only one spring locking pin in either the right or left wheel hub.
- Break up any lumps as you fill the hopper.
- Do not use on windy days, especially when spreading fine grass seed or herbicides.
- Optimum hitch height is 18 - 23 cm (7- 9 in.).

Service

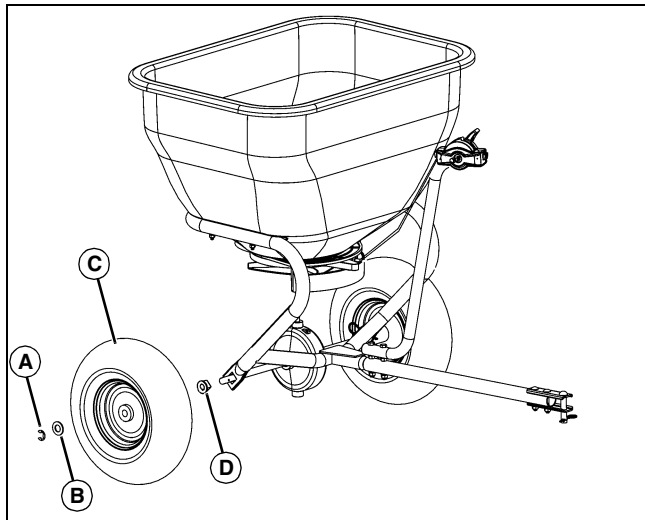
Maintenance Tips

- The key to years of trouble-free service is to keep your spreader clean and dry.
- Never allow material to remain in hopper for extended periods of time.
- Should rust develop, sand lightly and then paint area with enamel.

SERVICE

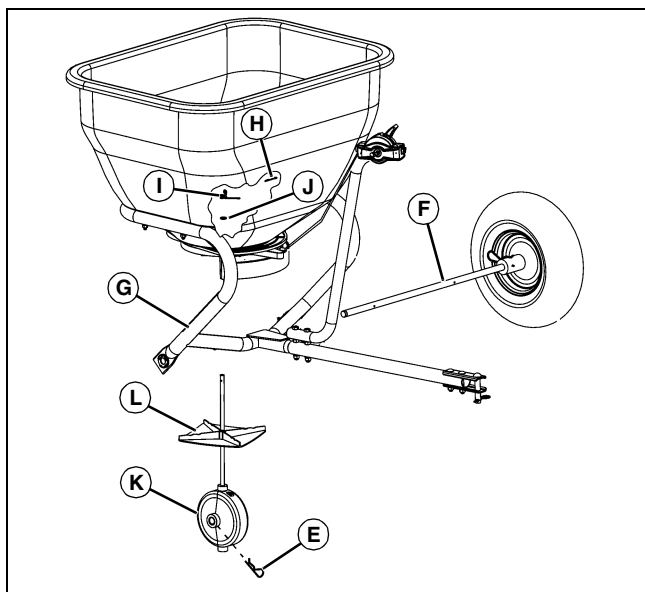
- Periodically check all fasteners for tightness.
- Rinse/dry inside and outside of spreader after each use. Move flow control as you rinse, to avoid build up of material.

Annual Maintenance



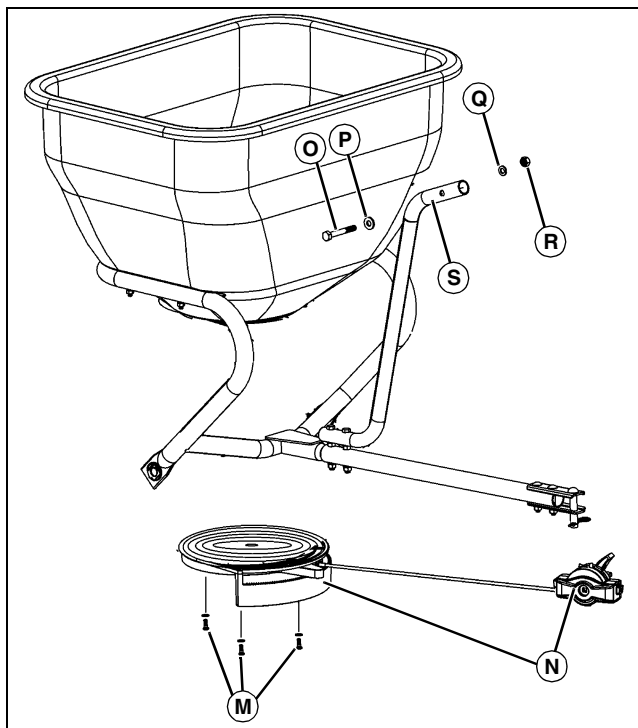
MX34608

1. Remove snap ring (A), 5/8 in. flat washer (B), wheels (C) and bearings (D).
2. Clean parts.
3. Lightly lubricate bearings.



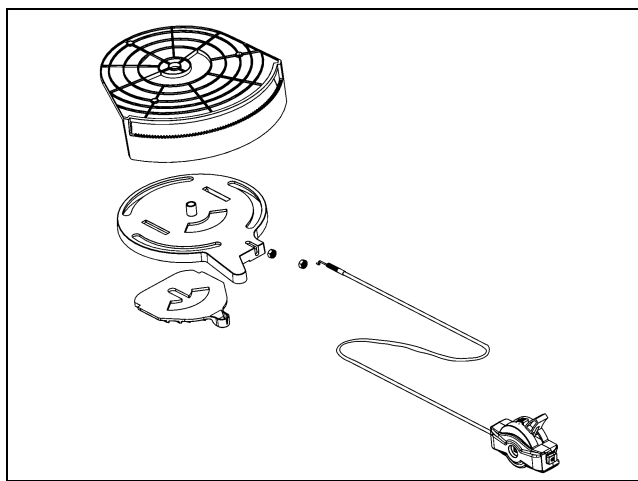
MX34609

4. Remove spring locking pin (E), and slide axle (F) out from support frame (G).
5. Remove 1/8 x 1 in. cotter pin (H), agitator (I), and 3/8 in. ID O-ring (J), and transmission (K).
6. Clean fan (L).



MX34610

7. Remove three screws (M) that secures control plate assembly (N).
8. Remove 1/4 x 2-1/2 in. bolt (O), 1/4 in. flat washer (P), 1/4 in. lock washer (Q), and 1/4 in. nut (R) and flow control assembly (N) from support tube (S).



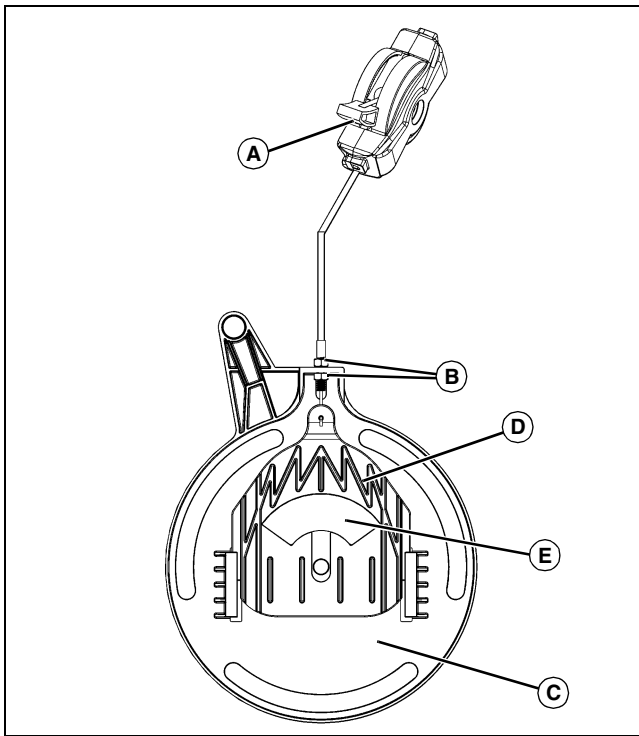
MX34611

9. Separate parts as shown.
10. Clean thoroughly using soap and water.
11. Assemble parts reverse order of removal.

Calibration

1. Move the flow control assembly lever to OFF setting.
2. If parts are disassembled, assemble all parts.

TROUBLESHOOTING



MX34612

Picture Note: View from top and rear of spreader.

3. Move the flow control assembly lever to "10" setting (A).
4. Adjust the two nuts (B) on directional control plate (C) in or out (together) so the flow control plate (D) is fully open (E). Tighten nuts together.
5. Move flow control assembly back and forth and to the OFF setting. Flow control plate will move freely and be in closed position.

Troubleshooting

Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your authorized dealer for service.

When you have checked all the possible causes listed and you are still experiencing the problem, see your authorized dealer.

Troubleshooting Chart

IF	CHECK
Flow control lever does not snap into flow control pointer.	Tighten 1/4 x 2-1/2 in. hex bolt on flow control lever assembly.
Not enough or too much fertilizer dispensed.	Calibrate the plates.
Flow control lever hard or will not operate.	Loosen 1/4 x 2-1/2 in. hex bolt on flow control lever assembly. Take control plates apart, and clean plates out with water.

IF	CHECK
Fan does not turn when pulling.	Find or replace missing spring locking pin in wheel or transmission.. Check position of fan, fan driver, and lock clip.

Specifications

LPBST-35JD Broadcast Spreader

Dimensions

Size (maximum weight) 79 kg (175 lb)

Capacity 0.10 cu m (3.5 cu ft)

Wheels and Tires 33.0 x 10.2 cm (13 x 5 in) Turf tread

Tire Inflation 138 kPa (20 PSI)

(Specifications and design subject to change without notice.)

Flow Control Settings for Specific Products

CAUTION: Avoid injury! Chemicals can be dangerous. Avoid injury to operator or bystanders:

- Read chemical container label for mixing and 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 spray chemicals.
- Wear a full covering of clothing, protective goggles and rubber gloves.
- Prohibit all smoking, drinking, and eating around chemicals.

The following is a list of flow control settings for specific products available for use with the spreader. Some products may not be available in all areas. Flow control settings are based on 3 mph forward speed.

lbs/1000 square feet	Flow Control Setting at 3 mph ^a	Materials ^b
10	6	All American All Purpose Fertilizer 10-10-10
3.8	5	Bayer Season Long Grub Control
2.9	4	Bayer Season Long Grub Control
3	3.5	Bayer Complete Insect Killer
2	3	Bayer Complete Insect Killer
3	2.5	Bayer Power Force Multi-Insect Killer
2	2	Bayer Power Force Multi-Insect Killer
3	3	Bayer Grub Control
2	2.5	Bayer Grub Control
3.2	3.5	Bayer Lawn Fertilizer Plus Weed Control II 30-3-4

SPECIFICATIONS

lbs/1000 square feet	Flow Control Setting at 3 mph ^a	Materials ^b
3.8	3.5	Bayer Season Long Grub Control
2.9	3	Bayer Season Long Grub Control
3.6	3.5	Bayer Lawn Starter Fertilizer 20-27-5
3.2	3.5	Bayer Lawn Fertilizer Plus Crabgrass Preventer 30-3-4
3	3.5	Eliminator Ant, Flea, and Tick Killer Granules
2.5	3	Eliminator Ant, Flea, and Tick Killer Granules
2	3	Eliminator Ant, Flea, and Tick Killer Granules
2	3.5	Eliminator 5% Diazinon Killer Granules
7	5	Howard Johnsons All-Purpose Fertilizer 8-8-8
7	5	Howard Johnsons All-Purpose Fertilizer 10-10-10
7	5	Howard Johnsons All-Purpose Fertilizer 12-12-12
5	4.5	Ironite 1-0-0
4	3.5	Klay Soft Pelletized Gypsum Soil Conditioner
3	3	Klay Soft Pelletized Gypsum Soil Conditioner
2	2.5	Klay Soft Pelletized Gypsum Soil Conditioner
4	4.5	Lesco Pre-M 0.86% Plus Fertilizer 25-0-7
4.2	4	Lesco Starter Fertilizer 18-24-12
4.2	3.5	Lesco Turf Fertilizer 24-2-11
4	3.5	Lesco Weed and Feed
8	6.5	Master Turf Ultimate Tall Fescue Blend
4	5	Master Turf Ultimate Tall Fescue Blend
8	6.5	Milorganite 6-2-0
16	8	Milorganite 6-2-0
3.2	3.5	Miracle-Gro Lawn Fertilizer Plus Weed Control 28-3-3
3.6	3.5	Miracle-Gro S Starter Lawn Fertilizer 20-27-5
3.1	3	Miracle-Gro S Starter Lawn Fertilizer 29-3-4
9.6	5.5	Ortho Lawn Insect Killer Granules
4.8	3.5	Ortho Lawn Insect Killer Granules
2.4	2	Ortho Lawn Insect Killer Granules
1.2	1.5	Ortho Lawn Insect Killer Granules
4	4	Ortho Max Insect Killer for Lawns
2	3	Ortho Max Insect Killer for Lawns
1	2	Ortho Max Insect Killer for Lawns

lbs/1000 square feet	Flow Control Setting at 3 mph ^a	Materials ^b
10	6	Parkers Super Soilife Lawn and Garden Fertilizer 10-10-10
6.5	4.5	Parkers Super Soilife Lawn and Garden Fertilizer 16-4-8
3.6	3.5	Pennington Lawn Starter Fertilizer 18-24-6
10	7	Pennington Master Turf High Traffic Lawn Seed Mixture
5	5.5	Pennington Master Turf High Traffic Lawn Seed Mixture
8	7	Pennington Master Turf Shady Lawn Seed Mixture
4	5.5	Pennington Master Turf Shady Lawn Seed Mixture
10	7	Pennington Master Turf Sun and Shade Lawn Seed Mixture
5	5.5	Pennington Master Turf Sun and Shade Lawn Seed Mixture
2	2.5	Real-Kill Multi-Purpose Lawn and Garden Insect Killer
2.5	3	Real-Kill Multi-Purpose Lawn and Garden Insect Killer
10	7	Rebels Supreme Blend Grass Seed for Sun and Shade
5	5.5	Rebels Supreme Blend Grass Seed for Sun and Shade
10	7	Ringer Lawn Restore 10-2-6
12.3	7.5	Sam's Choice Crabgrass Preventer 30-3-4
8.1	6	Sam's Choice Crabgrass Preventer 30-3-4
6	5.5	Sam's Choice Crabgrass Preventer 30-3-4
5.4	5	Sam's Choice Crabgrass Preventer 30-3-4
3	3	Sam's Choice Insect Control Plus Fertilizer 28-4-6
3.2	3.5	Sam's Choice Lawn Food 29-3-4
6	5.5	Sam's Choice Starter Fertilizer 20-27-5
3.6	4	Sam's Choice Starter Fertilizer 20-27-5
4	5.5	Scotts Classic Grass Seed Fall Grass Seed Mix
2	3.5	Scotts Classic Grass Seed Fall Grass Seed Mix
2.3	2.5	Scotts Grubex
3.1	4	Scotts Grubex Season Long Grub Control
2.3	3.5	Scotts Grubex Season Long Grub Control
1.4	2.5	Scotts Lawn Fungus Control

SPECIFICATIONS

lbs/1000 square feet	Flow Control Setting at 3 mph ^a	Materials ^b
2.7	4	Scotts Lawn Fungus Control
2.2	3.5	Scotts Pure Premium Kentucky Bluegrass Mix
1.1	3	Scotts Pure Premium Kentucky Bluegrass Mix
2.5	4	Scotts Pure Premium Sun and Shade Grass Seed Mixture
1.25	3	Scotts Pure Premium Sun and Shade Grass Seed Mixture
3.6	3.5	Scotts Starter Fertilizer 20-27-5
5.9	4.5	Scotts Starter Fertilizer 20-27-5
2.7	3.5	Scotts Turf Builder 28-3-8
3.1	3	Scotts Turf Builder Lawn Fertilizer 29-3-4
2.7	3.5	Scotts Turf Builder with Summer Guard
2.9	3.5	Scotts Turf Builder Plus Weed Control
3.3	3	Scotts Winterizer 22-4-1
4.6	4.5	Sevin Lawn Insect Granules
2.33	3.5	Sevin Lawn Insect Granules
2.25	3.5	Sevin Lawn Insect Granules
3	4	Spectracide Grub Stop
3	2	Spectracide Traizicide Insect Killer Granules
3.6	3.5	Sta-Green Lawn Fertilizer 29-2-5
2	3	Sta-Green Lawn Weed Control
3.2	3.5	Sta-Green 200 Plus Weed and Feed 28-3-3
3.6	3.5	Sta-Green Starter Fertilizer 18-24-10
3.2	3.5	Sta-Green Weed and Feed 28-2-4
10	7	Sun and Shade Grass Seed Mixture
5	5.5	Sun and Shade Grass Seed Mixture
3	2	Vigoro Insect Control Plus Fertilizer
3.6	4.5	Vigoro Starter Fertilizer
3.5	3.5	Vigoro Turf Fertilizer 29-3-4
3	3	Vigoro Ultra Turf Winterizer 22-3-14
3.2	4.5	Vigoro Weed and Feed
4	5.5	Wal Mart Gardens Kentucky Bluegrass Grass Seed
2	3.5	Wal Mart Gardens Kentucky Bluegrass Grass Seed
8	7	Wal Mart Gardens Kentucky 31 Tall Fescue

lbs/1000 square feet	Flow Control Setting at 3 mph ^a	Materials ^b
4	5.5	Wal Mart Gardens Kentucky 31 Tall Fescue
3.2	3.5	Wal Mart Weed and Feed 28-3-3

a. Flow Control Settings are based on 3 mph forward speed.

b. The products listed are the property of their respective owners, and are not the property of, nor recommended by, Deere and Company.

Calibration Settings

If the product you are using is not listed in the flow control setting table, use the this calibration guide to set the flow control. Calibration guide information is also provided on the hopper decal of the spreader.

Using application information on product package, find the calibration setting in the following guide and set calibration control lever.

Adjust spread pattern.

Calibration settings have been determined using a 3 MPH pace or 40 ft. of travel in 9 seconds.

Calibration Guide for Flow Control Settings

lbs/1000 square feet	Flow Control Setting
0.5 - 0.9	1
1.0 - 1.4	2
1.5 - 2.4	2.5
2.5 - 3.4	3
3.5 - 3.9	3.5
4.0 - 4.4	4
4.5 - 4.9	4.5
5.0 - 5.9	5
6.0 - 7.4	5.5
7.5 - 8.9	6
9.0 - 10.9	6.5
11.0 - 12.9	7
13.0 - 14.9	7.5
15.0 - 17.9	8
18.0 - 20.9	9
21.0 - 24.5	10

Getting Quality Service

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

GETTING QUALITY SERVICE

about your product.

1. Refer to your attachment and machine operator manuals.
2. In North America or Canada, call John Deere Special Services at 1-866-218-8622 and provide product serial number (if available) and model number.

GETTING QUALITY SERVICE

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