JOHN DEERE

OPERATOR'S MANUAL

130 LB. Tow Spreader

LP39087
45384
10/21/19
(English)

North American Edition
Printed in USA

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 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.

Table of Contents

Product Compatibility

This broadcast spreader is designed for use with lawn and garden tractors only.

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.

Safety

Read Safety in Machine Operator's Manual

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

Operating Safely

• Read the machine and attachment operator's manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the machine and disengage the controls quickly.

• This attachment is intended for use in lawn care and home applications. Do not use for use other than intended by the manufacturer.

• Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.

• Do not let children or an untrained person operate machine.

• Make any necessary adjustments before you operate. Never attempt to make any adjustments while the engine is running, unless if recommended in adjustment procedure.

• Look behind machine before you back up. Back up carefully.

• 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.

• Disengage any power to the attachment when the machine is transported or not in use.

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.

Protect Bystanders

• Keep bystanders away when you operate a towed attachment.

• Before you back machine and attachment, look carefully behind attachment for bystanders.

Practice Safe Maintenance

• Only qualified, trained adults should service this machine.

• Understand service procedure before doing work. Keep area clean and dry.

• Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.

• Never lubricate, service or adjust the machine or attachment 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.

• Disconnect battery or remove spark plug wire (for gasoline engines) before making any repairs.

• 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.

• Check all hardware at frequent intervals to be sure the equipment is in safe working condition.

• Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.

Wear Appropriate Clothing

• Always wear eye protection when operating the machine.

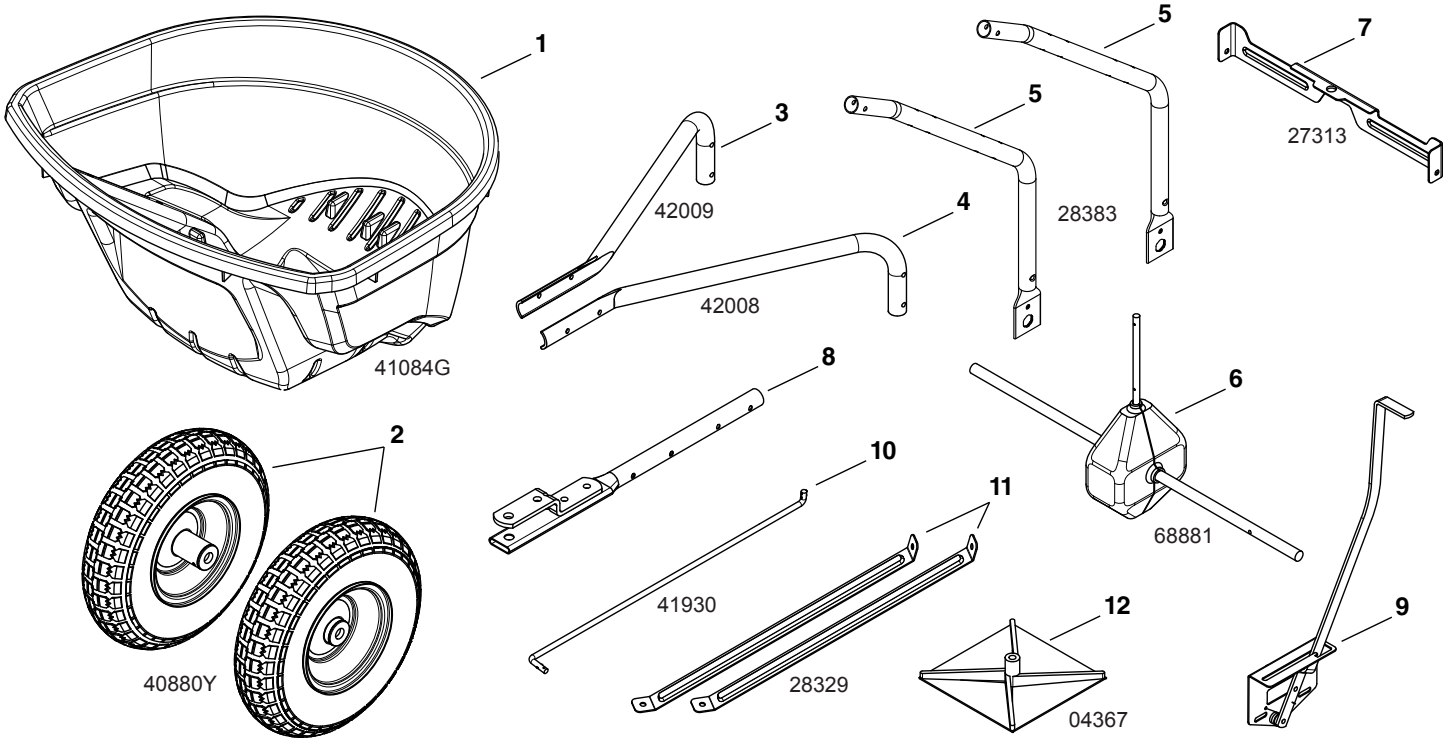
• Wear close fitting clothing and safety equipment appropriate for the job.

• 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.

Assembly

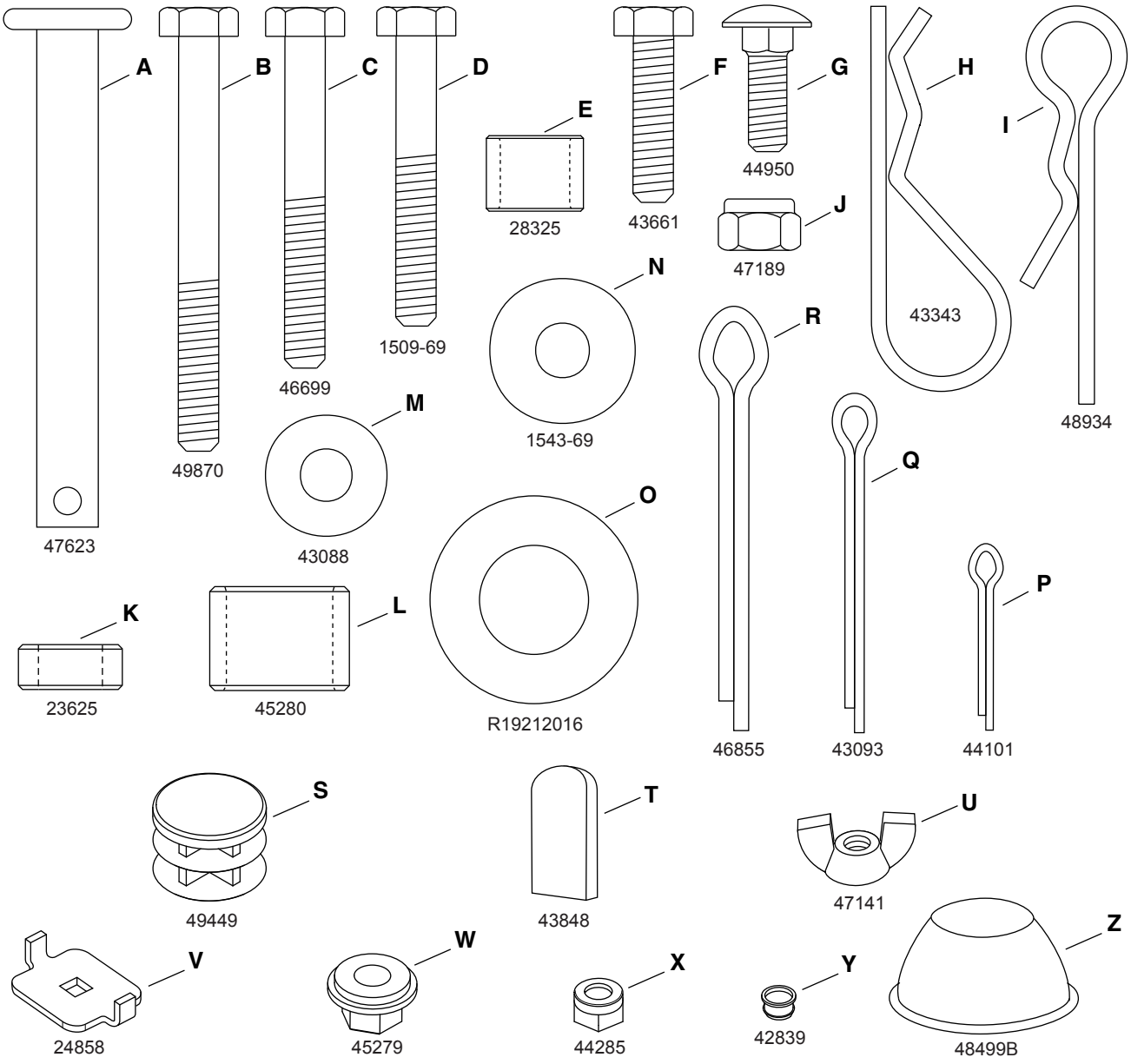
Parts in Carton



Description	Qty	Description	Qty
Hopper (1)	1	Cross Brace (7)	1
Wheels (2)	2	Hitch Assembly (8)	1
Hitch Support Tube (RH) (3)	1	Flow Control Assembly (9)	1
Hitch Support Tube (LH) (4)	1	Flow Control Rod (10)	1
Hopper Support Tube (5)	2	Hopper Brace (11)	2
Axle/Gearbox Assembly (6)	1	Spreader Impeller (12)	1

Assembly

Parts Bag Contents



Description	Qty	Description	Qty
Hitch Pin (A)	1	Washer, Nylon (N)	5
Hex Bolt, 1/4" x 2-1/2" (B)	2	Washer, 5/8" (O)	4
Hex Bolt, 1/4" x 2" (C)	4	Cotter Pin, 3/32" x 3/4" (P)	1
Hex Bolt, 1/4" x 1-3/4" (D)	6	Cotter Pin, 1/8" x 1-1/2" (Q)	1
Spacer (E)	2	Cotter Pin, 3/16" x 2" (R)	1
Hex Bolt, 1/4" x 1" (F)	1	Plug (S)	3
Carriage Bolt, 1/4" x 3/4" (G)	1	Grip (T)	1
Hairpin Cotter (H)	1	Wing Nut (U)	1
Hairpin, Agitator (I)	1	Adjustable Stop (V)	1
Hex Nut, 1/4" Nylock (J)	13	Hex Bushing (W)	2
Spacer (K)	1	Hopper Bushing (X)	1
Spacer (L)	2	Bushing, 3/8" Plastic (Y)	1
Washer, 1/4" (M)	9	Hub Cap (Z)	2

Assembly

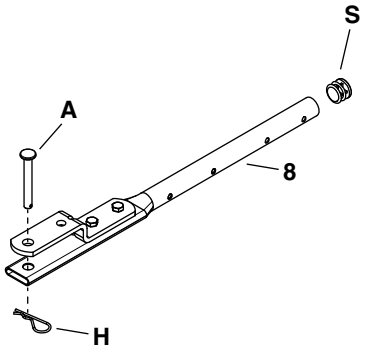
TOOLS REQUIRED FOR ASSEMBLY

(1) Hammer
(1) Pliers
(2) 7/16" Wrenches
(2) 1/2" Wrenches

Assembly Step 1

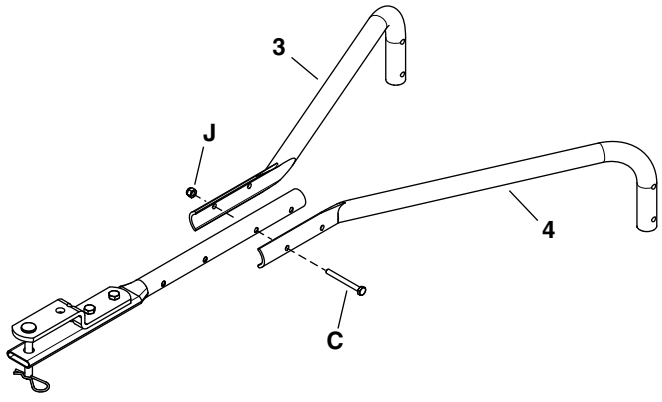
Insert a plug (S) in to the end of the hitch tube (9).

Install the hitch pin (A) in the hitch bracket and hitch tube and secure it with the hairpin cotter (H).



Assembly Step 2

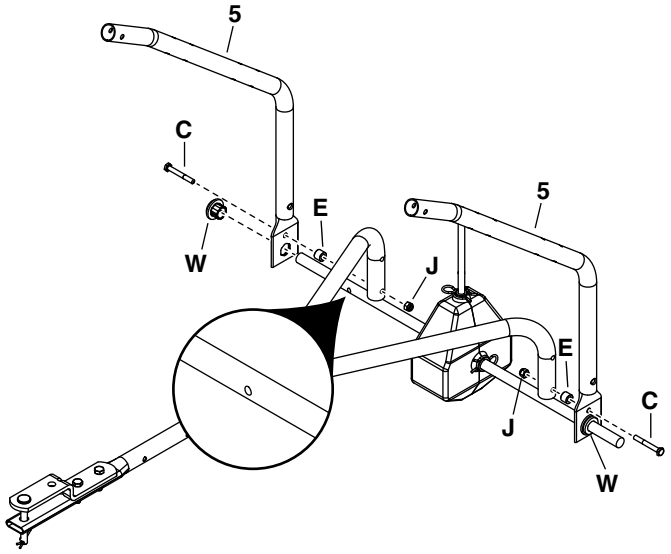
Attach the hitch support tubes (3), and (4) to the hitch tube using one 1/4” x 2” hex bolt (C) and 1/4” nylock nut (J). **Do not tighten completely**.



Assembly Step 3

Insert the hex bushings (W) into the ends of the hopper support tubes (5).

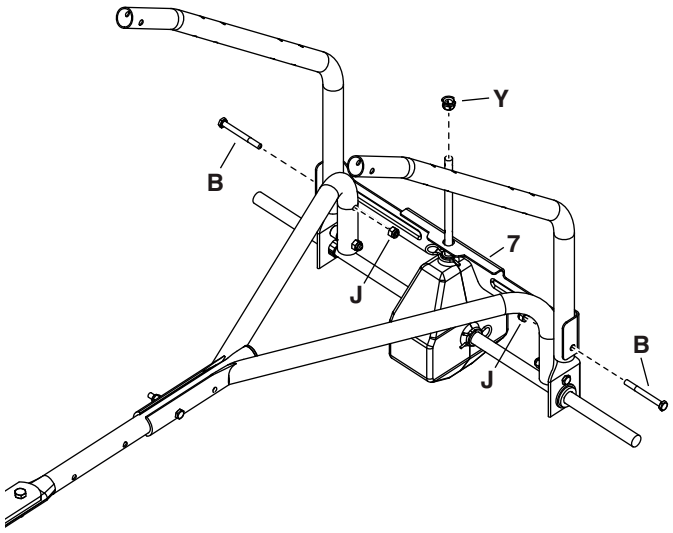
Assemble the axle/gearbox assembly and hopper support tubes (5) to the hitch support tubes as shown using two 1/4” x 2” hex bolts (C), spacers (E), and 1/4” nylock nuts (J). **Do not tighten completely.**



Assembly Step 4

Insert the bushing (Y) into the cross brace (7).

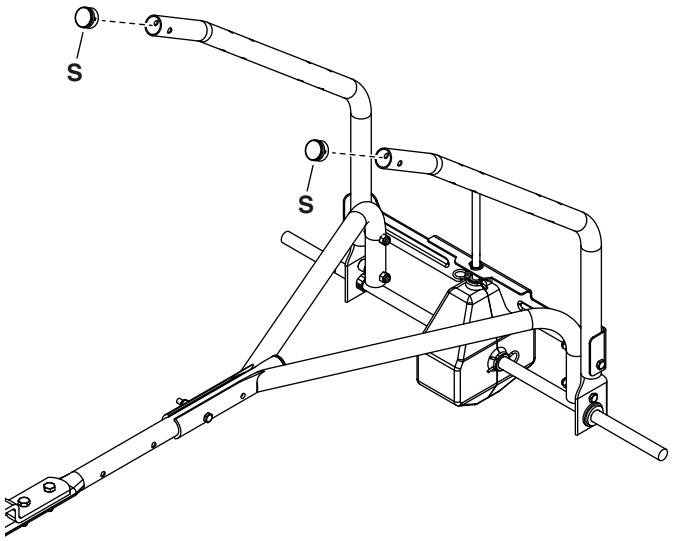
Attach the cross brace to the hopper support tubes using two 1/4” x 2-1/2” hex bolts (B) and 1/4” nylock nuts (J). **Do not tighten completely.**



Assembly

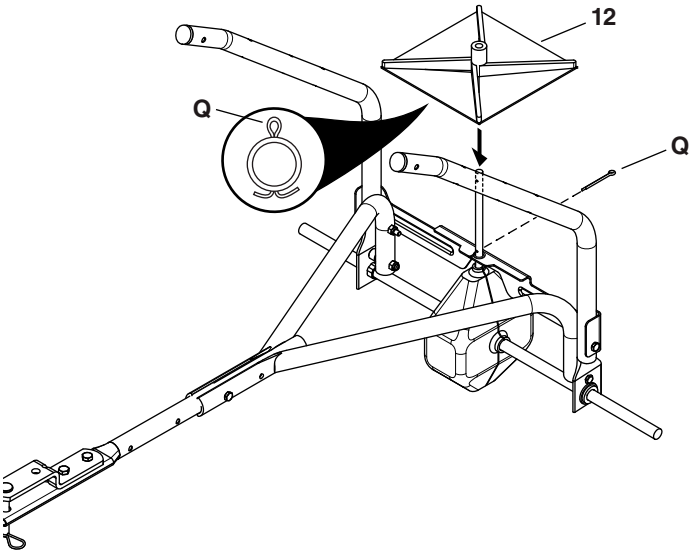
Assembly Step 5

Insert plugs (S) into the ends of the hopper support tubes (5) and (6).



Assembly Step 6

Slide the spreader impeller (12) onto the spreader shaft and secure it with a 1/8” x 1-1/2” cotter pin (Q).



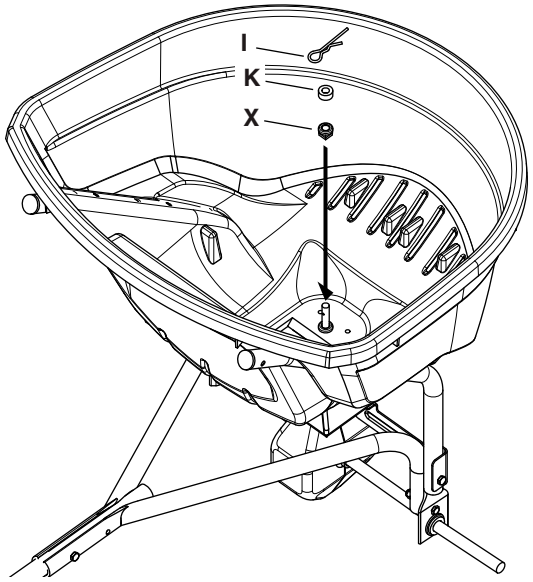
Assembly Step 7

Place the hopper on the hopper support tubes, inserting the spreader shaft up through the square hole in the bottom of the hopper.

Slide the hopper bushing (X) onto the spreader shaft and insert it into the bottom of the hopper.

Slide the spacer (K) onto the spreader shaft.

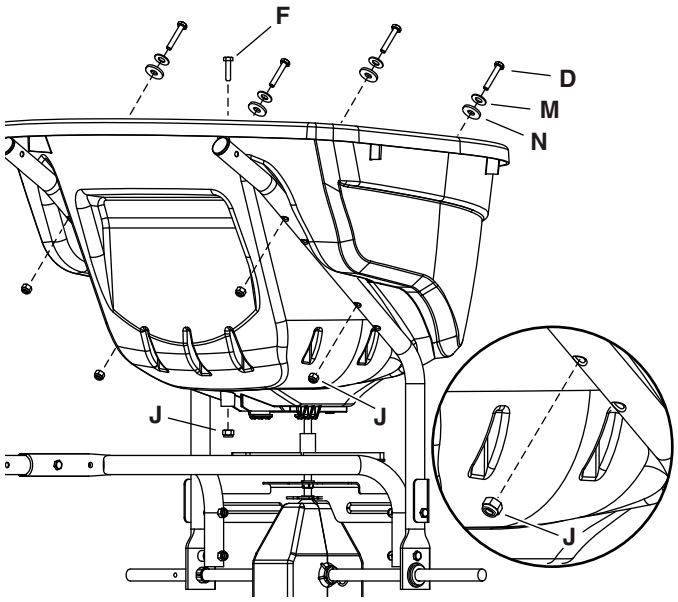
Install the agitator hairpin (I) in the spreader shaft.



Assembly Step 8

Attach the hopper to the upper set of holes in the hopper support tubes using four 1/4” x 1-3/4” hex bolts (D), 1/4” washers (M), nylon washers (N) and 1/4” nylock nuts (J). **Make only finger tight.**

Insert the 1/4” x 1” hex bolt (F) into the hole in the bottom of the hopper, pressing the head of the bolt into the hex shaped recess of the hole. Install a 1/4” nylock nut (J) onto the bolt and **tighten**.

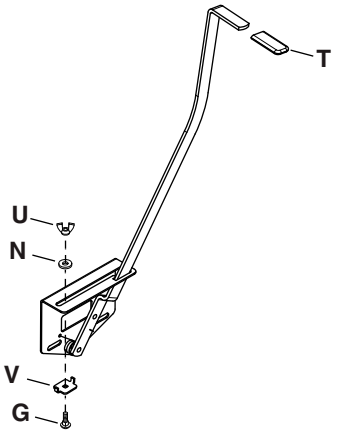


Assembly

Assembly Step 9

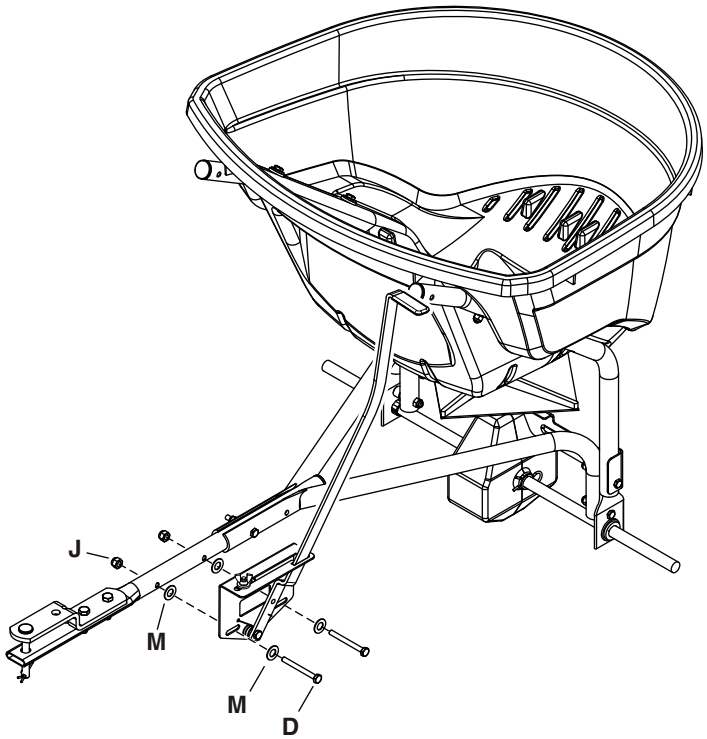
Install the grip (T) onto the flow control arm.

Assemble the adjustable stop (V) to the flow control bracket using the 1/4” x 3/4” carriage bolt (G), nylon washer (N) and wing nut (U).



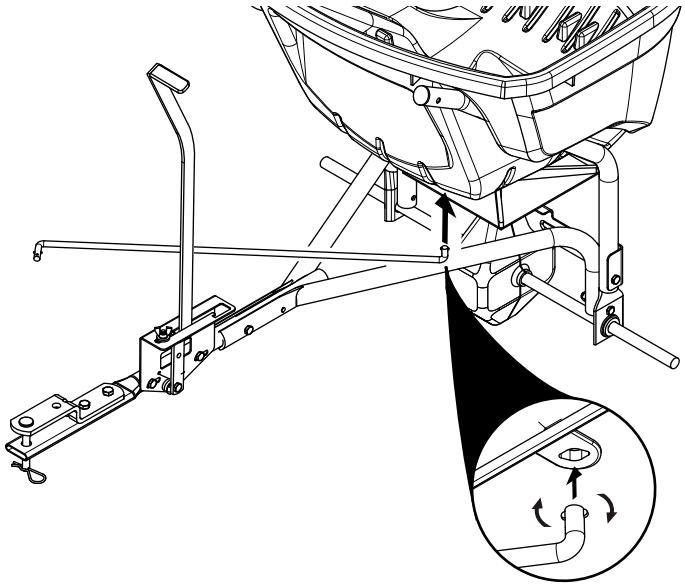
Assembly Step 10

Attach the flow control bracket to the hitch tube using two 1/4” x 1-3/4” hex bolts (D), four 1/4” washers (M) and two 1/4” nylock nuts (J). **Do not tighten completely.**



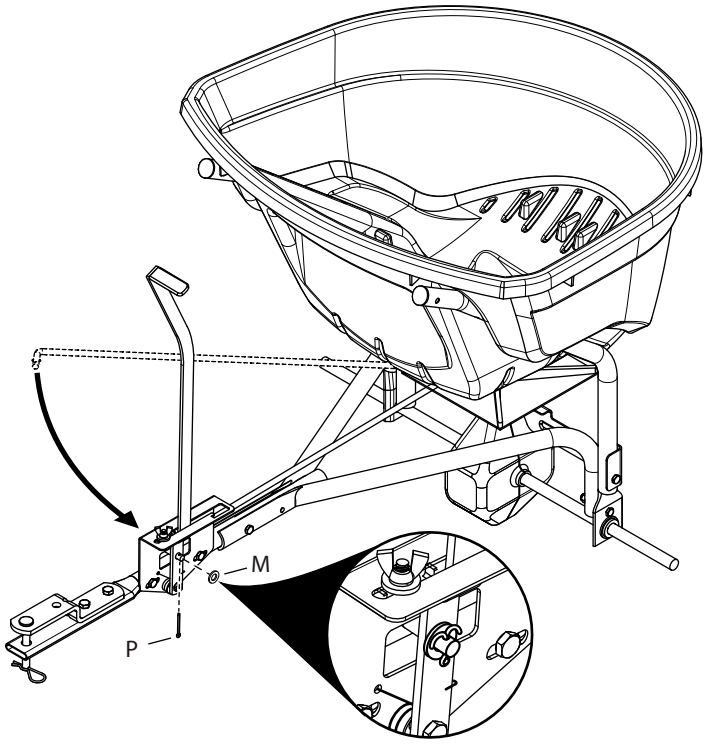
Assembly Step 11

Install the end of the flow control rod (10) with no hole into the elongated hole in the flow plate on the bottom of the hopper. Lock the rod in the flow plate by rotating the rod.



Assembly Step 12

Swing the flow control rod around and insert the end of the rod into the flow control arm. Secure it with a 1/4” washer (M) and a 3/32” x 3/4” cotter pin (P).

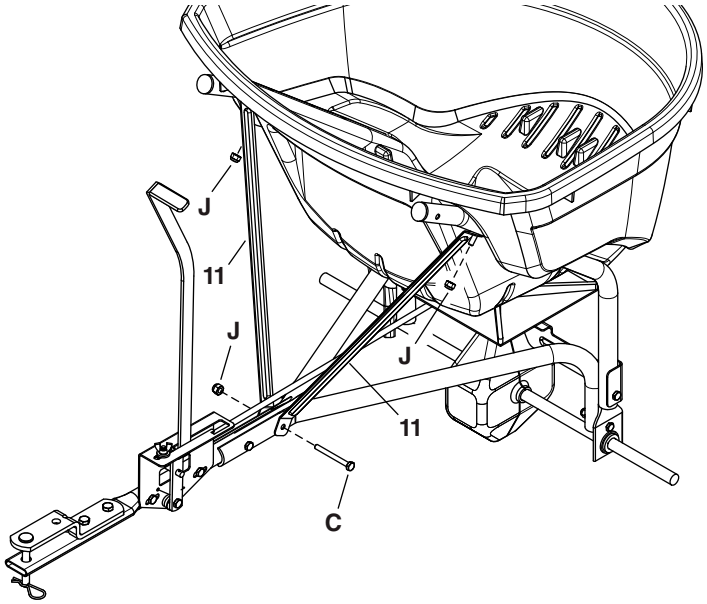


Assembly

Assembly Step 13

Fasten the hopper braces (11) to the hopper support tubes using the nylock nuts (J) that were assembled earlier. **Do not tighten completely.**

Fasten the loose ends of the hopper braces to the hitch tube using a 1/4” x 2” hex bolt (C) and a 1/4” nylock nut (J). **Do not tighten completely.**

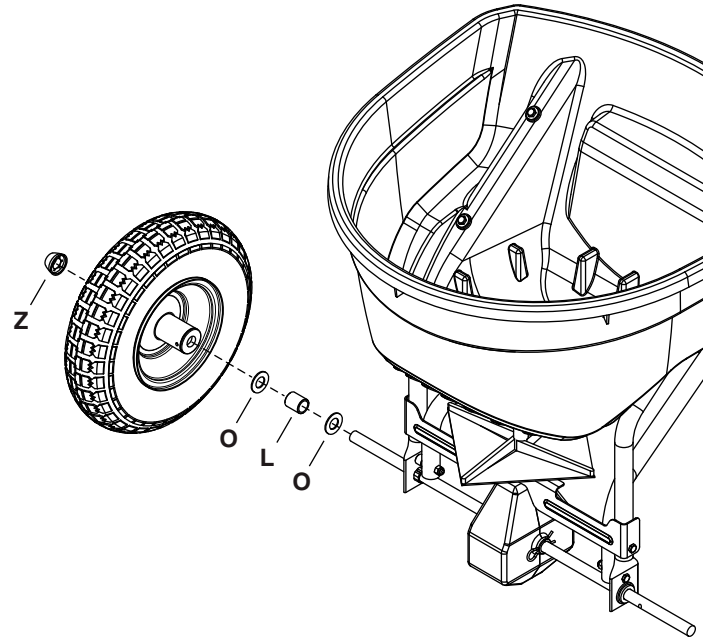


Assembly Step 14

Tighten all bolts and nuts **except** for those shown in step 10 that fasten the control bracket to the hitch tube.

Slide a 5/8” washer (O), a spacer (L), a 5/8” washer (O) and a wheel onto the end of the axle with no hole.

Carefully hammer a hub cap (Z) onto the axle.

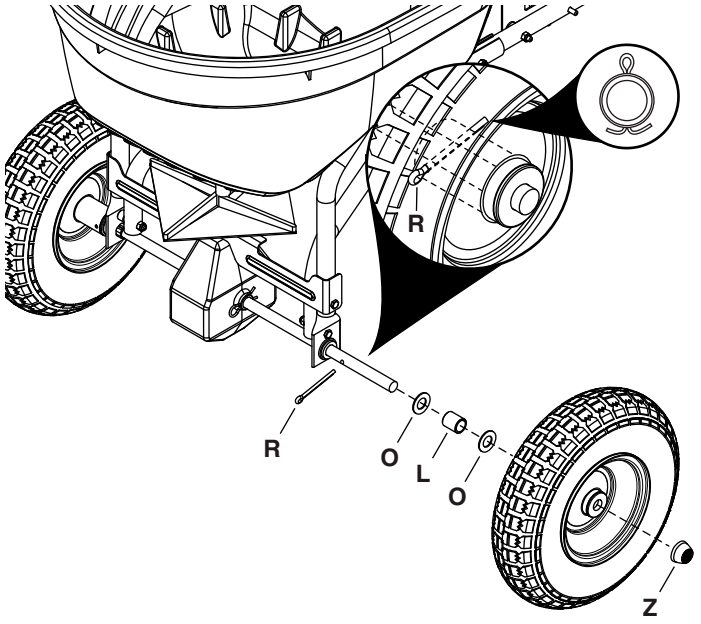


Assembly Step 15

Slide a 5/8” washer (O), a spacer (L), a 5/8” washer (O) and a wheel onto the end of the axle with a hole.

Secure the wheel to the axle with a 3/16” x 2” cotter pin (R), spreading both ends of the cotter pin.

Carefully hammer a hub cap (Z) onto the axle.



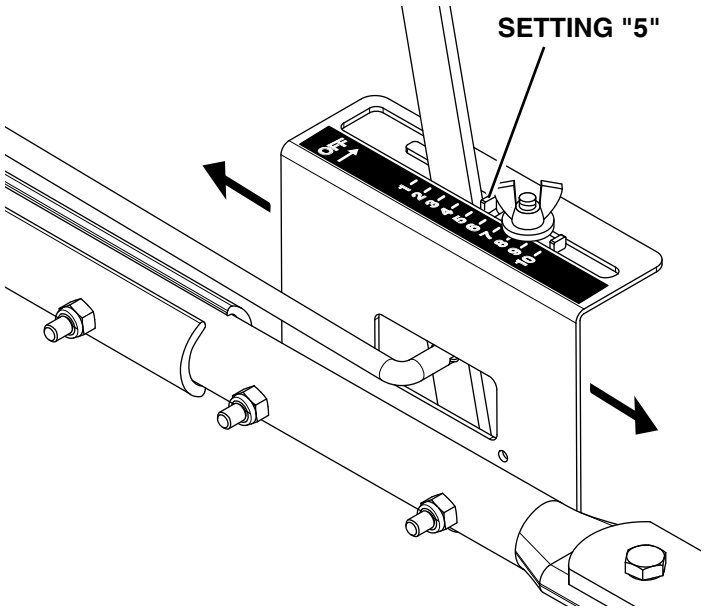
Assembly Step 16

Set the adjustable stop at “5” and move the control hande back against it.

Slide the control bracket along the hitch tube until the flow plate in the bottom of the hopper is open half way.

Tighten the bolts and nuts fastening the control bracket. **Do not deform** the control bracket.

Make sure the flow plate will open and close all the way. Readjust if necessary.



Operation

Setting The Flow Control
(Refer to Step 16 on Page 9.)

Loosen the wing nut, set the adjustable stop to the desired flow rate setting and retighten the wing nut. The higher the setting number, the wider the opening in the bottom of the hopper.

Refer to the application chart on this page and to the instructions on the fertilizer bag to select the proper flow rate setting.

Pull the flow control arm against the adjustable stop for the on position. Push the flow control arm toward the hopper and then over into the locking notch for the off position.

Operation Step 1

IMPORTANT: Do not exceed 6 mph. Speeds above 6 mph may cause excessive wear of the spreader gears.

We do not recommend the use of any powdered lawn chemicals, due to difficulty in obtaining a satisfactory or consistent broadcast pattern.

Determine approximate square footage of area to be covered and estimate amount of material required.

Make sure the flow plate is closed.

Fill the hopper, breaking up any lumpy fertilizer.

Refer to the instructions on the fertilizer bag and to the application chart on this page to set the adjustable stop to the proper flow rate setting. The application chart is calculated for light to heavy application at a vehicle speed of 3 mph, or 100 ft. in 23 seconds. A variation in speed will require an adjustment of the flow rate to maintain the same coverage. The broadcast width may increase as speed increases. Do not exceed 6 mph.

Always start the tractor in motion before opening the flow plate.

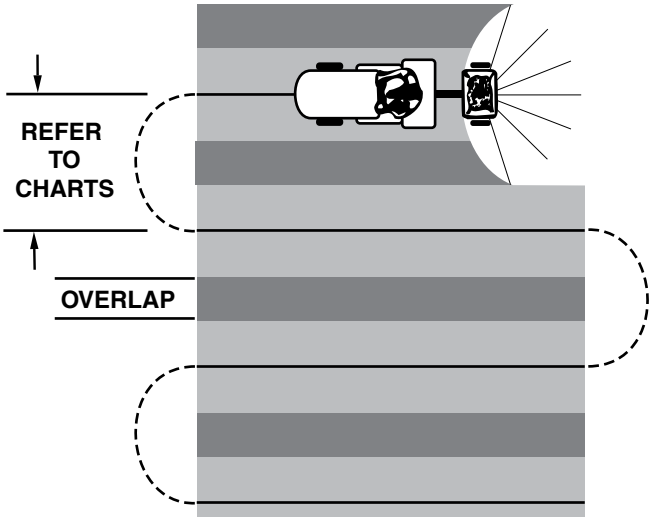
Always close the flow plate before turning or stopping the tractor.

If fertilizer is accidentally deposited too heavily in a small area, soak the area thoroughly with a garden hose or sprinkler to prevent burning of the lawn.

To insure uniform coverage, make each pass so that the broadcast pattern slightly overlaps the pattern from the previous pass as shown in the figure on this page. The approximate broadcast widths for different materials are shown in the application chart on this page.

When broadcasting weed control fertilizers, make sure the broadcast pattern does not hit evergreen trees, flowers or shrubs.

Heavy moisture conditions may require use of a vinyl hopper cover to keep contents dry. The cover acts as a wind and moisture shield, but should not be used as a rain cover. The #41316 cover can be ordered as an option. See pages 12 and 13.



Operation Step 2

IMPORTANT: Application rates shown in the chart 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.

APPLICATION CHART

MATERIAL TYPE	FLOW SETTING	SPREAD WIDTH
FERTILIZER		
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'
ICE MELTER	6 - 8	10' - 12'

Service and Troubleshooting

General Maintenance

Check For Loose Fasteners

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

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

Check Tire Inflation

Check if tires are adequately inflated before each use. Do not inflate tires beyond maximum recommended pressure on tire.

CAUTION: DO NOT inflate tires beyond the maximum recommended pressure printed on side of tire.

Storage

Rinse inside of hopper and exterior of spreader and allow to dry before storing.

Store in a clean, dry area.

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 Agri-Fab, Inc. Customer Service at 1-800-448-9282 and provide product serial number (if available) and model number.

Service And Adjustments

If the axle and gear assembly is disassembled, mark down the positions of the parts as they are removed. The drive wheel and large gear positions, in relation to the small gear, determine which direction the impeller will spin. Be sure to reassemble them in their original positions. (Refer to parts exploded view on page 12). Make sure the washers (item 32 on page 12 and 13) are in place when assembling the axle components. Add grease to gears.

Cleaning

Rinse inside of hopper and exterior of spreader and allow to dry before storing.

Lubricate

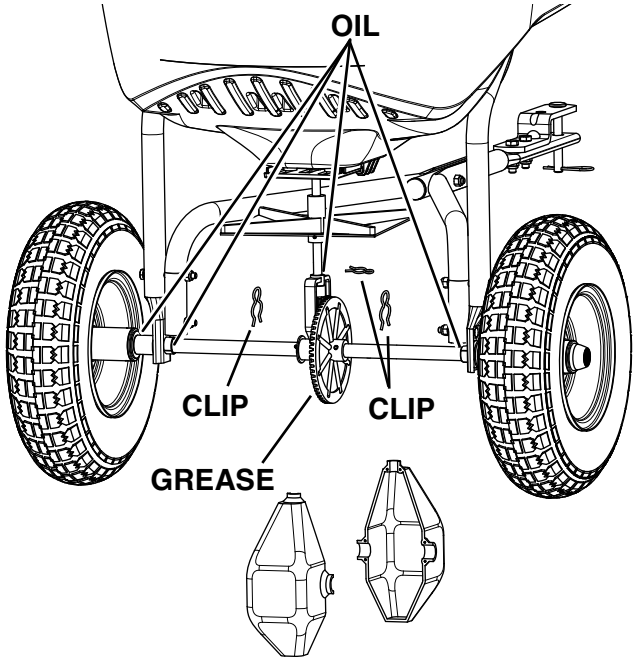
Remove the three clips from the gear box and separate the gearbox housings.

Lightly apply automotive grease as needed to the gears.

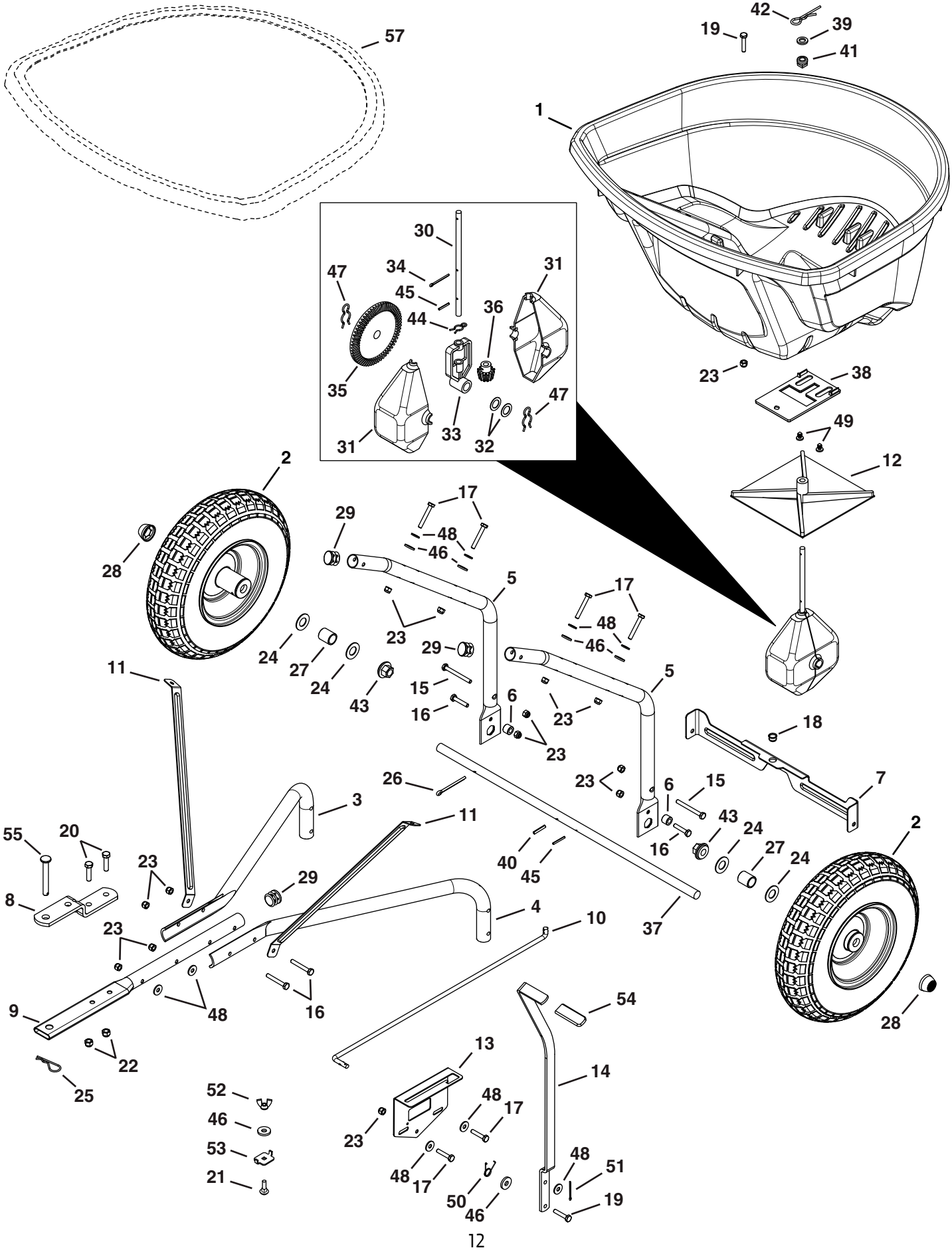
Lightly oil the top of the gear box and the vertical spreader shaft.

Re-assemble the gearbox housings and secure them with the clips.

Oil the (idler) wheel and the axle bushings at least once a year or more often as needed.



Repair Parts



Repair Parts

		PART NO	DESCRIPTION			PART NO	DESCRIPTION
1	1	41084G	Hopper	31	2	47212	Housing, Large Gear
2	2	40880Y	Wheel	32	2	44125	Washer, .625 x 1.0 x .03
3	1	42009	Tube, Hitch Support	33	1	47204	Yoke, Large
4	1	42008	Tube, Hitch Support	34	1	43093	Cotter Pin, 1/8 x 1-1/2
5	2	28383	Tube, Hopper Support	35	1	47209	Gear, Large (Cast)
6	2	28325	Spacer, .31 ID x .56 OD x .438	36	1	47205	Gear, Small (Cast)
7	1	27313	Cross Brace	37	1	26710	Axle
8	1	23687	Bracket, Hitch	38	1	45344	Plate, Flow
9	1	41937	Tube, Hitch	39	1	23625	Spacer
10	1	41930	Rod, Flow Control	40	1	43659	Pin, Spring, 3/16 x 1
11	2	28329	Brace, Hopper	41	1	44285	Bushing, Hopper Bottom Black
12	1	04367	Spreader Impeller	42	1	48934	Hairpin, Agitator
13	1	27322	Bracket, Flow Control Mount	43	2	45279	Hex bushing Flange
14	1	27314	Arm, Flow Control	44	1	49898	Clip, Hairpin 5/8
15	2	49870	Bolt, Hex 1/4-20 x 2-1/2	45	2	46055	Pin, Spring 1/8 x 1
16	4	46699	Bolt, Hex 1/4-20 x 2	46	6	1543-69	Washer, Nylon .3281 x .75
17	6	1509-69	Bolt, Hex 1/4-20 x 1-3/4	47	2	49897	Clip, Hairpin 7/8
18	1	42839	Bushing, 3/8" Plastic	48	9	43088	Washer, 1/4 Std .312 x .734
19	2	43661	Bolt, Hex 1/4-20 x 1	49	2	48402	Plug, 1/4"
20	2	43840	Bolt, Hex 5/16-18 x 1-1/4	50	1	42347	Spring, Torsion
21	1	44950	Bolt, Carriage 1/4-20 x 3/4	51	1	44101	Pin, Cotter 3/32 X 3/4
22	2	47810	Nut, Hex 5/16-18 Nylock	52	1	47141	Nut, Wing 1/4-20
23	14	47189	Nut, Hex 1/4-20 Nylock	53	1	24858	Stop, Adjustable
24	4	R19212016	Washer, .6562 x 1.25 x .0598	54	1	43848	Grip
25	1	43343	Pin, Hair Cotter 3/32 x 2-5/16	55	1	47623	Pin, Hitch 3/8" x 3" Flat Hd
26	1	46855	Pin, Cotter 3/16 x 2	56	1	68881	Transmission Assembly - not shown (includes 30, 31, 32, 33, 35, 36, 37, 40, 44, 45, & 47)
27	2	45280	Spacer, .64 ID x .88 OD x .625				
28	2	48499B	Hub Cap				
29	3	49449	Plug, 1" Tube	57	1	41316	Vinyl Cover (optional)
30	1	28390	Shaft, Spreader		1	45384	Owners Manual