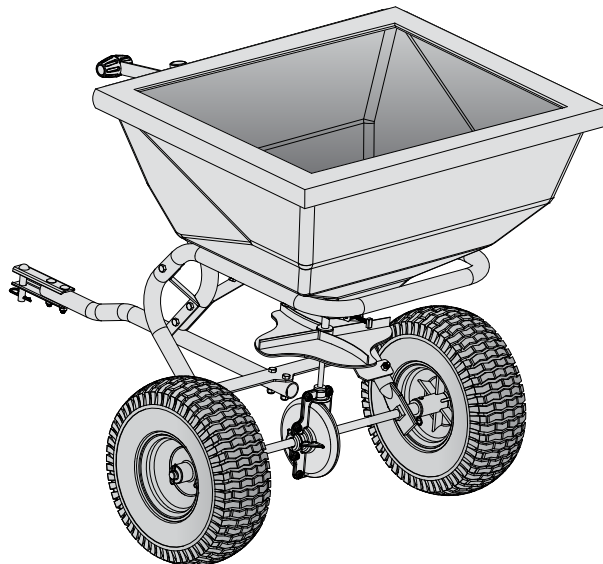




OPERATOR'S MANUAL

Model SPY200T-1P Tow Spreader



Spyker Spreaders

Contact us at 800.972.6130
www.spyker.com

⚠ IMPORTANT

**This manual contains information for the safety of persons and property.
Read it carefully before assembly and operation of the equipment!**

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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.

Some machine preparation may be necessary for 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, please call 1-800-972-6130.

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

SPY200T-1P

**Product
Compatibility**

Compatible with Lawn
and Garden Tractors

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.

OPERATE SAFELY



Read Before Using:

- Use this machine for intended purpose only.
- Keep bystanders away when you operate this machine.
- Do not let children or an untrained person operate machine.
- Keep all parts in good condition and properly installed. Fix damaged parts immediately. Replace worn or broken parts.
- Do not modify the machine or safety devices. Unauthorized modifications to the machine may impair its function and safety, and void the warranty.
- Do not let anyone sit or ride on the equipment during operation.
- Wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Do not wear loose fitting clothing that can get caught in moving parts.
- Always wear eye protection when operating the equipment.
- Stay alert for holes in the terrain and other hidden hazards.
- Watch out for traffic when crossing or near roadways.
- Before you operate any feature of this machine, observe your surroundings and look for bystanders.
- Always wash hands after contact with fertilizers and pesticides.
- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Always remove material from hopper before attaching spreader on a vehicle-mounted spreader caddy.

Towing Loads Safely

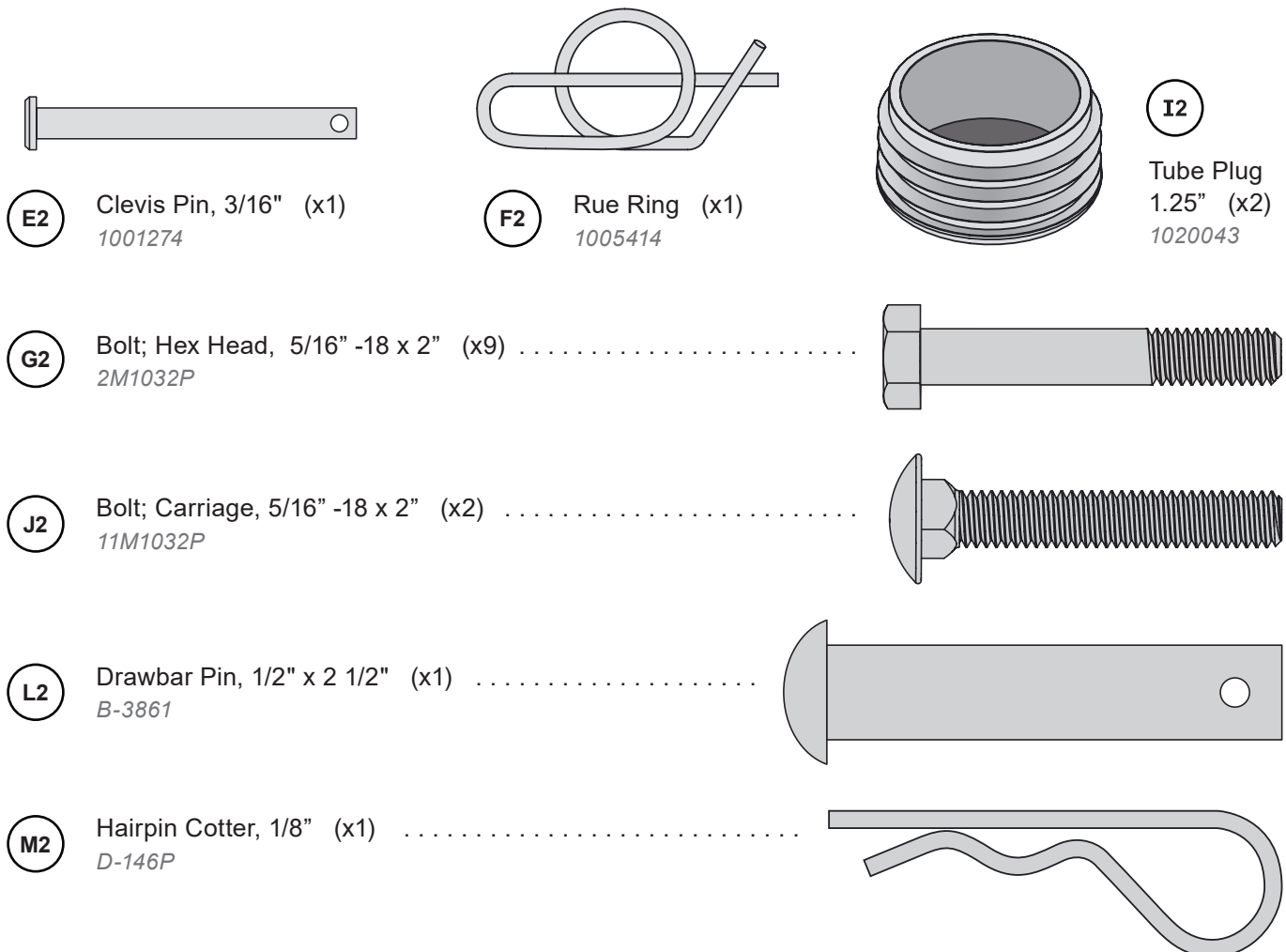
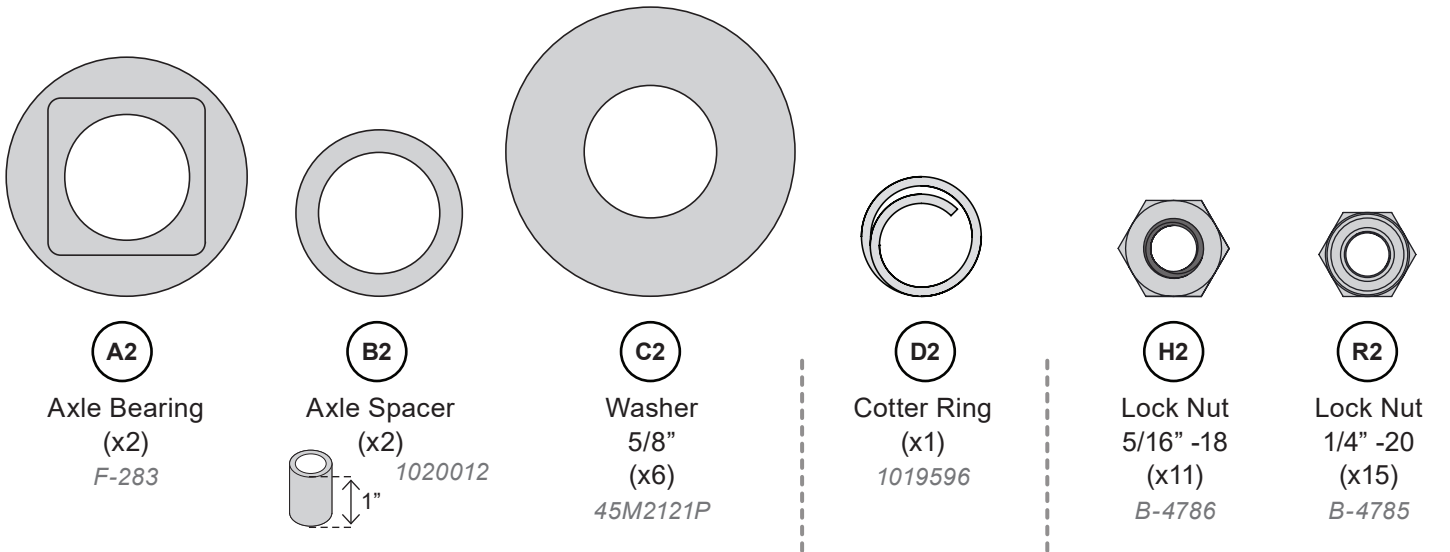
- Stopping distance increases with speed and weight of towed load. Travel slowly and allow extra time and distance to stop.
- Total towed weight must not exceed limits specified in towing vehicle operator's manual.
- Excessive towed load can cause loss of traction and loss of control on slopes. Reduce 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.

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

Hardware Identifier

ILLUSTRATIONS ON THIS PAGE ARE TO SCALE FOR FASTER IDENTIFICATION OF HARDWARE DURING ASSEMBLY.

DO NOT RETURN PRODUCT IF YOU ARE MISSING PARTS. PLEASE CALL: 1 (800) 972-6130

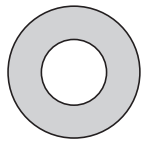


NOTE: An extra washer (C2) has been provided / may be remaining after assembly is complete.

Hardware Identifier

ILLUSTRATIONS ON THIS PAGE ARE TO SCALE FOR FASTER IDENTIFICATION OF HARDWARE DURING ASSEMBLY.

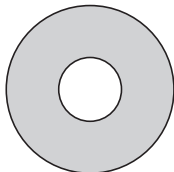
DO NOT RETURN PRODUCT IF YOU ARE MISSING PARTS. PLEASE CALL: 1 (800) 972-6130



K2

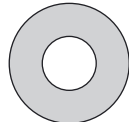
Washer
5/16"
(x2)

45M1111P



N2

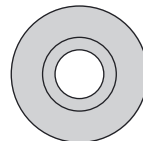
Felt
Washer
(x2)



Q2

Washer
1/4"
(x5)

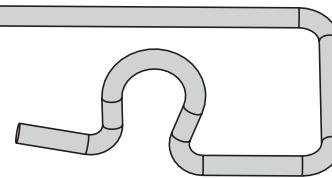
45M0909P



U2

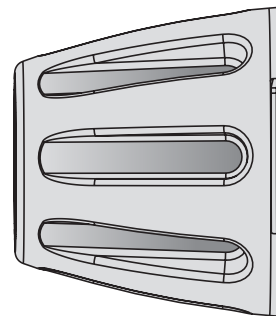
Nylon Flange
Bushing
(x4)

1001533



O2

Spinner
Clip (x1)
1001683



W2

Handle
Knobs (x2)
1007828

P2

Bolt; Hex Head, 1/4" -20 x 2" (x4)

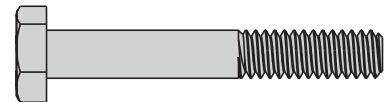
2M0832P



S2

Bolt; Hex Head, 1/4" -20 x 1-3/4" (x3)

2M0828P



T2

Bolt; Hex Head, 1/4" -20 x 2-1/4" (x1)

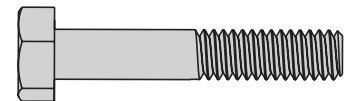
2M0836P



V2

Bolt; Hex Head, 1/4" -20 x 1-1/2" (x1)

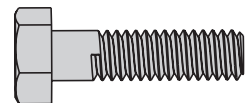
2M0824P



X2

Bolt; Hex Head, 1/4" -20 x 1" (x3)

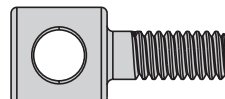
2M0816P



Y2

Linkage Pin (x1)

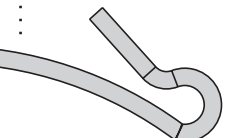
1019874



A3

Agitator (x1)

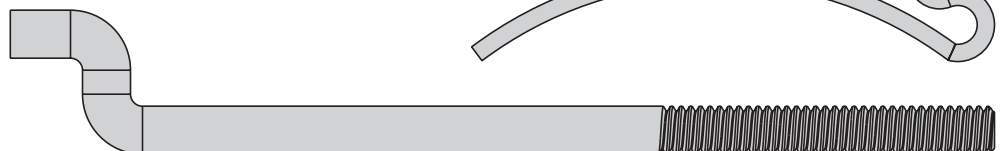
1000223



Z2

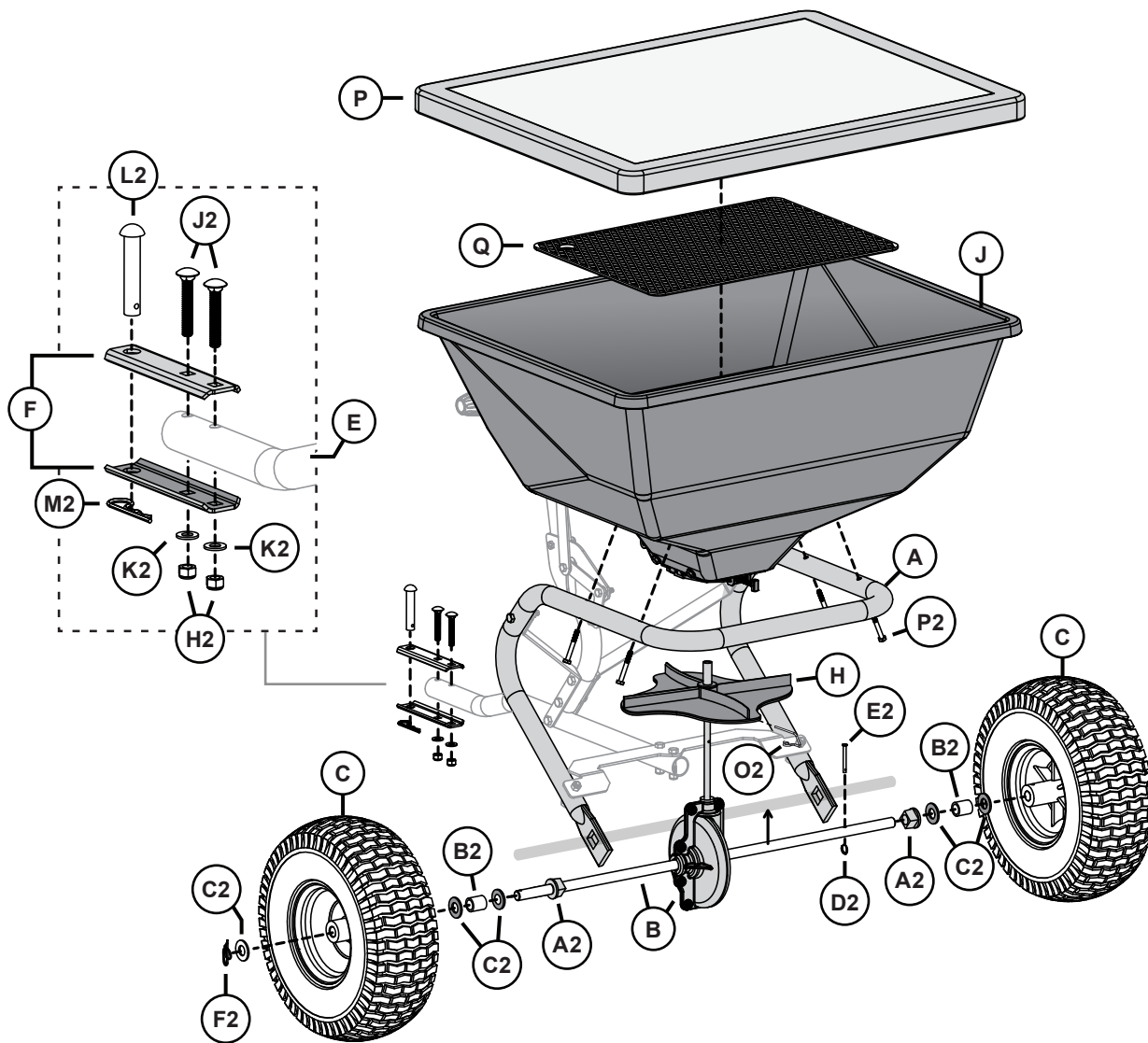
Linkage
Rod (x1)

1019875



Part Explosion

DO NOT RETURN PRODUCT IF YOU ARE MISSING PARTS. PLEASE CALL: 1 (800) 972-6130



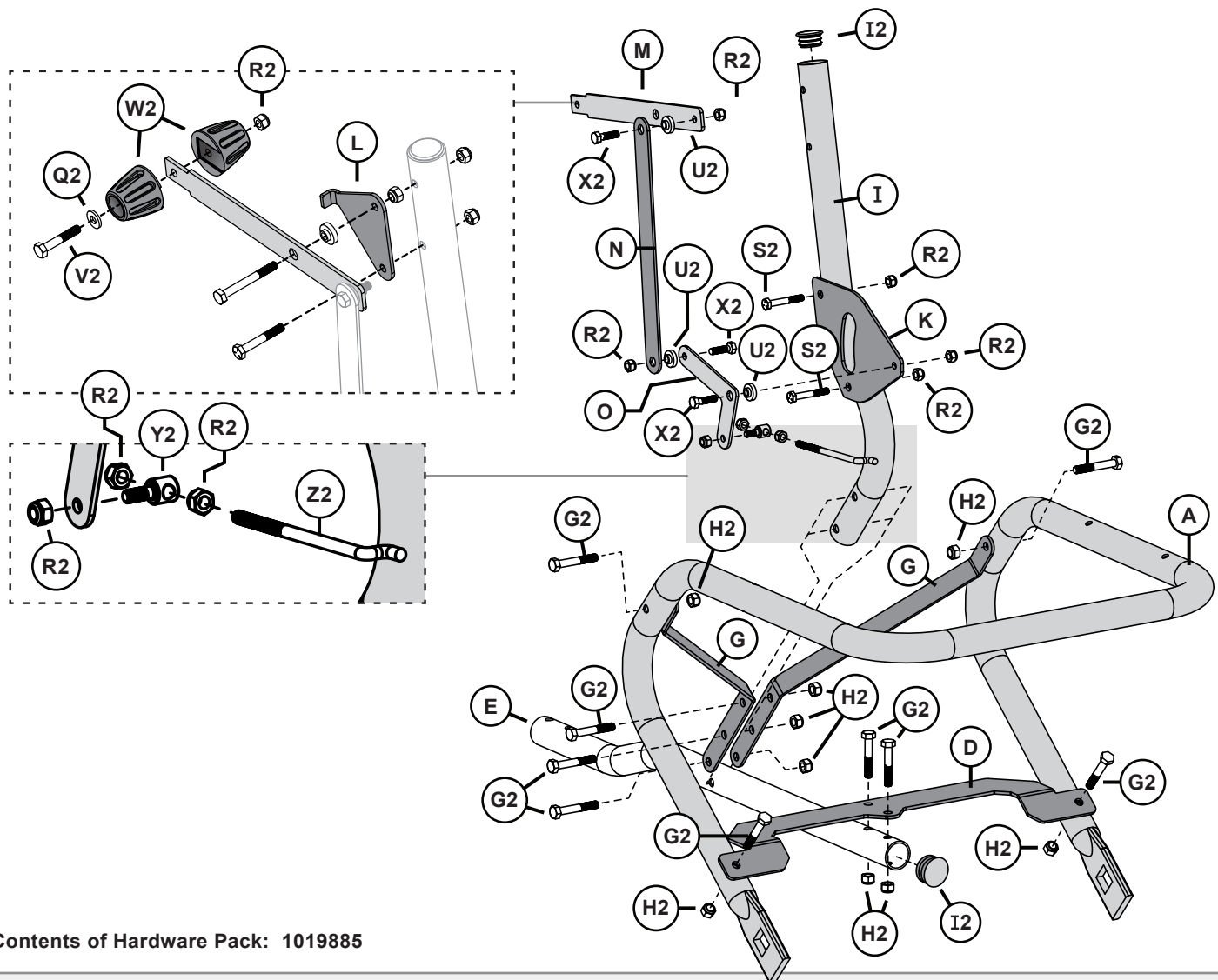
No.	Part #	Qty	Description
A	1019891-10	1	Painted Frame, 200#
B	1019992-2	1	Axle Assembly, 200#
C	1019863	2	Pneumatic Wheel, 15-6-6
D	1019894-10	1	Painted Cross Brace, 200#
E	1019896-10	1	Tow Bar
F	R-892-10	2	Clevis
G	1020016-10	2	Tow Bar Brace
H	1000607	1	Spinner - Drilled (black)
I	1019895-10	1	Riser Bar
J	1020128	1	Hopper, 200lb

^L 1019899 1 Tow Spreader Gate Assy

No.	Part #	Qty	Description
K	1019869-10	1	Pivot Plate
L	1019868-10	1	Lever Stop Bracket
M	1019870-10	1	Gate Lever
N	1019872-10	1	Linkage Arm
O	1019873-10	1	Linkage Pivot
P	1019901	1	Hopper Cover
Q	1019900	1	Screen

Part Explosion

DO NOT RETURN PRODUCT IF YOU ARE MISSING PARTS. **PLEASE CALL: 1 (800) 972-6130**

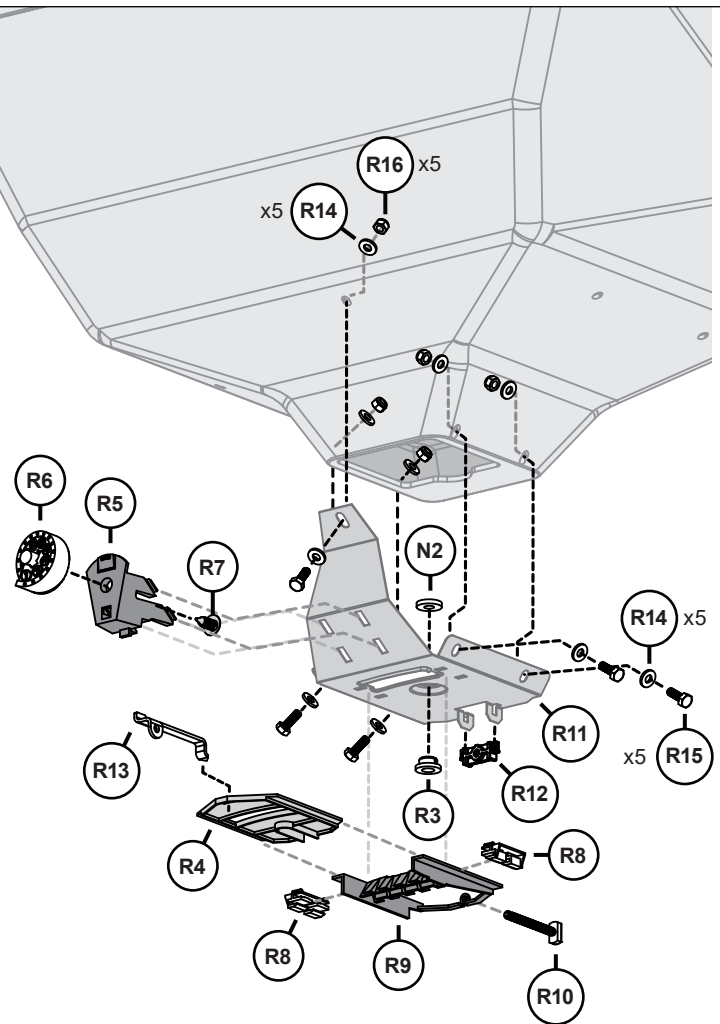
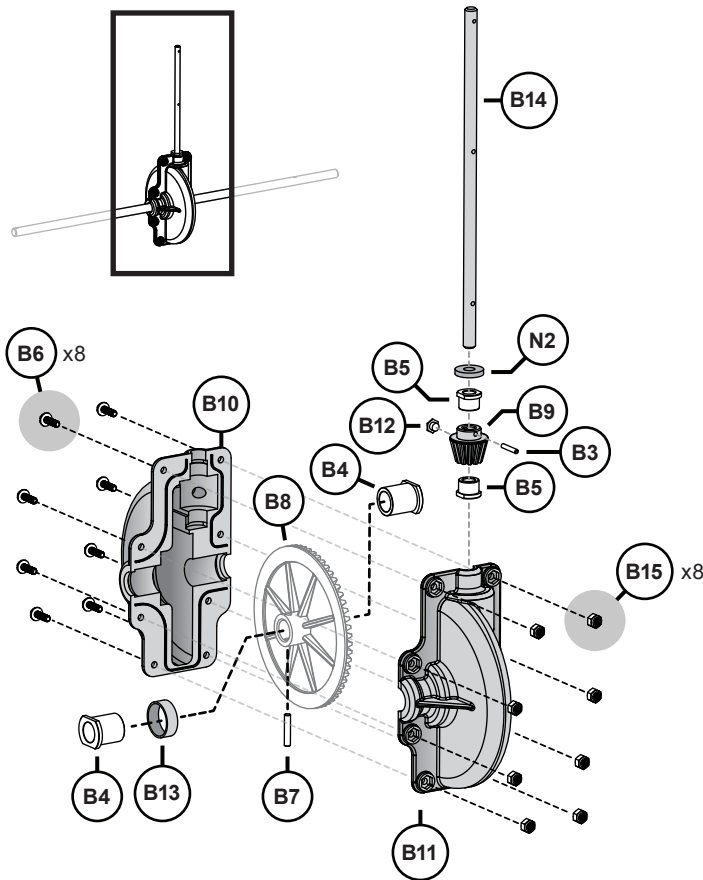
**Contents of Hardware Pack: 1019885**

No.	Part #	Qty	Description
A2	F-283	2	Axle Bearing
B2	1020012	2	Axle Spacer, 0.625
C2	45M2121P	6	Washer; Flat, 5/8
D2	1019596	1	Cotter Ring, S/S
E2	1001274	1	Clevis Pin, 3/16 x 1-3/4
F2	1005414	1	Rue Ring Locking Pin
G2	2M1032P	9	Bolt; Hex Head, 5/16 x 2
H2	B-4786	11	Nut; Nylon Lock, 5/16-18
I2	1020043	2	Tube Plug, 1.25" 14ga
J2	11M1032P	2	Bolt; Carriage, 5/16 x 2
K2	45M1111P	2	Washer; Flat, 5/16
L2	B-3861	1	Pin; Hitch, 1/2" x 2-1/2"
M2	D-146P	1	Cotter; Hairpin, 1/8", #211
N2	1000198	2	Felt Washer

No.	Part #	Qty	Description
O2	1001683	1	Spinner Clip
P2	2M0832P	4	Bolt; Hex Head, 1/4 x 2
Q2	45M0909P	5	Washer; SAE Flat, 1/4"
R2	B-4785	15	Nut; Nylon Lock, 1/4-20
S2	2M0828P	3	Bolt; Hex Head, 1/4 x 1-3/4
T2	2M0836P	1	Bolt; Hex Head, 1/4 x 2-1/4
U2	1001533	4	Nylon Flange Bushing
V2	2M0824P	1	Bolt; Hex Head, 1/4 x 1-1/2
W2	1007828	2	Knob, Handle
X2	2M0816P	3	Bolt; Hex Head, 1/4 x 1
Y2	1019874	1	Linkage Pin
Z2	1019875	1	Linkage Rod
A3	1000223	1	Agitator Wire

Part Explosion

DO NOT RETURN PRODUCT IF YOU ARE MISSING PARTS. PLEASE CALL: 1 (800) 972-6130



No.	Part #	Qty	Description
-----	--------	-----	-------------

B 101992-2 TRANSMISSION			
B3	1000053	1	Roll Pin, 1/8 x 3/4"
B4	1001299	2	Gearbox Bushing, 5/8"
B5	1001301	2	Bushing; Spinner Shaft, 3/8"
B6	1001303	8	Bolt; Flange Head, 10-24 x 5/8" SS
B7	1001304	1	Dowel Pin; SS, 3/16 x 1"
B8	1001516	1	Bevel; Gear
B9	1001518	1	Pinion; Gear
B10	1005336	1	Gear Box Cover; Front
B11	1005337	1	Gear Box Cover; Rear
B12	1005368	1	Grease Zerk Drive IN, 1/4"
B13	1005389	1	Nylon Spacer, Pin Retain
B14	1019860	1	Fan Shaft, Tow Spreader
B15	B-3385	8	Nut, Nylon Lock, #10-24
N2	1000198	1	Felt Washer

No.	Part #	Qty	Description
-----	--------	-----	-------------

1019899 GATE ASSEMBLY			
N2	1000198	1	Felt Washer
R3	1000203	1	Hopper Bottom Bearing
R4	1000210	1	Rate Gate
R5	1000211	1	Dial Mount
R6	1000213	1	Dial, Plastic
R7	1000215	1	Pine Tree Clip
R8	1001521	2	Guide, Rate Gate/Accuway
R9	1001523	1	Accuway Diffuser
R10	1001526	1	Accuway Adjustment Screw
R11	1019761	1	Hopper Bottom
R12	1019861	1	Accuway Adjustment Nut
R13	1019876	1	Rate Gate Link
R14	45M0909P	10	Washer, SAE Flat, 1/4"
R15	2M0812P	5	Bolt, Hex Head, 1/4 x 3/4
R16	B-4785	5	Nut, Nylon Lock 1/4-20

Assembly

ASSEMBLY TIP

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



bag #1
Step 1



bag #2
Step 2



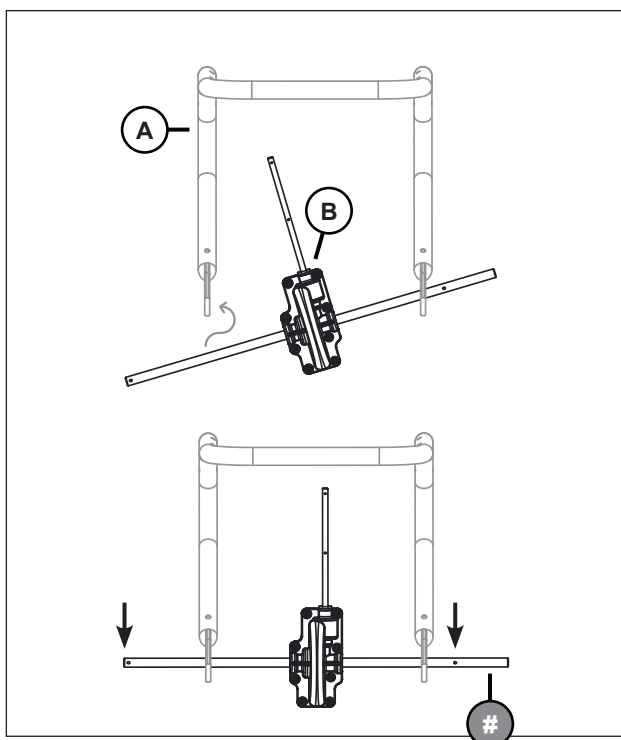
bag #3
Step 3

1-A. Installing the Axle

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

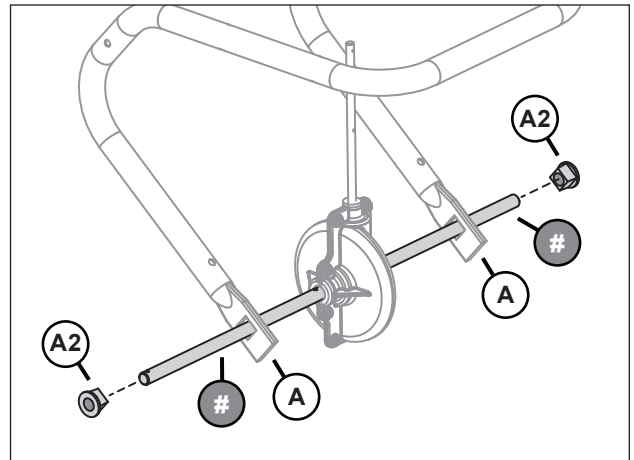
It is also important that the axle (#) is facing the correct direction. (Note the arrows pointing out locations of holes on the axle).

Slide axle (#) through the square holes at the base of the frame (A).



1-B. Installing the Axle

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

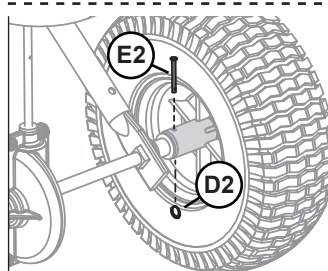
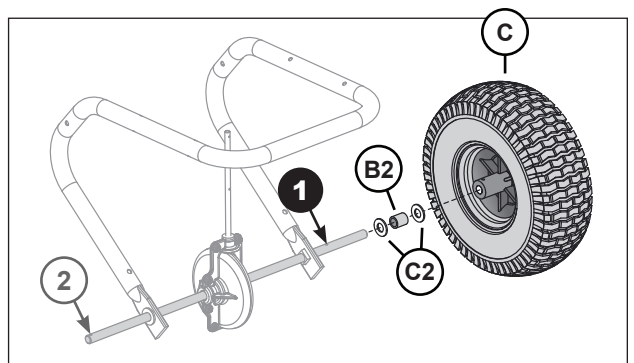


2. Installing the Drive Wheel

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

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.

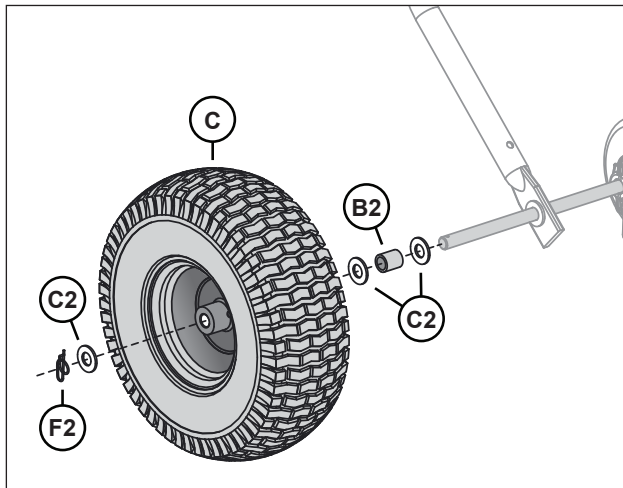
Assembly

3. Install the 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**).

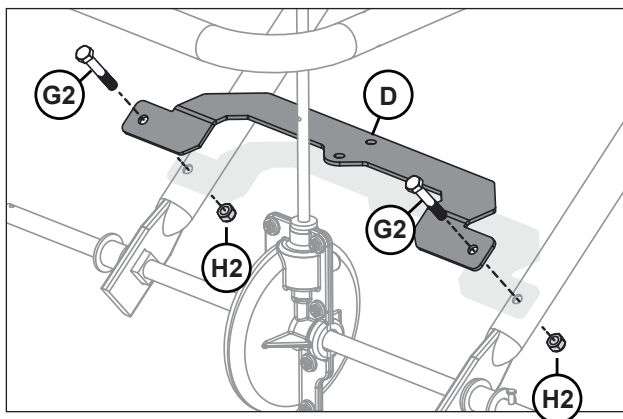
NOTE: An extra washer will be provided.



4. Adding the Cross Brace

Align the cross brace (**D**) to the frame (**A**) as illustrated below. On each end, insert a 5/16" x 2" bolt (**G2**) and secure beneath the frame with a 5/16" locknut (**H2**).

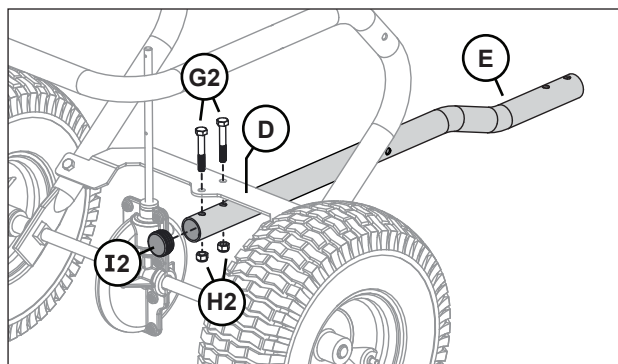
NOTE: Wheels not illustrated on this step for clarity / proper alignment.



5. Attaching the Tow Bar

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

- For Hitch Heights 9" or Below:

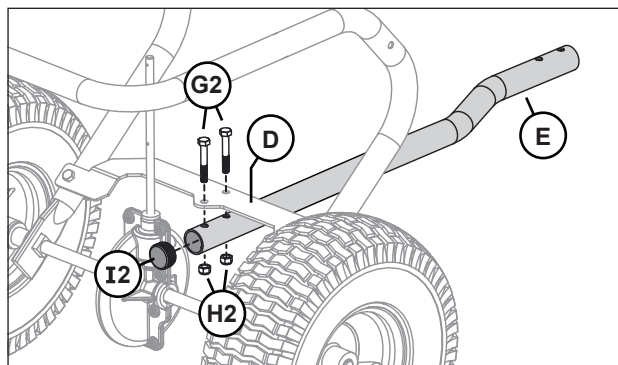


Align the tow bar (**E**) below the cross brace (**D**) as illustrated above.

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.

- For Hitch Heights Over 9" Off 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.

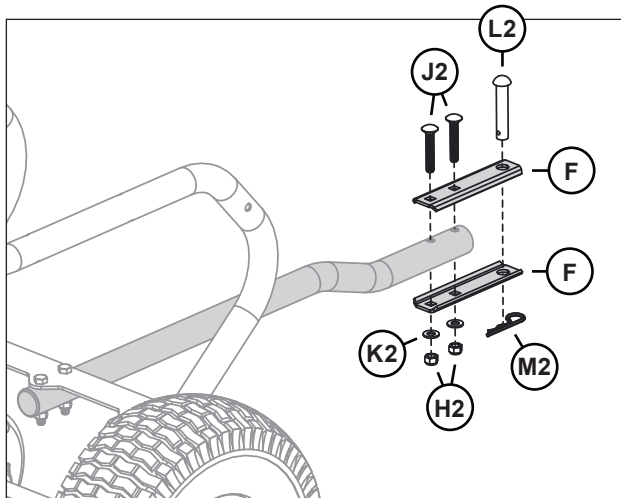
NOTE: These bolts will be tightened on step 8.

Assembly

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).

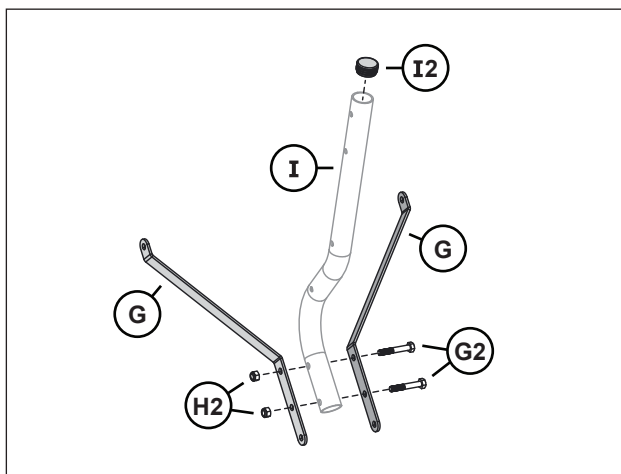


7. Frame Support Brackets

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.

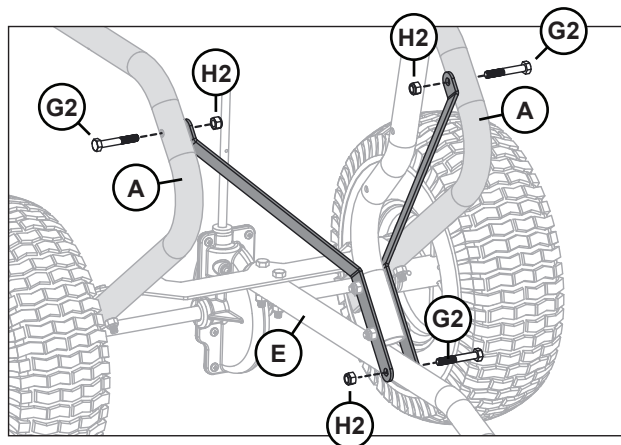


8. Attach Support Brackets

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

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

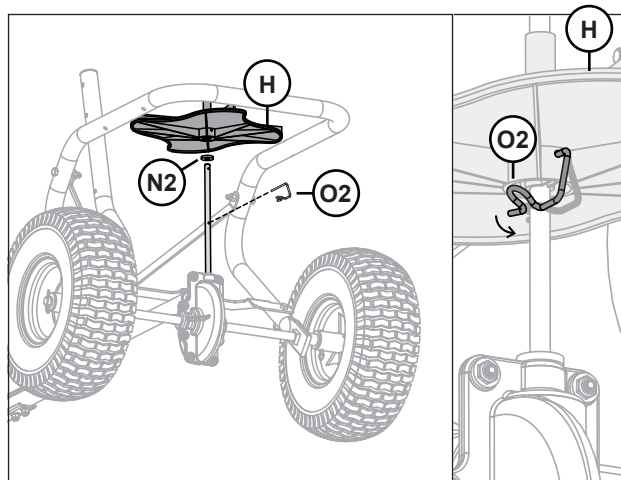
After ensuring the towbar is squared up to the frame, tighten all bolts from steps 5 and 7.



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.

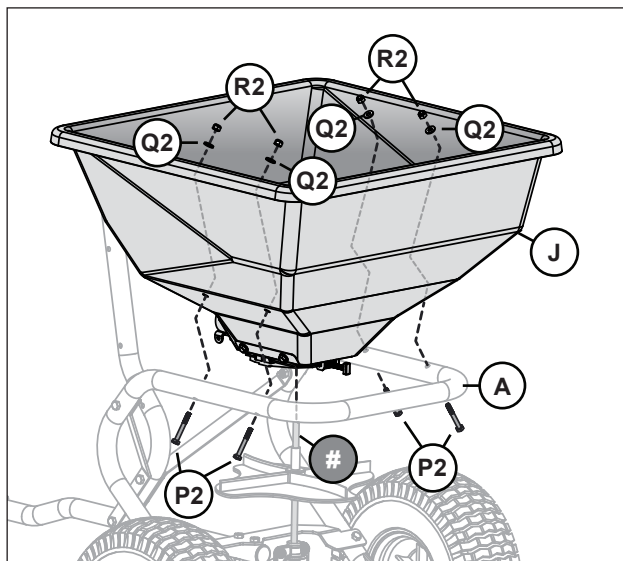


Assembly

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:

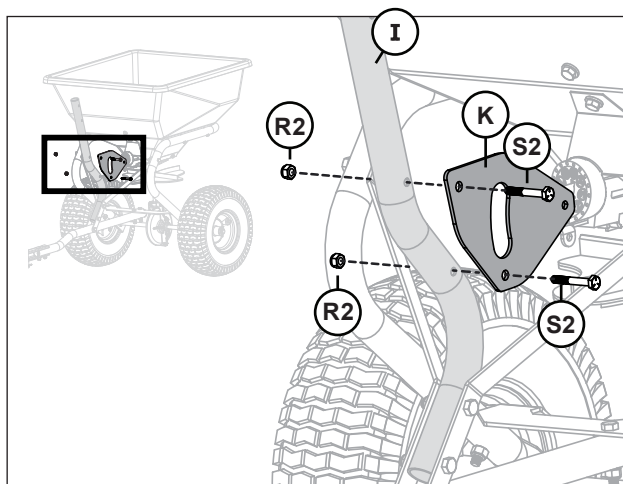
- (x4) 1/4" x 2" Bolts (**P2**)
- (x4) 1/4" Washers (**Q2**)
- (x4) 1/4" Lock Nuts (**R2**)



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**)

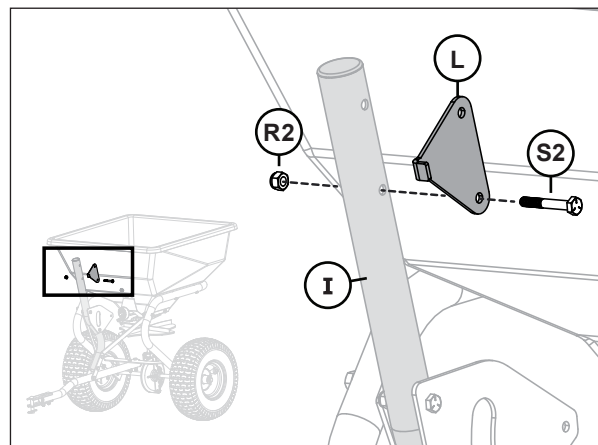


12. Lever Stop Bracket

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:

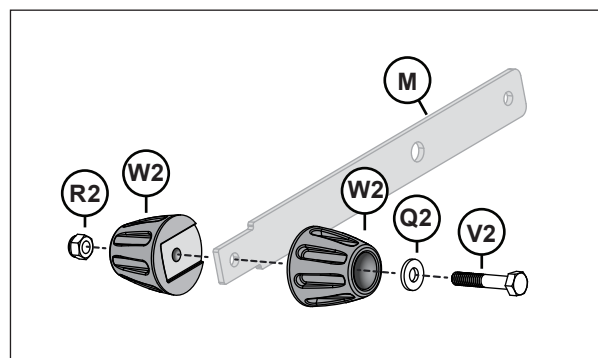
- (x1) 1/4" x 1-3/4" Bolt (**S2**)
- (x1) 1/4" Lock Nut (**R2**)



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**)



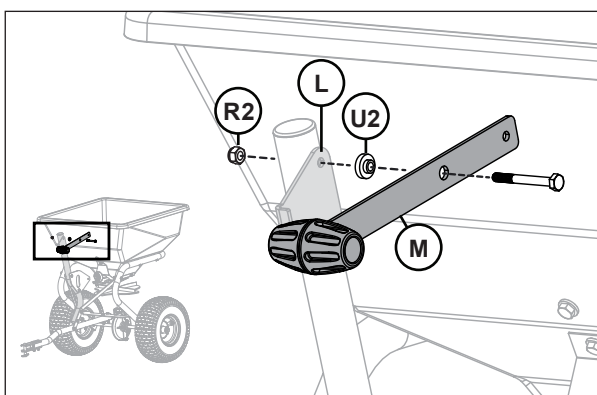
Assembly

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).

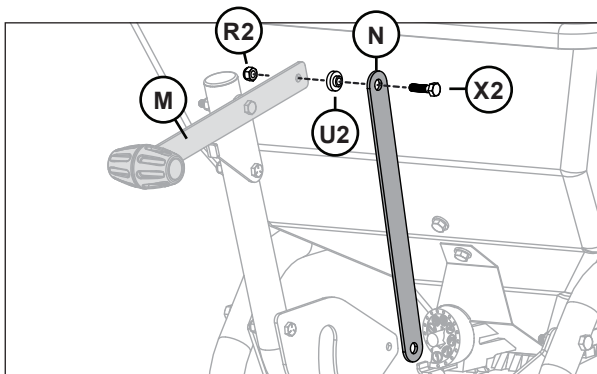


14. Linkage Arm

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.



15. Linkage Pivot

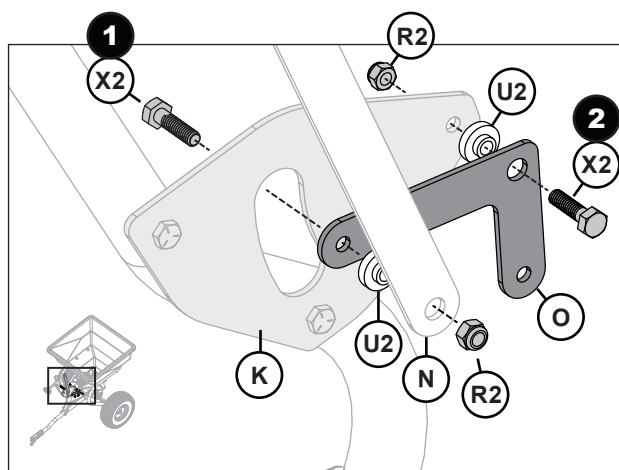
Attach linkage pivot (**O**) with hardware in the following order: (**NOTE:** Bolt together snug but not tight).

Bolt 1:

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

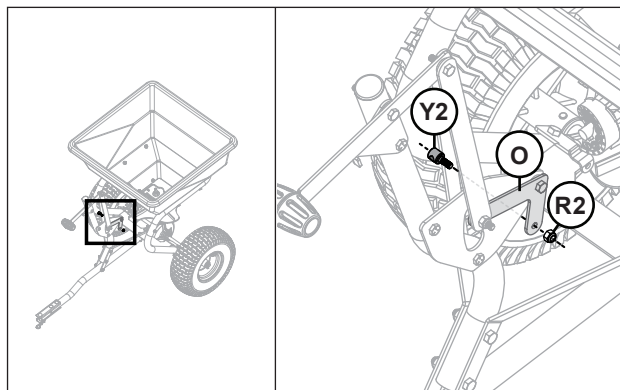


16. Linkage Pin

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**)

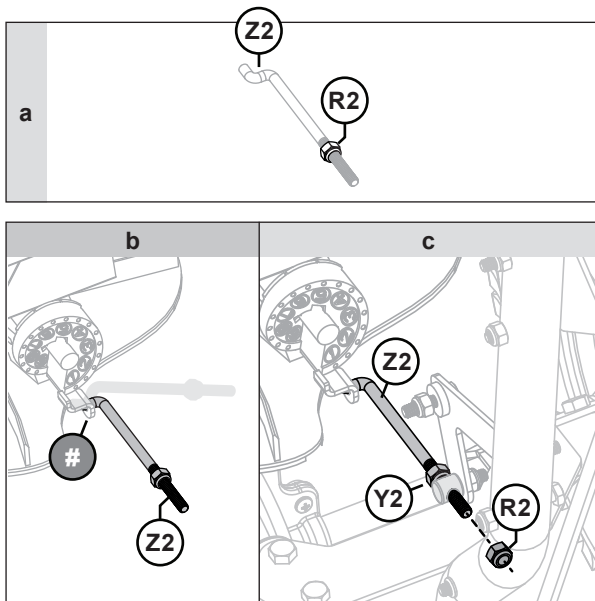
NOTE: Bolt together snug but not tight.



Assembly

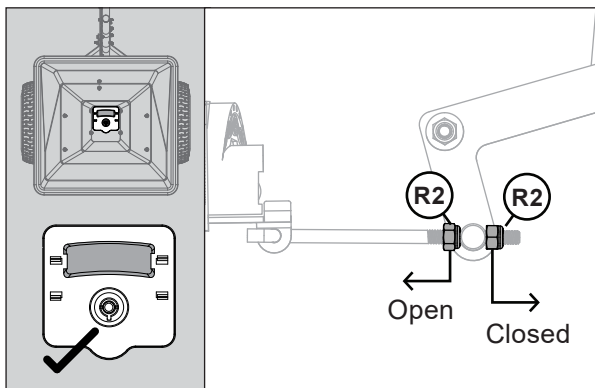
17-A. Linkage Rod

- 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**).



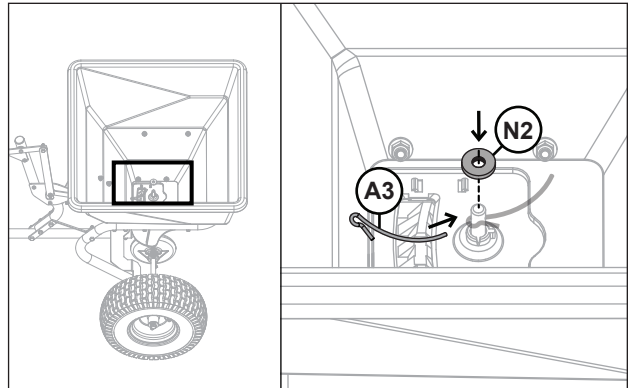
17-B. Linkage Rod

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



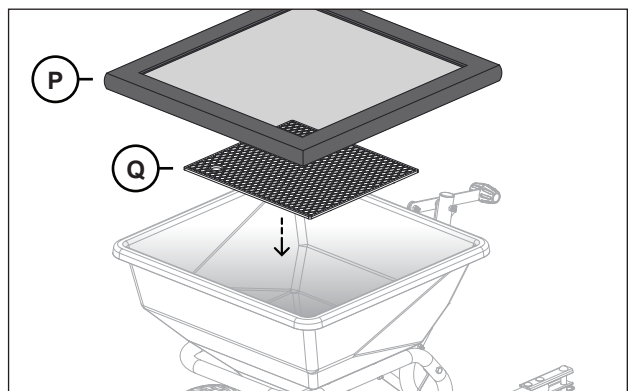
18. Agitator Pin

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



19. Screen and Cover

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



Assembly is complete.

Use and Care

SPECIFICATIONS

200 lb Spreader (SPY200T-1P)

Capacity

Spreader Weight 49 lbs (20.2 kg)

Hopper Capacity 200 lbs (90.7 kg)

Maximum Combined

Weight 249 lbs (112.9 kg)

Tires

Pneumatic 15 x 6 NHS 2-Ply Rating

Max Inflation Pressure* 30 psi (207 kPa)

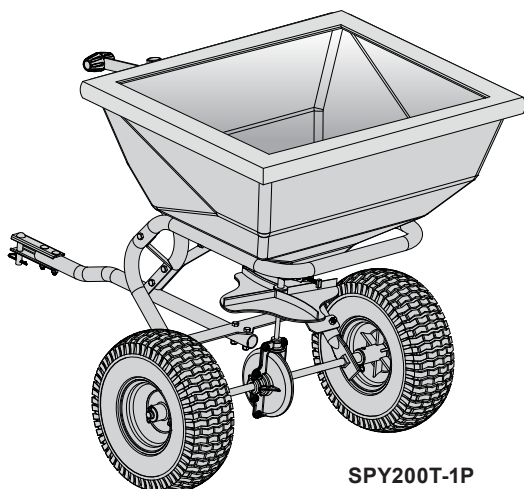
— *Tire pressure may be reduced to increase wheel traction or to reduce shock, although it should not be reduced to below 70% of the maximum rated pressure.

Hopper

Volume 3.5 ft³ (0.1 m³)

Material High Density Polyethylene

*TIP: Read this entire Use and Care Section and become familiar with the operation of the spreader **BEFORE** you put material in the hopper.*



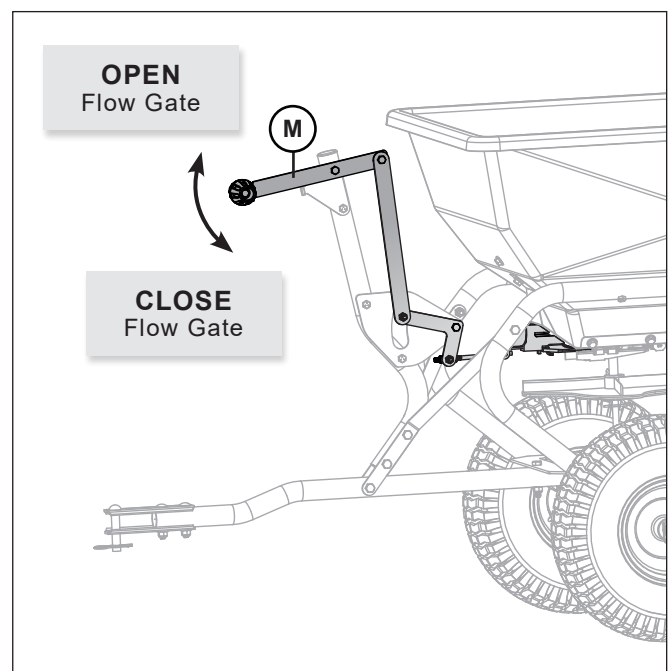
SPY200T-1P

BEFORE OPERATING THE SPREADER

1. Inflate tires to 20 PSI-30 PSI (1.4 BAR-2.1 BAR) (138kPa-207kPa) 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.

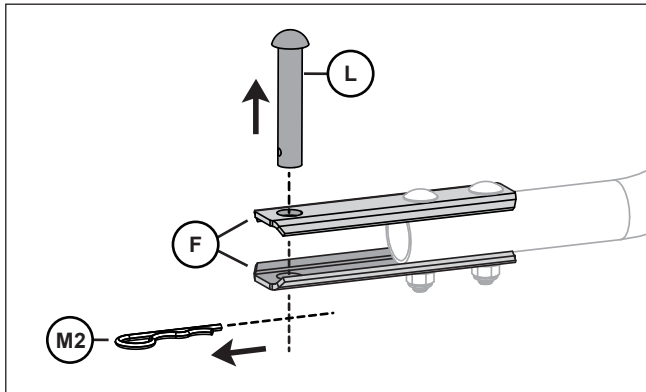
ON / OFF CONTROL LEVER

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.



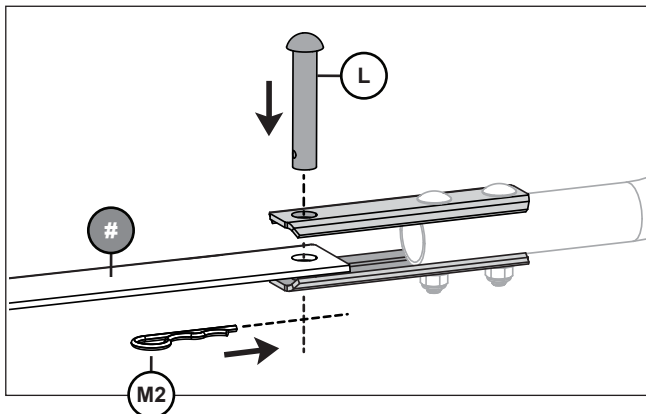
INSTALLING

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**).



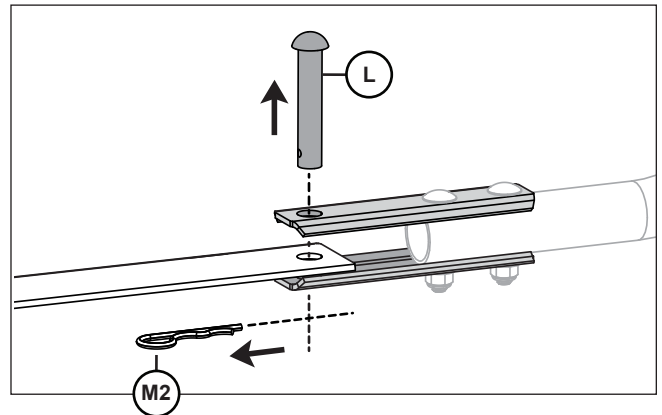
REMOVING

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

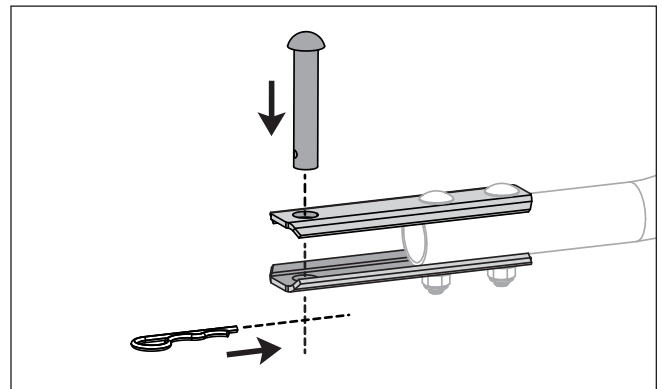


CAUTION: Avoid injury! Keep hands, feet and other body parts away from under the drawbar.

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 the hitch clevis from machine hitch, install hitch pin in hitch clevis for storage and secure with 1/8 in. spring locking pin.

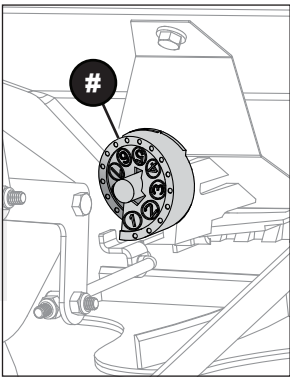
USING THE FLOW CONTROL DIAL

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.


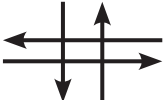


DETERMINING APPLICATION FLOW SETTING

- 1. Check material manufacturer’s container for recommended application flow and setting for your spreader. If no specific recommendation is found, 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.

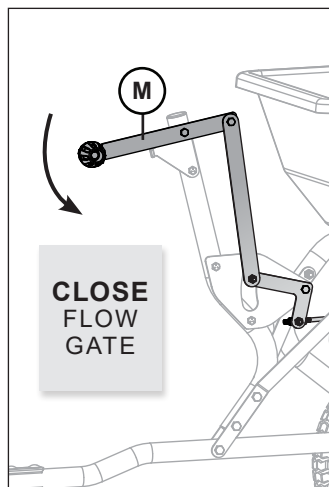
Avoid injury to operator or bystanders:

- 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.

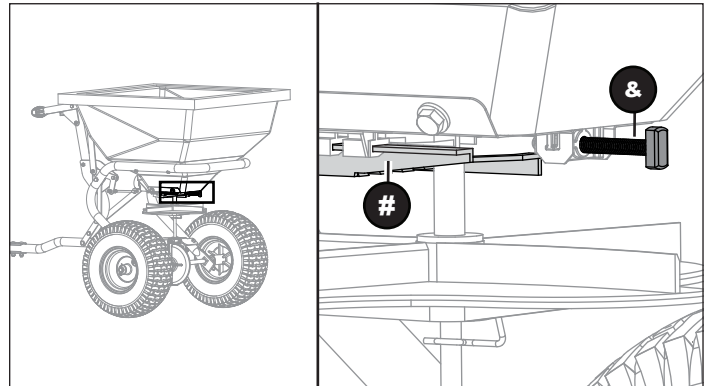
NOTE:

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.

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.

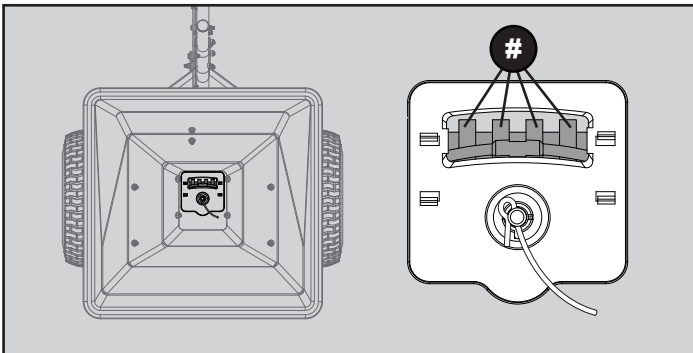
USE THE FOLLOWING PROCEDURE WHILE SETTING THE SPREAD PATTERN

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.

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.

SPREADING THE MATERIAL

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

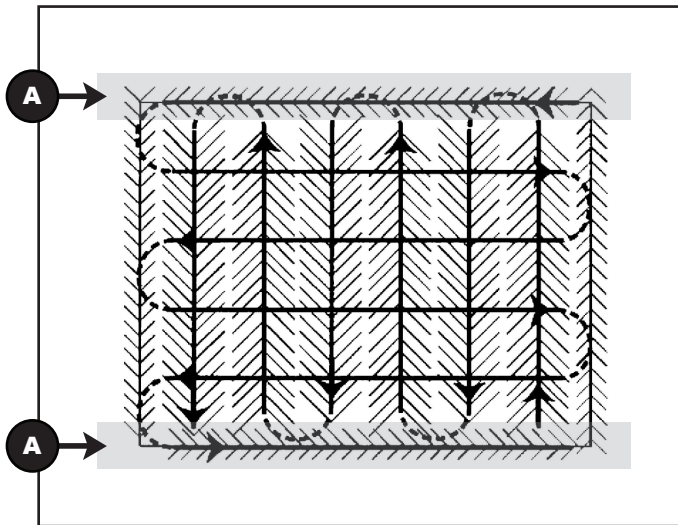
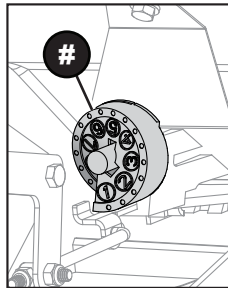
Dual Pass Coverage

(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.

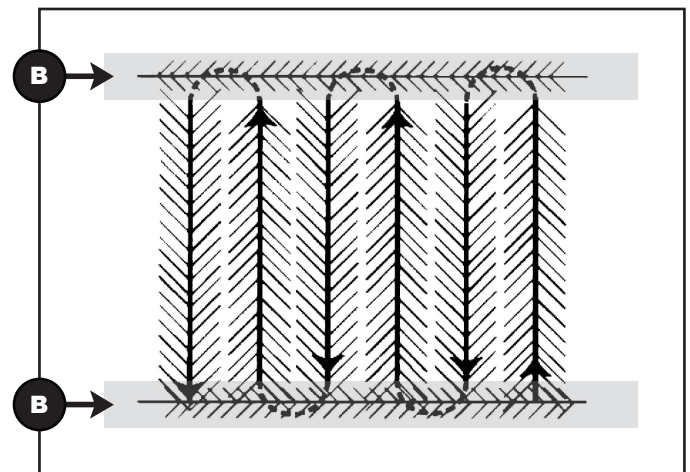
NOTE: “Half Flow” is a proportional reduction of “Full Flow”, not one-half of “Full Flow.” See Flow Setting Tables.



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.

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.

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.

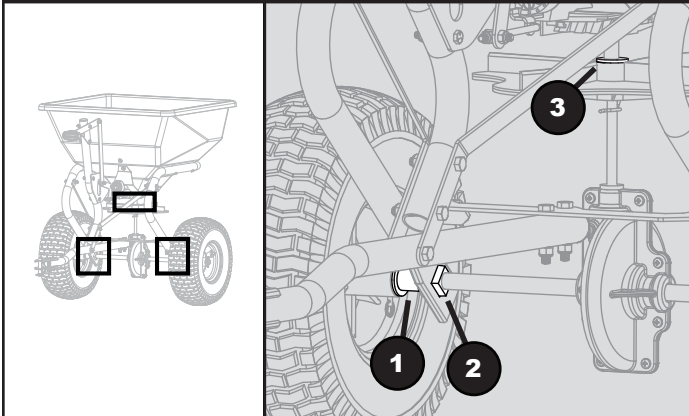
NOTE: *Lubricate more often if frequently operated under adverse conditions.*

RECOMMENDED LUBRICANTS

- Multi-Purpose Lithium Grease

LUBRICATION APPLICATION

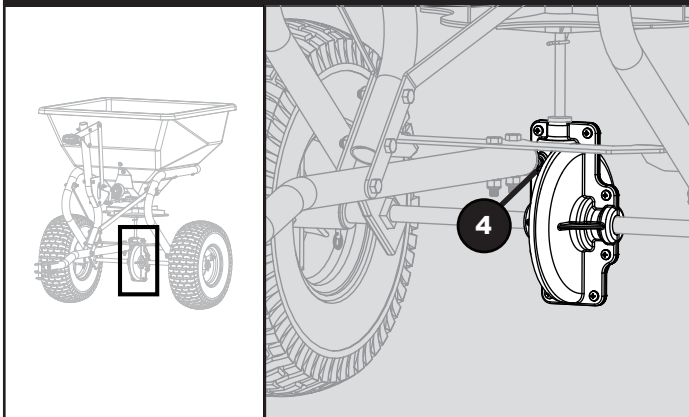
SILICONE SPRAY LUBRICANT



Apply the 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).

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 20 PSI-30 PSI (1.4 BAR-2.1 BAR) (138kPa-207kPa) 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 20 PSI-30 PSI (1.4 BAR-2.1 BAR) (138kPa-207kPa) 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.

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.

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.

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
		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

^
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.



WARRANTY

1 YEAR LIMITED WARRANTY

This is warranted to the original purchaser only. Spyker will replace parts with defects in materials and workmanship, for a period of one year from the date of purchase.

For Spyker Spreaders—a Brinly-Hardy Company, products employing metal gear systems, pinion and bevel, these metal gears, only, not inclusive of any other parts or materials, are warranted for the life of the spreader, not to be used for replacement or repair past original purchase.

Spyker Spreaders will not be liable for any loss, damage or expense including, but not limited to, consequential or incidental damages, arising from the operation, condition or use of the item. The sole and exclusive remedy against Spyker Spreaders being the replacement of the defective parts. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This express warranty, which is applicable only to the original purchase, is in lieu of and excludes all other warranties, whether expressed or implied by operation of law or otherwise, including any warranty of merchantability or fitness for particular purpose.

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