

# 100LB HD PUSH SPREADER



## Instruction & Assembly

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

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## GENERAL WARNINGS



### **READ and UNDERSTAND this manual completely before using Push Spreader.**

Operator must read and understand all safety and warning information, operating instructions, maintenance and storage instructions before operating this equipment. Failure to properly operate and maintain the push spreader could result in serious injury to the operator or bystanders.

### **Operation Warnings**

- Do not at any time carry passengers sit or stand on the spreader.
- Do not allow children to play on, stand upon or climb in the spreader.
- Always inspect the spreader before using to assure it is in good working condition.
- Replace or repair damaged or worn parts immediately.
- Always check and tighten hardware and assembled parts before operation.
- Do not exceed equipment maximum load capacity of 100lb.
- Avoid large holes and ditches when transporting loads.
- Be careful when operating on steep grades (hill) the spreader may tip over.
- Do not push close to creeks, ditches and public highways.
- Do not use spreader on windy days when spreading grass seed or herbicides.
- Always use caution when loading and unloading spreader.
- Never tow the spreader with a motorized vehicle.

### **Crush and Cut Hazards**

- Always keep hands and feet clear from moving parts while operating the equipment.
- Always clear and keep work area clean when operating.
- Always wear safety gear, eye protection, gloves and work boots when operating the spreader.



### **WARNING**

The warnings, cautions, and instructions outlined in this instruction manual cannot cover all possible conditions or situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product and must be supplied by the operator.



### **PROP 65 WARNING**

This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

### **Assembly Is Required**

This product requires assembly before use. See "Assembly" section for instructions. Because of the weight and size of the push spreader, it is recommended that another adult be present to assist with the assembly. **INSPECT ALL COMPONENTS** closely upon receipt to make sure no components are missing or damaged.

# Hazard Signal Word Definitions

	<p>This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.</p>
	<p><b>DANGER</b> indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</p>
	<p><b>WARNING</b> indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</p>
	<p><b>CAUTION</b> indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.</p>
	<p><b>CAUTION</b> used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.</p>

## ABOUT YOUR PUSH SPREADER

This push spreader is designed to spreader a wide range of materials (Fertilizer and Grass Seed). Materials such as Powders, Manure, Top Soil, Gravel, and Mulch have the wrong physical characteristics and should not be used with this spreader. Never exceed the rated load capacity of 100lbs when operating the spreader.

Your spreader needs to be pushed at three miles per hour, which is a brisk walking speed. Slower or faster speeds will change the spread patterns. Wet spreading material will also change the spread pattern and flow rate. Clean your spreader thoroughly after each use. Wash between the shut off plate and bottom of the hopper.

Ensure that the FRONT of the gear box points to the front of the spreader. The impeller must turn clockwise. Reversing the gear box will cause the impeller to turn counter clockwise. Clean the impeller plate after each use. Spreading material stuck on the impeller blades will cause uneven spreading.

**Do not open the gear box or dirt may enter these gears are permanently lubricated at the factory.**

Technical specifications on the push spreader are provided in the “Specifications” section of this manual.

## Controls and Features Identification

Read this owner's manual before operating the equipment. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.



- 1) **Handle** – Pushes and moves the spreader easily.
- 2) **Flow Control** – Controls the flow of material being spread.
- 3) **Hopper** – Do not exceed rated load capacity 100lb.
- 4) **Tires / Wheel** – Do not exceed recommended rated 25 PSI.
- 5) **Impeller** - Evenly distributes material.
- 6) **Support Leg** – Stabilizes load and spreader.



## CAUTION

Read and follow all instructions for assembly and operation. Failure to properly assemble this equipment could result in serious injury to the user or bystanders, or cause equipment damage.

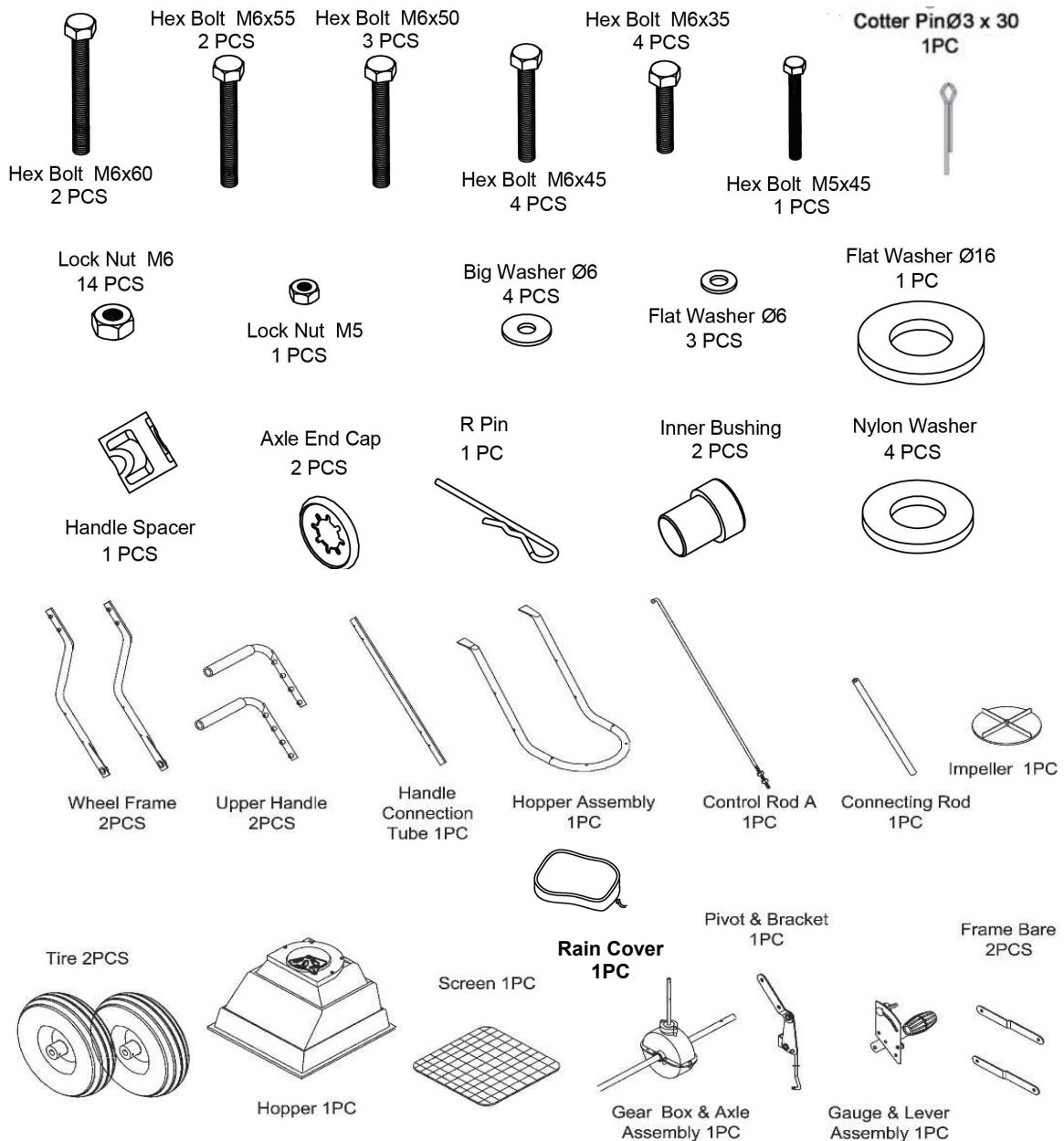
### PUSH SPREADER COMPONENT PARTS AND ASSEMBLE.

Take all parts out of the shipping crate and inspect components to ensure there are no missing pieces before starting to assemble the push spreader follow steps 1 through 8.

#### TOOLS REQUIRED

- ☒ Rubber Hammer
- ☒ 8mm Wrench
- ☒ 10mm Wrench
- ☒ Phillips Screwdriver

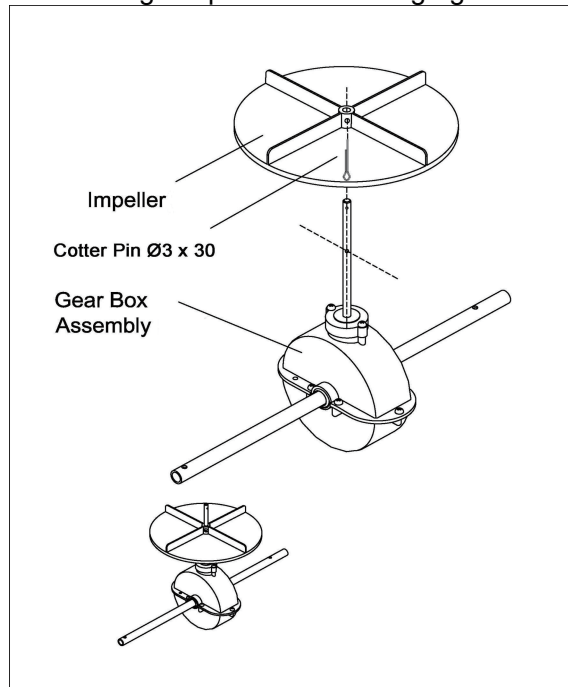
## Component Parts



# Assembly Instructions

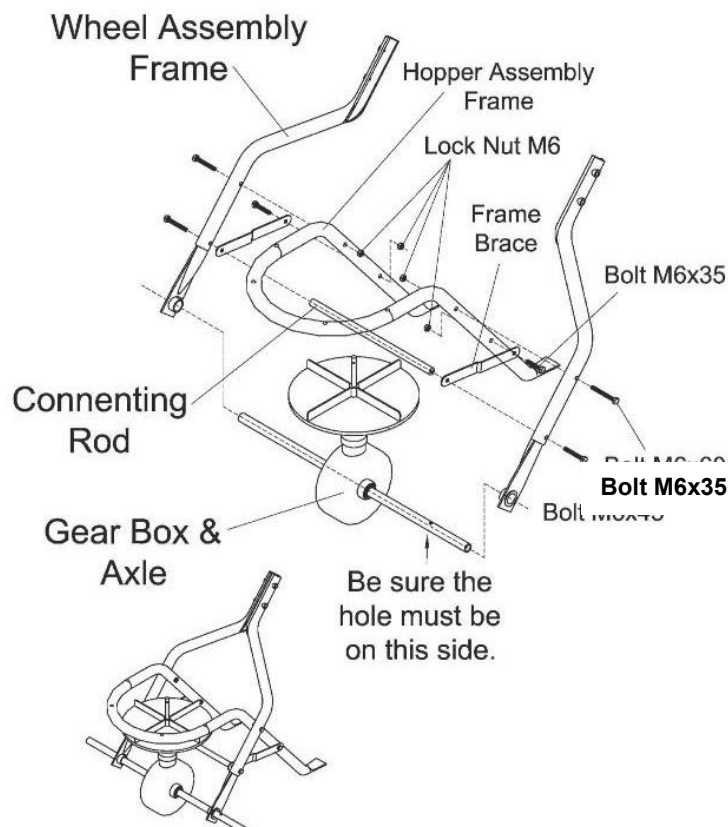
## STEP 1: Install impeller onto the Gear Box

1. Insert Cotter Pin Ø3 x 30 through impeller then through gear box axle.



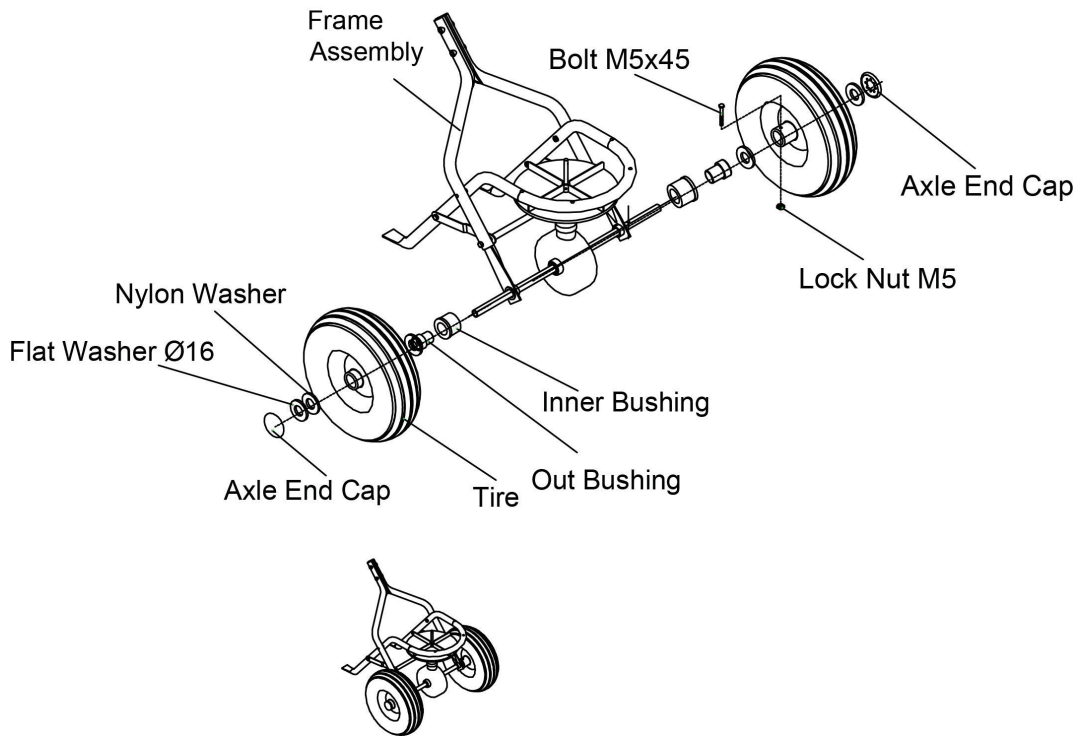
## STEP 2: Install Wheel Assembly Frame on the Gear Box

1. Make sure the hole on axle of gear box is on the right side of the assembly as shown below. Attach one end of frame brace to hopper frame assembly using bolts M6x35 and lock nuts M6.
2. Insert two bolts M6x35 into the connecting cross rod through the wheel assembly frames and frame braces. Insert bolts M6x60 through the wheel assembly frames onto hopper frame assembly, put on lock nuts M6 and loosely tighten.



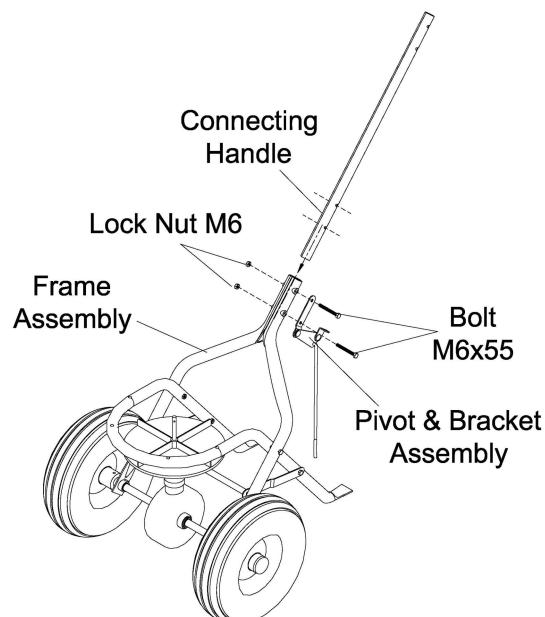
### STEP 3: Insert Inner Axle Bushing into Outer Axle Bushing

1. Make sure everything has been tightened. Install the right tire assembly to right axle using bolt M5x45 and lock nut M5, and then install nylon washer and end cap onto right axle using a wooden or rubber hammer.
2. Install the left tire assembly to left axle, put a nylon washer and flat washer Ø16 and install the end cap onto the left axle using a wooden or rubber hammer.



### STEP 4: Installing Connecting Handle

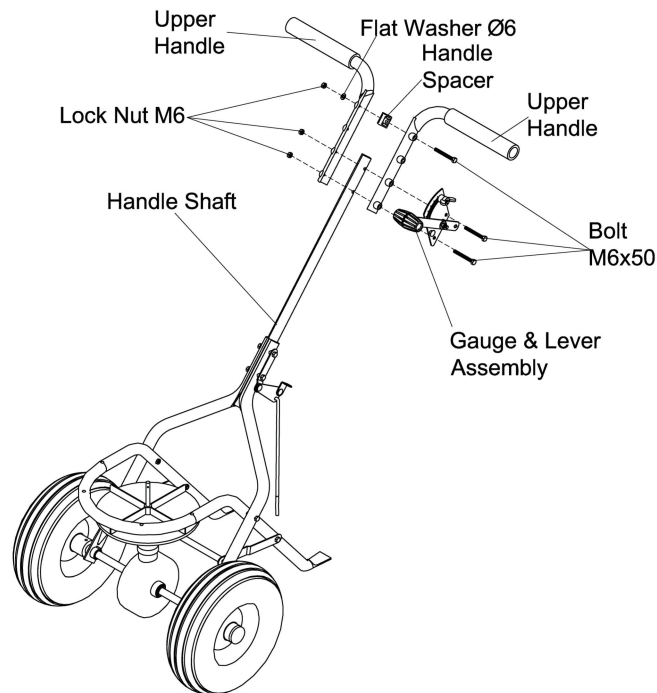
1. Put the connecting handle between the two lower handles of the wheel frame assembly.
2. Attach the pivot & bracket assembly to the lower handles of the wheel frame assembly using bolts M6x55 and lock nuts M6.
3. Tighten all nuts and bolts starting with the first step **DO NOT OVER TIGHTEN**.





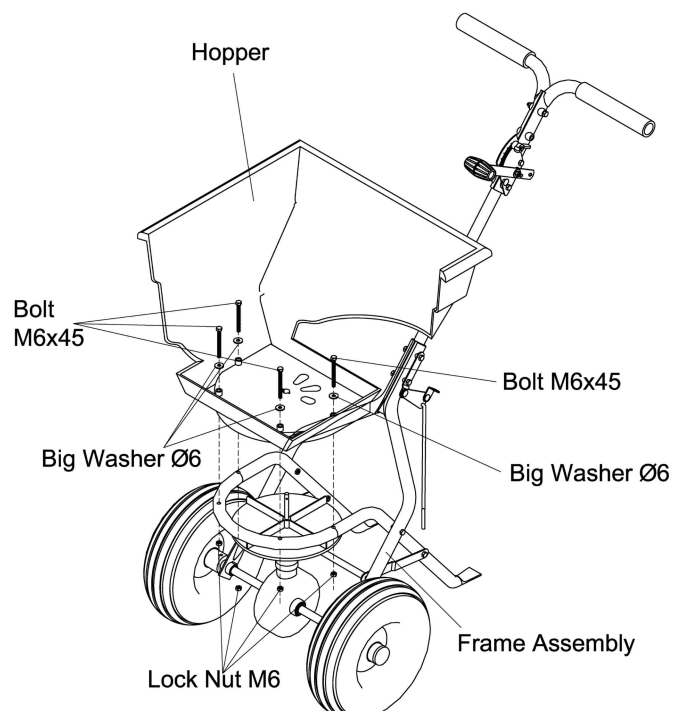
## STEP 5: Installing Gauge and Handle

1. Upper handle has three positions for operator comfort before installing the gauge operator needs to determine the best.
2. Insert bolt M6X50 through both upper handles, flat washer and loosely tighten the M6 lock nut.
3. Install gauge & lever using two M6X50 bolts. Be sure the gauge is on left hand side. Tighten the lock nuts for gauge first, and then tighten the lock nut for the upper handles in step 2.



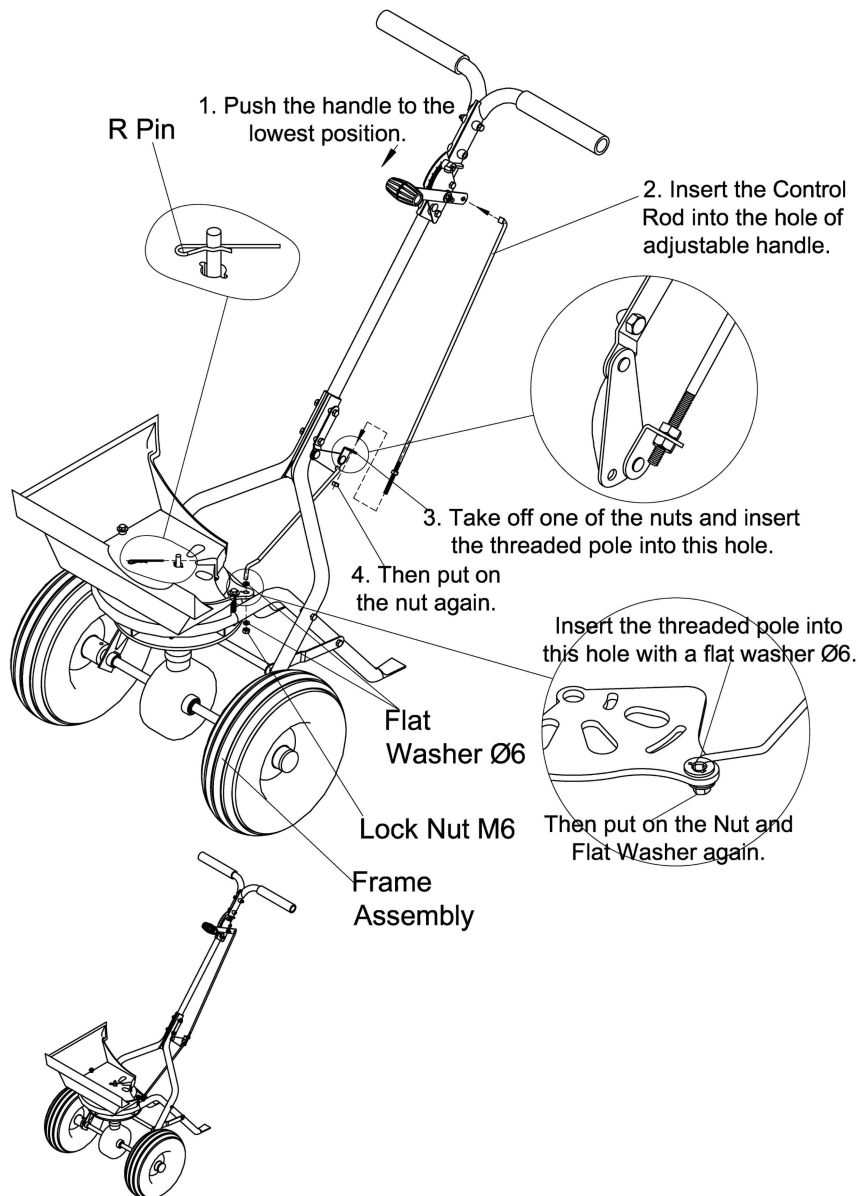
## STEP 6: Installing the Hopper

1. Lower the hopper into the frame assembly, carefully line up the hole in the bottom of the hopper with the frame.
2. Using four hex bolts M6 x 45 and four washers, fasten the hopper to the frame by passing the bolts through the hopper and mounting tube. Secure with lock M6 nuts.



## STEP 7: Installing Control Rod

1. Push the handle gauge to the lowest position and insert the upper end of control rod into the hole on the adjustable handle.
2. Remove one of nuts from threaded pole and insert the nut through the hole of pivot & bracket and threaded pole and tighten.
3. Insert the threaded pole of adjustable pole B into the hole of adjustable plate, and then put the lock nut M6 and flat washer Ø6.
4. Insert R Pin into the hole of turning axle at the bottom of hopper as shown.



## STEP 8: Hopper Adjustments

When you finished all the above steps, you may find three holes at the bottom of hopper; match the three holes with the adjustable plate.

If the holes do not match up do the following steps, Push the handle to the lowest position <downwards> and adjust the positions of these two nuts on threaded control bar so the three holes at the bottom of hopper closely match the three holes of adjustable plate (must closed properly).



# Operation Instructions

## WARNING

Before using the push spreader, review the instructions below and safety information before operating. Failure to follow these instructions may result in property damage or injury to the operator or bystanders.

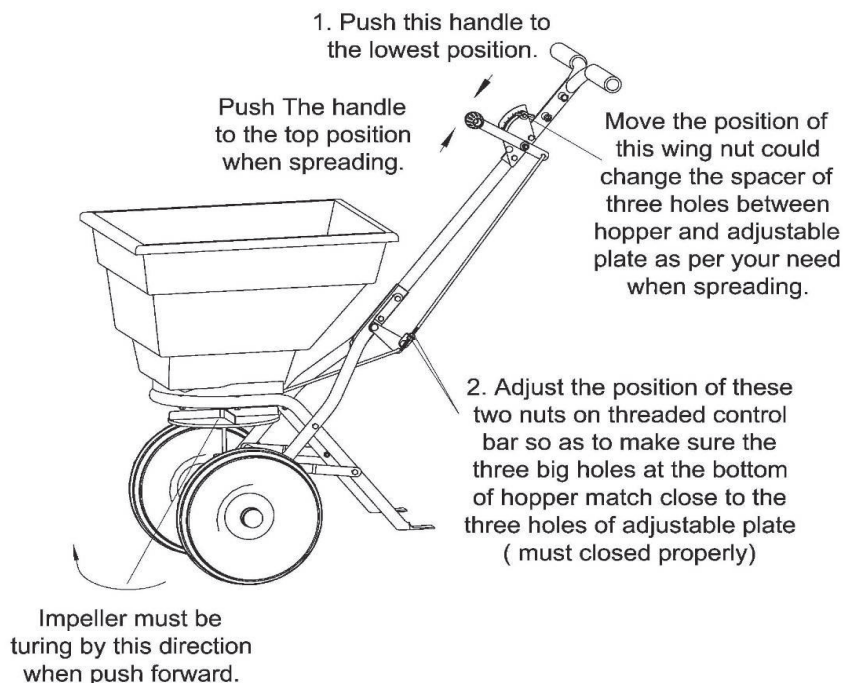
### USING YOUR SPREADER

1. Inspect your spreader before each use. Make sure the wheels turn easily, and the gearbox moves when the spreader is pushed. The hopper should be clean and free from cracks.
2. Spreader is designed to spread a range of materials (Fertilizer and Grass Seed). Materials such as Powder, Manure, Top Soil, Gravel, and Mulch have the wrong physical characteristics and should not be used with your spreader
3. Do not use spreader on windy days when spreading grass seed or herbicides.
4. Determine approximate square footage of the area to be covered and estimate amount of material required. Please refer to fertilizer manufacturer's recommendation. Break up any lumpy fertilizer as you fill the hopper.
5. Before filling the hopper, make sure that the flow control lever is in the "0" position and the flow control plate is closed.
6. Set the adjustable stop with the flow control lever always in the "0" position. Every time you are ready to stop or turn back, close the flow control plate to stop dispersing the material and continue one more stride. This reduces waste and avoids damaging the lawn with oversaturated product coverage.
7. Follow fertilizer manufacturer's recommended coverage rate for each product
8. To maintain the same coverage when walking at a different speed, adjust the flow rate. Reduce the flow setting for slower speeds and increase the flow setting for higher speeds.
9. Keep the impeller plate horizontal when operating the spreader. Tilting the spreader will result in uneven coverage.
10. Make sure the R pin is installed in the hopper before starting the spreader.
11. Always start walking prior to opening the closure plate.
12. Always close the flow control plate before turning or stopping the spreader.
13. If spreading material 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.
14. To insure consistent coverage, make sure each broadcast pattern slightly overlaps the previous broadcast pattern.
15. When broadcasting spreading material, make sure the broadcast pattern does not hit evergreen trees, flowers or shrubs.
16. Do not over apply spreading material. Follow the recommended coverage rate for each product. Over application will lead to lawn damage and contamination.

# Operation Instructions

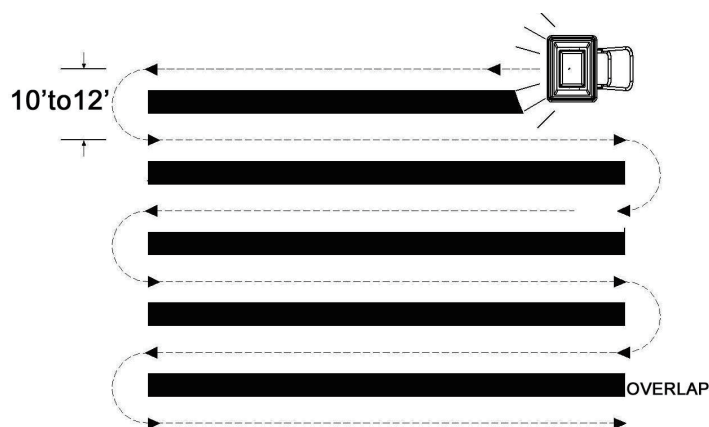
## ADJUSTING THE FLOW

1. Push the handle to the top position (upwards). Move the position of the wing nut on the gauge & lever to adjust the three holes between hopper and adjustable plate when spreading material.



## CONSISTENT COVERAGE

To insure consistent coverage, make sure each broadcast pattern slightly overlaps the previous broadcast pattern as shown in figure below for large particles. The approximate broadcast widths for different size materials are shown in **Chart B**.



## WARNING

Do not over apply spreading material. Follow the recommended coverage rate for each product. Over application will lead to damage and contamination. If spreading material accidentally hits or deposits too heavily, soak the area thoroughly with a garden hose or sprinkler to prevent chemical burning.

# SPREADING INSTRUCTIONS

## CALCULATING AMOUNT OF MATERIAL NEEDED

To calculate the amount of fertilizer you will need to cover your lawn, divide the coverage amount listed on the label by the weight of the fertilizer bag. For example a 10LB. bag of fertilizer with coverage of 10,000 square feet will distribute 1LB. of fertilizer every 1,000 square feet at full rate or 1/2LB. of fertilizer every 1,000 square feet at half rate. For pre-calculated rates see **Chart A** (Example: 25LB. bag with 15,000 sq. ft. coverage = 1.7LB./1,000 sq. ft.). Use **Chart B** to find the closest spreader setting (Example: 1.7LB./1000 sq. ft. = Spreader Setting of 5).

**Chart A - Square Foot Coverage per Bag\***

Weight of Bag (LBS.)	LBS/1,000 SQ FT		
	5,000 SQ FT COVERAGE	10,000 SQ FT COVERAGE	15,000 SQ FT COVERAGE
5	1.0 LB.	0.5 LB.	0.3 LB.
10	2.0 LB.	1.0 LB.	0.7 LB.
15	3.0 LB.	1.5 LB.	1.0 LB.
20	4.0 LB.	2.0 LB.	1.3 LB.
25	5.0 LB.	2.5 LB.	1.7 LB.
30	6.0 LB.	3.0 LB.	2.0 LB.
35	7.0 LB.	3.5 LB.	2.3 LB.
40	8.0 LB.	4.0 LB.	2.7 LB.
45	9.0 LB.	4.5 LB.	3.0 LB.
50	10.0 LB.	5.0 LB.	3.3 LB.

\*These are only estimates actual amounts may vary.

**Chart B - Spreader Settings/Spread Widths**

MULTI-USAGES	LBS/1,000 SQ FT	SPREADER SETTING	<div>•</div> SMALL PARTICLE SPREAD	<div>●</div> MEDIUM PARTICLE SPREAD	<div>●</div> LARGE PARTICLE SPREAD
FERTILIZER  GRASS SEEDS	1	3	5-6 FT.	6-9 FT.	9-12 FT.
	2	5	5-6 FT.	6-9 FT.	9-12 FT.
	3	7	5-6 FT.	6-9 FT.	9-12 FT.
	4	10	5-6 FT.	6-9 FT.	9-12 FT.
	5	12	5-6 FT.	6-9 FT.	9-12 FT.
	6	15	5-6 FT.	6-9 FT.	9-12 FT.
	7	17	5-6 FT.	6-9 FT.	9-12 FT.
	8	20	5-6 FT.	6-9 FT.	9-12 FT.
	9	22	5-6 FT.	6-9 FT.	9-12 FT.
	10	25	5-6 FT.	6-9 FT.	9-12 FT.

**NOTE: DO NOT USE SALT.** Using salt in this spreader will damage the mechanism and shorten the life of the machine.

# Maintenance and Storage



## WARNING

Improper maintenance and storage of the push spreader may void your warranty.

## MAINTENANCE

- ☒ After each use clean material out of hopper.
- ☒ Rinse/dry inside and outside of the spreader after each use.
- ☒ Before operating make sure the tires have the RECOMMENDED TIRE PRESSURE 25 PSI.
- ☒ Periodically check all fasteners for tightness.
- ☒ Annually clean and lightly lubricate parts.
- ☒ Use a glossy enamel spray paint to touch up scratched or worn painted metal surfaces.
- ☒ Never exceed load capacity rating of 100lbs it will damage the spreader.

## IMPORTANT:

If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operations.

## STORAGE

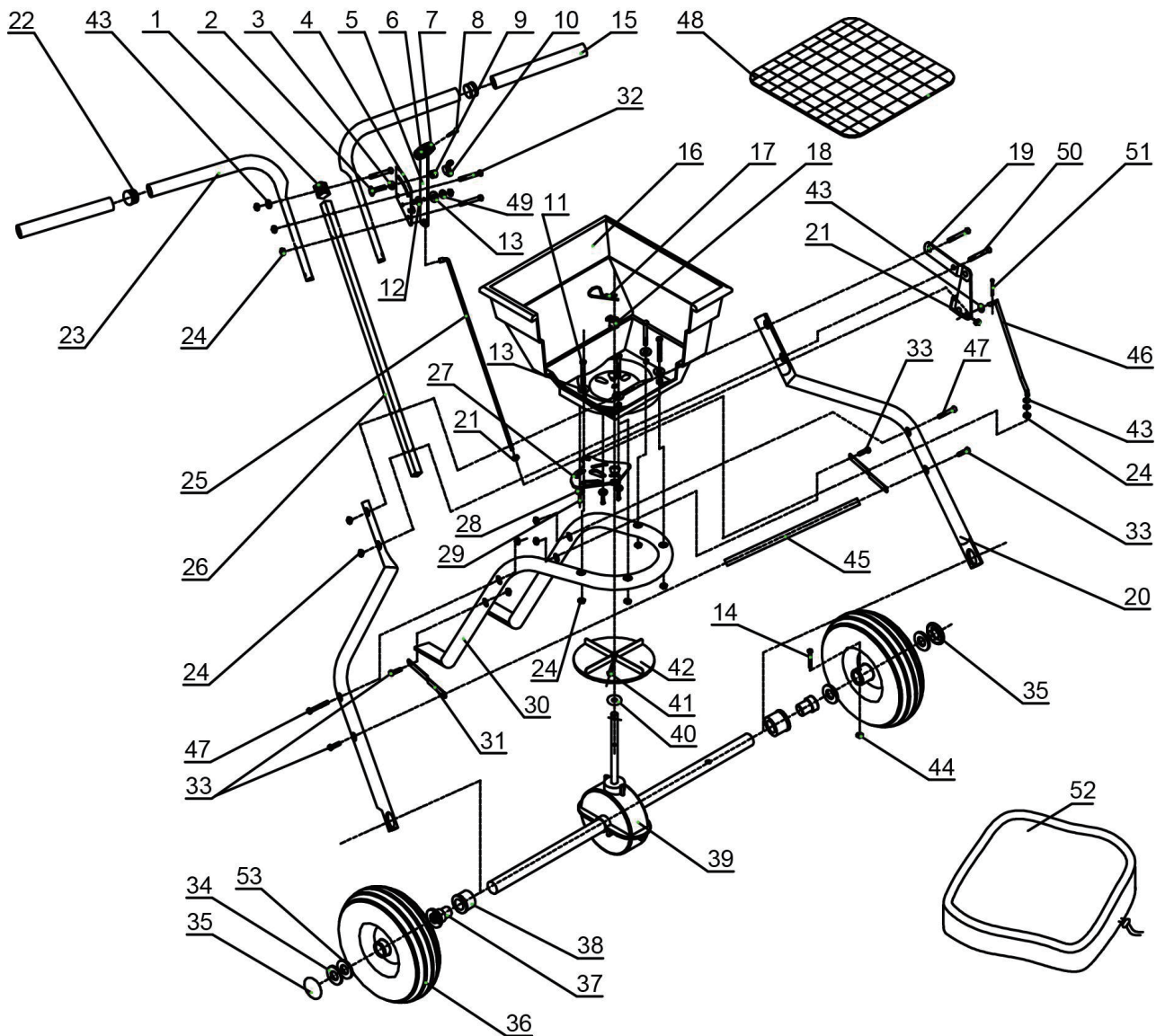
- ☒ Never allow material to remain in the hopper for extended periods of time.
- ☒ Before storing make sure the spreader is clean and dry for years of trouble free service.
- ☒ Store indoors or protected area during severe weather and winter months.

## Specifications

Load Capacity.....	100lb
Spreader Type.....	Broadcast
Hopper Material.....	Polypropylene
Hopper Dimensions.....	21.5" x 21.5"x14"
Overall Dimensions.....	48.8"x32.1"x21.7"
Wheel size.....	12.5"
Tire Pressure (PSI).....	25
Unit Weight.....	25.35lb

The manufacturer reserves the right to make improvements in design and/or changes in specifications at any time without incurring any obligation to install them on units previously sold.

## Parts Drawing & Parts List



Ref#	Drawing No.	Description	Qty
1	N572-00003	Handle Spacer	1
2	9114-06025-DG	Carriage Bolt M6x25	1
3	9315-08000-DG	Teeth Lock Washer Ø8	1
4	N570-10000	Gauge & Lever Assembly	1
5	N570-00001-DG	Adjustable Handle Pole	1
6	N570-00014	Adjustable Handle A	1
7	N570-00015	Adjustable Handle B	1
8	9118-04018-DG	Screw M4x18	1
9	N510-00016	Spacer	1
10	N510-00019	Wing Nut M6	1
11	9101-06045-DG	Hex Bolt M6x45	4
12	C130-00004	Nylon Washer	1
13	9302-06000-DG	Big Flat Washer Ø6	5
14	9101-05045-DG	Hex Bolt M5x45	1
15	N570-00009	Handle Cover	2
16	N572-00001	Hopper	1
17	N570-00017-DG	R Pin Ø2	1
18	N510-00004	Hopper Bushing	1
19	N572-10000	Pivot & Bracket Assembly	1
20	N570-00007	Wheel Assembly Frame	2
21	9201-06000-DG	Hex Nut M6	2
22	T680-00003	End Cover	2
23	N570-00006	Upper Handle	2
24	9206-06000-DG	Lock Nut M6	15
25	N570-00003-DG	Control Rod A	1
26	N572-00002	Middle Connecting Handle	1

Ref#	Drawing No.	Description	Qty
27	N570-00023	Shut off plate	1
28	9302-04000-DG	Big Flat Washer Ø4	3
29	9118-04012-DG	Screw M4x12	3
30	N572-00005	Hopper Assembly Frame	1
31	N570-00010-DG	Frame Brace	2
32	9101-06050-DG	Hex Bolt M6X50	3
33	9101-06035-DG	Hex Bolt M6X35	4
34	9301-16000-DG	Flat Washer Ø16	1
35	N511-40000-BXG	End Cap	2
36	N570-00020	Tire	2
37	N570-00018	Inner Bushing	2
38	N570-00011	Outer Bushing	2
39	N570-40000	Gear Box & Axle Assembly	1
40	N570-00002	Thin Washer	1
41	9110-04020-DG	Cotter Pin Ø3 x 30	1
42	N510-00003	Impeller	1
43	9301-06000-DG	Flat Washer Ø6	4
44	9206-05000-DG	Lock Nut M5	1
45	N570-00021-DG	Connecting Cross Bar	1
46	N570-00004-DG	Adjustable Connecting Rod B	1
47	9101-06060-DG	Hex Bolt M6x60	2
48	N572-00004	Screen	1
49	9306-06000-DG	Lock Washer Ø6	1
50	9101-06055-DG	Hex Bolt M6x55	2
51	9404-02010-DG	Cotter Pin	1
52	N574-00002	Rain Cover	1
53	N570-00027-000	Nylon Washer	4