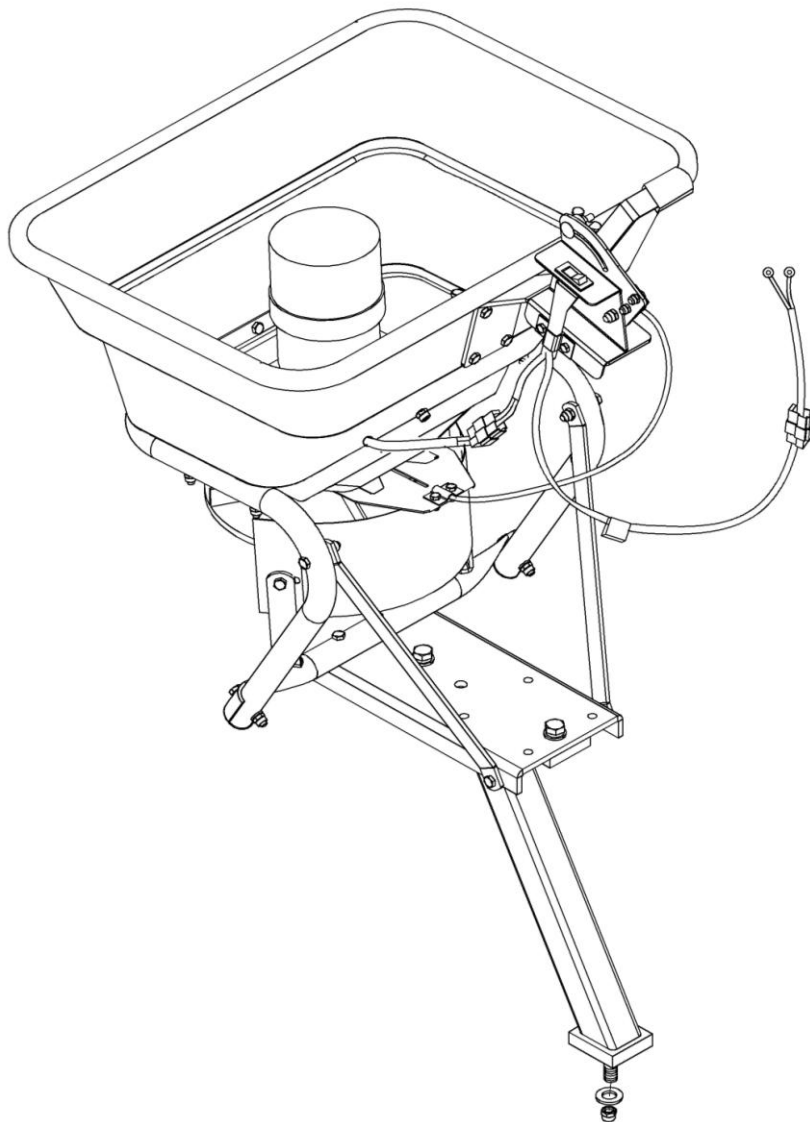




# 80LB LAWN TRACTOR SPREADER



**Model AS-80LT12**

12012014



## **SAFETY PRECAUTIONS**



1. Be sure to wear safety glasses, a dust mask, and proper clothing to prevent coming in contact with any chemicals or dangerous materials that are being applied by this spreader.
2. Make sure to remove any contents that are in the spreader's hopper before attaching, detaching, or lifting this unit.
3. Always refer to the load rating for the vehicle which is located in the vehicle's owners manual. Make sure that the unit weight of 30lbs plus the weight of the contents in the hopper do not exceed that of the vehicle's recommended load rating.
4. To avoid damage to this unit and injury NEVER overload the hopper.
5. Stay clear of all moving and spinning parts or objects of this unit
6. Always follow directions on the package of whatever you are applying with this unit.
7. Use straps as needed to secure unit to the vehicle.

## **Operation Instructions**

1. After assembly attach to rear of vehicle.
2. Read and follow directions on the package of the material being spread by this unit.
3. Fill hopper with desired material to be spread by this unit not exceeding maximum load of 80lbs.
4. Adjust the handle on the gauge assembly so that it is at the desired setting. Then tighten the wing nut on the gauge assembly to set the desired opening. This allows the driver to set the opening to the same place every time while driving the vehicle. See page 3 for spread calculations.
5. Adjust handle on the gauge assembly until desired amount of spreading material is flowing out of the hopper onto the turning plate.
6. Flip rocker switch on cable assembly to on position and begin spreading.
7. Turn Rocker switch off when wanting to stop or pause spreading.
8. Empty and clean hopper when finished.
9. Be sure to use straps as needed to secure the spreader to the vehicle.

**Note: Settings for this product need to be determined by user since factors such as coarseness and density of “material used” affect the spread rates. See page 3 “rate worksheet” to calculate approximate spread rates.**

**When Rate settings are not available, follow these guidelines to calculate spread rates:**

On the bag of material to spread, you will find recommended spread rates, usually in terms to the effect of: so many pounds will cover so many sq. ft.

**Read these steps, then refer to the guide (worksheet page 3)**

1. Determine how much material to apply per 1,000 sq. ft.
2. Measure off a distance of 50ft, preferably on a paved area (ie: parking lot)
3. Weigh out enough material from bag to fill hopper ½ full (recommend at least ½ full hopper) Record weight for later.
4. Set the stop at position with opening of hopper at position you feel appropriate.
5. Now with hopper ½ full, bring vehicle to desired speed before start line of your 50 ft test area.  
When you arrive at start line, turn on spreader, then off at finish line
6. Stop the vehicle and note the width of spread path from your test run.
7. Repeat if necessary; Then empty remaining material from hopper back to your weighing device and record new weight.
8. Be sure to record your results, see below guide on page3.

On the bag of material to spread, you will find recommended spread rates, usually in terms to the effect of: so many pounds will cover so many sq. ft.

Find your Desired Application (spread) Rate

**Example:** To find your desired rate, divide the area (sq. ft.) that bag of material covers by the weight of the bag of material itself. Then multiply by 1,000.

**Example:** 25lb bag / 2000 sq ft coverage = .0125

**.0125 x 1,000 = 12.5** (12.5 is your desired lbs per 1,000 sq. feet)

Record Desired Rate = (lbs per 1,000 sq. ft.) \_\_\_\_\_

TEST RUN to DETERMINE SPREAD RATE:

- Determine lbs (weight) of Material in Hopper for Test Area  
\_\_\_\_\_ Weight of Material put into Hopper  
(Example: pour a 25lb bag into spreader)  
(-) \_\_\_\_\_ Subtract Weight of Material in Hopper (After Test Area is spread)  
(=) \_\_\_\_\_ Weight of Material Used (will be used below)

- Test Area Measurements  
\_\_\_\_\_ Length of Test Area (Recommend: 50 ft)  
(x) \_\_\_\_\_ Width of Spread Area  
(=) \_\_\_\_\_ Total Spread Area

Determine Rate of Spread

Divide the Weight of Material Used in #2, by your Total Spread Area in #3.

Weight of Material Used/Total Spread Area = lbs per sq. ft.

Example: 2 lbs / 500 ft = .004

Multiply lbs per sq ft (x)1000 = \_\_\_lbs per 1000 sq ft

Example: .004 x 1000 = 4

Compare these results to your desired application rate in #1.

Adjust the rate setting stop on the spreader accordingly and run test area again.

Example: Adjust 2 times more open to achieve double the rate of test.

Now you should approx. match your desired application in #1.

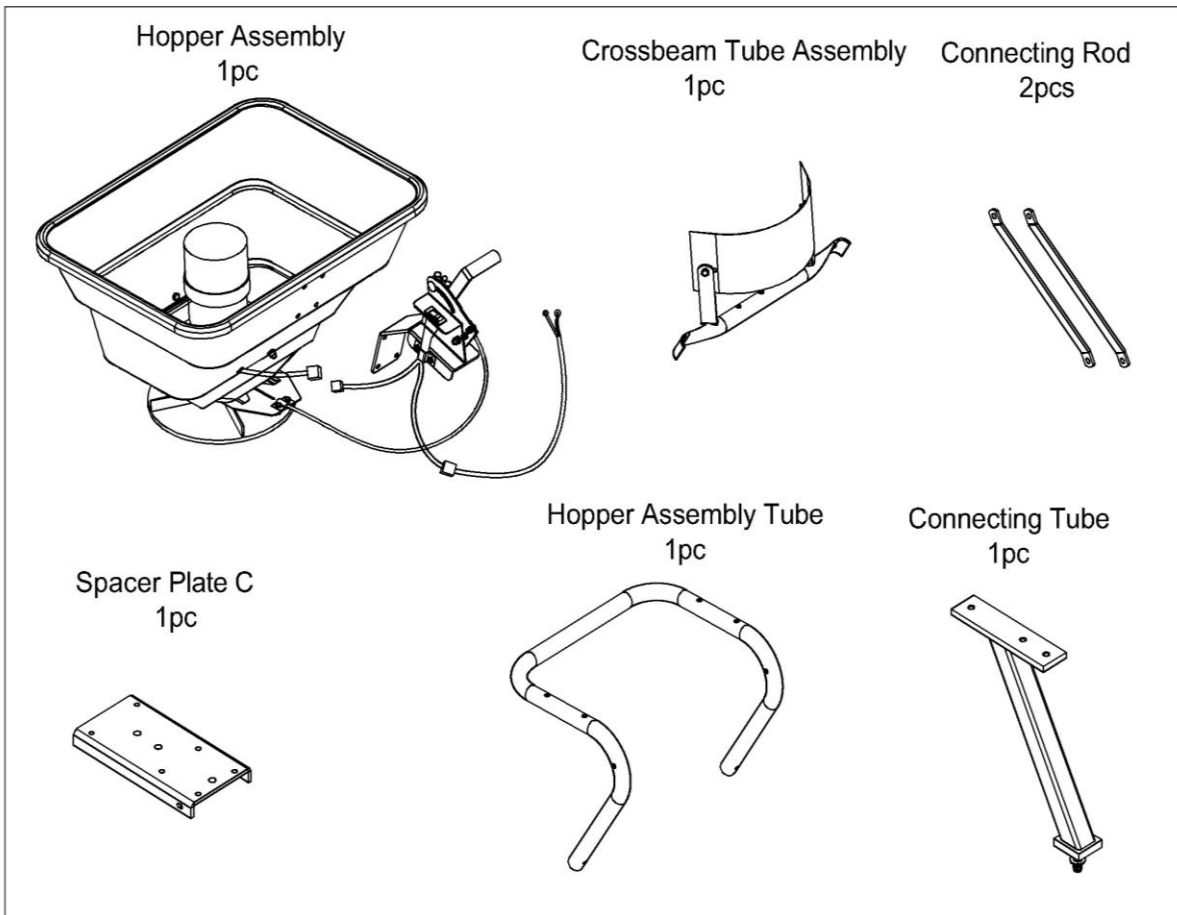
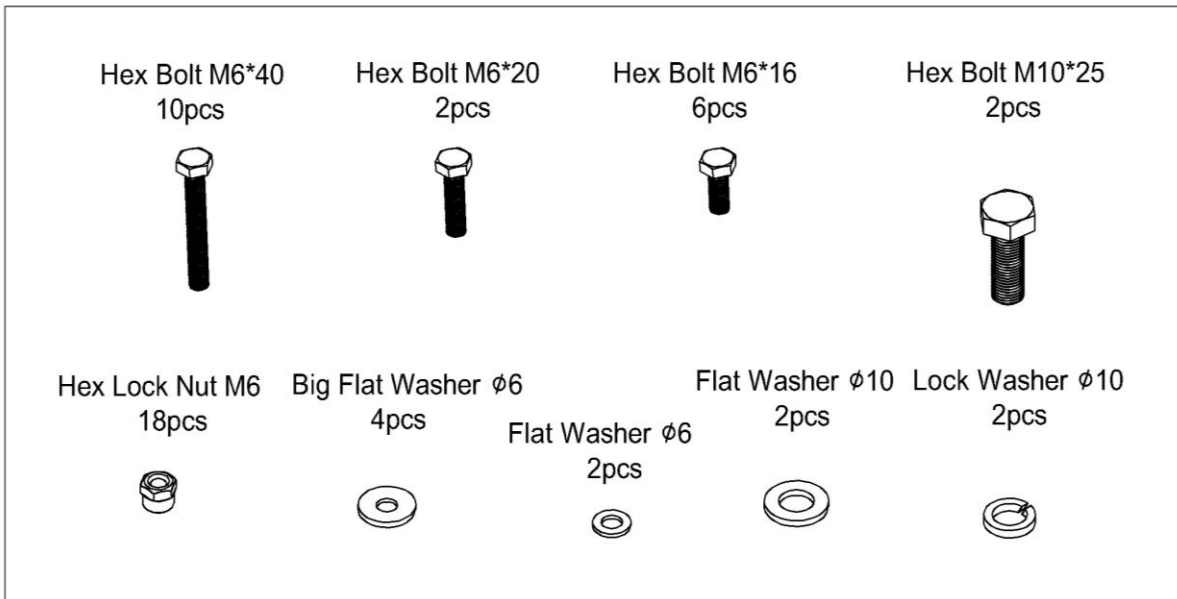
Repeat the process if necessary until you achieve your desired application rate.

Settings and guidelines furnished on this Rate Worksheet are intended as a guide only.

Variations in materials applied, ground roughness, speed of operator, may affect rate.

There is no warranty as to the rate of coverage derived from above guidelines.

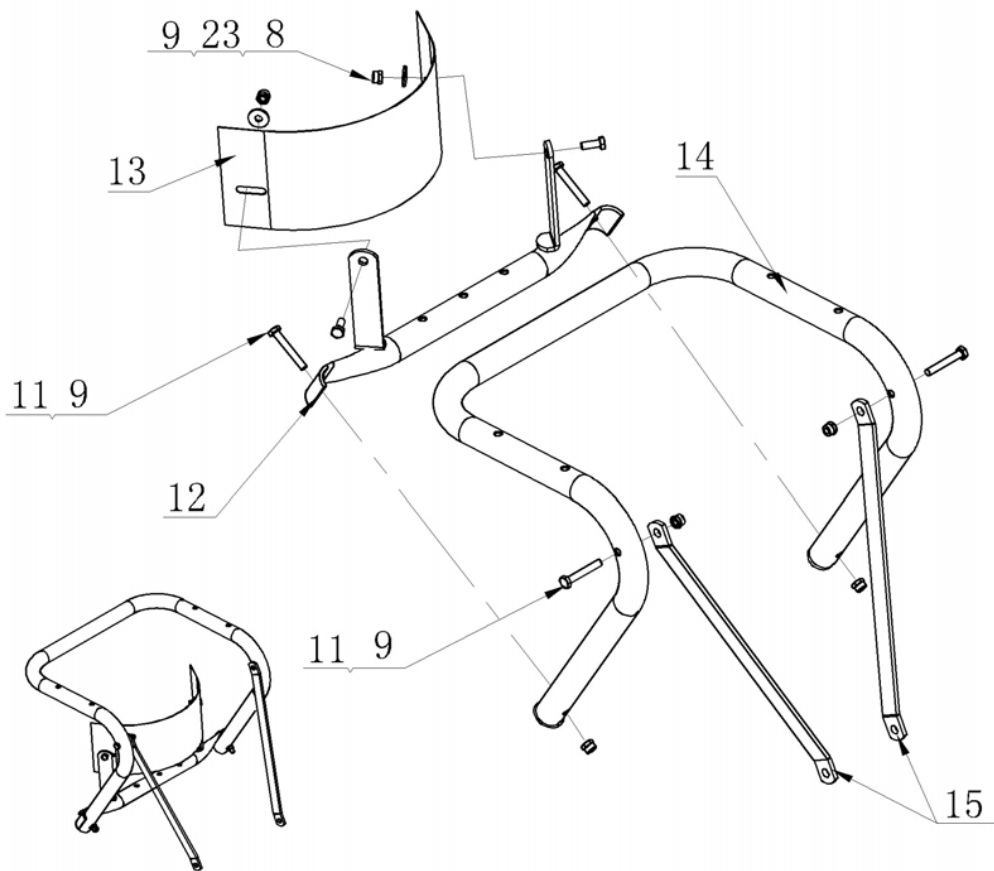
## Carton Contents



# Assembly Instructions

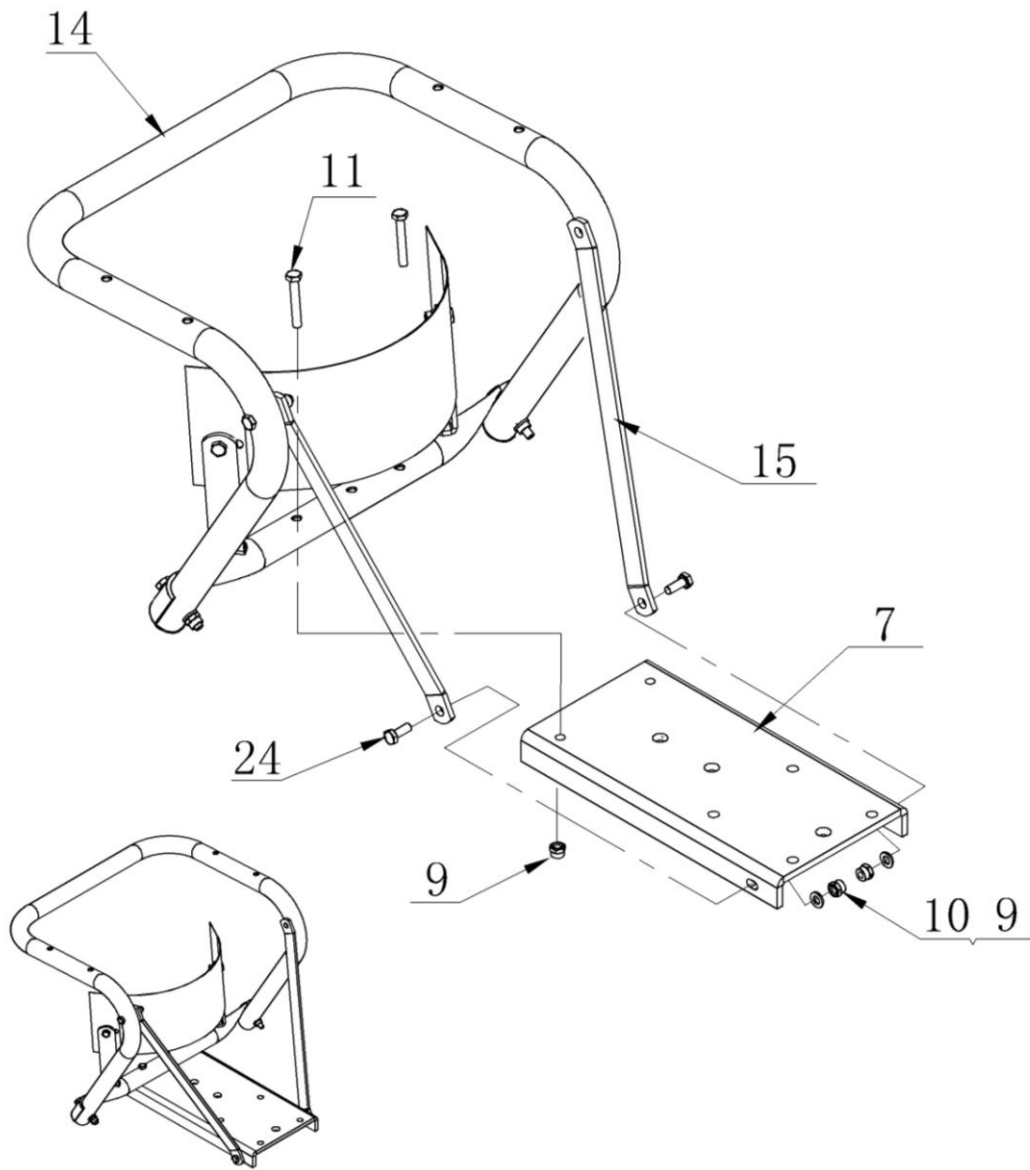
Step1:

1. Connect the deflector plate (#13) to the crossbeam tube (#12) using hex bolt M6x16 (#8), hex lock nut M6 (#9) and big flat washer Ø6 (#23). And then tighten them.
2. Connect the crossbeam tube (#12) , connecting rod (#15) and hopper assemble tube (#14) using hex bolt M6x40 (#11), hex lock nut M6 (#9).



Step2:

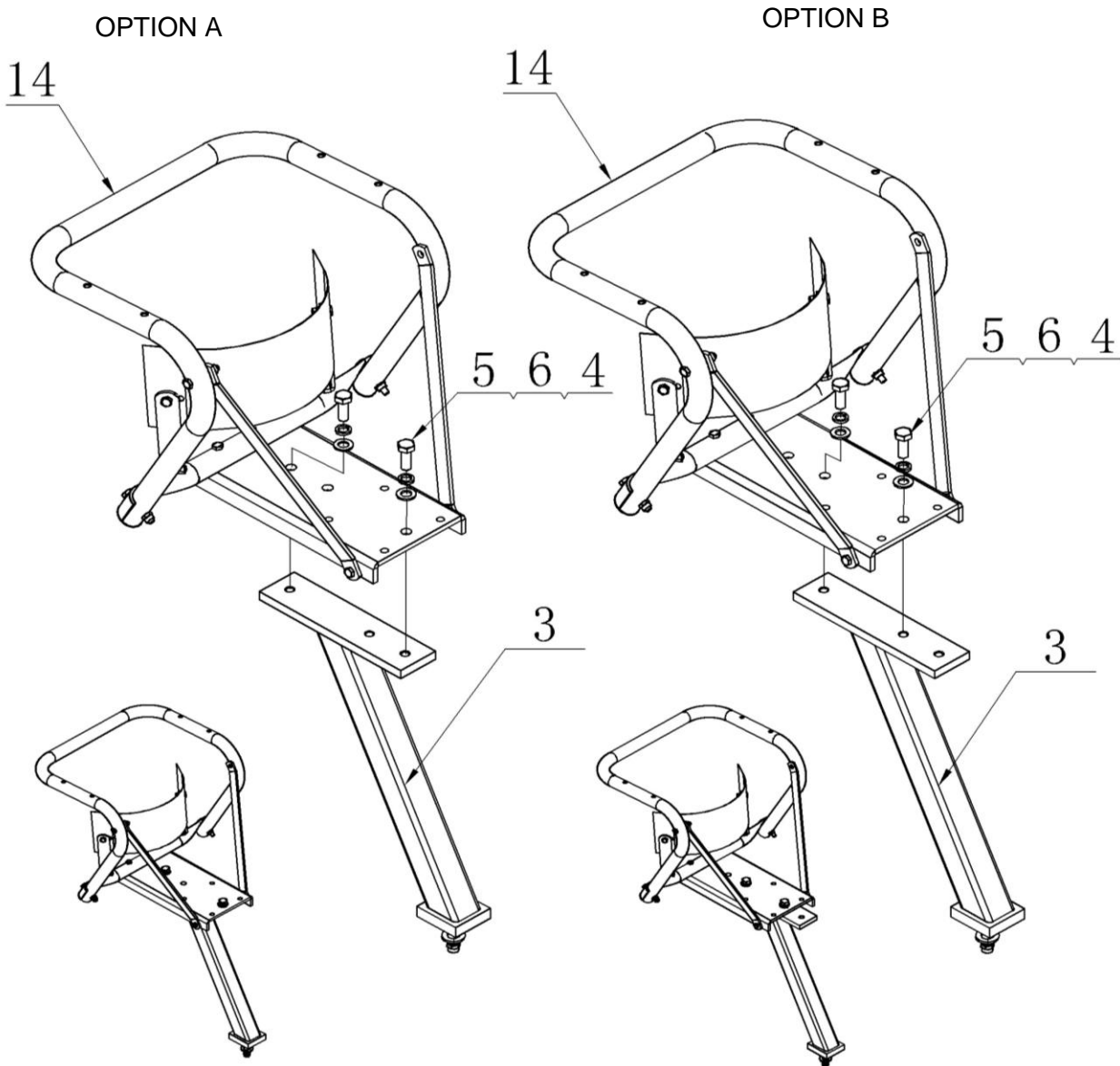
Connect the hopper assemble tube (#14) and spacer plate(#7) using hex bolt M6x40(#11) , hex bolt M6x20 (#24) ,hex lock nut M6 (#9) and flat washer Ø6 (#10). Fully tighten.



Step3:

Assemble the connecting tube assembly (#3) and hopper tube assembly (#14) using hex bolt M10x25 (#4), lock washer Ø10 (#6) and flat washer Ø10 (#5).

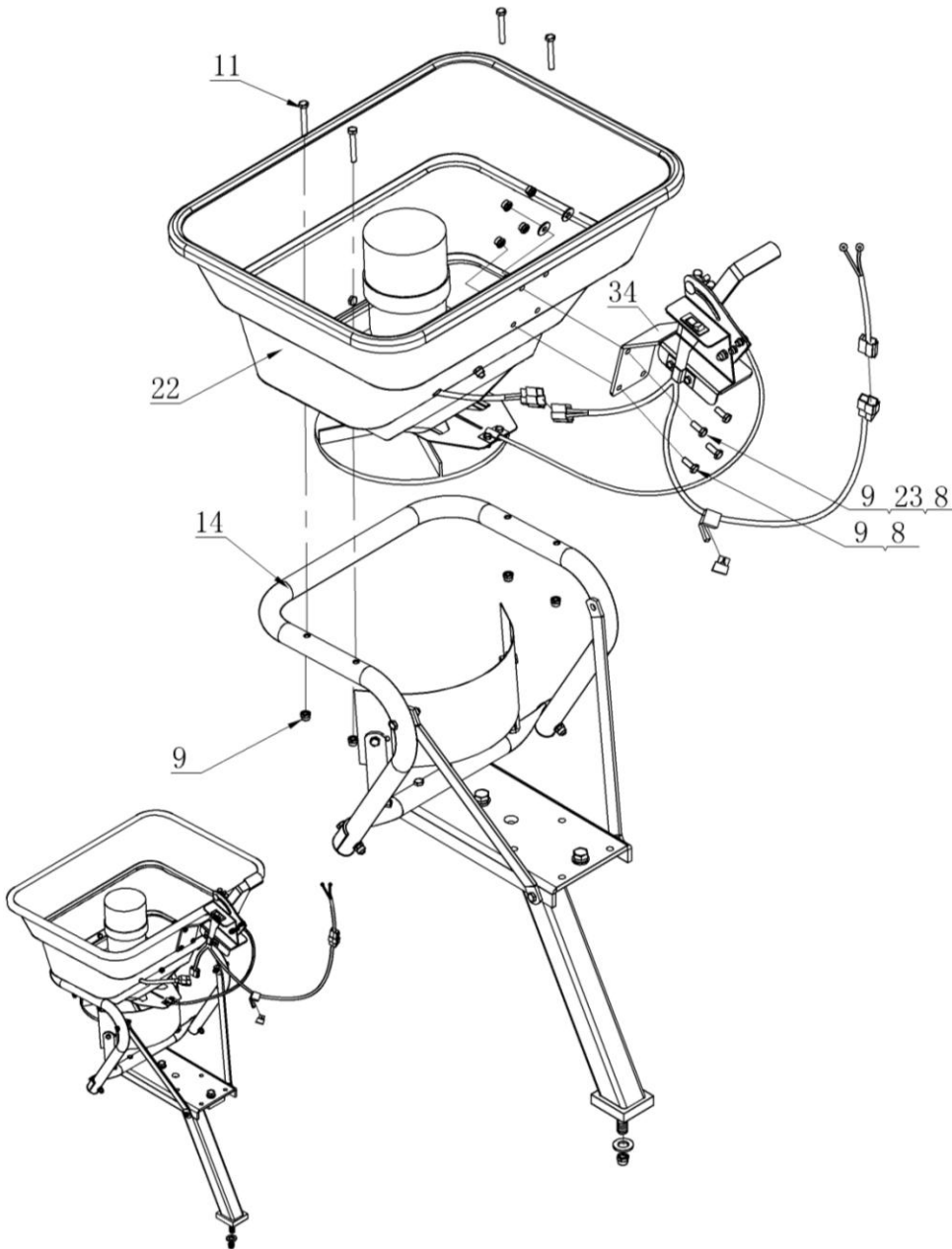
Depending on lawn tractor style, choose A or B for installation.





**Step4:**

1. Connect the hopper assembly (#22) and hopper assemble tube (#14) using hex bolt M6x40 (#11) and hex lock nut M6 (#9), then tighten.
2. Connect the gauge base plate(#34) and hopper assembly (#22) using hex bolt M6x16(#8), big flat washer Ø6 (#23) and hex lock nut M6 (#9).

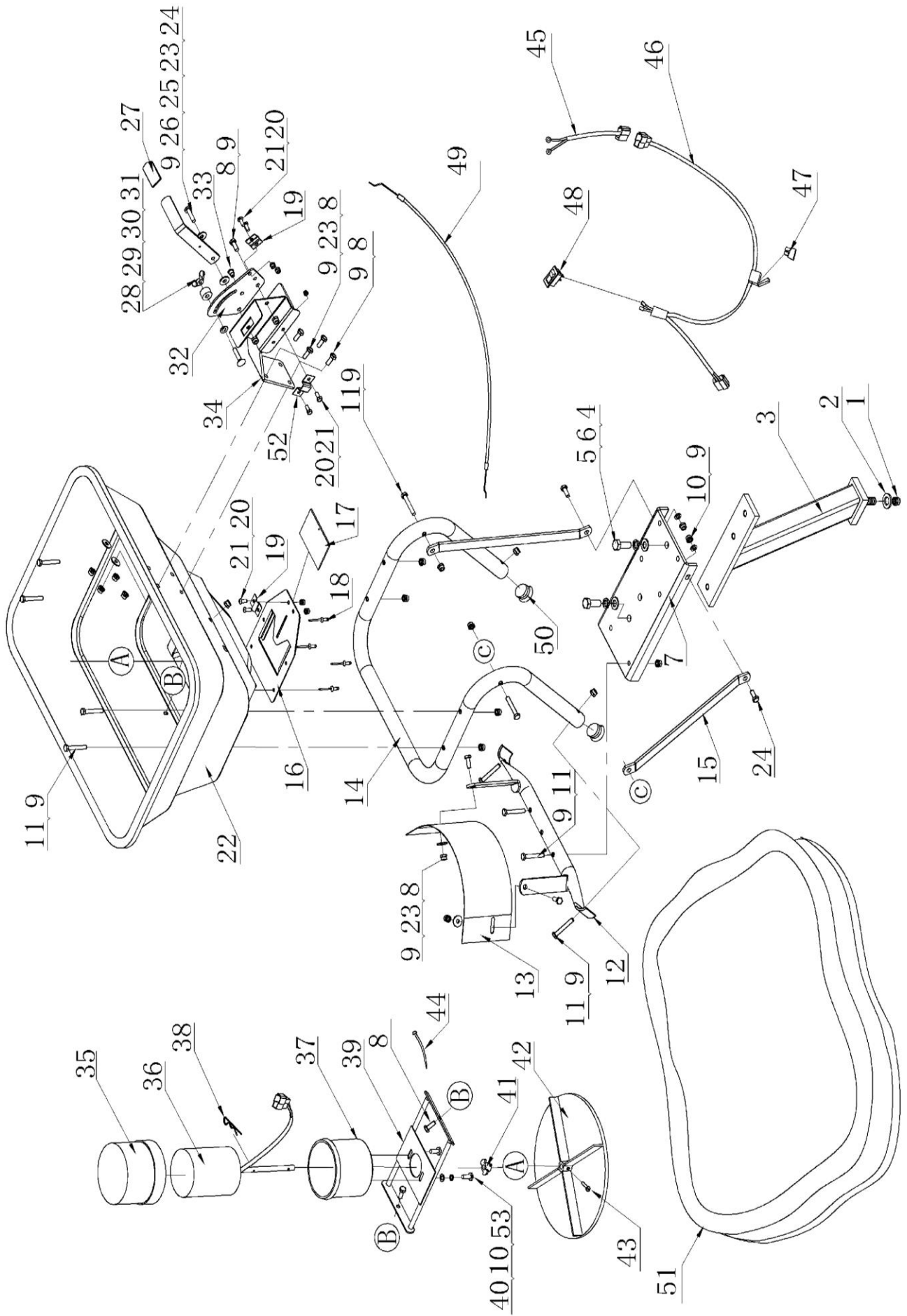


**Step 5:**

Tighten all the nuts and bolts. Then plug-in the cable, and connect the other end of the cable with the cable on the motor.

Be sure to use straps as needed to secure the spreader to the vehicle.

# Exploded Diagram



# Part List

REF#	DESCRIPTION	QTY	REF#	DESCRIPTION	QTY
1	Hex Lock Nut M12	1	28	Step Bolt M6*25	1
2	Big Flat Washer $\phi$ 12	1	29	Flat Washer $\phi$ 8	1
3	Connecting Tube Assembly	1	30	Spacer Bushing	1
4	Hex Bolt M10*25	2	31	Wing Nut	1
5	Flat Washer $\phi$ 10	2	32	Gauge & Level Assembly	1
6	Lock Washer $\phi$ 10	2	33	Stop Pin	1
7	Spacer Plate C	1	34	Gauge Base Plate	1
8	Hex Bolt M6*16	9	35	Motor Cap	1
9	Hex Lock Nut M6	22	36	Motor	1
10	Flat Washer $\phi$ 6	4	37	Motor Cover	1
11	Hex Bolt M6*40	10	38	R Pin	1
12	Crossbeam Tube Assembly	1	39	Motor Assemble Frame	1
13	Deflector Plate A	1	40	Screw M6*16	2
14	Hopper Assembly Tube	1	41	Center Bushing	1
15	Connecting Rod	2	42	Impeller	1
16	Fixed Adjustable Plate	1	43	screw M4*20	1
17	Active Adjustable Plate	1	44	Ribbon	1
18	Rivet $\phi$ 5*13	4	45	Cable Assembly A	1
19	Link Clamp Press Plate	2	46	Cable Assembly B	1
20	Screw M5*12	6	47	Safety Piece	1
21	Hex Lock Nut M5	6	48	Switch Box	1
22	Hopper Assembly	1	49	Adjustable Rod Assembly	1
23	Big Flat Washer $\phi$ 6	5	50	Tube End Cap	2
24	Hex Bolt M6*20	3	51	Rain Cover	1
25	Adjustable Handle	1	52	Link Clamp Press Plate A	1
26	Nylon Washer	1	53	Lock Washer $\phi$ 6	2
27	Handle Grip	1			

For replacement parts and technical questions, please call **1-218-943-6296**.

## **WARRANTY**

**One-year limited parts warranty**



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**Made in CHINA**