

# 175LB TOW-BEHIND SPREADER

## ASSEMBLY AND OPERATION INSTRUCTION MANUAL



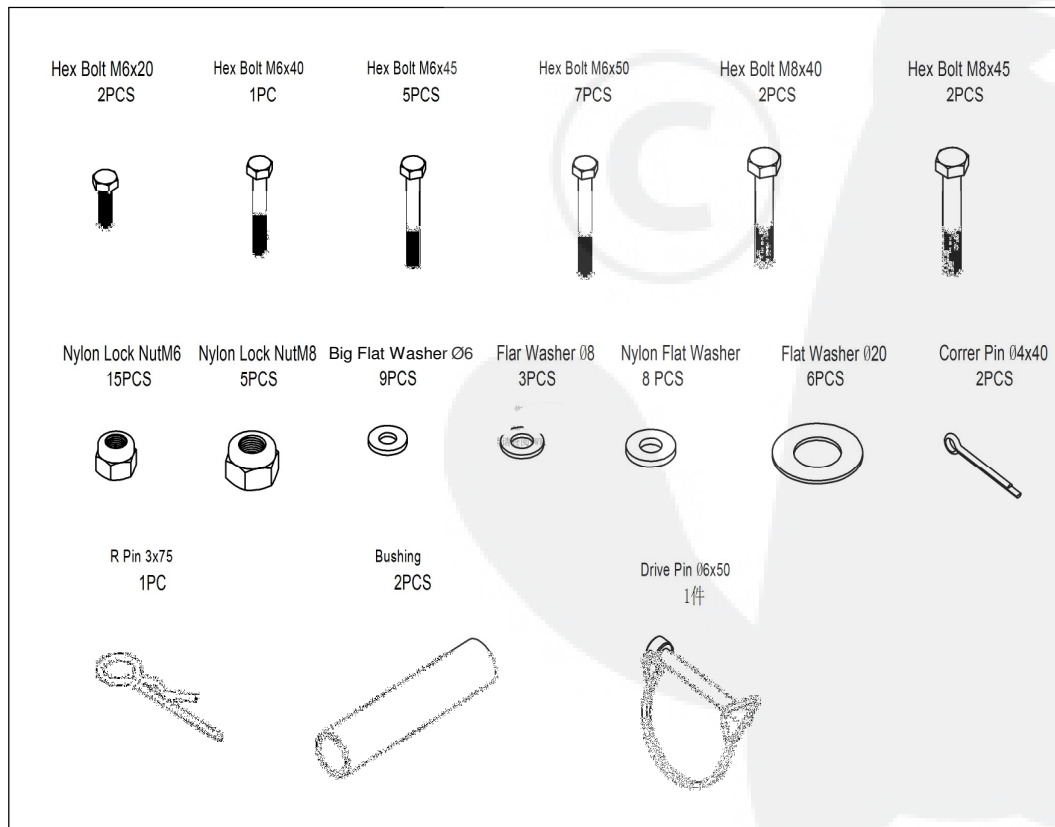
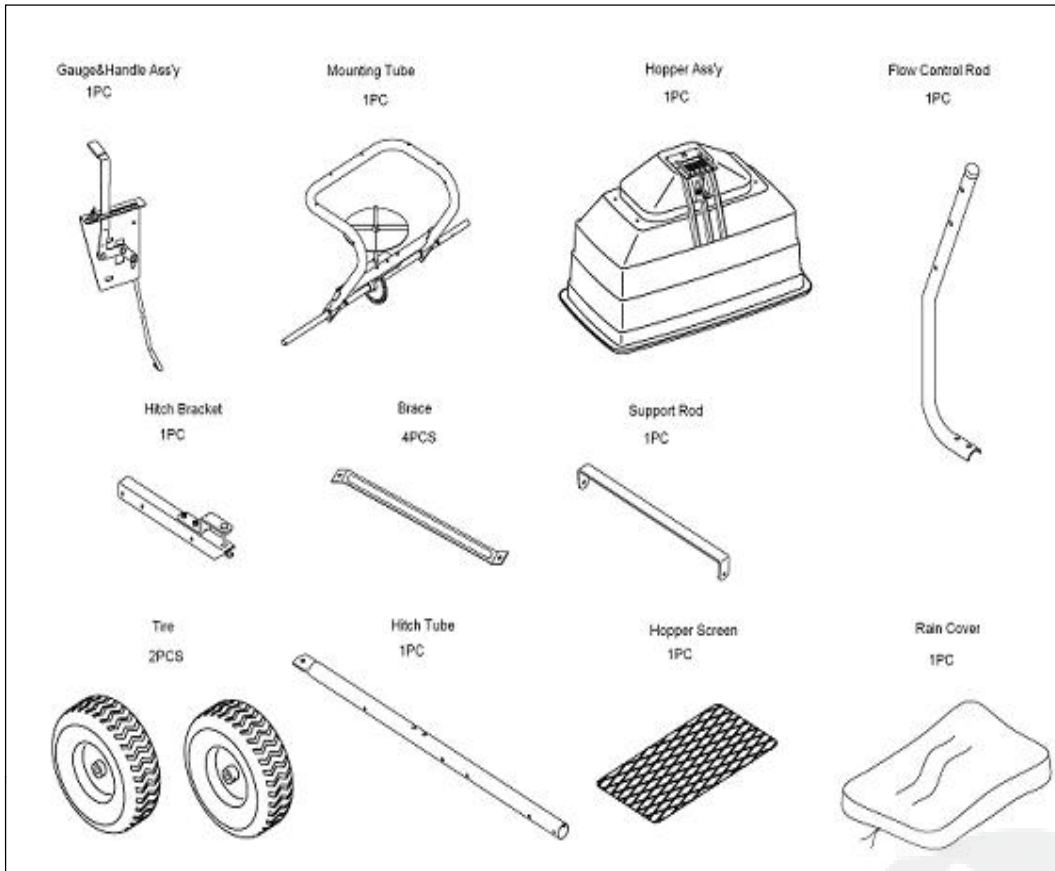
### **HELPFUL HINTS:**

READ THE DIRECTIONS BEFORE ASSEMBLY

**WHEN ALL ELSE FAILS, READ THE DIRECTIONS AGAIN**

- If your spreader does not spread evenly, be sure the FRONT on 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. Fertilizer stuck on the impeller blades will cause uneven spreading.
- Your spreader is designed to be pushed at three miles per hour, which is a brisk walking speed. Slower or faster speeds will change the spread patterns. Wet fertilizer 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.
- Gears are permanently lubricated at the factory. Do not open the gear box or dirt may enter.

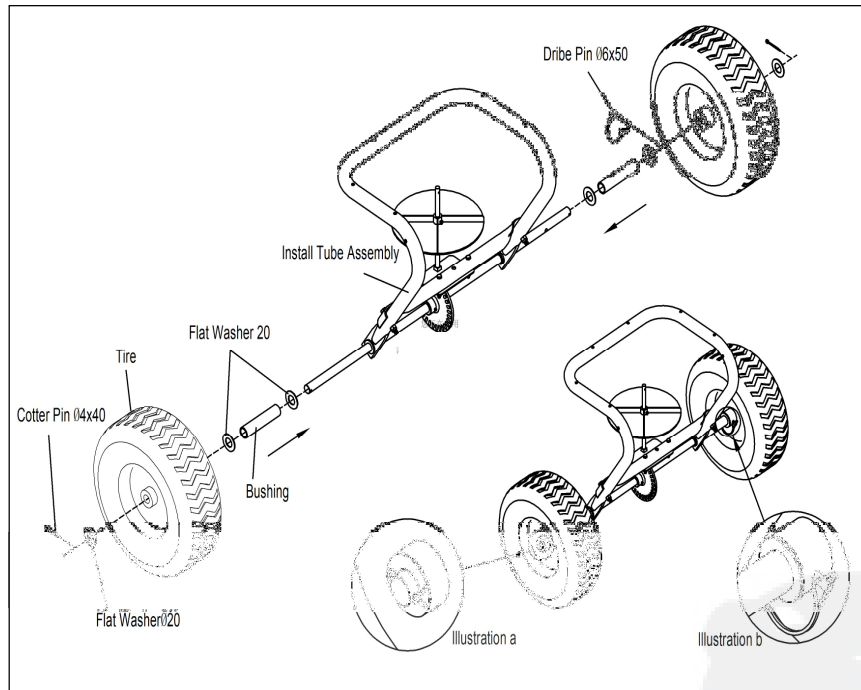
**1. Remove and identify loose parts from carton and bag.**



# ASSEMBLY INSTRUCTIONS

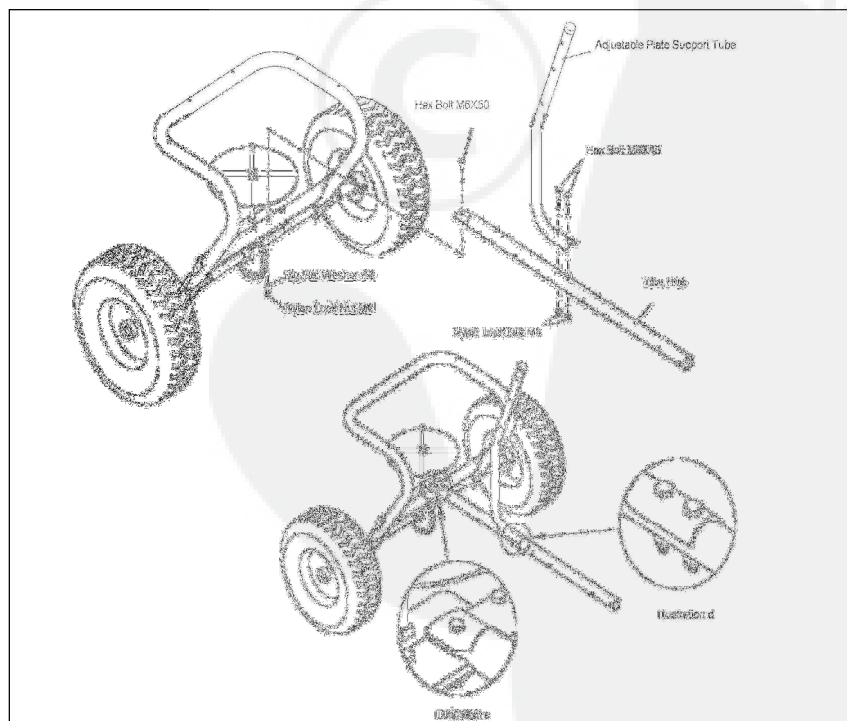
## STEP 1:

1. Assemble the first flat washer  $\varnothing 20$ , the support spacer, the second flat washer  $\varnothing 20$ , and the third flat washer  $\varnothing 20$  onto the end of the axle of Install tube assembly in turn. First insert the  $\varnothing 4 \times 40$  cotter pin into the small hole on the axle and then bend to fix it. (see illustration a).
2. Repeat at the other side of axle.
3. On one end of the axle that has the hole of  $\varnothing 7$ , put the pin into the hole on the inboard of wheel. (see illustration b)



## STEP 2:

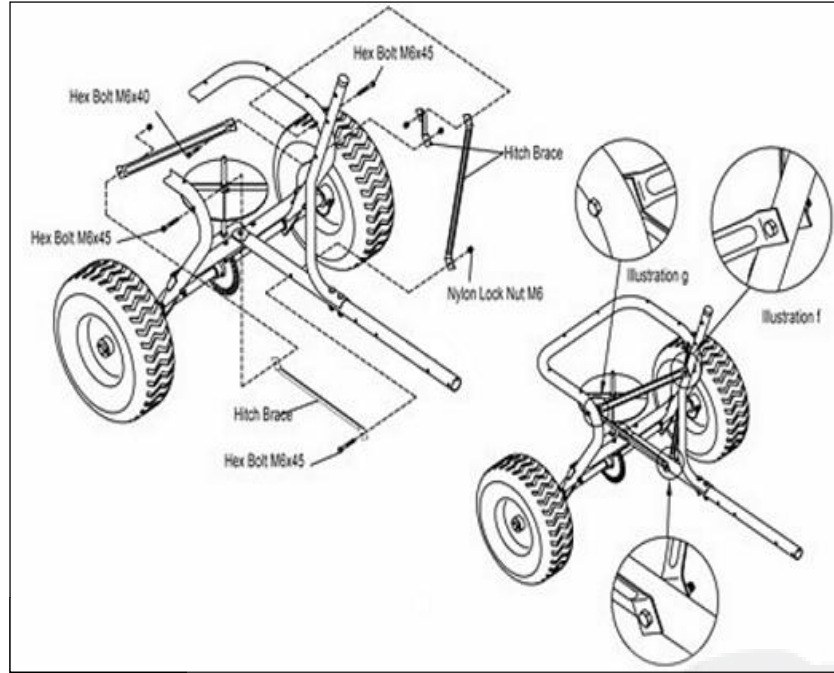
1. Insert Hex Bolt M6x50 after aligning the hole at the flat end of Hitch Tube (stay on top) with the one at the middle of Crossover Tube. Connect it by using big Flat Washer  $\varnothing 6$  and lock Nut M6 and don't screw it up moderately. (see illustration c)
2. Install the Adjustable Plate Support Tube on the Hitch Tube using Hex Bolt M8x50 and Lock Nut M8 (see illustration d)



**Step3**

1. Connect two Hitch Braces (each at one side) and the hole at the back of Hitch Tube by using Bolt M6x50 and Nylon Lock Nut M6 ,don't screw them up temporarily.(see illustration e)
- 2.Connect two Hitch Braces (each at one side) and the hole at the middle of Adjust Plate Support Tube by using Bolt M6x50 and Nylon Lock Nut M6,don't screw them up temporarily. (see illustration f)
3. Connect another end of two Braces at each side of Hitch Tube with the hole in horizontal direction at the round part of Install Tube Assembly by using Bolt M6x50 and Nylon Lock Nut M6. (see illustration g)

4.Adjust the position of Hitch Tube,Across Rod and Brace to the properly location,then tighten all nuts(in illustration c-g) up.

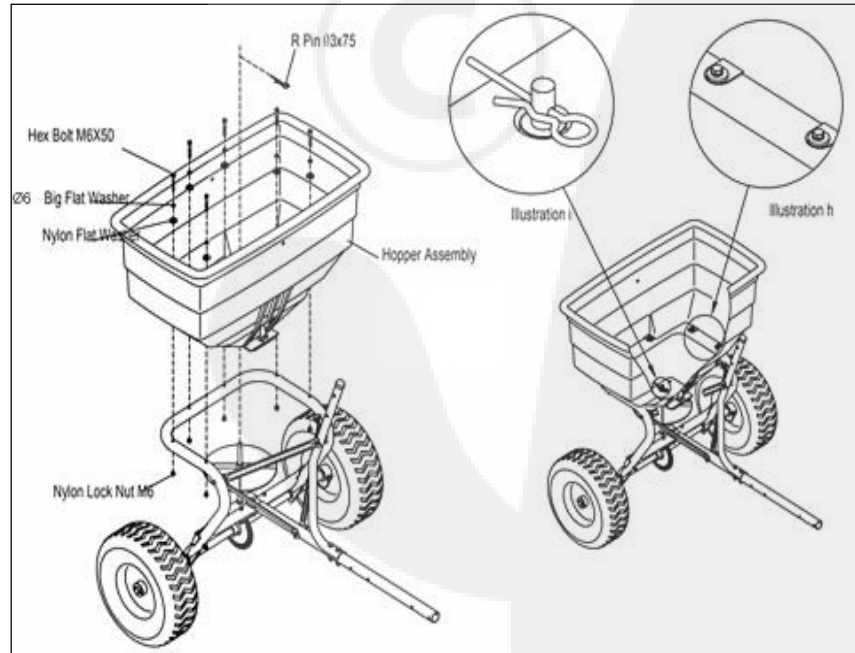


**Step 4**

1. Insert the head of Axle on Frame Tube Assembly into the Swivel Bushing at the bottom of Hopper Assembly
2. Aligning all the six holes around Hopper Assembly and the six holes on the Frame by using six Bolt M6x50 with Big Flat Washer  $\varnothing 6$  and Nylon Flat Washer on the top and six Nylon Lock Nut M6. Adjust parts of the Hoper Assembly to make the axle to be able to twirl freely and then screw all the Nylon Nut M6.

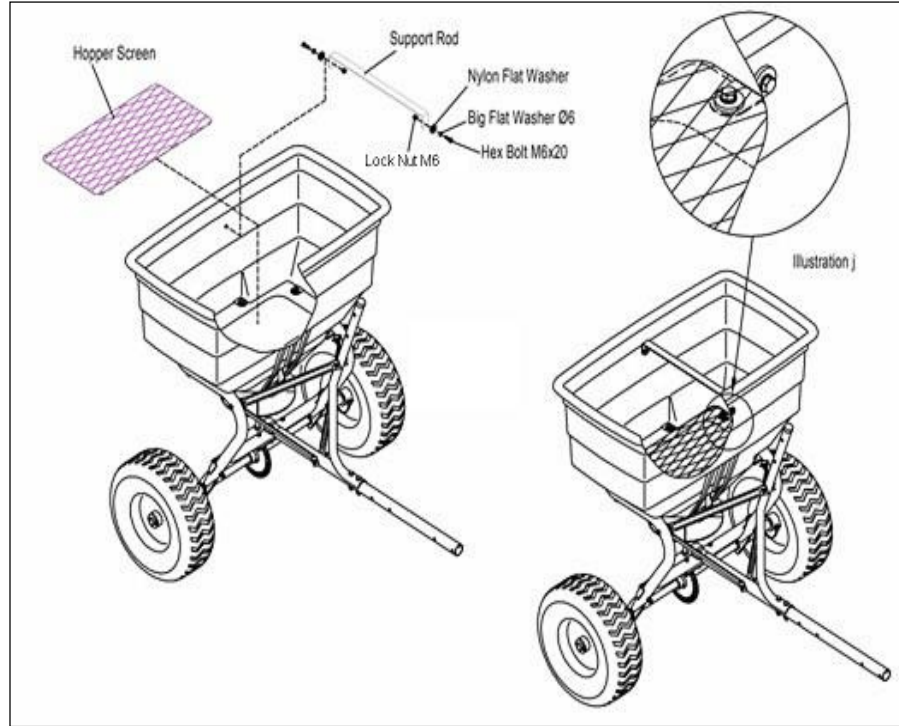
(see illustration h)

- 3.Insert the R Pin  $\varnothing 3 \times 75$  into the hole on top of Swivel Axle. (see illustration i)



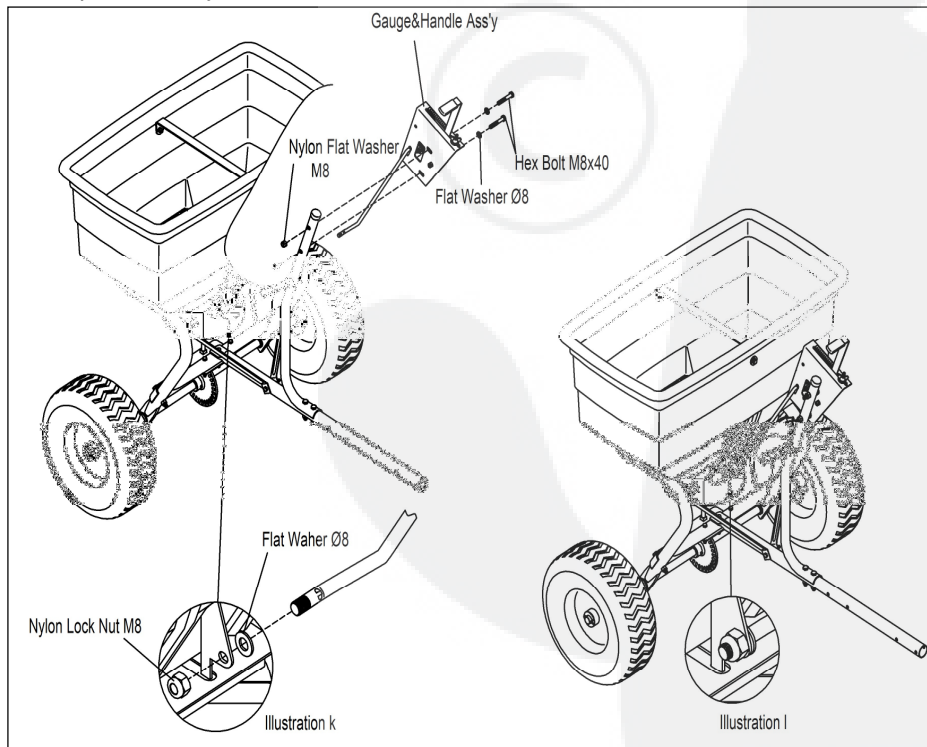
**Step 5**

1. Put the Hopper Screen into the end of Hopper Assembly (see illustration j)
2. Put the support rod into the hole on the hopper using Hex Bolts M6x20, Big Flat Washers Ø6 and nylon Lock nuts.



**Step 6**

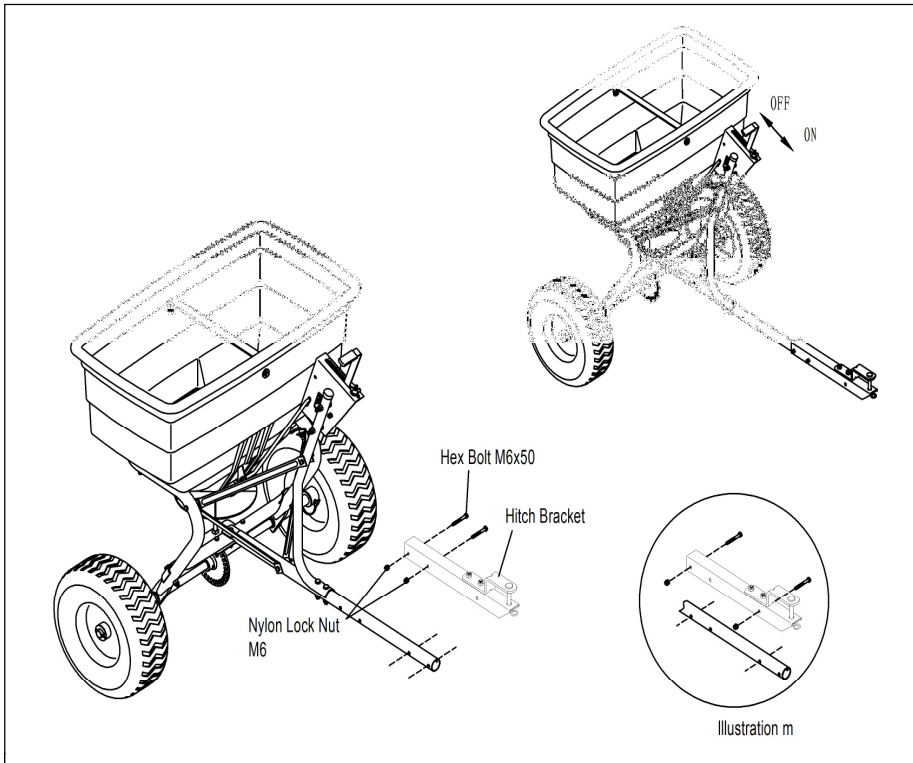
1. Connect Adjust Handle Assembly and Support Bar by using two Bolts M8x40 and two Nylon Lock Nuts M8 and don't screw them up moderately.
2. Install one Flat Washer Ø8 at the lower head of Adjust Rod and then insert into the hole of Rod Base. Connect them by using a Nylon Lock Nut M8. (see illustration k and l)
3. Adjust the Adjust Handle back and forth to make the Active Adjustable Plate to be able to fully open to close. Then screw up the two Nylon Lock Nuts M8 that used to fix the whole set of assembly.



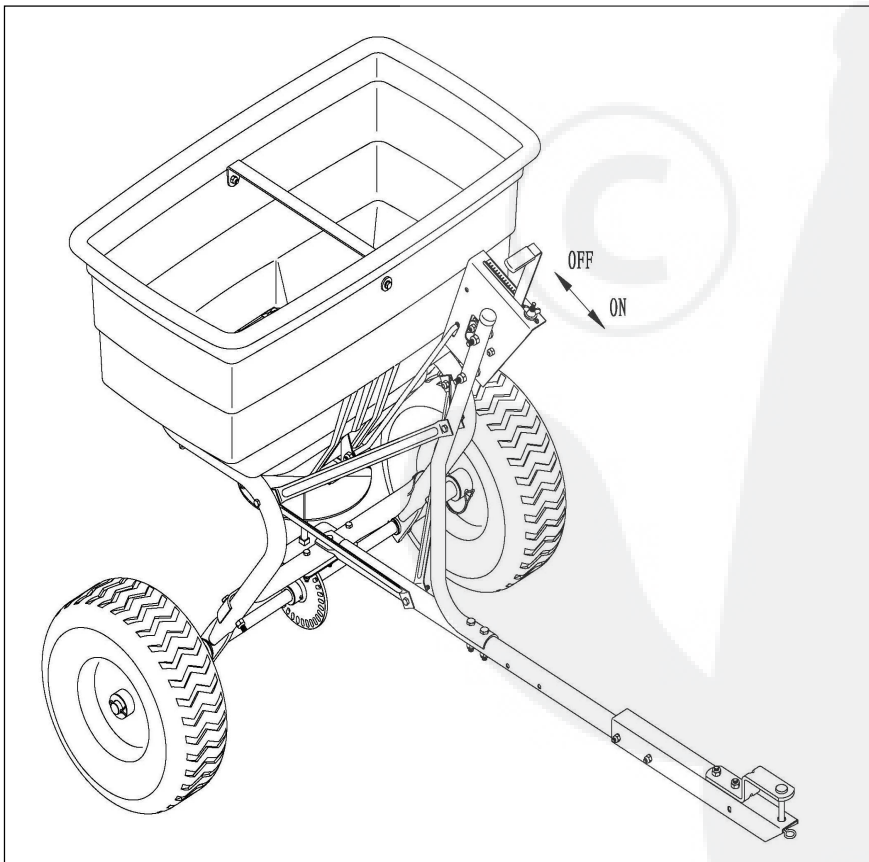


**Step 7**

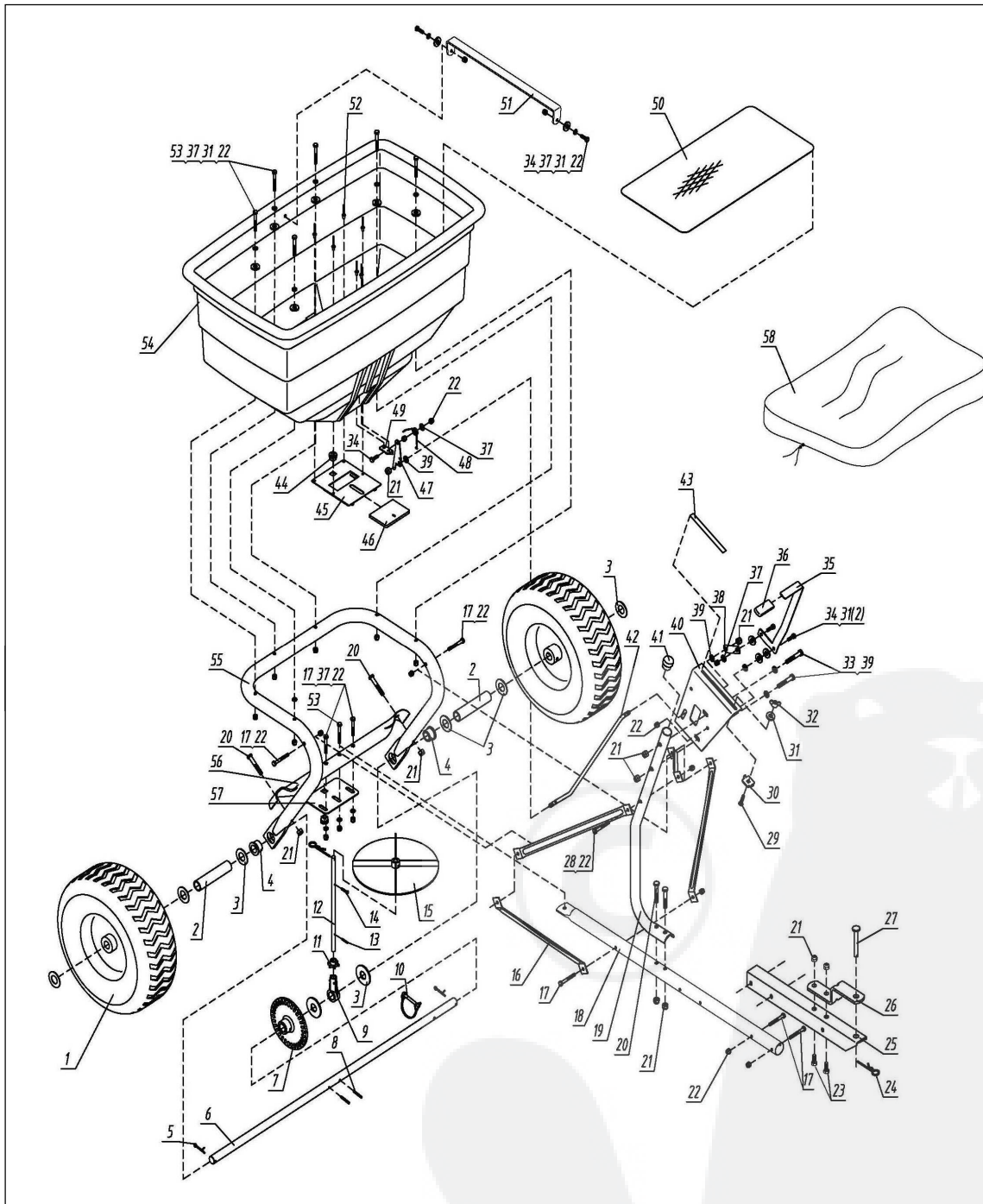
1. Connect the Hitch Break and the head of Hitch Tube by using two Hex Bolts M6x50 and Nylon Lock Nuts M6. Connect them according to the illustration m would be ok as well. Through this way, the length of Hitch Tube is changed.



**Step8**



# PARTS DRAWING



## PARTS LIST

Ref#	Description	QTY	Ref#	Description	QTY
1	Tire	2	30	Fixing Plate for Wing Nut	1
2	Spacer	2	31	Nylon Flat Washer	12
3	Flat WasherØ20	8	32	Wing Nut M6	1
4	Bushing	2	33	Hex Bolt M8x40	2
5	Cotter Pin Ø4x40	2	34	Hex Bolt M6x20	5
6	Swivel Axle	1	35	Adjust Handle	1
7	Gear (Driver)	1	36	Handle Crip	1
8	Spring Pin Ø4x35	2	37	Big Flat WasherØ6	14
9	Shaft Support Cap	1	38	Bracket	1
10	Drive PinØ6x50	1	39	Flat WahserØ8	4
11	Small Gear	1	40	Bracket,Flow Control Mount	1
12	Turn Axle	1	41	Plastic Cap	1
13	Spring Pin Ø3x16	1	42	Adjust Rod	1
14	Screw M4x20	1	43	Gauge Label	1
15	Impeller	1	44	Bearing	2
16	Hitch Brace	4	45	Fixing Adjustable Plate	1
17	Hex Bolt M6x45	7	46	Active Adjustable Plate	1
18	Hitch Tube	1	47	Fixed Plate for Connecting Rod	1
19	Flow Control Rod	1	48	Spring	1
20	Hex Bolt M8x45	4	49	Base for Spring	1
21	Nylon Lock Nut M8	10	50	Hopper Screen	1
22	Nylon Lock Nut M6	21	51	Support Rod	1
23	Hex Bolt M8x20	2	52	RivetØ5x12	6
24	R Pin Ø3X75	4	53	Hex Bolt M6x50	7
25	Hitch Bracket	1	54	Hopper Assembly	1
26	Connect Plate	1	55	Mounting Tube	1
27	Peg	1	56	Across Rod	1
28	Hex Bolt M6x40	1	57	Shaft Support	1
29	Carriage Bolt M6x20	1	58	Rain Cover	1