

Sweeper

Product ID. QKU57



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support@garvee.com



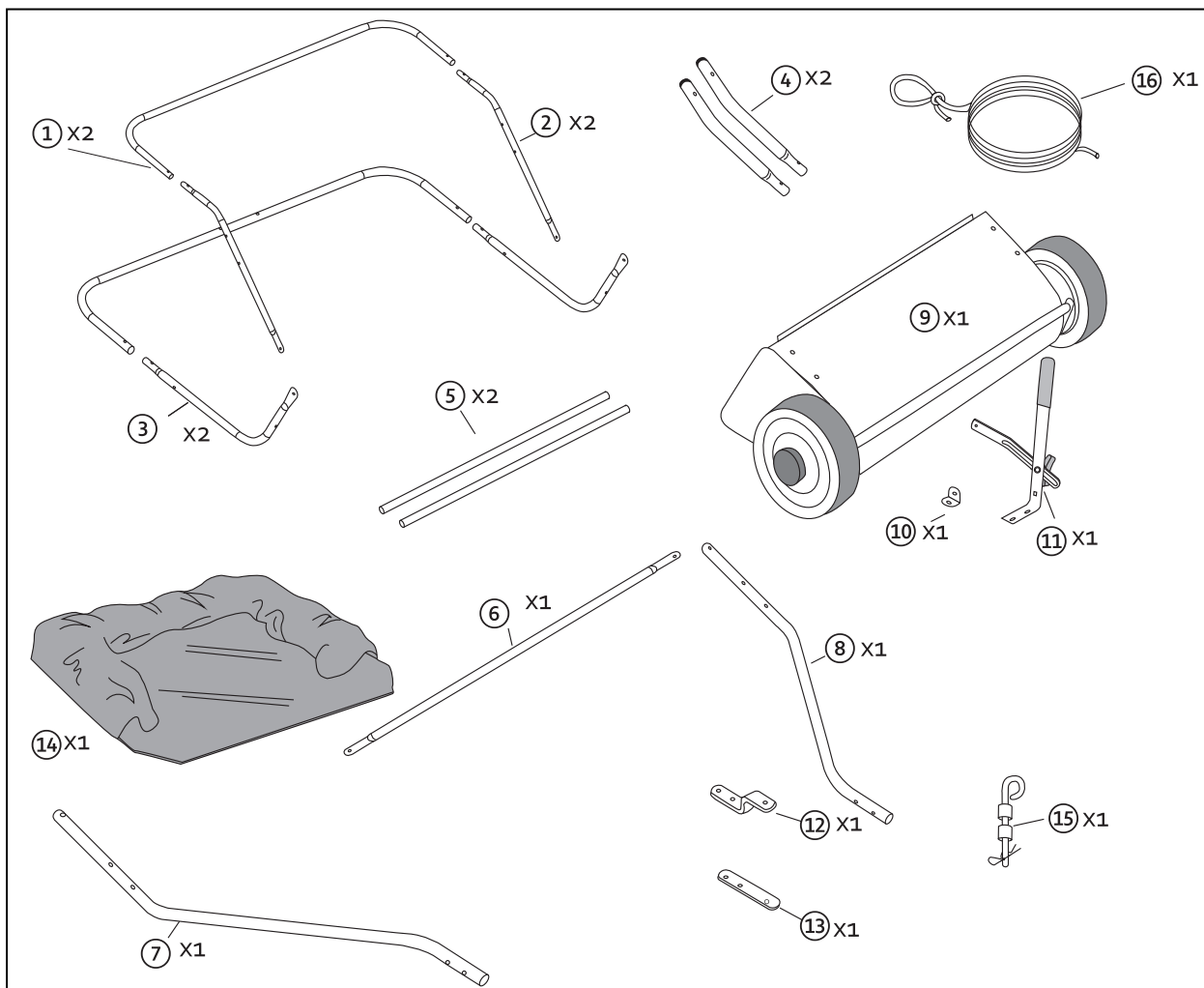
ASSEMBLY INSTRUCTIONS

TOW-BEHIND LAWN SWEEPER



ASSEMBLY INSTRUCTIONS

ASSEMBLY & OPERATING INSTRUCTIONS



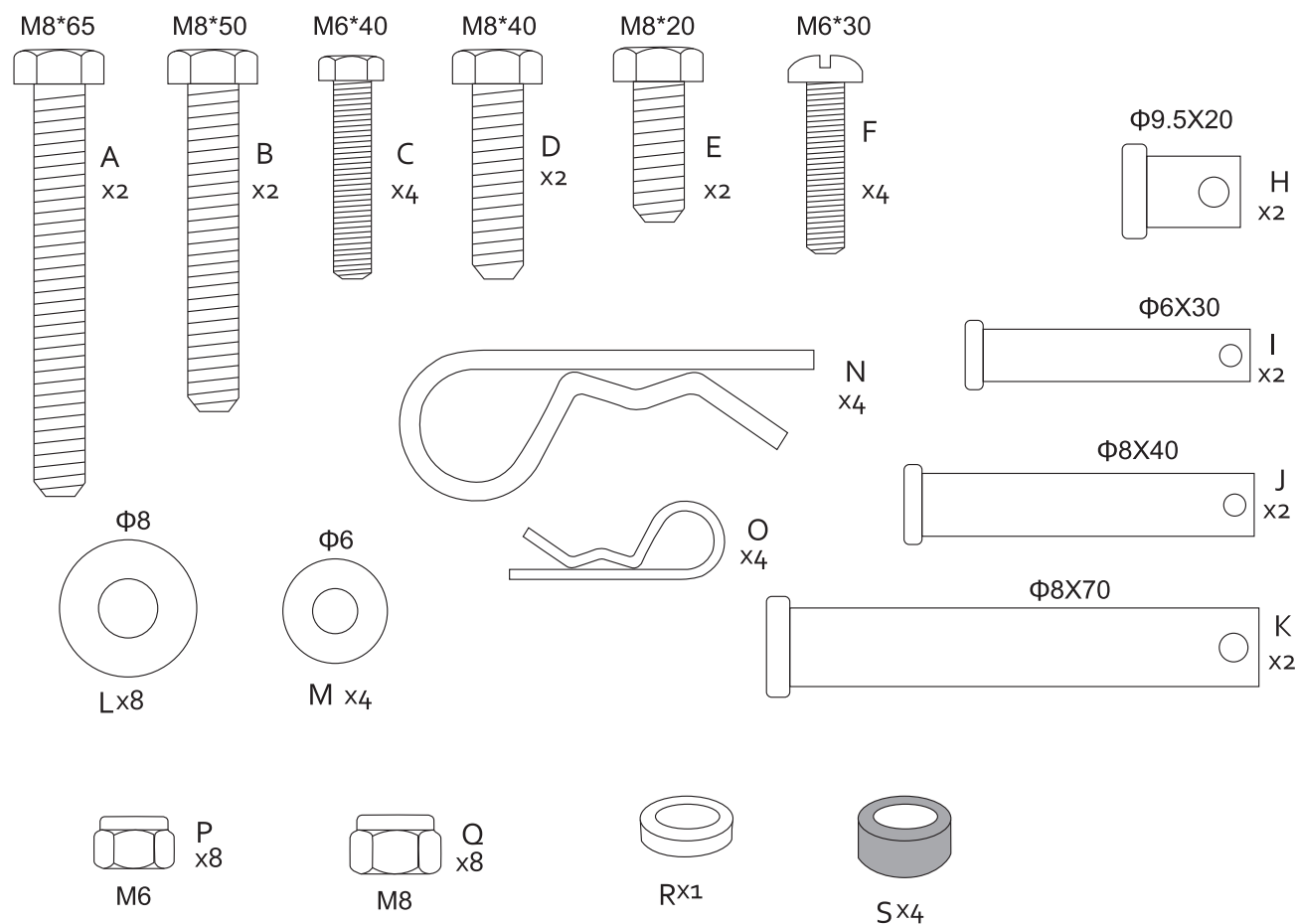
Carton Contents (lawn sweeper and fixings)

1. Rear Hooper Tube (2)
2. Upper Hopper Side Tube (2)
3. Lower Hopper Side Tube (2)
4. Bag Arm Tube (2)
5. Hooper Support Rod (2)
6. Bag Frame Strap
7. Hitch Tube, Left Side
8. Hitch Tube, Right Side
9. Sweeper Housing Assembly
10. Angle Bracket

11. Handle Assembly
12. Hitch Bracket
13. Hitch Bracket (Straight)
14. Hopper Bag
15. Hitch Pin & Spacer & R Pin Ø3
16. Rope

ASSEMBLY INSTRUCTIONS

Parts Details



REF.	Description	Qty.	REF.	Description	Qty.
A	Hex Bolt M8x65	2	L	Big Flat Washer Ø8	8
B	Hex Bolt M8x50	2	M	Washer Ø6	4
C	Hex Bolt M6x40	4	N	R Pin Ø3	4
D	Hex Bolt M8x40	2	O	R Pin Ø2	4
E	Hex Bolt M8x20	2	P	Nylon Lock Nut M6	8
F	Hex Bolt M6x30	4	Q	Nylon Lock Nut M8	8
H	Clevis Pin Ø9.5x20	2	R	Adjustable Pole Spacer	1
I	Clevis Pin Ø6x30	2	S	Hitch Spacer Ø25x23	4
J	Clevis Pin Ø8x40	2			
K	Clevis Pin Ø8x70	2			

SAFETY RULES

Remember, any power equipment can cause injury if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times when using power equipment.

1. Read the vehicle and sweeper owners manuals and know how to operate your vehicle and sweeper before using this sweeper attachment. Always instruct other users before they operate the sweeper.
2. Do not permit children to operate sweeper.
3. Do not permit anyone to ride on sweeper.
4. Never attach the hopper rope to any part of your body or clothing! Never hold onto the rope while towing the sweeper! Attach the rope to the towing vehicle to keep it away from wheels and rotating parts.
5. Operate the sweeper at reduced speed on rough terrain, near ditches and on hillsides to prevent loss of control.
6. Vehicle braking and stability may be affected with the attachment of this sweeper. Do not fill sweeper to maximum capacity without checking the capability of the towing vehicle to safely pull and stop with the sweeper attached. Stay off of steep slopes.
7. Stop and inspect vehicle and sweeper for damage after striking an object. Repair any damage before continuing operation.
8. Keep sweeper away from fire.
9. Before storing the sweeper, always empty the hopper bag to avoid spontaneous combustion.
10. Follow maintenance and lubrication instructions as outlined in the maintenance section of this manual.



Look for this symbol to point out important safety precautions. It means—Attention!! Become alert!! Your safety is involved.

ASSEMBLY INSTRUCTIONS

ASSEMBLY

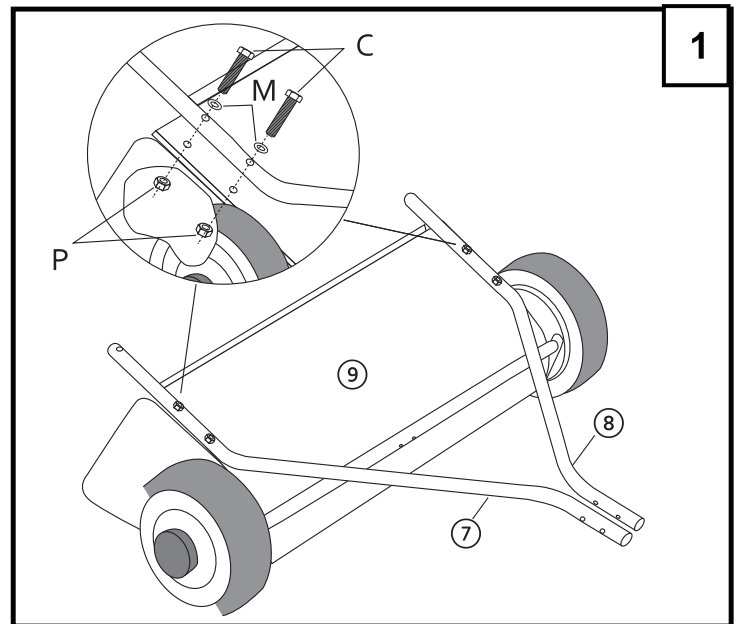
All loose parts are shown on page 1. Fasteners in the parts bag are shown on page 2.

Remove the hardware pack and all loose parts from the carton and verify that all the parts and fasteners shown on pages 1 and 2 are included.

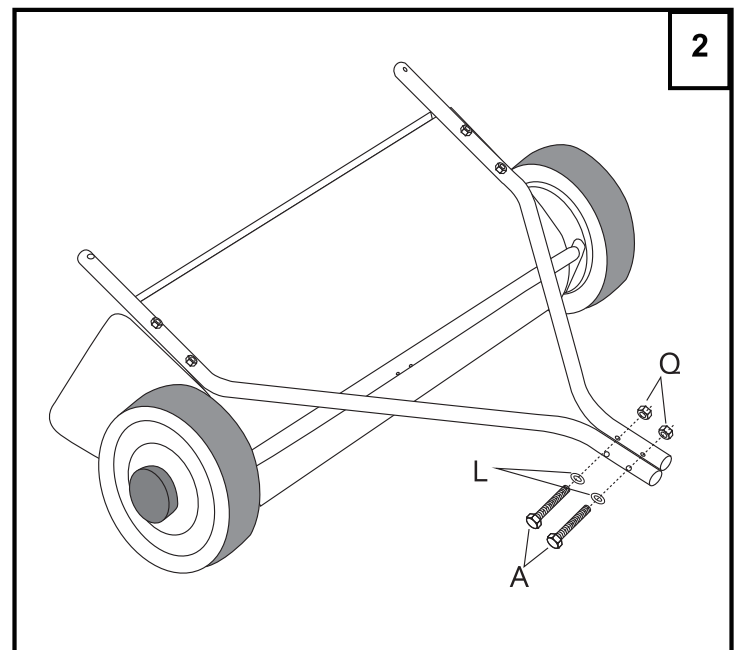
ASSEMBLY OF SWEEPER

Note: Right hand (R.H.) and left hand (L.H.) are determined from the operator's position while seated on the tractor.

1. (Figure 1) Assemble the R.H. hitch tube (7) to the sweeper housing (9) using two M6 x 40 hex bolts (C), Two Washer Ø6 (M) and Two M6 nylon lock nuts (P). Do not tighten yet. Repeat for the L.H. hitch tube.



2. (Figure 2) Fasten the hitch tubes left side (7) and hitch tubes right side (8) together using two M8 x 65 hex bolts (A), Two Big Flat Washer Ø8 (L) and Two M8 nylon lock nuts (Q). Do not tighten yet.



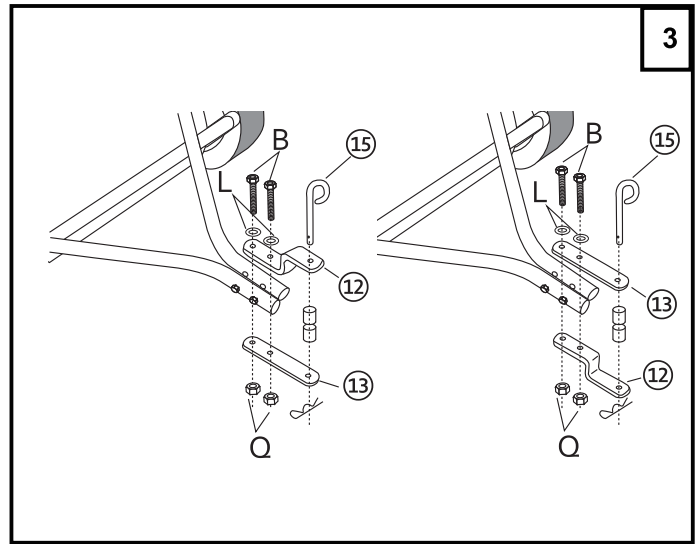
ASSEMBLY INSTRUCTIONS

3.(Figure 3)

Assemble the hitch brackets(⑫),hitch brackets(Straight)(⑬) to the hitch tubes using two M8 x 50 hex bolts (B) 、 two Big Flat Washer Ø8 (L) and two M8 nylon lock nuts (Q). The bolts should straddle the front hitch tube bolt. Do not tighten yet.

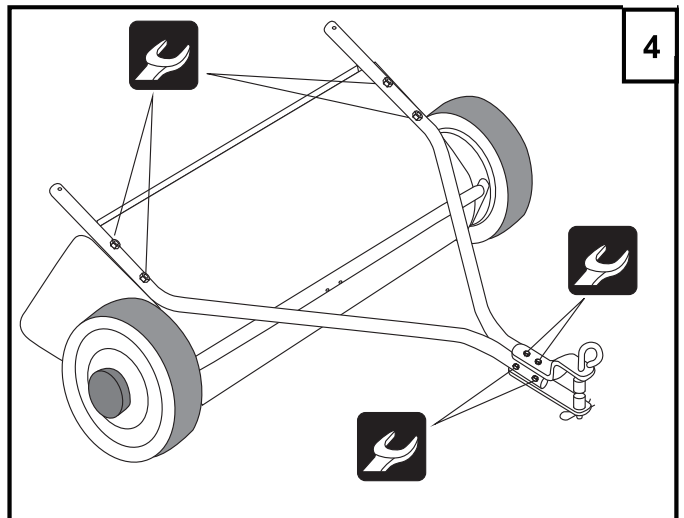
Take Apart the hitch pin (⑮), two spacers and the Ø3 R pin and assemble to the hitch brackets according to the diagram.

Hitch brackets(⑫) 、 hitch brackets(Straight)(⑬) up and down placement order sequence unrestricted .



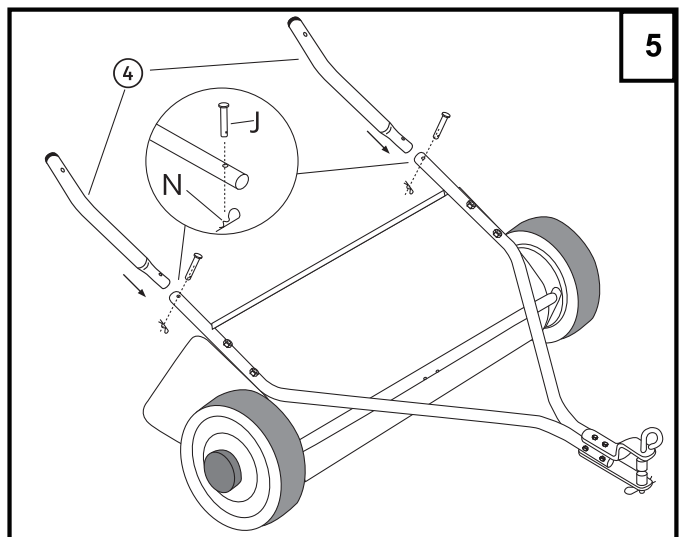
4.(Figure 4)

Tighten the hitch brackets and two M8 x 50 hex bolts .



5.(Figure 5)

Slide the ends of the bag arm tubes (④)into the ends of the sweeper' s hitch tubes and each side secure with two Ø8×40 clevis pins (J) and Ø3 R pins (N).

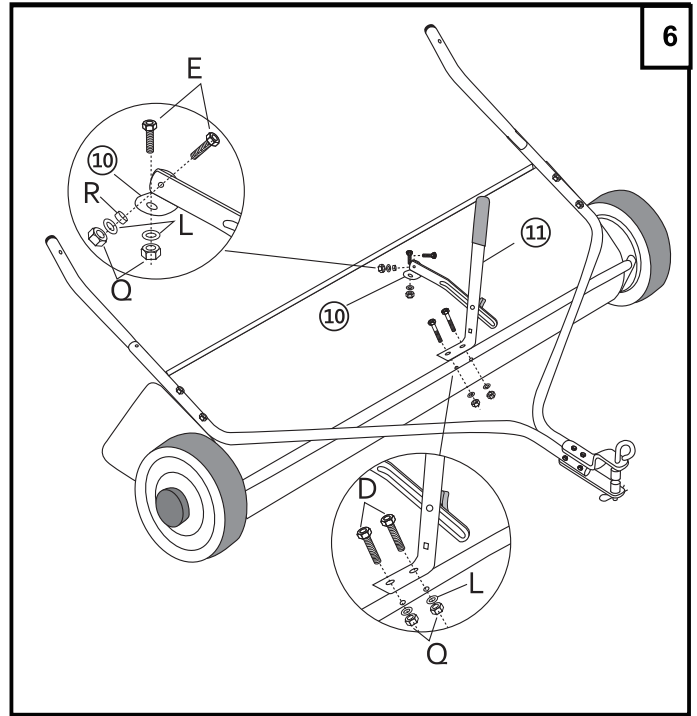


ASSEMBLY INSTRUCTIONS

6.(Figure 6)

Assemble the handle assembly(11) to the height adjustment tube as shown in figure six. Use two M8×40 hex bolts (D) 、 big flat washer Ø8(L)and M8 Nylon Lock nut (Q). Do not tighten yet.

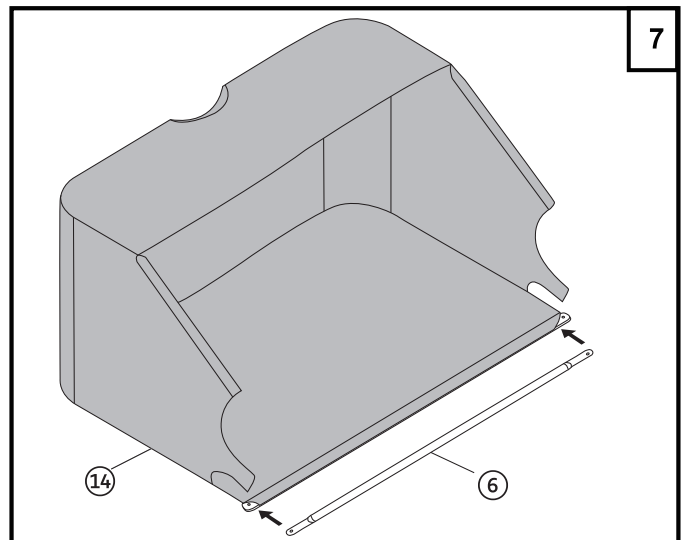
Assemble the angle bracket (10)onto the height adjustment handle,Use one M8×20 hex bolts (E) 、 adjustable polo spacer(R)、 big flat washer Ø8(L)and M8 Nylon Lock nut (Q) , Assemble another side of angle bracket onto the sweeper housing ,use one M8×20 hex bolts (E) 、 big flat washer Ø8(L)and M8 Nylon Lock nut (Q) ,Tighten.



ASSEMBLY OF HOPPER BAG

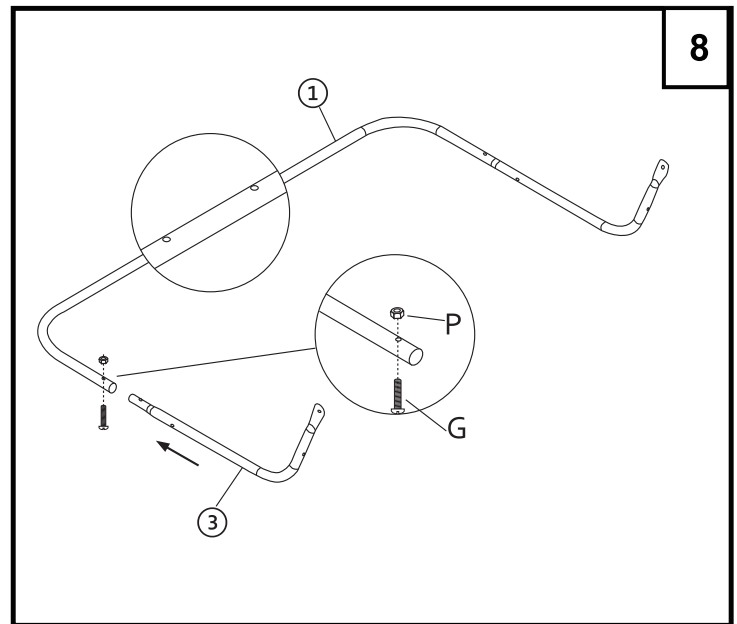
7.(Figure 7)

Insert the bag frame strap (6)into the stitched sleeve along the front edge of the Hopper bag bottom as shown in figure 7.

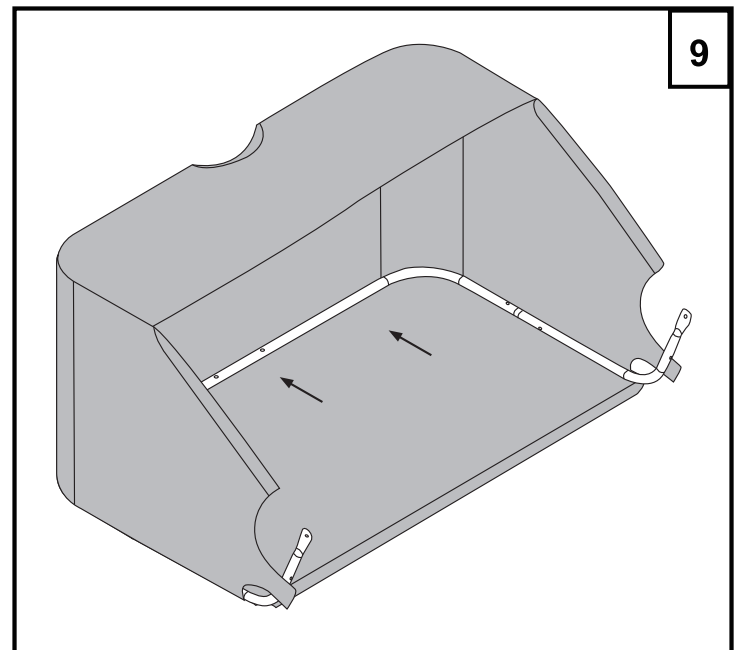


ASSEMBLY INSTRUCTIONS

8. (Figure 8) Turn the rear hopper tube(①) so that the brace holes in the middle of the tube face up. Assemble the ends of the rear hopper tube onto the ends of the lower hopper side tubes(③). Fasten together using Half-head screwsM6x30 (G) and Nylon Lock Nut,M6 (P).

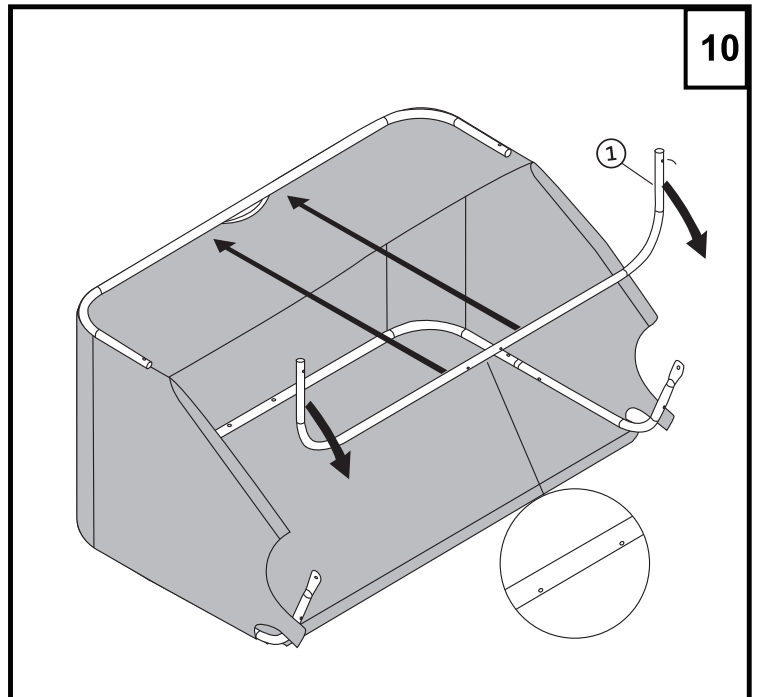


9. (Figure 9) Slide the assembled tube from step 8 into the bottom of the Hopper bag as shown figure 9.

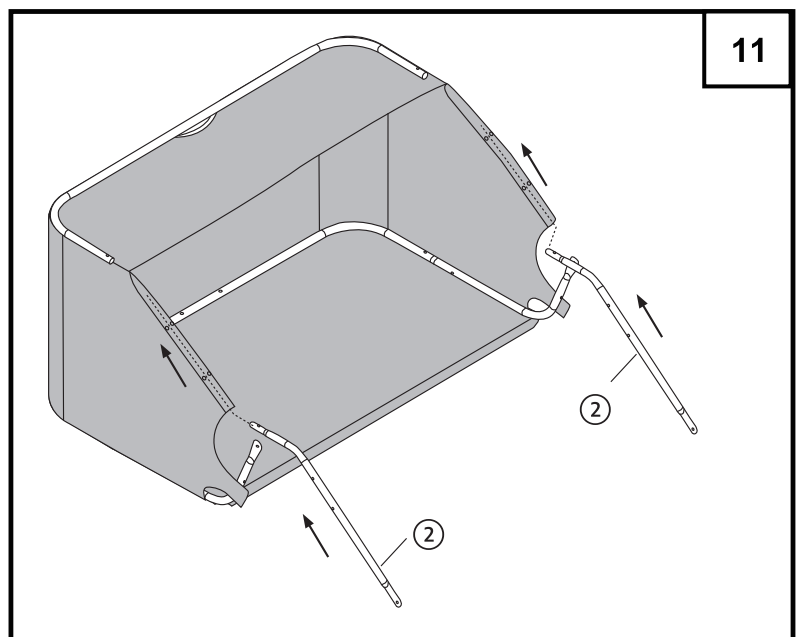


ASSEMBLY INSTRUCTIONS

10. (Figure 10) Turn the another rear hopper tube(①) so that the brace holes in the middle of the tube face down. Put rear hopper tube(①)slides through each collar on the top of the hopper bag.

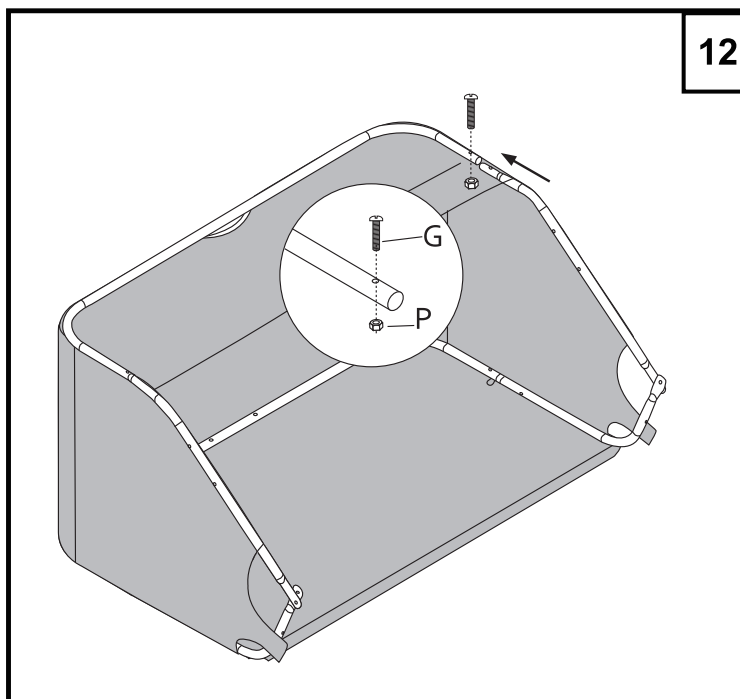


11. (Figure 11) Insert the two upper hopper side tubes(②)through the stitched flaps on each side of the hopper bag.

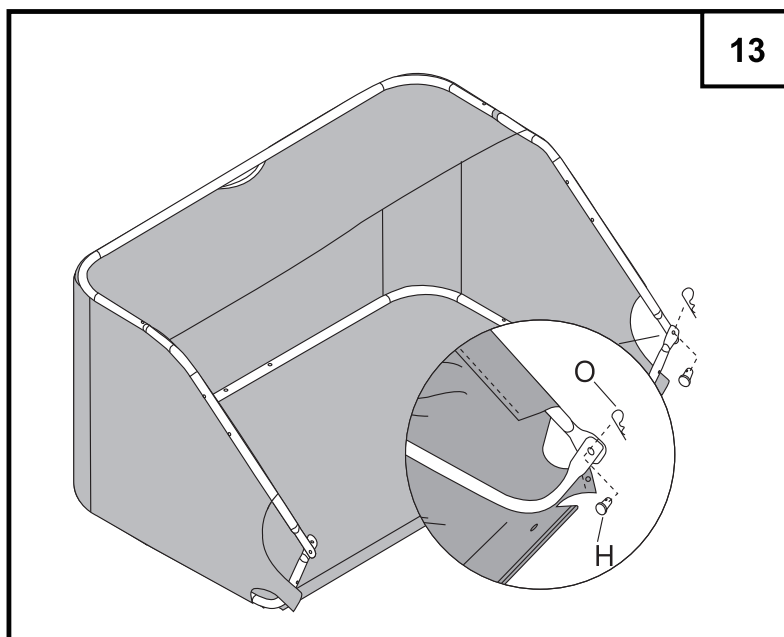


ASSEMBLY INSTRUCTIONS

12. (Figure 12) Assemble the ends of the rear hopper tube(①) onto the ends of the upper hopper side tubes (②) . Fasten together using Half-head screwsM6x30 (G) and Nylon Lock Nut,M6 (P).

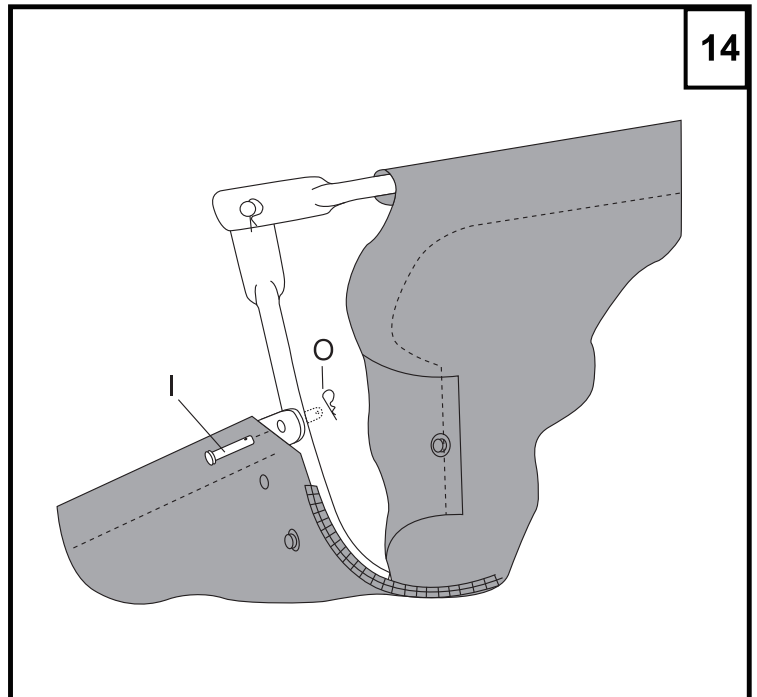


13. (Figure 13) Attach the ends of the lower hopper side tubes(③) to the inside of the upper hopper side tubes (②) using two Ø9.5 x 20 clevis pins (H) inserted from the inside, and two Ø2 R pins (O).

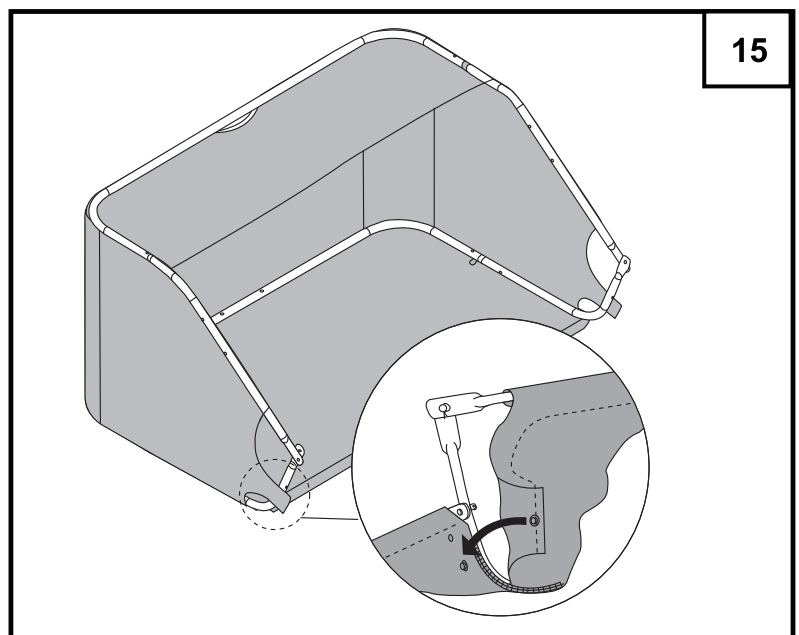


ASSEMBLY INSTRUCTIONS

14. (Figure 14) Assemble the bag frame strap to the lower hopper side tubes using two Ø6x30 clevis pins (I) and Ø2 R pins (O)

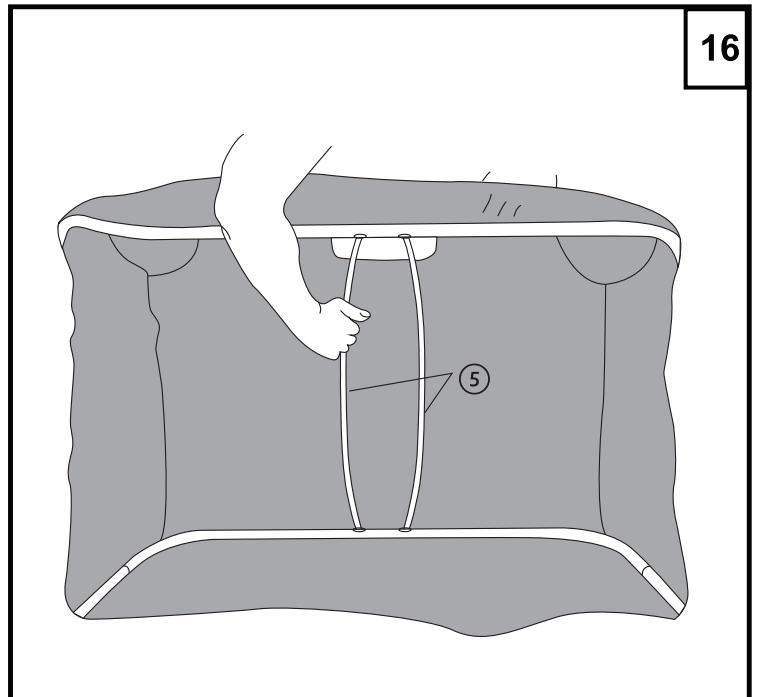


15. (Figure 15) Secure the bag corners around the lower hopper side tubes by snapping the bag flaps to the bag bottom on both sides.

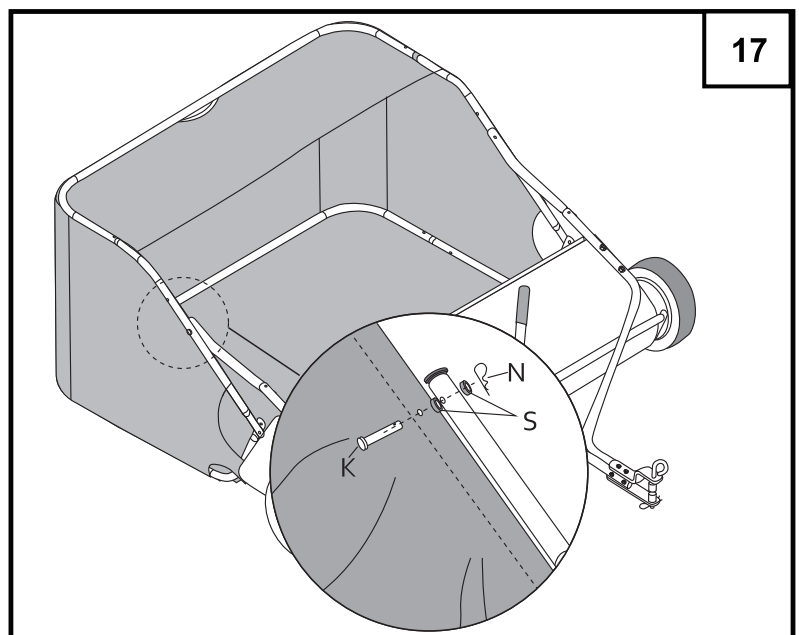


ASSEMBLY INSTRUCTIONS

16. (Figure 16) Tip the hopper onto its back to assemble the two hopper support rods(⑤) . Place the ends of each rod into the upper and lower rear hopper tubes, bending the rod just enough to fit into the holes in the tubes. **IMPORTANT:** Do not over bend the support rods during the following step. Over bending will cause the steel rods to loose supporting tension.

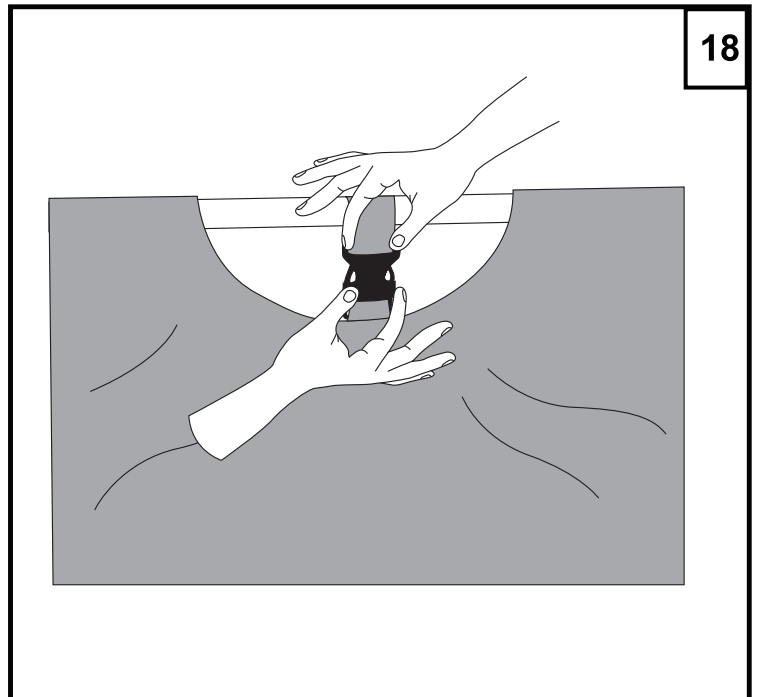


17. (Figure 17) Assemble the upper hole in the bag arm tube and the lower hole in each upper hopper side tube and Fasten together using one Clevis Pin Ø8x70(K)、 two Hitch Spacer Ø25x23(S)、 one R pin Ø3 (N) each side.

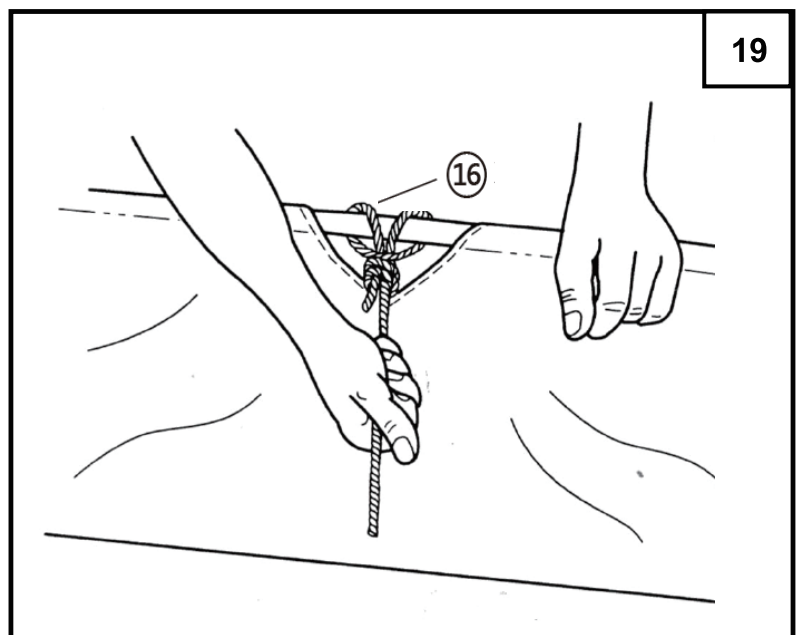


ASSEMBLY INSTRUCTIONS

18. (Figure 18) Snap the buckles on the Hopper Bag.



19. (Figure 19) Secure the rope (⑩) to the top center of the hopper bag frame.

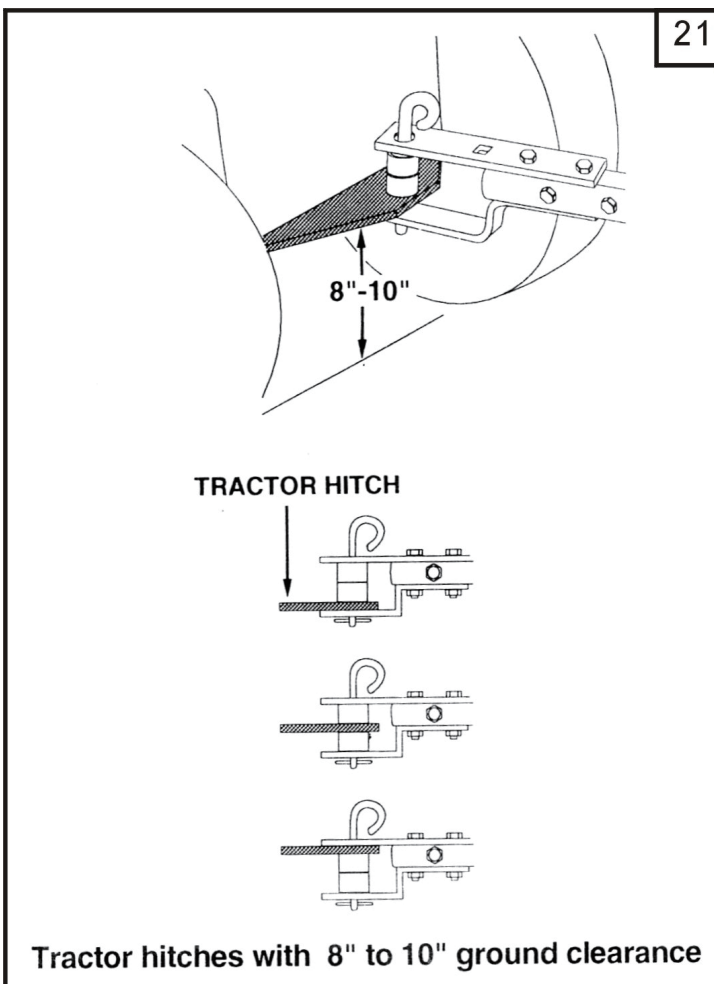
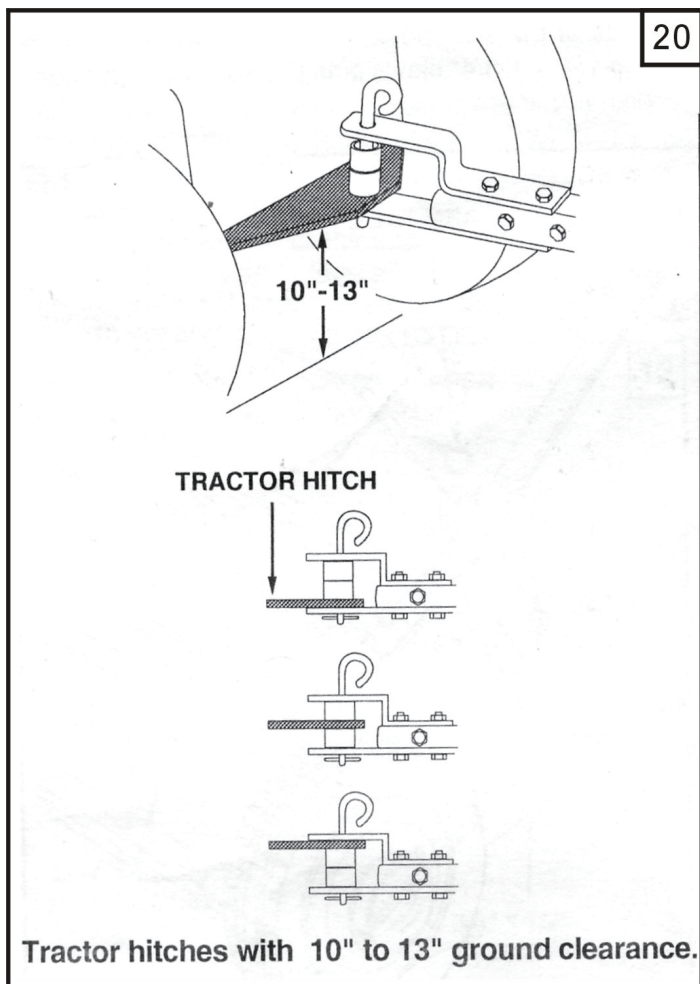
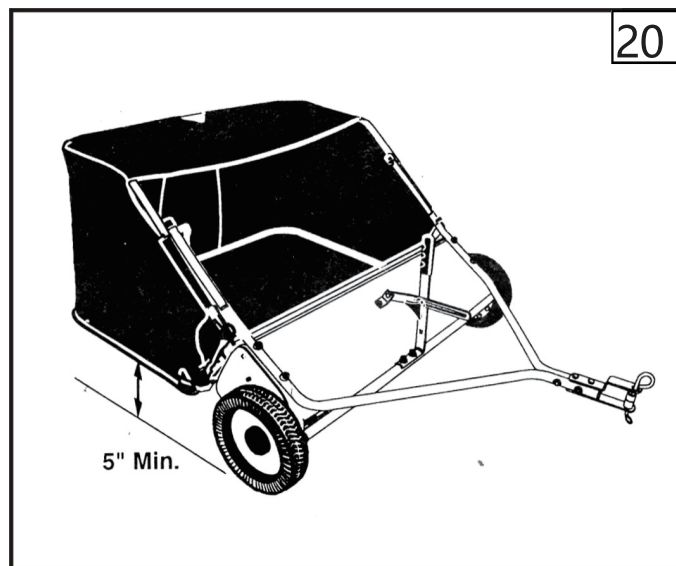


ASSEMBLY INSTRUCTIONS

ATTACHING SWEEPER HITCH TO TRACTOR (Figures 20, 21, 22)

1. Place the tractor and sweeper on a flat level surface.
2. Set the sweeper height adjustment handle to about the middle of its adjustment range.
3. Attach the sweeper hitch brackets to the tractor hitch, arranging the $\frac{3}{4}$ " spacers so that the bottom of the sweeper bag is approximately level and 5" to 7" above the ground. See figure 21 for tractor hitches that are 10" to 13" above the ground. See figure 22 for tractor hitches that are 8" to 10" above the ground.

IMPORTANT: For best performance, the bottom of the sweeper bag should be approximately level and 5" to 7" off the ground as shown in figure 20.



ASSEMBLY INSTRUCTIONS

HOW TO USE YOUR SWEEPER BRUSH HEIGHT ADJUSTMENT

To adjust your sweeper brushes to the best operating height, loosen the adjustment knob and push down on the height adjustment lever to raise the brush. Best adjustment is when the brush setting is 1/2" down into the grass. Always mow the grass to an even height before sweeping.

SWEEPING SPEED

Try a starting speed of approximately 3 m.p.h. (third gear on most tractors). Depending on the conditions, it may be necessary to adjust the sweeping speed in order to achieve best results.

DUMPING OF SWEEPER

Your sweeper can be dumped easily without getting off of the rider or tractor. Simply pull the rope forward to dump the hopper. Always empty hopper after each use.



CAUTION: Never attach the hopper rope to any part of your body or clothing! Never hold onto the rope while towing the sweeper! Attach the rope to the towing vehicle to keep it away from wheels and rotating parts.



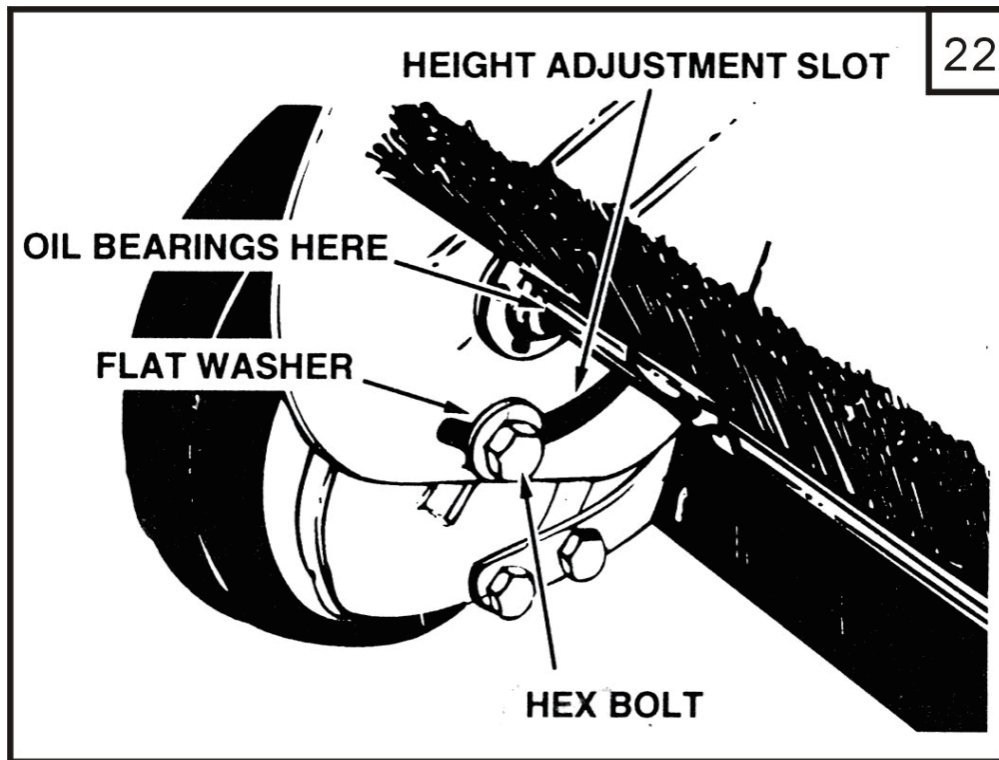
CAUTION: Keep sweeper away from fire. Excessive heat can damage the brushes and hopper bag and could cause the bag and its contents to burn.

MAINTENANCE

CUSTOMER RESPONSIBILITIES

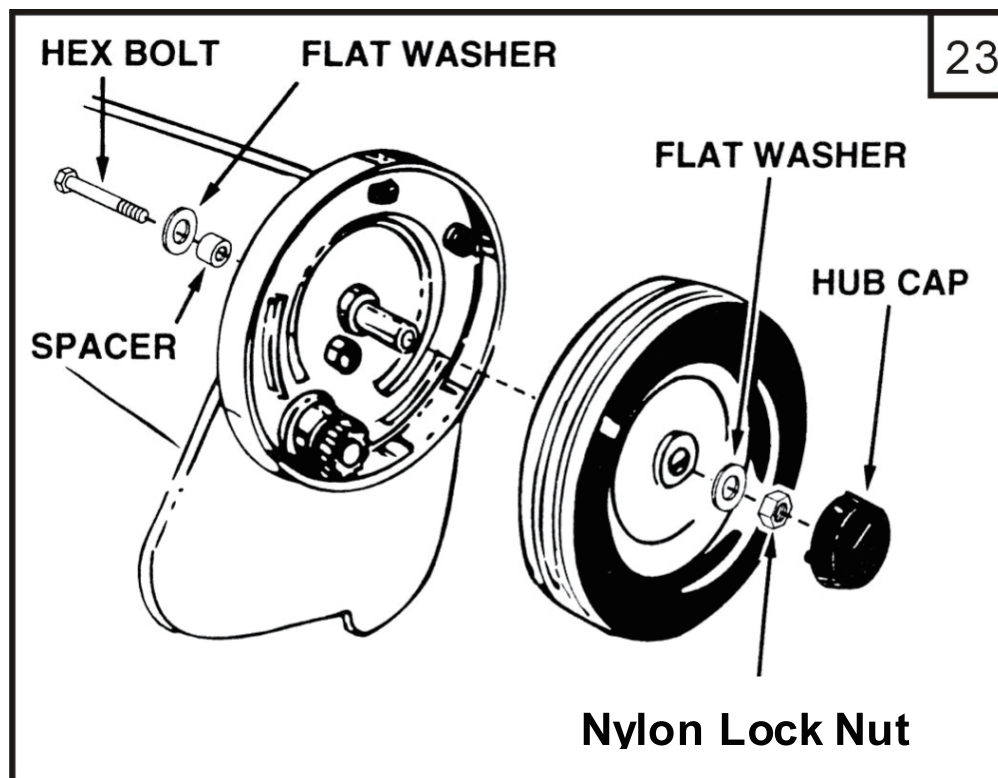
1. Check for loose fasteners before each use.
2. Clean the sweeper after each use.
 - a. Clean sweeper housing with a soft brush or cloth.
 - b. Clean debris from hopper bag with a brush or broom.
 - c. Remove any material which has wrapped around brushes or ends of brush shaft.
3. Inspect for worn or damaged parts, such as brushes and wheels before each use. Replace as necessary.
4. (Figure 23) Lubricate the brush shaft bearing twice a year with a few drops of light weight oil.
5. Lubricate the wheel bearings each season.

ASSEMBLY INSTRUCTIONS



Remove the hub cap and apply a few drops of light weight oil.

6.(Figure 24) Every two years, remove the wheels and clean the gears found inside the wheel housing. After cleaning, lubricate the gears with an even coat of light grease. To remove the wheel, pop off the hub cap and remove the lock nut and flat washer.



ASSEMBLY INSTRUCTIONS

STORAGE



CAUTION: Before storing the sweeper, always empty the hopper bag to avoid spontaneous combustion.

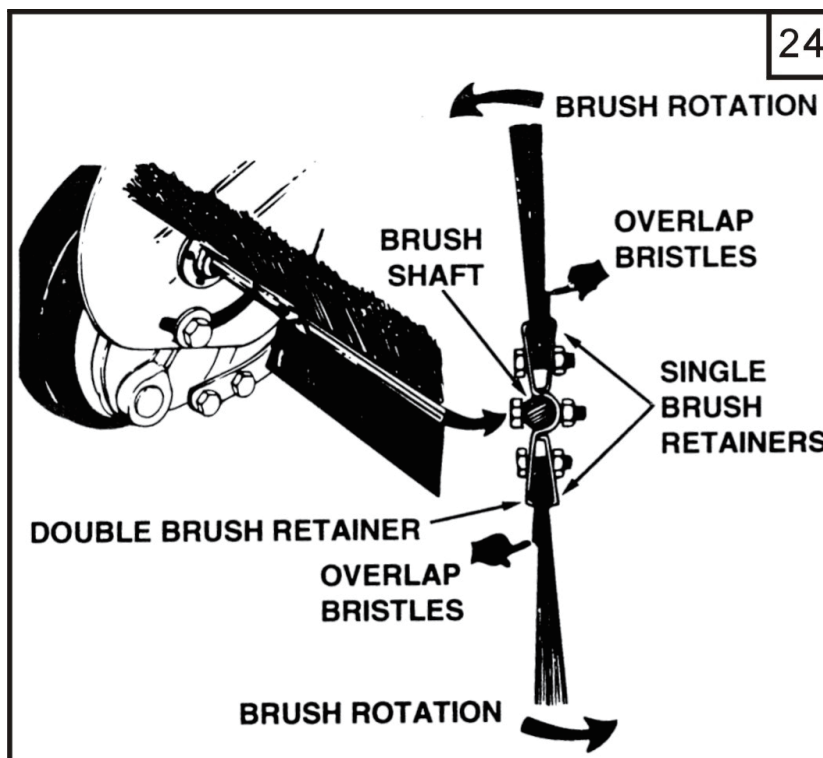
1. Clean the sweeper and hopper bag thoroughly to help prevent rust and mildew.
2. To collapse the hopper bag for storage, remove the two hopper support rods from the rear of the hopper.
3. Store in a dry area.

SERVICE AND ADJUSTMENTS

BRUSH REPLACEMENT

NOTE: Brush replacement should be done one brush at a time.

1. Remove the hopper bag from the sweeper.
2. (Figure 25) Loosen the hex bolts and lock nuts on two single brush retainers which clamp one brush to the double brush retainers. Do not loosen or remove the bolts which fasten the double brush retainers to the brush shaft.
3. (Figure 25) Slide the brush out of the retainers, noting on which side of the brush the bristles overlap.
4. (Figure 25) Install new brush, making sure the bristles overlap on the same side of the brush as before.

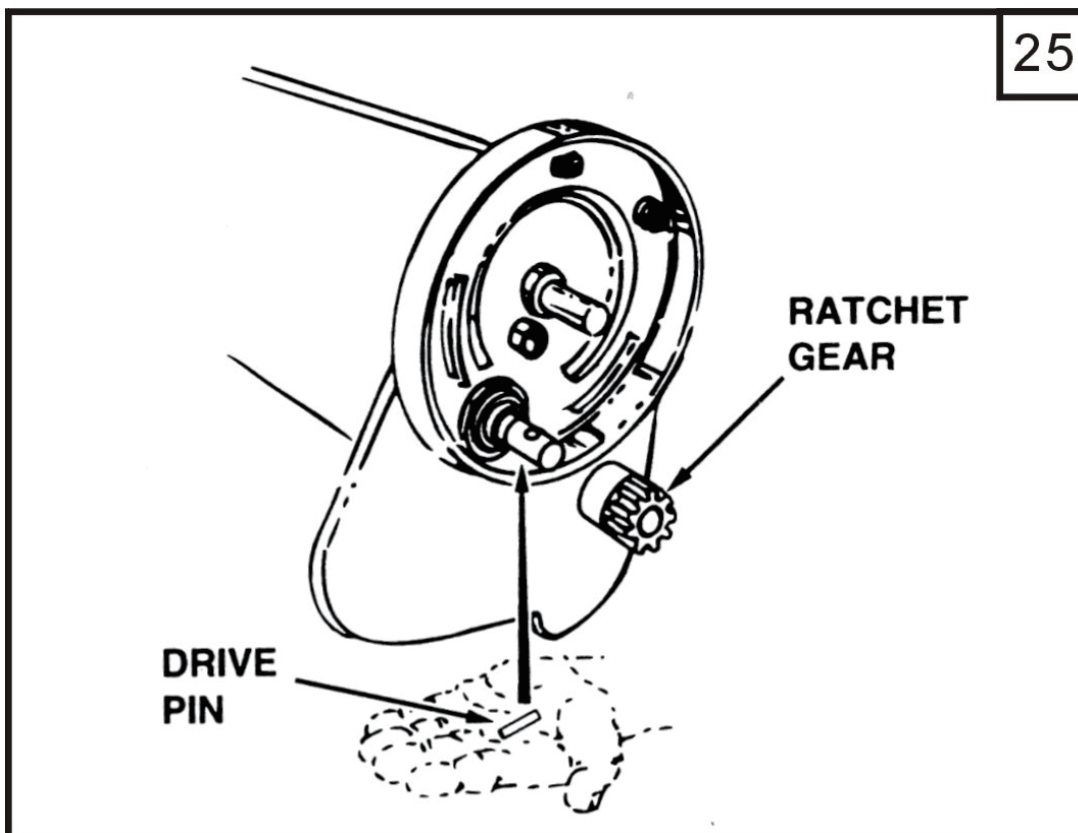


ASSEMBLY INSTRUCTIONS

WHEEL GEAR AND PAWL SERVICE

IMPORTANT: Do not remove both wheels at the same time to avoid mixing of parts. (The R.H. and L.H. ratchet gears are not interchangeable.) Make notes on the position of washers and snap rings during disassembly.

1. Remove only one wheel from the sweeper.
2. Remove the retaining rings and washers which hold the ratchet gear onto the brush shaft.
3. (Figure 26) Remove the gear by sliding it off the brush shaft. (Look for the drive pin, which may fall out of the brush shaft when the ratchet gear is removed.)
4. To reassemble, insert the drive pin through the hole near the end of the brush shaft. Make sure the pin slides back and forth easily in the shaft.
5. Lightly grease the shaft and fill the ratchet gear with grease. Assemble the ratchet gear back onto the shaft.
6. Lightly grease the axle and the gear teeth on the wheel, and then reassemble the wheel. The brushes should rotate only during forward rotation of the wheel. If the brushes are driven (rotated) by both forward and reverse rotation of the wheel, the drive pin is jamming in the ratchet gear. Disassemble to clean and lubricate the drive pin and the ratchet gear.



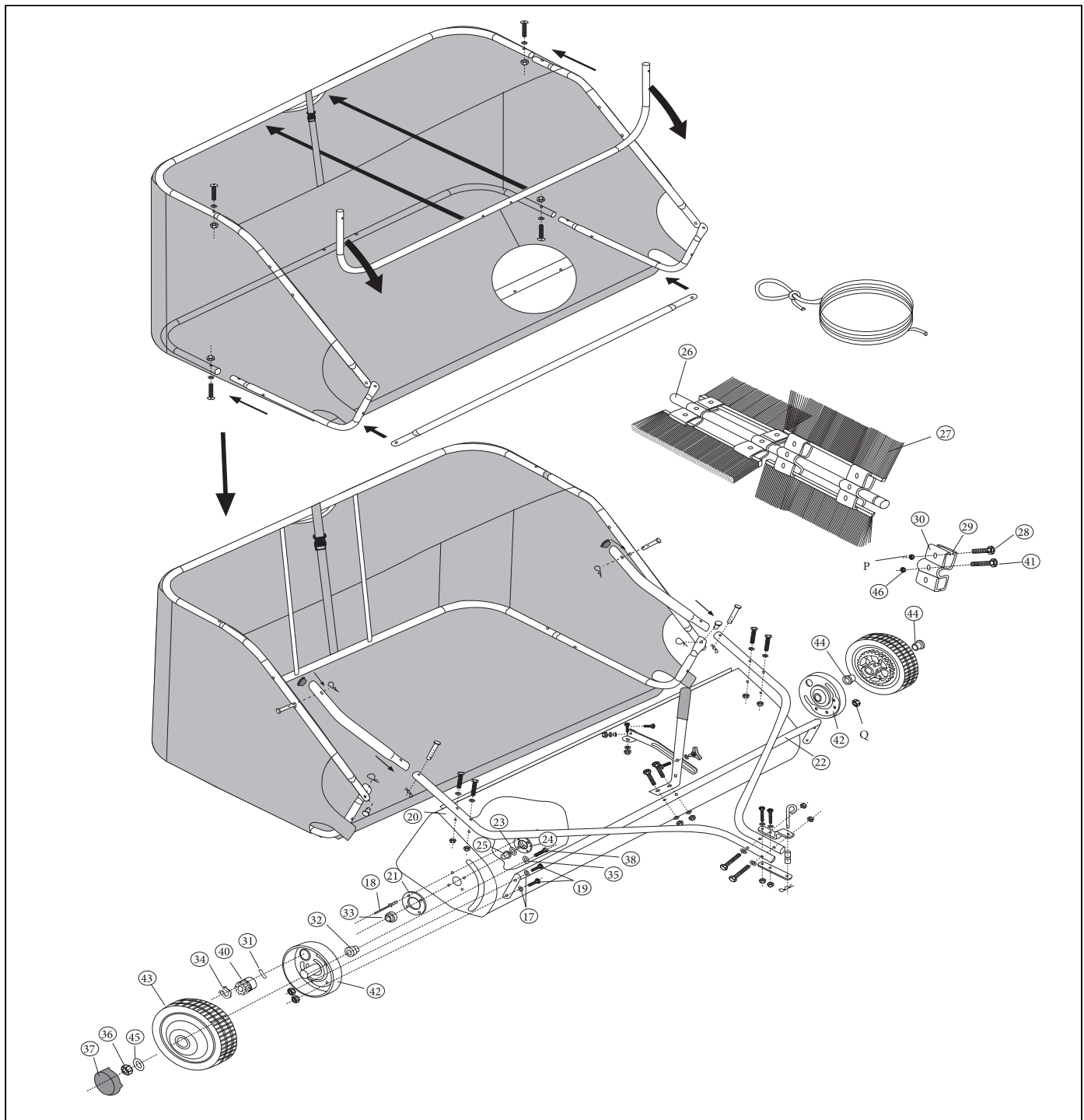
7. Remove the second wheel and repeat the procedure.

ASSEMBLY INSTRUCTIONS

TROUBLESHOOTING

Wheels skid when sweeping.	1.Brushes set too low. 2.Brushes are jammed 3.Wheels are jammed.	1.Adjust height till brushes are 1/2" down into grass. 2.Stop sweeper. Remove obstruction. 3.Remove one wheel at a time to check for obstruction or damage. Refer to Service and Adjustments section.
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REPAIR PARTS FOR TOW BEHIND LAWN SWEEPER



ASSEMBLY INSTRUCTIONS

REPAIR PARTS FOR TOW BEHIND LAWN SWEEPER

Ref #	Description	Qty.	Ref #	Description	Qty.
1	Rear Hopper Tube	2	A	Hex Bolt M8x65	2
2	Upper Hopper Side Tube	2	B	Hex Bolt M8x50	2
3	Lower Hopper Side Tube	2	C	Hex Bolt M6x40	4
4	Bag Arm Tube	2	D	Hex Bolt M8x40	2
5	Hopper Support Rod	2	E	Hex Bolt M8x20	2
6	Bag Frame Strap	1	G	Half-head screwsM6x30	4
7	Hitch Tube, Left Side	1	H	Clevis Pin Ø9.5x20	2
8	Hitch Tube, Right Side	1	I	Clevis Pin Ø6x30	2
9	Sweeper Housing Assembly	1	J	Clevis Pin Ø8x40	2
10	Angle Bracket	1	K	Clevis Pin Ø8x70	2
11	Handle Assembly	1	L	Big Flat Washer Ø8	8
12	Hitch Bracket	1	M	Washer Ø6	4
13	Hitch Bracket (Straight)	1	N	R Pin Ø3	4
14	Hopper Bag	1	O	R Pin Ø2	4
15	Hitch Pin & Spacer & R Pin Ø3	1	P	Nylon Lock Nut,M6	16
16	Rope	1	Q	Nylon Lock Nut,M8	12
17	Washer, Ø8	4	R	Adjustable Pole Spacer	1
18	Slotted pan head screw M5x13	8	S	Hitch Spacer Ø25 x 23	4
19	Hex Bolt M8x16	4			
20	Wrapper	1			
21	Special Washer	2			
22	Height Adjustment Tube Assy	1			
23	Inside Washer	2			
24	Dust Cover Retainer	2			
25	Brush Shaft Bushing	2			
26	Brush Shaft	1			
27	Brush	4			
28	Hex Bolt M6x20	8			
29	Retainer, Brush (Double)	4			
30	Retainer, Brush (Single)	8			
31	Dowel Pin (Drive)	2			
32	Spacer for Axle	2			
33	Bushing	2			
34	Retaining Ring,Ø15	2			
35	Big Flat Washer, Ø10	2			
36	Nylon Lock Nut,M10	2			
37	Hub Cap	2			
38	Hex Bolt,M10×85	2			
39	Pinion Gear L.H. (No Shown)	1			
40	Pinion Gear R.H.	1			
41	Hex Bolt M5x25	4			
42	Dust Cover Assy	2			
43	Wheel	2			
44	Wheel Bushing	4			
45	Big Flat Washer, Ø10	2			
46	Nylon Lock Nut,M5	4			