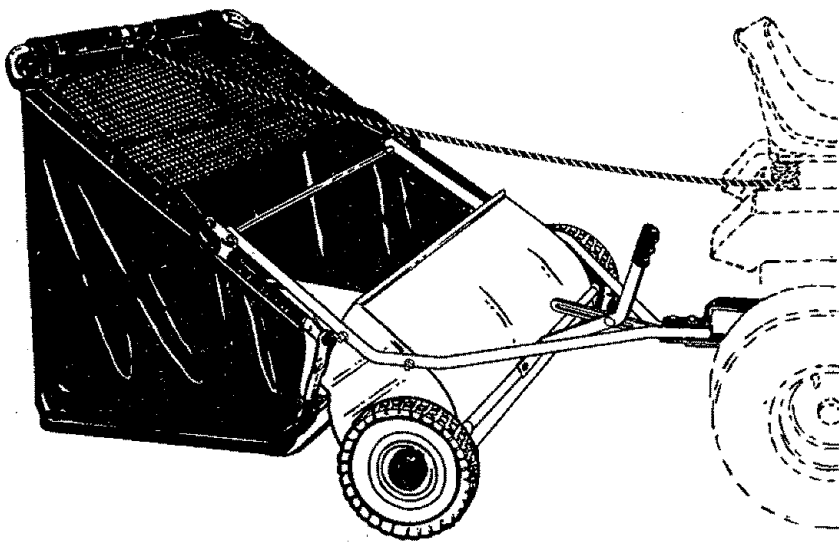


# Owner's Manual

# CRAFTSMAN®

## 42" HIGH PERFORMANCE LAWNSWEEPER

Model No. 486.24211



### CAUTION:

Before using this product, read this manual and follow all Safety Rules and Operating Instructions.

- Safety
- Assembly
- Operation
- Maintenance
- Parts

### IMPORTANT - READ THIS FIRST!!!

For Missing Parts or Assembly Questions

Please Call 217-728-8388

Mon.-Fri. 7 am - 5 pm CST.

FAX 217-728-2032 or e-mail [info@agri-fab.com](mailto:info@agri-fab.com)

Missing parts will be sent UPS in 24 hours directly to your home.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

[www.sears.com/craftsman](http://www.sears.com/craftsman)

PRINTED IN U.S.A.

FORM NO. 46821 (REV. 8/01)

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## WARRANTY

### LIMITED TWO YEAR WARRANTY ON CRAFTSMAN LAWSWEEPER

For two years from the date of purchase, when this Lawnsweeper is maintained and lubricated according to the operating and maintenance instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship.

This warranty does not cover repairs necessary because of operator abuse or negligence, including the failure to maintain the equipment according to instructions contained in the owner's manual; and Lawnsweeper used for commercial or rental purposes.

WARRANTY SERVICE IS AVAILABLE BY CONTACTING THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

This warranty applies only while this product is in the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Sears, Roebuck and Co. D/817WA, Hoffman Estates, Chicago, IL 60179



## SAFETY



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. Excessive heat can damage the brushes and hopper bag and could cause the bag and its contents to burn.
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.

The model and serial numbers will be found on a decal attached to the lawnsweeper.

You should record both the serial number and the date of purchase and keep in a safe place for future reference.

MODEL NUMBER:

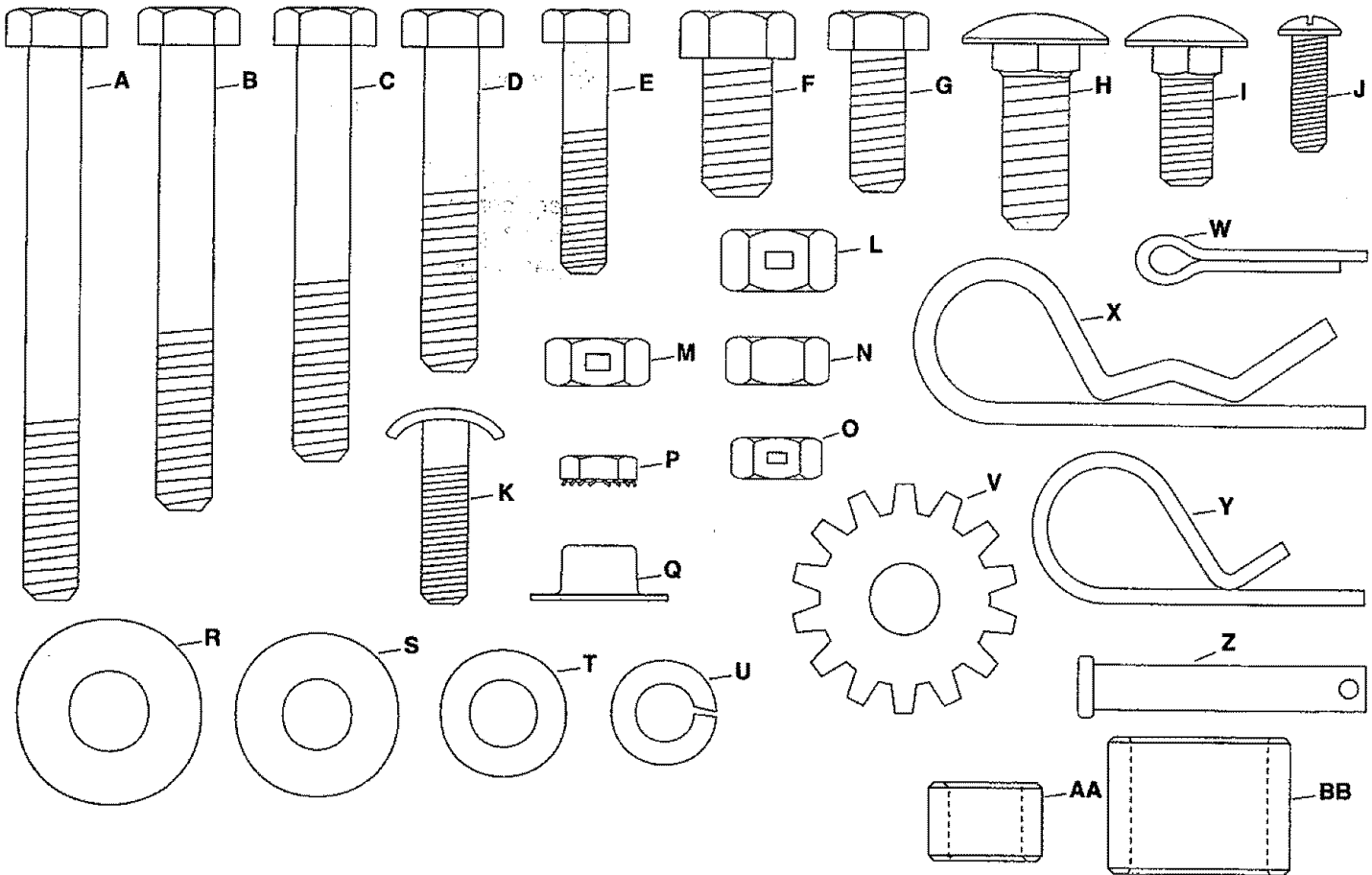
486.24211

SERIAL NUMBER:

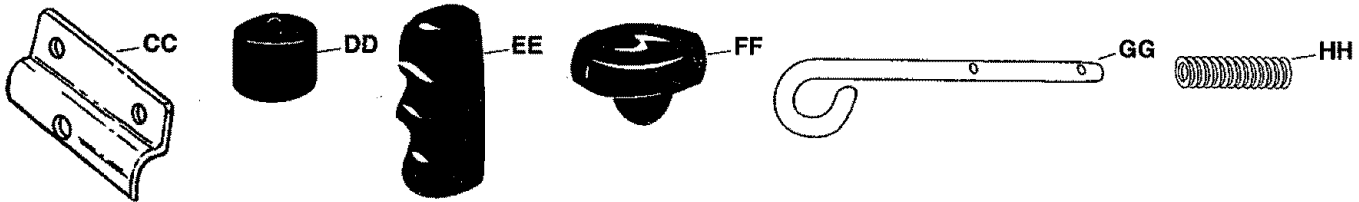
DATE OF PURCHASE:

# HARDWARE PACKAGE CONTENTS

## SHOWN FULL SIZE



## NOT SHOWN FULL SIZE

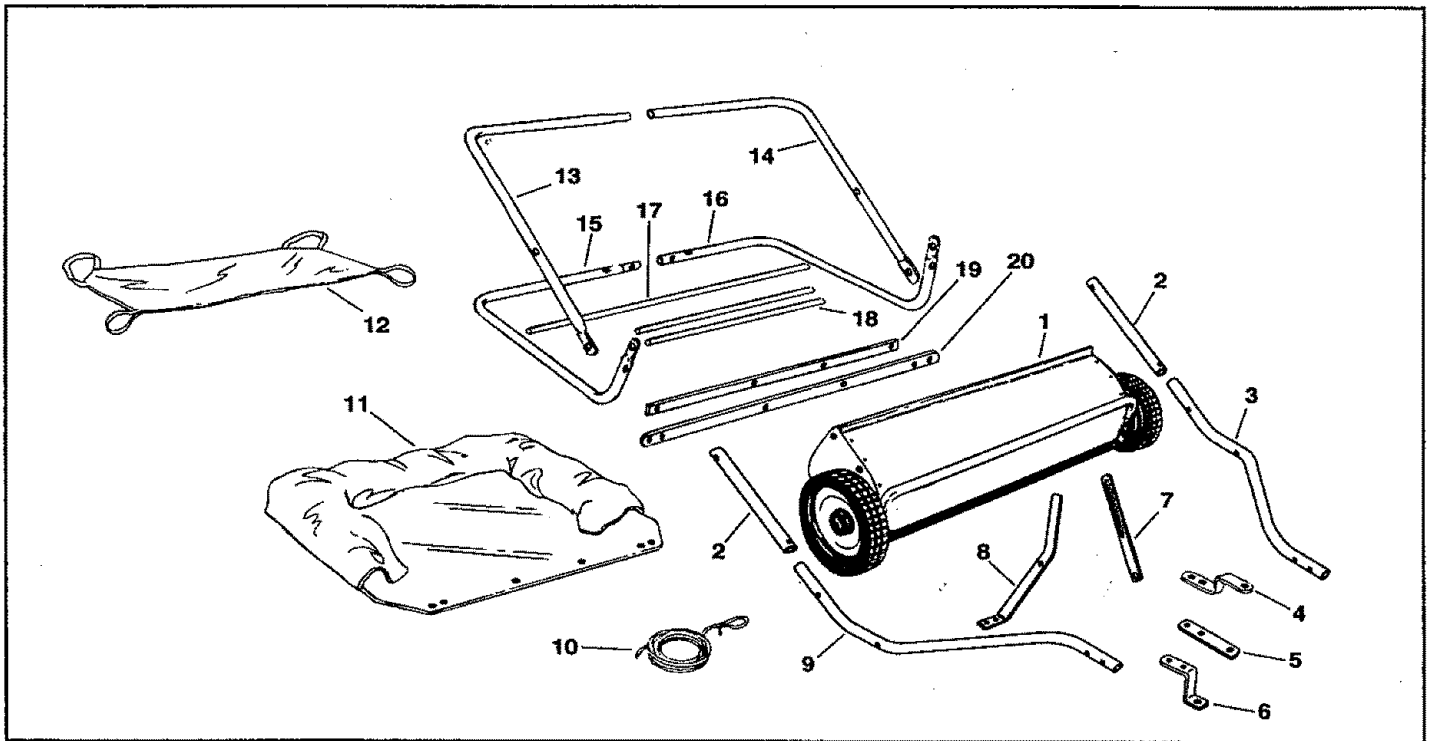


REF.	QTY.	DESCRIPTION	REF.	QTY.	DESCRIPTION
A	2	Hex Bolt, 5/16-18 x 3" Lg.	R	1	Flat Washer, 3/8"
B	1	Hex Bolt, 5/16-18 x 2-1/2" Lg.	S	1	Flat Washer, 5/16" Standard
C	1	Hex Bolt, 5/16-18 x 2-1/4" Lg.	T	2	Flat Washer, 5/16" (Small)
D	4	Hex Bolt, 5/16-18 x 1-3/4" Lg.	U	6	Lock Washer, 5/16"
E	2	Hex Bolt, 1/4-20 x 1-1/4" Lg.	V	1	Washer, Tooth Lock 5/16"
F	2	Hex Bolt, 3/8-16 x 3/4" Lg.	W	1	Cotter Pin, 1/8" x 3/4"
G	4	Hex Bolt, 5/16-18 x 3/4" Lg.	X	1	Hairpin Cotter, 1/8"
H	1	Carriage Bolt, 3/8-16 x 1" Lg.	Y	2	Hairpin Cotter, 3/32"
I	1	Carriage Bolt, 5/16-18 x 3/4" Lg.	Z	2	Clevis Pin, 1/4" x 1-1/2"
J	6	Slotted Screw, #10-32 x 5/8" Lg.	AA	1	Spacer Bushing,
K	2	Curved Head Bolt, 1/4-20 x 1" Lg.	BB	2	Hitch Spacer, 3/4"
L	3	Hex Lock Nut, 3/8"	CC	4	Hopper Mount Clamp
M	8	Hex Lock Nut, 5/16"	DD	2	Vinyl Cap
N	4	Hex Nut (Plain), 5/16"	EE	1	Grip
O	4	Hex Lock Nut, 1/4"	FF	1	Knob, Plastic
P	6	Hex Lock Nut, #10-32	GG	1	Hitch Pin
Q	2	Palnut, 3/8"	HH	1	Spring

# ASSEMBLY

## CARTON CONTENTS (Loose Parts in Carton)

1. Sweeper Housing Assembly
2. Bag Arm Tube (2)
3. Hitch Tube, L.H. (Left Hand)
4. Hitch Bracket
5. Hitch Bracket (Straight)
6. Hitch Pin Bracket
7. Height Adjustment Strap
8. Height Adjustment Handle
9. Hitch Tube, R.H. (Right Hand)
10. Rope
11. Hopper Bag
12. Windscreen
13. Upper Hopper Tube, R.H.
14. Upper Hopper Tube, L.H.
15. Lower Hopper Tube, R.H.
16. Lower Hopper Tube, L.H.
17. Hopper Bag Pivot Rod
18. Hopper Support Rod (2)
19. Bag Retaining Strap
20. Bag Frame Strap



## CARTON CONTENTS

### REMOVAL OF PARTS FROM CARTON

- Remove the sweeper, the loose parts and the hardware package from the carton. Lay out the parts and hardware as shown on pages 3 and 4.

### TOOLS REQUIRED FOR ASSEMBLY

- (1) Pliers
- (1) Screwdriver
- (1) Hammer
- (1) Adjustable Wrench
- (1) 9/16" Open End or Box End Wrench
- (1) 7/16" Open End or Box End Wrench
- (1) 1/2" Open End or Box End Wrench
- (1) 3/8" Open End or Box End Wrench

## ASSEMBLY OF SWEEPER

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

- Cut off the plastic tie holding the height adjustment tube in place. See figure 1.
- Assemble the R.H. and L.H. hitch tubes to the sweeper housing using four 5/16" x 1-3/4" hex bolts, 5/16" lock washers and 5/16" hex nuts. **Do not tighten yet.** See figure 1.

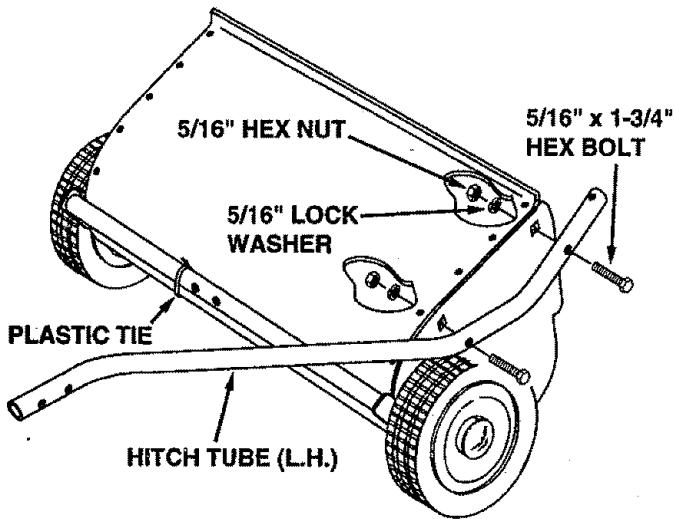


FIGURE 1

- Place the spacer bushing into the hole in the height adjustment strap. Place the strap with bushing between the hitch tubes, aligned with the rear hole. Fasten the hitch tubes together, with the strap and bushing between them, using two 5/16" x 3" hex bolts, 5/16" flat washers (smaller), 5/16" lock washers and 5/16" hex lock nuts. **Do not tighten yet.** See figure 2.

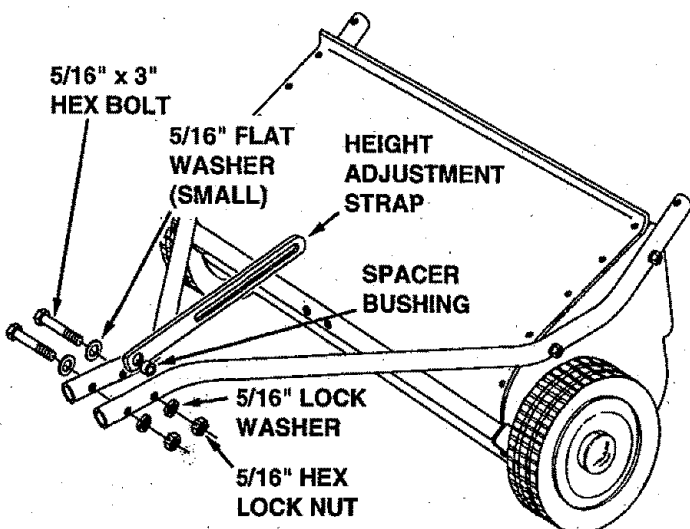


FIGURE 2

- Assemble the hitch pin bracket, the spring and the 3/8" flat washer onto the hitch pin. Secure them onto the hitch pin with a 1/8" x 3/4" cotter pin placed into the middle hole in the hitch pin. Spread ends of cotter pin around hitch pin. See figure 3.
- Assemble the hitch pin bracket to the straight hitch bracket using a 3/8" x 1" carriage bolt and a 3/8" hex lock nut. Align the brackets and **tighten.** See figure 3.

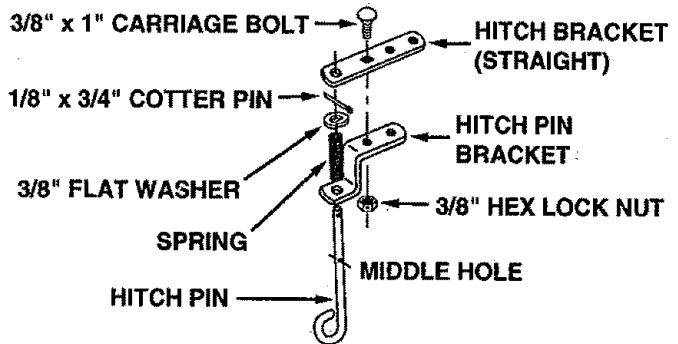


FIGURE 3

If your tractor hitch has 10" to 13" ground clearance use the instructions below to assemble the sweeper hitch brackets. If your tractor hitch has less than 10" ground clearance, go to page 6.

- Place the bent hitch bracket on top of the hitch tubes and place the straight hitch bracket with hitch pin underneath the hitch tubes. Fasten together using a 5/16" x 2-1/2" hex bolt (front), a 5/16" x 2-1/4" hex bolt (rear) and two 5/16" hex lock nuts as shown in figure 4. The bolts should straddle the front hitch tube bolt. **Do not tighten yet.**
- At this time **tighten** the four bolts fastening the hitch tubes to the sweeper housing. Next, **tighten** the two bolts fastening the hitch tubes together. Finally, **tighten** the two bolts fastening the hitch brackets to the hitch tubes.
- Assemble the two 3/4" spacers onto the hitch pin and secure the pin with the 1/8" hairpin cotter. See figure 4.

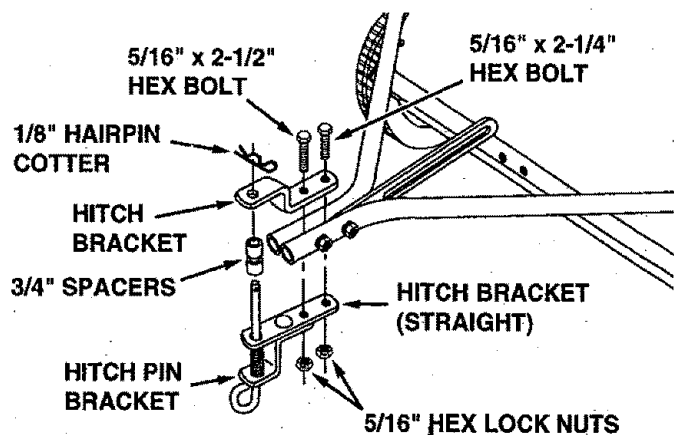


FIGURE 4

If your tractor hitch has 8" to 10" ground clearance, use the instructions below to assemble the sweeper hitch brackets. If your tractor hitch has more than 10" ground clearance, refer back to page 5 for the assembly of the sweeper hitch brackets.

- Place the bent hitch bracket underneath the hitch tubes and place the straight hitch bracket with hitch pin on top of the hitch tubes. Fasten together using a 5/16" x 2-1/2" hex bolt (front), a 5/16" x 2-1/4" hex bolt (rear) and two 5/16" hex lock nuts as shown in figure 5. The bolts should straddle the front hitch tube bolt. **Do not tighten yet.**
- At this time **tighten** the four bolts fastening the hitch tubes to the sweeper housing. Next, **tighten** the two bolts fastening the hitch tubes together. Finally, **tighten** the two bolts fastening the hitch brackets to the hitch tubes.
- Assemble the two 3/4" spacers onto the hitch pin and secure the pin with the 1/8" hairpin cotter. See figure 5.

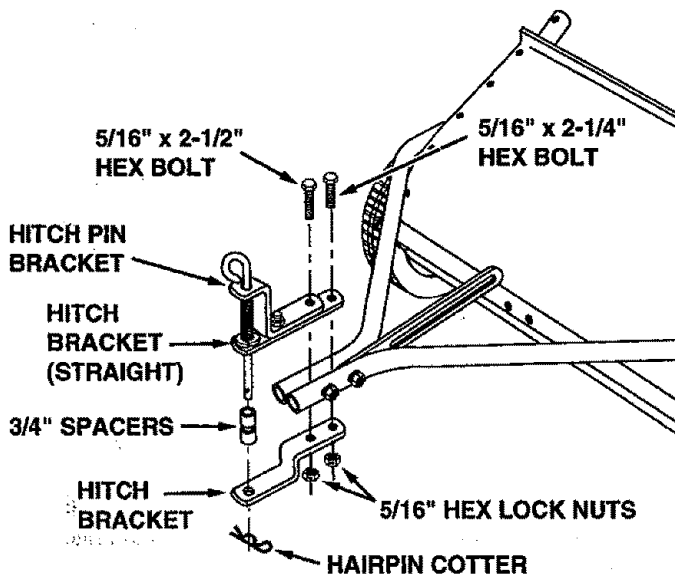


FIGURE 5

- Assemble the height adjustment handle to the height adjustment tube using the curved bolts, washers and nuts which come pre-assembled to the tube. Tighten the height adjustment handle so that the height adjustment strap is aligned with the outside of the handle. See figure 6.
- Assemble the grip onto the end of the height adjustment handle as shown in figure 6.

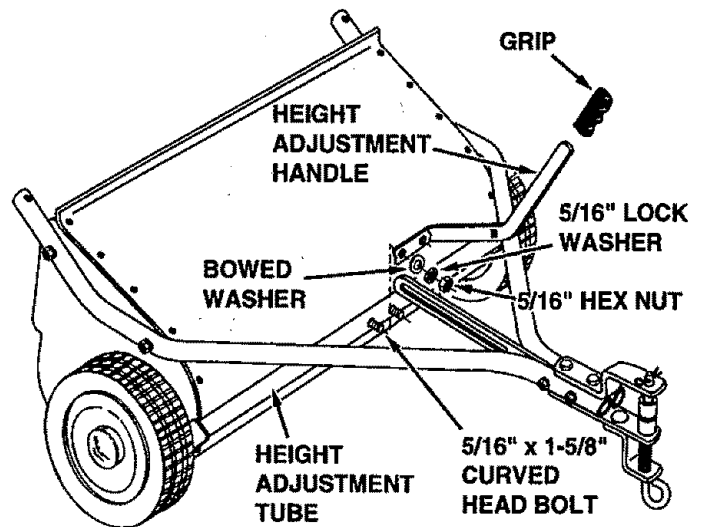


FIGURE 6

- Place the 5/16" tooth-lock washer between the height adjustment handle and the height adjustment strap. Insert the 5/16" x 3/4" carriage bolt through the handle, the tooth-lock washer and the strap. Assemble the 5/16" standard flat washer and the plastic knob onto the end of the bolt and tighten. See figure 7.

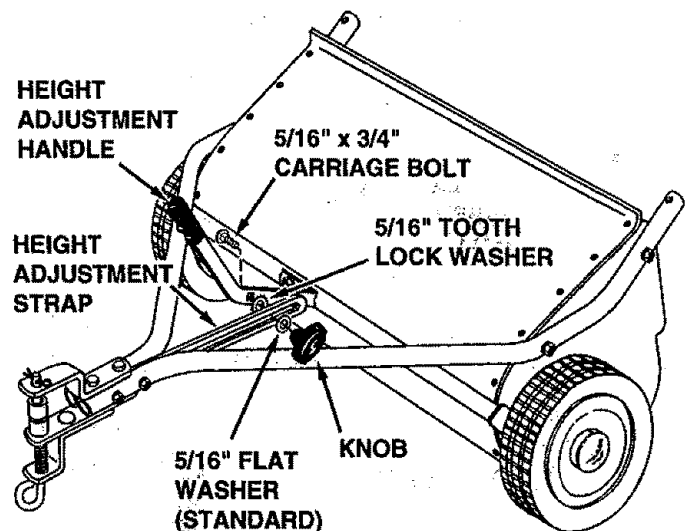


FIGURE 7

## ASSEMBLY OF HOPPER BAG

- Insert the left hand upper hopper tube through the stitched flaps of the hopper bag, **starting at the center cut out** in the top of the bag. See figures 8, 9 and 10. Repeat for the right hand upper hopper tube.

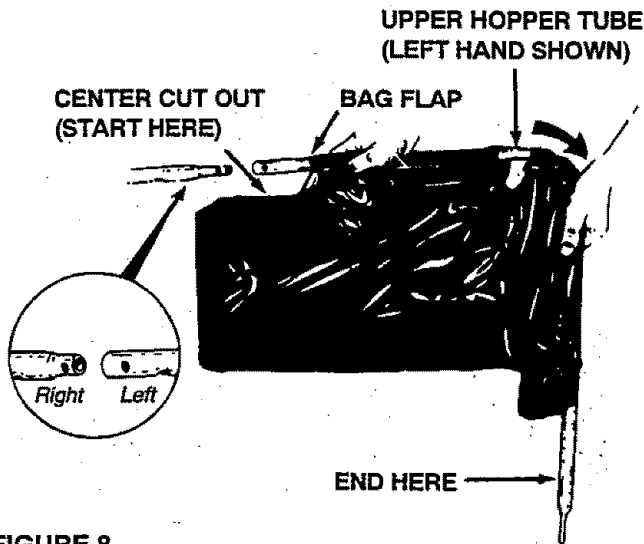


FIGURE 8

- Slide the two upper hopper tubes together and line up the center holes as shown in figure 9.

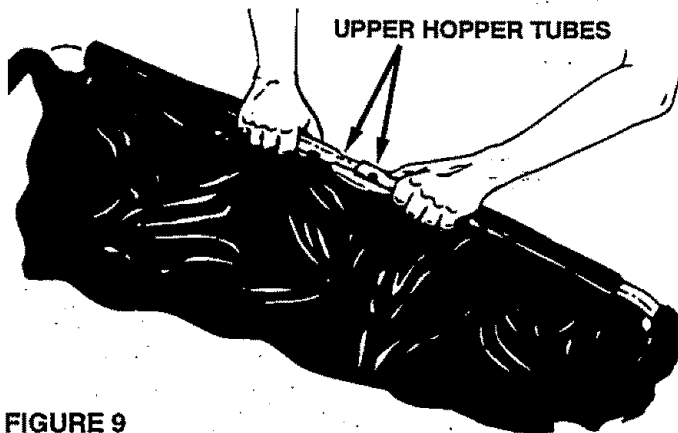


FIGURE 9

- Fasten the upper hopper tubes together using a 1/4" x 1" curved head bolt and a 1/4" hex lock nut. See figure 10.

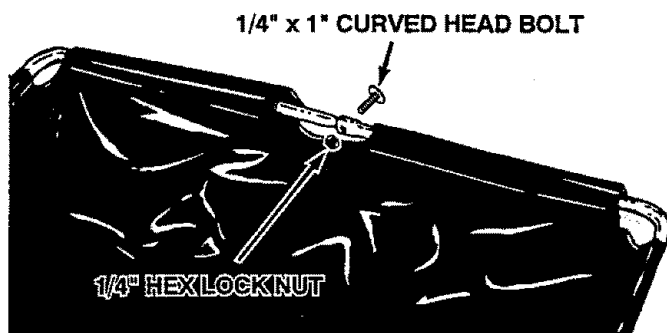


FIGURE 10

- Assemble the two lower hopper tubes together using a 1/4" x 1" curved head bolt and a 1/4" hex lock nut. See figure 11.

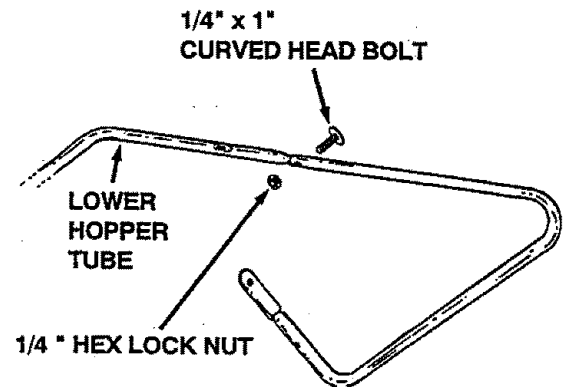


FIGURE 11

- Place the assembled lower hopper tubes into the bottom of the hopper bag as shown in figure 12.
- Assemble the ends of the upper and lower hopper tubes together using two 3/8" x 3/4" hex bolts (on the inside) and two 3/8" hex lock nuts (on the outside). Tighten to allow bag to pivot freely. See figure 12.

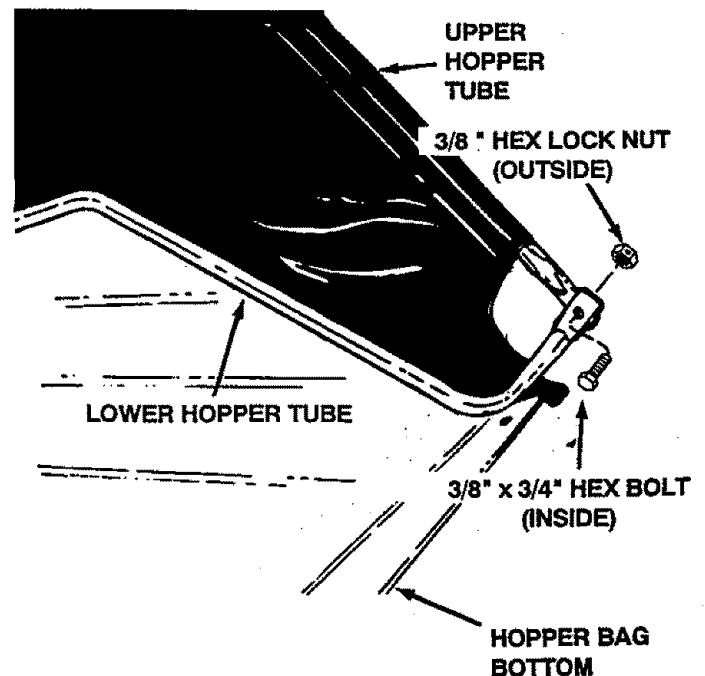


FIGURE 12

- Assemble the bag retainer and the bag frame strap to the front edge of the bag bottom. Place the bag retainer on top and the bag frame strap underneath the bag bottom. Fasten together using six #10 x 5/8" slotted screws and #10-32 hex lock nuts. See figure 13.

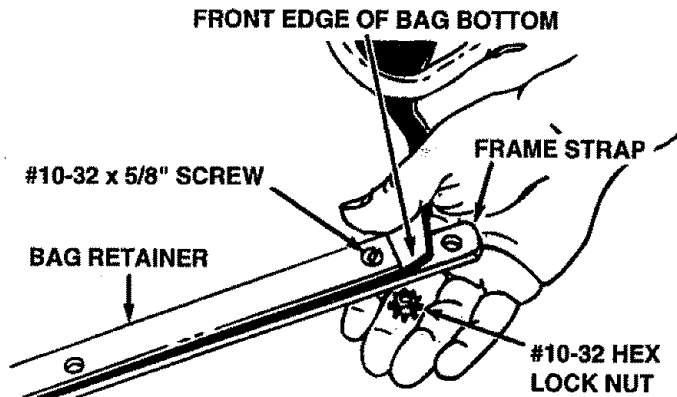


FIGURE 13

- Assemble the frame strap to the lower hopper tube using two 1/4" x 1-1/4" hex bolts and 1/4" hex lock nuts. See figure 14.

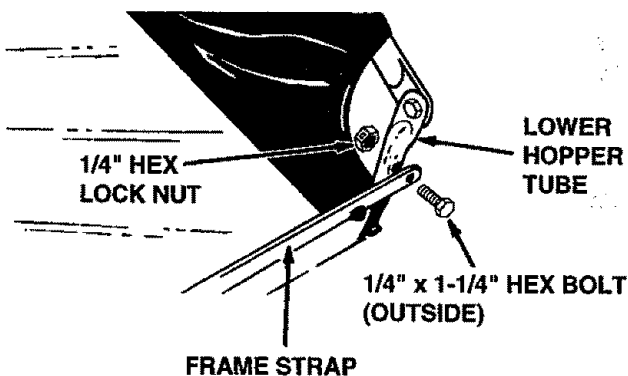


FIGURE 14

- Secure the bag corners over the lower hopper tube by snapping the flap to the bag bottom on both sides. See figure 15.

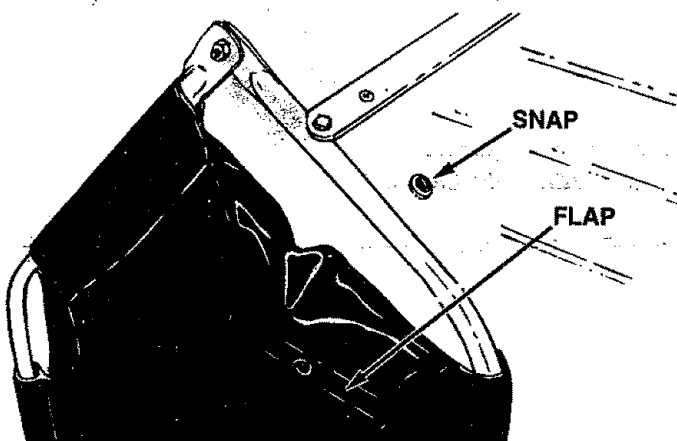


FIGURE 15

**IMPORTANT:** Do not over bend the support rods during the following step. Over bending will cause the spring steel rods to loose supporting tension.

- Assemble the two hopper support rods as shown in figure 16. Place end of rod into hole in upper hopper tube and bend rod just enough to fit bottom end of rod into hole in bottom hopper tube.

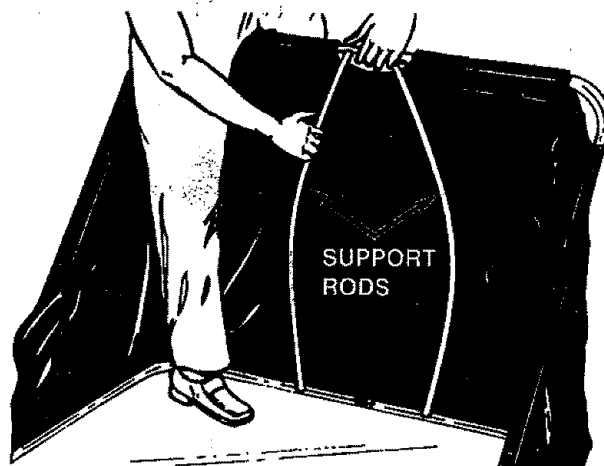


FIGURE 16

- Locate (by touch) the hole in each upper hopper tube, approximately midway along the side of the bag. Pierce holes through the stitched bag flaps, aligned with the holes in both hopper tubes. See figure 17.

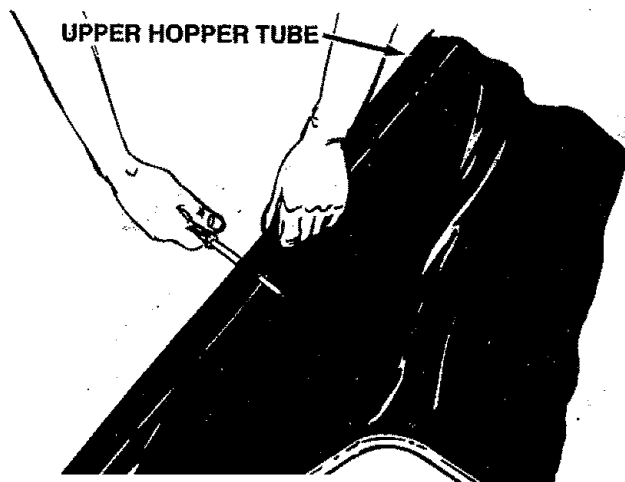


FIGURE 17

- Assemble a vinyl cap onto each bag arm tube as shown in figure 18.

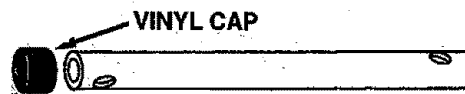


FIGURE 18



- Slide the hopper bag pivot rod through the side of an upper hopper tube where the hole was pierced. Assemble onto the rod a mounting clamp, two bag arm tubes and another mounting clamp as shown in figure 19. Push the rod on through the upper hopper tube on the opposite side of the bag.

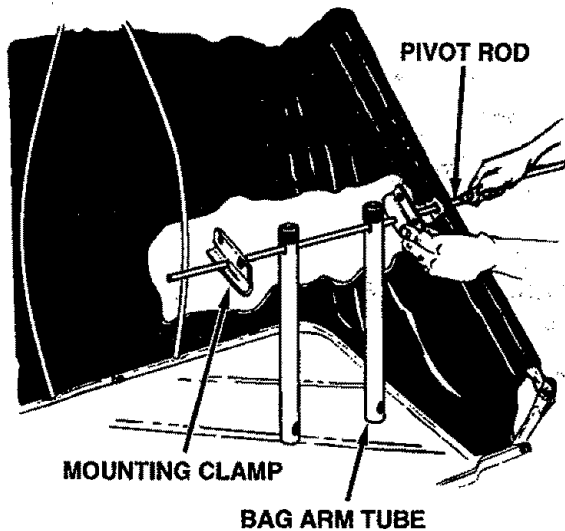


FIGURE 19

- Assemble the two remaining hopper mount clamps onto the pivot rod on the outside of the bag. Fasten them to the inside clamps using four 5/16" x 3/4" hex bolts and 5/16" hex lock nuts. Tighten securely. See figure 20.
- Assemble two palnuts by lightly tapping them onto the ends of the pivot rod with a hammer. See figure 20.

**HINT:** To ease assembly of the palnuts, place the bag on its side on a hard surface. With the bottom end of the pivot rod against the surface, tap a palnut onto the top end of the rod. Repeat for other end of rod.

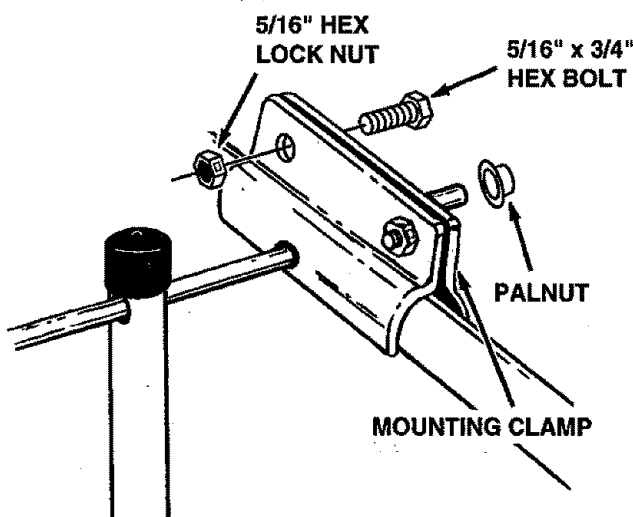


FIGURE 20

- Secure the rope to the top center of the hopper bag frame as shown in figure 21.

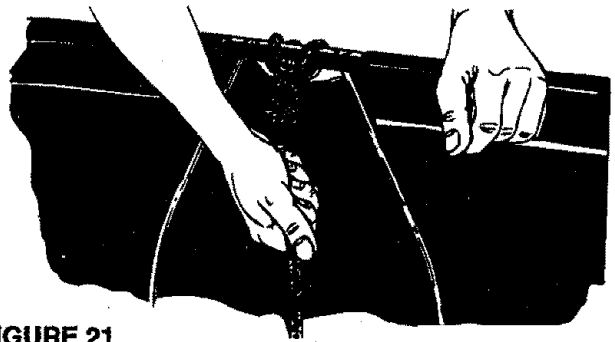


FIGURE 21

- Assemble the wind screen to the hopper bag frame by hooking the bag's top corner loops over the upper hopper tube and then pulling the bag's bottom loops down over the ends of the pivot rod. See figure 22.

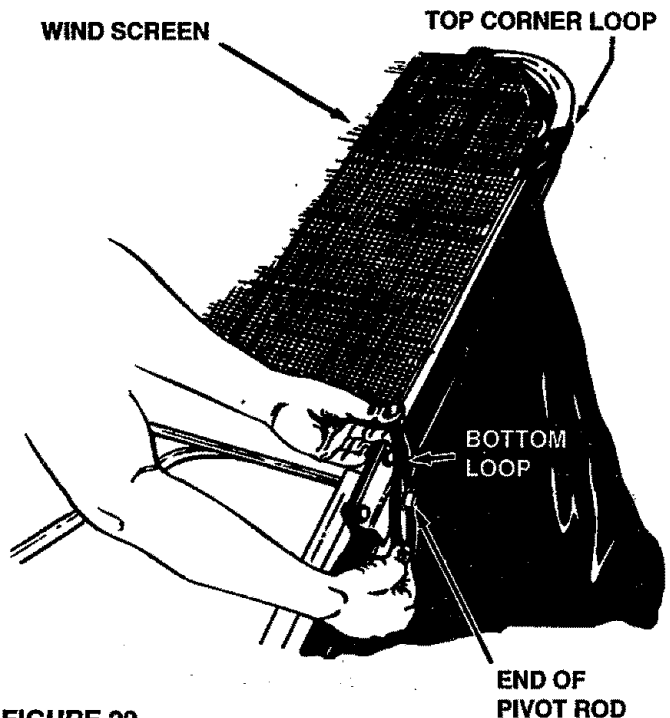


FIGURE 22

- To assemble the hopper bag to the sweeper, slide the ends of the bag arm tubes into the ends of the hitch tubes and secure with two 1/4" x 1-1/2" clevis pins and 3/32" hairpin cotters. See figure 23.

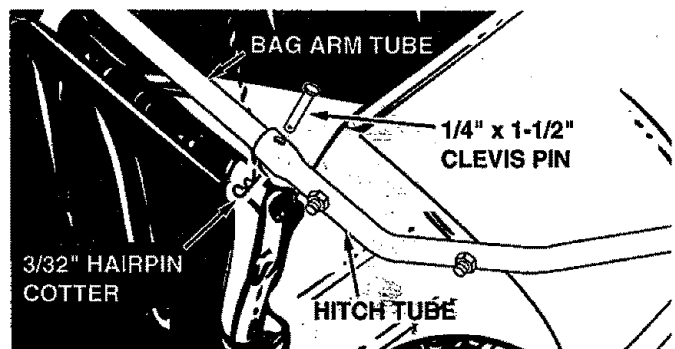


FIGURE 23

## ATTACHING SWEEPER HITCH TO TRACTOR

- Place the tractor and sweeper on a flat level surface.
- Set the sweeper height adjustment handle to about the middle of its adjustment range.
- Attach the sweeper hitch to the tractor hitch, arranging the 3/4" spacers in one of six possible combinations as shown in GROUP A and GROUP B diagrams below.

**IMPORTANT:** To obtain the best performance from your sweeper, arrange the spacers so that the sweeper bag is approximately level with the ground and approximately 5" to 7" off the ground as shown in figure 24.

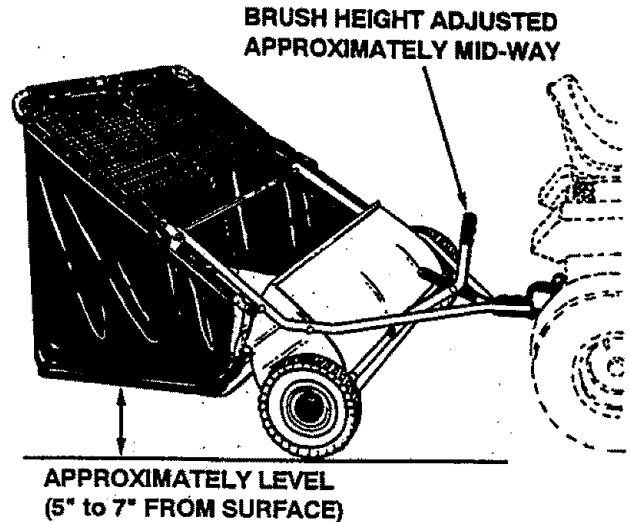
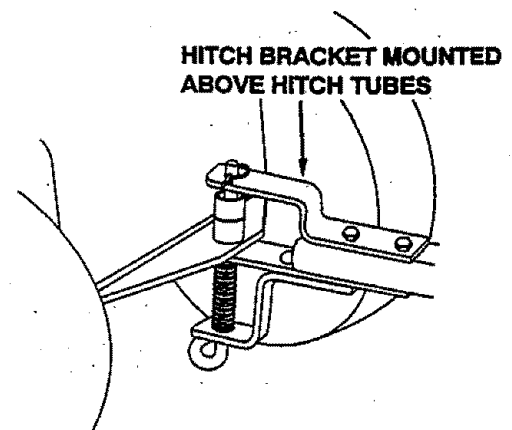
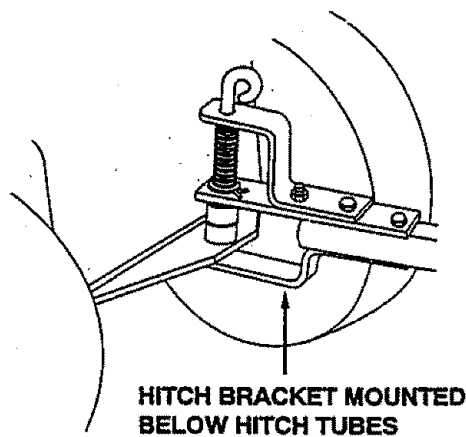


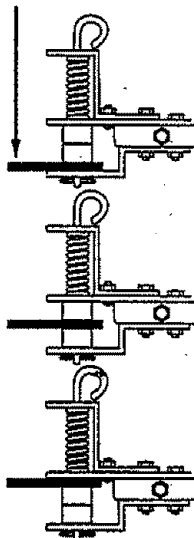
FIGURE 24

**GROUP "A"** - For vehicles with hitches having 8" to 10" ground clearance.

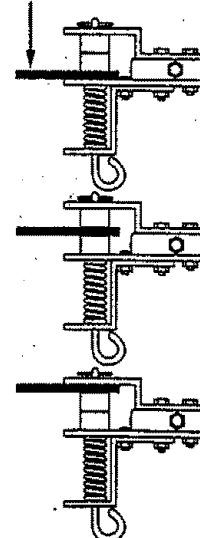
**GROUP "B"** - For vehicles with hitches having 10" to 13" ground clearance.



BLACK LINE IS TRACTOR HITCH

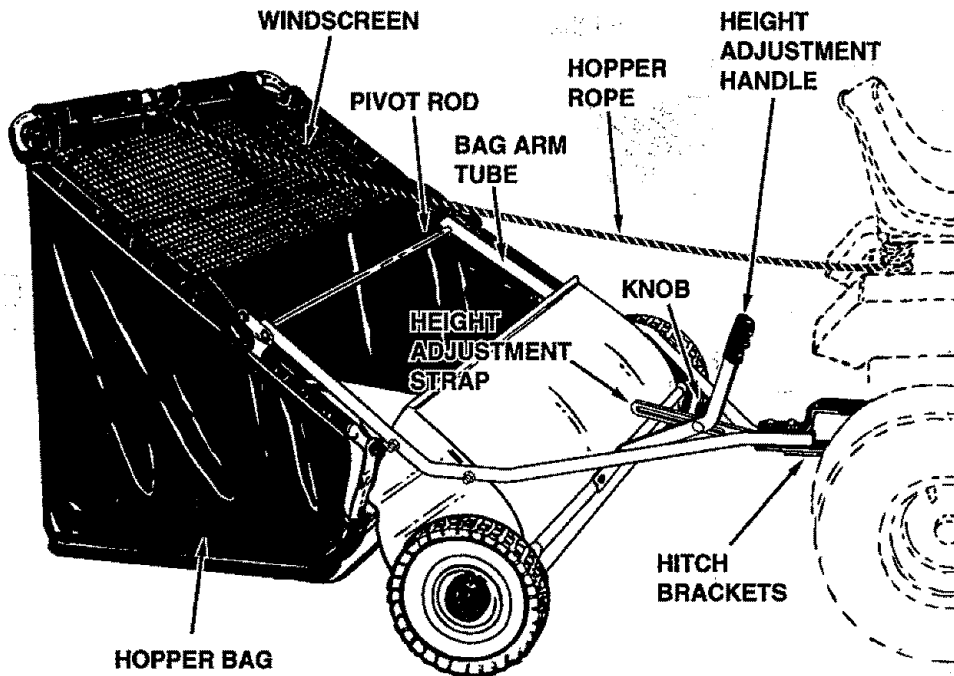


BLACK LINE IS TRACTOR HITCH



# OPERATION

## KNOW YOUR SWEEPER



Hopper Bag	Collects grass clippings, leaves and debris.
Hopper Rope	Permits dumping of hopper bag from driver's seat.
Windscreen	Helps prevent collected material from being blown out of hopper bag.
Bag Arm Tubes	Connects the hopper bag to the sweeper housing.
Pivot Rod	Allows hopper bag to tilt forward to dump material.
Height Adjustment Handle	Adjusts the operating height of the sweeper.
Height Adjustment Strap	Holds the height adjustment handle in position when locked.
Knob	Locks the height adjustment handle to the height adjustment strap.
Hitch Bracket	Connects the sweeper to the towing vehicle. Adjusts for various height tractor hitches.

## 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, or push up on the lever to lower the brush. See figure 24. 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, 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

- Read and follow the maintenance schedule and the procedures listed in the maintenance section.

MAINTENANCE SCHEDULE Fill in dates as you complete regular service.	Service Dates											
	Before each use	After each use	Twice a year	Every season	Before storage	Every two years						
Check for loose fasteners	X											
Check for worn or damaged parts	X		X									
Lubricate brush shaft bearings		X										
Lubricate wheel bearings			X									
Clean Sweeper		X		X								
Clean/Lubricate chain and sprockets					X							

## SCHEDULED MAINTENANCE

- Clean the sweeper after each use. Inspect for worn or damaged parts, such as brushes and wheels.
- Lubricate the brush shaft bearing twice a year with a few drops of light weight oil. See figure 25.

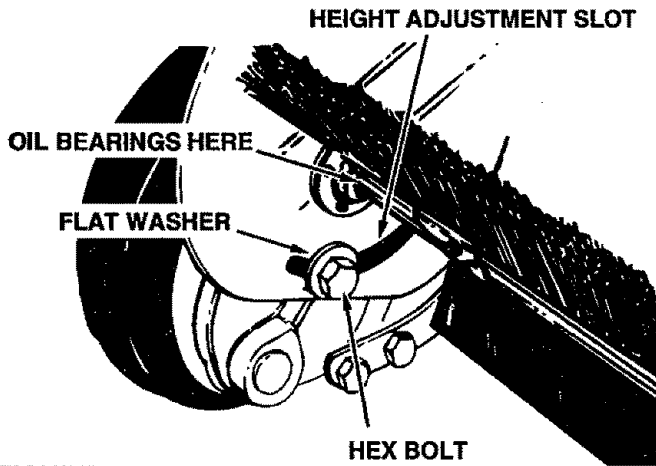


FIGURE 25

- Every two years, remove the wheels and clean the sprockets, chains and gears found inside the wheel housing. After cleaning, lubricate with an even coat of light grease. To remove the wheel, pop off the hub cap using a screwdriver and remove the lock nut and flat washer. See figure 26.

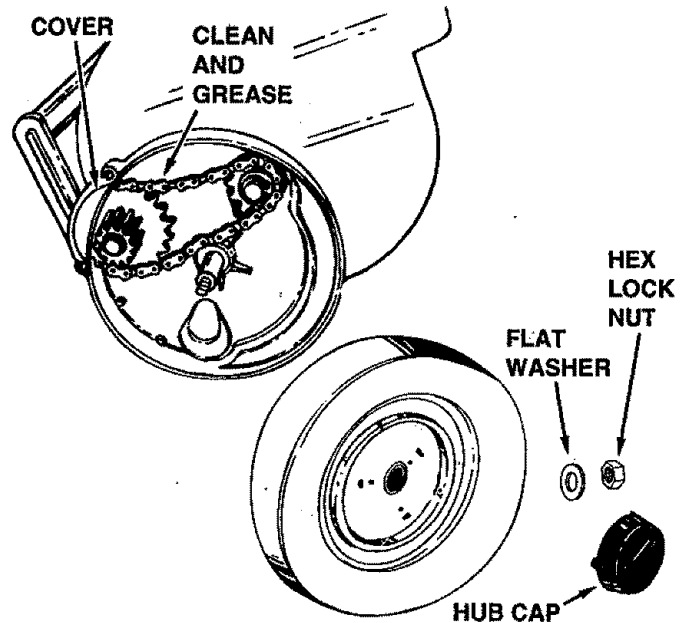


FIGURE 26

## CLEANING

- Clean sweeper housing with a soft brush or cloth.
- Clean debris from hopper bag with a brush or broom.
- Remove any material which has wrapped around brushes or ends of brush shaft.

## STORAGE



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

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

# SERVICE AND ADJUSTMENTS

## BRUSH REPLACEMENT

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

- Remove the hopper bag from the sweeper.
- 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. See figure 27.
- Slide the brush out of the retainers, noting on which side of the brush the bristles overlap. See figure 27.
- Install new brush, making sure the bristles overlap on the same side of the brush as before. See figure 27.

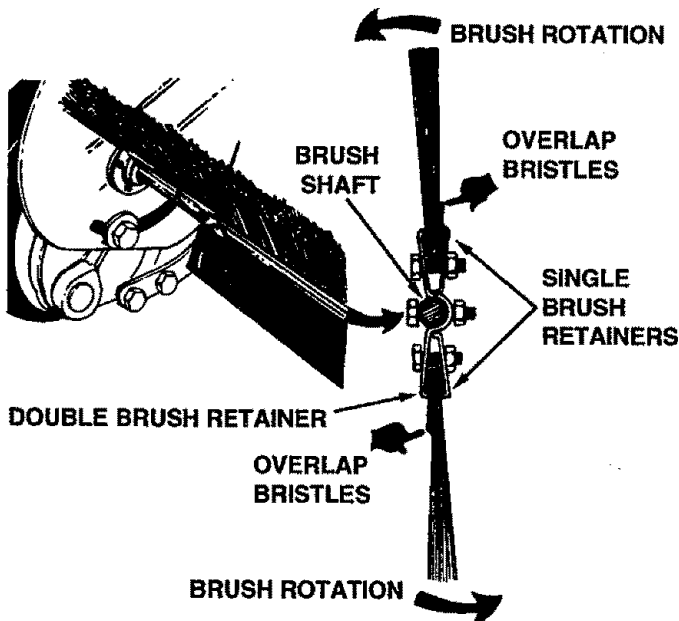


FIGURE 27

## SPROCKET, CHAIN 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 sprockets are not interchangeable.) **Make notes** on the position of washers and snap rings during disassembly.

- Remove the dust cover by removing the two rivets which fasten it to the wheel housing. (It is not necessary to remove the dust cover if you are only cleaning and lubricating the chain and sprockets.)
- Remove the retaining rings and washers which hold the sprockets onto the shafts.
- Remove the chain and both sprockets, holding them in position and sliding them off both of the shafts. (Look for the drive pin, which may fall out of the brush shaft when the ratchet sprocket is removed.) See figure 28.
- To reassemble, insert the drive pin through the hole at the end of the brush shaft. Make sure the pin slides back and forth easily in the shaft.
- Lightly grease both shafts and the chain, and fill the ratchet sprocket with grease. Assemble the chain with both sprockets back onto the shafts.
- Lightly grease the axle 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 and clean and lubricate the drive pin and ratchet gear.

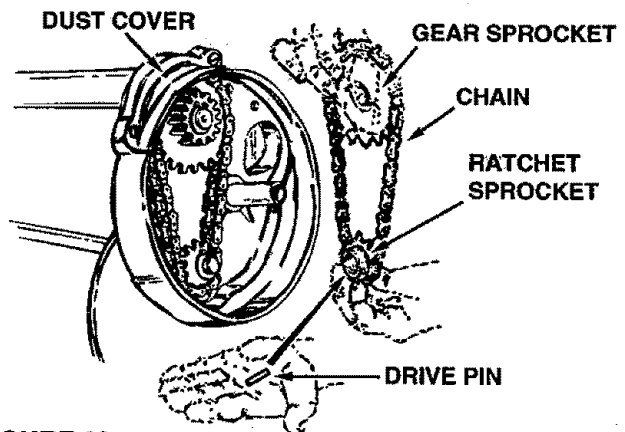


FIGURE 28

## TROUBLESHOOTING

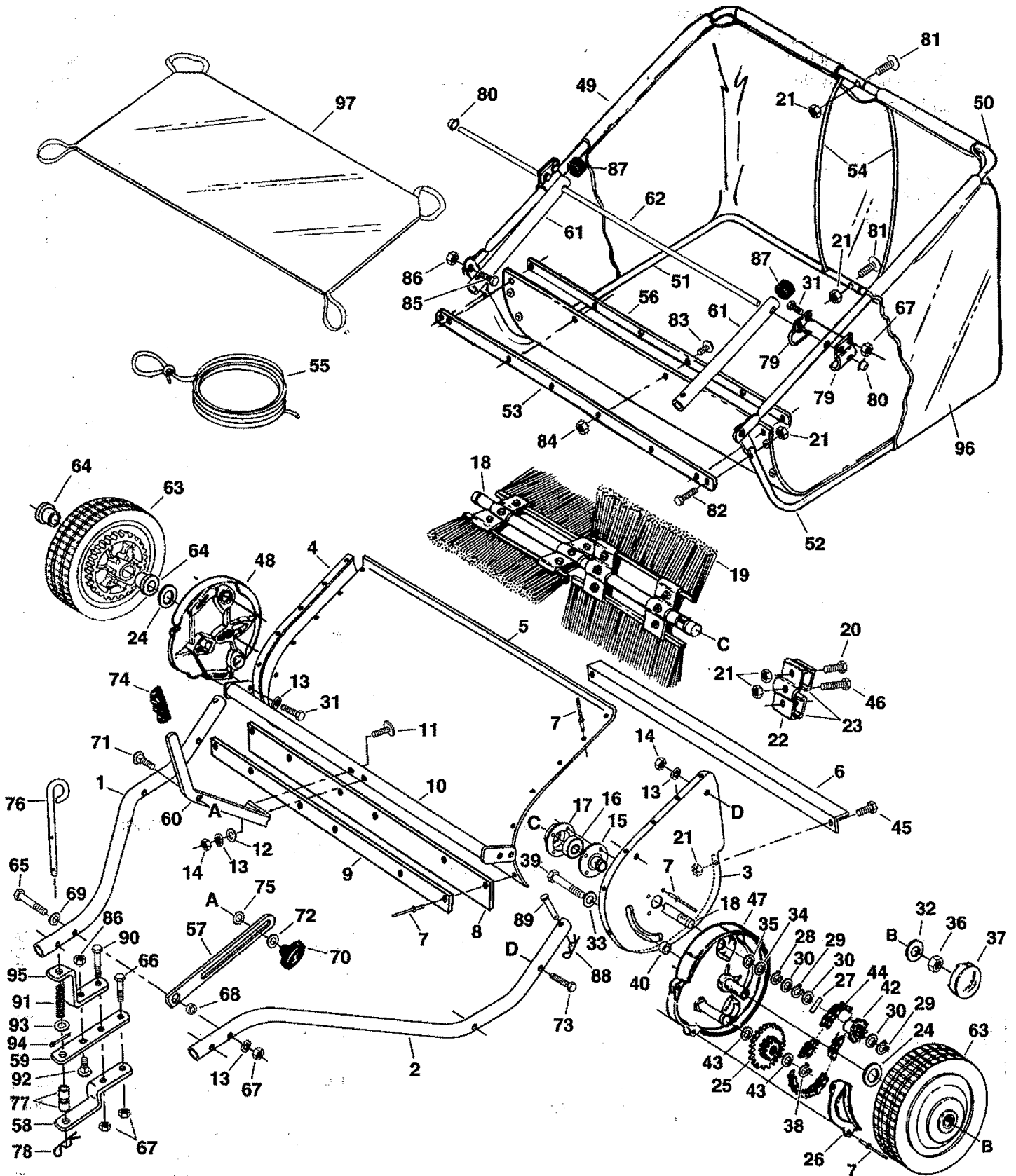
Wheels skid when sweeping.

- Brushes set too low.
- Brushes are jammed
- Wheels are jammed.

- Adjust height till brushes are 1/2" down into grass.
- Stop sweeper. Remove obstruction.
- Remove one wheel at a time to check for obstruction or damage. Refer to Service and Adjustments section.

# PARTS

## REPAIR PARTS FOR MODEL 486.24211 - 42" HIGH PERFORMANCE LAWSWEEPER



## REPAIR PARTS LIST FOR MODEL 486.24211 - 42" HIGH PERFORMANCE LAWSWEEPER

REF. NO.	PART NO.	QTY.	DESCRIPTION	REF. NO.	PART NO.	QTY.	DESCRIPTION
1	46776	1	Hitch Tube, R.H.	50	46735	1	Tube, Upper Hopper Frame L.H.
2	46777	1	Hitch Tube, L.H.	51	46732	1	Tube, Lower Hopper Frame R.H.
3	24195	1	End Plate, L.H.	52	46733	1	Tube, Lower Hopper Frame L.H.
4	24196	1	End Plate, R.H.	53	24189	1	Strap, Bag Frame
5	24184	1	Wrapper	54	43938	2	Rod, Hopper Support 34"
6	24185	1	Brace, Rear Support	55	43737	1	Hopper Rope
7	C-9M5732	30	Rivet, Pop	56	24190	1	Retainer, Bag
8	46778	1	Skirt, 42"	57	24191	1	Strap, Height Adjustment
9	24186	1	Retainer, Skirt	58	23687	1	Bracket, Hitch
10	63468	1	Height Adjustment Tube Ass'y.	59	24192	1	Bracket, Hitch (Straight)
11	44947	2	Bolt, Cvd. Hd. 5/16-18 x 1-5/8" Lg.	60	24193	1	Handle, Height Adjustment
12	44695	2	Washer, Bowed 1" x .32" x .06"	61	46781	2	Tube, Bag Arm
13	43086	12	Lock Washer, 5/16"	62	46823	1	Rod, Hopper Bag Pivot
14	43083	6	Nut, Hex 5/16-18 Thread	63	44985	2	Wheel & Tire Ass'y. (with bearings)
15	62489	2	Brush Bushing Ass'y.	64	45088	4	Wheel Bearing
16	44232	2	Ball Bearing	65	46782	2	Bolt, Hex 5/16-18 x 3" Lg.
17	1629-56	2	Retainer, Dust Cover	66	43224	1	Bolt, Hex 5/16-18 x 2-1/4" Lg.
18	24198	1	Brush Shaft	67	43064	8	Nut, Hex Lock 5/16-18 Thread
19	46780	4	Brush, 42"	68	46847	1	Bushing, Spacer
20	43012	8	Bolt, Hex 1/4-20 x 3/4" Lg.	69	R19111116	2	Washer, Flat (5/16) 11/32" x 11/16"
21	43013	18	Nut, Hex Lock 1/4-20 Thread	70	43720	1	Knob, Wing 5/16-18 Thread
22	23580	4	Retainer, Brush (Double)	71	43080	1	Bolt, Carriage 5/16-18 x 3/4" Lg.
23	23581	8	Retainer, Brush (Single)	72	43081	1	Washer, Flat 5/16" Std. Wrt.
24	44008	2	Washer, Flat 1-1/8" x .78" x .025"	73	43084	4	Bolt, Hex 5/16-18 x 1-3/4" Lg.
25	62490	2	Sprocket / Gear	74	43943	1	Grip, Height Adjust
26	23573	2	Dust Cover	75	44732	1	Washer, Tooth Lock 5/16"
27	47046	2	Dowel Pin (Drive)	76	46816	1	Pin, Hitch
28	43655	2	Ring, Retaining 3/4"	77	23368	2	Tube, Hitch Spacer
29	1650-21	4	Ring, Retaining .594"	78	43343	1	Hairpin Cotter, 1/8" #4
30	44007	6	Washer, Shim 1-1/8" x .594" x .025"	79	23331	4	Clamp, Hopper Mount
31	43182	8	Bolt, Hex 5/16-18 x 3/4" Lg.	80	44917	2	Palnut, 3/8"
32	141	2	Washer, Flat 1-1/2" x .375" x .062"	81	43978	2	Bolt, Cvd. Hd. 1/4-20 x 1" Lg.
33	43070	2	Washer, 3/8" Std. Wrt.	82	1509-90	2	Bolt, Hex 1/4-20 x 1-1/4" Lg.
34	1540-31	2	Washer, Flat .78" x 1.25" x .06"	83	43346	6	Bolt, Sl. Tr. Hd. #10-32 x 5/8" Lg.
35	1540-107	2	Washer, Flat .78" x 1.25" x .031"	84	43662	6	Nut, Hex Lock #10-32 SEMS
36	1038	2	Nut, Hex Lock 3/8-24 Thread	85	43407	2	Bolt, Hex 3/8-16 x 3/4" Lg.
37	2674-32	2	Hub Cap	86	43082	3	Nut, Hex Lock 3/8-16 Thread
38	43894	2	Ring, Retaining 1/2"	87	44481	2	Cap, Vinyl
39	43932	2	Bolt, Hex 3/8-24 x 3-1/2" Lg.	88	43055	2	Hairpin Cotter, 3/32" #3
40	23400	2	Bushing, Spacer	89	46867	2	Pin, Clevis 1/4" x 1-1/2" Lg.
41	43890	1	Sprocket, Ratchet R.H. (not shown)	90	44292	1	Bolt, Hex 5/16-18 x 2-1/2" Lg.
42	43889	1	Sprocket, Ratchet L.H.	91	44230	1	Spring, Hitch Pin
43	44137	4	Washer, 1/2" x 1" x .02"	92	43350	1	Bolt, Carr. 3/8-16 x 1" Lg.
44	44542	2	Chain, Roller	93	43070	1	Washer, 3/8" Std. Wrt.
45	43175	2	Bolt, Hex 1/4-20 x 1/2" Lg.	94	142	1	Pin, Cotter 1/8" x 3/4" Lg.
46	43661	4	Bolt, Hex 1/4-20 x 1" Lg.	95	23684	1	Bracket, Hitch Pin
47	62791	1	Housing, Wheel Drive Ass'y. L.H.	96	46819	1	Hopper Bag
48	62792	1	Housing, Wheel Drive Ass'y. R.H.	97	46739	1	Wind Screen
49	46734	1	Tube, Upper Hopper Frame R.H.		46821	1	Owners Manual

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