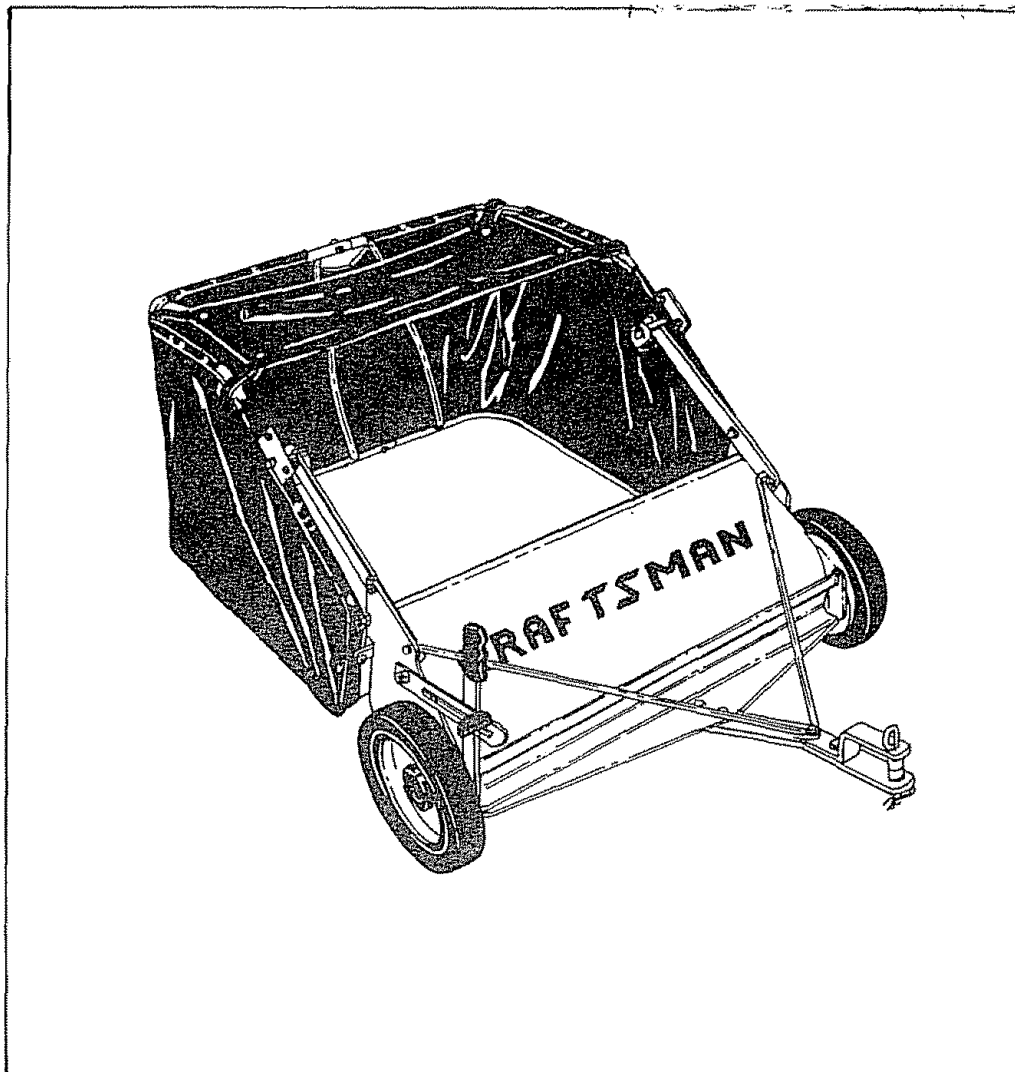


# SEARS

owners  
manual

Model No.  
486.240320



## 32" CRAFTSMAN LAWN SWEEPER

**CAUTION:**  
Read Rules for  
Safe Operation  
and Instructions  
Carefully

- Assembly
- Operation
- Maintenance
- Repair Parts

Sears, Roebuck and Co., Chicago, Ill 60684 U.S.A

# RULES FOR SAFE OPERATION

The following safety precautions are suggested. This lawn sweeper is designed, engineered and tested to offer reasonably safe and effective service, provided it is operated in strict accordance with these instructions. Failure to do so may result in personal injury. Always observe the rules for safe operation.

1. Do not allow anyone to operate the sweeper without proper instructions.
2. Do not permit children to operate sweeper.
3. Do not push or tow sweeper too close to a fire, because the hopper and brush will burn.
4. Do not attempt to remove wire or string wrapped around brush while brush is rotating.

5. Operate sweeper at reduced speed on rough terrain, in ditches, and on hillsides to prevent tipping and loss of control. Stay alert for holes or other hidden hazards.
6. This sweeper is not meant for street or highway use. Watch for traffic when sweeping near roadways.
7. Keep all nuts, bolts and screws tight to be sure equipment is in safe working condition.
8. Vehicle and attachments should be stopped and inspected for damage after striking a foreign object and damage should be repaired before restarting and operating the equipment.
9. Follow maintenance instructions as outlined in this manual.

Your lawnsweeper carton and inner pack parts carton contains parts as shown in the figure below. The hardware package contains two separate packages, see figures 1 and 2 on page 3. Identify all parts and layout as shown in the figure below and figures 1 and 2.

8. Lower Hopper Tube, Left Hand
9. Hopper Bag
10. Wind Screen

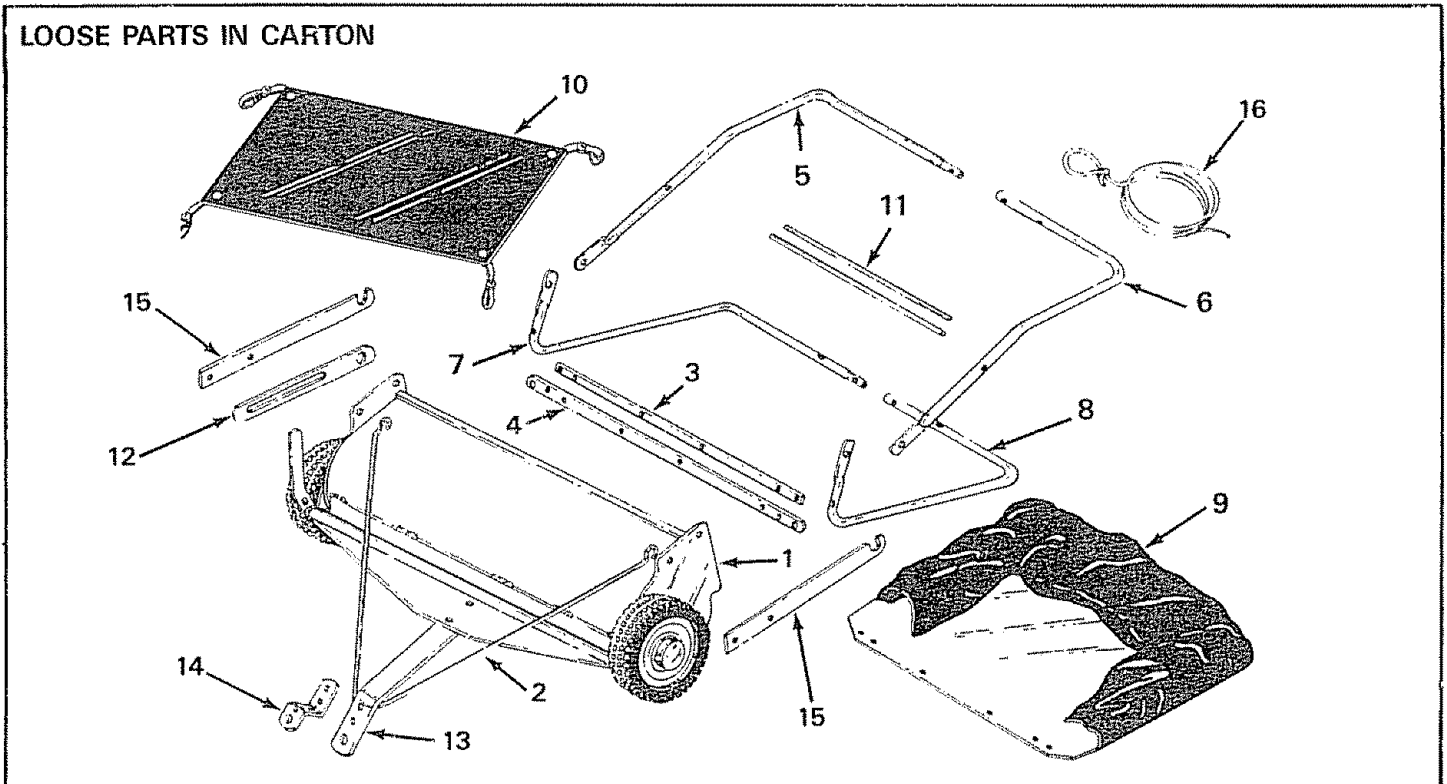
## CARTON CONTENTS

### Loose Parts in Carton

1. Sweeper Housing Assembly
2. Brace Rod
3. Bag Retainer Strap
4. Bag Frame Strap
5. Upper Hopper Tube, Right Hand
6. Upper Hopper Tube, Left Hand
7. Lower Hopper Tube, Right Hand

### PARTS IN INNER PACK CARTON:

11. Bag Support Rods (2) 3/16" Dia.
12. Height Adjustment Strap
13. Hitch Bar
14. Hitch Bracket
15. Hopper Mount Arms (2)
16. Rope
17. Hardware Package (Not Shown)



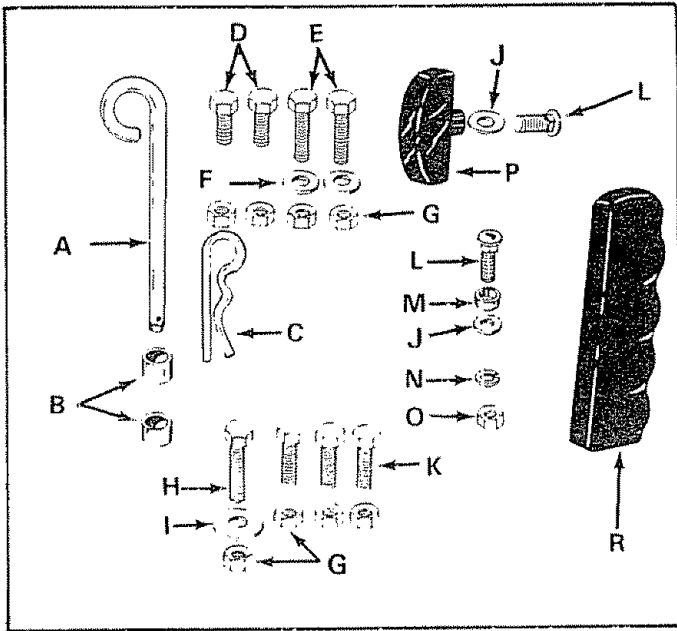


FIGURE 1

**CONTENTS OF HARDWARE PACKAGE: (Figure 1).**

**Sweeper Housing Assembly**

- A (1) Hitch Pin
- B (2) Spacers 1" Dia. x 3/4" Long
- C (1) Hairpin Cotter
- D (2) Hex Bolts 3/8"-16 x 3/4" Long
- E (2) Hex Bolts 3/8-16 x 1-1/4" Long
- F (2) Flat Washers 3/8" I.D.
- G (8) Hex Lock Nuts 3/8-16 Thread
- H (1) Hex Bolts 3/8-16 x 1-1/2" Long
- I (1) Flat Washer 17/32" x 1-1/2 x 10 Ga.
- J (2) Flat Washer 5/16" I.D.
- K (3) Hex Bolts 3/8-16 x 1" Long
- L (2) Carriage Bolt 5/16-18 x 3/4" Long
- M (1) Spacer 13/32 I.D. x 5/8" O.D. x 3/16" Thk.
- N (1) Lock Washer 5/16" I.D.
- O (1) Hex Nut 5/16-18 Thread
- P (1) Hand Knob
- R (1) Grip

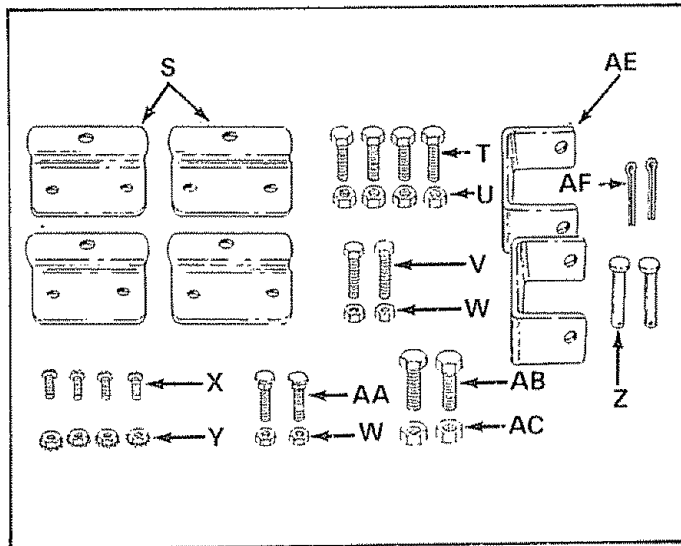
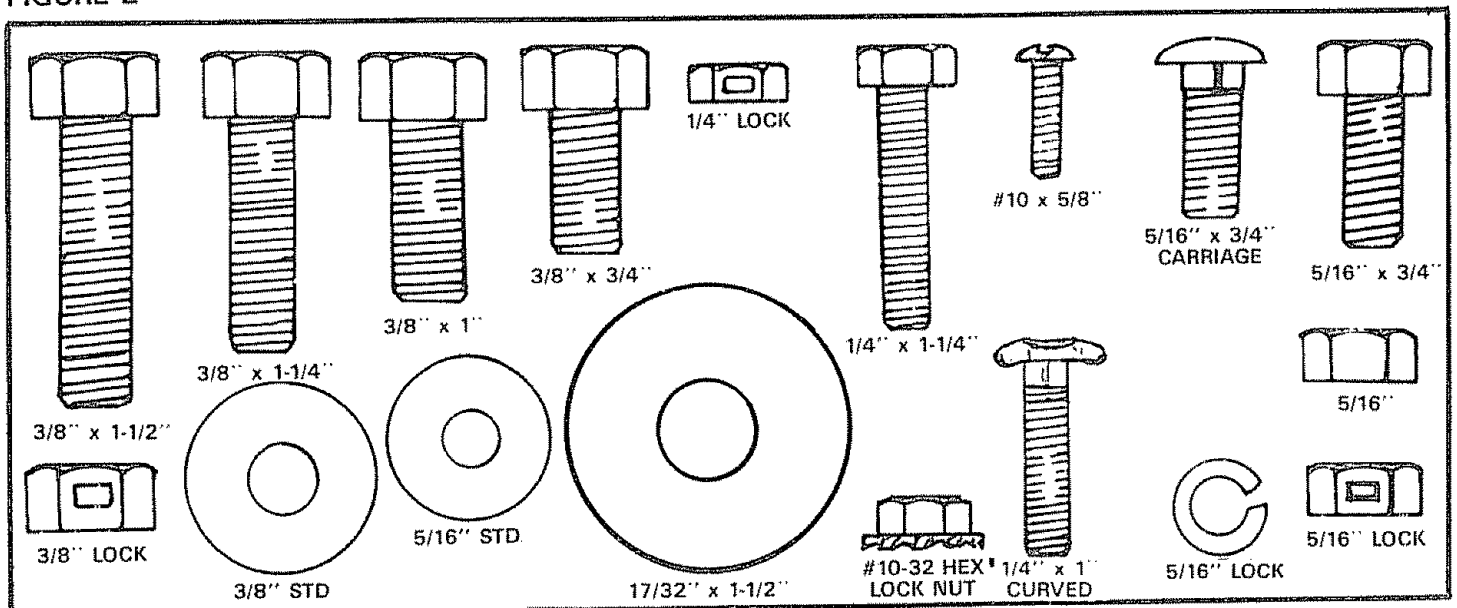


FIGURE 2

**CONTENTS OF HARDWARE PACKAGE: (Figure 2).**

**Hopper Bag Assembly**

- S (4) Hopper Mounting Clamps
- T (4) Hex Bolts 5/16-18 x 3/4" Long
- U (4) Hex Lock Nuts 5/16-18 Thread
- V (2) Hex Bolts 1/4-20 x 1-1/4" Long
- W (4) Hex Lock Nuts 1/4-20 Thread
- X (4) Truss (Slotted) Head Screws #10-32 x 5/8" Long
- Y (4) Hex Lock Nuts #10-32 Thread
- Z (2) Clevis Pins 3/8" x 3" Long
- AA (2) Curved Head Bolts 1/4-20 x 1" Long
- AB (2) Hex Bolts 3/8-16 x 3/4" Long
- AC (2) Hex Lock Nuts 3/8-16 Thread
- AE (2) Bag Retainer Clevises
- AF (2) Cotter Pins 1/8" x 3/4" Long



FULL SIZE HARDWARE REFERENCE CHART

# ASSEMBLY INSTRUCTIONS

## TOOLS REQUIRED

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

Refer to carton contents figure on page 2 and figure 1 on page 3 for parts and hardware needed to assemble sweeper housing.

1. Assemble the hitch bar to the sweeper housing, place hitch bar under sweeper housing as shown in figure 3, then secure hitch bar with two 3/8" x 1" hex bolts and 3/8" lock nuts. See figure 3. **Do not tighten at this time.**

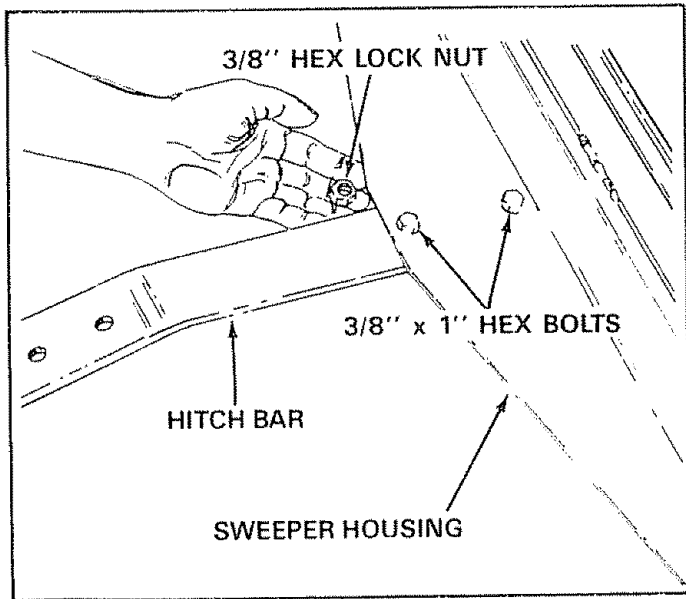


FIGURE 3



**Before assembling the hitch bracket to the hitch bar refer to figure 4 and page 10 to determine which position is required for your Sears riding mower or tractor.**

2. Assemble the hitch bracket to hitch bar with one 3/8" x 1" hex bolt (in the front hole) and 3/8" hex lock nut. **Do not tighten at this time.** See figures 4 and 5.
3. Assemble the hitch bracket with one 3/8" x 1-1/2" hex bolt (in the back hole), large flat washer and 3/8" hex lock nut. (**Do not tighten at this time**). See figures 4 and 5.

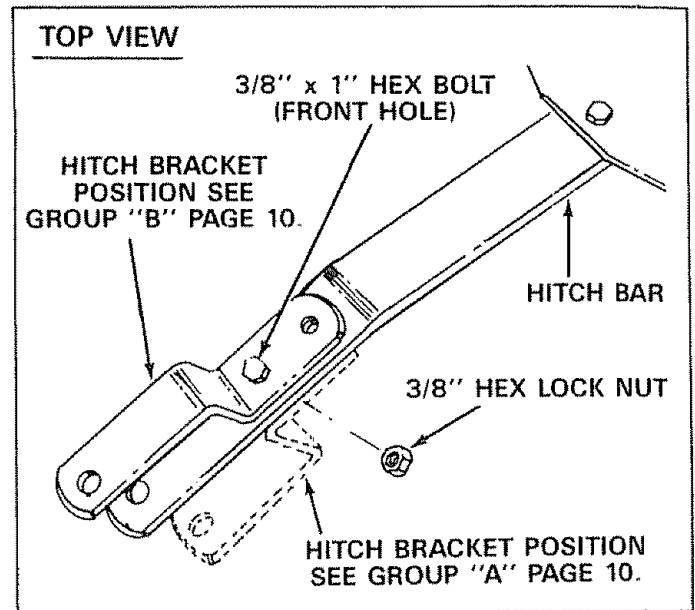


FIGURE 4

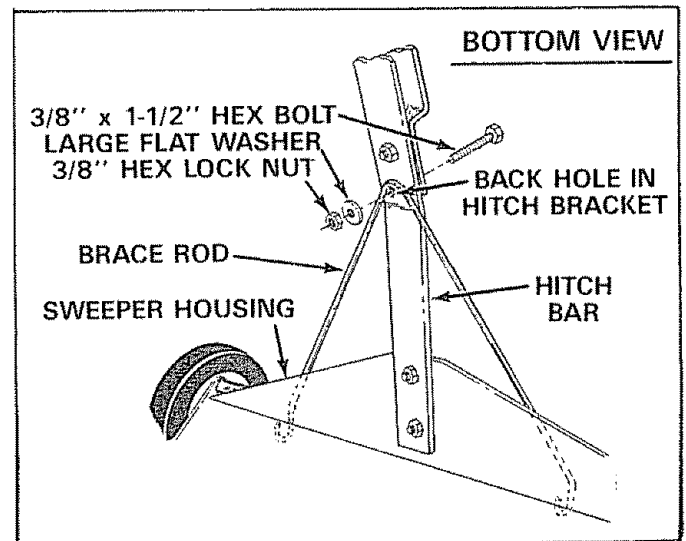


FIGURE 5



**Cut the plastic tie down holding height adjustment lever and move lever down.**

4. Assemble the two bag mount arms and top ends of brace rod. See figure 6. Assemble the top hole in arms to sweeper housing using two 3/8" x 3/4" hex bolts and 3/8" lock nuts. **The notched side of mount arms face upward and mount on the inside of housing. See figure 6.** Assemble the brace rod under hitch bar and large flat washer in back hole of hitch bracket and brace rod ends to bottom holes in arms and sweeper housing, using two 3/8" x 1-1/4" hex bolts, 3/8" flat washers and 3/8" hex lock nuts. See figures 5 and 6.
5. Now tighten hex bolts assembled in step 1, then all others assembled in steps 2, 3 and 4.

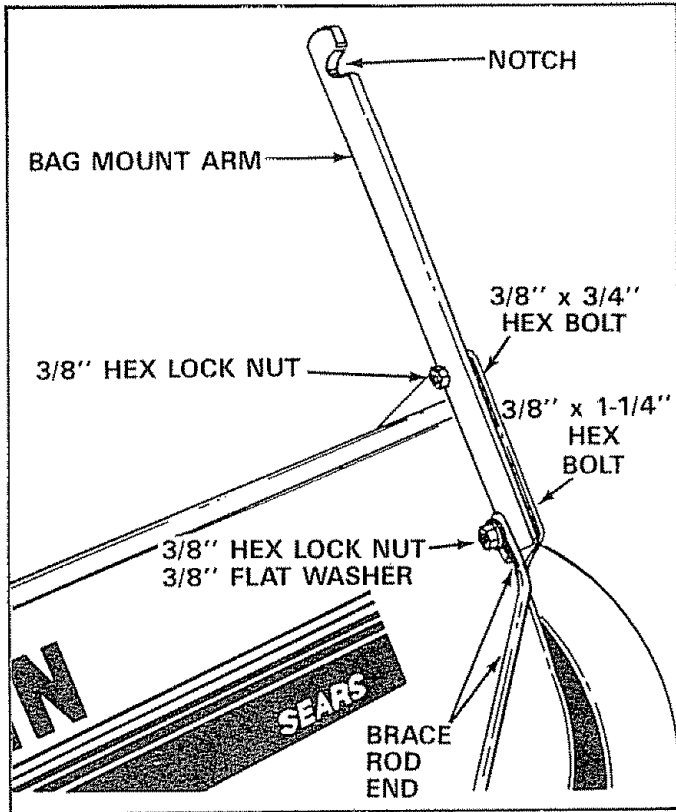


FIGURE 6

- Assemble the height adjustment strap (hole end) to the sweeper housing. See figure 7. Place 5/16" x 3/4" carriage bolt through the square hole in right hand side of sweeper housing. Next place spacer into large hole on strap and over end of carriage bolt. Secure with 5/16" flat washer, 5/16" lock washer and 5/16" hex nut. See figure 7

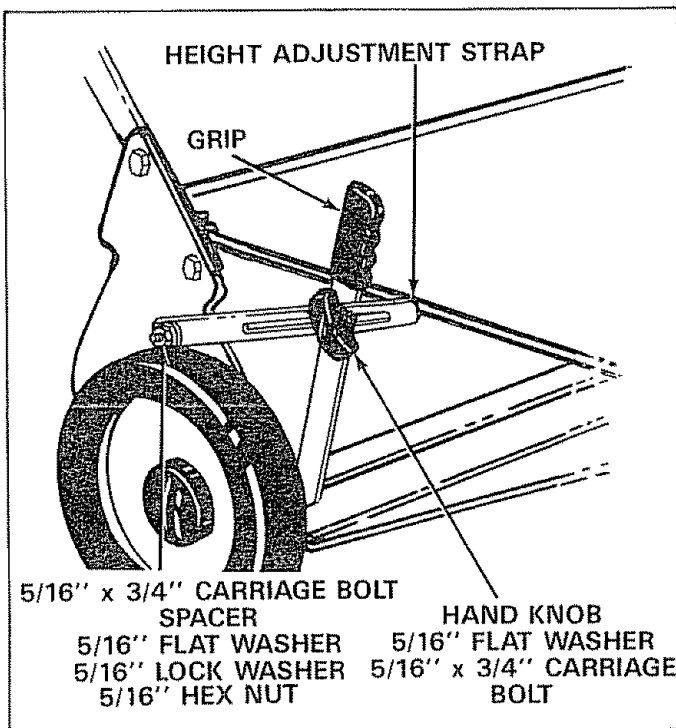


FIGURE 7

- Assemble other end of height adjustment strap to height adjustment handle. See figure 7. Place slot on strap in line with square hole in height adjustment handle. Secure strap with 5/16" x 3/4" carriage bolt, 5/16" flat washer and hand knob. See figure 7. **NOTE: Lightly coat slot with grease for ease of adjustment.**
- Assemble the grip, with finger knobs as shown, to the height adjustment handle. See figure 7.
- Assemble the hitch pin, two 1" Dia. x 3/4" long spacers and hairpin cotter to the hitch bracket and hitch bar. See figure 8. See page 10 for adjustment before connecting lawnsweeper to your Sears riding mower or tractor.

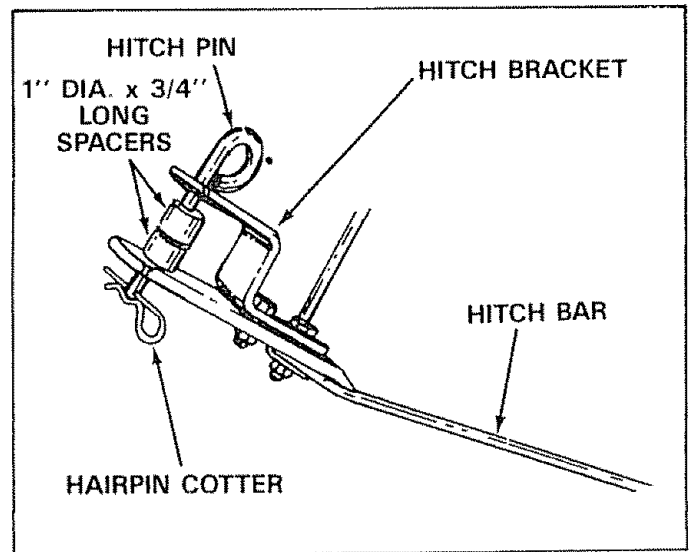


FIGURE 8

# ASSEMBLY OF HOPPER BAG

Refer to carton contents figure on page 2 and figure 2 on page 3 for hardware needed to assemble hopper bag. See page 2 to identify both upper and lower hopper tubes.

1. Insert the left hand upper hopper tube through the hopper bag stitched flaps, starting at the center cut out in the top of the hopper bag. See figures 9, 10 and 11. Repeat for the right hand upper hopper tube.

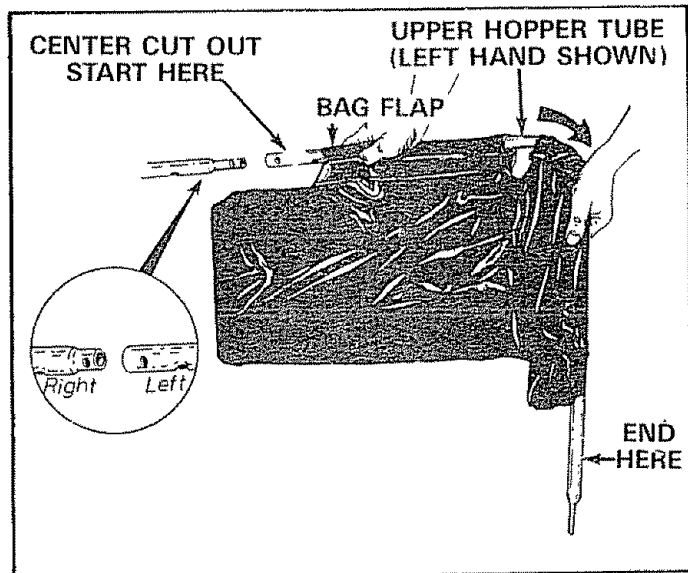


FIGURE 9

2. Locate the hole on side of both upper hopper tubes. See figure 10. The bag will require piercing at these holes in a later step. Refer to step 12 on page 8.

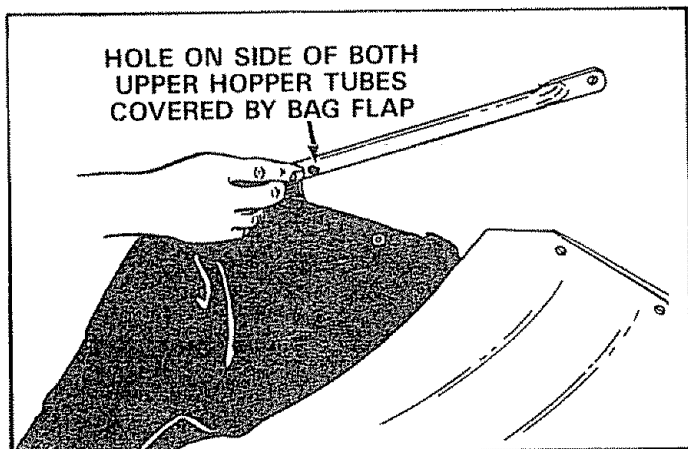


FIGURE 10

3. Slide the two upper hopper tubes together, as shown in figure 11. Line up the center holes.

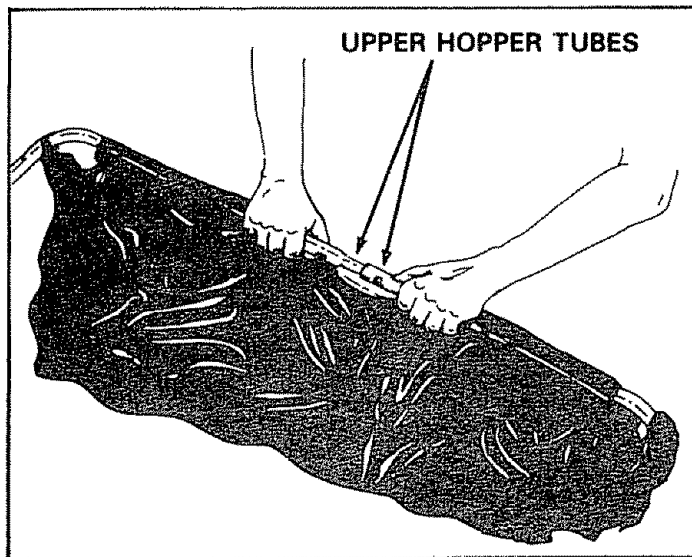


FIGURE 11

4. Secure the upper hopper tubes with 1/4" x 1" curved head bolt and 1/4" hex lock nut. See figure 12.

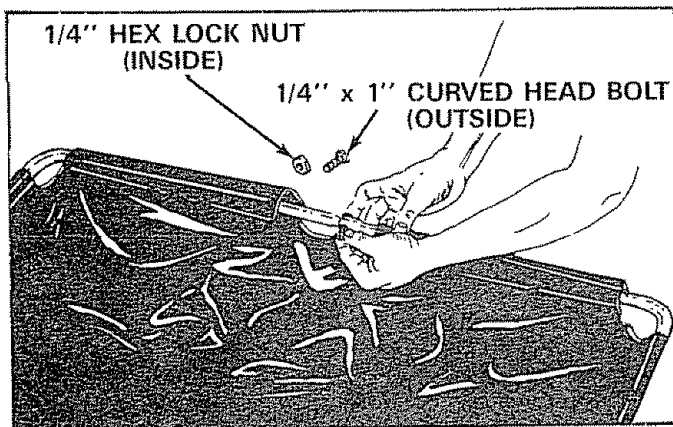


FIGURE 12

5. Assemble the two lower hopper tubes as shown in figure 13. Secure with 1/4" x 1" curved head bolt and 1/4" hex lock nut. See figure 13.

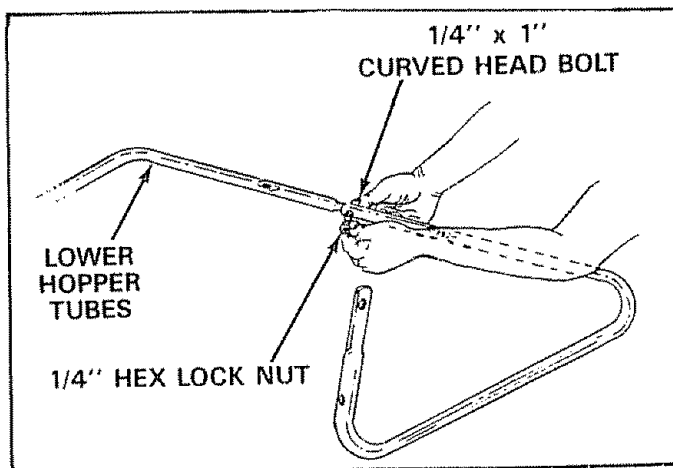


FIGURE 13

- Place assembled lower hopper tubes into bottom of hopper bag. See figure 14.
- Assemble the upper and lower hopper tube ends together with two 3/8" x 3/4" hex bolts (inside) and 3/8" hex lock nuts (outside). See figure 14. Do not overtighten to allow for pivot.

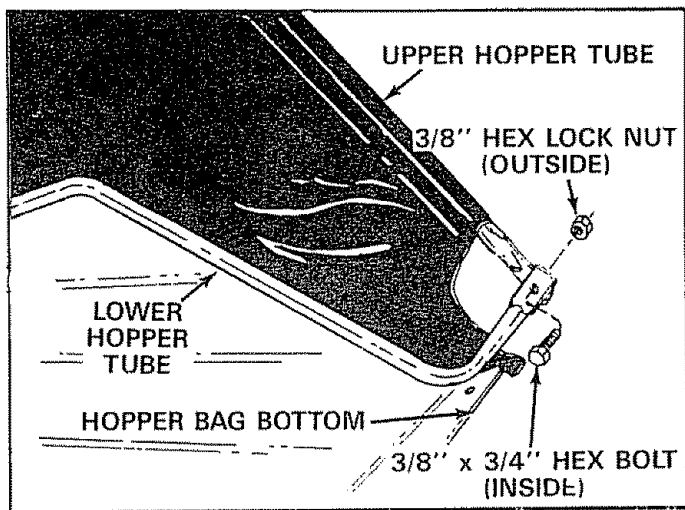


FIGURE 14

- Assemble the bag frame strap (bottom) and bag retainer (top) to the front edge of bag bottom. Place the bag retainer on top and frame strap on bottom. Secure with four #10 x 5/8" slotted screws and #10-32 hex lock nuts. See figure 15.

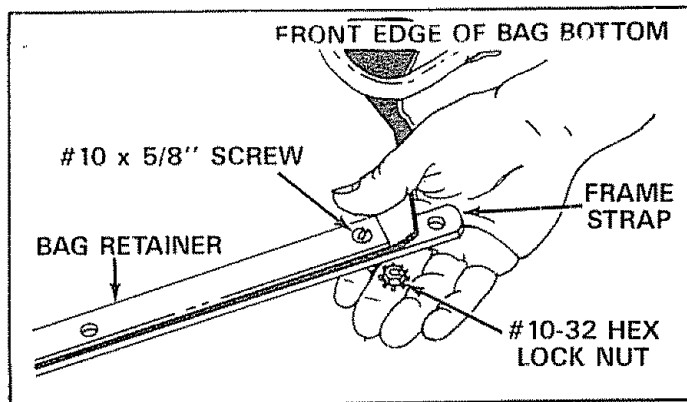


FIGURE 15

- Assemble the frame strap to the lower hopper frame. Secure with 1/4" x 1-1/4" hex bolts and 1/4" lock nuts. See figure 16.

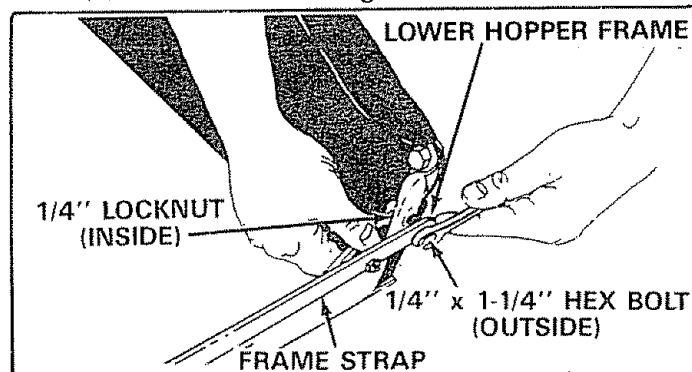


FIGURE 16

- Secure the bag corners over lower hopper tube by snapping the flap to bag bottom on each side. See figure 17.

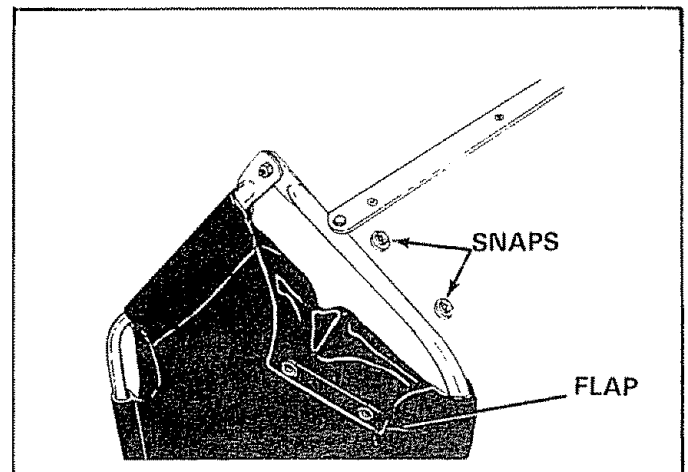


FIGURE 17

- Assemble the two hopper support rods as shown in figures 18 and 19. Place top end of rod into hole in upper tube and bend rod outwards and snap bottom end of rod into hole in bottom tube. **NOTE: Rods are spring steel and require bending or bowing as shown. Do not over bend and lose bag support tension.**

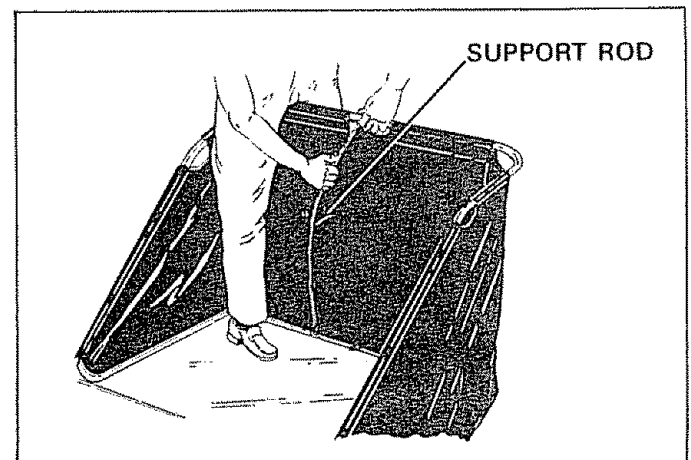


FIGURE 18

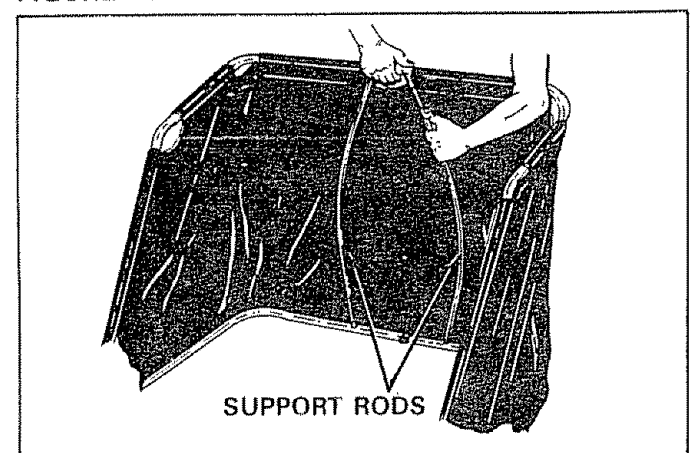


FIGURE 19

12. Locate hole along side of upper hopper tubes and pierce a hole through the bag aligned with the hole in the tube. See figure 20.

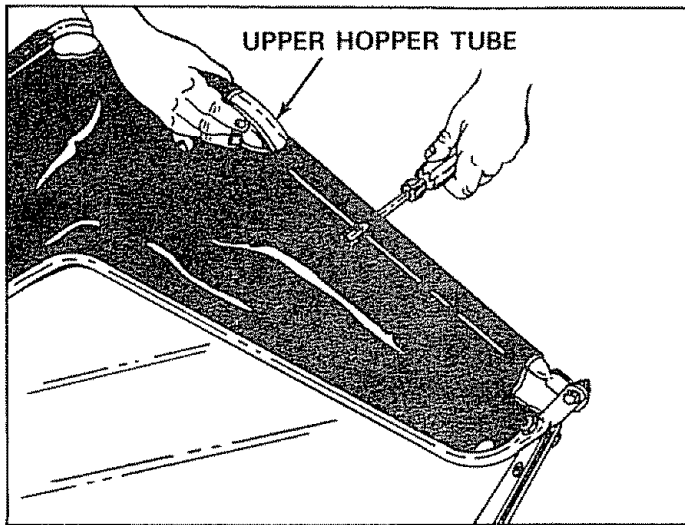


FIGURE 20

13. Assemble mount clamps to each side of upper hopper tube. Place one clevis pin through clamps, hopper bag and hopper tube, then secure clamps together with two 5/16" x 3/4" hex bolts and 5/16" lock nuts. See figure 21. Tighten securely.

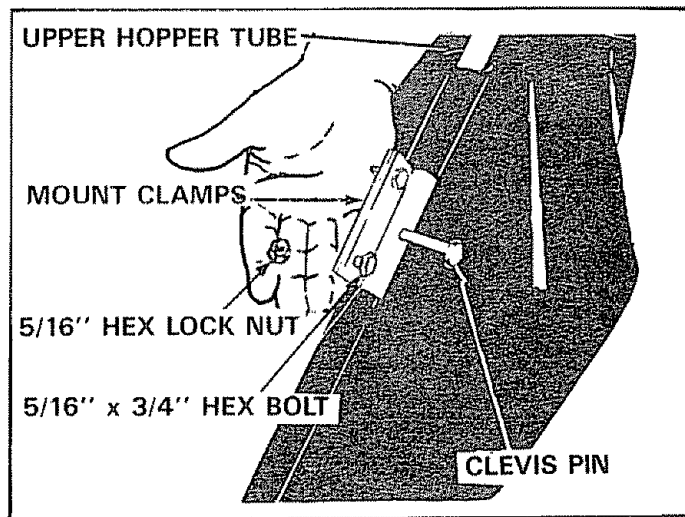


FIGURE 21

14. Repeat step 13 for other side.
15. Assemble the bag retainers to clevis pins. Secure with cotter pins. See figure 22.

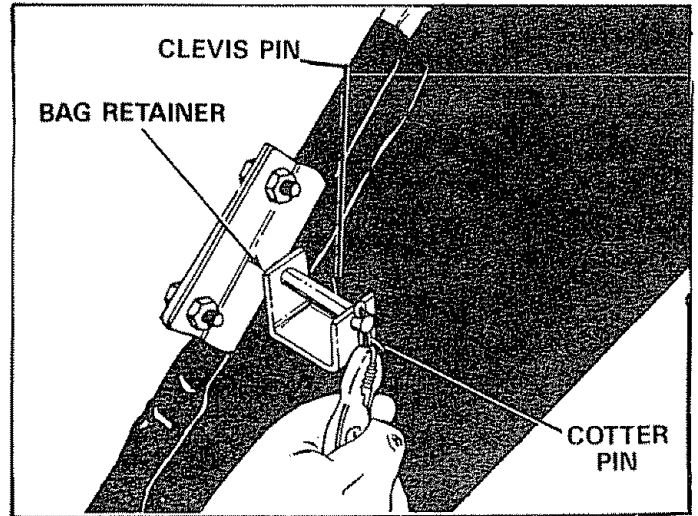


FIGURE 22

16. Secure the rope to the top center of hopper bag frame as shown in figures 23 and 24.

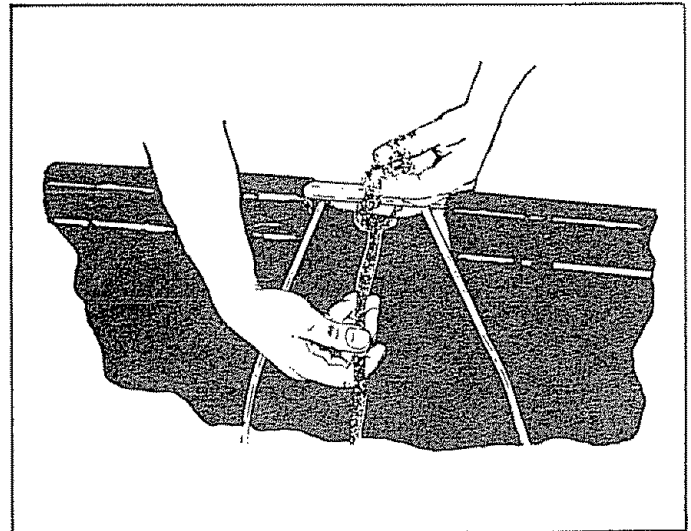


FIGURE 23

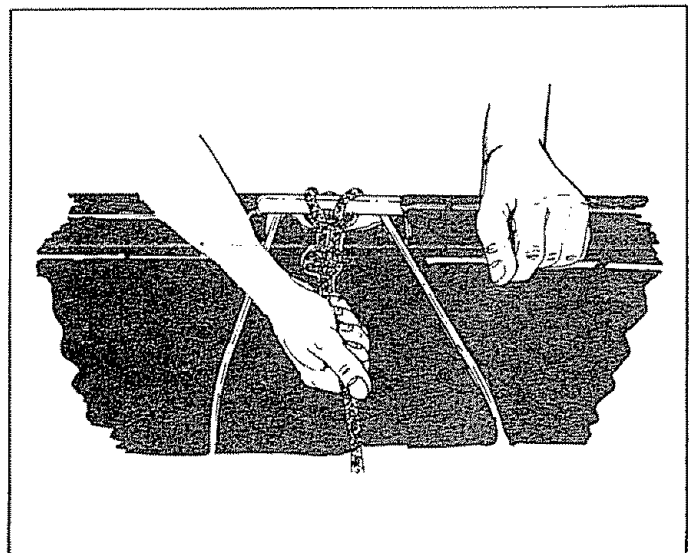


FIGURE 24



Bag retainers must pivot freely.



17. Assemble the wind screen to upper hopper tube. Pull the four corner loops and snap. See figures 25 and 26.

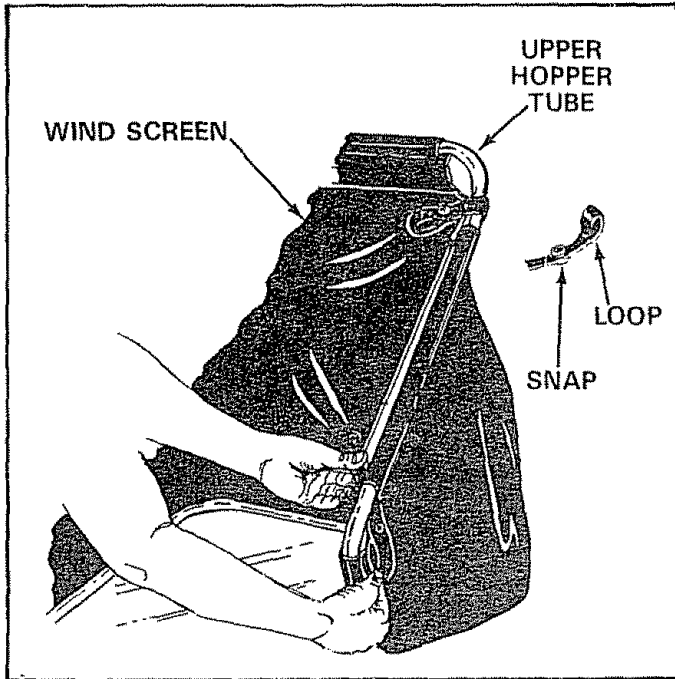


FIGURE 25

18. To assemble the hopper bag frame to the sweeper, simply hook the clevis pins into the notches in mount arms. Bag retainers must pivot freely to lock in position. See figure 26.

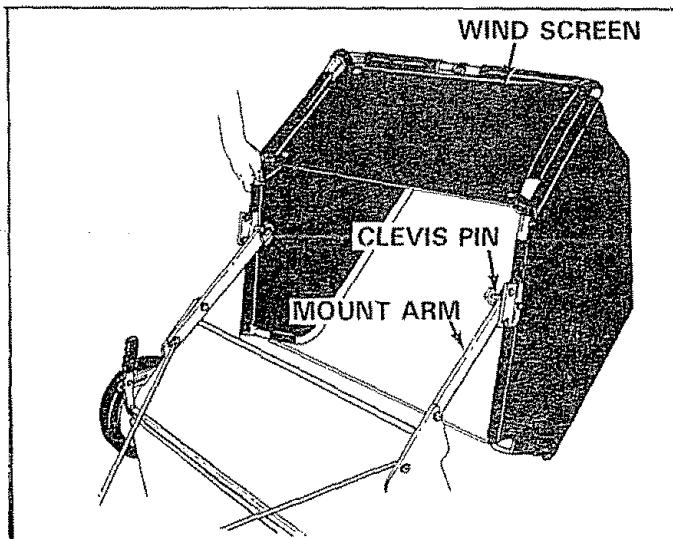


FIGURE 26

19. To remove the hopper bag frame from the sweeper, simply flip the bag retainers upward and remove the bag. See figure 27.

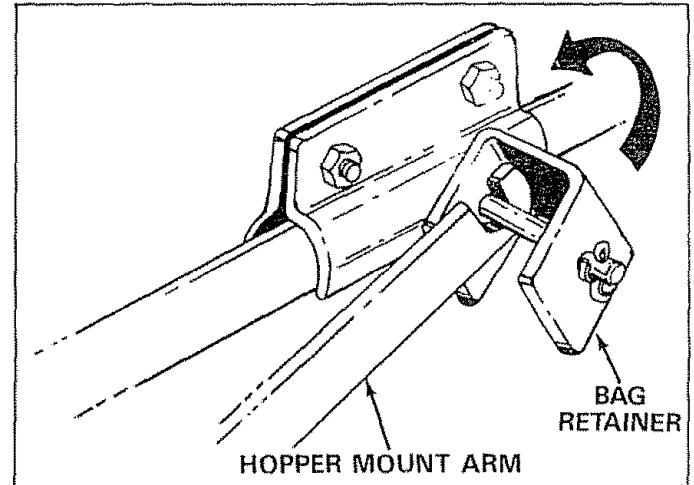


FIGURE 27



# IMPORTANT

TO ASSURE BEST PERFORMANCE OF YOUR NEW SWEEPER, THE FOLLOWING INSTRUCTIONS MUST BE READ CAREFULLY. SEE FIGURE 28. YOU MUST SET UP SWEEPER TO THE TOWING VEHICLE, SO BOTTOM OF BAG FRAME IS APPROXIMATELY LEVEL ON FLAT SURFACE, SUCH AS DRIVE OR WALK. THIS SHOULD KEEP BAG OFF THE GROUND APPROXIMATELY 3" TO 4"

LAWN TRACTORS IN TODAY'S MARKET VARY IN HEIGHT FROM GROUND TO HITCH APPROXIMATELY 8" TO 13" TO OBTAIN THE CORRECT SWEEPER BAG LEVEL, SEE FIGURE 28. THERE ARE EIGHT DIFFERENT SPACER POSITIONS AVAILABLE. SEE GROUPS A AND B.

**GROUP "A"** - For riding mowers with 8" to 10-1/2" ground clearance to hitch.

**GROUP "B"** - For tractors with 10-1/2" to 13" ground clearance to hitch.

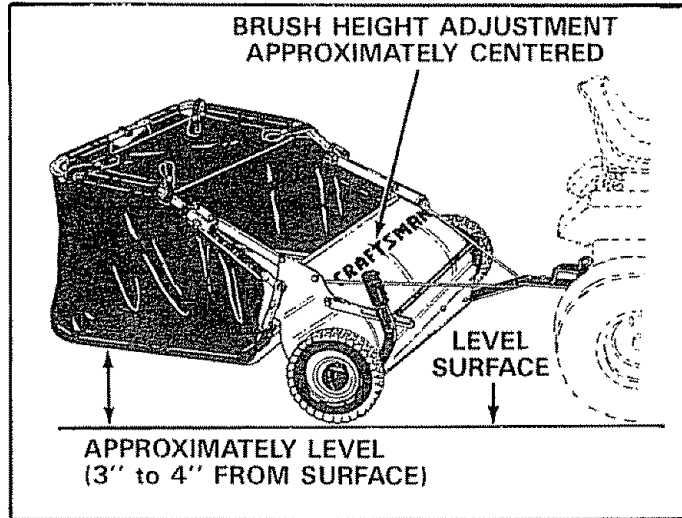
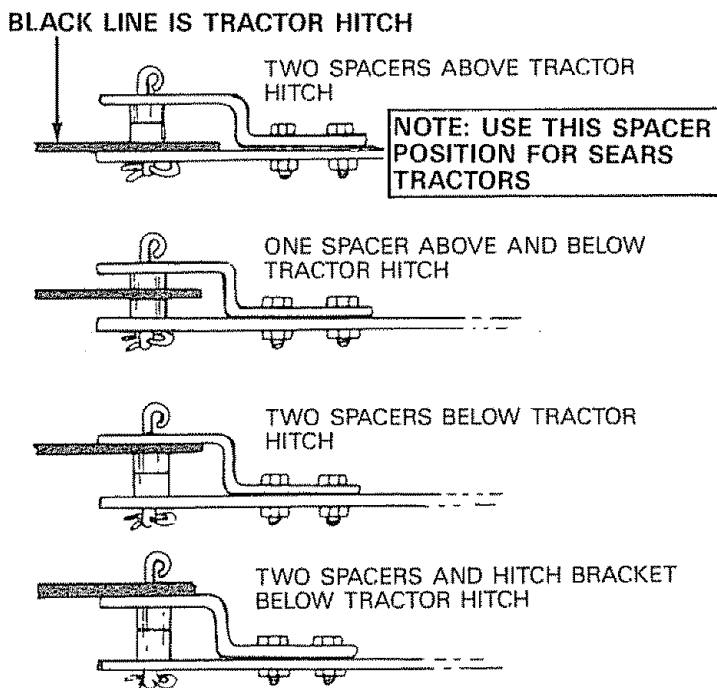
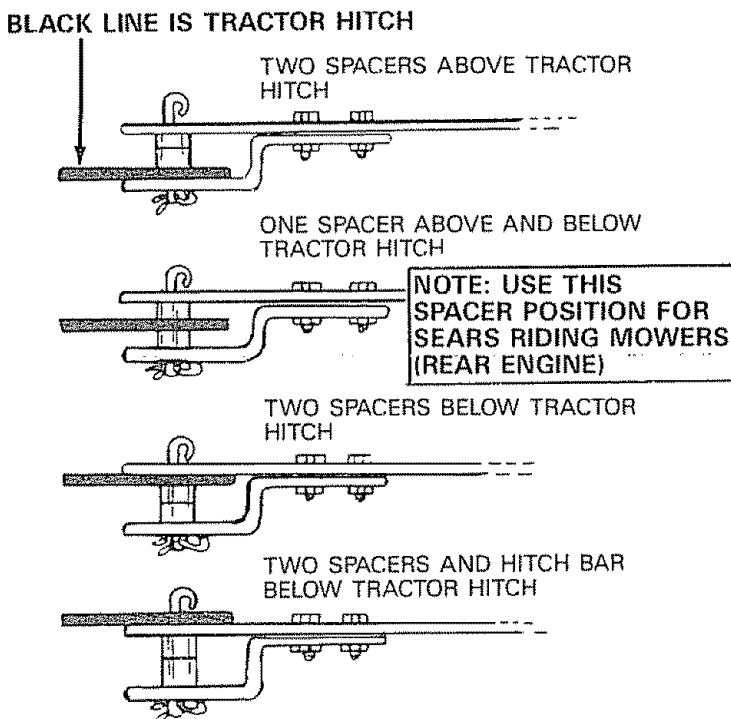
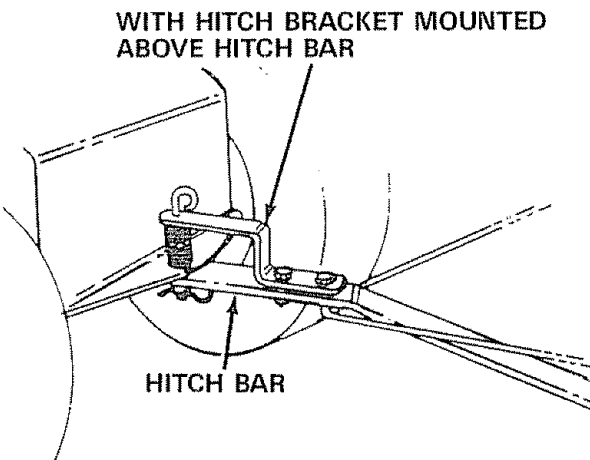
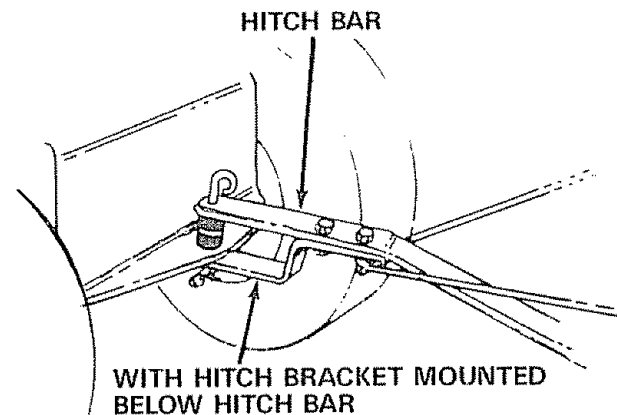


FIGURE 28

## OPERATION

Your sweeper is a precision piece of equipment. Engineering skill and experience have been combined to provide reasonable safety and efficiency. However, as with any type of mechanical equipment, carelessness or error on the part of the operator can result in damage to your equipment. Therefore, exercise care at all times and do not subject your sweeper to misuse.

### SWEEPING SPEED

Try sweeping at different speeds to find the one most suited to your conditions for maximum hopper bag fill.

### BRUSH HEIGHT ADJUSTMENT

To adjust your sweeper brushes to the best operating height, loosen the adjustment knob and push down on height adjustment lever to raise the brush. See figure 29. Best adjustment is when brush setting is 1/2" down into grass. Always mow the grass to an even height before sweeping.

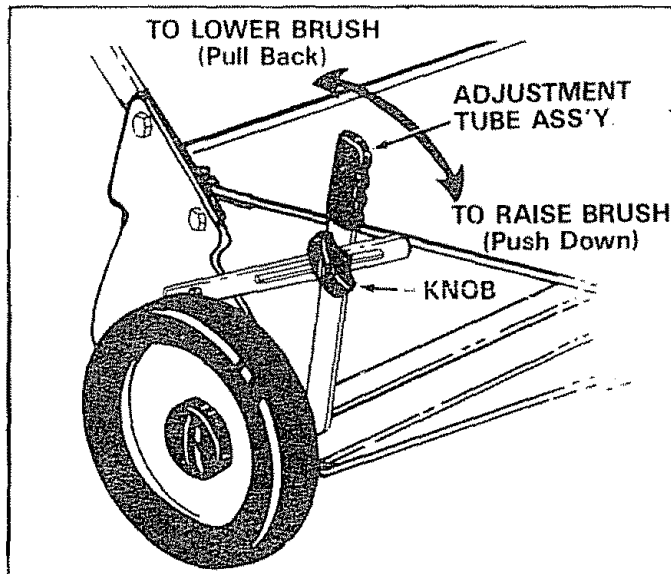


FIGURE 29

### DUMPING OF SWEEPER

Your sweeper can be dumped easily without getting off of the rider or tractor. Simply pull rope forward to dump. See figure 30. **SEE CAUTION NOTE A AND B.**

Always dump hopper after each use. Damp or wet grass and leaves will cause damage to hopper if stored for long period of time.



- A. **Do Not** fasten rope to pulling vehicle where it might become entangled with driving wheels or rotating parts.

- B. **Do Not** drive or dump the sweeper too close to a fire as the brushes and bag can be destroyed by excessive heat or flame.

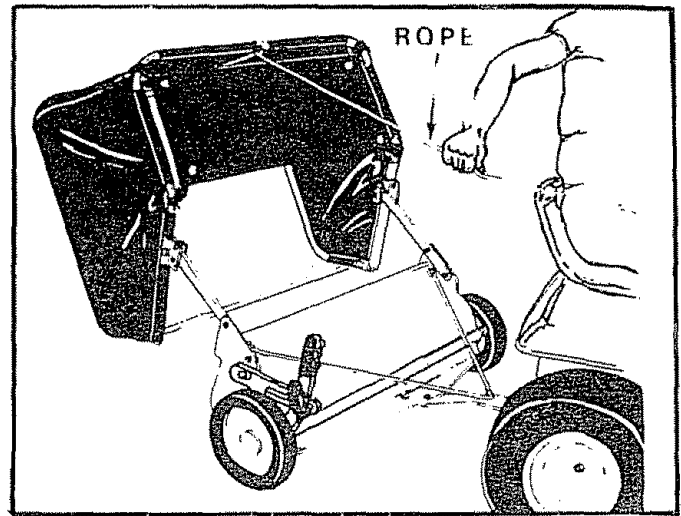


FIGURE 30

## STORAGE

The bag may be collapsed for storage. Remove the two support rods and fold bag down.

## LUBRICATION/MAINTENANCE

The bearings in the sweeper have been prelubricated at the factory; however, it is recommended that a few drops of light oil should be added to the brush shaft bearings twice a year. Also, the wheels should be removed to clean gears every two years. After cleaning apply an even coat of light grease. See figures 31, 32 and 33.

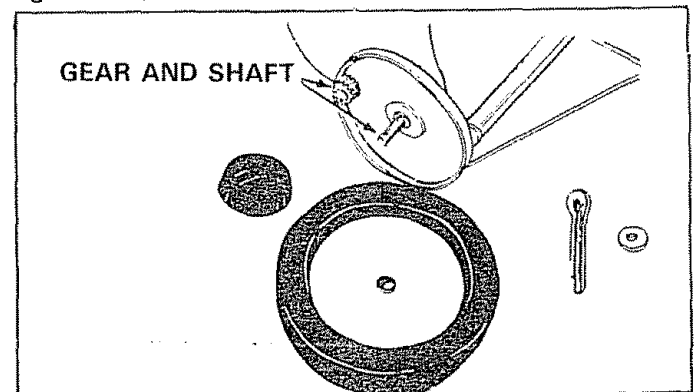


FIGURE 31



To remove the wheel just pop off hub cap with a screwdriver and remove cotter pin and flat washer. See figure 31.

## WHEEL GEARS/PAWL SERVICE

1. To service wheel gears, **Do Not Remove both wheels at the same time.** Remove one wheel at a time to prevent use of left hand parts on right hand side. **When removing gears make notes on position of all washers and snap rings.**
2. The pawl, inside ratchet gear, has a curved end (side) and a flat end (side). See figure 32. When re-assembling ratchet gear and pawl, fill the inside with grease. Re-assemble the wheel and turn wheel, if the brushes drive (rotate) in both directions, the pawl is assembled incorrectly, remove and flip pawl over. If the brushes drive (rotate) in one direction the pawl is assembled correctly.

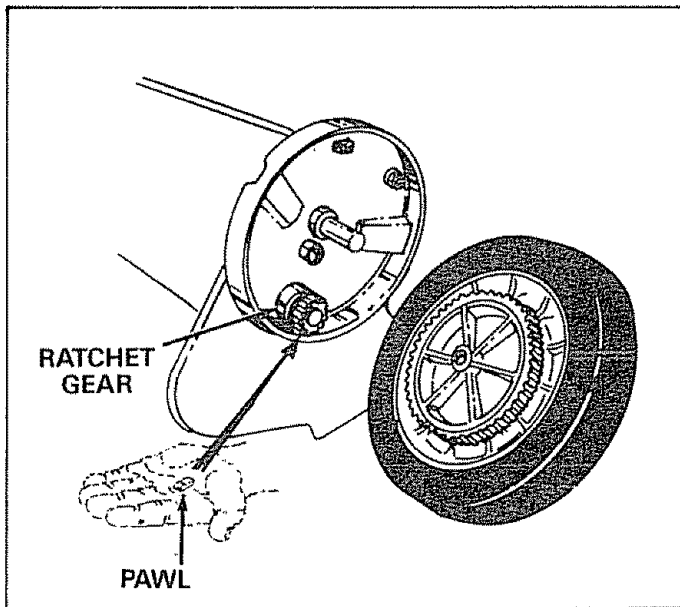


FIGURE 32

## BRUSH REPLACEMENT

1. Remove the hopper bag from lawnsweeper.
2. Brush replacement should be done one brush at a time.
3. Tip the sweeper back on housing for ease of brush replacement. **Do not remove hex bolts from double brush retainers through brush shaft.**
4. Loosen hex bolts and hex lock nuts from single brush retainers. See figure 33. **Slide brush out of retainers making note of over-lap bristles position.**
5. Install new brush, **making sure over-lap bristles are positioned the same as before and as shown in figure 33 (end view of brush).**

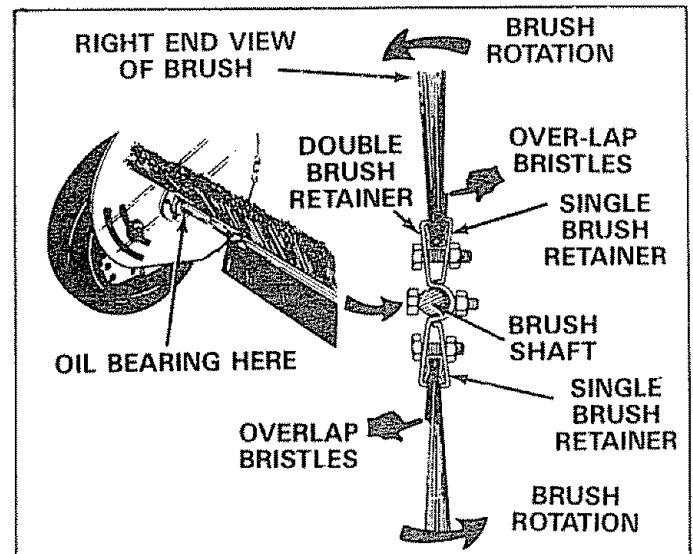
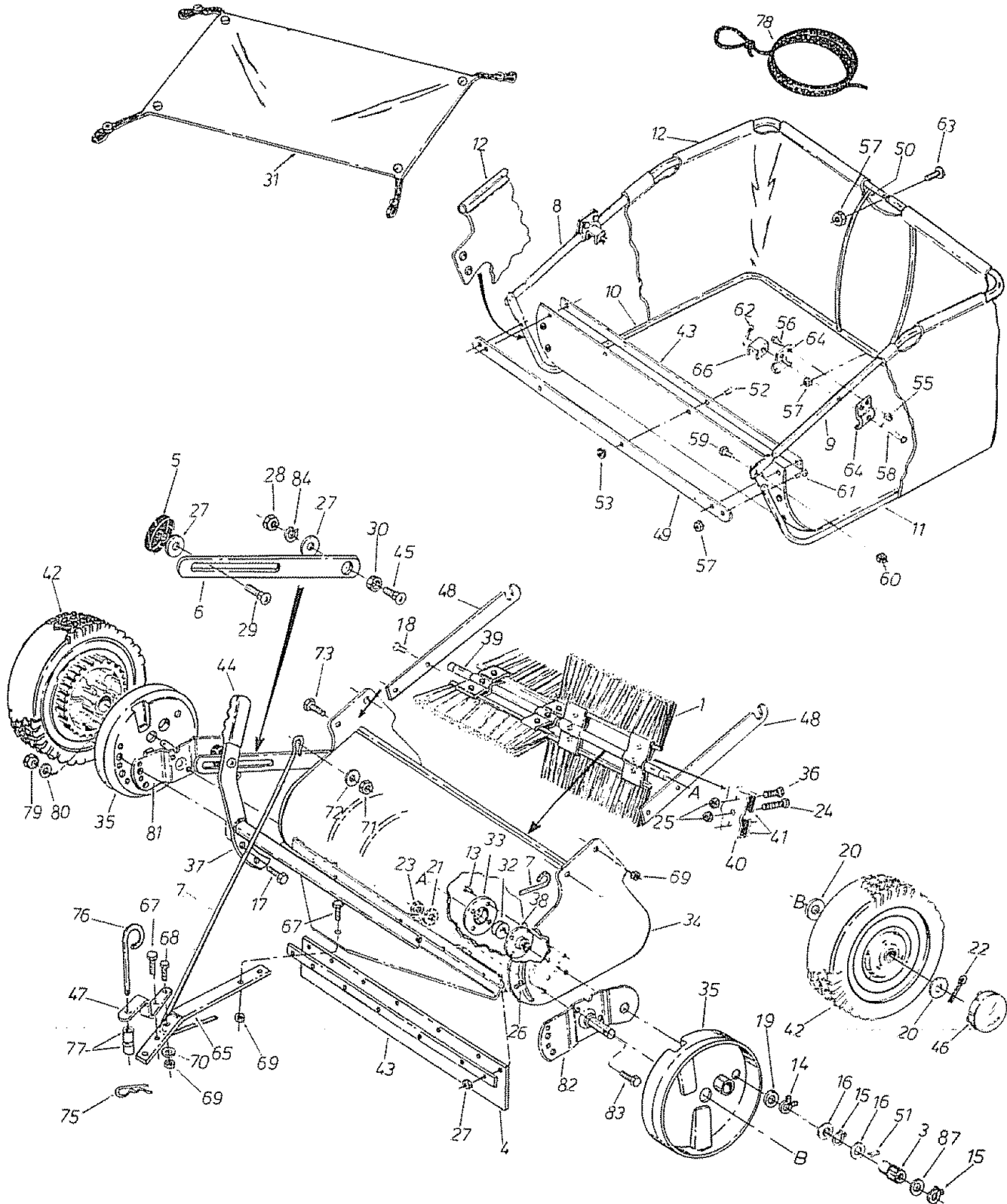


FIGURE 33

# NOTES

A large, empty rectangular box with a thin black border, occupying most of the page. It is intended for the user to write their notes.

# REPAIR PARTS FOR MODEL 486.240320 32" LAWN SWEEPER



**REPAIR PARTS LIST FOR MODEL 486.240320 32" LAWN SWEEPER**

REF. NO.	PART NO.	QTY.	DESCRIPTION	REF. NO.	PART NO.	QTY.	DESCRIPTION
1	43903	4	Brush	44	43943	1	Grip
2	43886	1	Pinion Gear—R.H. (Not Shown)	45	43080	1	Carriage Bolt 5/16-18 x 3/4" Lg.*
3	43885	1	Pinion Gear—L.H.	46	2674-32	2	Hub Cap
4	43645	1	Skirt	47	23014	1	Hitch Bracket
5	43720	1	Height Adjustment Knob	48	23330	2	Bag Mount Arm.
6	23387	1	Height Adjustment Strap	49	23351	1	Bag Frame & trap
7	43979	1	Brace Rod	50	43926	2	Wire Support
8	43928	1	Upper Hopper Tube-R.H.	51	1671-1	2	Pawl (H.T.)
9	43927	1	Upper Hopper Tube-L.H.	52	43346	4	Truss Hd. Slotted Scr. #10-32 x 5/8" Lg.
10	43930	1	Lower Hopper Tube-R.H.	53	43662	8	Hex Lock Nut #10-32 Thd.
11	43929	1	Lower Hopper Tube-L.H.	55	43064	4	Hex Lock Nut 5/16-18 Thd.
12	43956	1	Hopper Bag	56	43182	4	Hex Bolt 5/16-18 x 3/4" Lg.*
13	C-9M5732	8	Rivet	57	43013	4	Hex Lock Nut 1/4-20 Thd.
14	43655	2	Retaining Ring-3/4"	58	43513	2	Clevis Pin 3/8" Dia. x 3" Lg.
15	1650-21	4	Retaining Ring .594 I.D.	59	43407	2	Hex Bolt 3/8-16 x 3/4" Lg.*
16	44007	4	Fl.-Washer (Shim) .596 x 1.125 x .025	60	43082	2	Hex Lock Nut 3/8-16 Thd.
17	43182	4	Hex Bolt 5/16-18 x 3/4" Lg.*	61	1509-90	2	Hex Bolt 1/4-20 x 1-1/4" Lg.*
18	43407	2	Hex Bolt 3/8-16 x 3/4" Lg. (Gr. 5)	62	0142-000	2	Cotter Pin 1/8" Dia. x 3/4" Lg.*
19	44008	2	Fl.-Washer .783 x 1.125 x .025	63	43978	2	Curved Hd. Bolt 1/4-20 x 1" Lg.
20	44137	4	Fl.-Washer .51 x .990 x .020	64	23331	4	Hopper Mount Clamp
21	43081	2	Washer 5/16" Std.*	65	23349	1	Hitch Bar
22	0142-000	2	Cotter Pin 1/8" Dia. x 3/4" Lg.*	66	23354	2	Bag Retainer Clevis
23	43064	2	Hex Lock Nut 5/16-18 Thd.	67	43001	3	Hex Bolt 3/8-16 x 1" Lg. (Gr. 5)
24	43661	4	Hex Bolt 1/4-20 x 1" Lg.*	68	43062	1	Hex Bolt 3/8-16 x 1-1/2" Lg.*
25	43013	12	Hex Lock Nut 1/4-20 Thd.	69	43082	6	Hex Lock Nut 3/8-16 Thd.
26	1095	4	Truss. Slotted Hd. Scr. #10-32 x 1/2" Lg.	70	R19172410	1	Fl.-Washer 17/32 x 1-1/2"
27	43081	2	Washer, 5/16" Std.	71	43082	2	Hex Lock Nut 3/8-16 Thd.
28	43064	1	Hex Nut 5/16-18 Thd.	72	43070	2	Fl.-Washer 3/8" Std.
29	43080	1	Carriage Bolt 5/16-18 x 3/4" Lg.*	73	43087	4	Hex Bolt 3/8-16 x 1-1/4" Lg.*
30	23400	1	Bushing Spacer	75	43343	1	Hairpin Cotter 5/32
31	43957	1	Wind Screen	76	23353	1	Hitch Pin
32	1652-13	2	Ball Bearing .5916" I.D.	77	23368	2	Hitch Adjustment Tubes
33	1629-56	2	Bearing Retainer	78	43737	1	Hopper Rope
34	62445	1	Sweeper Housing Ass'y.	79	43064	4	Hex Lock Nut 5/16-18 Thd.
35	43900	2	Dust Cover	80	19111116	4	Washer, Std. 5/16" S.A.E.
36	43012	8	Hex Bolt 1/4-20 x 3/4" Lg. (Gr.5)	81	62494	1	Wheel Hanger Ass'y.-R.H.
37	62501	1	Height Adjustment Tube Ass'y.	82	62495	1	Wheel Hanger Ass'y.-L.H.
38	62489	2	Brush Bushing Ass'y.	83	43182	2	Hex Bolt 5/16-18 x 3/4" Lg.*
39	23569	1	Brush Shaft	84	43086	1	Lock Washer 5/16" I.D.*
40	23580	4	Brush Retainer (Double)	87	44006	2	Washer, Flat .596 x .859 x .025
41	23581	8	Brush Retainer (Single)		43920		Owner's Manual
42	43901	2	Wheel Ass'y. Comp.				
43	23345	2	Skirt Retainer				

\*Common hardware may be purchased locally.

# SEARS

## owners manual

**Model No.  
486.240320**

**How to Order  
Repair Parts**

## 32" CRAFTSMAN LAWNSWEEPER

Always mention the Model Number when requesting service or repair parts for your Lawnsweeper.

All parts listed herein may be ordered from any Sears Service Center and most Sears stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- THE PART NUMBER
- THE PART DESCRIPTION
- THE MODEL NUMBER
- THE NAME OF MERCHANDISE

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.

## LIMITED ONE YEAR WARRANTY ON CRAFTSMAN LAWNSWEEPER

For one year from 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 use 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/698-731A, Sears Tower, Chicago, IL 60684