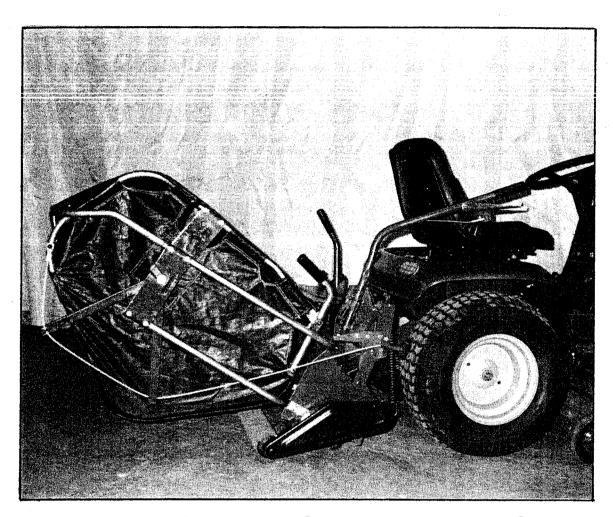
### **OWNERS MANUAL**



## POWERED GRASS COLLECTOR (PGC)

PGC	modificator	n hit	lwr	WH.	210-4/212-5	116144
PGC	modification	Kit	corr	64	220-4/ 222-5	116142
PGC	modification	Wil	cerr	WH	227-5	116143

- ASSEMBLY
- OPERATING
- PARTS LISTING
- MAINTAINENCE

### **CONTENTS**

ASSEMBLY ·	•	•	•	•	•	•	•	•	3-6
OPERATING ·	•	•	•	•	•	•	•	•	7
PARTS LISTING	•	•	•	•	•	•	•	•	8-11
MAINTAINENCE	•	•		•	•	•	•	•	12

# **⚠ CAUTION ⚠**

This symbol marks important instructions relating to your personal safety. To avoid the possibility of injury, read and follow such instructions carefully.

When the manual refers to the left or right side of the vehicle, it means your left and right when sitting in the driver's seat.

### General Safety Suggestions

- 1.) Never perform any work on sweeper when attached to tractor and motor is running.
- 2.) Keep hands, feet, hair, and loose clothing away from all moving parts when sweeper is in operation.
- 3.) Do not use sweeper as a trailer for hauling tools, children, boxes, or other equipment.
- 4.) Clear area to be cleaned of all large objects such as toys, tools, large rocks, and tree branches.

- 5.) Always use sound judgement when using any power equipment.
- 6.) Always operate sweeper at safe recommended speed.
- 7.) Do not operate sweeper too close to fences, trees, buildings, or other obstructions.
- 8.) Read all printed literature completely before operating sweeper.
- 9.) Understand all decals located on sweeper.

## **ASSEMBLY**

#### UNPACKING INSTRUCTIONS

This power sweeper and all necessary parts and hardware are packed in one carton. Open the top of the carton, and remove all small parts. Carefully cut the length of each corner of carton and fold sides down. This provides a clean surface to assemble the sweeper.

STEP 1

Open both part bags and identify contents as listed below.  $% \left\{ 1,2,\ldots ,n\right\}$ 

1-B2683		00100	· ·		
40		]	1	QTY.	DESCRIPTION
125 1-A2735 1 Spacer 3/16 Lg.	1	40 41 128 38 46 47 50 54 55 57 66 67 77 82 83 86 92 93 95 16	1-B2683 1-A2682 X-A1613 1-B2633 1-B2631 1-A2670 1-A2675 1-A-2729 L-307 X-1494 X-1070 X-1199 X-1025 L-60 L-99 X-B1602 X-1614 X-A1609 X-1099 L-212 X-1536 X-1414 L-81 L-203 L-203 L-127 1-A2658 1A-B2739	1 1 1 2 1 1 1 1 4 1 1 1 6 4 14 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1	Clutch Rod Spring Spring Adjusting Collar Sq. Head Set Screw Lift Assist Springs Clutch Return Spring Clutch Handle Spring Clutch Handle Sleeve Spacer .289 5/16-18 x 5/8 H.H.C.S. 3/8-16 x 3 H.H.C.S. 3/8 Split Lock Washer 3/8-16 Hex Lock Nut 5/16 Split Lock Washer 5/16-18 Std. Hex Nut 5/16 Flat Washer Cup Spring Washer .438 I.D. x 1 O.D. Washer 3/8-16 x 1 1/4 Carriage Bolt 1/4 Flat Washer 1/16 x 3/4 Cotter Pin #10-24 x 3/8 Self Tapping Screw 5/16-18 Acorn Nut 5/16-18 x 1 1/4 H.H.C.S. 5/16 Ext. Tooth Lock Washer 5/16-18 x 1 1/2 H.H.C.S. Hamper Stop Dump Cable Assembly

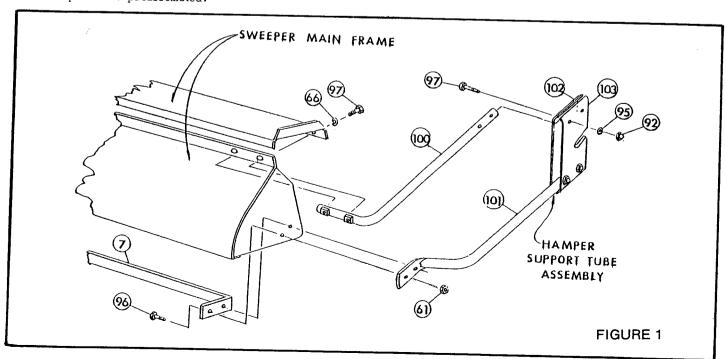
NOTE: Terms right and left as used in this manual refer to right and left when seated on the tractor facing forward.

#### STEP 2 (Figure 1)

Attach left and right hamper support tube assemblies to sweeper main frame as follows:

- A.) Remove four existing bolts (96) and nuts (61) from sweeper assembly and rear stiffener. (This hardware to be reused.)
- B.) Insert top hamper support tube (100) between hamper pivot support brackets (102 and 103). Secure with one bolt (97), one lockwasher (95), and one acorn nut (92) in forward hole as shown.
- C.) Position left hamper support tube assembly on the main unit, making sure the upper arm (100) is inside of the main frame.
- D.) Align holes in upper support tube (100) with holes in main frame and assemble two bolts (93) with two lockwashers (66) finger tight only.
- E.) Align holes in lower support tube (101) with holes in main frame and rear stiffener (7). Attach with hardware removed in operation A above and tighten all bolts securely at this time.
- F.) Repeat operations B through E above for right hamper support tube assembly.

<sup>\*</sup> These parts are preassembled.

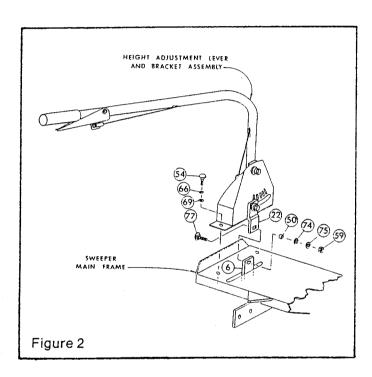


### **ASSEMBLY**

#### STEP 3

Attach height adjustment lever and bracket assembly to sweeper main frame as illustrated in Figure 2.

- A.) Place carriage bolt (77) through Link (22) and torsion arm (6). Then slide bushing (50) over carriage bolt (77) and into torsion arm (6).
- B.) Install spring washer (74), flat washer (75) and secure with lock nut (59).
- C.) Raise or lower lever to align holes in bracket with holes in sweeper main frame, secure with two bolts (54), two lock washers (66), and two flat washers (69).



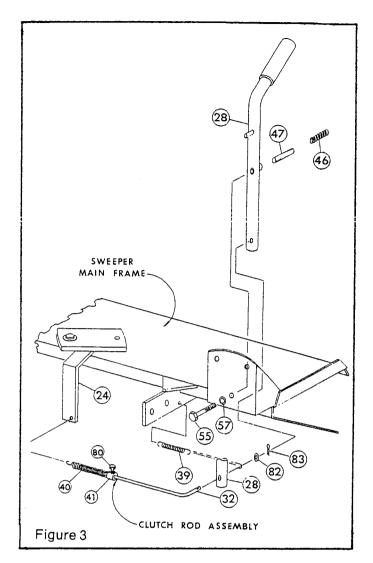
#### STEP 4

Attach clutch handle and linkage assemblies to sweeper as shown in Figure 3.

A.) Assemble sleeve (47) into clutch handle (28), and spring (46). Compress spring with fingers and insert this assembly into clutch bracket on sweeper's main frame. Align holes and secure with one bolt (55) and one lock washer (57).

NOTE: Clutch rod (32) and spring (40) are preassembled with collar (41) and set screw (128). This assembly is pre-set by manufacturer for proper belt tension.

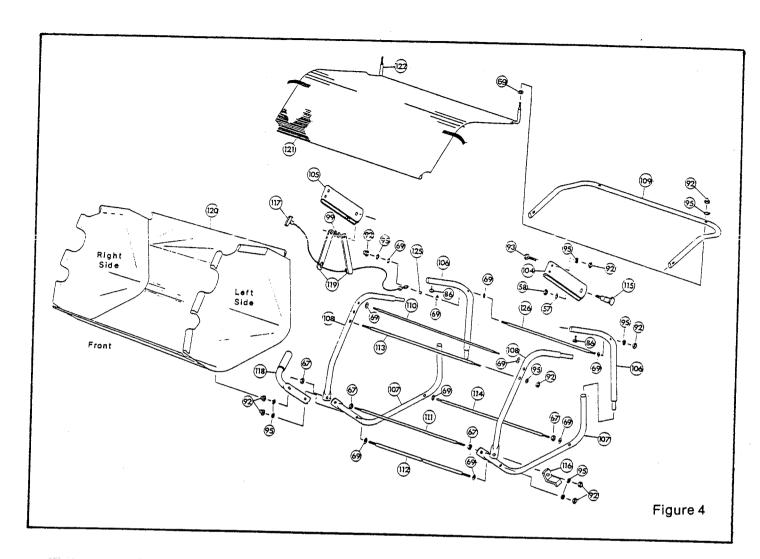
- B.) Take clutch rod assembly and hook free end of spring (40) to clutch arm (24). Then insert end of clutch rod (32) through end of clutch lever (28) and secure with flat washer (82) and cotter pin (83).
- C.) Hook one end of spring (39) in small hole of left hitch bracket. Hook opposite end over clutch rod (32) between lever (28) and washer (82).

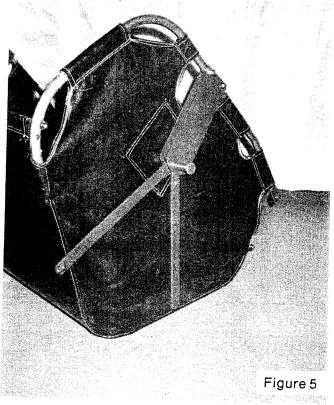


### STEP 5

Assemble debris hamper and wind apron on unit as follows and as shown in Figure 4.

- A) Place debris hamper (120) on flat surface and unroll.
- B) Assemble two top hamper tubes (108) to two middle hamper tubes (106) and secure with two self tapping screws (86).
- C) Holding right side panel of hamper up, from the back insert one of the tube assemblies through the top two loops only. Position right hamper pivot bracket assembly (105) with pivot pin (115) away from hamper side. Slide tube on through bracket and front two loops of hamper. Rotate tubes so that middle hamper tube (106) is on the inside of hamper.
- D) Align holes in top tube (108) with holes in pivot bracket assembly (105). Assemble one bolt (93) with one lock washer (95) and one acorn nut (92) in top hole, finger tight only. See Figure 5.
- E) Assemble one bottom hamper tube (107) onto end of middle hamper tube (106), and push into corner of hamper.
- F) Repeat operations C through E for left side panel using left hamper pivot bracket assembly (104) instead.





TIE ROD IDENTIFICATION CHART						
KEY NO.	IDENTIFICATING MARKS					
110 111 112 113	No threads on either end Right end of rod painted yellow Right end of rod painted white					
114 126	One end of rod painted green  No threads on one end  Right end of rod painted black					

- G) Install rear-top tie rod (126) through lip on back of hamper (120), with black threads to the right. Place a flat washer (69) on each end, and insert rod into hole in tubes (106). Assemble one lock washer (95) and one acorn nut (92) to left end only at this time.
- H) Take rear-bottom tie rod (114), place a nut (67) on threaded end and a flat washer (69) on each end. Insert threaded end first into back hole of one tube (107) then other end of rod in opposite tube (107).
- I) Install front-bottom tie rod (112) through lip on front of hamper (120) with white threads to the right. Place a flat washer (69) on each end, and insert rod into center hole on tubes (107). Assemble one lock wahser (95) and one acorn nut (92) to left end only at this time.

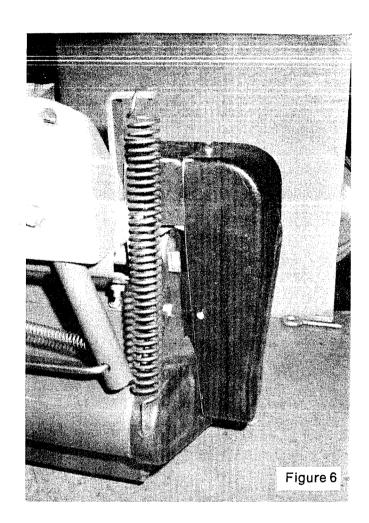
### **ASSEMBLY**

- J) Take pivot bracket tie rod (113) and insert ends through front hole of pivot brackets (104 & 105) and upper hamper tubes (108). Assemble two lock washers (95) and two acorn nuts (92) loosely. Insert wind apron support rod (110) with two flat washers (69) into back hole of tubes (108).
- K) Unroll wind apron (121) with U-rod (122) to the back and Velcro tapes on top, lay apron over hamper. Insert front-top tie rod (111) through lip on front of wind apron (121) with yellow threads to the right, install two nuts (67) and tighten to bottom of threads. Insert right end through hole in flat of tube (107) then through hole in flat of tube (108), repeat for opposite end.
- L) Assemble one hamper stop (116) with one lock washer (95) and one acorn nut (92) to left end of the rod (111) finger tight only. On opposite end place one nut (67) and tighten it securely.
- M) Position the auxiliary dump handle (118) on the right hand ends of tie rods (111 & 112). Assemble one hamper stop (116) with one lock washer (95) and one acorn nut (92) to the top rod (111). Assemble one lock washer (95) and one acorn nut (92) to bottom rod (112).
- N) Place hamper assembly in hamper support pivot brackets (102 & 103) with hamper stop (116) on top of support tubes (100). Insert eyelet on dump cable assembly (117) through bracket assembly (23) under pulley and through two dump levers (119). Attach end to right side of rear top tie rod (126) with two flat washers (69), one spacer (125), one lock washer (95), and one acorn nut (92). Securely tighten all acorn nuts in hamper assembly at this time.
- O) Insert ends of U-rod (109) into top support tubes (100) and align holes. Attach with two bolts (97), two lock washers (95), and two acorn nuts (92).
- P) Rotate hamper to full dump position holding wind apron back over U-tube (109). Place two flat washers (69) on end of wind apron Urod (122) and insert up through U-tube (109). Secure with two lock washers (95) and two acorn nuts (92). Slowly rotate hamper back to operating position and fasten Velcro tabs through openings in side panels.

#### STEP 6

Attach two lift assist springs (38) to front of unit as illustrated in figure. 6.

- A.) Set height adjustment lever in lowest setting. Insert long end of spring (38) into hole in bumper assembly (13).
- B.) With caution, pull opposite end of springs up and attach to lift assist spring arms (23 and 29) as shown.



### **OPERATION**

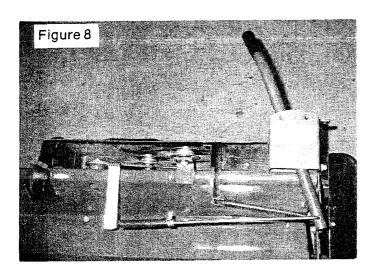
#### **OPERATION**

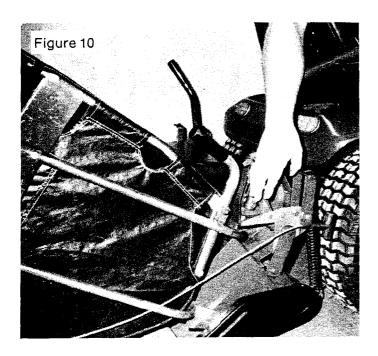
1. BRUSH ADJUSTMENT: Brush can be adjusted from operator's position on tractor. Simply squeeze handle to operator's right to release height setting lock. Push handle down to lower brush or lift handle up to raise brush. Release squeeze lever in desired setting.

Five brush settings give operator a setting for every condition. For best lawn sweeping action, brush ends should just "flick" tops of grass. Pavement, or other hard surfaces, brush ends should just touch surface. See Figure 7.

WARNING: Setting brush too low will cause premature wear of brush strips. When transporting sweeper from work area to another, brush should be raised and power disengaged.

2. CLUTCHING: Sweeper can be engaged or disengaged from operator's position on tractor. Grasp clutch handle to left of operator, push to rear of sweeper and move handle to right to engage brush or left to disengage. See Figures 8 and 9.





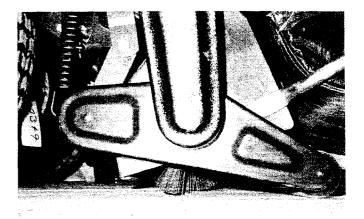
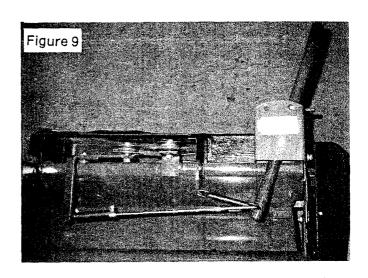


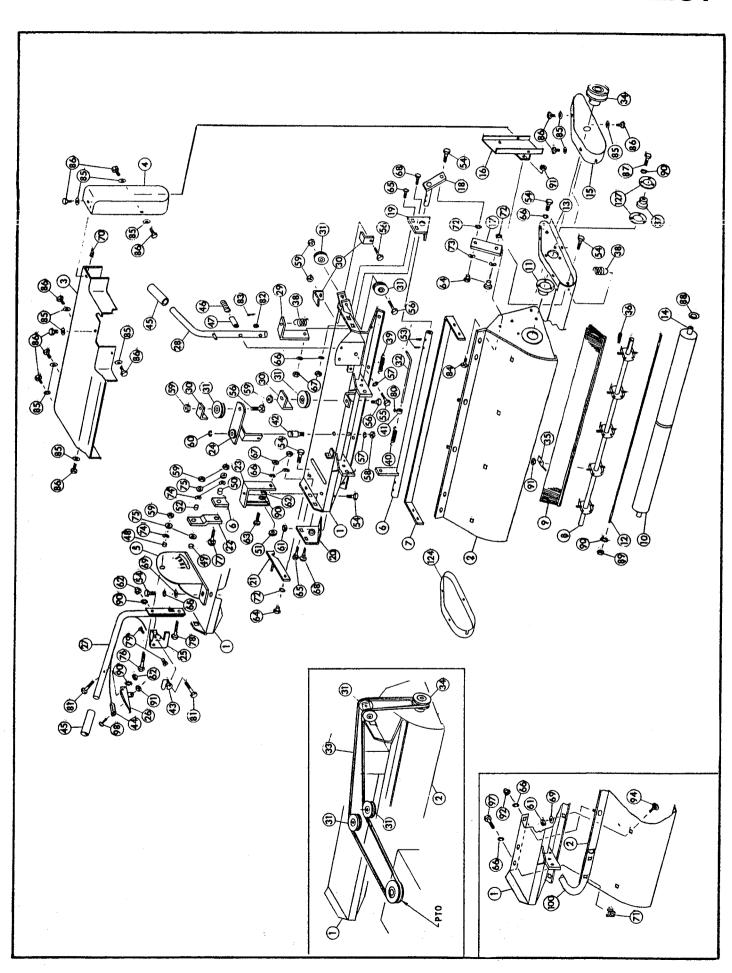
Figure 7



- 3. DUMPING. Normal dumping can be accomplished from operator's position on tractor. Raise hamper latch, then grasp "T" handle on dump cable and pull to front of tractor. Debris hamper will rotate to rear and dump away from sweeper. Some extreme conditions may cause this dumping method to be uncomfortable. An auxiliary dump handle is provided for these situations. See Figure 10.
- 4. SWEEPING SPEED. Ground speed of tractor is important for a "clean sweep" of work area. To attain best sweeping results and minimize excessive wear to brushes, it is recommended ground speed should be 3 to 5 MPH.
- 5. CAUTION: The debris hamper and brushes are constructed of high quality plastic materials. They are mildew and rot resistant but are not fireproof. They will burn. Do not operate sweeper close to open fires.
- 6. Do not always sweep area using same pattern. Sweep diagonally, right to left, left to right, short length and long length over area. This will improve appearance and condition of lawn.
- 7. Periodically check and clean roller shaft (14), rollers (10) should always turn freely.

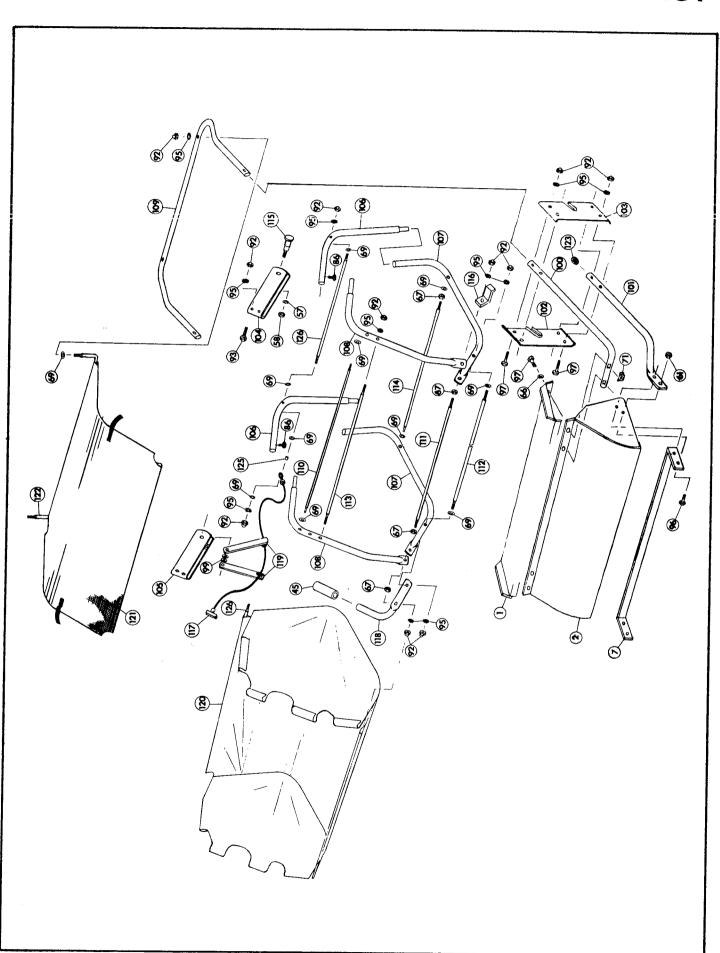
NO. NUMBER DESCRIPTION	
1   1A-D2669   1A-D2669   1A-D2692   3   1-D2654   4   1-C2633   5   1A-C2731   6   1A-C2602   7   1-C1770   8   1A-C2612   9   1-C2632   10   1-B2618   11   1A-A2734   12   1   B2634   13   1A-D2606   14   1-A2623   15   1-D2629   16   1A-B2690   17   1-B2679   18   1A-C2612   10   1-B2618   19   1-C26212   20   1-C2621R   1A-B2692   21   1-B2678   23   1A-B2666   24   1A-C2643   1A-B2695   27   1A-C2674   1-B2679   1A-B2617   28   1A-B2617   28   1A-B2617   28   1A-B2617   29   1-B26474   1-A2639   31   1-B2631   31   1-B	

KEY NO.	PART NUMBER	DESCRIPTION
67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 91 92 94 97 91 124 127	L-60 X-1302 L-99 X-1576 X-1603 L-198 L-260A X-1614 L-149 X-1609 X-1240 X-1613 L-276 X-1099 L-212 X-1114 X-1536 X-1001 X-1048 L-304 X-1132 L-242B X-1414 X-1606 L-127 X-1242 1-C2697 1-D2626 1-B2625	5/16-18 Hex Nut 5/16-18 x 1 Carriage Bolt 5/16 Flat Washer #10-24 Tinnerman Nut 5/16-18 Cage Nut 5/16 Int. Tooth Lock Washer 3/8 Spring Bow Washer 7/16 Flat Washer 3/8-16 x 2 H.H.C.S. 3/8-16 x 2 1/4 H.H.C.S. Cable Clamp 1/4-28 x 1/2 Set Screw 1/4-20 x 1 1/2 H.H.C.S. 1/4 Flat Washer #10-24 x 5/16 H.H.C.S. Slotted #10 Flat Washer #10-24 x 3/8 H.H.C.S. Self Tapping 1/4-20 x 1/2 H.H.C.S. 3/4 Flat Washer #10-24 x 3/8 H.H.C.S. Solotted #10 Flat Washer #10-24 x 3/8 H.H.C.S. Solotted #10 Flat Washer #10-24 x 3/8 H.H.C.S. Solotted #14-20 x 1/2 H.H.C.S. Solotted #15/16-18 kex Acorn Nut 5/16-18 x 1/2 Carriage Bolt 5/16-18 x 1/2 Carriage Bolt 5/16-18 x 1/2 H.H.C.S. #10-24 x 1/2 H.H.C.S. Solotted Top Hamper Support Tube Right Side Guard Bearing Flange



KEY PART NO. NUMBER	DESCRIPTION
1	Mounting Plate Chassis Rear Stiffener Black Hand Grip 3/8 Split Lock Washer 3/8-24 Hex Nut 5/16-18 Hex Nut 5/16-18 Hex Nut 5/16-18 Hex Nut 5/16-18 Caged Nut #10-24 x 3/8 H.H.C.S. Self Tapping 5/16-18 x 1 1/4 H.H.C.S. 5/16-18 x 3/4 H.H.C.S. 5/16-18 x 3/4 H.H.C.S. 5/16-18 x 3/4 H.H.C.S. 5/16-18 x 1 1/2 H.H.C.S. 1/2 I.D. Wrought Washer Top Hamper Support Tube Bottom Hamper Support Tube Hamper Support Pivot Brkt. Right Hamper Support Pivot Brkt. Left Hamper Pivot Bracket Left Hamper Pivot Bracket Left Hamper Pivot Bracket Right Middle Side Hamper Tube Bottom Side Hamper Tube Top Side Hamper Tube Rear Hamper "U" Tube Wind Apron Support Rod Front-Bottom Tie Rod Pivot Bracket Tie Rod Rear-Bottom Tie Rod Pivot Bracket Tie Rod Rear-Bottom Tie Rod 9ivot Bracket Tie Rod Rear-Bottom Tie Rod 2/8-24 Pivot Pin Hamper Stop Dump Cable Assembly Aux. Dump Handle Dump Rope Guide Lever Hamper Assembly Wind Apron Assembly Wind Apron Assembly Wind Apron PU" Rod 1" Tube End Cap Spacer .187 Rear-Top Tie Rod

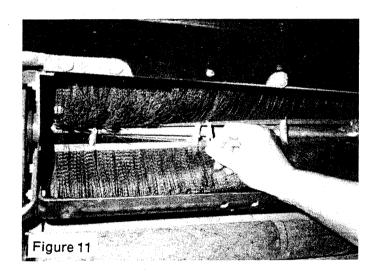
KEY NO.	PART NUMBER	DESCRIPTION
		; ;

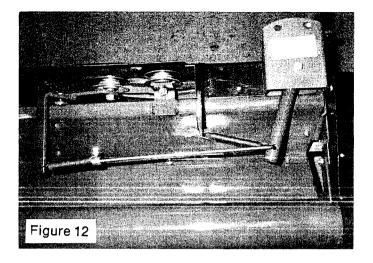


### **MAINTENANCE**

#### MAINTENANCE

- 1. BEARINGS: All bearings are sealed and require no lubrication. However, a few drops of SAE #20 oil on idler pulleys at beginning of season or more often as conditions dictate will repel moisture.
- 2. PIVOT POINTS: All linkage connections should also be lubricated as above to prevent rust and wear.
- 3. GENERAL: All parts are plated or painted for long life. However, due to usage, these coatings will wear. A light lubrication to these areas will prolong life of sweeper and insure trouble-free operation. Sweeper should be cleaned after each usage. Do not allow debris to lay in debris hamper for long periods of time.
- 4. BRUSH REPLACEMENT: Remove lock nuts from brush clamps. Remove clamps and old brush strips. Install two adjacent brush strips into slots in brush discs. Make certain brushes are in center of chassis, same clearance at each end to side plates of chassis. Replace five brush clamps and secure with five lock nuts. Repeat these steps for next two brush strips. See Figure 11.





5. BELT ADJUSTMENT: Belt tension is preset by manufacturer. However, due to usage, belt may elongate. To change belt tension, make certain clutch handle is in disengaged position. Loosen bolt in spring retainer and slide on clutch rod toward clutch handle. Normally a movement of one cm. will compensate for stretch. Start tractor, engage sweeper clutch to make certain adjustment is sufficient.

CAUTION: Do not over tension belt. This will cause premature failure of belt. See Figure 12.

6. Periodically check all bolts, fasteners, and screws for tightness to be sure sweeper is in safe operating condition.