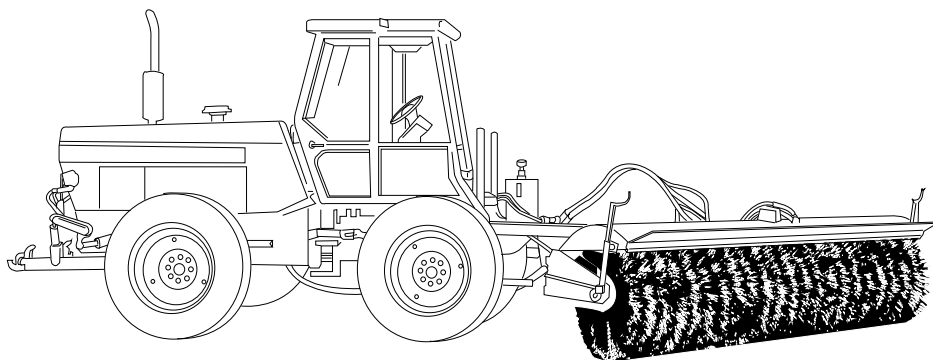
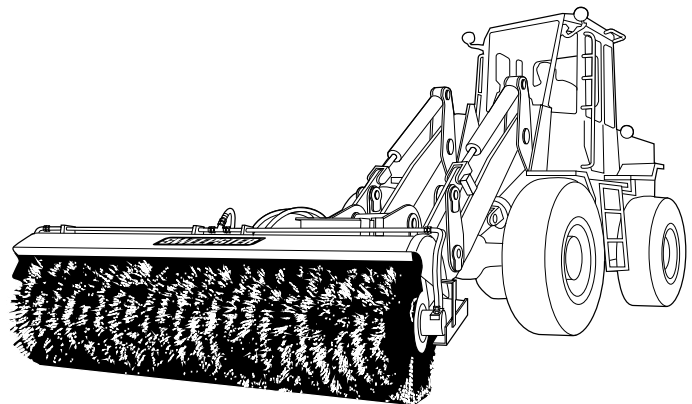




# LA Series

Hydraulic Windrow Sweepers



**SWEEPSTER, Inc.**  
2800 N. Zeeb Road • Dexter, MI 48130  
(734) 996-9116 • FAX (734) 996-9014  
1-800-456-7100  
[www.sweepster.com](http://www.sweepster.com)



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# Introduction

## Serial & Part Numbers

On your unit you will find a serial number plate and/or part number plate(s). The numbers on these plates are very important if you wish to order parts or accessories. For your convenience, record numbers in the appropriate spaces below.

<b>SWEEPSTER</b>	
Model #	Serial #
<input type="text"/>	<input type="text"/>
Empty	GVW
<input type="text"/>	<input type="text"/>
Dexter, MI 48130	1-800-456-7100

<b>SWEEPSTER</b>	
Dexter, MI 48130 1-800-456-7100	
Part Number	Date
<input type="text"/>	<input type="text"/>

<b>SWEEPSTER</b>	
Dexter, MI 48130 1-800-456-7100	
Part Number	Date
<input type="text"/>	<input type="text"/>

<b>SWEEPSTER</b>	
Dexter, MI 48130 1-800-456-7100	
Part Number	Date
<input type="text"/>	<input type="text"/>

# Introduction

## Importance of this Manual



Read this manual before attempting to operate the equipment.

This operator's manual should be regarded as part of the sweeper. Suppliers of both new and secondhand sweepers are advised to keep documentation indicating that this manual was provided with the sweeper.

The manual contains information regarding installation, operation and maintenance required for this sweeper model and optional equipment. It also includes detailed parts lists.

---

## Purpose of Sweeper

This sweeper is designed solely for use in construction cleanup, road maintenance, grounds maintenance, snow removal and similar operations. Use in any other way is considered contrary to the intended use. Compliance with and strict adherence to operation, service and repair conditions, as specified by the manufacturer, are also essential elements of the intended use.

This sweeper should be operated, serviced and repaired only by persons who are familiar with its characteristics and acquainted with relevant safety procedures.

Accident prevention regulations, all other generally recognized safety regulations and all road traffic regulations must be observed at all times.

Any modifications made to this sweeper may relieve the manufacturer of liability for any resulting damage or injury.

---

## Safety Alert Symbol



This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury. Carefully read the message that follows and inform other operators.

---

## Contacting SWEEPSTER

If you have any questions about information in this manual or need to order parts, please call, write, FAX or e-mail SWEEPSTER.

SWEEPSTER, Inc.  
2800 North Zeeb Road  
Dexter, Michigan 48130  
Phone: (734) 996-9116 • (800) 456-7100  
FAX: (734) 996-9014  
e-mail: [sweep@sweepster.com](mailto:sweep@sweepster.com)

For help with installation, operation or maintenance procedures, contact our Technical Service Department. Direct product questions and parts orders to our Sales Department.

When ordering parts or accessories, be prepared to give the following information:

- Sweeper model, serial number and date of purchase
  - Prime mover make and model
  - Part number, description and quantity
- 

## Right-Hand, Left-Hand, Front & Rear

*Right-hand, left-hand, front and rear* are determined from the operator's perspective (either the operator's seat or standing behind a walk-behind unit), facing forward in the normal operating position.

---

## Optional Equipment

Installation instructions for optional equipment, if applicable, appear with parts lists in the back of the manual.

---

## Specifications & Features

Due to continuous product improvement, specifications and features may change without notice.

---

## Warranty

To validate the warranty for this unit, fill out the warranty card or warranty pages located at the back of this manual. Then, send this information to SWEEPSTER.

---

# Safety Information


## Read this Manual


Read all safety information in this manual. All operators must read and understand the entire contents of this manual before sweeping. General safety practices are listed on Safety Information pages, and specific safety information is located throughout this manual.

---

## Hazard Definitions

Three hazard classifications are used in this manual. They are


 **CAUTION** – Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

 **WARNING** – Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**IMPORTANT** – Used for instructions when machine damage may be involved.

---

## Operation


 **CAUTION** – A sweeper is a demanding machine. Only fully trained operators or trainee operators under the close supervision of a fully trained person should use this machine.

Before sweeping:

- Learn sweeper and prime mover controls in an off-road location.
- Be sure that you are in a safe area, away from traffic or other hazards.

- Check all hardware holding the sweeper to the prime mover, making sure it is tight.
- Replace any damaged or fatigued hardware with properly rated fasteners.
- Check prime mover tire pressure before sweeping.
- Check tire ratings to be sure they match the prime mover load. Weigh the sweeper end of the prime mover, if necessary, to insure proper tire rating.
- Remove from the sweeping area all property that could be damaged by debris flying from the sweeper.
- Be sure all persons not operating the sweeper are clear of the sweeper discharge area.
- Always wear proper apparel such as a long-sleeve shirt buttoned at the cuffs; safety glasses, goggles or a face shield; ear protection; and a dust mask.

When sweeping, adhere to all government rules, local laws and other professional guidelines for your sweeping application.

 **WARNING** – Never raise the sweeper more than a few feet off the ground. The sweeper can tip back or the prime mover can tip over causing death or serious injury.

## Safety Information

Before leaving the operator's area for any reason – lower the sweeper to the ground, stop the prime mover engine, set the brakes and remove the key from the ignition.

Keep hands, feet, hair and loose clothing away from all moving parts.

Leave all safety equipment in place when operating the sweeper and prime mover.

Be aware of the extra weight and width a sweeper adds. Reduce travel speed accordingly.

When sweeping on rough terrain, reduce speed to avoid “bouncing” the sweeper. Loss of steering can result.

Never sweep toward people, buildings, vehicles or other objects that can be damaged by flying debris.

---

### Service & Repair



**CAUTION** – Do not modify the sweeper in any way. Personal injury could result. If you have questions, contact your dealer or SWEEPSTER.

Repair or adjust the sweeper in a safe area, away from road traffic and other hazards.

Before adjusting or servicing the sweeper – lower the sweeper to the ground, stop the prime mover engine, set the brakes and remove the key from the ignition.

---

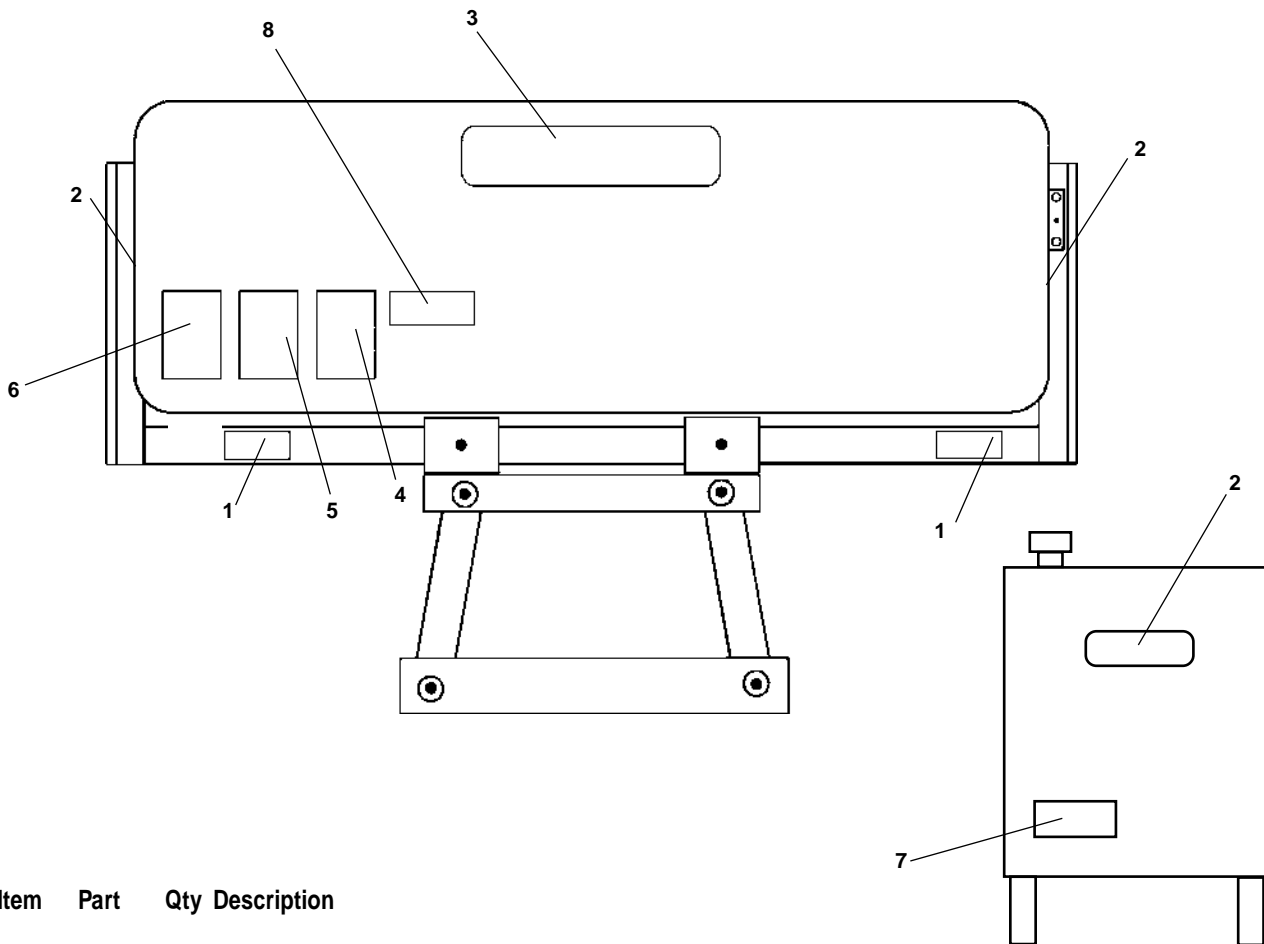
# Safety Signs & Labels

## Important

Always keep safety signs clean and readable, and always replace any damaged or missing safety signs with new ones from SWEEPSTER. Replacement parts must have pertinent safety signs applied to them. See page 5 for information about how to contact SWEEPSTER.

Safety sign and label locations are shown below. For representations of these safety signs and labels, refer to the next 2 pages.

## Locations



Item	Part	Qty	Description
1.	50-0076-1	2	Label, Caution, Pinch Point
2.	50-0186	3	Label, Logo, Small, Black
	50-0184	3	Label, Logo, Small, White
3.	50-0191	1	Label, Logo, Medium, Black (S30)
	50-0185	1	Label, Logo, Medium, White (S30)
	50-0252	1	Label, Logo, White, Die Cut (S32/D32)
	50-0253	1	Label, Logo, Black, Die Cut (S32/D32)
4.	50-0014-2	1	Label, Warning, Running sweeper and engines
5.	50-0014-1	1	Label, Caution, Read manual before operating
6.	50-0013-1	1	Label, Warning, Falling Sweeper (LH/LCH)
7.	50-0439	1	Label, Warning, High Pressure Fluid Hazard



# Safety Signs & Labels

## Representations

NOTE – Locations shown on page 8.



1. 50-0076-1



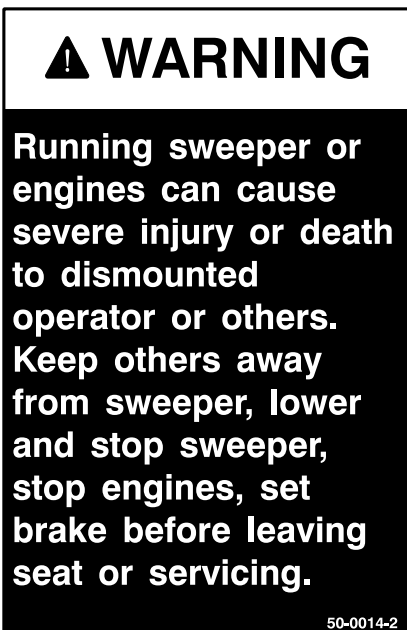
2. 50-0184 or 50-0186



3. 50-0185 or 50-0191 (S30)



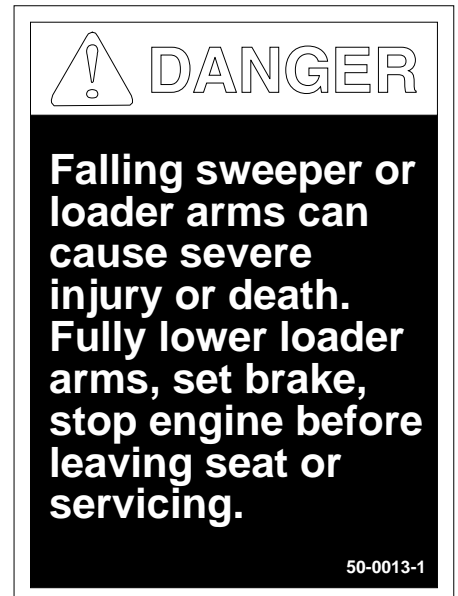
3. 50-0252 or 50-0253 (S32/D32)



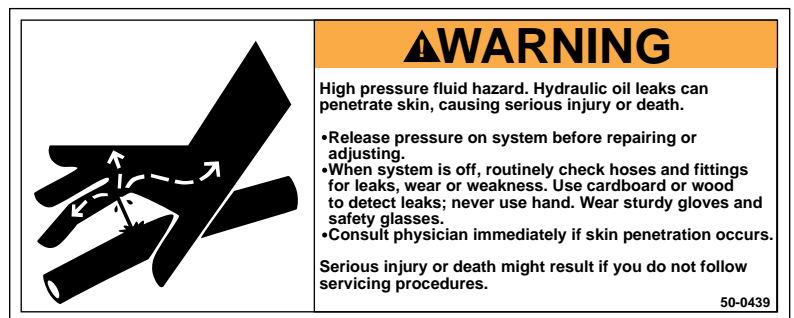
4. 50-0014-2



5. 50-0014-1



6. 50-0013-1 (LH/LCH)



7. 50-0439

# Installation

## On Loader

Figure 1 shows a unit fully installed on a loader.

1. Assemble the swing assembly.
  - a. Fasten casters to the swing plate with 2, 1/2-13 x 4 in. cap screws, flat washers, lock washers and nuts in the front holes and 2, 1/2-13 x 2 in. cap screws, flat washers, lock washers and nuts in rear holes (figure 2).
  - b. Place the swing plate on top of the swing frame and align the holes. Insert a bushing and 3/4 x 3 in. cap screw; secure with a 3/4 in. lock washer and nut (figure 3).

**NOTE:** Refer to the parts list and illustration on pages 18-22 to mount the swing/quick attach assembly.

2. Remove the bucket or other attachment and attach the mounting frame to the loader.

**NOTE:** In some cases, the customer supplies the quick attach blank and field installs assembly 28-4253.

3. Align the swing assembly in front of the quick attach. Then, install links and secure them with hitch pins and roll pins.
4. Install the toplinek to the mounting frame and the swing frame; then, secure the toplinek with a mounting pin and cotter pin.
5. Raise the loader arms high enough to position the brush head assembly in front of the swing assembly, aligning the mounting holes in the swing plate with the holes in brush head frame. Bolt together the swing assembly and brush head assembly, but only finger-tighten the hardware.
6. Attach the toplinek ratchet to the swing assembly upright and then to the brush head upright. Secure with a pin and cotter pin. Remove and discard the spring and chain from the brush head (Items 28 and 29 on page 19)
7. Attach casters to the swing plate.
8. Attach the manual link or optional hydraulic swing

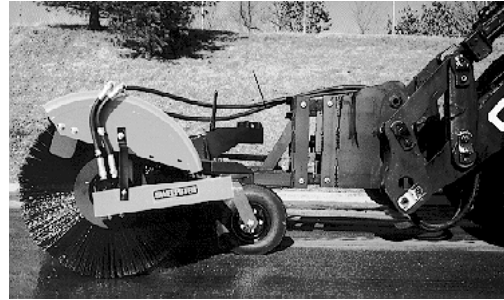


Figure 1

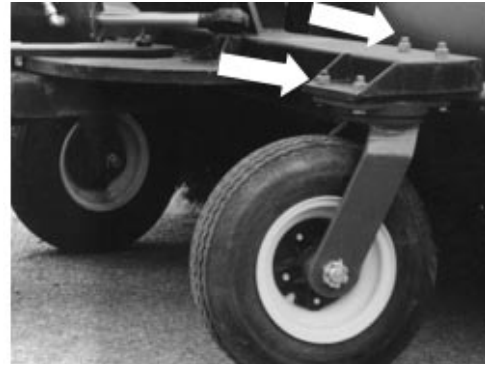


Figure 2

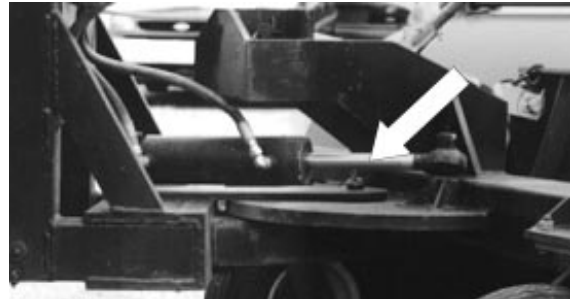


Figure 3

cylinder between to the mounting frame and the swing frame.

9. Adjust the toplinek ratchet so brush bristles are 2 in. (5.1 cm) off the ground.
10. Attach hoses to the brush head and remote valve location.

# Installation

## LA Tractor or Truck Mount

**NOTE:** Refer to the parts lists and assembly drawings on pages 21-22 when mounting the unit to a tractor.

1. Attach the mounting frame to the tractor frame; then, mount the quick attach frame to the mounting frame.
2. Assemble the swing plate, swing frame and casters. Raise assembly 16 in. (40.6 cm) and attach the brush head, but only finger-tighten the hardware. The topline ratchet attaches to the upright on the brush head. It can be used to raise and lower the swing plate and swing frame during the remaining steps. Remove and discard the spring and chain from the brush head (Items 28 and 29 on page 19)
3. Assemble the mounting frame and quick attach mounting frame; then, position the tractor so the quick attach frame and the swing frame are aligned already assembled. Use four links to connect the quick attach frame and swing frame.
4. Connect the manual link or swing cylinder and install lift cylinders.
5. Connect hoses to the lift cylinders and tractor or truck valve.
6. Connect brush motor hoses to tractor motor run valve.
7. Adjust the topline ratchet so brush bristles are 2 in. (5.1 cm) off the ground.



**CAUTION:** Avoid damage to hydraulic components. Cap couplers to prevent contaminants from entering the vertical lift hydraulic system.

## Connecting Hydraulics

**Brush Head Motors:** Adapters and 10 ft (3 m) of hose are included for brush motors. Customers supply hoses to run from fittings to valves.

**Hydraulic Vertical Lift (Tractor or Truck):** Pipe thread fittings and 12 ft (3.7 m) of hose are included for hydraulic vertical lift. Customers supply hoses to run from fittings to valves.

---

**NOTE –** Standard model LA sweepers run off hydraulic flow from the prime mover. When tapping into the hydraulic system, use the fewest fittings possible.

The prime mover must be equipped with auxiliary remotes; otherwise, purchase an auxiliary valve and tap into hydraulic flow elsewhere. Follow manufacturer's recommendations.

If remotes do not have 20 gpm (1.26 lps) available, purchase a separate power pack and follow instructions included with that equipment to install. Power packs are available from Sweepster to mount on a 3-point hitch with rear PTO or to mount on truck bed.

1. Connect pressure and return hoses to auxiliary remotes or power pack.
2. Install the check valve on hoses. the arrow points toward the pressure hose. (Figure 4)
3. Attach the pressure hose to the rear tube on the brush head and the return hose to the front tube.

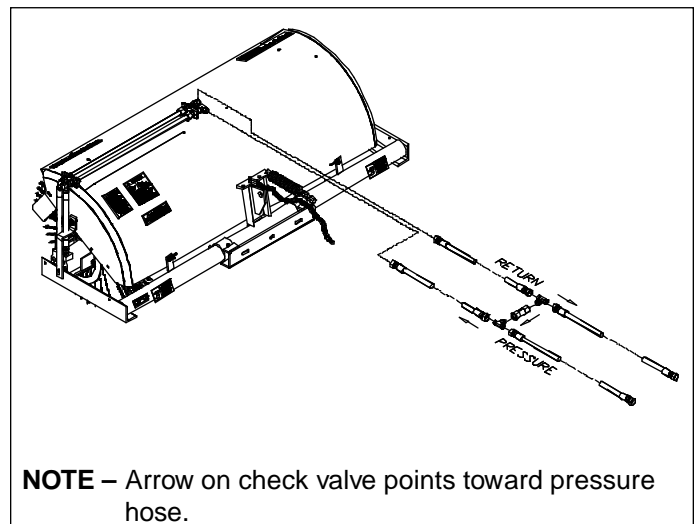


Figure 4

## Angle Feature

### Manual Angle Kit

**NOTE** – Some sweepers use a hydraulic angle kit instead of a manual angle kit.

1. Slide the inner link into the outer link.
2. Place link ends on the swing assembly pins. Secure with cotter pins.
3. Position the brush head assembly at the desired angle. Align holes in both links and install the lock pin to keep the brush head assembly in position.

### Hydraulic Angle Kit

**NOTE** – For hydraulic swing with electric valves, refer to Option – Hydraulic Swing/Electric Valve at the back of this manual.

1. Attach fittings to the cylinder with the elbow fitting on the rod end and the orifice fitting on the barrel end.
  2. Install the cylinder with the barrel end on the swing assembly and the rod end on the swing plate. Secure with cotter pins.
  3. Connect a hose to each fitting.
  4. Attach adapter fittings to hose ends.
  5. Connect adapter fittings to remote valves on the prime mover.
-

## Notes

## Adjustments

### Aligning Mounting

The Model LA mounting incorporates a four-bar linkage system that allows the sweeper to move up and down independently of the loader arms. This feature is very important because it permits the sweeper to follow the contours of the ground, offering a good sweep.

**CAUTION** – Adjust the four-bar linkage before each operation to avoid sweeper damage.

Sweeping with a properly adjusted mounting offers efficient sweeper performance, while using the Model LA with the mounting out of adjustment can cause severe damage to the sweeper and can result in a poor sweep. If the U-channels on the loader arms are positioned too low, the sweeper must support the loader arms, an amount of weight far greater than the sweeper is designed to carry. And if the U-channels on the loader arms are too high, the sweeper cannot sweep into low areas.

To adjust the mounting:

1. Drive the loader and sweeper to a flat surface.
  2. Lower the sweeper so the casters sit on the ground.
  3. Adjust the loader arms so the tops of the U-channels on the sweeper and the tops of the U-channels on the loader arms are even (Figure 1).
  4. Adjust the brush height according to Adjusting Brush Height.
- 

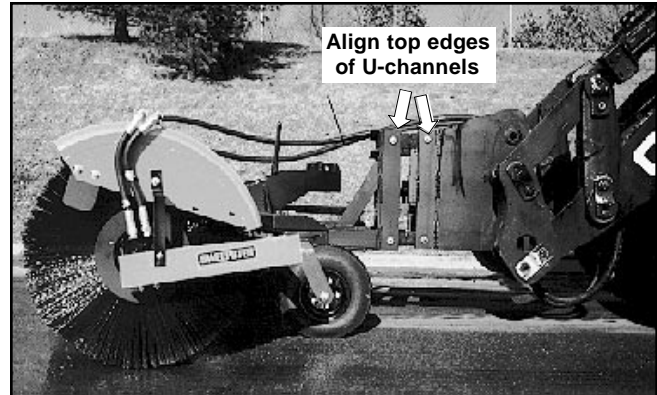


Figure 1

## Adjustments

### Leveling

1. Move sweeper to a level, hard surface.
  2. With the sweeper straight ahead, measure from the ground to the bottom, front corners of the side angles on the brush head frame.
  3. If the measurements are not equal, raise or lower one end until both are even; then, tighten the mounting bolts.
- 

### Adjusting Brush Pattern

A proper brush pattern provides the best sweeping job and offers the longest brush life.

1. Move the sweeper to a dusty or sandy surface.
  2. Lower the sweeper with the hydraulics; then, ratchet the brush head down until the bristles touch the surface to be swept.
  3. Raise the sweeper with loader hydraulics and engage motors at a slow speed.
  4. Lower and then run the sweeper for 10 seconds.
  5. Raise the sweeper and check the spot that was swept. It should be an area 2-3 in. (5.1-7.6 cm) that runs the entire length of the brush (Figure 2).
  6. If the area does not look like the one in Figure 2, adjust the brush height with the ratchet. Raise the brush head for a narrower pattern or lower it for a wider pattern.
- 

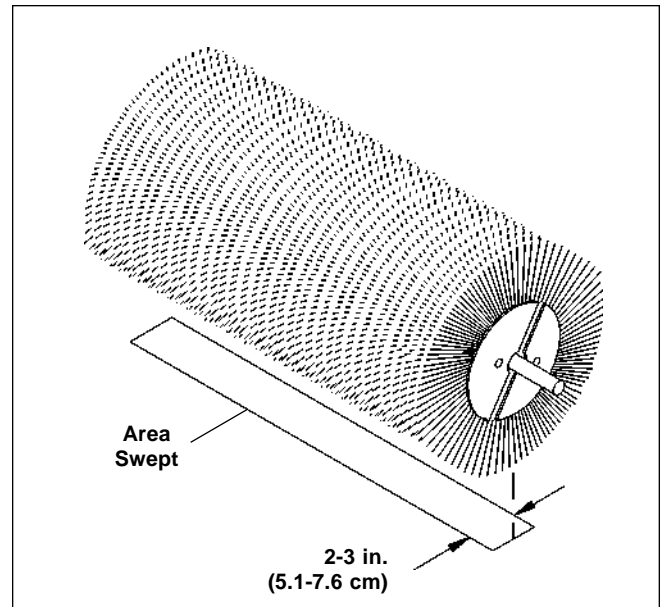


Figure 2

## Operating Tips

### Snow

High brush speeds and slow ground speeds are needed to sweep snow effectively. Start at 3/4 throttle and the lowest gear of the prime mover. For wet and/or deep snow, increase to almost full throttle. This helps keep snow from packing up inside the brush hood.

In deep snow you may need to make more than one pass to get down to a clean surface.

To keep snow from blowing back onto a swept area, always sweep so the wind is at your back or so it follows the brush angle.

---

### Dirt & Gravel

To keep dust at a minimum, plan your sweeping for days when it is overcast and humid or after it has rained. Also, sweep so the wind blows at your back or in the direction the brush head is angled.

Low brush speeds and moderate ground speeds work best for cleaning debris from hard surfaces. Brush speeds that are too fast tend to raise dust because of the aggressive sweeper action.

To sweep gravel, use just enough brush speed to “roll” the gravel, not throw it.

---

### Heavy Debris

For 2 in. (5.08 cm) or more of heavy debris, a maximum brush speed in the low range (for sweepers with two-speed motors) and ground speeds of less than 5 mph (8 kph) are recommended.

---

### Thatch

Low brush speeds and low prime mover speeds do the best thatching job.

To prevent the brush from pulling itself into the ground, adjust the spring-chain assembly so the bristle tips barely touch the grass.

If the brush pulls into the grass and stalls while sweeping, use the lift to raise the brush. **Do not** increase throttle to override a stall out.

Use a combination of brush speeds and ground speeds that rolls up a neat windrow.

To keep thatch from blowing back into a swept area, sweep with the wind at your back or in the direction the brush is angled.

---

### Removing Sweeper

To remove the sweeper assembly from the tractor, remove and cap motor hoses then remove pins. Retract the vertical lift cylinders. This will raise the quick attach frame high enough to back up the tractor. Disconnect hoses from the tractor and cap them.

---




## Hydraulic System

Prevent contamination of the hydraulic system by cleaning prime mover hydraulics before connecting the sweeper hydraulics and change your oil and filters at regularly scheduled intervals.


## Brush Section Replacement

1. Support the brush head assembly 2-3 in. (5.1-7.6 cm) off the ground with the transport chain.

**CAUTION: Clean, then cover hose ends, fittings and motor ports with tape to prevent contamination.**

2.  Remove and label hoses at motors and on hood. They will be reconnected to the same ports.
3. If using a hoist to remove the core, remove screws from the side brackets and hood; then, lift it off. If using a jack, the hood does not need to be removed.
4. Remove nuts holding the motor housings to the frame; slide the brush out of the frame.
5. Stand core on blocks to protect the motor. Remove the end ring.
6. Remove old sections; then, refill following instructions enclosed with the new sections.
7. Replace the end ring and lay the core down.

**CAUTION: Pull the housing to the end of the frame (Figure 3) to prevent motor damage.**

8.  Slide the core into the frame and replace the bolts in housings; finger-tighten the bolts.
9. Measure from the rear of the brush frame tube to the center of the motor shafts. These measurements must be equal. Slide either end forward or back until equal; tighten all bolts.
10. Replace the hood and brackets.
11. Clean hose fittings and motor ports.
12. Connect the hydraulics.

## Motor and Hub Replacement

1. Follow steps 1-4 in Brush Section Replacement.
2. Remove the end ring, noting how sections are placed on the core; then, slide enough sections off so the motor and hub are visible.
3. Remove the pin and nut on the end of the motor shaft. Remove the motor from core.

NOTE: Be sure to retain the key.

4. Replace the motor if necessary. If hub must be replaced, remove screws which hold it to the core and replace hub.
5. Slide motor and housing through core and into hub. Install the nut on the motor shaft and tighten; then, insert the pin.
6. Replace sections and the end ring.
7. Follow steps 8-11 of Brush Section Replacement.

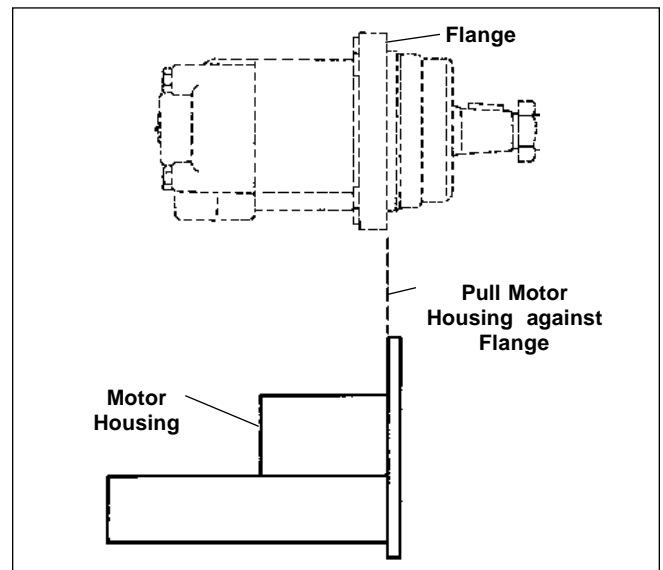


Figure 3

# Maintenance

## Maintenance Schedule

Procedure	Daily	50 Hours	100 Hours	500 Hours
Brush Head Assembly, Check Level	✓			
Brush Pattern, Check	✓			
Cylinders, Retract Rods at end of day	✓			
Drive Shaft, Pump, Check	✓			
Filter, Air, Vehicle, Clean	✓			
Filter, Hydraulic, Replace			✓	
Fittings/Hoses, Hydraulic, Tighten		✓		
Fittings, Zerk, Grease	✓			
Fluid, Hydraulic, Check Level	✓			
Fluid, Hydraulic, Replace				✓
Screws/Hardware, Tighten		✓		
Swing Plate, Grease	✓			
Wash Machine	✓			

## Troubleshooting

Problem	Solution
Motor moves when operating	Housing is designed to allow motor to "float" to minimize stress on motor shafts
Motor slows or stops when making contact with sweeping surface	Put flow gauge in return line; if more than 5 gpm flows, motor is failing and needs replacing; if no flow when motor is stalled, pump or pressure relief is the problem; check return pressure of relief valve for gpm
Unit swings too fast, breaking pin or cylinder	Put needle valve in line; adjust flow or use restrictor fitting in line.

# Maintenance

## maintenance record

Use this log to record maintenance performed on your unit.

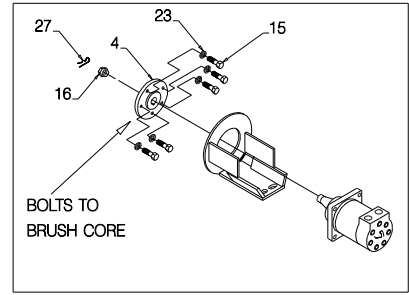
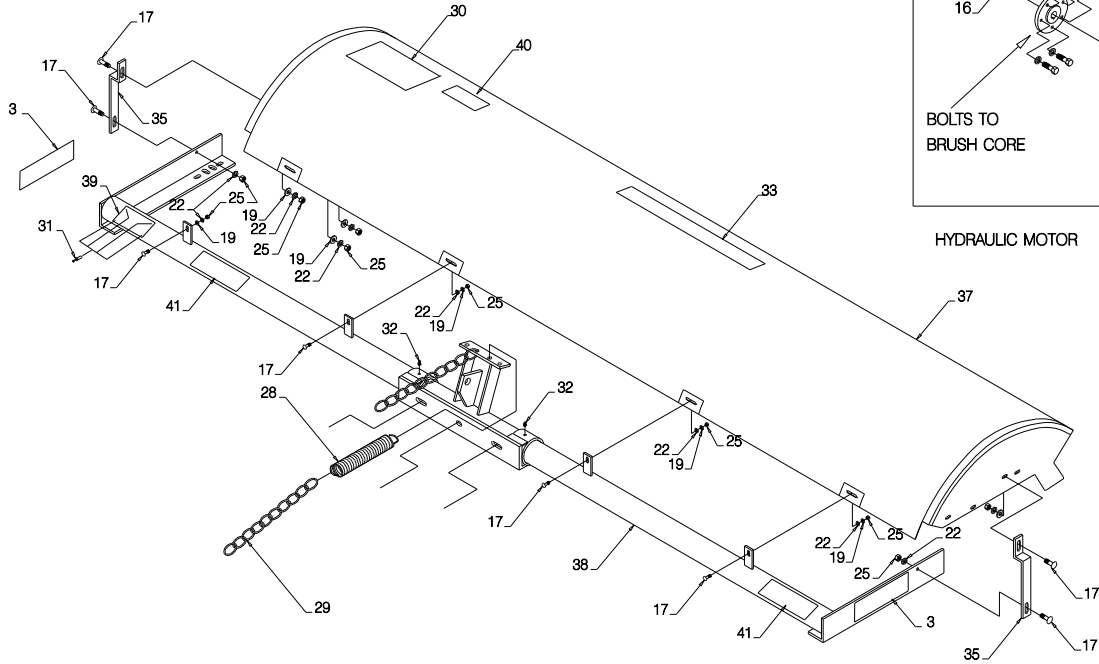
Date	Maintenance Performed	Performed By	Comments

## Brush Head, D32

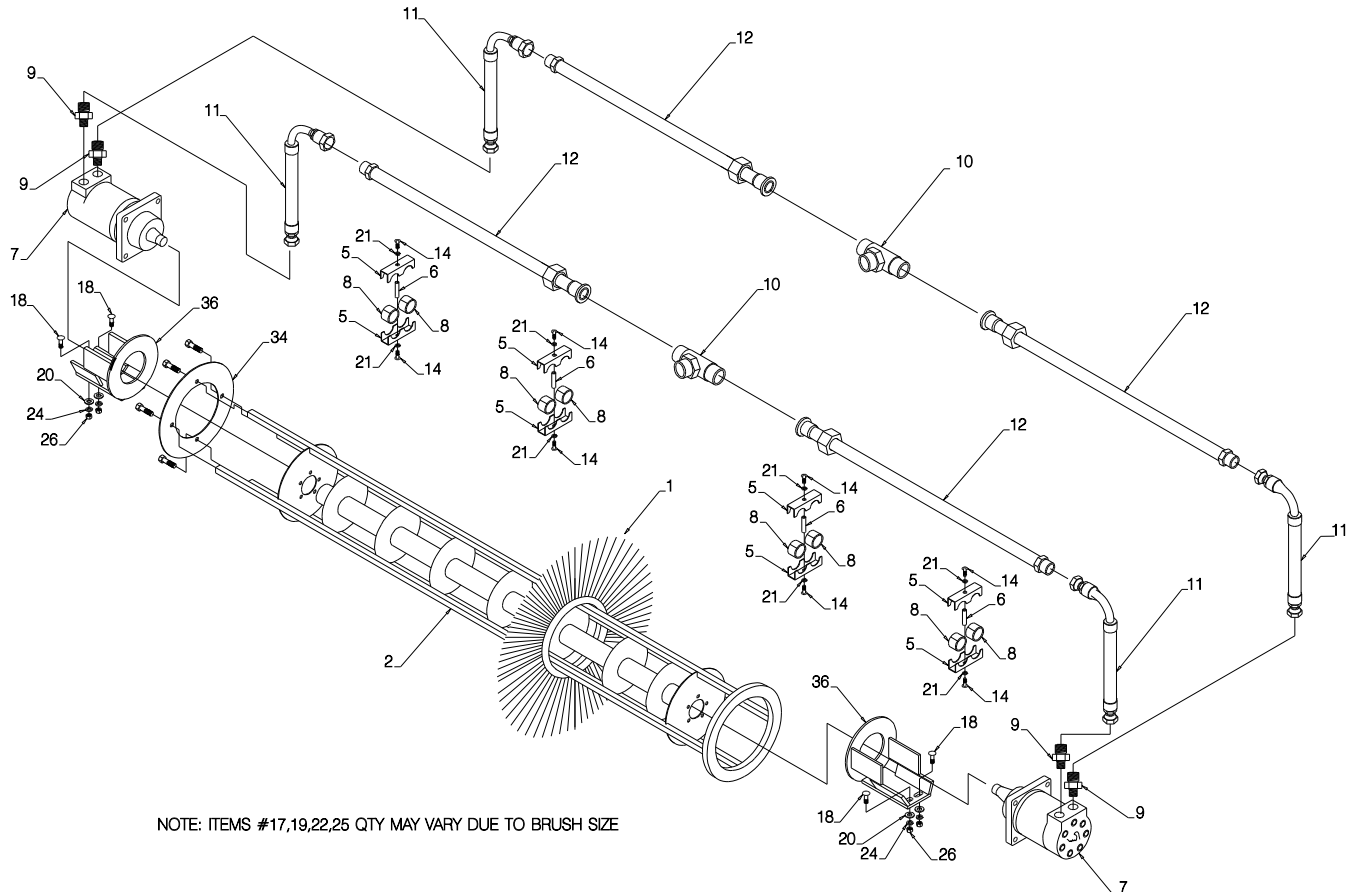
Ref	Part	Qty	Description	Ref	Part	Qty	Description
1.	01-0272C	1	Section Set, Poly, 5 Ft	13.	07-0013	4	Screw, HHC, 5/16-18 x 3/4"
	01-0020C	1	Section Set, Poly, 6 Ft	14.	07-0016	8	Screw, HHC, Gr2, 5/16-18 x 1"
	01-0079C	1	Section Set, Poly, 7 Ft	15.	07-0034	10	Screw, HHC, Gr2, 7/16-20 x 1"
	01-0080C	1	Section Set, Poly, 8 Ft	16.	07-0108	4	Bolt, Crg, 3/4" x 3/8"
	01-0530C	1	Section Set, Poly, 9 Ft	17.	07-0114	8	Bolt, Crg, Gr2, 3/8-16 x 1-1/4"
	01-0220C	1	Section Set, Poly, 10 Ft	18.	07-0119	4	Bolt, Crg, Gr5, 5/8" x 1-3/4"
	—	1	Section Set, Poly, 12 Ft *	19.	07-0154	10	Washer, 3/8" Flat
	01-0273C	1	Section Set, Wire, 5 Ft	20.	07-0158	4	Washer, 5/8" Flat
	01-0021C	1	Section Set, Wire, 6 Ft	21.	07-0167	8	Washer, Lock, Split, Gr2, 5/16"
	01-0083C	1	Section Set, Wire, 7 Ft	22.	07-0168	12	Washer, 3/8" Lock
	01-0084C	1	Section Set, Wire, 8 Ft	23.	07-0169	10	Washer, 7/16" Lock
	01-0531C	1	Section Set, Wire, 9 Ft	24.	07-0171	4	Washer, 5/8" Lock
	01-0221C	1	Section Set, Wire, 10 Ft	25.	07-0183	12	Nut, Hex, Gr2, 3/8-16
		1	Section Set, Wire, 12 Ft *	26.	07-0185	4	Nut, Hex, Gr2, 5/8-11
	01-0274C	1	Section Set, 1/2 Poly/Wire, 5 Ft	27.	07-0210	2	Pin, Clevis, 5/8" x 2"
	01-0022C	1	Section Set, 1/2 Poly/Wire, 6 Ft	28.	07-0216	1	Spring, 11"
	01-0081C	1	Section Set, 1/2 Poly/Wire, 7 Ft	29.	07-1558	1	Chain, 1/4" x 21 Link
	01-0082C	1	Section Set, 1/2 Poly/Wire, 8 Ft	30.	07-0686	2	Washer, 1-3/4" x 1-1/32"
	01-0532C	1	Section Set, 1/2 Poly/Wire, 9 Ft	31.	07-1675	4	Rivet, Pop, Gr2, 1/8" x 1/4"
	01-0222C	1	Section Set, 1/2 Poly/Wire, 10 Ft	32.	07-2681	2	Fitting, Zerk, Drive In, Str, 1/4"
	—	1	Section Set, 1/2 Poly/Wire, 12 Ft *	33.	11-0773	2	Shield, Hood Side
2.	01-0277	1	Weldment, Core, 5 Ft	34.	11-1149	1	Ring, End
	01-0287	1	Weldment, Core, 6 Ft	35.	11-1606	2	Bracket, Hood Support
	01-0250	1	Weldment, Core, 7 Ft	36.	11-1837	2	Housing, Motor
	01-0426	1	Weldment, Core, 8 Ft	37.	11-1430	1	Hood, 5 Ft
	01-0383	1	Weldment, Core, 9 Ft		11-1608	1	Hood, 6 Ft
	01-0223	1	Weldment, Core, 10 Ft		11-1806	1	Hood, 7 Ft
	01-0587	1	Weldment, Core, 12 Ft		11-1664	1	Hood, 8 Ft
3.	50-0186	2	Label, Small Black SWEEPSTER		11-9219	1	Hood, 9 Ft
	50-0184	2	Label, Small White SWEEPSTER		11-1620	1	Hood, 10 Ft
4.	03-0400	1	Hub, Core		13-1659	1	Hood, 12 Ft
5.	03-0784	4	Clamp, Hydraulic, Metal	38.	11-1934	1	Frame, Brush Head, 5 Ft
6.	03-0788	2	Nut, Stake, Soc, Hd		11-1605	1	Frame, Brush Head, 6 Ft
7.	03-1826	2	Motor, Hydraulic		11-1868	1	Frame, Brush Head, 7 Ft
8.	03-1931	8	Bushing, Split, 3/4"		11-1665	1	Frame, Brush Head, 8 Ft
9.	03-1939	4	Fitting, Adaptor, HP, 7/8" MOR, 5/8" MFS		11-2874	1	Frame, Brush Head, 9 Ft
10.	03-1940	2	Fitting, Tee, HP, 3/4" MFS, 3/4" MFS		11-1621	1	Frame, Brush Head, 10 Ft
11.	03-1968	4	Hose, 5/8" x 16.125", 2W, 5/8" FFS, 5/8" FFS		13-3705	1	Frame, Brush Head, 12 Ft
12.	03-1967-5	4	Assembly, Tube, Brush Head, 5 Ft ORFS	39.	50-0004	1	Serial Number Plate
	03-1967-6	4	Assembly, Tube, Brush Head, 6 Ft ORFS	40.	50-0014-2	1	Label, Warning, Running Swpr & Engines...
	03-1967-7	4	Assembly, Tube, Brush Head, 7 Ft ORFS	41.	50-0076-1	2	Label, Caution, Pinch Point
	03-1967-8	4	Assembly, Tube, Brush Head, 8 Ft ORFS	42.	50-0192	1	Label, Large Black SWEEPSTER
	03-1967-9	4	Assembly, Tube, Brush Head, 9 Ft ORFS		50-0193	1	Label, Large White SWEEPSTER
	03-1967-10	4	Assembly, Tube, Brush Head, 10 Ft ORFS	43.	50-0014-1	1	Label, Caution, Read Manual
	03-2353	4	Assembly, Tube, Brush Head, 12 Ft ORFS				

\* Order by description from SWEEPSTER Sales Department

# Brush Head, D32



HYDRAULIC MOTOR ASSEMBLY



NOTE: ITEMS #17,19,22,25 QTY MAY VARY DUE TO BRUSH SIZE

## Swing/Quick Attach Assembly

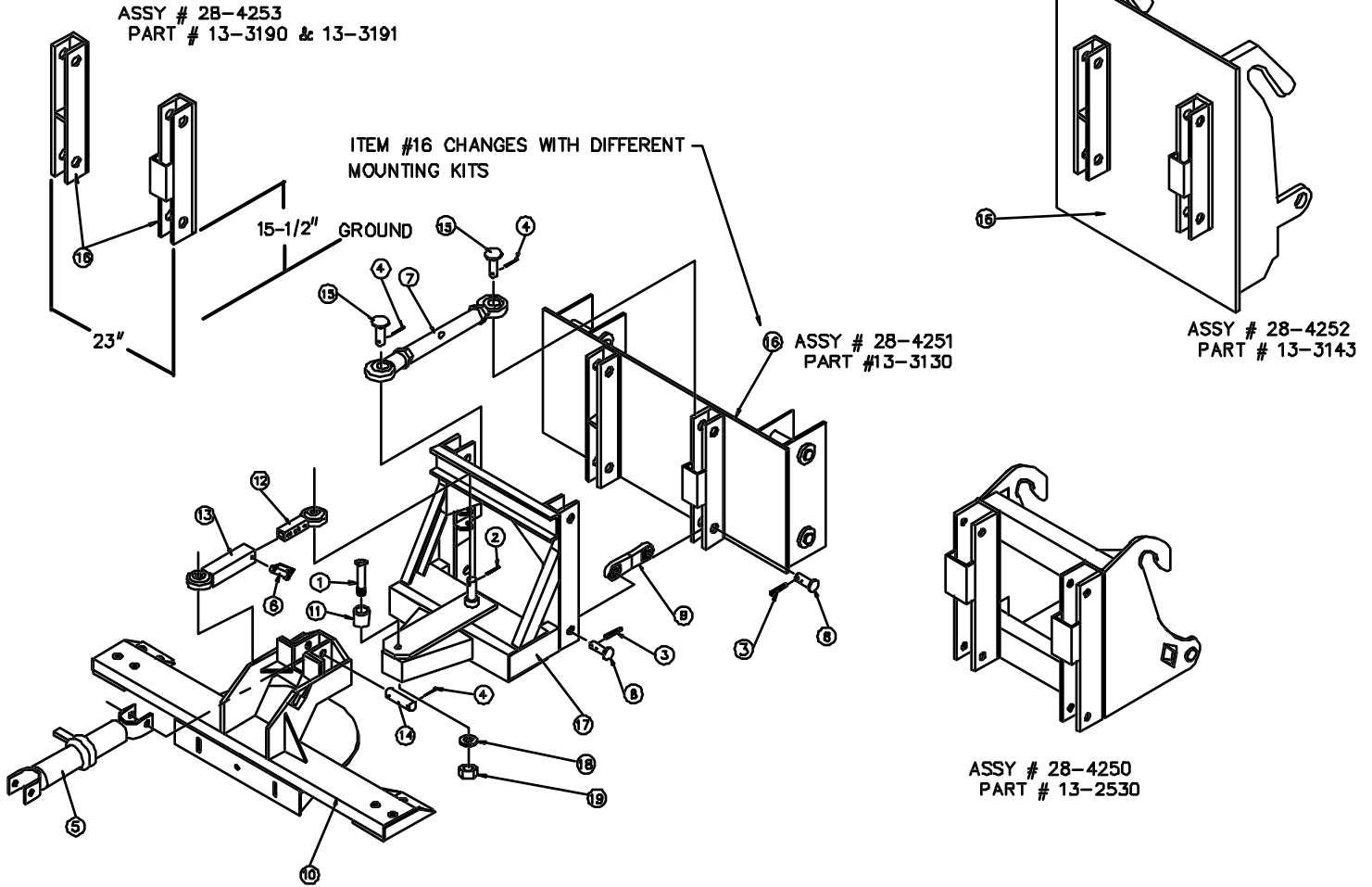
**CASE W18 Quick Attach – Assembly 28-4254**  
**CAT IT 18/20 Quick Attach – Assembly 28-4250**  
**John Deere 544A Quick Attach – Assembly 28-4251**

**JRB/John Deere 644E Quick Attach – Assembly 28-4252**  
**Customer-Installed Quick Attach – Assembly 28-4253**

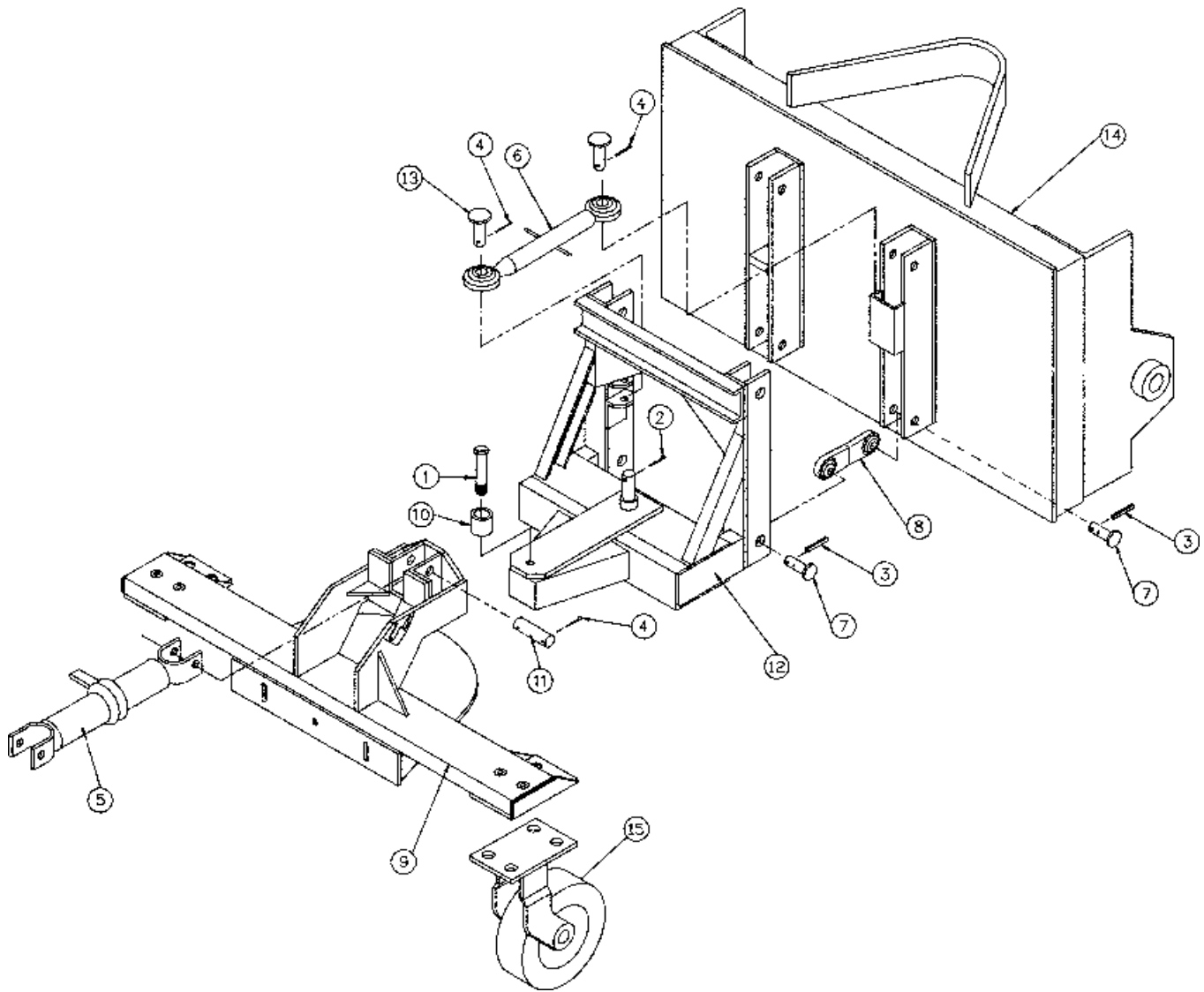
Ref	Part	Qty	Description
1.	07-0085	1	Screw, HHC, GR2, 3/4-10 x 3"
2.	07-0206	2	Pin, Cotter, GR2, 3/16" x 2", PL
3.	07-0671	8	Pin, Roll, GR2, 5/16" x 2"
4.	07-0786	4	Pin, Cotter, GR2, 3/16" x 1-1/2", PL
5.	07-2104	1	Toplink, Ratchet, 1" Pins
6.	07-2105	1	Pin, Lock, 3/8", SQ, Bail
7.	07-2484	1	Toplink, 5/8" Balls
8.	12-0292	8	Weld, Pin, Hitch
9.	12-0296	4	Weld, Link
10.	13-2218	1	Weld, Plate, Swing
11.	13-2230	1	Bushing, 1-3/4", w/Holes
12.	13-2452	1	Weld, Link, Inner
13.	13-2453	1	Weld, Link, Outer
14.	13-2484	1	Pin, 1" x 3-3/4", w/Holes
15.	13-3413	2	Weld, Pin, Mounting
16.	13-2530	1	Weld, Frame, Mounting, CAT IT 18/20
	13-3130	1	Weld, Frame, Mounting, JD 544A
	13-3143	1	Weld, Frame, Mounting, JRB
	13-3190	1	Weld, Frame, Customer Installation (Also Requires 13-3191)
	13-3191	1	Weld, Frame, Customer Installation (Also Requires 13-3190)
	—	1	Weld, Frame, Case W18 (Not Shown) *
17.	13-3134	1	Weld, Frame, Swing
NS.	07-1977	2	Assembly, Caster
	13-3110	1	Kit, Hose

\* Order by description from SWEEPSTER Sales Department

# Swing/Quick Attach Assembly



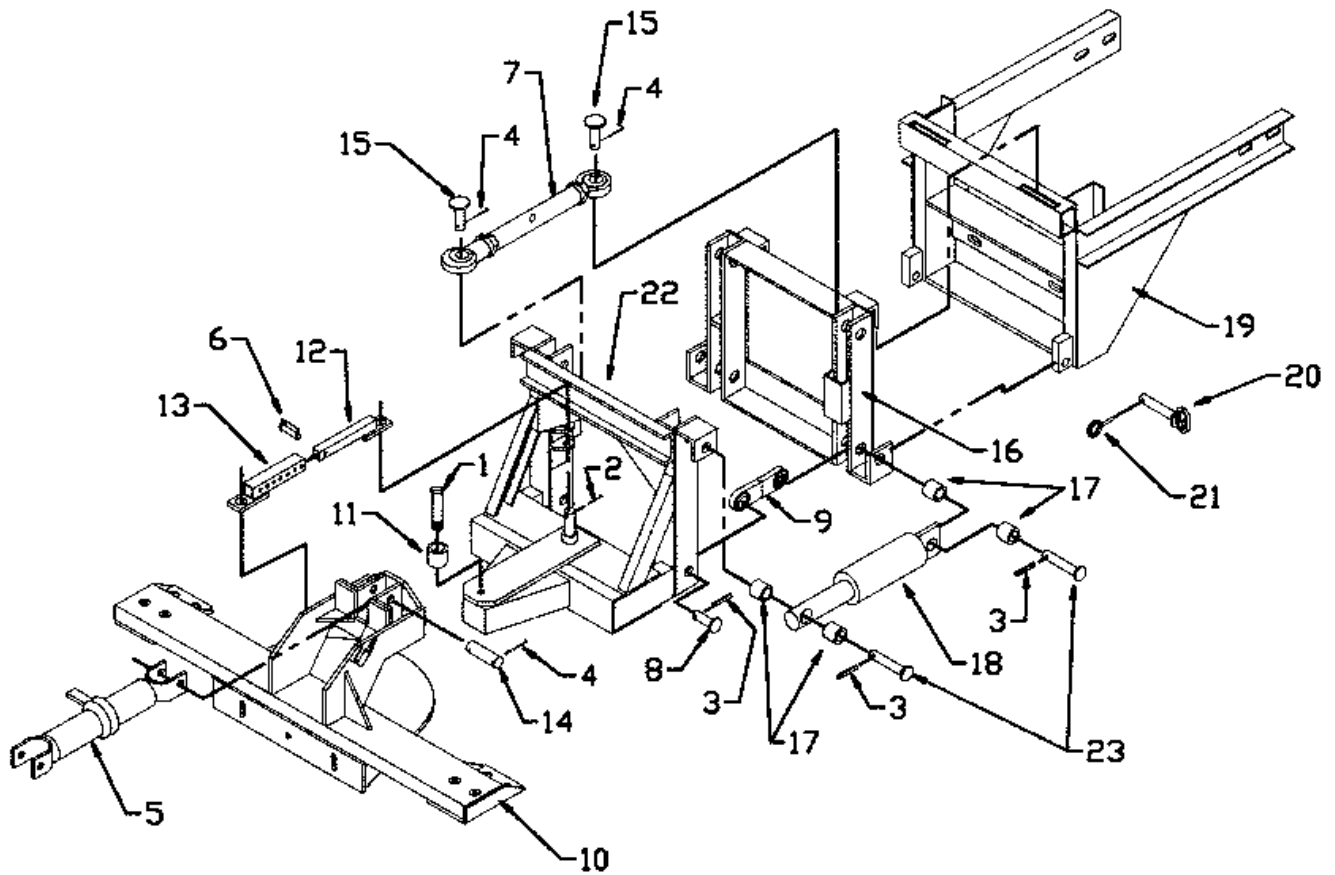
## Assembly 28-4262



Ref	Part	Qty	Description
1.	07-0085	1	Screw, HHC, GR2, 3/4-10 x 3"
2.	07-0206	2	Pin, Cotter, GR2, 3/16" x 2", PL
3.	07-0671	8	Pin, Roll, GR2, 5/16" x 2"
4.	07-0786	4	Pin, Cotter, GR2, 3/16" x 1", PL
5.	07-2104	1	Toplink, Ratchet, 1" Pins
6.	07-2484	1	Toplink, 5/8" Balls
7.	12-0292	8	Weld, Pin, Hitch
8.	12-0296	4	Weld, Link
9.	13-2218	1	Weld, Plate, Swing
10.	13-2230	1	Bushing, 1-3/4", w/Holes
11.	13-2484	1	Pin, 1" x 3-3/4", w/Holes
12.	13-3134	1	Weld, Frame, Swing
13.	13-3413	2	Weld, Pin, Mounting
14.	13-3967	1	Weld, Frame, Mounting, JD 644E
15.	07-1977	2	Assembly, Caster



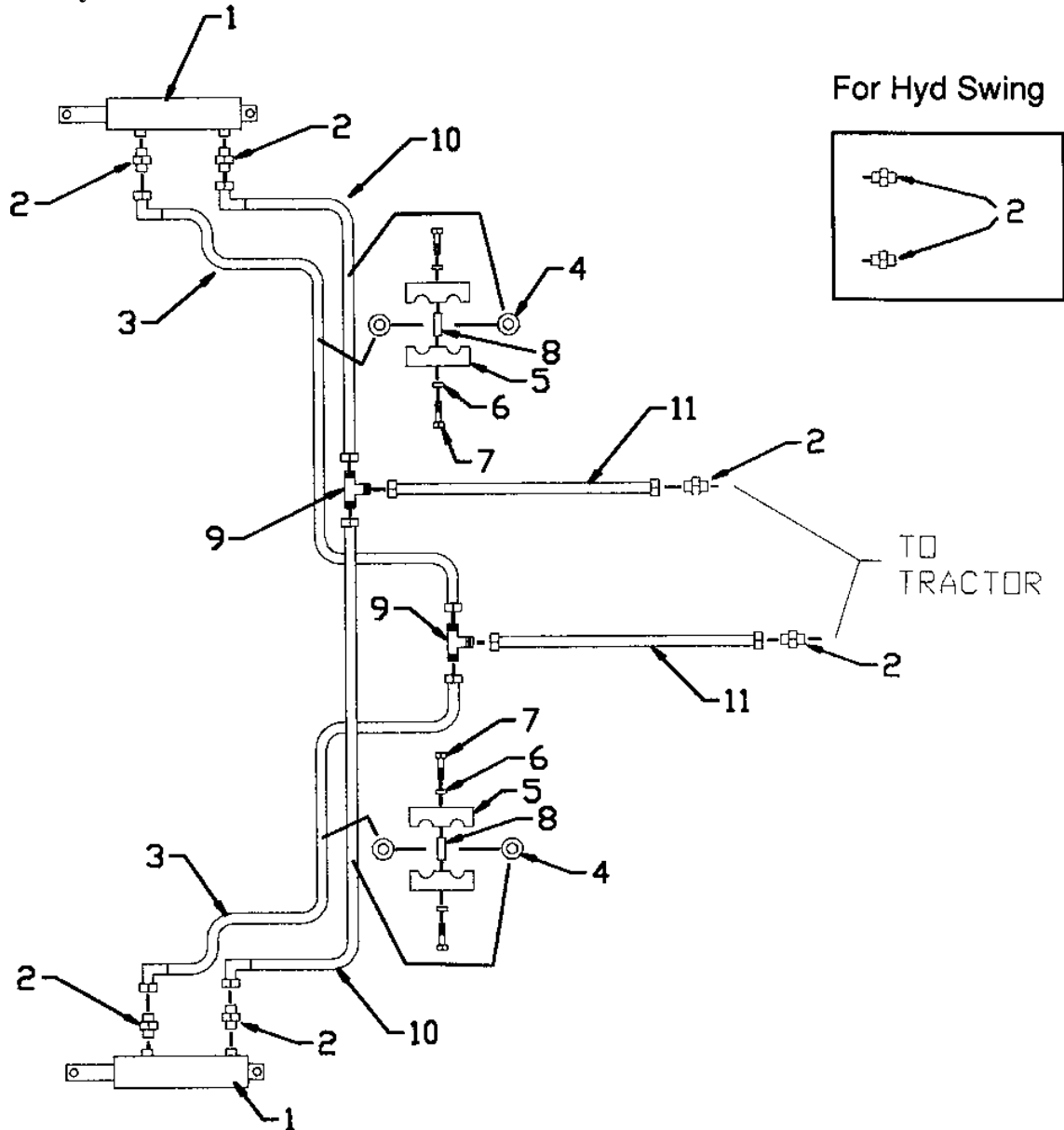
# Tractor Mount



Ref	Part	Qty	Description	Ref	Part	Qty	Description
1.	07-0085	1	Screw, HHC, GR2, 3/4-10 x 3"	16.	13-3765	1	Weldment, QA Frame
2.	07-0206	2	Pin, Cotter, GR2, 3/16" x 2", PL	17.	13-3759	8	Bushing, Spacer
3.	07-0671	8	Pin, Roll, GR2, 5/16" x 2"	18.	03-1330	2	Cylinder, Hydraulic
4.	07-0786	4	Pin, Cotter, GR2, 3/16" x 1-1/2", PL	19.	13-4224	1	Weldment, Case 885 Frame Mounting
5.	07-2104	1	Toplink, Ratchet, 1" Pins		13-7054	1	Weld, Frame, Mtg, LA, JD 2555
6.	07-2105	1	Pin, Lock, 3/8", SQ, Bail		13-4767	1	Weld, Frame, Mtg, LA, Magnum 7110
7.	07-2484	1	Toplink, 5/8" Balls		13-4280	1	Weld, Frame, Mtg, LA, Case 685 Utility Bolster
8.	12-0292	4	Weldment, Hitch Pin	20.	13-3761	2	Weldment, Dismount Pin
9.	12-0296	4	Weldment, Link	21.	07-0244	2	Pin, Clik
10.	13-2218	1	Weldment, Swing Plate	22.	13-3681	1	Weld, Frame, Swing
11.	13-2230	1	Bushing, 1-3/4", w/Holes	23.	13-3758	4	Weldment, Pin
12.	13-4199	1	Weldment, Inner Link	NS.	07-1977	2	Assembly, Caster
13.	13-4200	1	Weldment, Outer Link				
14.	13-2484	1	Pin, 1" x 3-3/4", w/Holes				
15.	13-3413	2	Weldment, Mounting Pin				

# Vertical Lift, Tractor Mount

**Assembly 28-4258**

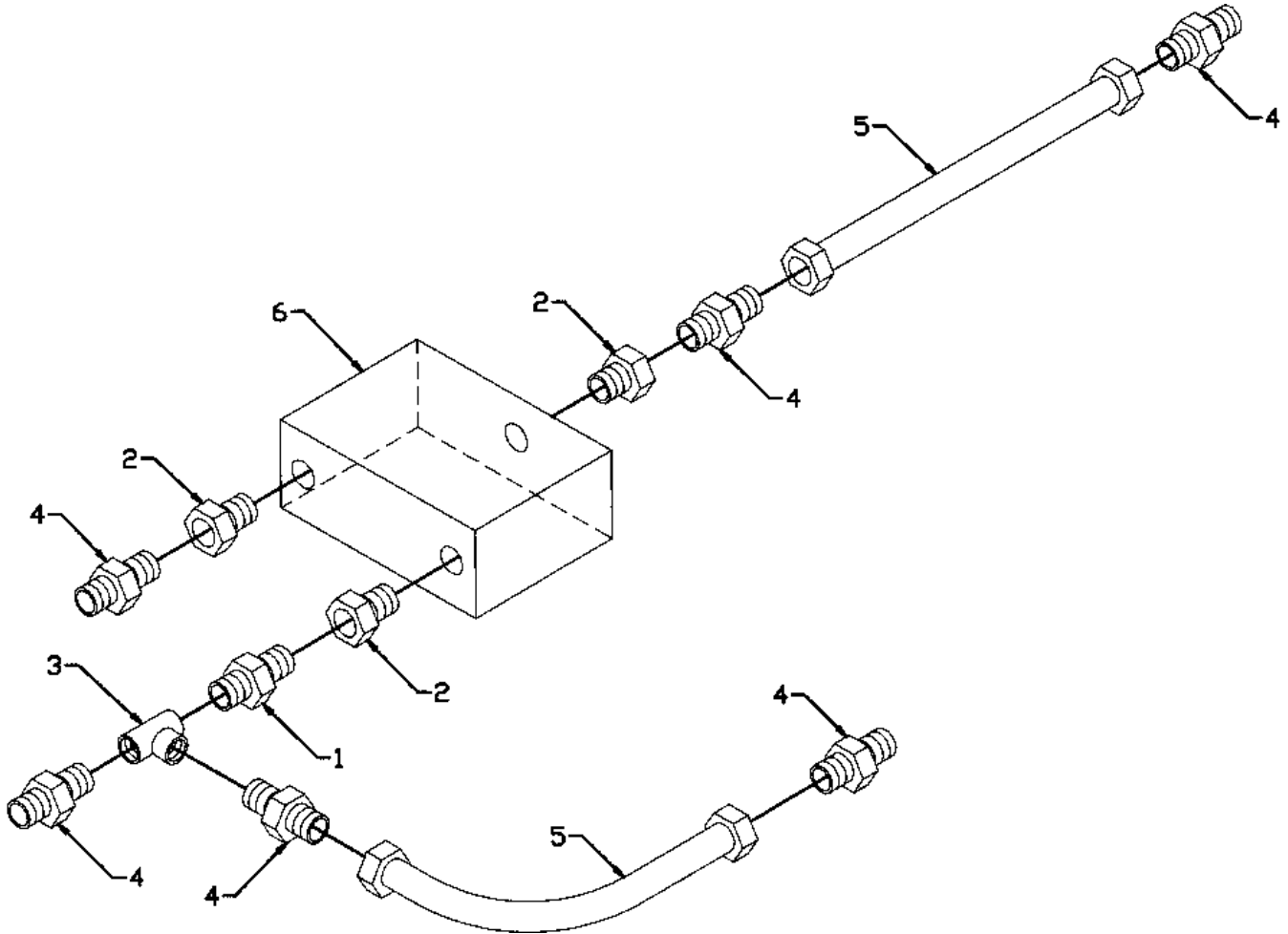


Ref	Part	Qty	Description
1.	03-1330	1	Cylinder, JD, 2" x 10"
2.	03-2159	8	Fitting, Adaptor, HP, 3/8" MFS, 1/4" MP
3.	03-2271	2	Hose, 3/8" x 24", 2W, 3/8" FFS, 90°, FFS
4.	03-1931	4	Bushing, Split, 3/4"
5.	03-0784	4	Clamp, Hydraulic, 2 Pos
6.	07-0167	4	Washer, Lock, 5/16"
8.	03-0788	4	Nut, Stake, Socket Head
9.	03-2252	2	Fitting, Tee, HP, 3/8" FFS
10.	03-2352	2	Hose, 3/8" x 32", 2W, 3/8" FFS, 90°, 3/8" FFS
11.	03-2342	2	Hose, 3/8" x 144", 2W, 3/8" FFS

**NOTE:** Only 12 ft (3.7 m) of hose with pipe thread fittings is supplied with the LA and LA Tractor Mount sweepers. Customers supply hoses from fittings to tractor remotes.

# Flow Divider

## Kit 11-5307



Ref	Part	Qty	Description
1.	03-1022-10	1	Fitting, Nipple, HP, Hex, 3/4" MP—3/4" MP
2.	03-1068-13	3	Fitting, Reducer Bushing, HP, 1"—3/4"
3.	03-1312	1	Fitting, Tee, HP, 3/4" FP, All Ends
4.	03-1943	6	Fitting, Adaptor, HP, 3/4" MFS—3/4" MP
5.	03-1963	2	Hose, 3/4" x 56", 2W, 3/4" FFS—3/4" FFS
6.	03-2012	1	Valve, Flow Divider, BG421, 21 GPM/40 GPM

# Metric Conversion

## Conversion Factors

### U.S. to Metric

TO CHANGE	TO	MULTIPLY BY
Inches .....	Centimeters .....	2.540
Feet .....	Meters .....	0.305
Yards .....	Meters .....	0.914
Miles .....	Kilometers .....	1.609
Square Inches .....	Square Centimeters .....	6.451
Square Feet .....	Square Meters .....	0.093
Square Yards .....	Square Meters .....	0.836
Cubic Feet .....	Cubic Meters .....	0.028
Cubic Yards .....	Cubic Meters .....	0.765
Fluid Ounces .....	Milliliters .....	29.573
Pints .....	Liters .....	0.473
Quarts .....	Liters .....	0.946
Gallons .....	Liters .....	3.785
Pounds .....	Kilograms .....	0.454
Pound-Feet .....	Newton-Meters .....	1.356
Pounds per Square Inch .....	Bar .....	0.070
Miles per Hour .....	Kilometers per Hour .....	1.609

### Metric to U.S.

TO CHANGE	TO	MULTIPLY BY
Centimeters .....	Inches .....	0.394
Meters .....	Feet .....	3.280
Meters .....	Yards .....	1.094
Kilometers .....	Miles .....	0.621
Square Centimeters .....	Square Inches .....	0.155
Square Meters .....	Square Feet .....	10.764
Square Meters .....	Square Yards .....	1.196
Cubic Meters .....	Cubic Feet .....	35.315
Cubic Meters .....	Cubic Yards .....	1.308
Milliliters .....	Fluid Ounces .....	0.034
Liters .....	Pints .....	2.113
Liters .....	Quarts .....	1.057
Liters .....	Gallons .....	0.264
Kilograms .....	Pounds .....	2.205
Newton-Meters .....	Pound-Feet .....	0.738
Bar .....	Pounds per Square Inch .....	14.500
Kilometers per Hour .....	Miles per Hour .....	0.621

### **Linear Measure**

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches  
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches  
 1 Kilometer = 1000 Meters = .0621 Miles

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces  
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

### **Cubic Measure**

1 Cubic Centimeter = 1000 Cubic Millimeters = 0.06 Cubic Inches  
 1 Cubic Meter = 1,000,000 Cubic Centimeters = 35.31 Cubic Feet

### **Weights**

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces  
 1 Kilogram = 1000 Grams = 2.2 Pounds  
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

### **Square Measure**

1 Square Centimeter = 100 Square Millimeters = 0.155 Square Inches  
 1 Square Meter = 10,000 Square Centimeters = 10.76 Square Feet  
 1 Square Kilometer = 1,000,000 Square Meters = 0.386 Sq Miles



### **Temperature**

$5/9 (^{\circ}\text{F} - 32) = ^{\circ}\text{C}$   
 $9/5 ^{\circ}\text{C} + 32 = ^{\circ}\text{F}$   
 212° Fahrenheit = 100° Celsius  
 90° Fahrenheit = 32.2° Celsius  
 32° Fahrenheit = 0° Celsius

### **Liquid Measure**

# Torque Values

## BOLT TORQUE SPECIFICATIONS

Bolt Size	Coarse Thread*	Grade 5 	Grade 8 
(Inches)	(Per Inch)	(Torque in Foot-Pounds)	
1/4	20	10	14
5/16	18	19	29
3/8	16	33	47
7/16	14	54	78
1/2	13	78	119
9/16	12	114	169
5/8	11	154	230
3/4	10	257	380
7/8	9	382	600
1	8	587	700
1-1/8	7	794	1430
1-1/4	7	1105	1975
1-3/8	6	1500	2650
1-1/2	6	1775	3200

\* To determine the torque for a fine-thread bolt, increase ratings by 9%.

## AFFECT OF LUBRICATION ON TORQUE

Lubricant	(Torque Rating in Foot-Pounds)	
	5/16-18 Thread	1/2-13 Thread
No Lubricant	29	121
Plated & Cleaned	19 (66%)**	90 (26%)**
SAE 20 Oil	18 (38%)**	87 (28%)**
SAE 40 Oil	17 (41%)**	83 (31%)**
Plated & SAE 30	16 (45%)**	79 (35%)**
White Grease	16 (45%)**	79 (35%)**
Dry Moly Film	14 (52%)**	66 (45%)**
Graphite & Oil	13 (55%)**	62 (49%)**

\*\*Use lubrication percentage to calculate the approximate decrease in torque rating for other bolt sizes.

# Warranty Information

## SWEEPSTER WARRANTY REGISTRATION

*Thank you for purchasing a Sweepster product.* Warranty protection on this equipment is valid only when completed and signed by customer and dealer and mailed to SWEEPSTER. If you have any questions, please give us a call at 1-800-456-7100 or (734) 996-9116.

**PLEASE PRINT - PRESS HARD MULTIPLE COPIES**

*Purchaser's Name*

\_\_\_\_\_ Address \_\_\_\_\_ City \_\_\_\_\_

\_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

Model Number \_\_\_\_\_ Serial Number \_\_\_\_\_  
 Engine Make \_\_\_\_\_ Engine Model \_\_\_\_\_  
 Date Delivered to Dealer \_\_\_\_\_ Date Delivered to Customer \_\_\_\_\_

*Dealer's Name*

\_\_\_\_\_ Address \_\_\_\_\_ City \_\_\_\_\_

\_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

White-Customer Yellow-Dealer Card-Return to Sweepster postage paid

Form: SWR Rev 4/97

1. MATERIAL YOU ARE SWEEPING?

- Snow  Dirt  General Debris  Thatch  
 Other \_\_\_\_\_

2. MAKE AND MODEL NUMBER OF PRIME MOVER.

(For attachment sweepers only.) \_\_\_\_\_

3. DID YOU OR YOUR CUSTOMER RECEIVE AN OPERATION/PARTS MANUAL?  Yes  No

4. DID THE UNIT FIT CORRECTLY TO PRIME MOVER?

- Yes  No Comments \_\_\_\_\_

5. WHY DID YOU PURCHASE A SWEEPSTER? (check one)

- Quality  Price  Reputation  Simplicity  Prior Use  
 Dealer Referral  Operation  Features  Availability  
 Other \_\_\_\_\_

6. PLEASE RATE THE FOLLOWING (check one)

- Appearance:  Excellent  Good  Poor  
 Delivery Time:  Excellent  Good  Poor  
 Sales Service:  Excellent  Good  Poor  
 Performance:  Excellent  Good  Poor  
 Technical Support:  Excellent  Good  Poor

7. SUGGESTIONS/COMMENTS? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## SWEEPSTER Limited Six Month Warranty

For a period of six (6) months from date of delivery of product to the original user, Sweepster, Inc. of Dexter, Michigan warrants each product to be free from manufacturing defects, subject to the limitations contained in this policy.

This warranty does not apply to defect caused, in whole or in part, by unreasonable use while in the possession of the user, including, but not limited to: failure to properly set up product; failure to provide reasonable and necessary maintenance; normal wear; routine tune ups or adjustments; improper handling or accidents; operation at speed or load conditions contrary to published specifications; improper or insufficient lubrication; improper storage. This warranty is also not a guarantee that the performance of each product will meet the expectations of the purchaser.

Sweepster, Inc. shall not be liable for consequential damages of any kind, including, but not limited to: consequential labor costs or transportation charges in connection with the replacement of repair of defective parts; lost time or expense which may have accrued because of said defects. In no event shall Sweepster, Inc.'s total liability hereunder exceed the product purchase price.

Sweepster, Inc. makes no warranty with respect to trade accessories or any component or accessory of the product which was not manufactured by Sweepster, Inc. including any purchased components of any kind. These are subject to the warranties of their respective manufacturers. The warranty will be considered void if the product or any part of the product is modified or repaired in any way not expressly authorized by Sweepster, Inc., or if closed components are disassembled prior to return. Closed components include, but are not limited to: gearboxes, hydraulic pumps, motors, cylinders, and actuators.

Our obligation under the warranty is expressly limited, at our option, to the replacement or repair at Sweepster, Inc. of Dexter, Michigan, or at a service facility designated by us, or such part or parts as inspection shall disclosed to have been defective. We are not responsible for unauthorized repairs or replacements. Any implied or statutory warranties, including any warranty of merchantability or fitness for a particular purpose, are expressly limited to the duration of this written warranty. We make no other express warranty, nor is anyone authorized to make any in our behalf. This warranty cannot be extended, broadened, or changed except in writing by an authorized officer of Sweepster, Inc.