SWEEPSTER

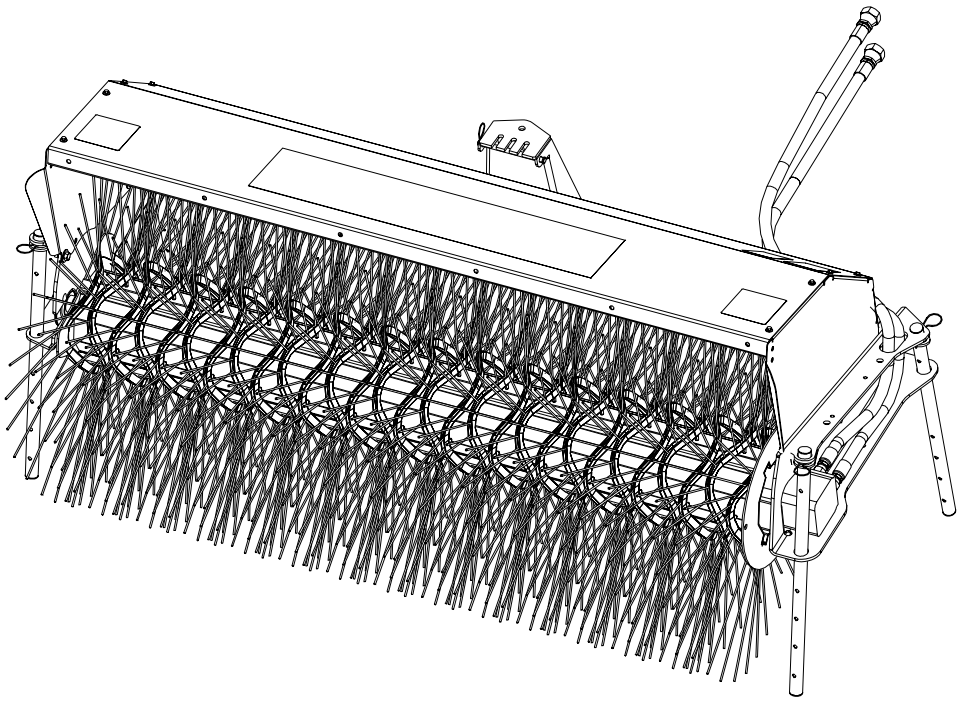
S26 & S30 Series

CTH, MRH & MRHL

Hydraulic Windrow Sweepers

BRADCO
FFC
HARLEY
THE MAJOR
McMILLEN
SWEEPSTER

PALADIN LIGHT CONSTRUCTION



Sweepster Serial Number_____

Manual Number: 51-3883
Release Date: March 2005

800-456-7100 www.paladinbrands.com Sweepster 2800 N. Zeeb Rd. Dexter, MI. 48130 United States of America

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Installation

S26 & S30 Series Angle Brooms

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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 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 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, LLC.

SWEEPSTER, LLC.
2800 North Zeeb Road
Dexter, Michigan 48130
Phone: (734) 996-9116 - (800) 456-7100
FAX: (734) 996-9014
e-mail: 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

Terms Used in Manual

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.

Prime mover refers to the tractor, truck, loader or tow vehicle that the sweeper is mounted on or towed by.

Optional Equipment

Installation instructions for optional equipment, if applicable, appear in the Service Manual Section.

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, LLC.

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

Four hazard classifications are used in this manual. They are

DANGER - Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

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

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

CAUTION - 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 operating sweeper:

- 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. See Maintenance Section
- Make sure all hydraulic hardware and hydraulic fittings are tight.
- Replace any damaged or fatigued fittings or hoses.
- Check prime mover tire pressure before sweeping or operating. Improper tire pressure can affect sweeping performance.
- 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 flying debris.
- Be sure all persons not operating the sweeper are clear of the sweeper discharge area.
- Always wear proper apparel such as a long-sleeved shirt buttoned at the cuffs; safety glasses, goggles or a face shield; ear protection; and a dust mask.

While operating sweeper:

- When operating sweeper, 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,

- Before leaving the operator's area for any reason, lower the sweeper to the ground. Stop the prime mover engine, set the parking brake and remove the key from the ignition.
- Minimize flying debris - use the slowest rotating speed that will do the job. See Operation Section: Operating Tips
- Keep hands, feet, hair and loose clothing away from all moving parts.
- Leave the brush hood (shield) and all other shields and 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. See Product Information Section: Operating the Sweeper.
- 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.
- Only operate the sweeper while you are in the operating position. The safety restraint must be fastened while you operate the prime mover. Only operate the controls while the engine is running. Protective glasses must be worn while you operate the prime mover and while you operate the sweeper.
- While you operate the sweeper slowly in an open area, check for proper operation of all controls and all protective devices. Note any needed repairs during operation of the sweeper. Report any needed repairs.

Service & Repair - General

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

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

Before adjusting or servicing - lower the sweeper to the ground, set parking brake, shut down the prime mover and remove the key from the ignition.

When working on or around the sweeper, safely secure it from falling or shifting.

Service & Repair - Hydraulic Safety

Stop the prime mover engine and release hydraulic pressure before servicing or adjusting sweeper hydraulic systems.

WARNING - Escaping hydraulic fluid can have enough pressure to penetrate the skin, causing serious personal injury.

Check lines, tubes and hoses carefully. Do not use your hand to check for leaks. Use a board or cardboard to check for leaks. Tighten all connections to the recommended torque. See Appendix.

Do not bend high pressure lines. Do not strike high pressure lines, Do not install bent lines, bent tubes, or kinked hoses. Do not install damaged lines, damaged tubes, or damaged hoses.

Repair loose lines, loose tubes, and loose hoses. Repair damaged lines, damaged tubes, and damaged hoses. Leaks can cause fires. See your SWEEPSTER, LLC dealer for repair or replacement parts.

Replace the parts if any of the following conditions are present:

•The end fittings are damaged or leaking.

•The outer covering is chafed or cut.

•The reinforcing wire layer is exposed.

•The outer covering is ballooning locally.

•The hose is kinked or crushed.

•The hoses have been pulled or stretched.

Make sure that all clamps, guards, and shields are installed correctly.

Notes

Safety Signs and Labels

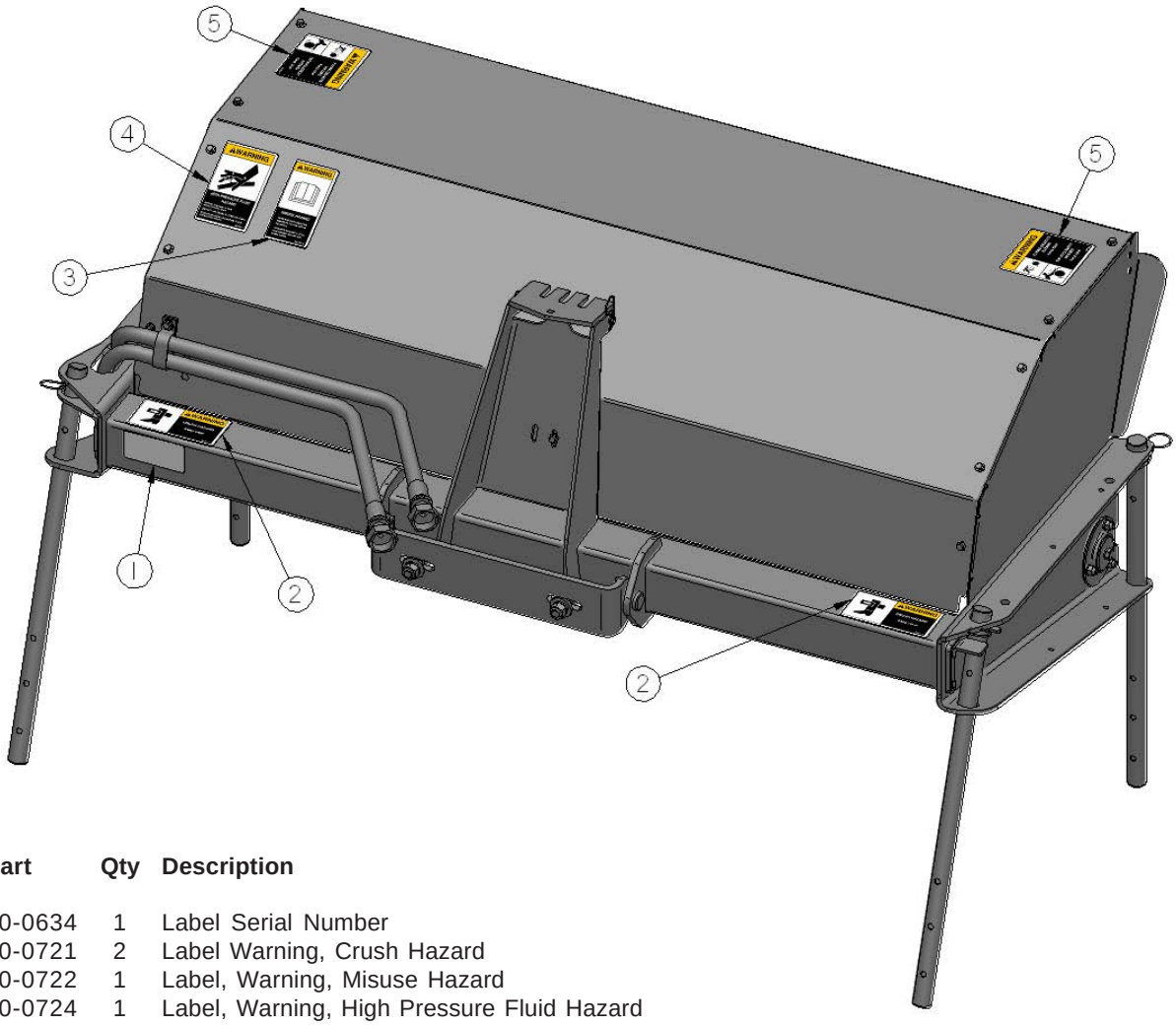
There are several specific safety signs on this sweeper. The exact location of the hazards and the description of the hazards are reviewed in this section.

Placement or Replacement of Safety Signs

1. Clean the area of application with nonflammable solvent, and then wash the same area with soap and water.
2. Allow the surface to fully dry.
3. Remove the backing from the safety sign, exposing the adhesive surface.
4. Apply the safety sign to the position shown in the diagram above and smooth out any bubbles.

Instructions

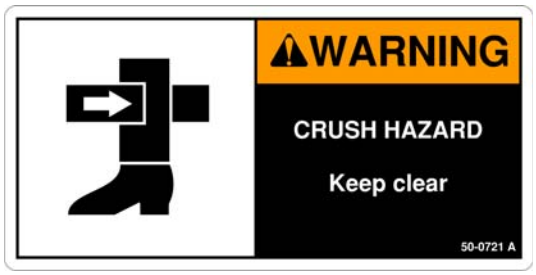
- Keep all safety signs clean and legible.
- Replace all missing, illegible, or damaged safety signs.
- Replacement parts, for parts with safety signs attached, must also have safety signs attached.
- Safety signs are available, free of charge, from your dealer or from SWEEPSTER, LLC.



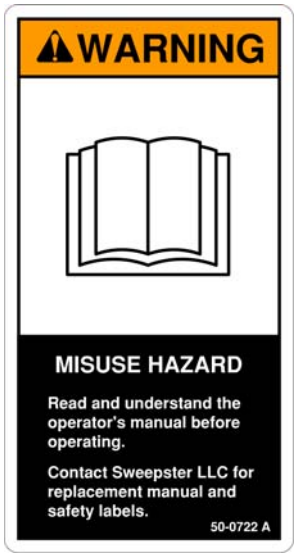
Item	Part	Qty	Description
1.	50-0634	1	Label Serial Number
2.	50-0721	2	Label Warning, Crush Hazard
3.	50-0722	1	Label, Warning, Misuse Hazard
4.	50-0724	1	Label, Warning, High Pressure Fluid Hazard
5.	50-0726	2	Label, Warning, Flying Objects & Entanglement

Safety Signs and Labels

1. 50-0634



2. 50-0721



3. 50-0722

4. 50-0724

5. 50-0726

NOTE - S26 Series sweepers are designed to fit tractors and loaders with hydraulic capacities of 10-18 gpm and up to 3000 psi. For higher flow or pressure systems, contact SWEEPSTER, LLC. or your dealer to purchase a flow divider and /or pressure relief valve.

MRHL on Loader Without Quick Attach Mounting

To install the mounting/swing assembly on a loader without a quick attach mounting, follow these instructions.

1. Remove the bucket or other attachment from the loader arms.

2. Center the mounting/swing assembly in front of the loader arms.

3. Position the mounting ears on either side of the loader arms. Tighten the mounting ear bolts.

NOTE - Because of the many pin sizes used by loader manufacturers, you may need to drill out or add bushings to the mounting ears

4. Attach the mounting/swing assembly to the loader arms with mounting pins. Secure mounting pins with ring pins

5. Wrap the adjustment chain (figure 1) around the loader's cross bar.

   CAUTION - Avoid hydraulic system damage. Make sure that the chain will not crush any hydraulic lines.

6. Adjust the loader height until the assembly is 12 inches (305 mm) above the ground (figure 1). Then, level the mounting/swing assembly by tightening or loosening the adjustment chain.

NOTE - The mounting/swing assembly must be level for the sweeper to operate properly when angled.

7. Position the brush head assembly in front of the mounting/swing assembly.

8. Attach the brush head assembly to the front of the swing plate with 2, 1/2 inch carriage bolts, flat washers, lock washers and nuts.

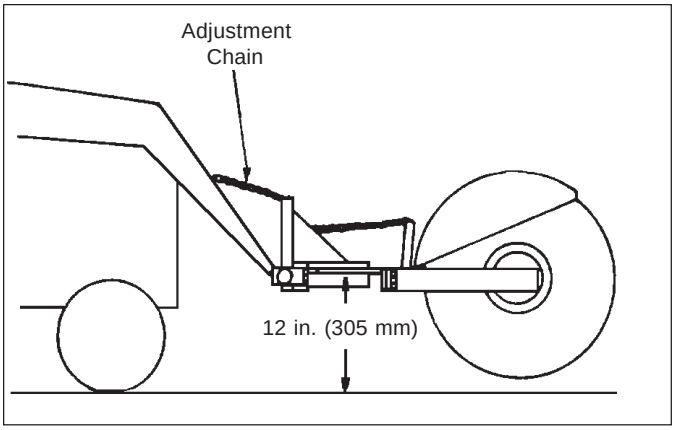


figure 1

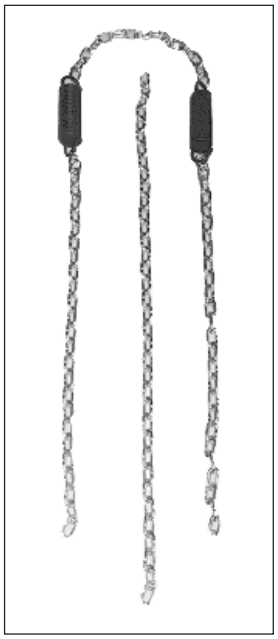


figure 2

9. Install the spring-chain assembly. To do so:

NOTE - Refer to figure 2 during installation.

   a. Connect a spring to each end of a 26-link chain.

   b. Place a 26-link chain on each spring.

   c. Attach the free ends of the 26-link chains to the brackets on the mounting frame.

   d. Loop the other end of the spring-chain assembly over the outside slots on the brush head upright.

10. Install the 36-link transport chain by placing 1 end in the center slot of the brush head upright and the other end on the bracket on the mounting frame.

11. Refer to Section 2/Operation/Leveling.

MRHL on Loader with Quick Attach Mounting

To attach the mounting/swing assembly to a loader with a quick attach mounting, follow these instructions:

1. Remove the bucket or other attachment from the loader.

2. Center the mounting/swing assembly in front of the loader

3. Attach the mounting/swing assembly to the loader's quick attach. Lock the quick attach.

4. Level the mounting/swing assembly with the loader's tilt cylinders. Then, adjust the loader height until the assembly is 12 inches (305 mm) above the ground.

NOTE - The mounting/swing assembly must be level for the sweeper to operate properly when angled.

5. Position the brush head assembly in front of the mounting/swing assembly.

6. Attach the brush head assembly to the front of the swing plate with 2, 1/2inch carriage bolts, flat washers, lock washers and nuts.

7. Install the spring-chain assembly. To do so:

NOTE - Refer to figure 2 during installation.

   a. Connect a spring to each end of a 26-link chain.

   b. Place a 26-link chain on each spring.

   c. Attach the free ends of the 26-link chains to the brackets on the mounting frame.

   d. Loop the other end of the spring-chain assembly over the outside slots on the brush head upright.

8. Install the 36-link transport chain by placing 1 end in the center slot of the brush head upright and the other end on the bracket on the mounting frame.

9. Refer to Section2/Operation/Leveling

MRH/CTH on Tractor

1. Install the mounting assembly (figure 1) according to instructions on the sheet included with that part.

2. Position the swing assembly in front of the mounting assembly (figure 1).

3. Fasten the swing assembly to the mounting assembly.

4. Position the brush head assembly in front of the swing assembly (figure 1).

5. Fasten the brush head assembly to the swing assembly with 2, 1/2 inch carriage bolts, flat washers, lock washers and nuts.

NOTE - The measurement from the ground to the middle of the brush head tube should be 12 inches (305 mm), use either the top or bottom set of slots depending on the tractor height.

6. Install the spring-chain assembly by following the set of instructions that applies to your sweeper.

For Units with Hydraulic Power Pack (11-17176) or Hydraulic Lift (11-17410)

NOTE - Refer to figures 2 and 3 during installation.

a. Attach a spring to each end of a 10-link chain.

b. Connect 1 end of the 26-link chain to 1 spring.

c. Pass the other end of the 26-link chain through the front eye on the swing assembly.

d. Attach the 26-link chain to the other spring.

e. Loop the 10-link chain on the outside slots of the brush head upright.

f. Attach the second 10-link chain to the cylinder's rod end with a shackle. Place the other end of the 10-link chain in the center slot of the brush head upright.

g. Attach the cylinder's barrel end to the rear eye of the swing assembly with a shackle.

h. Connect the adapter fitting and hose to the port on the cylinder's rod end.

i. Connect the vent fitting and hose to the port on the cylinder's barrel end.

CAUTION - Avoid cylinder damage. Bleed air out of the cylinder before use.

NOTE - Go to Adjustments: Leveling.

For Units with Electric Lift (11-4370)

NOTE - Refer to figure 4 during installation.

a. Attach a spring to 1 end of each 7-link chain.

b. Connect the springs to the holes in the swing assembly upright.

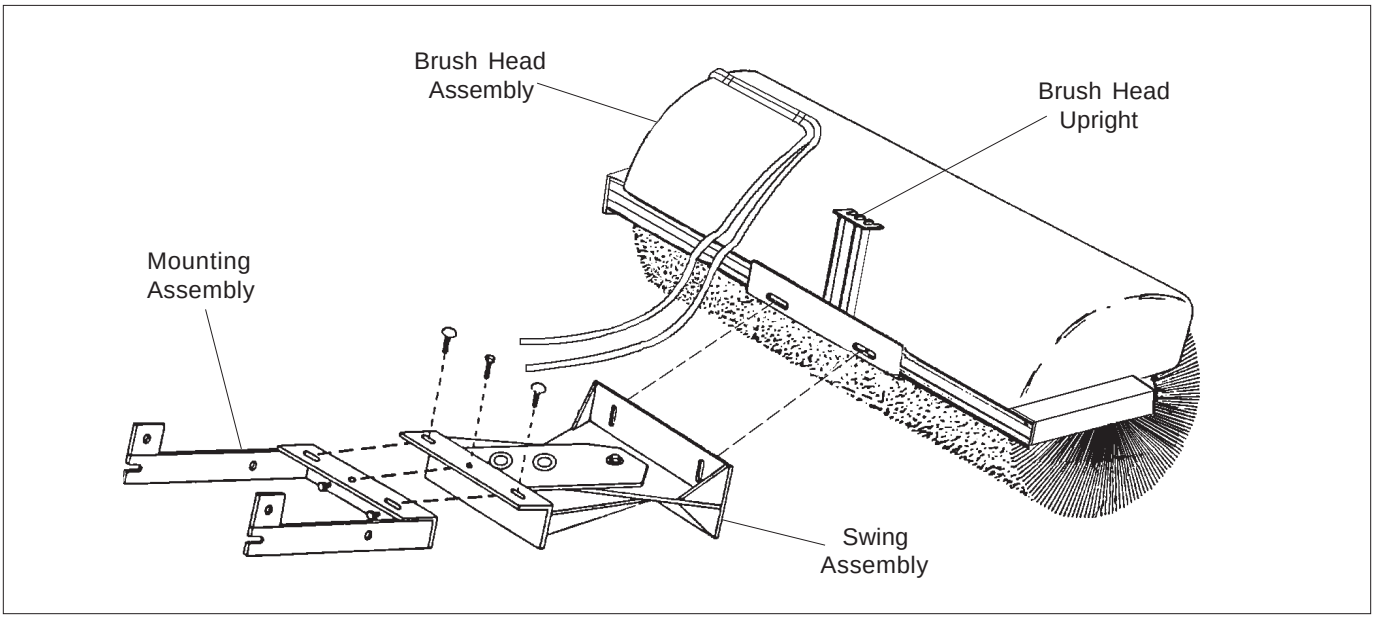


figure 1

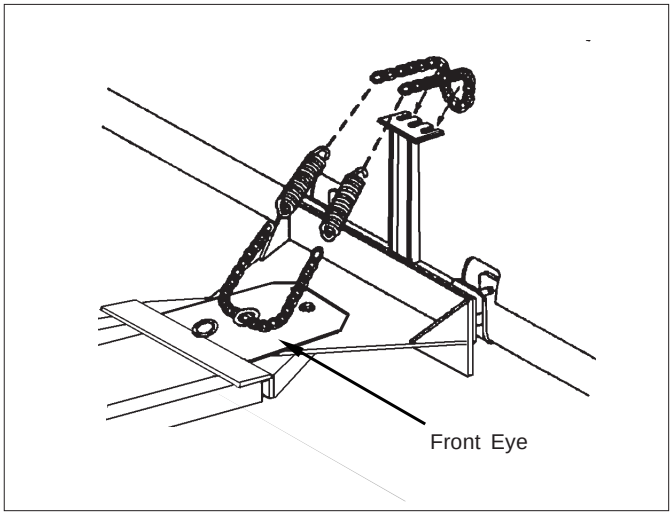


figure 2

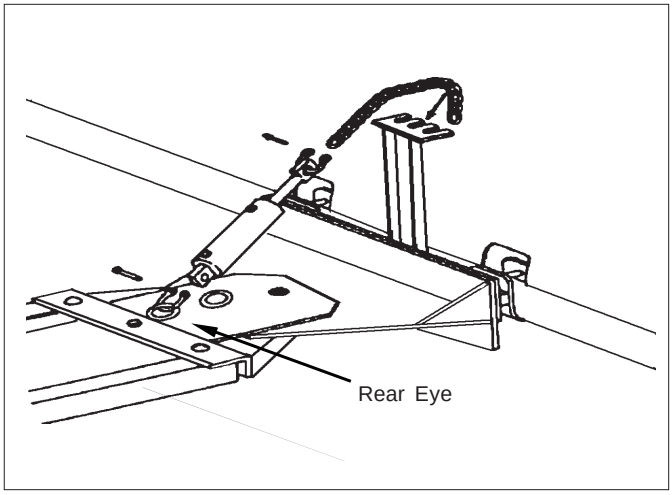


figure 3

figure 4

c. Place chains in the outside slots on the brush head upright.

d. Install the lift cable by feeding it though the center hole in the brush head upright. Loop the loose end around and secure it with a cable clamp. Loop the other end through the center hole in the swing assembly upright; secure with a cable clamp (figure 5).

CAUTION - Install cable clamps as shown in figure 5; otherwise the cable could slip, possibly damaging the sweeper or injuring the operator.

NOTE - Refer to Section 2/Operation/Leveling.

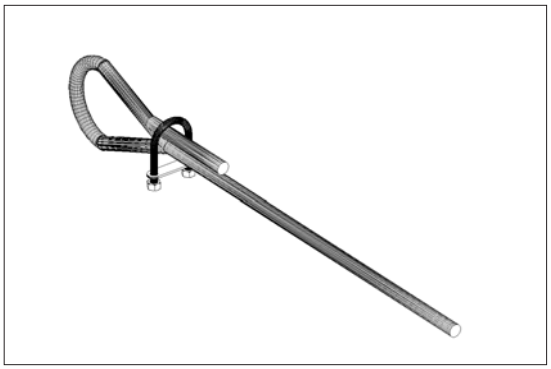


figure 5

For CTH Units that Include Assembly 11-17174

NOTE - Refer to figure 1 during installation.

a. Assemble 2, 26-link chains and 2 springs into a spring-chain assembly as shown in figure 1.

b. Loop 1, 26-link chain on the outside slots of the brush head upright.

c. Loop the other 26-link chain on the outside slots of the swing assembly upright.

d. Install the 36-link transport chain by placing 1 end in the center slot of the brush head upright and the other end in the center slot in the swing assembly upright.

NOTE - Refer to Section 2/Operation/Leveling.

For Units that Include Assembly 11-17174 & Lift System within Mounting Assembly

NOTE - Refer to figure 2 during installation.

a. Assemble 2, 26-link chains and 2 springs into a spring-chain assembly as shown in figure 2.

b. Loop the chain on the outside slots of the brush head upright and swing assembly upright.

c. Install the lift cable by feeding it through the center hole in the brush head upright. Loop the loose end around and secure it with a cable clamp (figure 3).

d. Attach the other end of the cable to the lift actuator system. (If the mounting assembly includes a welded link, then thread the cable through the link before attaching it to the lift actuator system.)

CAUTION - Avoid injury or sweeper damage. Install cable clamps as shown in figure 3; otherwise the cable could slip, possibly damaging the sweeper or injuring the operator.

NOTE - Refer to Section 2/Operation/Leveling.

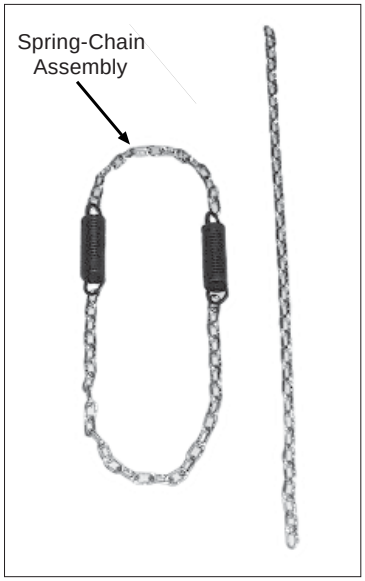


figure 1

figure 2

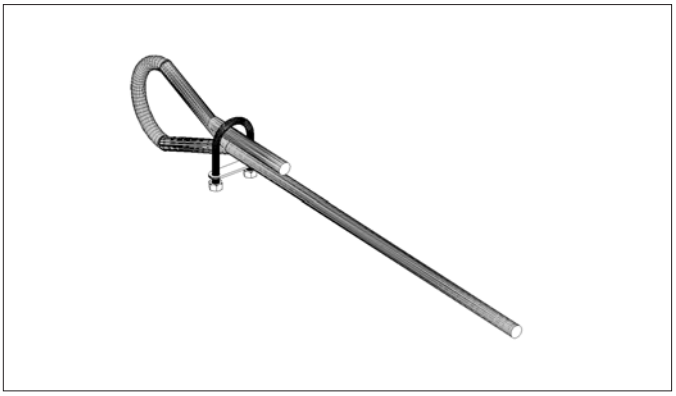


figure 3

Electric Lift

NOTE - Not all sweepers use electric lift.

1. Locate a convenient area on the prime mover dash to mount the lift switch.

NOTE - Some units include a bracket for mounting the lift switch. Refer to specific instructions included with the mounting assembly.

CAUTION - Avoid damage to the prime mover. Before drilling, make sure that you will not drill into wires or other parts. Disconnect battery.

2. Mark the lift switch location with a punch. Drill a pilot hole with a 1/4 inch bit; then, drill the finish hole with a 1/2 inch bit.

3. Insert the switch and secure with a nut.

4. Route the control wires and connector to the front of the prime mover. If necessary, secure the wires to the tractor frame to prevent them from hanging down.

CAUTION - Avoid wire damage. Do not route wires near hot and/or moving parts.

5. Connect the red wire from the switch to the tractor power supply. Connect the yellow wire to a good ground, preferably the battery ground or tractor frame (figure 4).

CAUTION - Avoid damage to the electric lift system. Add a 13-amp, 12-volt fuse if the power supply is not fused.

6. Mount the actuator on the mounting assembly, if not installed.

7. Connect the wires from the lift switch to the actuator.

8. Verify wiring is correct, then reconnect battery.

NOTE - When replacing a wire, use a 14 gauge or heavier wire.

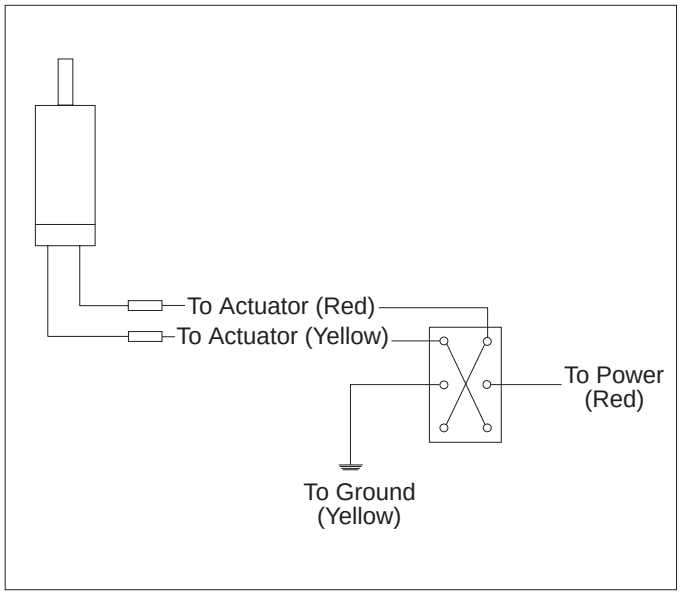


figure 4

MRH/MRHL Power Pack

The hydraulic tank can be mounted in 1 of 2 positions:

- On 3-point arms or
- Above the 3-point hitch attachment.

If you wish to use another attachment on the hitch, mount the tank above it. Otherwise, mount the tank on the 3-point arms.

<u>On 3-Point Hitch Arms</u>

Refer to figure 2 during installation.

1. Connect the mounting bracket to the hitch arms with hitch pins. Secure with ring pins.

2. Connect the hitch's top link to ears on the mounting bracket.

3. Fasten 2 mounting plates to the mounting bracket's bottom channel. Use 2, 1/2 inch carriage bolts, flat washers, lock washers and nuts.

4. Place the tank on top of the mounting plates and bolt in place with 4, 3/8 inch carriage bolts, lock washers and nuts.

5. Go to Installation: Pumps & Hoses.

<u>Above 3-Point Hitch</u>

Refer to figure 3 during installation.

1. Connect the attachment, the mounting bracket ears and the hitch's top link.

2. Assemble the support arms using 4, 3/8 inch cap screws, flat washers, lock washers and nuts.

3. Connect support arms to the hitch arms (with pins used on the hitch) and to the mounting bracket.

4. Level mounting bracket from front to back and from left to right by adjusting the support arms.

5. Install the tank on the mounting bracket with 4 carriage bolts.

6. Go to Installation: Pumps & Hoses.

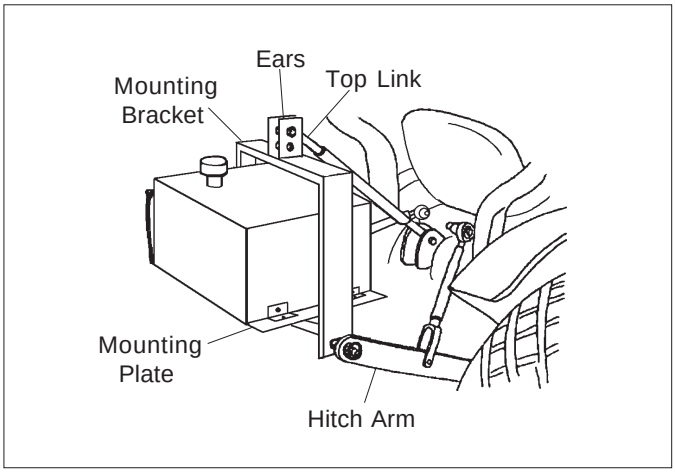


figure 2

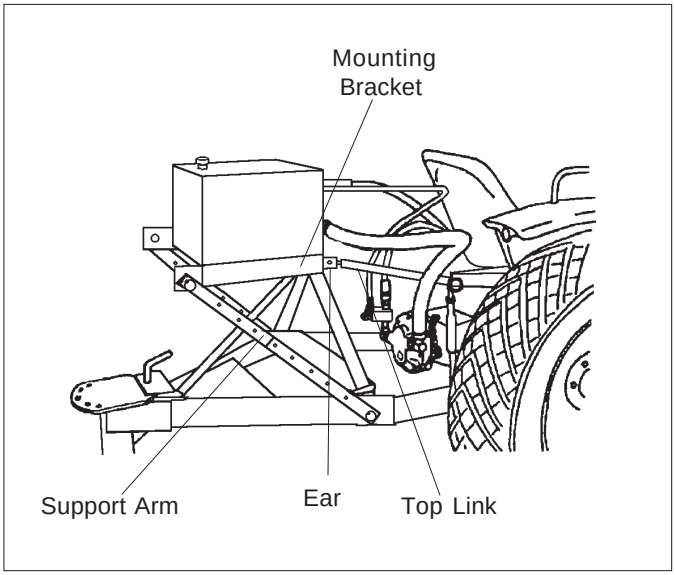


figure 3

Pump & Hoses

1. Install the relief valve and fittings on the pump. (Refer to figure 1 during installation.)

   - The 1 5/16 inch - 1 1/4 inch barb fitting goes in the pump inlet.

   - Place fittings on the pump outlet in this order: 1 1/16 inch - 3/4 inch elbow fitting in the outlet opening. 3/4 inch - 3/4 inch nipple fitting on the elbow fitting, relief valve on the nipple and 3/4 inch elbow fitting on the relief valve.

2. Slide the pump onto the tractor PTO shaft. Make sure that the relief valve is on the left-hand side.

3. Fasten the 10-link chain to the bottom threaded hole on the right-hand side of the pump. Bolt the other end of the chain to the tractor.

NOTE - This chain holds the pump on the shaft and prevents it from spinning during operation.

4. Install the 1 inch - 1 1/4 inch barb fitting in the 1 inch port on the side of the tank.

5. Connect the suction hose to the barb fitting on the pump port and to the barb fitting on the tank. Secure with hose clamps.

NOTE - If needed, cut the suction hose to length, leaving enough slack to allow the 3-point hitch to move up and down.

6. Connect 1 end of the 48 inch hose to the center port on the tank. Connect the other end to the elbow fitting on the relief valve.

7. Install the 1/2 inch - 3/4 inch nipple fitting on the tank.

8. Install the hydraulic filter assembly on the 1/2 inch - 3/4 inch nipple fitting.

NOTE - Make sure the arrow points toward the tank.

9. Connect the 156 inch, 1-wire hose to the filter assembly.

10. Connect the 156 inch, 2-wire hose to the relief valve.

11. Route both 156 inch hoses to the front of the tractor.

12. Install couplings on the 156 inch hoses.

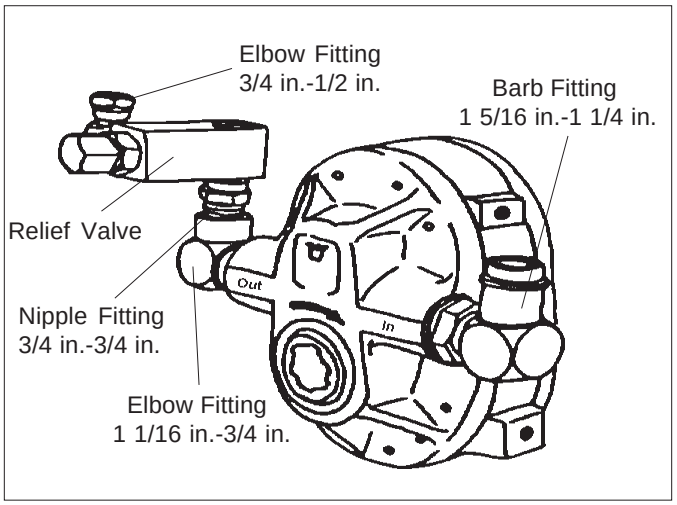


figure 1

13. Connect hoses included with the swing assembly (120 inch or 98 inch) to the hydraulic motor.

Notes

Operation and Maintenance

S26 & S30 Series Angle Brooms

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Leveling

Level your sweeper before each use for efficient sweeping and even brush wear.

MRH/CTH

1. Drive the unit to a level, paved area.
2. Move stands to highest position.
3. Lower the brush into the sweeping position with the weight of the brush head on the spring-chain assembly and the bristles just touching the ground.
4. Level the mounting/swing assembly using a level.
   - If the front of the assembly is high, turn the leveling screws clockwise to lower it.
   - If the front of the assembly is low, turn the leveling screws counterclockwise to raise it.

   See figure 2 for leveling screw locations.
5. With the brush head assembly straight ahead, measure from each end of the brush frame tubing to the ground (figure 3).
6. If the measurements are not equal, loosen hardware that attaches the brush head assembly to the swing assembly and slide the low side of the brush head assembly up in the slots on the swing assembly.
7. Repeat steps 5 and 6 until measurements are equal. Tighten the hardware.
8. Swing the brush head assembly to the right. Measure from each end of the brush frame tubing to the ground. Then, swing the brush head assembly to the left. Measure from each end of the brush frame tubing to the ground.
   - If all 4 measurements are the same, the brush head assembly is level.
   - If the measurements are not equal, adjust the mounting assembly upright. For measurements that resemble figure 4, turn the leveling bolts counter-clockwise. For measurements that resemble figure 5, turn the leveling bolts clockwise.
9. Repeat step 8 until the brush head assembly is level.

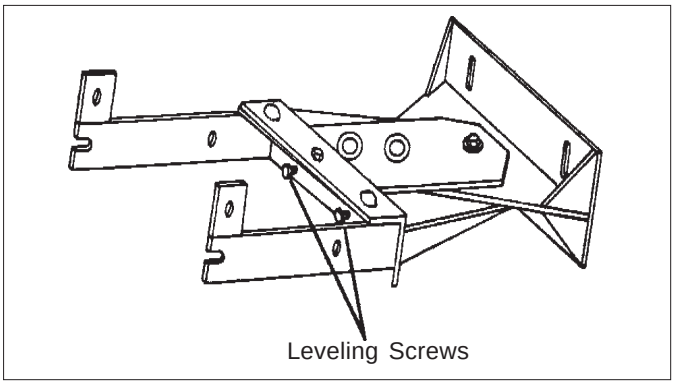


figure 2

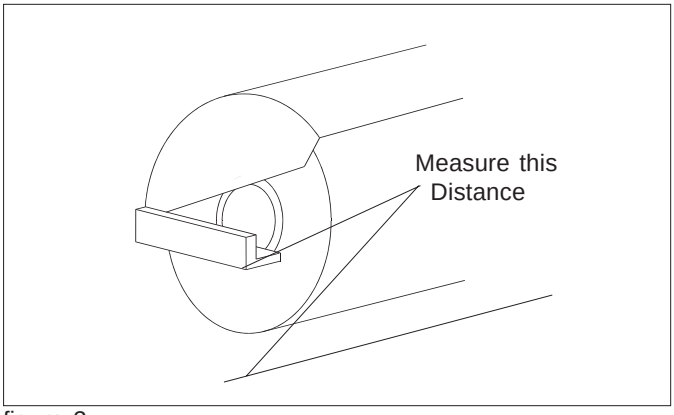


figure 3

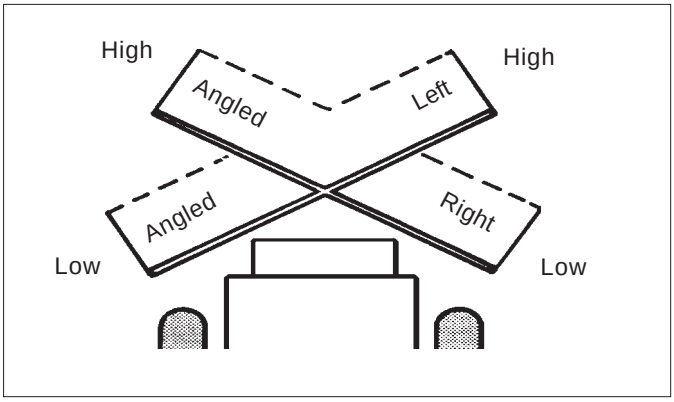


figure 4

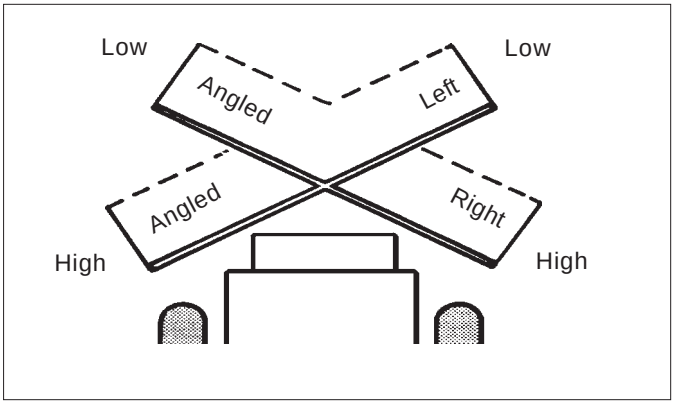


figure 5

MRHL without Quick Attach

1. Drive the unit to a level, paved area.

2. Move stands to highest position.

3. Adjust the height of the mounting/swing assembly so that between the ground and the center of the brush frame there are 12 in. (305mm) (figure 1). Contact your dealer for cylinder stops.

4. Make sure that the mounting/swing assembly upright is vertical.

5. Raise the brush head assembly and adjust the transport chain (figure 1) to hold the bristle tips 2 inches (51mm) off the ground.

6. Angle the brush head assembly to the right. Measure from each side of the brush frame to the ground (figure 2). Then, swing the brush head assembly to the left. Measure from each end of the brush frame to the ground.

   - If all 4 measurements are the same, the brush head assembly is level.

   - If the measurements are not equal, adjust the mounting assembly upright. For measurements that resemble figure 3, put more slack in the adjustment chain (figure 1), allowing the upright to angle forward slightly. For measurements that resemble figure 4, take slack from the adjustment chain, pulling the upright back. For measurements similar to figure 5, loosen bolts holding the brush head to the swing assembly and move the low end up in the slots.

7. Repeat step 6 until the brush head assembly is level.

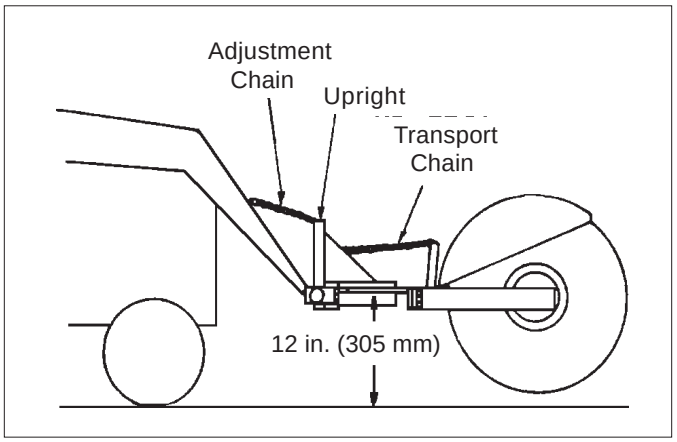


figure 1

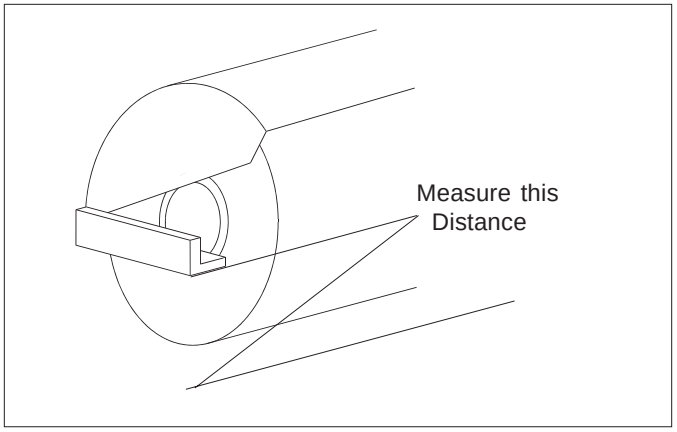


figure 2

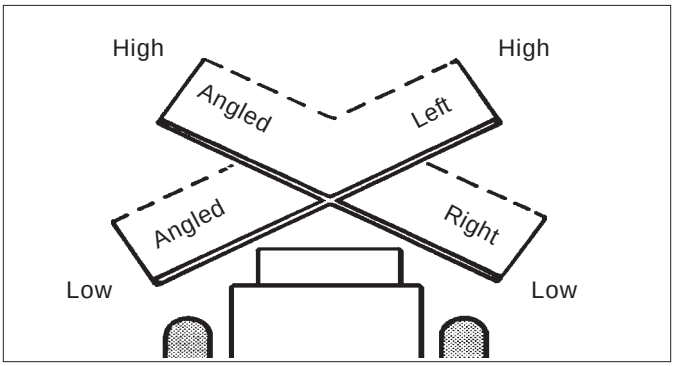


figure 3

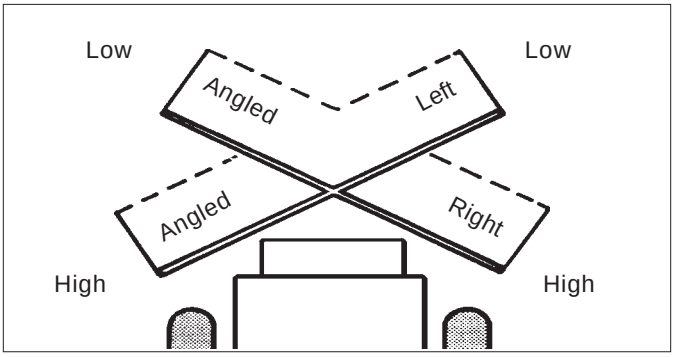


figure 4

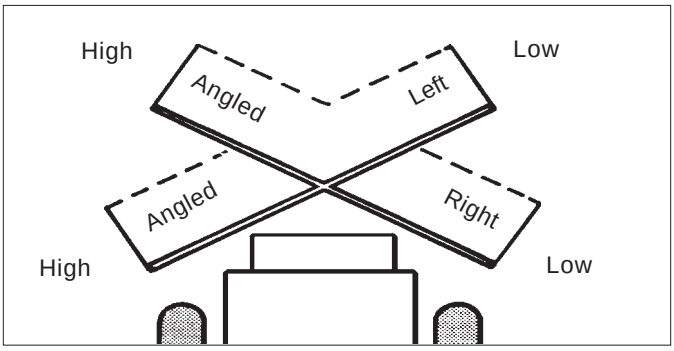


figure 5

MRHL with Quick Attach

1. Drive the unit to a level, paved area.
2. Move stands to highest position.
3. Swing the brush head assembly straight ahead, and then lower it so the bristle tips are 2 inches (51mm) above the ground.
4. On both sides of the brush head assembly, measure from the brush frame to the ground (figure 2).
   - If the measurements are equal, proceed to step 5.
   - If the measurements are not equal, loosen the outer bolts on the mounting assembly and adjust the height of 1 end until the measurements are the same. Tighten the hardware.
5. Angle the brush head assembly to the right. Measure from each side of the brush frame to the ground. Then swing the brush head assembly to the left. Measure from each end of the brush frame to the ground.
   - If all 4 measurements are the same, the brush head assembly is level.
   - If the measurements are not equal, proceed to step 6.
6. Adjust the brush head using the loader's tilt cylinders.
   - If the measurements resemble figure 3, tilt the brush head forward with the cylinders.
   - If the measurements resemble figure 4, retract the tilt cylinders.
7. Repeat steps 4 and 5 until the brush head is level.

Brush Pattern Adjustment

A properly leveled brush offers the best sweeper performance. If your unit has optional casters, see Option - Casters. To check the brush pattern for all other units:

1. Move the sweeper to a dusty, flat surface.

2. Set the prime mover's parking brake. Leave the engine running.

3. Start the sweeper at a slow speed; then, lower it completely to the surface so the bristle tips touch the ground. Run the sweeper in a stationary position for 10 seconds.

4. Raise the sweeper and back away; switch off the engine and remove the key. The brush pattern left in the dust should be 2-3 inches wide, running the length of the brush. (Compare the swept area with figure 1.)

5. If necessary, adjust the brush pattern with the spring-chain assembly (figure 2).

    a. Raise the sweeper.

    b. Tighten the transport chain (figure 2) or lift cable and lower the sweeper so it supports weight.

    c. Move the spring-chain forward in the swing assembly chain holder to lower the brush head assembly or backward in the holder to raise it.

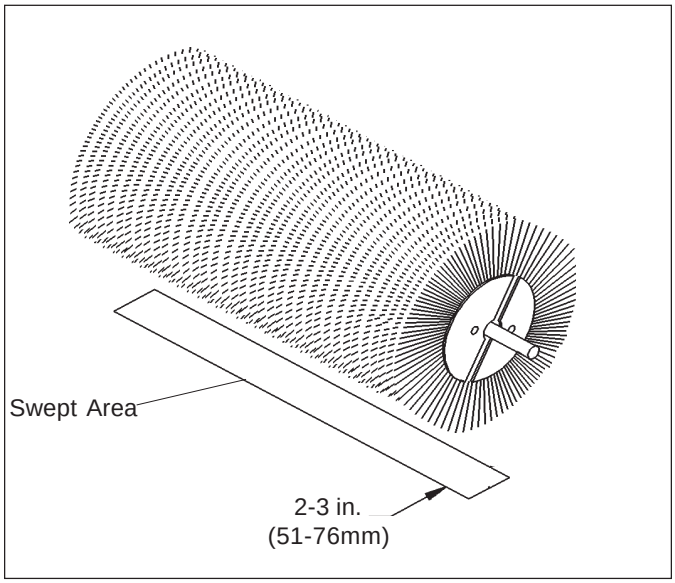


figure 1

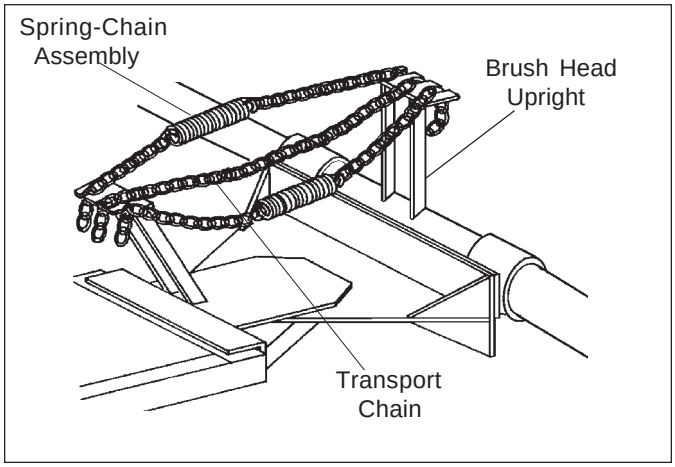


figure 2

Transport Chain

NOTE - Units with a lift cable do not have a transport chain.

The transport chain supports the weight of the brush head assembly during transport between work sites and during adjustment of the spring-chain assemblies. It should remain slack during sweeping.

To adjust the transport chain:

1. Raise the sweeper.

2. Tighten the transport chain.

3. Lower the sweeper so the transport chain supports the weight of the sweeper.

Operating Tips

CAUTION - Avoid sweeper damage. Do not ram into piles. Use a dozer blade for this type of job.

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 1 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 inches (51mm) or more of heavy debris, a maximum brush speed in the low range 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.

Maintenance Record

Use this log to record maintenance performed on your unit.

Date	Maintenance Performed	Performed by	Comments

Schedule

For best sweeper performance, follow this maintenance schedule.

Part	Schedule				
	Daily	**Every 50 hr**	**Every 100 hr**	**Every 500 hr**	**See Prime Mover Manual**
Brush Head Assembly: check brush pattern (See Adjustments: Brush Pattern)	✓				
Hardware: check and tighten if necessary	✓				
Hydraulic Filter Element: Change			✓		
Hydraulic Fittings & Hoses: Inspect for leaks or damage; repair or replace when necessary	✓				
Hydraulic Oil: Check level; add as needed	✓				
Change; Use ISO VG-46 oil				✓	
Prime Mover Air Cleaner: Clean; replace					✓
Swing Plate: Grease with EP2 or equivalent		✓			

Hydraulic System

CAUTION - To prevent hydraulic system contamination, change hydraulic oil and filters at regularly scheduled intervals.

Replacing Brush Sections

1. Remove screws that retain flange halves and bearing. Pull the brush head assembly out of the brush hood and stand it up on blocks.
2. Remove core from brush head.
3. Loosen the screws on the retainer plate and remove.
4. Remove old sections from the core.
5. Install new sections by doing the following:
    a. Number the drive locations on the core as 1, 2, and 3 (figure 1)
    b. Slide the first section onto the core with the drive pins on either side of the tube 1 (figure 2). Make sure that the drive pins face up.
    c. Place the second section on the core with the drive pins on either side of tube 2. Be sure the drive pins face down.
    d. Put the third section on with the drive pins around tube 3. Be sure the drive pins face up.
    e. Slide sections on until the core is full, making sure to alternate the tubes used and the direction of the drive pins.
6. Put the retainer on the core and reinstall the screws.
7. Place the brush core assembly over the hex drive in the brush frame.
8. Align bearing and flange halves on non-drive end.
9. Reinstall the screws that retain the bearing and tighten.

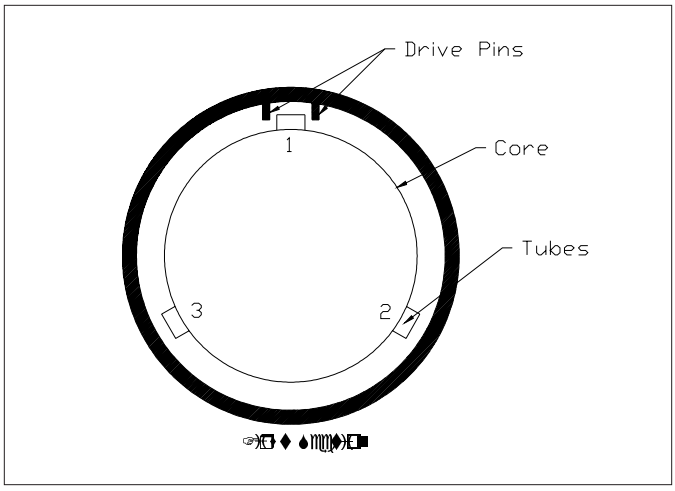


figure 1

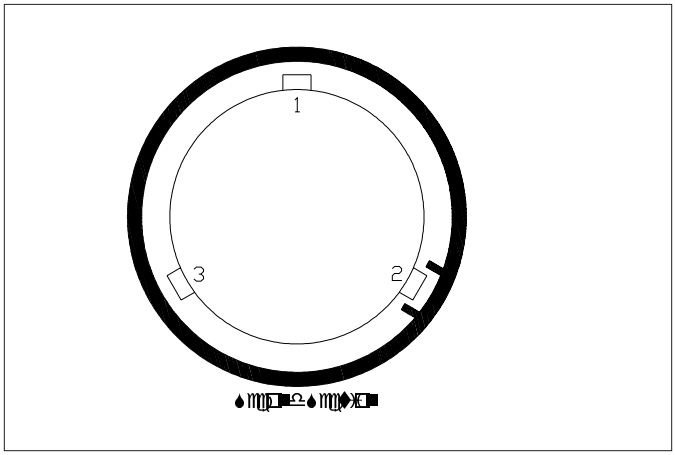


figure 2

Notes

Service Manual

S26 & S30 Series Angle Brooms

Table of Contents

Brush Head

Problem	Possible Cause	Possible Solution
Brush rotates wrong direction	Hoses installed incorrectly	Switch hoses at brush head tubes
Brush slows or stops when sweeping	Brush pattern too wide	Adjust brush pattern to 2-3 inches (51-76mm) wide: see Maintenance: Adjusting Brush Pattern
	Travel speed too fast	Travel no more than 5 mph (8 kph) while sweeping
	Trying to sweep too much material at once	Make several passes with sweeper
	Relief pressure set too low	Set relief pressure to 2000 psi (138.0 bars)
	Pump has failed	Contact dealer to repair or replace
	Filter plugging	Change or clean filter
	Hydraulic motor is failing	Test hydraulic system: see Trouble-shooting: Hydraulic Problems
Brush head assembly "bounces" during sweeping	Spring-chain assembly too loose	Adjust spring-chain assembly: see Maintenance: Adjusting Spring-Chain Assembly
	Travel speed too fast and/or brush speed too slow	Find correct combination of ground and brush speeds: do not travel at more than 5 mph (8 kph)
	Core is bent	Replace core
Brush wears into cone shape	Sweeper is not level	Level sweeper before each use: see Maintenance: Leveling
	Tires on prime mover at different pressures or are different sizes	Check tire sizes and rating: make corrections as necessary
Brush wears very quickly	Brush pattern too wide	Adjust brush pattern to 2-3 inches (51-76mm) wide: see Maintenance: Setting Brush Pattern

Spring-Chain Assemblies

Problem	Possible Cause	Possible Solution
Springs on spring-chain assmblies stretching	Transport chain too loose when traveling between job sites.	Adjust according to Adjustment: Transport Chain.
	Travel speeds too fast when sweeping.	Do not travel at speeds over 5 mph (8 kph).

Hydraulic System

Problem	Possible Cause	Possible Solution
Hydraulic system overheats	Hydraulic oil level too low	Add hydraulic oil to tank until it comes to 2 inches (51 mm) from top
	Restriction in hoses	Remove bends in hoses; remove obstructions inside hoses
	Host pump flow rate exceeds 18 gpm Back pressure exceeds BTU removal by heat exchanger.	Contact host manufacturer for proper flow control method
Hydraulic quick couplers leak	Quick coupler poppet is unseated	Reseat poppet; replace quick coupler if poppet is beyond repair
Hydraulic motor seals leak	Flow rate exceeds 18 gpm. Hydraulic pressure exceeds 3000 psi	Contact Sweepster LLC
	Motor is failing	High number of hours on motor; Contact dealer to rebuild or replace
Hydraulic oil flows from breather cap on hydraulic tank	Hydraulic tank too full	Drain hydraulic tank until level is 2" (51MM) from top

Hydraulic Swing with Electric Valve

Problem	Possible Causes	Possible Remedies
Brush head swings too quickly	Set screw in plug on manifold loose	Loosen jam nut and then turn set screw in until it stops; turn set screw out 1 1/2 turns; tighten jam nut.
Brush head swings too slowly or won't swing	Set screw in plug on manifold too tight	Loosen jam nut and then turn set screw in until it stops; turn set screw out 1 1/2 turns; tighten jam nut.
Brush head swings only 1 direction	Set screw in plug on manifold out of adjustment	Loosen jam nut and then turn set screw in until it stops; turn set screw out 1 1/2 turns; tighten jam nut.
	Dirt or debris in spools	Contact SWEEPSTER Technical Service

Hydraulic Problems

If hydraulic problems - which include the brush failing to rotate, the brush slowing or stopping when making contact with the sweeping surface or swing/lift cylinders not functioning - occur, complete all the following checks on the hydraulic system.

WARNING - Avoid serious injury.

Test components must have a minimum rating of 3000 psi (206.0 bars). Otherwise, components could rupture, causing serious injury. Open the gate valve before beginning any teats.

Do not operate the hydraulic system more than 5 seconds with pressure over 2000 psi (138.0 bars). Higher pressures can rupture hydraulic components and cause serious injury.

Testing Relief Setting

1. Add a flow meter, pressure gauge and gate valve on the pressure side of the sweeper hydraulic system.
2. Raise the sweeper. Then, engage the brush.
3. Shut the gate valve and note the reading on the pressure gauge.

   CAUTION - Avoid pump damage. Do not run test for more than 5 seconds.

4. Refer to the prime mover manual for proper relief setting. If the pressure gauge reading does not match manufacturer's recommendations, take the prime mover to your dealer for repair.
5. Go to Testing Pump or Prime Mover Hydraulics.

Testing Pump or Prime Mover Hydraulics

Complete the following steps to test the pump (units with a power pack) or prime mover hydraulics.

1. Place a pressure gauge, flow gauge and gate valve between the pump and the pressure tube on the brush hood (figure1).
2. Make sure the prime mover is in Neutral with the parking brake on. Start the prime mover at idle and engage the sweeper.
3. Raise engine speed to normal operating rpm.
4. Note the reading on the flow gauge. Then, shut the gate valve. Note the reading on the pressure gauge.
   - If the flow gauge reads at least 10 gpm (.63 lps) and the pressure gauge reached 2000 psi (138.0 bars), the pump is functioning properly.
   - If the flow and/or pressure did not reach the proper reading, the pump has failed. Take it to your dealer to have it rebuilt or replaced.
5. Remove the pressure gauge, flow gauge and gate valve and reconnect hoses.
6. Go to Testing Brush Head Motors.

Testing Brush Head Motors

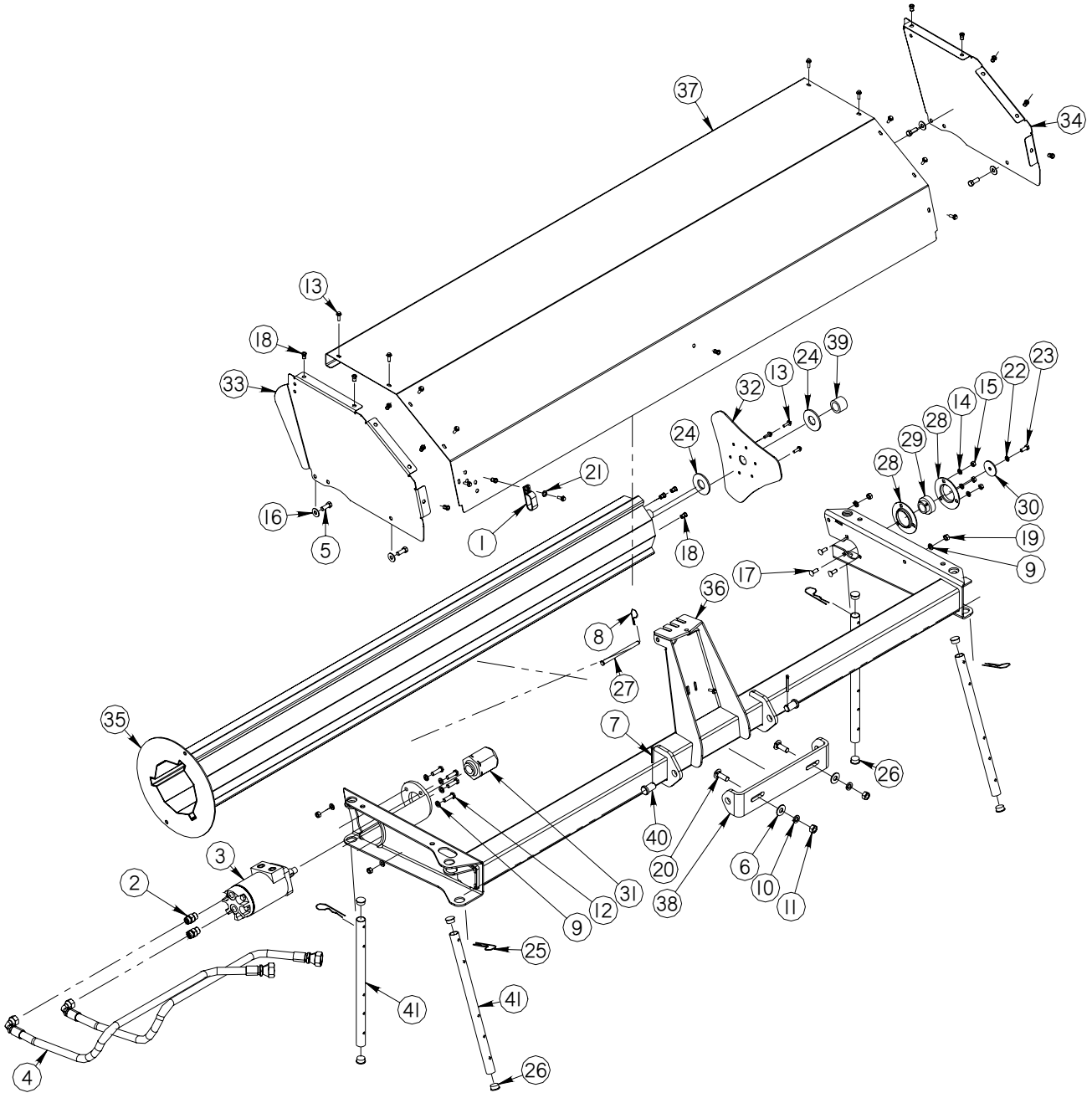
1. Place a pressure gauge and flow gauge between the sweeper or prime mover hydraulic tank and the return tube on the brush hood (figure 2).
2. Make sure the prime mover is in Neutral with the parking brake on. Start the tractor at idle and engage the sweeper. Then, adjust the brush to the maximum sweeping pattern.
3. When the brush stalls, note the reading on the flow gauge. If it is 3 gpm (.19 lps) or more, the motor(s) need(s) to be replaced.

Parts Manual

S26 Series Angle Brooms

Table of Contents

Brush Head S26



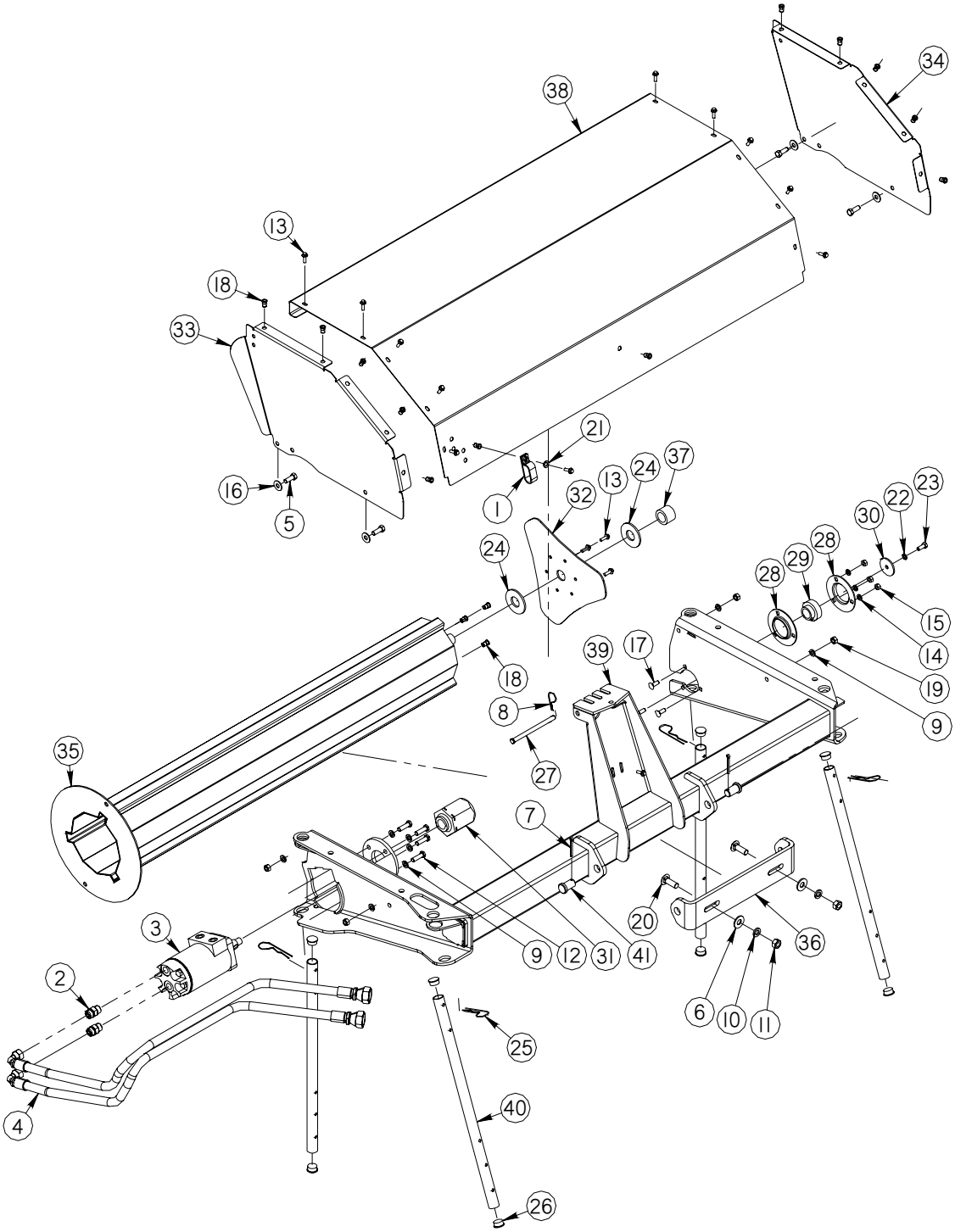
Brush Head S26

Item	Part	Qty	Description
1.	03-2490	1	Clamp, Hose, Double, Rubber Coat
2.	03-4590	2	Fitting, Adapter, HP, 8MFS, 8MOR
3.	03-5031	1	Motor, Hydraulic
4.	03-5025	2	Hose, 1/2 x 60, TC, 8FFS90, 12FFS (4 ft & 5 ft)
	03-5026	2	Hose, 1/2 x 72, TC, 8FFS90, 12FFS (6 ft)
5.	07-0018	4	Screw, HHC, Gr8, 3/8-16 x 1
6.	07-0156	2	Washer, Flat, Gr8, 1/2
7.	07-0206	2	Pin, Cotter, Gr2, 3/16 x 2
8.	07-0209	1	Clip, Hairpin, 16 Ga x 1 3/8
9.	07-1718	8	Washer, Lock, Split, Medium, 3/8
10.	07-1762	2	Washer, Lock, Split, Medium, 1/2
11.	07-1764	2	Nut, Hex, Gr8, 1/2-13
12.	07-2116	4	Screw, HHC, Gr8, 3/8-16 x 1 1/4
13.	07-2952	15	Screw, HFH, CL10.9, M6-11 x 20
14.	07-3273	3	Washer, Lock, Split, Medium, 5/16
15.	07-3278	3	Nut, Hex, Gr8, 5/16-18
16.	07-3279	4	Washer, Flat, Gr8, 3/8
17.	07-3280	3	Bolt, Carriage, Gr5, 5/16-18 x 3/4
18.	07-3617	15	Nut, Hex, Insert, M6 x 1
19.	07-3654	4	Nut, Hex, Gr8, 3/8-16
20.	07-3708	2	Bolt, Carriage, Gr5, 1/2-13 x 1 1/2
21.	07-3736	1	Washer, Flat, CL8.8, M8
22.	07-3738	1	Washer, Lock, Split, Medium, M8
23.	07-3777	1	Screw, HHC, CL10.9, M8-1.25 x 20mm
24.	07-4040	2	Washer, Flat, Gr8, 1
25.	07-4522	4	Clip, Hairpin, .162 x 3.43
26.	07-4523	8	Plug, Cap, Plastic, Black, 1 x .51
27.	07-6488	1	Pin, Clevis, 3/8 x 5 1/2, 5 17/64 GL
28.	08-0008	2	Bearing, Flange, 3 Hole
29.	08-0148	1	Bearing, 1 RD, with Collar and Set Screws
30.	13-11903	1	Washer, .34 x 1.8 x 10ga
31.	13-13451	1	Hub, Hex, Tapered Bore
32.	13-13453	1	Plate, Core, Hat
33.	13-13457	1	Sheet, Side, Hood, Left
34.	13-13458	1	Sheet, Side, Hood, Right
35.	13-13502	1	Weld, Core, 4Ft.
	13-13452	1	Weld, Core, 5Ft.
	13-13503	1	Weld, Core, 6Ft.
36.	13-13640	1	Weld, Frame, 4Ft.
	13-13638	1	Weld, Frame, 5Ft.
	13-13513	1	Weld, Frame, 6Ft.
37.	13-13643	1	Sheet, Hood, 4Ft.
	13-13642	1	Sheet, Hood, 5Ft.
	13-13524	1	Sheet, Hood, 6Ft.
38.	13-13525	1	Plate, Mounting, Brush Head
39.	13-13637	1	Spacer, 1 1/2 x 1.01 x 1.10
40.	13-8450	2	Pin, Clevis, .75 x .969, with Hole
41.	13-9818	4	Tube, Round, Stand

Sections

	Part	Qty	Width
Mixed	01-5010	25	4 ft
		32	5 ft
		39	6 ft
Poly	01-5210	25	4 ft
		32	5 ft
		39	6 ft

Brush Head S30



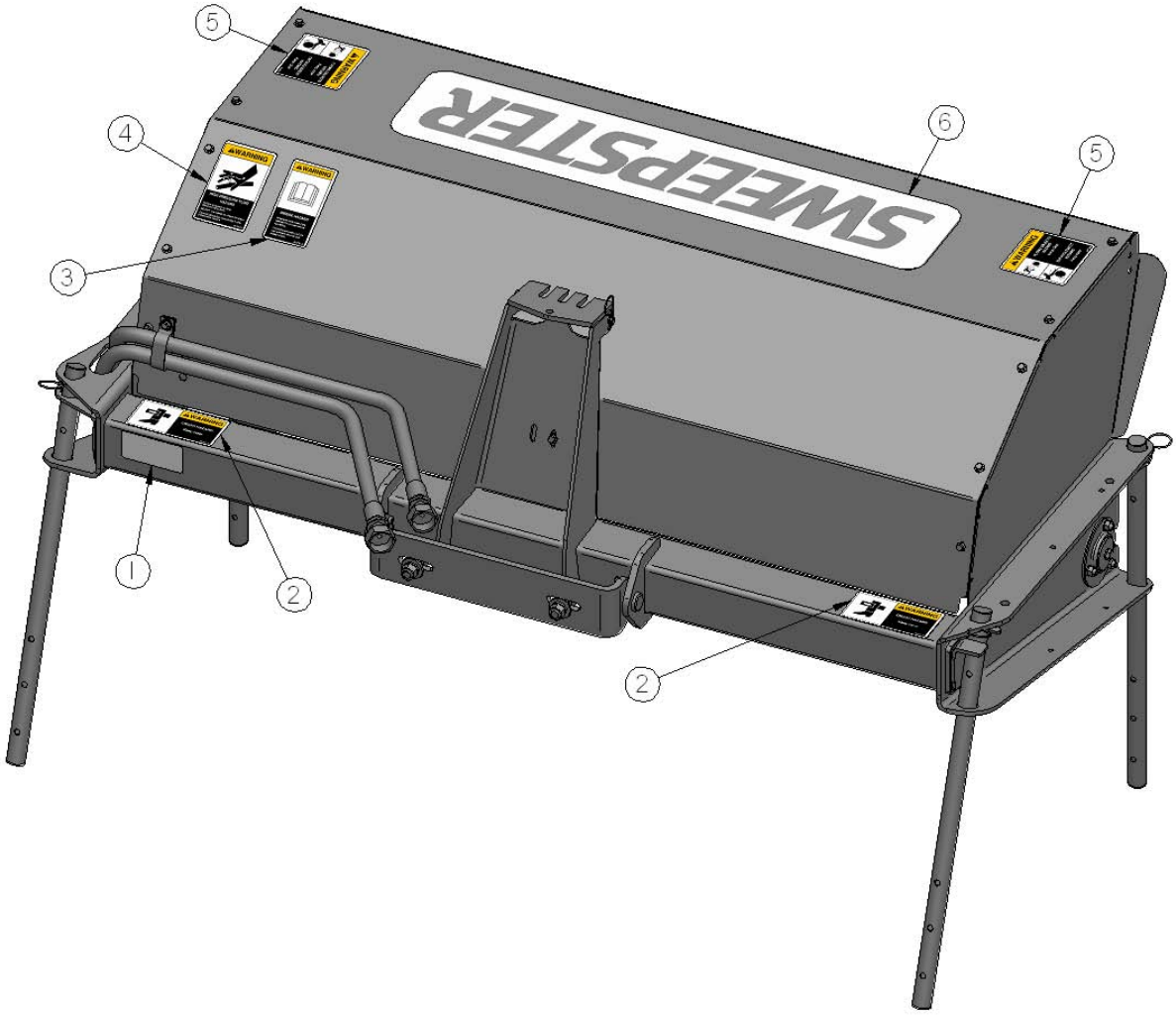
Brush Head S30

Item	Part	Qty	Description
1.	03-2490	1	Clamp, Hose, Double, Rubber Coat
2.	03-4590	2	Fitting, Adapter, HP, 8MFS, 8MOR
3.	03-5027	1	Motor, Hydraulic
4.	03-5025	2	Hose, 1/2 x 60, TC, 8FFS90, 12FFS (4 ft & 5 ft)
	03-5026	2	Hose, 1/2 x 72, TC, 8FFS90, 12FFS (6 ft & 7 ft)
5.	07-0018	4	Screw, HHC, Gr8, 3/8-16 x 1
6.	07-0156	2	Washer, Flat, Gr8, 1/2
7.	07-0206	2	Pin, Cotter, Gr2, 3/16 x 2
8.	07-0209	1	Clip, 16Ga x 1 3/8
9.	07-1718	8	Washer, Lock, Split, Medium, 3/8
10.	07-1762	2	Washer, Lock, Split, Medium, 1/2
11.	07-1764	2	Nut, Hex, Gr8, 1/2-13
12.	07-2116	4	Screw, HHC, Gr8, 3/8-16 x 1 1/4
13.	07-2952	15	Screw, HFH, CL10.9, M6-11 x 20
14.	07-3273	3	Washer, Lock, Split, Medium, 5/16
15.	07-3278	3	Nut, Hex, Gr8, 5/16-18
16.	07-3279	4	Washer, Flat, Gr8, 3/8
17.	07-3280	3	Bolt, Carriage, Gr5, 5/16-18 x 3/4
18.	07-3617	15	Nut, Hex, Insert, M6 x 1
19.	07-3654	4	Nut, Hex, Gr8, 3/8-16
20.	07-3708	2	Bolt, Carriage, Gr5, 1/2-13 x 1 1/2
21.	07-3736	1	Washer, Flat, CL8.8, M8
22.	07-3738	1	Washer, Lock, Split, Medium, M8
23.	07-3777	1	Screw, HHC, CL10.9, M8-1.25 x 20mm
24.	07-4040	2	Washer, Flat, Gr8, 1
25.	07-4522	4	Clip, Hairpin, .162 x 3.43
26.	07-4523	8	Plug, Cap, Plastic, Black, 1 x .51
27.	07-6488	1	Pin, Clevis, 3/8 x 5 1/2, 5 17/64 GL
28.	08-0008	2	Bearing, Flange, 3 Hole
29.	08-0148	1	Bearing, 1RD, with Collar and Set Screws
30.	13-11903	1	Washer, .34 x 1.8 x 16Ga
31.	13-13451	1	Hub, Hex, Tapered Bore
32.	13-13453	1	Plate Core, Hat
33.	13-13457	1	Sheet, Side, Hood, Left
34.	13-13458	1	Sheet, Side, Hood, Right
35.	13-13502	1	Weld, Core, 4Ft.
	13-13452	1	Weld, Core, 5Ft.
	13-13503	1	Weld, Core, 6Ft.
	13-13657	1	Weld, Core, 7Ft.
36.	13-13525	1	Plate, Mounting, Brush Head
37.	13-13637	1	Spacer, 1 1/2 x 1.01 x 1.10
38.	13-13643	1	Sheet, Hood, 4Ft.
	13-13642	1	Sheet, Hood, 5Ft.
	13-13524	1	Sheet, Hood, 6Ft.
	13-13656	1	Sheet, Hood, 7Ft.
39.	13-13647	1	Weld, Brush Frame, 4Ft.
	13-13648	1	Weld, Brush Frame, 5Ft.
	13-13649	1	Weld, Brush Frame, 6Ft.
	13-13650	1	Weld, Brush Frame, 7Ft.
40.	13-13655	4	Tube, Round, Stand
41.	13-8450	2	Pin, Clevis, .75 x .969, with Hole

Sections

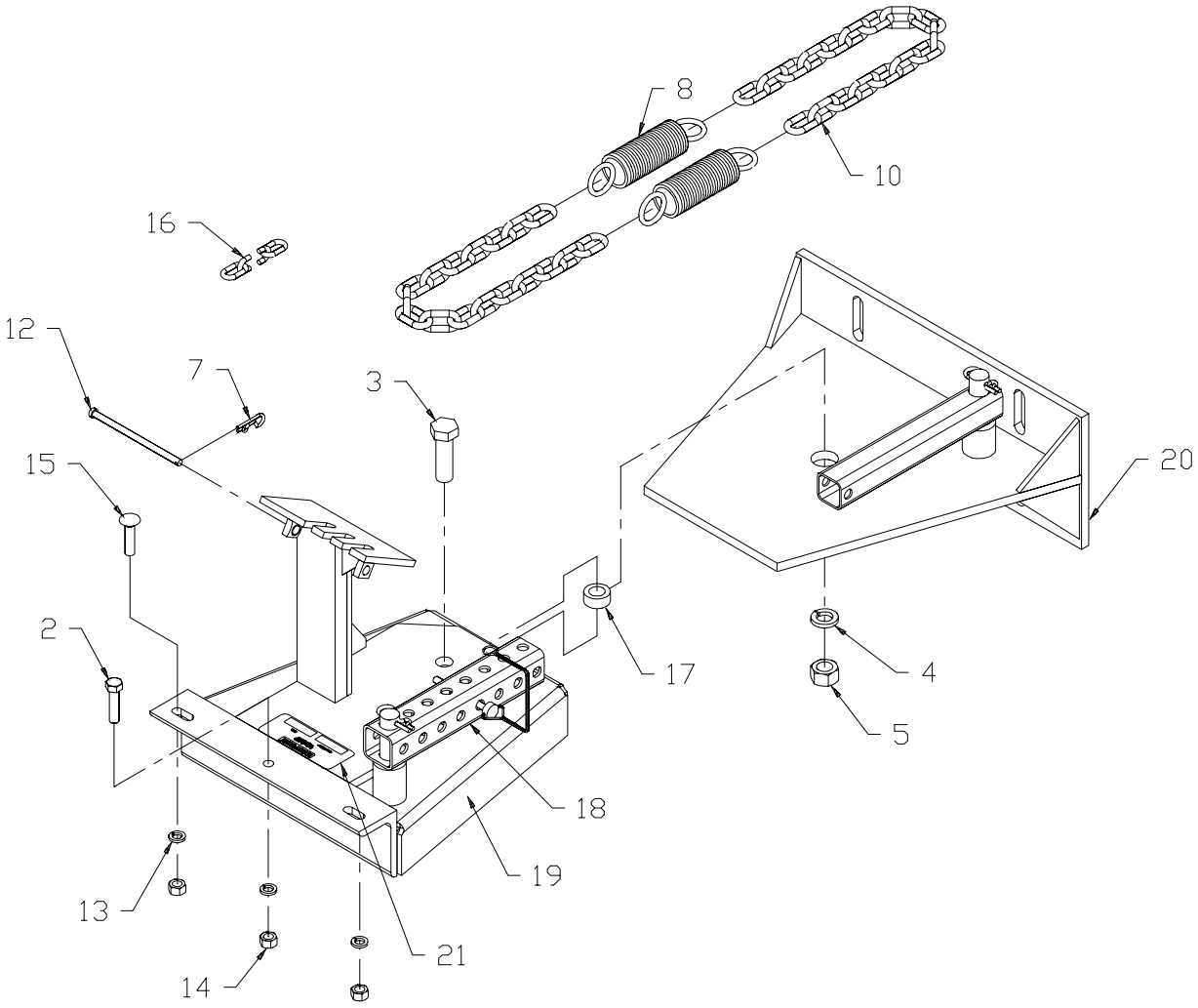
	Part	Qty	Width
Mixed	01-5012	25	4 ft
		32	5 ft
		39	6 ft
		46	7 ft
Poly	01-5011	25	4 ft
		32	5 ft
		39	6 ft
		46	7 ft

Brush Head Labels



Item	Part	Qty	Description
1.	50-0634	1	Label, Serial Number
2.	50-0721	2	Label, Warning, Crush Hazard
3.	50-0722	1	Label, Warning, Misuse Hazard
4.	50-0724	1	Label, Warning, High Pressure Fluid Hazard
5.	50-0726	2	Label, Warning, Flying Objects & Entanglement
6.	50-10001	1	Label, Sweepster, Large, White

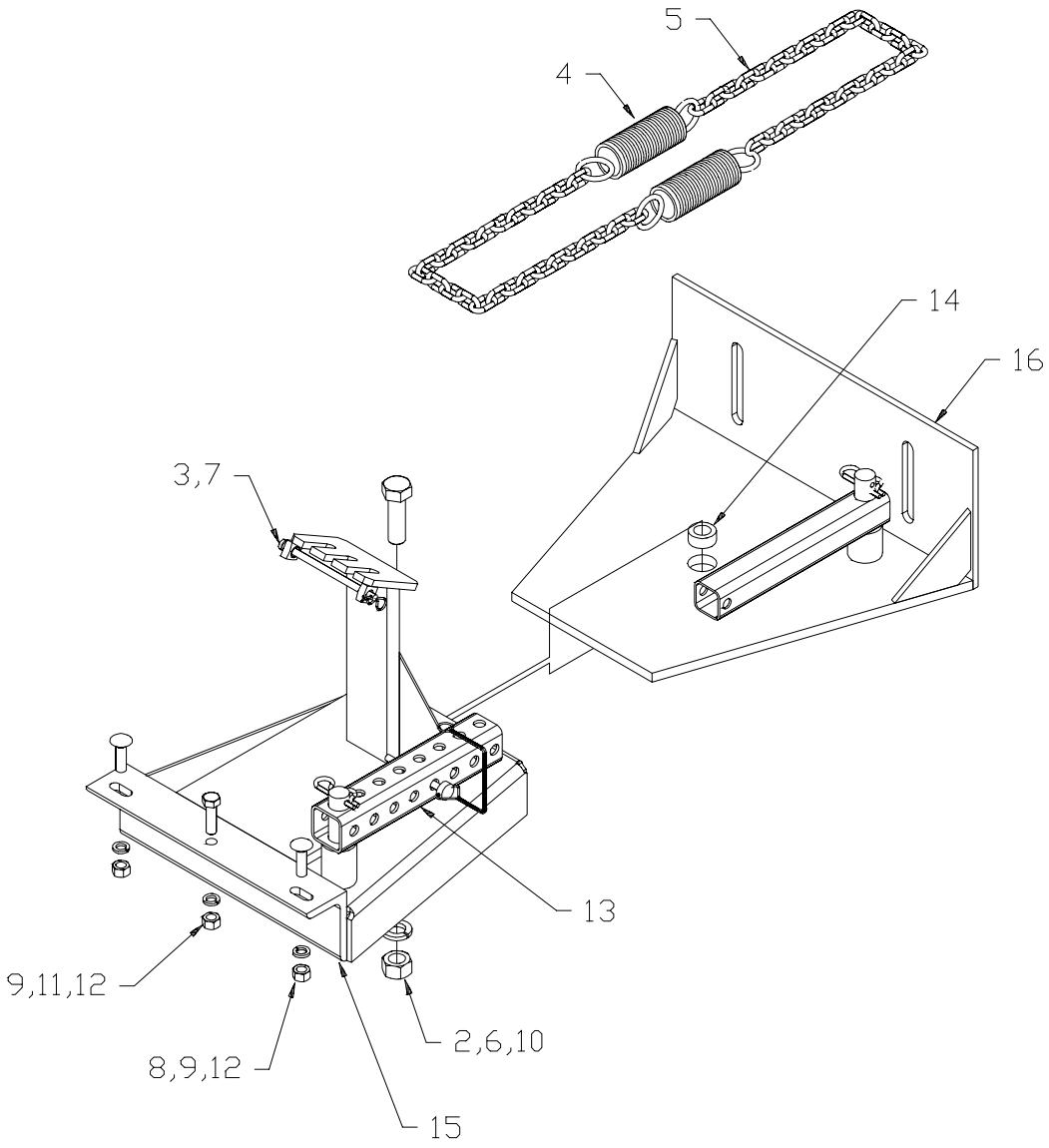
MRH & CTH Swing Assembly Only
11-17174



Item	Part	Qty	Description
2.	07-0041	1	Screw, Cap, 3/8-16 x 1 1/2
3.	07-0066	1	Screw, Cap, 5/8-11 x 2
4.	07-1872	1	Washer, Lock, Split, 5/8
5.	07-1294	1	Nut, Hex, 5/8-11
7.	07-0209	1	Clip, Hairpin, 16 Ga x 1 3/8
8.	07-0237	2	Spring, Tension, 1 13/32 x 6
10.	07-0387	2	Chain, 3/16, 26 Links
12.	07-1709	1	Pin, Clevis, 1/4 x 4 1/2

Item	Part	Qty	Description
13.	07-1718	3	Washer, Lock, Split, 3/8
14.	07-3654	3	Nut, Hex, 3/8-16
15.	07-1730	2	Bolt, Carriage, 3/8-16 x 1 1/2
16.	07-1759	1	Chain, 3/16, 36 Links
17.	11-7479	1	Bushing, 1 x 5/8 x 7/16
18.	11-4371	1	Kit, Manual, Angle, 24
19.	13-8695	1	Weld, Frame, Swing
20.	13-8696	1	Weld, Plate, Swing, 3/8 Top Pin
21.	50-0635	1	Label, Plate, Part Number

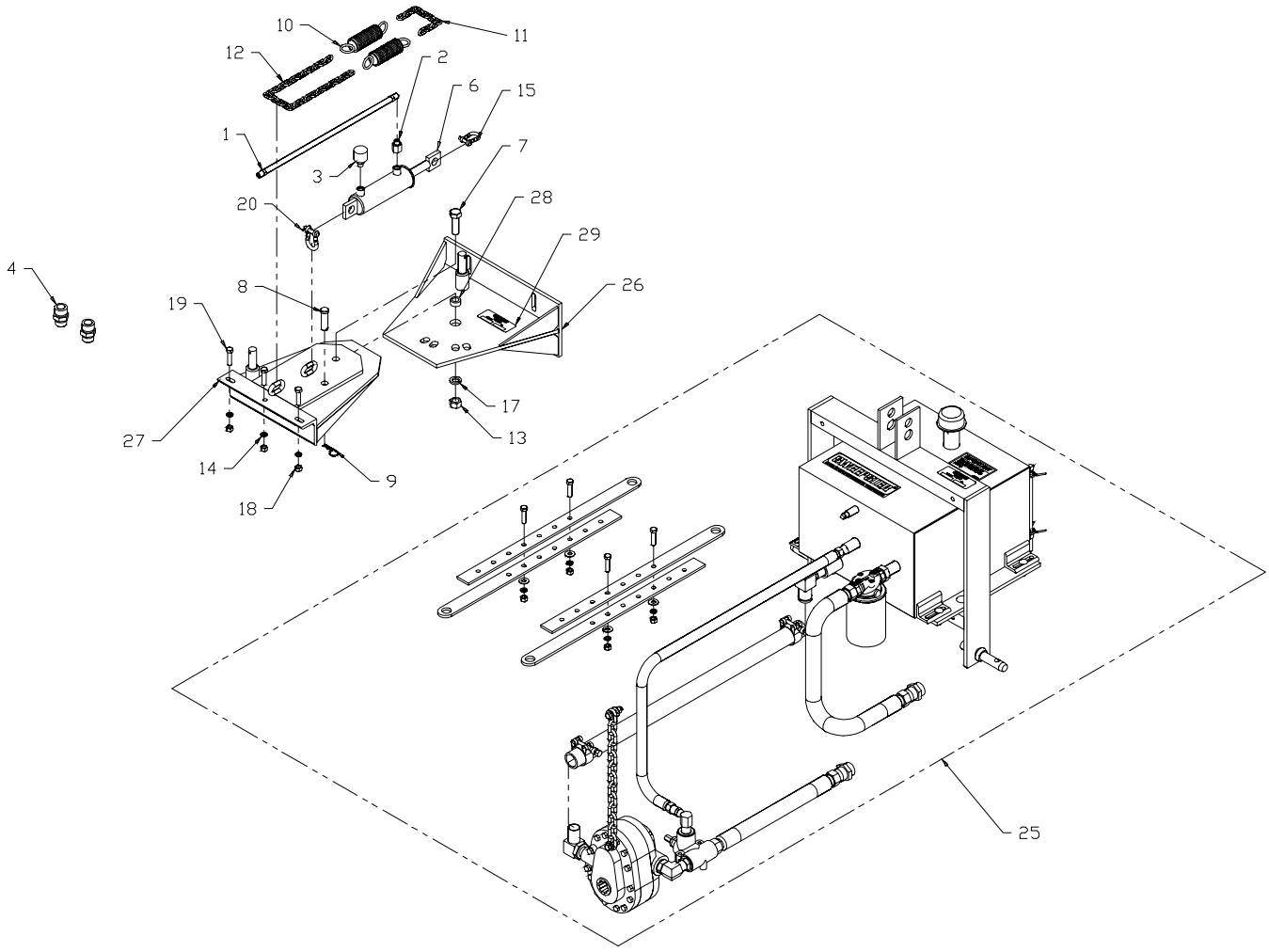
MRH & CTH Swing Assembly Only
11-17283



Item	Part	Qty	Description
2.	07-0066	1	Screw, Cap, 5/8-11 x 2
3.	07-0209	1	Clip, Hairpin, 16 Ga x 1 3/8
4.	07-0237	2	Spring, Tension, 1 13/32 x 6
5.	07-0387	2	Chain, 3/16, 26 Links
6.	07-1294	1	Nut, Hex, 5/8-11
7.	07-1709	1	Pin, Clevis, 1/4 x 4 1/2
8.	07-1717	2	Bolt, Carriage, 3/8-16 x 1 1/4

Item	Part	Qty	Description
9.	07-1718	3	Washer, Lock, Split, 3/8
10.	07-1872	1	Washer, Lock, Split, 5/8
11.	07-2116	1	Screw, Cap, 3/8-16 x 1 1/4
12.	07-3654	3	Nut, Hex, 3/8-16
13.	11-4371	1	Kit, Manual, Angle, 24
14.	11-7479	1	Bushing, 1 x 5/8 x 7/16
15.	13-0499	1	Frame, Swing
16.	13-4206	1	Plate, Swing, Top Pin

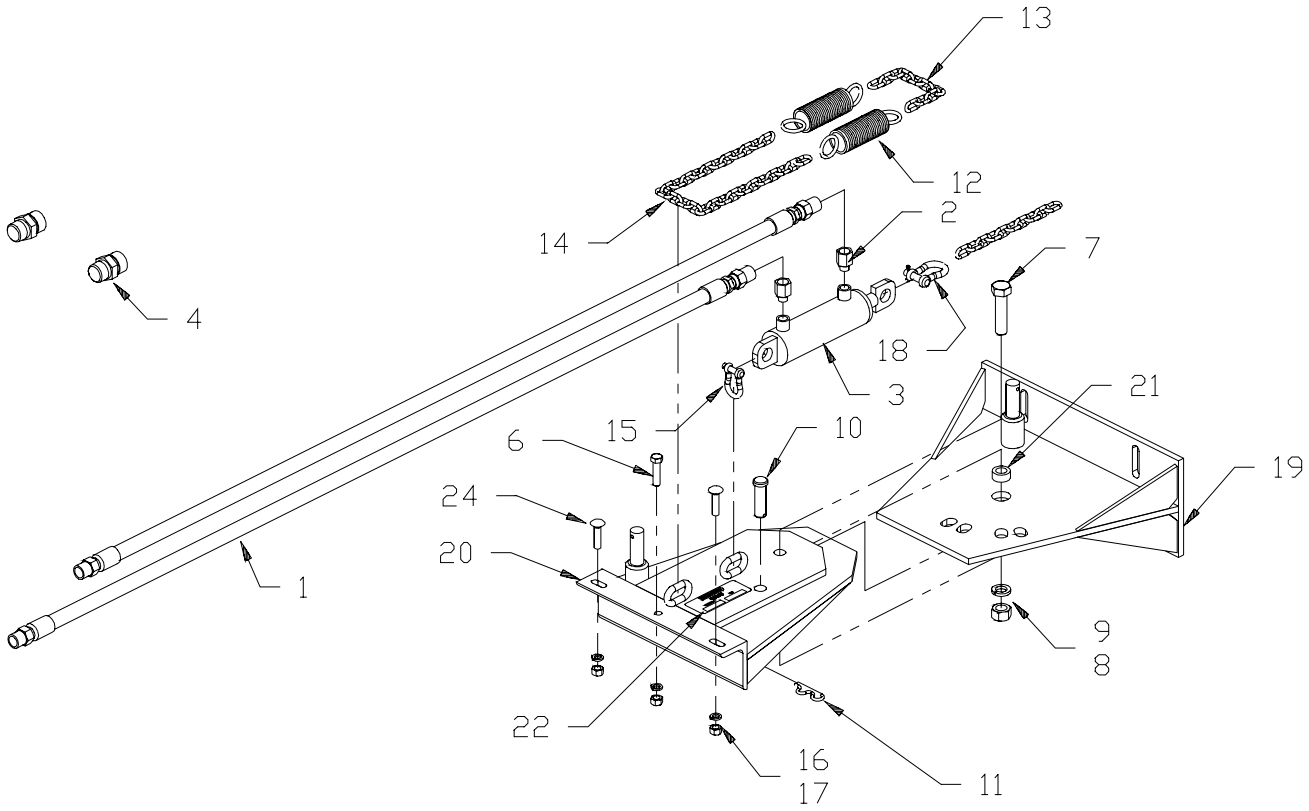
MRH & CTH with Power Pack
11-17176



Item	Part	Qty	Description
1.	03-0064	1	Hose, 1 1/4 x 144, 1W, 1/4MP, 1/4MPS
2.	03-0898	1	Fitting, Adapter, HP, 9/16MOR, 1/4FP
3.	03-1932	1	Fitting, Vent, 9/16MOR, with Bell Cap
4.	03-1943	2	Fitting, Adapter, HP, 3/4MFS, 3/4MP
6.	03-3381	1	Cylinder, 1 3/4 x 4 x 9
7.	07-0066	1	Screw, HHC, Gr8, 5/8-11 x 2
8.	07-0201	1	Pin, Clevis, 5/8 x 2
9.	07-0210	1	Clip, Hairpin, 14Ga x 1 3/4
10.	07-0237	2	Spring, Tension, 1 13/32 x 6
11.	07-0238	2	Chain, 3/16, 10 Links
12.	07-0387	1	Chain, 3/16, 26 Links

Item	Part	Qty	Description
13.	07-1294	1	Nut, Hex, Gr8, 5/8-11
14.	07-1718	3	Washer, Lock, Split, Medium, 3/8
15.	07-1732	1	Shackle, Chain, 1/4, with Screw Pin
17.	07-1872	1	Washer, Lock, Split, Medium, 5/8
18.	07-3654	3	Nut, Hex, Gr8, 3/8-16
19.	07-3655	3	Screw, HHC, Gr8, 3/8-16 x 1 1/2
20.	07-4350	1	Shackle, Chain, 3/8 Round, Pin
25.	11-5346	1	Assembly, Power Pack, 3 Point, 12gpm
26.	11-7467	1	Weld, Plate, Swing
27.	1-7472	1	Weld, Frame, Swing
28.	11-7479	1	Bushing, 1 x 5/8 x 7/16
29.	50-0635	1	Label, Plate, Part Number

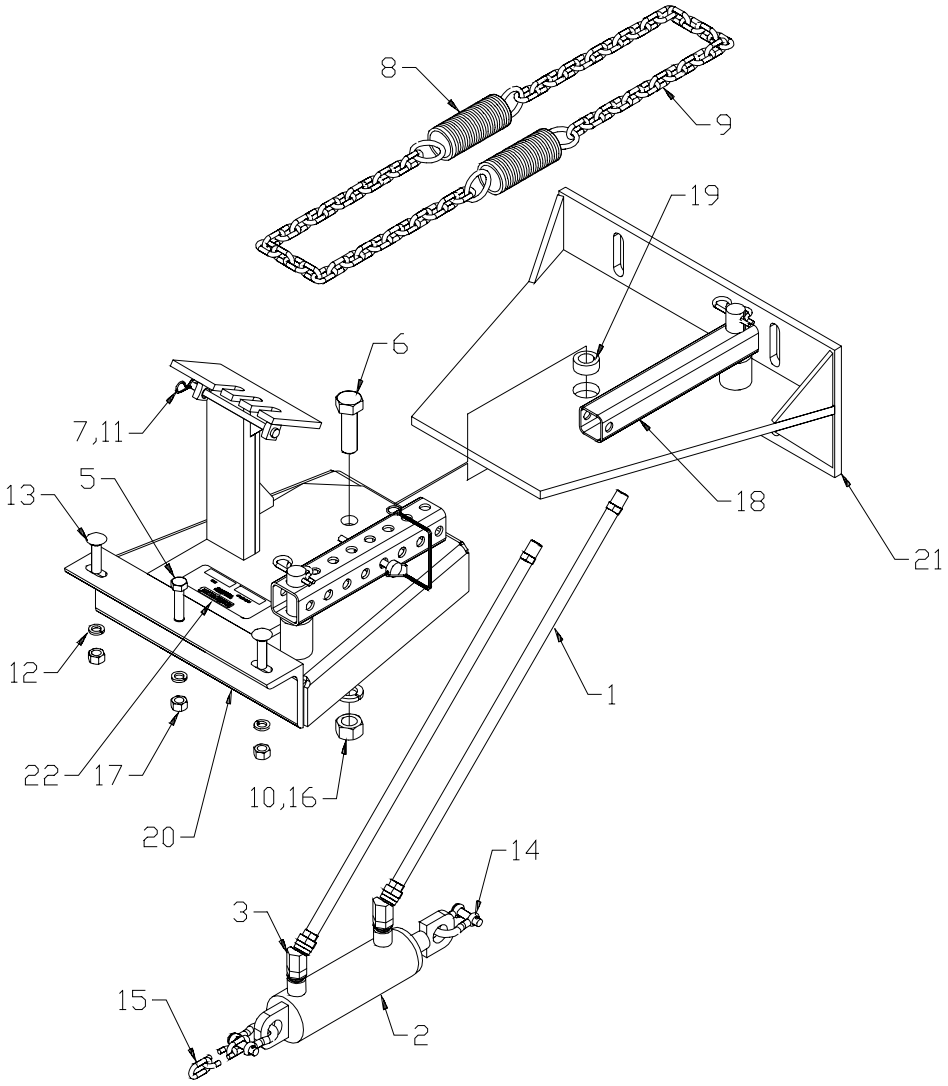
MRH & CTH with Hydraulic Lift
11-17410



Item	Part	Qty	Description
2.	03-0898	2	Fitting, Adapter, HP, 9/16MOR, 1/4FP
3.	03-1851	1	Cylinder, 1-3/4 x 4 x 9 9/16 OR
	03-1318		Kit, Seal, Cylinder
4.	03-1943	2	Fitting, Adapter, HP, 3/4MFS, 3/4MP
5.	03-2368	2	Hose, 3/4 x 98, 2W, 3/4FFS, 3/4FFS90
6.	07-0041	3	Screw, HHC, Gr8, 3/8 x 16 x 1 1/2
7.	07-0063	1	Screw, HHC, Gr2, 5/8-11 x 2
8.	07-0171	1	Washer, Lock, Split, Gr2, 5/8
9.	07-0185	1	Nut, Hex, Gr2, 5/8-11
10.	07-0201	1	Pin, Clevis, 5/8 x 2
11.	07-0210	2	Clip, Hairpin, 14Ga x 1 3/4

Item	Part	Qty	Description
12.	07-0237	2	Spring, Tension, 1 13/32 x 6
13.	07-0238	2	Chain, 3/16, 10 Links
14.	07-0387	1	Chain, 3/16, 26 Links
15.	07-0653	1	Shackle, Chain, 3/8, Round Pin
16.	07-1718	3	Washer, Lock, Split, Gr5, 3/8
17.	07-1719	3	Nut, Hex, Gr5, 3/8-16
18.	07-1732	1	Shackle, Chain, 5/16, with Screw Pin
19.	11-7467	1	Weld, Plate, Swing, 1.8 Tractors
20	11-7472	1	Weld, Frame, Swing g, 1.8 Tractors
21.	11-7479	1	Bushing, 1 x 5/8 x 7/16
22.	50-0635	1	Label, Plate, Part Number

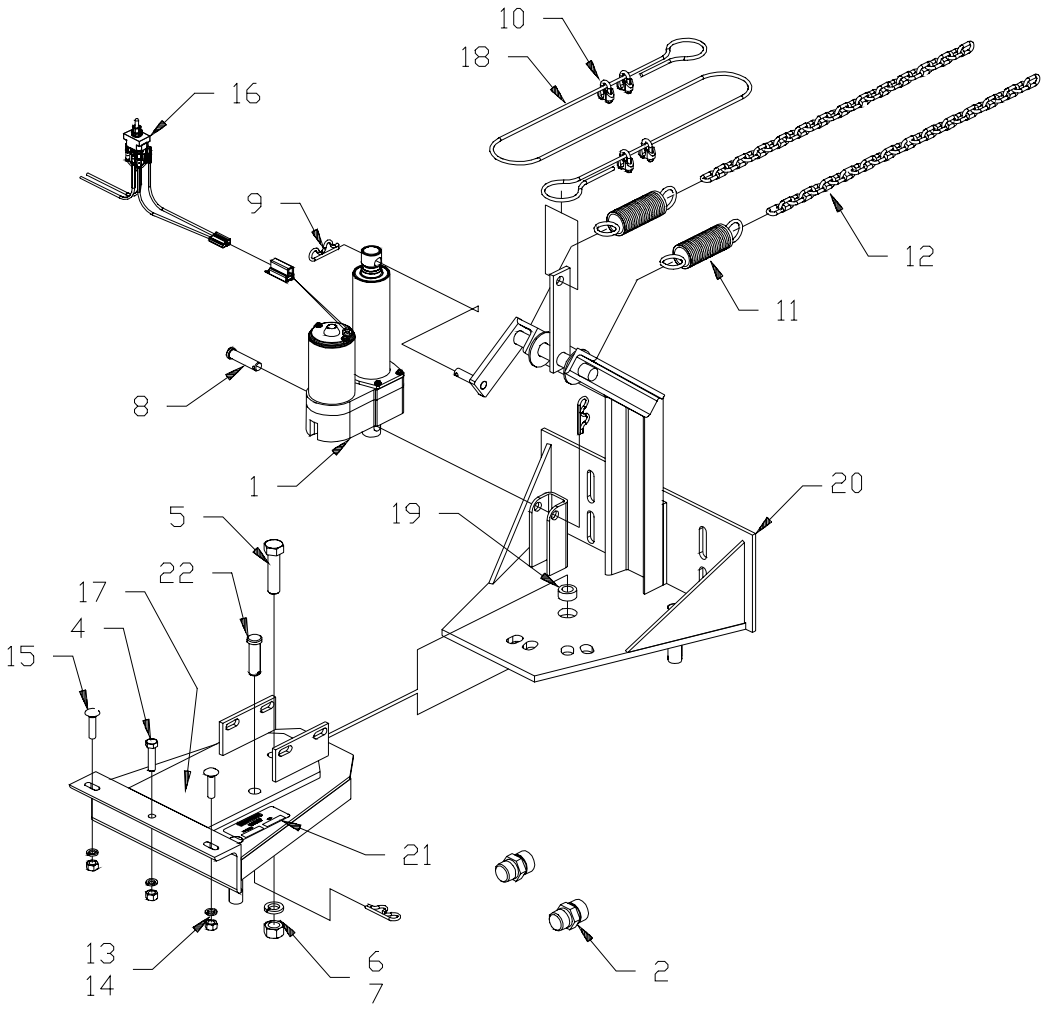
MRH & CTH with Hydraulic Lift
11-17432



Item	Part	Qty	Description
2.	03-3381	1	Cylinder, 1 3/4 x 4 x 9
3.	03-1884	2	Fitting, Elbow, HP, 45°, 9/16MOR, 1/4FPS
4.	03-2368	2	Hose, 3/4 x 98, 2W, 3/4FFS, 3/4FFS90
5.	07-3655	1	Screw, HHC, Gr8, 3/8-16 x 1 1/2
6.	07-0066	1	Screw, HHC, Gr8, 5/8-11 x 2
7.	07-0209	1	Clip, Hairpin, 16Ga x 1 3/8
8.	07-0237	2	Spring, Tension, 1 13/32 x 6
9.	07-0387	2	Chain 3/16, 26 Links
10.	07-1294	1	Nut, Hex, Gr8, 5/8-11
11.	07-1709	1	Pin, Clevis, 1/4 x 4 1/2

Item	Part	Qty	Description
12.	07-1718	3	Washer, Lock, Split, Medium, 3/8
13.	07-1730	2	Bolt, Carriage, Gr5, 3/8-16 x 1 1/2
14.	07-1732	2	Shackle, Chain, 1/4, with Screw Pin
15.	07-1759	1	Chain, 3/16, 36 Links
16.	07-1872	1	Washer, Lock, Split, Medium, 5/8
17.	07-3654	3	Nut, Hex, Gr8, 3/8-16
18.	11-4371	1	Kit, Manual, Angle
19.	11-7479	1	Bushing, 1 x 5/8 x 7/16
20.	13-8695	1	Weld, Frame, Swing, for 3/8 Top Pin
21.	13-8696	1	Weld, Plate, Swing, 3/8 Top Pin
22.	50-0635	1	Label, Plate, Part Number

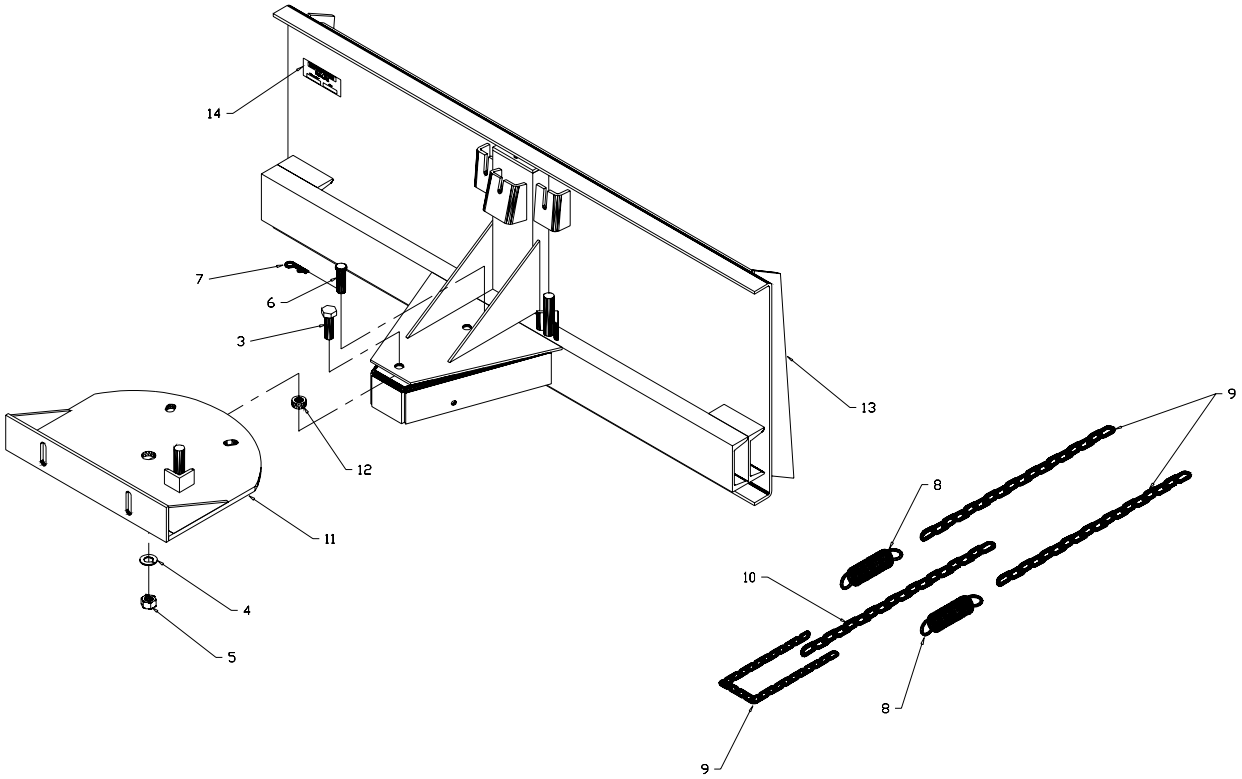
MRH & CTH with Electric Lift
11-4370



Item	Part	Qty	Description
1.	07-1660	1	Actuator, 450#
2.	03-1943	2	Fitting, Adapter, HP, 3/4MFS, 3/4MP
4.	07-0041	1	Screw, HHC, Gr8, 3/8-16 x 1 1/2
5.	07-0063	1	Screw, HHC, Gr2, 5/8-11 x 2
6.	07-0171	1	Washer, Lock, Split, Gr2, 5/8
7.	07-0185	1	Nut, Hex, Gr2, 5/8-11
8.	07-0196	1	Pin, Clevis, Gr2, 1/2 x 2
9.	07-0210	3	Clip, Hairpin, 14Ga x 1 3/4
10.	07-0214	4	Clamp, Cable, 3/16
11.	07-0237	2	Spring, Tension, 1 13/32 x 6

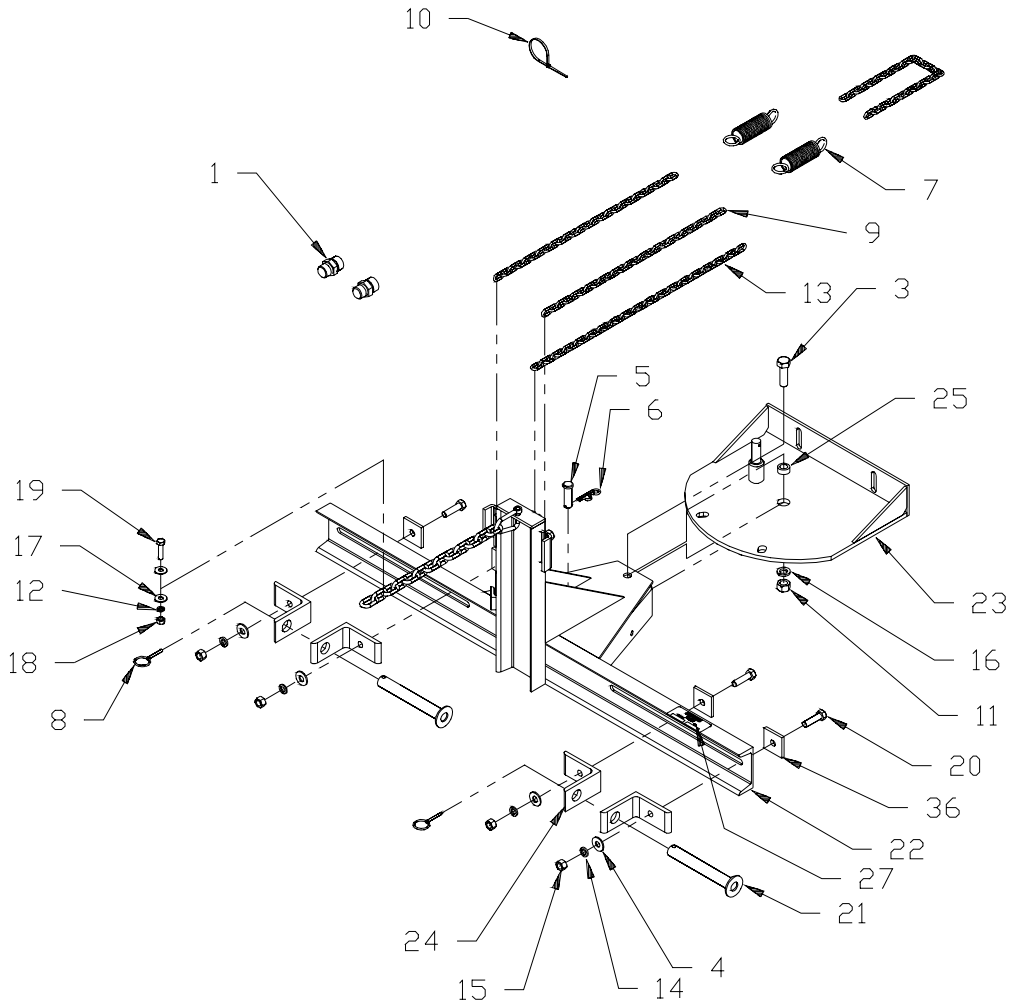
Item	Part	Qty	Description
12.	07-0387	2	Chain, 3/16, 26 Links
13.	07-1718	3	Washer, Lock, Split, Gr5, 3/8
14.	07-1719	3	Nut, Hex, Gr5, 3/8-16
15.	07-1730	2	Bolt, Carriage, Gr5, 3/8-16 x 1 1/2
16.	11-1810	1	Wire, Harness
17.	11-2461	1	Weld, Frame, Swing
18.	11-7289	1	Cable, 3/16 x 32
19.	11-7479	1	Bushing, 1 x 5/8 x 7/16
20.	13-0848	1	Weld, Plate, Swing, for Stack Gearbox
21.	50-0635	1	Label, Plate, Part Number
22.	07-0201	1	Pin, Clevis, 5/8 x 2

MRHL with Quick Attach Mounting



Item	Part	Qty	Description
1.	03-1943	2	Fitting, Adapter, 3/4 MFS, 3/4 MP
3.	07-0063	1	Screw, HHC, Gr 2, 5/8-11 x 2
4.	07-0171	1	Washer, Lock, Split, Gr 2, 5/8
5.	07-0185	1	Nut, Hex, Gr 2, 5/8-11
6.	07-0201	1	Pin, Clevis, 5/8 x 2
7.	07-0210	1	Clip, Hairpin, 14 Ga x 1-3/4
8.	07-0237	2	Spring, Tens, 1-13/32 x 6
9.	07-0387	3	Chain, 3/16, 26 Links
10.	07-1759	1	Chain, 3/16, 36 Links
11.	11-1277	1	Weld, Plate, Swing, MRHL
12.	11-7479	1	Bushing, 1 x 5/8 x 7/16
13.	Varies	1	Weld, Frame, Mounting (Contact SWEEPSTER LLC for correct frame for your application.)
14.	50-0635	1	Label, Plate, Part Number

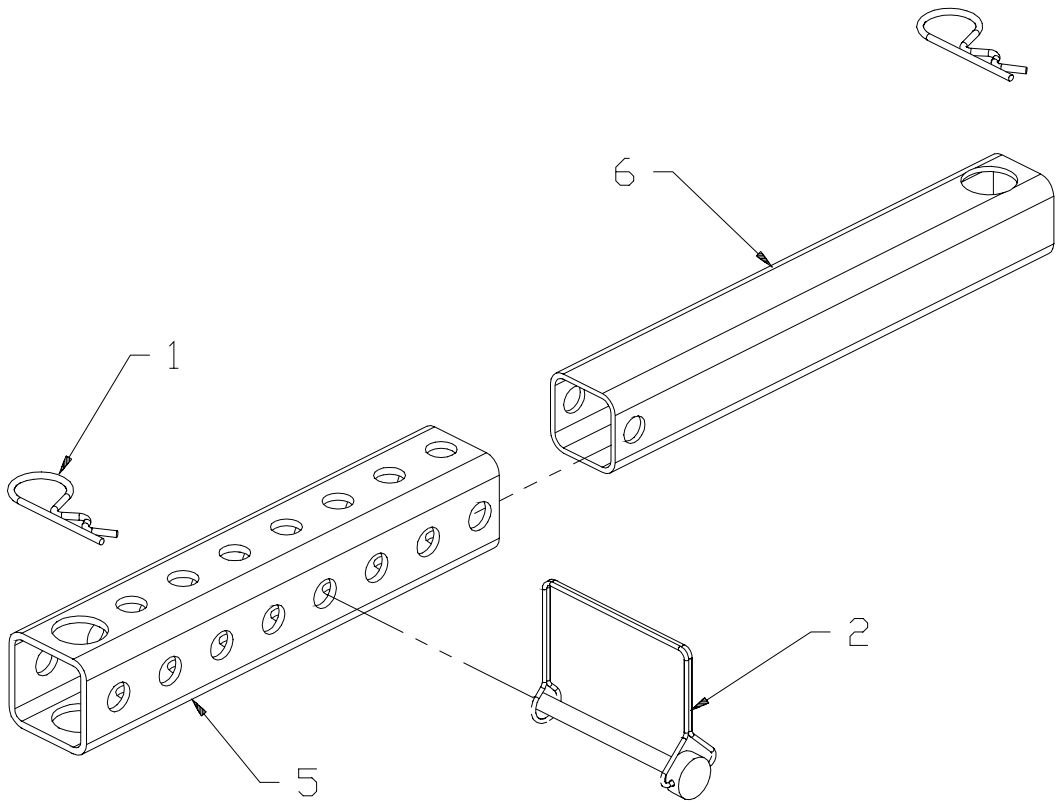
MRHL without Quick Attach Mounting
11-4044



Item	Part	Qty	Description
1.	03-0021	2	Fitting, Quick, Coupler, Female, 3/4FP
2.	03-0022	2	Fitting, Quick, Coupler, Male, 3/4FP
3.	03-0067	1	Fitting, Quick, Coupler, Female, 1/2
4.	03-0068	1	Fitting, Quick, Coupler, Female, 1/2
5.	03-1943	2	Fitting, Adapter, HP, 3/4MFS, 3/4MP
7.	07-0026	1	Screw, Cap, 3/8 x 1 1/2
8.	07-0066	1	Screw, Cap, 5/8-11 x 2
9.	07-0116	4	Bolt, Carriage, 1/2 x 1 1/2
10.	07-0154	2	Washer, Flat, 3/8
11.	07-0156	4	Washer, Flat, 1/2
12.	07-0168	1	Washer, Lock, Split, 3/8
13.	07-0170	4	Washer, Lock, Split, 1/2
14.	07-0171	1	Washer, Lock, Split, 5/8

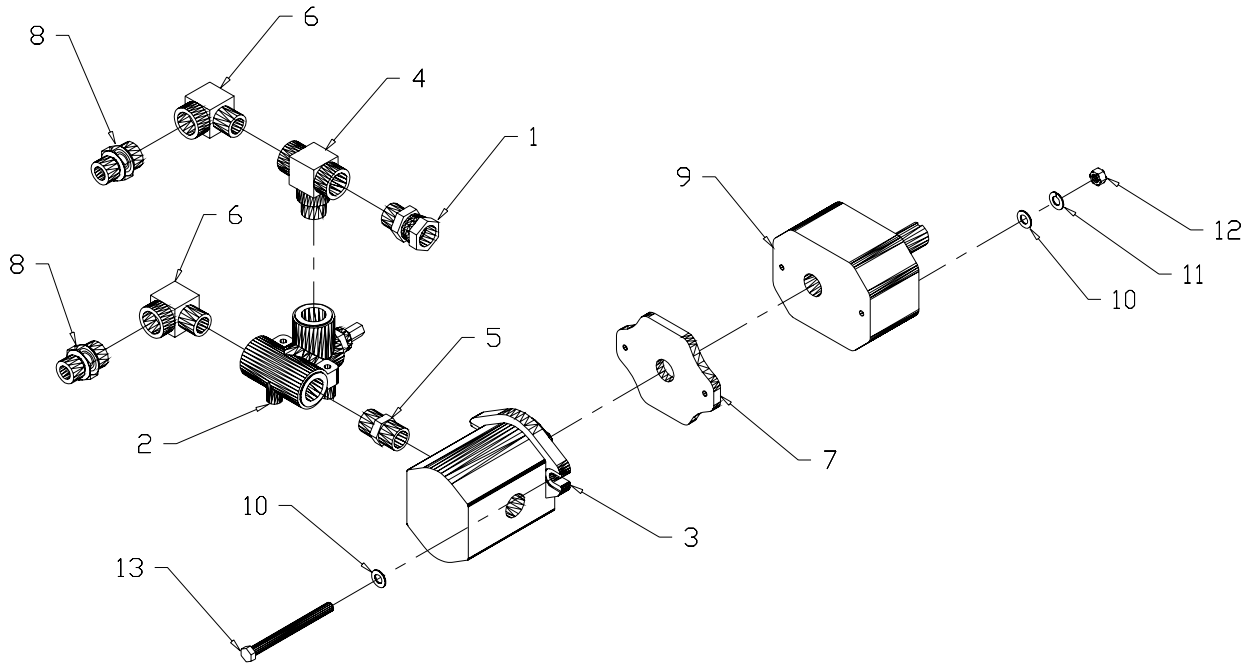
Item	Part	Qty	Description
15.	07-0183	1	Nut, Hex, 3/8-16
16.	07-0184	4	Nut, Hex, 1/2-13
17.	07-0185	1	Nut, Hex, 5/8-11
18.	07-0201	1	Pin, Clevis, 5/8 x 2
19.	07-0210	1	Clip, Hairpin, 14Ga x 1 3/4
20.	07-0237	2	Spring, Tension, 1 13/32 x 6
21.	07-0244	2	Pin, Link, #1600
22.	07-0387	3	Chain, 3/16, 26 Links
23.	07-1759	1	Chain, 3/16, 36 Links
24.	11-0980	2	Pin, Mounting
25.	11-1277	1	Plate, Swing
26.	11-1278-1	1	Frame, Swing
27.	11-1980	4	Bracket, Mounting, Ear
28.	11-7479	1	Bushing, 1 x 5/8 x 7-16
29.	50-0635	1	Label, Plate, Part Number

Manual Angle Kit
11-5819



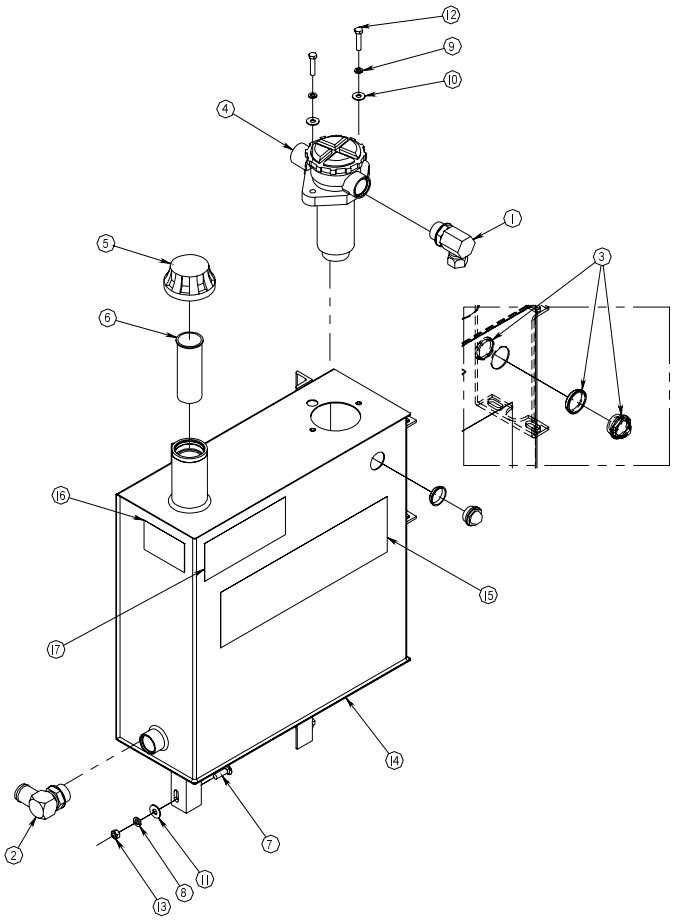
Item	Part	Qty	Description
1.	07-0210	2	Clip, Hairpin, 14Ga x 1 3/4
2.	07-2105	1	Pin, Lock, 3/8 Square Bail
5.	13-4193	1	Tube, Link, Outer
6.	13-4194	1	Tube, Link, Inner

CTH Pump Assemblies
11-5313,11-5314,11-5315,11-5316,11-5317



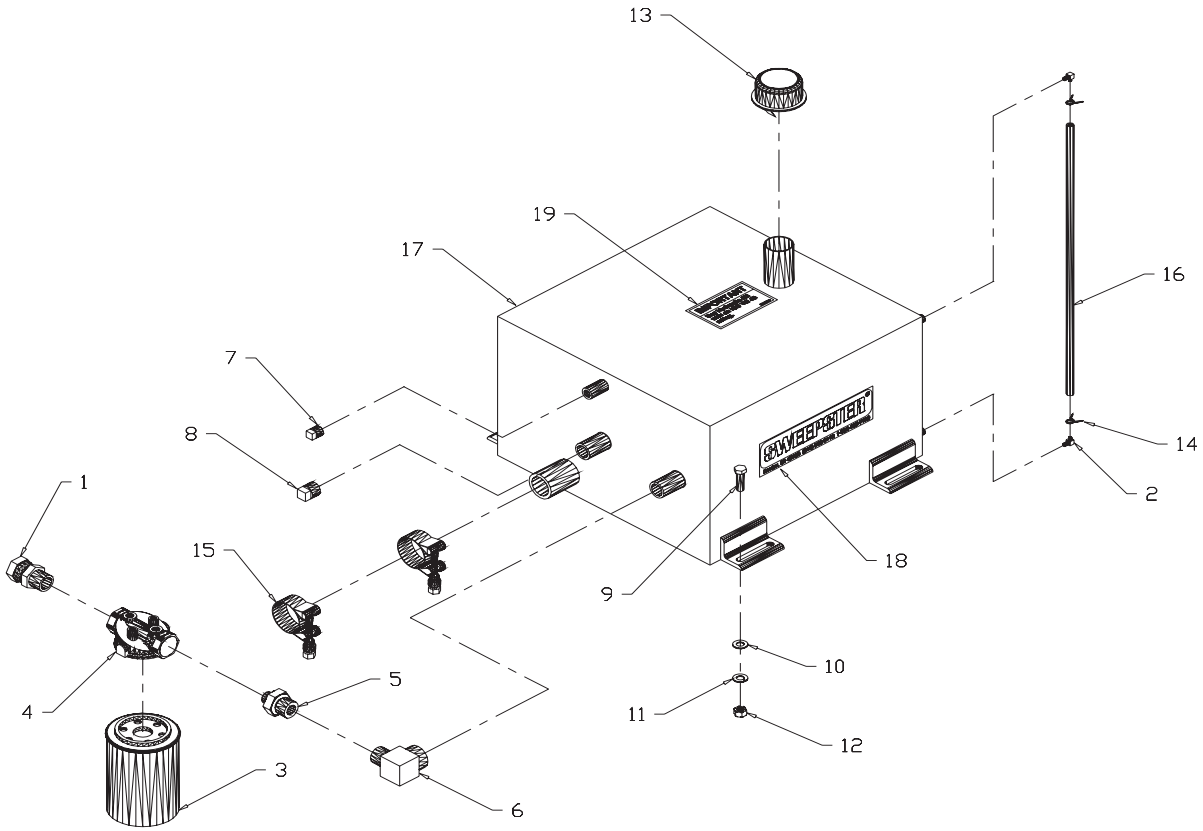
Item	Part	Qty	Description
1.	03-0039	1	Fitting, Adapter, HP, 3/4MP, 3/4FPS
2.	03-0129	1	Valve, Relief, 3/4 Ports
3.	03-0678	1	Pump, Tyrone (11-5313)
	03-1433	1	Pump, Tyrone (11-5314)
	03-1434	1	Pump, Tyrone (11-5315)
	03-1455	1	Pump, Tyrone (11-5316)
	03-2008	1	Pump, Tyrone (11-5317)
	03-1706		Kit, Seal, Pump, Tyrone
4.	03-0992	1	Fitting, Tee, HP, MB, 3/4FP, 3/4MP
5.	03-1022-10	1	Fitting, Nipple, HP, Hex, 3/4MP, 3/4MP
6.	03-1039	2	Fitting, Street, Elbow, HP, 90°, 3/4
7.	03-1334	1	Spacer, A Flange
8.	03-1943	2	Fitting, Adapter, HP, 3/4MFS, 3/4MP
9.	05-0802	1	Block, Bearing, 1 Round, 3/4 Round
10.	07-3279	4	Washer, Flat, 3/8
11.	07-1718	2	Washer, Lock, Split, 3/8
12.	07-3654	2	Nut, Hex, 3/8-16
13.	07-2488	2	Screw, Cap, 3/8 x 4 1/2

CTM Tank Assemblies
11-5318,11-5320



Item	Parts	Qty	Description
1.	03-0376	1	Fitting, Elbow, HP, 90°, 1 5/16MOR, 3/4FPS
2.	03-0710	1	Fitting, Barb, HP, 90°, 1 1/4, 1 5/16MOR
3.	03-3815	1	Gauge, Sight, Window, 1 inch, Nylon
4.	03-3816	1	Filter, Hydraulic, Return Line, 39gpm
5.	03-5055	1	Cap, Filler, Breather, Hydraulic
6.	03-4642	1	Strainer, Filler, Spout, for 03-4939
7.	07-1717	4	Bolt, Carriage, Gr5, 3/8-16 x 1 1/4
8.	07-1718	4	Washer, Lock, Split, Medium, 3/8
9.	07-3273	2	Washer, Lock, Split, Medium, 5/16
10.	07-3275	2	Washer, Flat, Gr8, 5/16
11.	07-3279	4	Washer, Flat, Gr8, 3/8
12.	07-3647	2	Screw, HHC, Gr8, 5/16-18 x 1 1/2
13.	07-3654	4	Nut, Hex, Gr8, 3/8-16
14.	13-13254	1	Weld, Tank, Front (11-5320)
	13-12698	1	Weld, Tank, Front (11-5318)
15.	50-0185	1	Label, Logo, Sweepster, White, Medium
16.	50-0272	1	Label, Oil, ISO VG 46
17.	50-0439	1	Label, Warning, Inspect Hydraulic Components

CTH Tank Assembly
11-5319

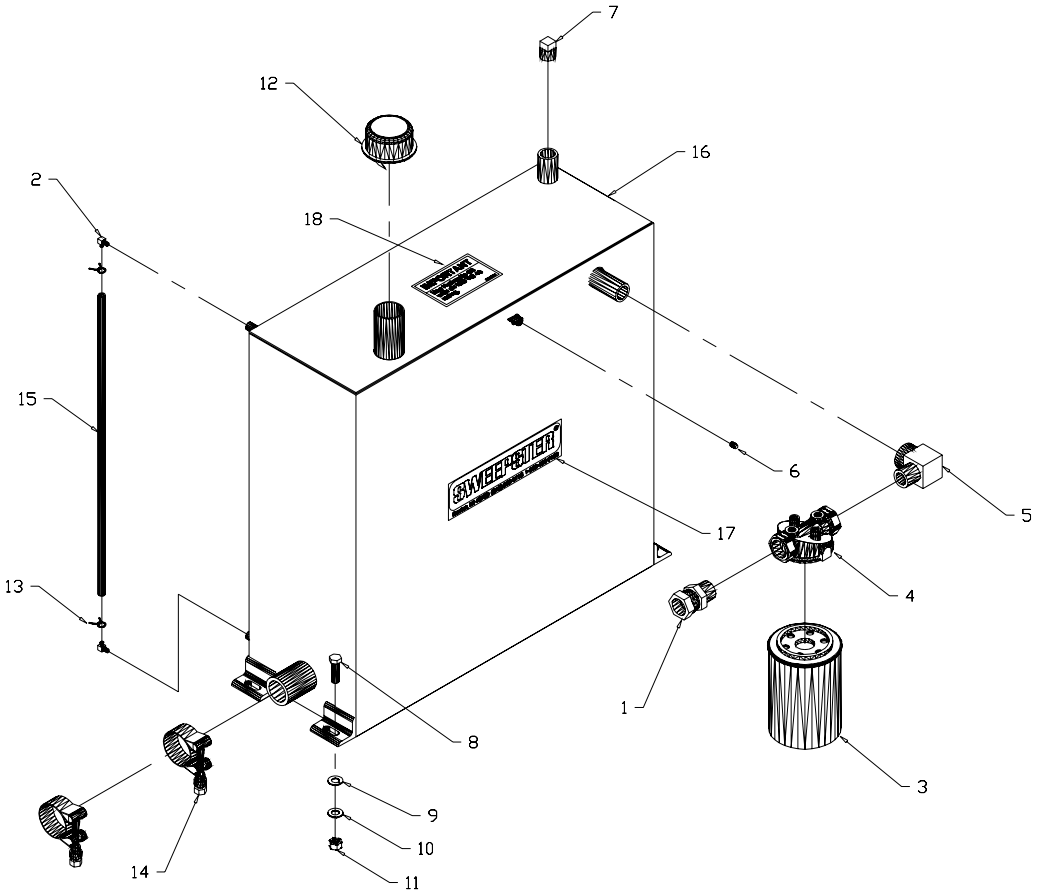


Item	Parts	Qty	Description
1.	03-0039	1	Fitting, Adapter, HP, 3/4MP, 3/4FPS
2.	03-0454	2	Fitting, Barb, HP, 90°, 1/4, 1/8MP
3.	03-0744	1	Filter, Element, 25 Micron, Spin-On
4.	03-0745	1	Filter, Base, Spin-On
5.	03-0834	1	Fitting, Nipple, HP, Hex, 3/4MP, 1/2MP
6.	03-1049	1	Fitting, Street Elbow, HP, 90°, 1/2P
7.	03-1182-2	1	Fitting, Plug, BP, Square, 1/4
8.	03-1182-4	1	Fitting, Plug, BP, Square, 1/2
9.	07-2116	4	Screw, Cap, 3/8-16 x 1 1/4
10.	07-3279	4	Washer, Flat, 3/8
11.	07-1718	4	Washer, Lock, Split, 3/8
12.	07-3654	4	Nut, Hex, 3/8-16
13.	07-0245	1	Cap, Breather
14.	07-0551	2	Clamp, Spring, 1/4 Hose
15.	07-1192	2	Clamp, T-Bolt, 1 1/4
16.	09-0054	3/4ft	Tube, Ply, 3/8, 1/4 Sight Gauge
17.	11-2147	1	Tank, Hydraulic
18.	50-0184	1	Label, Sweepster, White, Small
19.	50-0272	1	Label, Oil, ISO VG-46

Not Shown:

	50-0439	1	Label, Warning, Inspect Hydraulics

CTH Tank Assembly
11-5321

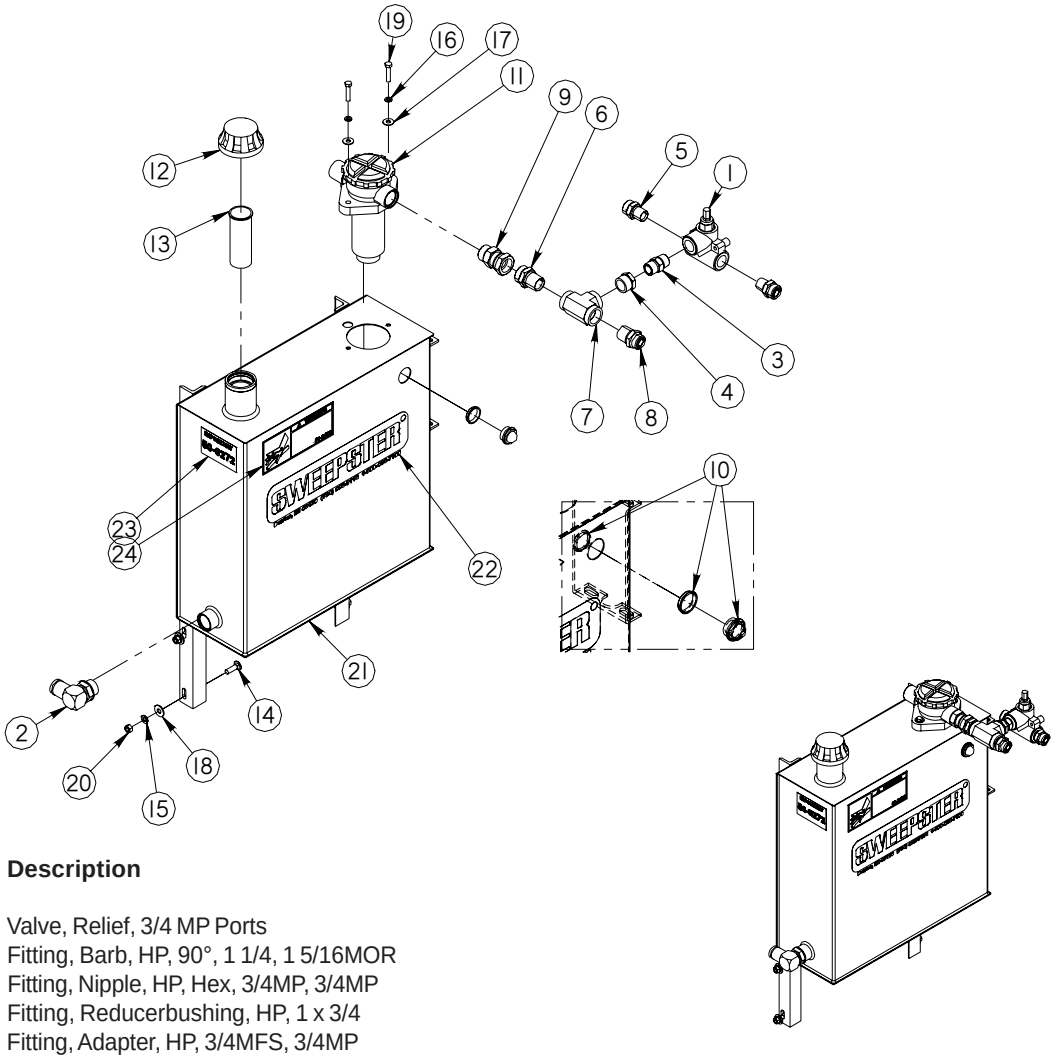


Item	Part	Qty	Description
1.	03-0039	1	Fitting, Adapter, HP, 3/4MP, 3/4FPS
2.	03-0454	2	Fitting, Barb, HP, 90°, 1/4, 1/8MP
3.	03-0744	1	Filter, Element, 25 Micron, Spin-On
4.	03-0745	1	Filter, Base, Spin-On
5.	03-1039	1	Fitting, St Elbow, HP, 90°, 3/4
6.	03-1182-1	1	Fitting, Plug, BP, Square, 1/8
7.	03-1182-4	1	Fitting, Plug, BP, Square, 1/2
8.	07-0025	4	Screw, HHC, Gr2, 3/8-16 x 1-1/4
9.	07-0154	4	Washer, Flat, Gr2, 3/8
10.	07-0168	4	Washer, Lock, Split, Gr2, 3/8
11.	07-0183	4	Nut, Hex, Gr2, 3/8-16
12.	07-0245	1	Cap, Breather, Hydraulic Tank
13.	07-0551	2	Clamp, Spring, 1/4, Hose
14.	07-1192	2	Clamp, T-Bolt, 1-1/4
15.	09-0054	1.5 ft	Tube, Bulk, Ply, 3/8, 1/4, Sight Gage
16.	11-7582	1	Weld, Tank, Hydraulic
17.	50-0184	1	Label, Sweepster, Small, White
18.	50-0272	1	Label, Oil, ISO VG 46

Not Shown:

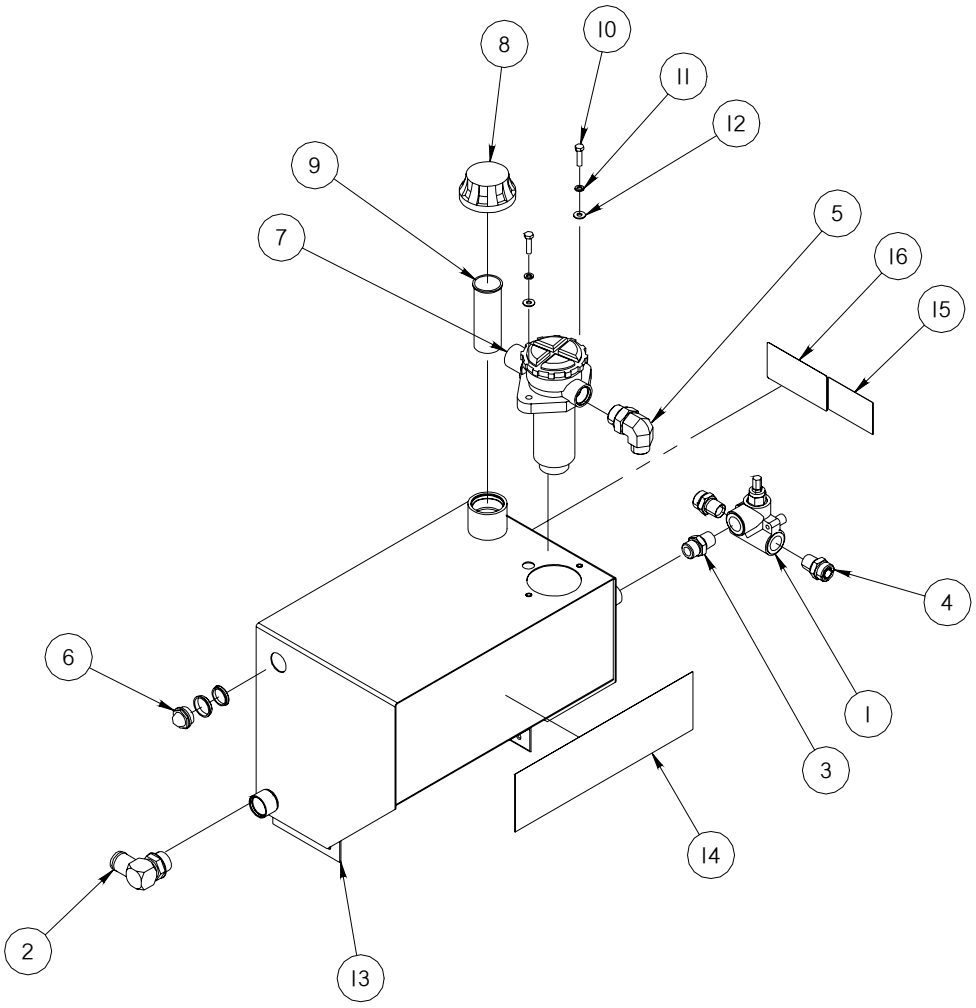
	50-0439	1	Label, Warning, Inspect Hydraulics

MRH Tank Assembly
11-5327



Item	Part	Qty	Description
1.	03-0129	1	Valve, Relief, 3/4 MP Ports
2.	03-0710	1	Fitting, Barb, HP, 90°, 1 1/4, 1 5/16MOR
3.	03-1022-10	1	Fitting, Nipple, HP, Hex, 3/4MP, 3/4MP
4.	03-1068-13	1	Fitting, Reducerbushing, HP, 1 x 3/4
5.	03-1943	2	Fitting, Adapter, HP, 3/4MFS, 3/4MP
6.	03-2729	1	Fitting, Adapter, HP, 1MP, 1MFS
7.	03-2910	1	Fitting, Tee, HP, 1FP, All Ends
8.	03-2911	1	Fitting, Adapter, HP, 3/4MFS, 1MP
9.	03-3778	1	Fitting, Adapter, HP, 1 5/16MOR, 1FFS
10.	03-3815	1	Gauge, Sight, Window, 1 inch, Nylon
11.	03-3816	1	Filter, Hydraulic, Return Line, 39 gpm
12.	03-5055	1	Cap, Filler, Breather, Hydraulic
13.	03-4642	1	Strainer, Filler, Spout
14.	07-1717	4	Bolt, Carriage, Gr5, 3/8-16 x 1 1/4
15.	07-1718	4	Washer, Lock, Split, Medium, 3/8
16.	07-3273	2	Washer, Lock, Split, Medium, 5/16
17.	07-3275	2	Washer, Flat, Gr8, 5/16
18.	07-3279	4	Washer, Flat, Gr8, 3/8
19.	07-3647	2	Screw, HHC, Gr8, 5/16-18 x 1 1/2
20.	07-3654	4	Nut, Hex, Gr8, 3/8-16
21.	13-12698	1	Weld, Tank, Front
22.	50-0185	1	Label, Logo, Sweepster, White, Medium
23.	50-0272	1	Label, Oil, ISO VG-46
24.	50-0439	1	Label, Warning, Inspect Hydraulic Components

MRH Tank Assembly
11-5350

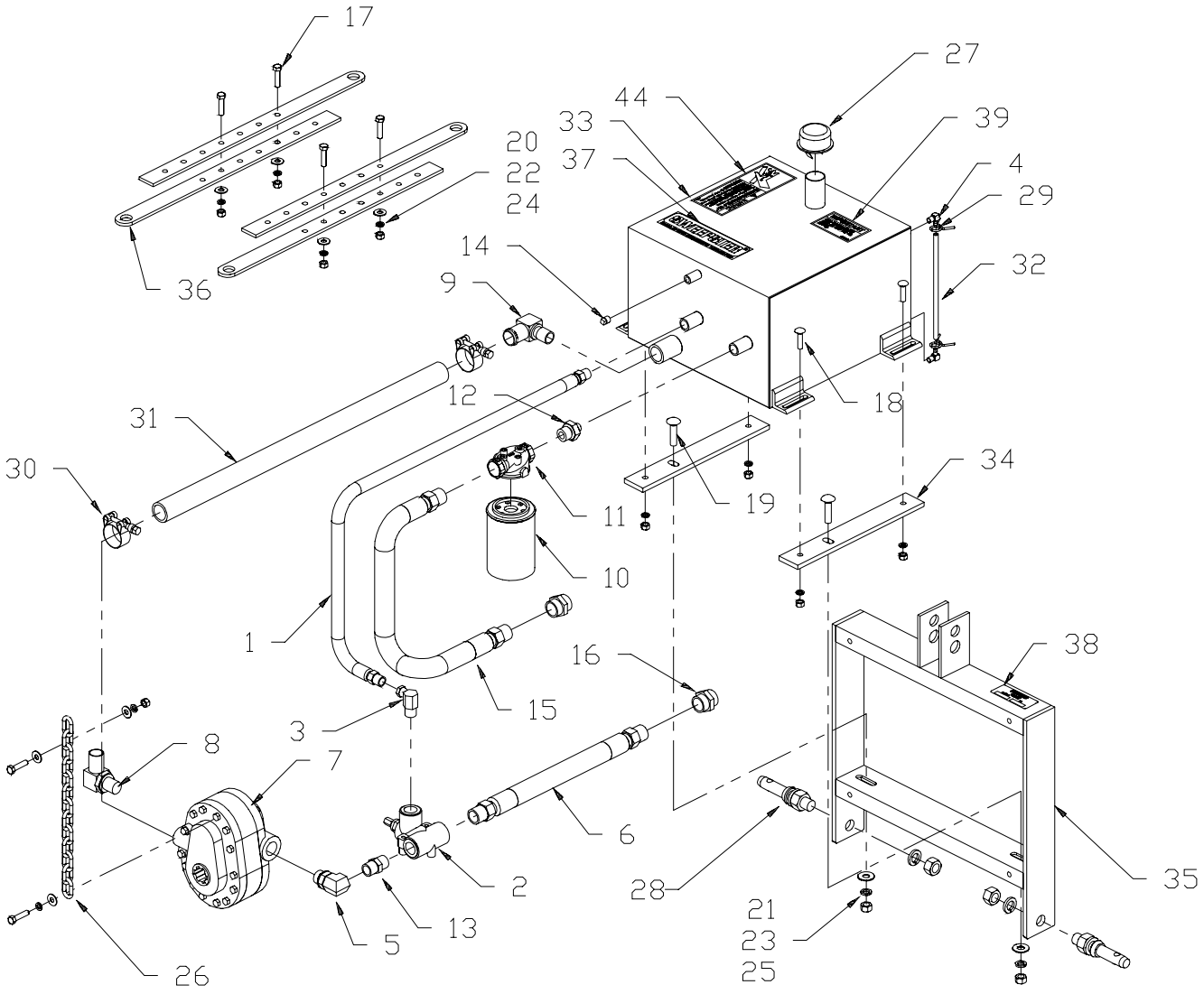


Item	Part	Qty	Description
1.	03-0129	1	Valve, Relief, 3/4 Ports
2.	03-0710	1	Fitting, Barb, HP, 90°, 1 1/4, 1 5/16MOR
3.	03-0938	1	Fitting, Adapter, HP, 1 1/16MOR, 3/4MP
4.	03-1943	2	Fitting, Adapter, HP, 3/4MFS, 3/4MP
5.	03-1956	1	Fitting, Elbow, HP, 90°, 1 5/16MOR, 3/4MFS
6.	03-3815	1	Gauge, Sight, Window, 1 Inch
7.	03-3816	1	Filter, Hydraulic, Return Line
8.	03-5055	1	Cap, Filler, Breather, Hydraulic
9.	03-4642	1	Strainer, Filler Spout
10.	07-1973	2	Screw, HHC, Gr8, 5/16-18 x 1 1/4
11.	07-3273	2	Washer, Lock, Split, Medium, 5/16
12.	07-4032	2	Washer, Flat, Gr8, 1/4
13.	13-14121	1	Weld, Tank
14.	50-0185	1	Label, Logo, Sweepster, White, Medium
15.	50-0272	1	Label, Oil, ISO, VG-46
16.	50-0725	1	Label, Warning, High Pressure Fluid Hazard

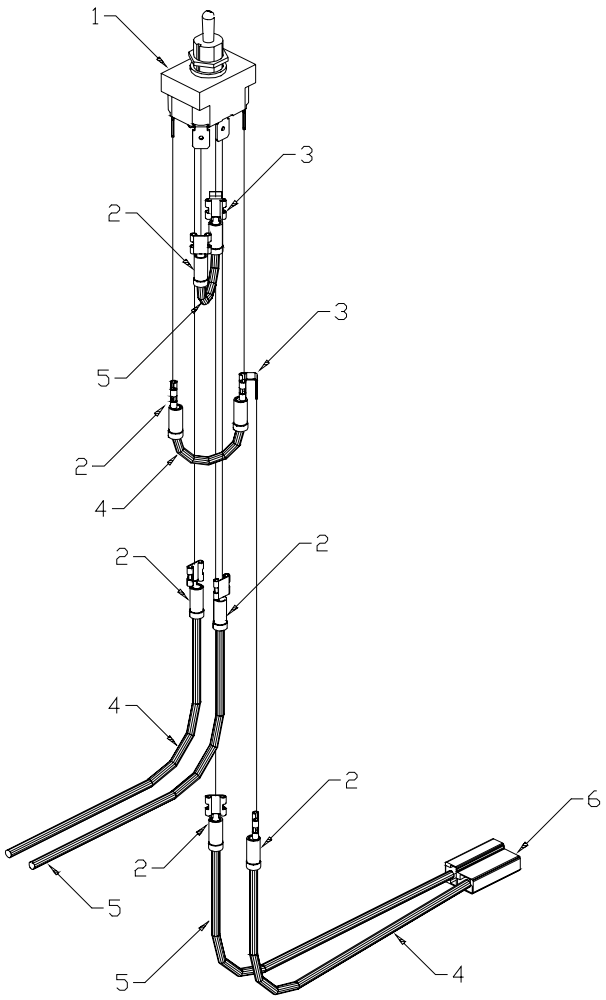
MRHL Power Pack
11-7692

Item	Part	Qty	Description
1.	03-0123	1	Hose, 1/2 x 48, 1W, 1/2MP, 1/2MP
2.	03-0129	1	Valve, Relief, 3/4 Ports
3.	03-0374	1	Fitting, Elbow, HP, 90°, 3/4MP, 1/2FPS
4.	03-0454	2	Fitting, Barb, HP, 90°, 1/4, 1/8MP
5.	03-0577	1	Fitting, Elbow, HP, 90°, 1 1/16MOR, 3/4FP
6.	03-0586	1	Hose, 3/4 x 156, 2W, 3/4MP, 3/4MP
7.	03-0691	1	Pump, PTO, 12gpm
8.	03-0710	1	Fitting, Barb, HP, 90°, 1 1/4, 1 5/16MOR
9.	03-0711	1	Fitting, Barb, HP, 90°, 1 1/4, 1MP
10.	03-0744	1	Filter, Element, 25 Micron, Spin-On
11.	03-0745	1	Filter, Base, Spin-On
12.	03-0834	1	Fitting, Nipple, HP, Hex, 3/4MP, 1/2MP
13.	03-1022-10	1	Fitting, Nipple, HP, Hex, 3/4MP, 3/4MP
14.	03-1182-2	1	Fitting, Plug, BP, Square, 1/4P
15.	03-1225	1	Hose, 3/4 x 156, 1W, 3/4MP, 3/4MP
16.	03-1504	2	Fitting, Coupling, HP, 3/4, 3/4
17.	07-3655	6	Screw, HHC, Gr8, 3/8 x 1 1/2
18.	07-1730	4	Bolt, Carriage, Gr5, 3/8 x 1 1/2
19.	07-3708	2	Bolt, Carriage, Gr5, 1/2 x 1 1/2
20.	07-3279	7	Washer, Flat, Gr8, 3/8
21.	07-0156	2	Washer, Flat, Gr8, 1/2
22.	07-1718	10	Washer, Lock, Split, Medium, 3/8
23.	07-1762	2	Washer, Lock, Split, Medium, 1/2
24.	07-3654	9	Nut, Hex, Gr8, 3/8-16
25.	07-1764	2	Nut, Hex, Gr8, 1/2-13
26.	07-0217	1	Chain, 1/4, 10 Links
27.	07-0245	1	Cap, Breather
28.	07-0285	2	Pin, Link, Gr2
29.	07-0551	2	Clamp, Spring, 1/4 Hose
30.	07-1192	2	Clamp, T-Bolt, 1 1/4
31.	09-0020	4ft	Hose, Suction, 1 1/4
32.	09-0054	.75ft	Tube, 3/8, 1/4 Sight Gauge
33.	11-2147	1	Weld, Tank
34.	11-6115	2	Plate, Mounting, Tank
35.	11-7461	1	Weld, Mounting, Tank
36.	11-7466	4	Arm, Mounting, Tank, Hydraulic
37.	50-0184	1	Label, Sweepster, White, Small
38.	50-0249	1	Label, Plate, Part Number
39.	50-0272	1	Label, Oil, ISO, VG-46
44.	50-0439	1	Label, Warning, Inspect Hydraulic Components

MRHL Power Pack
11-7692



Electric Lift Wiring Harness
11-1810



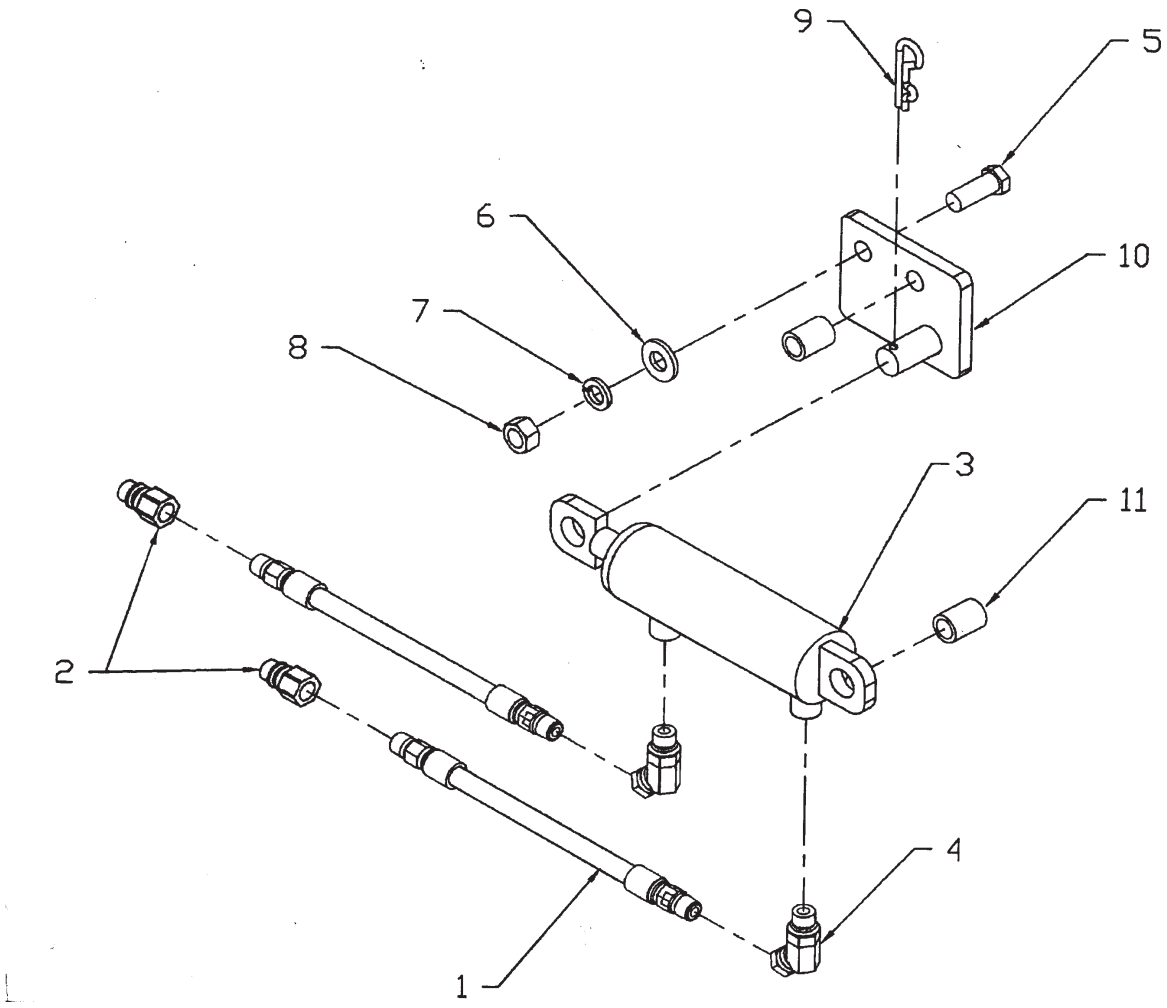
Item	Part	Qty	Description
1.	07-0351A	1	Switch, Toggle, 6 Prong
2.	07-0814	6	Terminal, Connector, 1/4, Female, 16-14
3.	07-0815	2	Terminal, Connector, 1/4, Male/Female, 16-14
4.	07-832	8.25	Wire, Red, 16Ga
5.	07-0833	8.25	Wire, Yellow, 16 Ga
6.	07-2537	1	Connector, Actuator

Options

S26 & S30 Series Angle Brooms

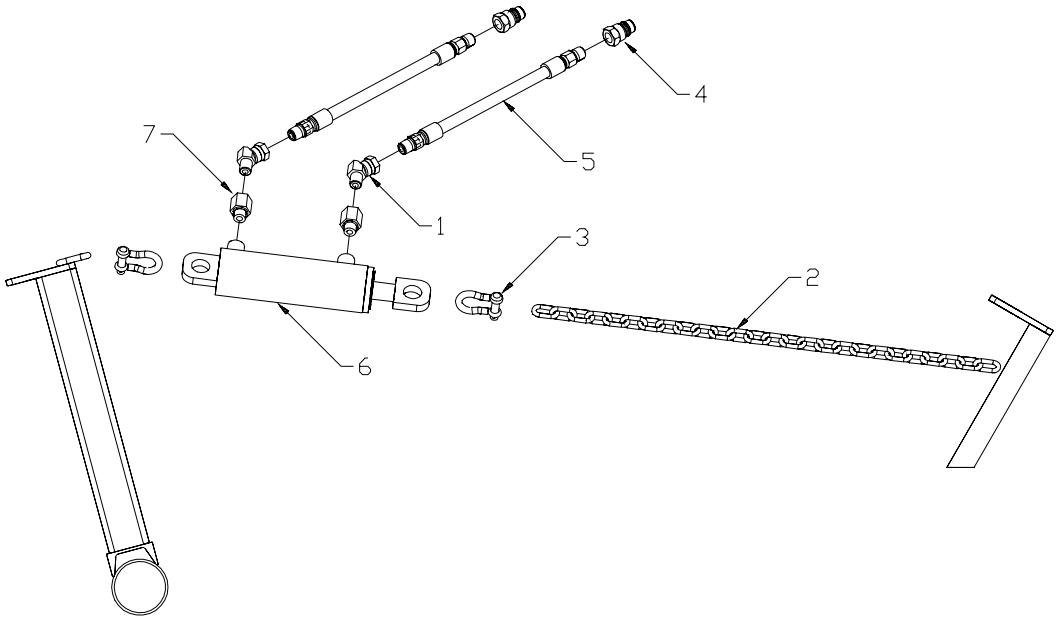
Table of Contents

Hydraulic Lift
Kit 13-3149



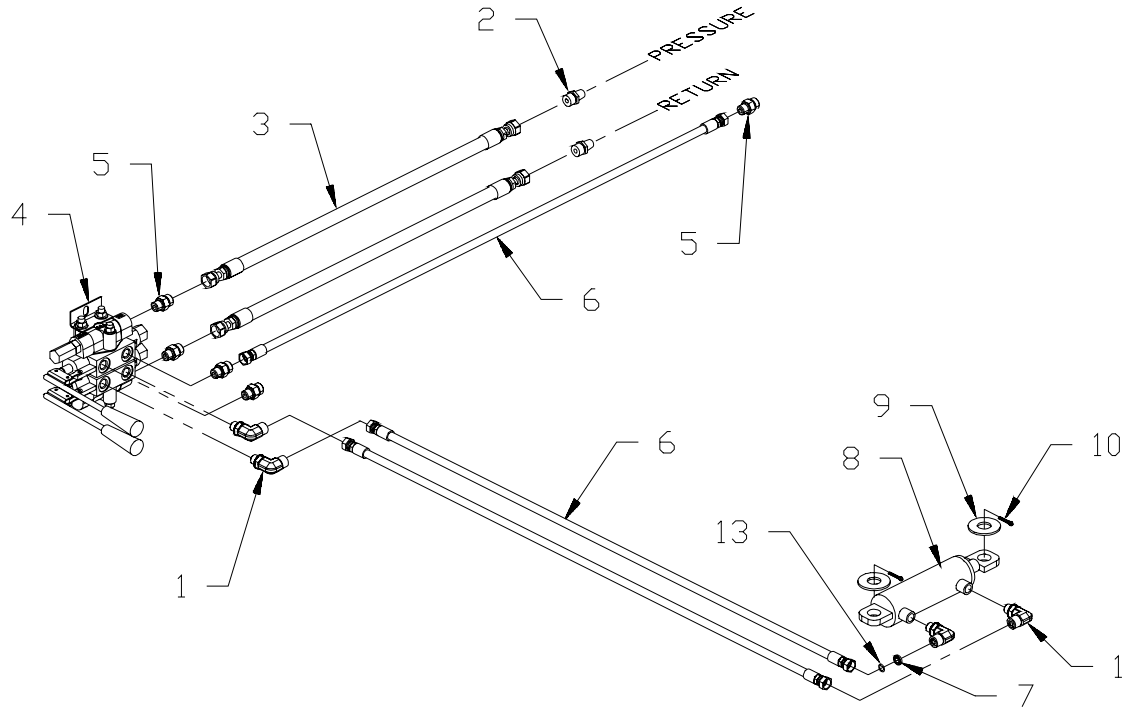
Item	Part	Qty	Description
1.	03-0011	2	Hose, 1/4 x 36, 1W, 1/4MP
2.	03-1423	2	Fitting, Quick Coupler, Male, 1/4FP
3.	03-1851	1	Cylinder, 1 3/4 x 4 x 9 9/16 O-Ring
4.	03-1884	2	Fitting, Elbow, HP, 45°, 9/16MOR, 1/4FPS
5.	07-0039	1	Screw, Cap, 1/2-13 x 1 1/4
6.	07-0156	1	Washer, Flat, 1/2
7.	07-0170	1	Washer, Lock, Split, 1/2
8.	07-1764	1	Nut, Hex, 1/2-13
9.	07-0210	1	Clip, Hairpin, 14Ga x 1 3/4
10.	13-3132	1	Lift, Hydraulic
11.	13-4168	2	Bushing, Spacer, Hydraulic Lift

Hydraulic Lift
11-9250



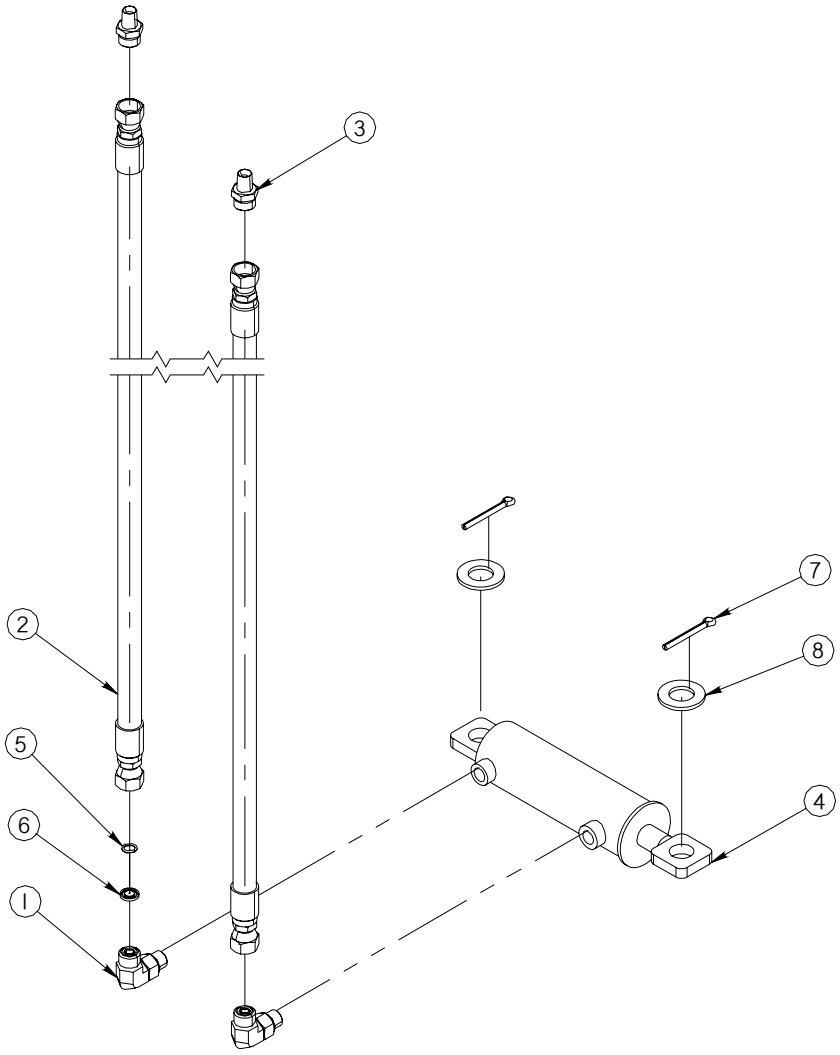
Item	Part	Qty	Description
1.	03-1053	2	Fitting, Elbow, HP, 45°, 1/4MP, 1/4FPS
2.	07-0387	1	Chain, 3/16, 26 Links
3.	07-1732	2	Shackle, Chain, 5/16, Round Pin
4.	03-1423	2	Fitting, Quick Coupler, Male, 1/4FP
5.	03-0011	2	Hose, 1/4 x 36, 1W, 1/4MP
6.	03-3381	1	Cylinder, 1 3/4 x 4 x 9
7.	03-0898	2	Fitting, Adapter, HP, 3/16MOR, 1/4FP

Hydraulic Lift/Swing
11-4219



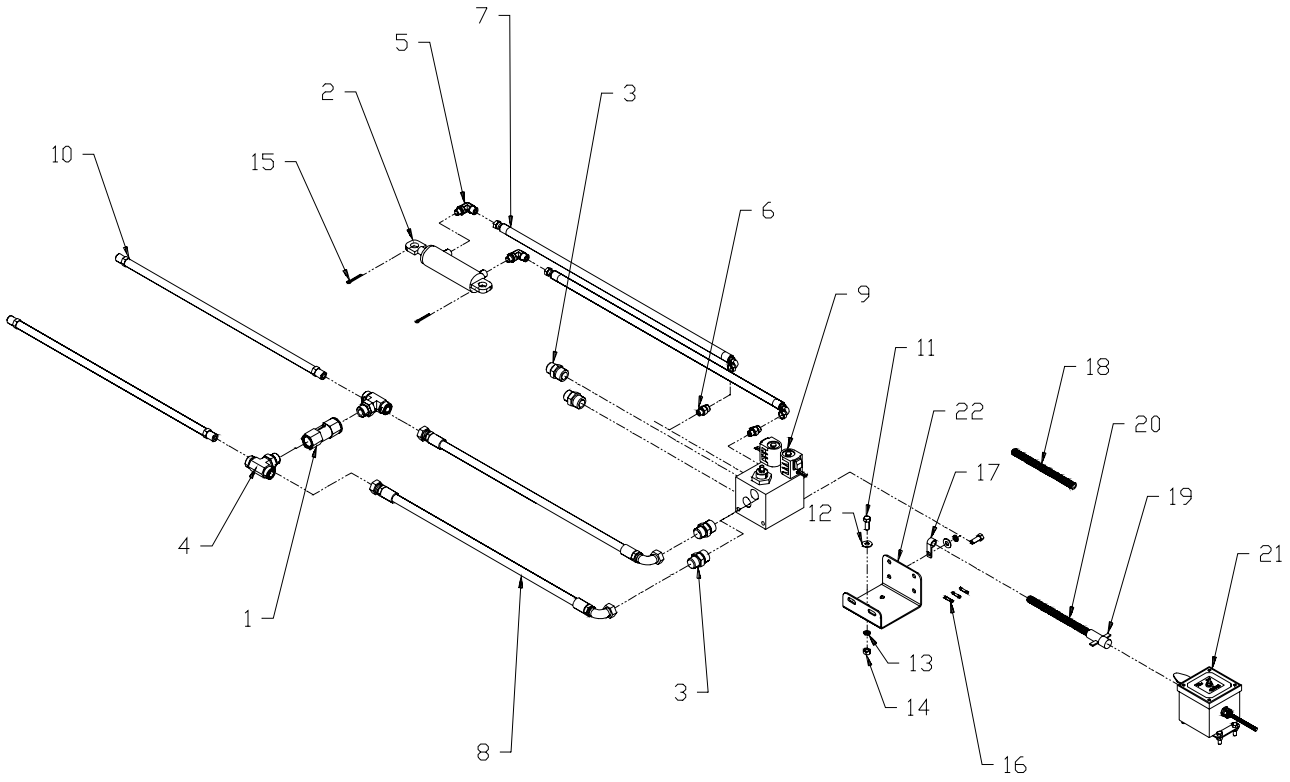
Item	Part	Qty	Description
1.	03-2092	4	Fitting, Elbow, HP, 90°, 9/16MOR, 3/8MFS
2.	03-2159	2	Fitting, Adapter, HP, 3/8MFS, 1/4MP
3.	03-2275	2	Hose, 3/8 x 64, 2W, 3/8FFS, 3/8FFS
4.	03-0701	1	Valve
5.	03-2291	5	Fitting, Adapter, HP, 9/16MOR, 3/8MFS
6.	03-2340	3	Hose, 3/8 x 144, 1W, 3/8FFS, 3/8FFS
7.	03-4668	1	Plate, Hydraulic Orifice, .028, #6 O-Ring
8.	03-3381	1	Cylinder, 1 3/4 x 4 x 9
9.	07-1959	2	Washer, Flat, Gr8, Large, 3/4
10.	07-0785	2	Pin, Cotter, Gr2, 3/16 x 1 1/4
13.	03-3573	1	O-Ring, Face Seal, 3/8

Hydraulic Swing
11-4191



Item	Part	Qty	Description
1.	03-2092	2	Fitting, Elbow, HP, 90°, 9/16MOR, 3/8MFS
2.	03-2093	2	Hose, 3/8 x 48, 1W, 3/8FFS, 3/8FFS
3.	03-2159	2	Fitting, Adapter, HP, 3/8MFS, 1/4MP
4.	03-3381	1	Cylinder, Hydraulic, 1 3/4 x 4 x 9
5.	03-3573	1	O-Ring, Face Seal, 3/8, SAE #6
6.	03-4668	1	Plate, Hydraulic, Orifice, .028, #6 O-Ring Face Seal
7.	07-0206	2	Pin, Cotter, Gr2, 3/16 x 2
8.	07-1782	2	Washer, Flat, Gr2, 3/4SAE, 1 1/2

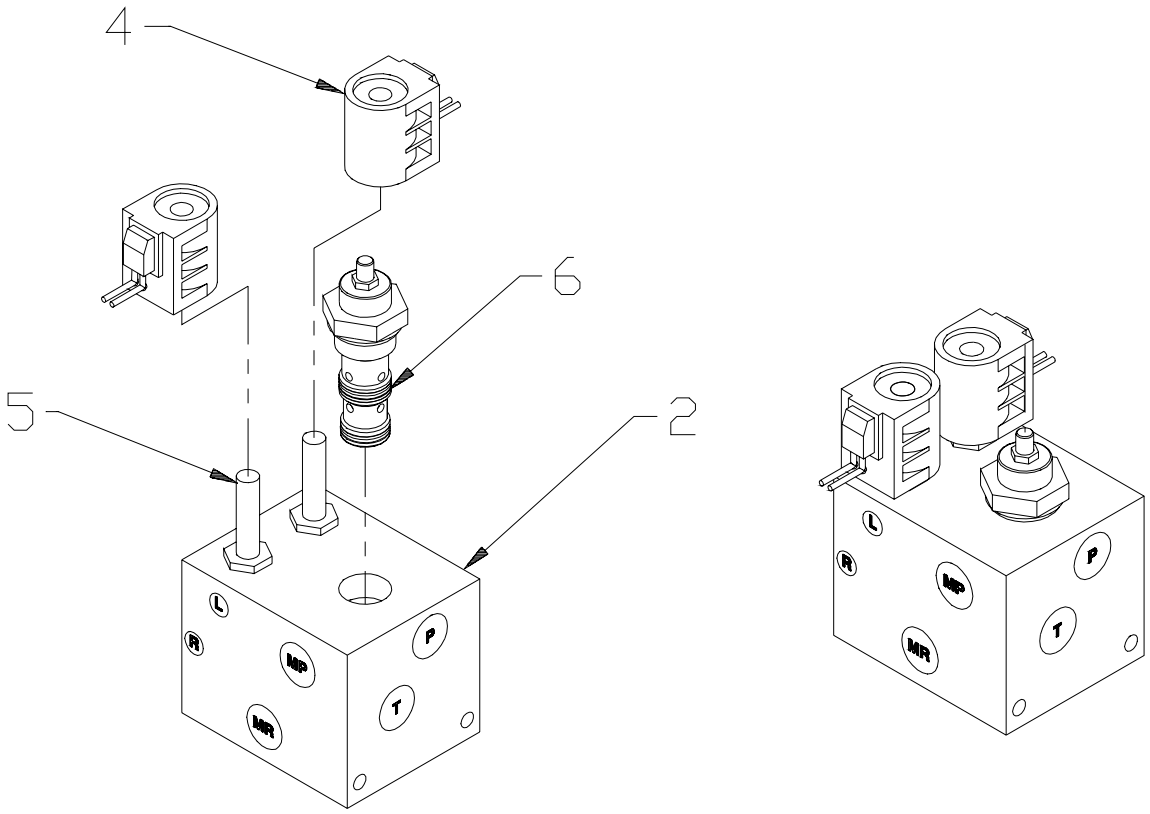
Hydraulic Swing with Electric Valve
11-5310



Item	Part	Qty	Description
1.	03-1816	1	Valve, Check, Inline
2.	03-1851	1	Cylinder, 1 3/4 x 4 x 9 9/16OR
3.	03-1945	4	Fitting, Adapter, HP, 1 1/16MOR, 3/4MFS
4.	03-1950	2	Fitting, Tee, HP, 3/4MFS
5.	03-2092	2	Fitting, Elbow, HP, 90°, 3/16MOR, 3/8MFS
6.	03-2291	2	Fitting, Adapter, HP, 3/8MFS, 9/16MOR
7.	03-2352	2	Hose, 3/8 x 32, 2W, 3/8FFS90, 3/8FFS
8.	03-2474	2	Hose, 3/4 x 36, 2W, 3/4FFS, 3/4FFS
9.	03-2543	1	Manifold, 12 Volt, Swing, with Screen
10.	03-2556	2	Hose, 3/4 x 24, 2W, 3/4FFS, 3/4FFS90
11.	07-0024	6	Screw, HHC, Gr2, 3/8 x 1

Item	Part	Qty	Description
12.	07-0154	6	Washer, Flat, Gr2, 3/8
13.	07-0168	6	Washer, Lock, Split, Gr2, 3/8
14.	07-0183	2	Nut, Hex, Gr2, 3/8-16
15.	07-0206	2	Pin, Cotter, Gr2, 3/16 x 2
16.	07-0867	3	Terminal, Butt, Spline, 16-14
17.	07-1177	1	Clamp, Rubber Coat, 1/2
18.	07-1834	.75ft	Loom, Flex, Guard, .5
19.	07-2153	1	Connector, Trailer, 4 Prong
20.	07-2920	12ft	Wire, Cord, 12Ga,
21.	11-5305	1	Assembly, Control Box
22.	13-11488	1	Bracket, Hydraulic Angle

Hydraulic Swing with Electric Valve
03-2543



Item	Part	Qty	Description
2.	03-2543	1	Manifold, 12 Volt, Swing, with Screen
4.	07-3077	2	Coil, 12 Volt, Delta, Manifold Block
5.	07-3080	2	Valve, Cartridge, Swing, Left/Right
	03-1509		Kit, Seal, for 07-3080
6.	07-3082	1	Valve, Cartridge, Flow Divider
	03-2926		Kit, Seal, for 07-3082

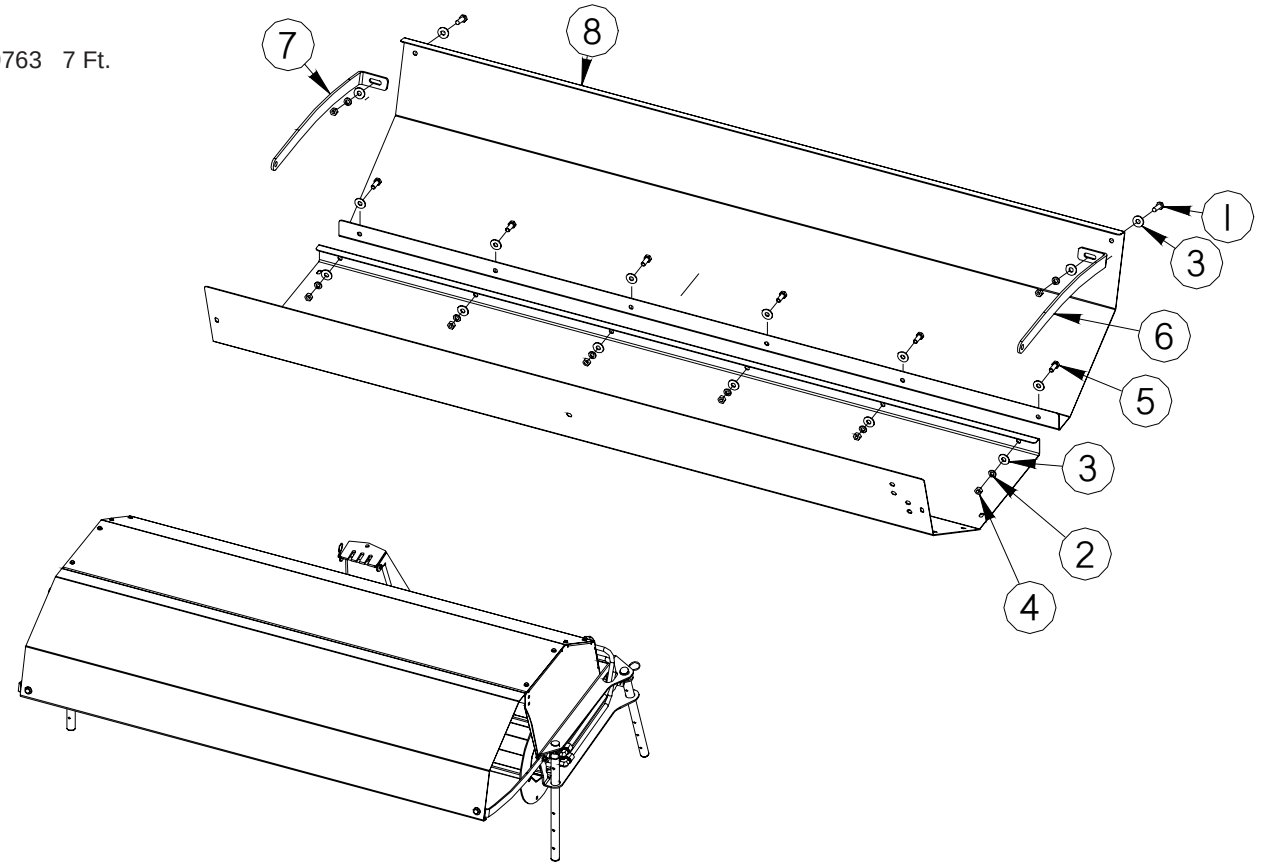
Dirt Deflector Kits S26 & S30

S26 & S30

28-9757 4 Ft.
28-9756 5 Ft.
28-9752 6 Ft.

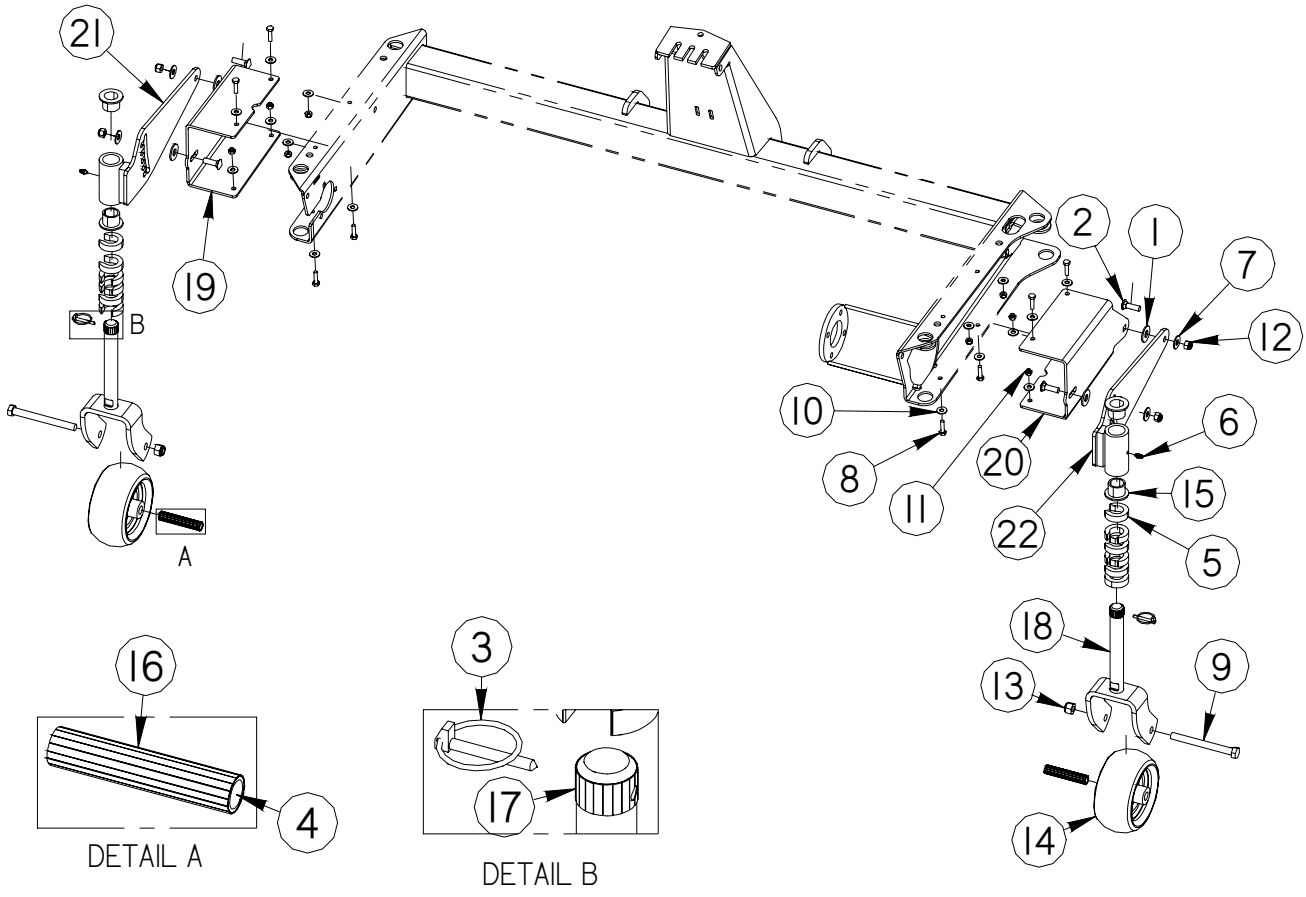
S30

28-9763 7 Ft.



Item	Part	Qty	Description
1.	07-1714	2	Screw, HHC, Gr8, 5/16-18 x 1
2.	07-3273	7	Washer, Lock, Split, Medium, 5/16 (4 Ft.)
		8	Washer, Lock, Split, Medium, 5/16 (5-6 Ft.)
		9	Washer, Lock, Split, Medium, 5/16 (7 Ft.)
3.	07-3275	14	Washer, Flat, Gr8, 5/16 (4 Ft.)
		16	Washer, Flat, Gr8, 5/16 (5-6 Ft.)
		18	Washer, Flat, Gr8, 5/16 (7 Ft.)
4.	07-3278	7	Nut, Hex, Gr8, 5/16-18 (4 Ft.)
		8	Nut, Hex, Gr8, 5/16-18 (5-6 Ft.)
		9	Nut, Hex, Gr8, 5/16-18 (7 Ft.)
5.	07-3436	5	Screw, HHC, Gr8, 5/16-18 x 3/4 (4 Ft.)
		6	Screw, HHC, Gr8, 5/16-18 x 3/4 (5-6 Ft.)
		7	Screw, HHC, Gr8, 5/16-18 x 3/4 (7 Ft.)
6.	13-13634	1	Plate, Mounting, Left
7.	13-13635	1	Plate Mounting, Right
8.	13-13645	1	Sheet, Dirt Deflector (4 Ft.)
	13-13644	1	Sheet, Dirt Deflector (5 Ft.)
	13-13633	1	Sheet, Dirt Deflector (6 Ft.)
	13-13667	1	Sheet, Dirt Deflector (7 Ft.)

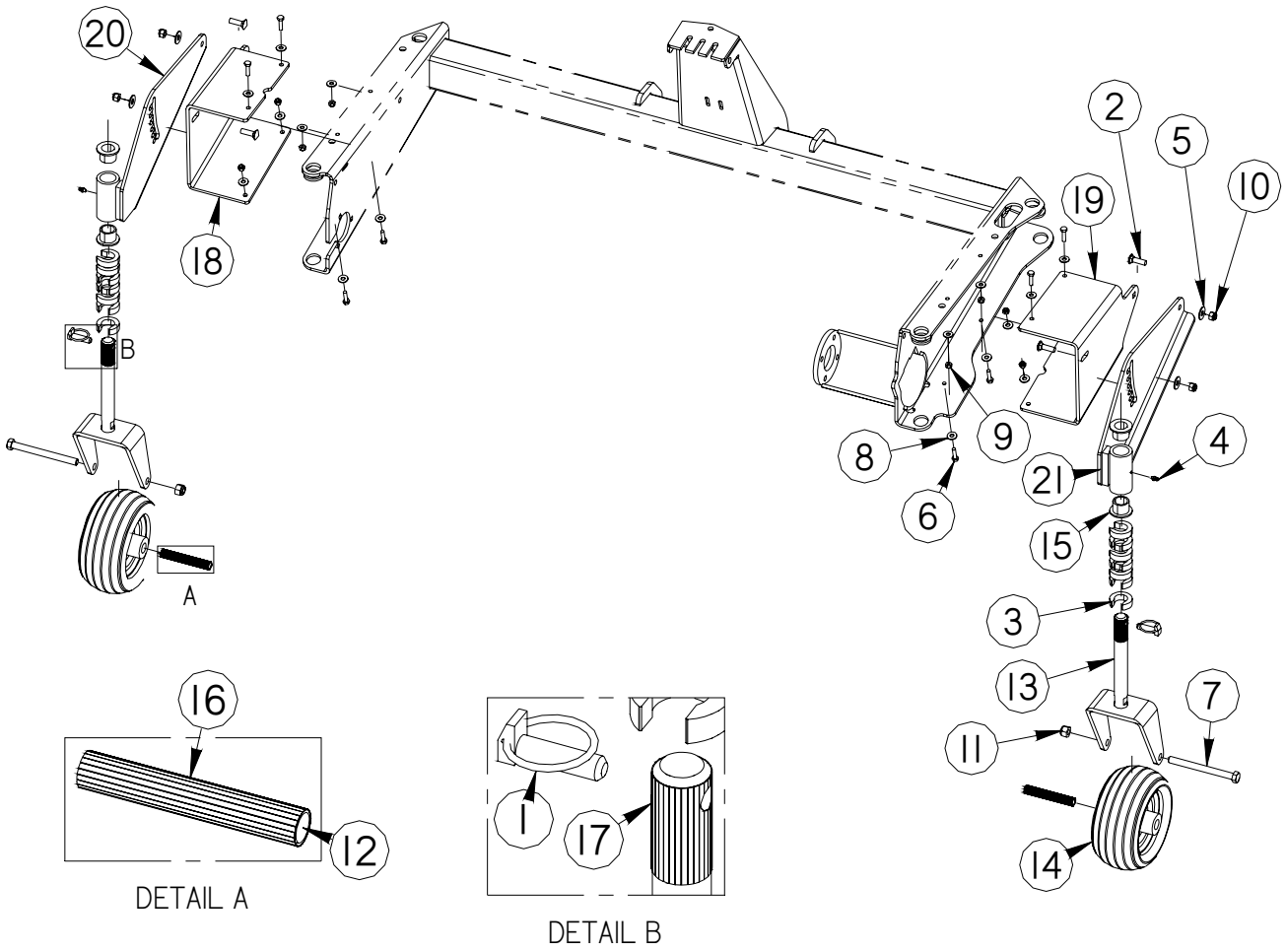
Side Caster Kit
28-9890
S26



Item	Part	Qty	Description
1.	07-0156	4	Washer, Flat, Gr8, 1/2
2.	07-1717	4	Bolt, Carriage, Gr5, 3/8-16 x 1 1/4
3.	07-2843	2	Pin, Klik, 3/16 x 1 5/8
4.	07-3013	2	Bushing, Caster
5.	07-3015	12	Spacer, Caster
6.	07-3112	2	Fitting, Zerk, 1/4-28, Self-Tap
7.	07-3279	4	Washer, Flat, Gr8, 3/8
8.	07-3637	8	Screw, HHC, Gr8, 1/4-20 x 1
9.	07-3676	2	Screw, HHC, Gr8, 1/2-13 x 5
10.	07-4032	16	Washer, Flat, Gr8, 1/4
11.	07-4033	8	Nut, Hex, Nylock, Gr8, 1/4-20

Item	Part	Qty	Description
12.	07-4036	4	Nut, Hex, Nylock, 3/8-16
13.	07-4037	2	Nut, Hex, Nylock, Gr8, 1/2-13
14.	07-4367	2	Wheel, Caster, 6.25 x 5/8, Black
15.	08-0131	4	Bearing, Caster
16.	08-2237	16oz	Spray, Corrosion Inhibitor
17.	08-2237	16oz	Spray, Corrosion Inhibitor
18.	13-12343	2	Weld, Caster Fork
19.	13-14209	1	Plate, Mounting, Caster, Right
20.	13-14210	1	Plate, Mounting, Caster, Left
21.	13-14211	1	Weld, Mounting, Caster, Right
22.	13-14212	1	Weld, Mounting, Caster, Left

Side Caster Kit
28-9891
S30



Item	Part	Qty	Description
1.	07-0680	2	Pin, Klik, 7/16 x 1 3/8
2.	07-1717	4	Bolt, Carriage, Gr5, 3/8-16 x 1 1/4
3.	07-3015	14	Spacer, Caster
4.	07-3112	2	Fitting, Zerk, 1/4-28, Self-Tap
5.	07-3279	4	Washer, Flat, Gr8, 3/8
6.	07-3637	8	Screw, HHC, Gr8, 1/4-20 x 1
7.	07-3677	2	Screw, HHC, Gr8, 1/2-13 x 5 1/2
8.	07-4032	16	Washer, Flat, Gr8, 1/4
9.	07-4033	8	Nut, Hex, Nylock, Gr8, 1/4-20
10.	07-4036	4	Nut, Hex, Nylock, 3/8-16
11.	07-4037	2	Nut, Hex, Nylock, Gr8, 1/2-13

Item	Part	Qty	Description
12.	07-4493	2	Spacer, Caster
13.	07-4494	2	Caster, Fork
14.	07-4495	2	Wheel, 8 Inch Solid, Black
15.	08-0131	4	Bearing, Caster
16.	08-2237	16oz	Spray Corrosion Inhibitor
17.	08-2237	16oz	Spray Corrosion Inhibitor
18.	13-14220	1	Plate, Mounting, Caster, Right
19.	13-14221	1	Plate, Mounting, Caster, Left
20.	13-14222	1	Weld, Mounting, Caster, Right
21.	13-14223	1	Weld, Mounting, Caster, Left

Appendix

S26 & S30 Series Angle Brooms

Table of Contents

Bolt Torque Specifications

Body Size Grade 5	Ft-lbs		Body Size Class 8.8	Ft-lbs
1/4 - 20	6 ± 1		M6 – 1.0	5 ± 1
- 28	7 ± 1		n/a	-
5/16 – 18	13 ± 3		n/a	-
- 24	14 ± 3		n/a	-
3/8 – 16	23 ± 5		M8 –1.25	14 ± 3
– 24	26 ± 5		–1.0	-
7/16 – 14	37 ± 8		M10 – 1.5	29 ± 6
– 20	41 ± 9		- 0.75	-
1/2 - 13	56 ± 11		M12 – 1.75	50 ± 10
- 20	63 ± 12		- 1.0	-
9/16 – 12	82 ± 14		M14 – 2.0	80 ± 14
- 18	91 ± 16		- 1.5	-
5/8 – 11	113 ± 20		M16 – 2.0	125 ± 22
- 18	127 ± 23		- 1.5	-
3/4 - 10	201 ± 26		n/a	-
- 16	223 ± 29		n/a	-
7/8 – 9	321 ± 41		M20 – 2.5	244 ± 31
- 14	355 ± 46		- 1.5	-
1 – 8	483 ± 62		M24 – 3.0	422 ± 54
- 12	528 ± 68		- 2.0	-

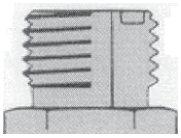
Body Size Grade 8	Ft-lbs		Body Size Class 10.9	Ft-lbs
1/4 - 20	9 ± 2		M6 – 1.0	8 ± 1
- 28	10 ± 2		n/a	-
5/16 – 18	18 ± 4		n/a	-
- 24	20 ± 4		n/a	-
3/8 – 16	32 ± 7		M8 –1.25	20 ± 4
– 24	37 ± 8		–1.0	-
7/16 – 14	52 ± 11		M10 – 1.5	40 ± 8
– 20	58 ± 12		- 0.75	-
1/2 - 13	80 ± 16		M12 – 1.75	69 ± 14
- 20	90 ± 18		- 1.0	-
9/16 – 12	115 ± 20		M14 – 2.0	110 ± 20
- 18	128 ± 23		- 1.5	-
5/8 – 11	159 ± 28		M16 – 2.0	173 ± 31
- 18	180 ± 32		- 1.5	-
3/4 - 10	282 ± 36		n/a	-
- 16	315 ± 41		n/a	-
7/8 – 9	454 ± 59		M20 – 2.5	337 ± 44
- 14	500 ± 65		- 1.5	-
1 – 8	681 ± 88		M24 – 3.0	583 ± 75
- 12	746 ± 97		- 2.0	-

Foot-pounds may be converted to Newton Meters by multiplying by 1.35582
Foot-pounds may be converted to Inch-pounds by multiplying by 12.
If the nut and screw are not the same grade, the lower grade will always be used.

NOTE - Nylock nuts are utilized when greater resistance to vibrating loose is required, and greater operating temperatures are not a factor. In addition, like lock nuts, nylock nuts have a safety feature that if the bolt does vibrate loose, the nut will remain on the screw. Install nylock nuts to the standard torque shown above.

Hydraulic Torque Specifications

Face Seal: Assembly, Tube to Fitting



Note - Face seal fittings have the most reliable sealing method and therefore, should be used whenever possible.

Installation

1. Make sure threads and sealing surfaces are free of burrs, nicks, scratches, or any foreign materials.
2. Install proper SAE o-ring to end of fitting if not already installed. Ensure o-ring is fully seated and retained properly.
3. Lubricate o-ring with a light coating of clean hydraulic oil.
4. Position tube and nut squarely on face seal of fitting and tighten nut finger tight.
5. Using appropriate torquing device, tighten to given torque rating from the table below.

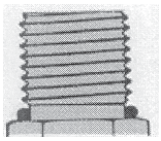
Torque Values:

SAE Dash Size	Tube Side Thread Size	In-lbs	Ft-lbs
-4	9/16 - 18	220 ± 10	18 ± 1
-6	11/16 - 16	320 ± 25	27 ± 2
-8	13/16 - 16	480 ± 25	40 ± 2
-10	1- 14	750 ± 35	63 ± 3
-12	1 3/16 - 12	1080 ± 45	90 ± 4
-16	1 7/16 - 12	1440 ± 90	120 ± 8
-20	1 11/6 - 12	1680 ± 90	140 ± 8
-24	2 - 12	1980 ± 100	165 ± 8

NOTE - ft-lb may be converted to NewMeters by multiplying by 1.35582.
NOTE - in-lbs may be converted to Newton Meters by multiplying by 0.11298.

Hydraulic Torque Specifications

Straight Thread O-ring Fitting: Assembly, Fitting to Port



NOTE - Straight thread o-ring fittings are utilized to adapt hydraulic systems to motors, pumps, cylinders, and valves.

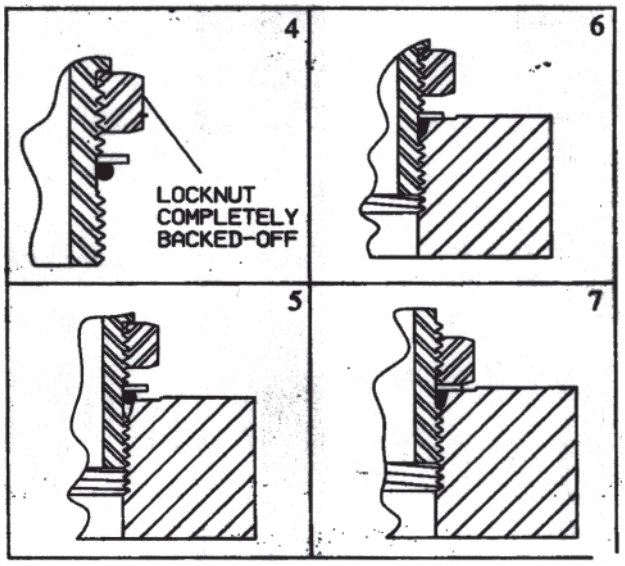
Installation (Adjustable Fitting)

1. Make sure threads and sealing surfaces are free of burrs, nicks, scratches, or any foreign materials.
2. Install proper SAE o-ring on port end of fitting if not already installed. Ensure o-ring is fully seated and retained properly.
3. Lubricate o-ring with a light coating of clean hydraulic oil.
4. Back off nut as far as possible and push washer up as far as possible. (Figure 4 & 5)
5. Screw fitting into port. Hand tighten fitting until backup washer contacts face of port. (Figure 6)
6. To position the fitting, unscrew to desired position, but not more than one full turn.
7. Hold fitting in position with wrench. Using appropriate torquing device, tighten nut to given torque rating from the table in section. (Figure 7)

Torque Values

Fitting Size	SAE Port Thread Size	In-Lbs	Ft-Lbs
-4	7/16 - 20	190 ± 10	16 ± 1
-6	9/16 - 18	420 ± 15	35 ± 1
-8	3/4 - 14	720 ± 25	60 ± 2
-10	7/8 - 14	1260 ± 50	105 ± 5
-12	1 1/16 - 12	1680 ± 75	140 ± 6
-16	1 5/16 - 12	2520 ± 100	210 ± 8
-20	1 5/8 - 12	3100 ± 150	260 ± 12
-24	1 7/8 - 12	3800 ± 150	315 ± 12

Figures 4, 5, 6 and 7



NOTE - ft-lb may be converted to NewMeters by multiplying by 1.35582.
NOTE - in-lbs may be converted to Newton Meters by multiplying by 0.11298.

angle or angle assembly - portion of the sweeper that allows the brush head assembly to angle.

BP - black pipe.

brush head assembly - assembly that includes the core, hood, and brush frame.

brush pattern - area of dirt removed from sweeping surface; with a properly adjusted sweeper; the pattern is the same width for the entire length.

castellated - having battlements like a castle.

caution - indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CTH - commercial turf hydraulic

core - weldment that holds brush sections.

danger - indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

F - female.

FS - face seal.

front - side that is in front when facing the normal forward direction of travel of the machine.

gpm - gallons per minute.

HP - high pressure.

hood - brush shield.

hydraulic angle kit - means of swinging an assembly hydraulically.

important - used for instructions when machine damage may be involved.

in. - inches.

kph - kilometers per hour.

lb - pounds.

left-hand - side that is on the left when facing the normal forward direction of travel of the machine.

lift cylinder - means of raising the brush head assembly hydraulically.

lps - liters per second.

M - male.

mm - millimeters.

mph - miles per hour.

manual angle kit - means of swinging the brush head assembly mechanically.

mid pump unit - sweeper in which the pump is mounted on the mid PTO.

mounting assembly - portion of the sweeper that attaches to the prime mover; designed specifically for each prime mover.

MRH - mid-range hydraulic

MRHL - mid-range hydraulic loader

NPT - national pipe thread.

note - indicates supplementary information.

OR - o-ring.

psi - pounds per square inch.

PTO - power take off; shaft on the prime mover used to drive attachments.

plate swing - swing assembly that includes a half-moon plate.

power pack - auxiliary hydraulic package used when prime mover hydraulics do not have enough flow available.

prime mover - refers to the tractor, truck, loader or other vehicle to which a sweeper is attached.

qty - quantity.

quick change core - core designed in a way that allows brush sections to be changed without removing hoses from motors.

rpm - revolutions per minute.

rear - side that is in rear when facing the normal forward direction of travel of the machine.

rear pump unit - sweeper in which the pump is mounted on a rear PTO.

retainer - removable plate or set of plates that keeps sections on the core.

right-handed - side that is on the right when facing the normal forward direction of travel of the machine.

section - single brush wafer.

section set - replacement brush wafers.

sprinkler system - system that sprays water ahead of the sweeper used to reduce dust.

sprinkler tank - assembly that includes the water reservoir and mounting used in a sprinkler system.

stands - devices designed to keep the components off the ground when the sweeper is dismounted.

swing or swing assembly - portion of the sweeper that allows the brush head assembly to angle.

swing cylinder - means of angling the brush head assembly hydraulically.

tank assembly, hydraulic - assembly that includes the hydraulic reservoir, filter and fittings; may also incorporate valves.

warning - indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

weld - weldment.

windrow - pile of debris.

zerk - grease fitting.

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 LLC Limited 12 Month Warranty

Thank you for purchasing a Sweepster, LLC. product. Warranty protection is valid only when this Warranty Registration is completed and signed by the customer and dealer, and mailed to Sweepster LLC. I hearby acknowledge that I have received a copy of the owners Limited Warranty and I accept the terms therein.

For a period of 12 months from the date of delivery of product to the original user, Sweepster, LLC. 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 specification; improper or insufficient lubrication; improper storage. This warranty is also not a guarantee that performance of each product will meet the expectations of the purchaser.

Sweepster, LLC. 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 or repair of defective parts; lost time or expense which may have accrued because of said defects. In no event shall Sweepster, LLC.'s total liability hereunder exceed the product purchase price.

Sweepster, LLC. makes no warranty with respect to trade accessories or any component or accessory of the product which was not manufactured by Sweepster, LLC. 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, LLC. 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, LLC or at a service facility designated by us, or such part or parts as inspection shall disclose 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 or implied warranty, nor is anyone authorized to make any on our behalf. This warranty cannot be extended, broadened, or changed except in writing by an authorized officer of Sweepster, LLC.