



**MODEL  
HB-60  
SKID STEER LOADER  
PICK-UP SWEEPER**

**Operator's Manual  
& Parts List**

**Read This Manual Before Attempting  
To Operate The Equipment**



**CAUTION:  
MAXIMUM OIL  
FLOW 10 GPM.**

2800 N. Zeeb Road, Dexter, MI 48130  
1-800-627-9378 (313) 996-9116  
FAX (313) 996-9014



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# General Information

Read and understand this manual before operating the sweeper.

Read and understand this manual to get the best use and longest life from this sweeper.

Each section in this operator's manual is clearly identified so it is easier to find the information needed; safety, set-up, adjustment, operation, maintenance, etc., or, refer to the **TABLE OF CONTENTS** to find these sections.

Give special attention to the safety section of this manual. Carefully read and follow all safety information.

 This is the safety alert symbol. It is used throughout this manual and on the unit itself to identify important safety messages. When you see this symbol, **BECOME ALERT! YOUR SAFETY IS INVOLVED!**

"RIGHT" and "LEFT" are determined by standing behind the sweeper and facing forward in the normal sweeping direction.

When ordering service parts the following information must be given:

- Sweeper Model Number
- Sweeper Serial Number
- Date of Purchase
- Part Number
- Part Description
- Quantity of Parts

This information is very important in order to obtain the correct parts.

Fill in the spaces below for future reference:

Sweeper Model Number

Sweeper Serial Number

Date of Purchase

This is what the serial number plate looks like.



The serial number plate is located on the top left hand side of the body frame.

Please fill out the postage-paid warranty card (enclosed with this manual) and return it to SWEEPSTER to fully validate your warranty. This will allow us to contact you if safety or service information becomes available for your unit.

# Safety Precautions

## Preparation

ALL OPERATORS must understand sweeper operator's manual before operating sweeper.

ALL OPERATORS must understand tractor/loader operator's manual before operating sweeper.

Learn tractor/loader controls before operating sweeper.

Allow only mature, responsible persons to operate sweeper.

Be sure all people are clear of sweeper discharge area.

Remove all property (cars, etc.) from sweeping area that could be damaged by flying debris from sweeper.

Adjust sweeper per this manual in a safe area away from traffic or other hazards before sweeping.

Check all hydraulic fittings and hardware for tightness before using sweeper.

## Operation

Follow all safety precautions outlined in this manual.

Understand sweeper & tractor/loader operator's manual first before operating sweeper. Failure to do so may result in death, personal injury, or property damage.

Follow all government rules and guidelines for use of a sweeper/tractor/loader for your job.

Wear safety glasses, goggles, or a face shield if tractor/loader does not have an enclosed cab.

First-time operators should sweep in an open area to learn how the sweeper/tractor/loader works.

Lower sweeper, stop engine, and set brakes before leaving operators area for any reason.

Lower sweeper, stop engine, and set brakes before anyone adjusts sweeper.

To minimize flying debris, use slowest brush speed that will do the job.

Only adjust sweeper in safe areas away from road traffic, etc.

Never raise brush more than a few feet off the ground when traveling from job site to job site--sweeper may tip back or tractor/loader/sweeper may tip over causing death, serious injury, or property damage.

Reduce speed to avoid "bouncing" sweeper over rough terrain--personal injury can result from loss of steering control or damage to sweeper or tractor/loader may result.

## Service

Lower sweeper, stop engine, and set brakes before servicing or adjusting sweeper.

Never work on sweeper with loader lift in raised position; use cylinder-stop locks (see tractor/loader manual) or fully lower the loader lift arms before working on sweeper.

Keep brush material away from intense heat or flames.

Do not modify or alter sweeper in any way.

Stop engine and cycle control levers to release hydraulic pressure before servicing or adjusting sweeper hydraulics. Escaping hydraulic oil can have enough pressure to penetrate the skin, causing serious personal injury.

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

# Installation

**NOTE:** Bucket must conform to dimensions per figure 1. If not, contact SWEEP-STER sales at 800-627-9378 to purchase bucket by parts list.

1. Install side and rear brackets to bucket per figure 1 if bucket was not supplied with sweeper.
2. Pin sweeper side arms to rear mounting brackets with 1 inch diameter pins provided.

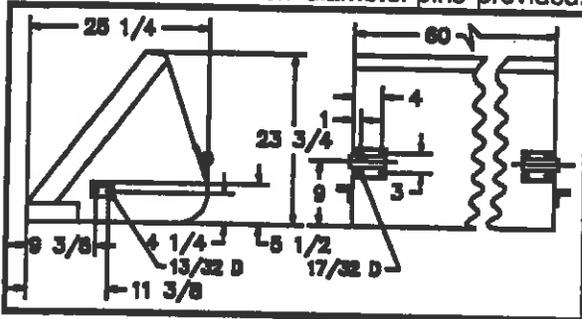
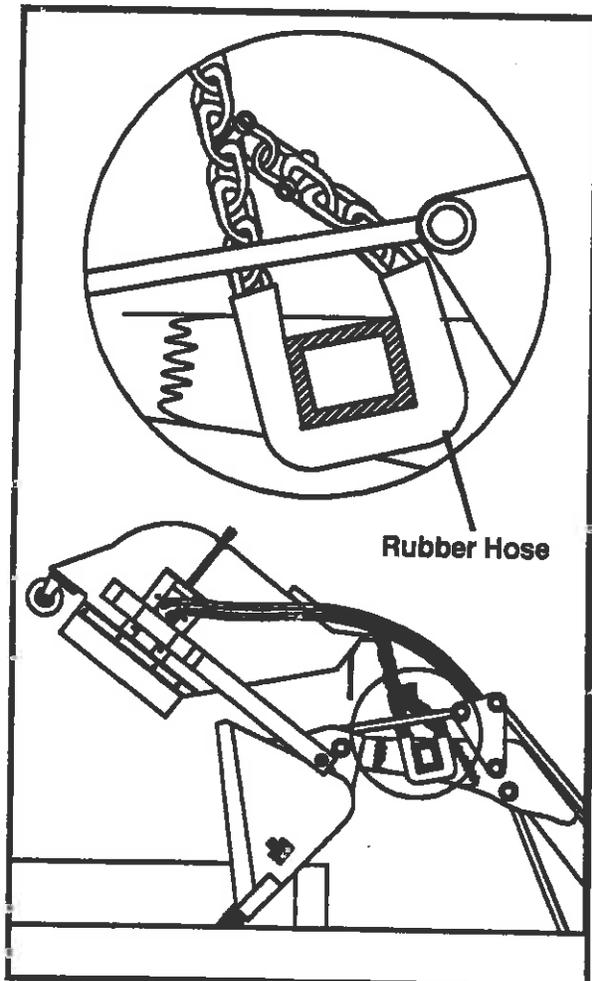


Figure 1

3. Attach chains to a convenient location on loader lift arm with equal slack on both. (See figure 2)

Figure 2



**NOTE:** Use (2) clevis and (2) rubber hoses to attach chain to loader. (See figure 2)

4. Hook up hydraulic hoses to remote valve on loader. Remote valve to be furnished by the customer; may be acquired from the loader manufacturer.

**CAUTION:** MAXIMUM OIL FLOW NOT TO EXCEED 10 GPM.



5. Fully adjust per adjustment section.

## Gutter Brush

1. Slide gutter brush weldment into sleeve (item 8) on the main body as shown in parts breakdown on page 13. Secure with cotter pin.
2. Attach gutter brush motor mount to gutter brush arm with 2 bolts. Place tension chain into chain holder. See page 5 for proper adjustment.
3. Attach hoses to gutter brush fittings.
4. Attach gutter brush to gutter brush plate using 4 bolts and nuts.

# Operation

**CAUTION:** MAXIMUM OIL FLOW IS 10 GPM TO ELIMINATE OIL HEATING PROBLEMS OR DAMAGE TO HYDRAULIC COMPONENTS. (REFER TO HYDRAULIC FLOW CONTROL OPTION, PAGE 10) (SEE LOADER OPERATING OR SERVICE MANUAL FOR OIL FLOW SPECIFICATION).



1. For best results use low engine speed to prevent over speeding of sweeper and excessive dust.
2. Do not engage brush with high engine speed as this may cause damage to sweeper.
3. Shifting broom rotation from forward to reverse while the broom is rotating may cause damage to sweeper.
4. Operate sweeper on flat, level surface. Sweep forward with broom sweeping forward. To sweep in reverse, reverse broom rotation.

**NOTE:** Gutter brush can only be used when going in forward direction.

5. To sweep in rear direction, bucket should be tilted down with bucket cutting edge touching sweeping surface. Loader needs to be in a float position. (See figure 3)

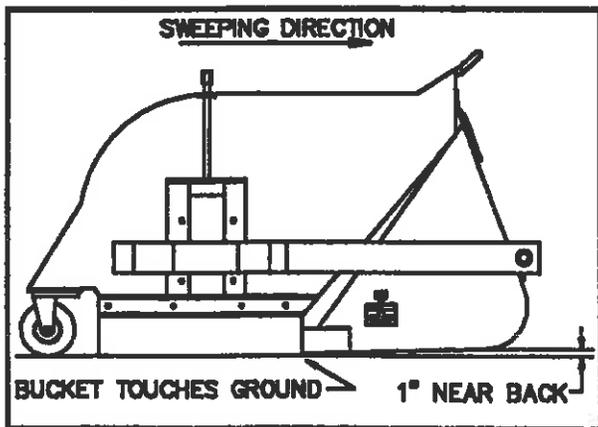


Figure 3

6. Dump hopper bucket by raising sweeper above container and dump the bucket.

**DANGER:** BE AWARE OF OVERHEAD ELECTRICAL WIRES.



7. Follow all safety precautions outlined in this manual.

## Gutter Brush

1. If the operator has never operated an HB-60 with gutter brush option, practice before actually sweeping. Practice turning around some imaginary objects while noting time it takes to maneuver sweeper.
2. When sweeping next to curbs or walls of buildings with gutter brush, keep gutter brush close to vertical surface, but not so close that the entire length of the bristles are bent against vertical surface.
3. The gutter brush is hooked into the main brush system to rotate at same time as main brush rotates. When not using gutter brush, raise it up by adjusting tension chain. If the gutter brush is not used for an extended period of time, unhook hydraulic hoses from gutter brush motor. Hook hydraulic hose up the same as if the main brush motor is to be used only.

**CAUTION:** TO PREVENT CONTAMINATES FROM DAMAGING HYDRAULIC SYSTEM WHEN NOT IN USE, CAP HOSE ENDS AND COUPLERS.



# Adjustment

**NOTE:** Bucket should be 1 inch above ground level front to rear. The caster wheel of the sweeper should be set on the ground.

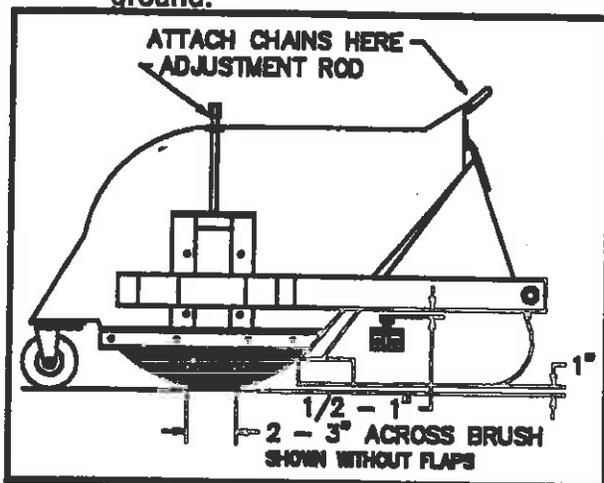


Figure 4

**NOTE:** Adjust sweeper on flat level surface.

1. With front caster on ground, position bucket approximately 1 inch and level above ground. (See figure 4)
2. Shut machine down and stop engine. Adjust side bracket bolts so head of bolt has 1/2" to 1" clearance to sweeper side arm (See figure 4).
3. Adjust brush pattern with adjustment rods on the side of sweeper. The brush pattern should be 2 - 3 inches front to rear across the width of sweeper.

**NOTE:** Check adjustments before each use.

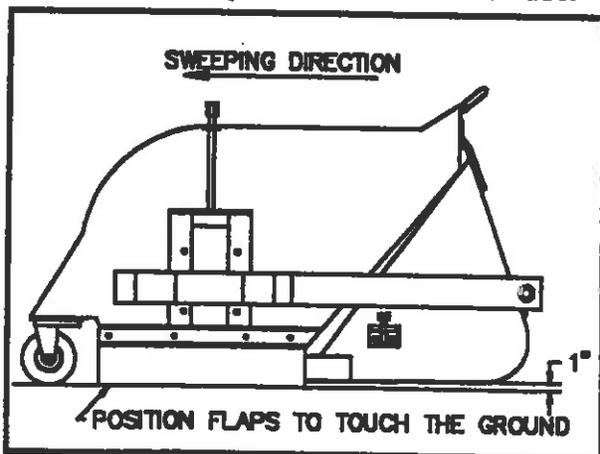


Figure 5

4. Adjust front and side flap up or down as necessary to contact sweeping surface. (See figure 5)

## Gutter Brush

When the gutter brush is properly adjusted, contact area should approximate the area of a clock face between 12 o'clock and 3 o'clock. (See figure 6)

1. Lower gutter brush onto surface to be swept.
2. Loosen 2 bolts holding gutter brush motor mount to gutter brush arm.
3. Turn motor mount right or left and adjust tension chain at this time to get the required contact area. Retighten bolts.
4. To adjust swing out of gutter brush, loosen hex nut (item 14, page 13) and adjust bolt (item 15, page 13) in or out. Retighten nut.

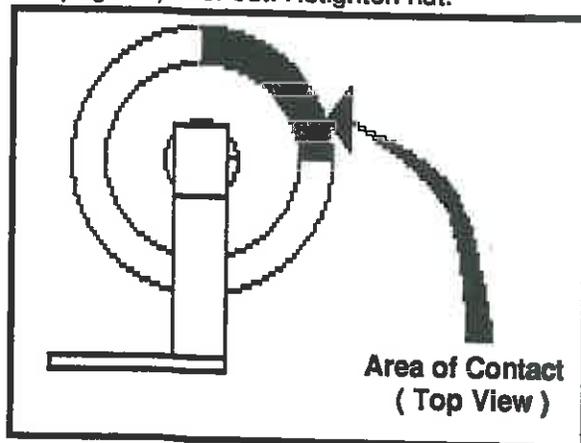


Figure 6

# Removal, Storage & Reinstallation

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## Removing Bucket and Sweeper Assembly

**NOTE: Shut machine down and stop engine.**

1. Disconnect hydraulic lines and cap off.
2. Set bucket on 2 inch blocks (2 x 4 pieces of wood) to prevent brush from contacting ground during storage.
3. Remove support chains from loader arms.
4. Remove quick attach or universal mount per loader manufacturer's instructions.

## Removal of Sweeper Only

**NOTE: Shut machine down and stop engine.**

1. Place sweeper on blocks to keep bristle from contacting ground.
2. Disconnect hydraulic lines and cap off.
3. Remove support chains from loader.
4. Remove 1 inch diameter pins from the rear bucket mounting.
5. Move loader away from sweeper and remove the bolt on bracket from the rear and side of the bucket.
6. Reinstallation per steps on pages 3, 5.

# Maintenance

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## Brush Replacement

1. Lower sweeper to ground in sweeping position and shut off loader.
2. Disconnect hydraulic line to motor and cap off to prevent contamination.
3. Remove flaps from both sides.
4. Turn hexhead adjustment rods all the way out and remove.
5. Raise body of sweeper up and away from the brush assembly on the ground.
6. Remove the two end plate halves on bearing end of brush.
7. Remove old sections.
8. Replace sections per instructions furnished with new sections.
9. Reassemble per steps 7-1 and readjust the brush pattern. (See adjustment of bucket sweeper.)

## Gutter Brush

1. See page 3, Installation of Gutter Brush.

## Lubrication

1. Grease front caster wheel & swivel before each daily use.
2. Wash & clean sweeper thoroughly after each daily use.

# Safety Decals

## Safety Label & Decal Instructions

Replace worn or damaged safety labels before sweeper is operated.

Keep all safety labels on machine clean so they are easy to read.

If parts are repaired and safety labels are damaged, they must be replaced before sweeper is operated.

Order replacement safety labels from page 15 of this manual. (Replacement safety labels will be supplied at no charge.)

See page 8, 9 and 17 for location and contents of safety labels on sweeper.

## Install New Safety Decals

1. Clean surface until dry and free of oil, dirt etc.
2. Peel part of the backing from new safety decal.
3. Attach one edge of decal and smooth into place, then peel the rest of backing and carefully apply.

**NOTE: Be careful not to stretch the decal—avoid wrinkles and bubbles.**

4. Rub lightly to remove air bubbles and wrinkles.
5. Be sure all corners and edges are firmly affixed to machine.
6. Be sure all writing and pictures, etc. on decals can be easily read.

If you have questions concerning safety decals, in Michigan call (313) 996-9116, Toll Free 800-627-9378, or write to **SWEEPSTER Inc.**, 2800 N. Zeeb Road, Dexter, Mi 48130



## DANGER

Falling sweeper or loader arms can cause severe injury or death. Fully lower loader arms, set brake, stop engine before leaving seat or servicing.

50-0013-1



## WARNING

Riding on sweeper can cause severe injury or death.

50-0008-1

# Safety Decals

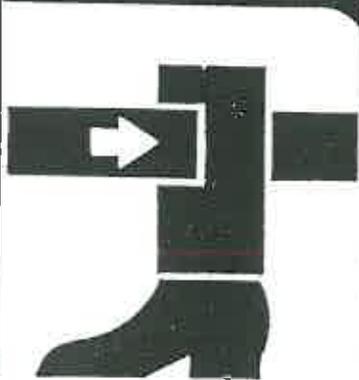
## **WARNING**

Running sweeper or engines can cause severe injury or death to dismounted operator or others. Keep others away from sweeper, lower and stop sweeper, stop engines, set brake before leaving seat or servicing.

50-0014-2

**Adjust Aprons and  
Brush Speed for  
Various Materials.**  
Adjust Per Manual.

50-0023-1



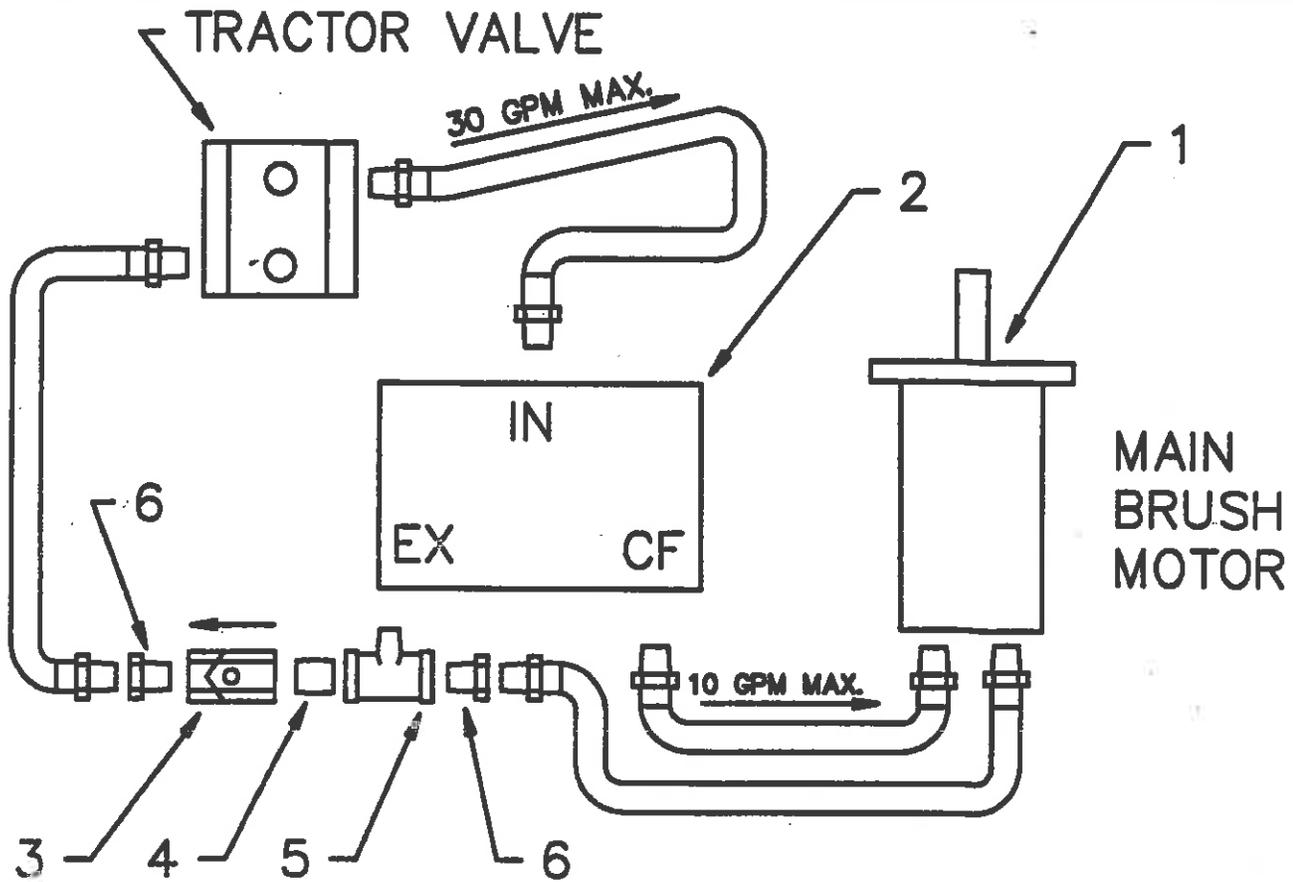
## **CAUTION PINCH POINT**

TO HELP AVOID INJURY  
FROM FRAME PIVOT  
AND STOPS:

- Keep hands, feet and clothing away.

50-0076-1

# Flow Control



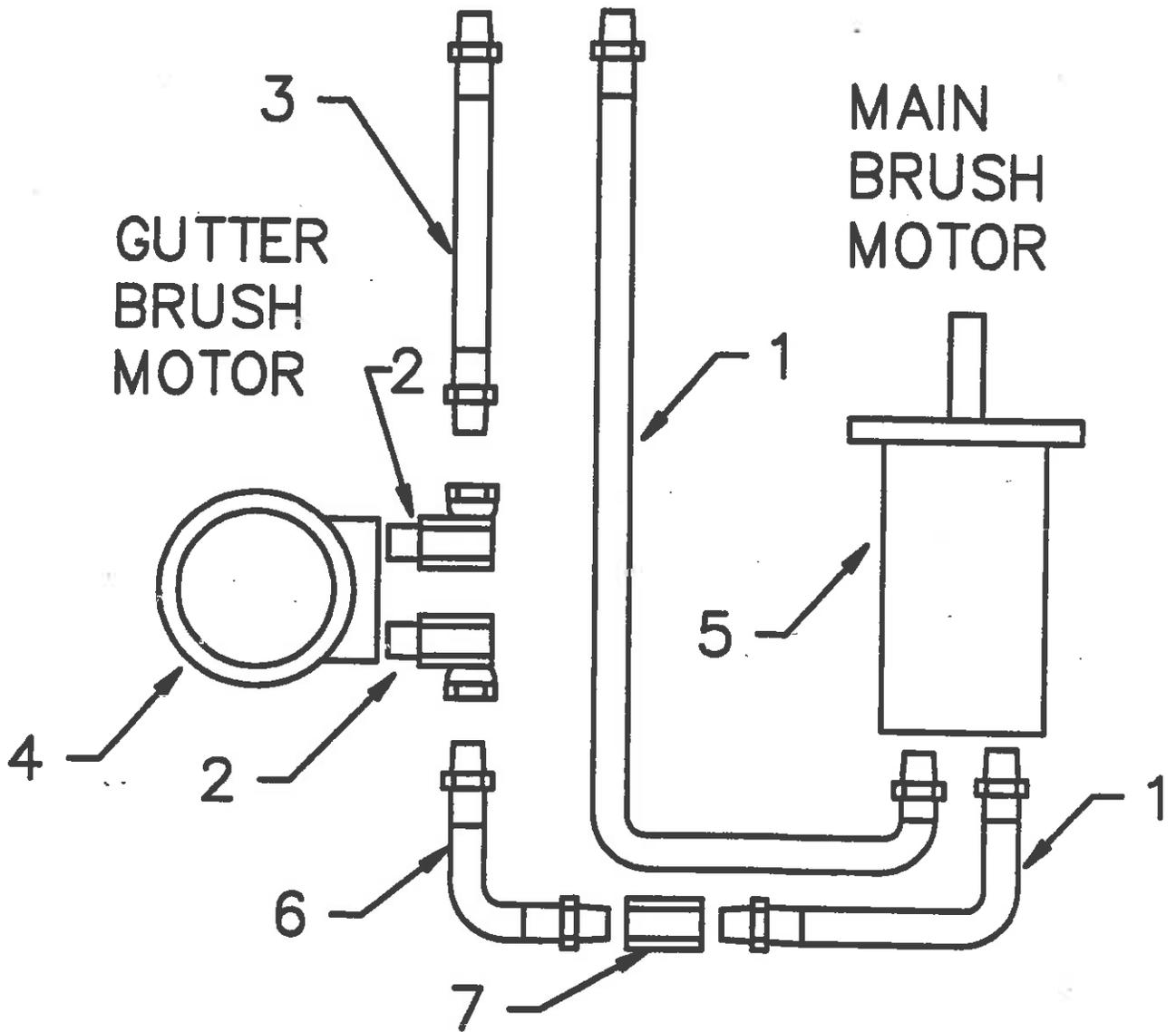
CAUTION: MAXIMUM INPUT NO MORE THAN 30 GPM.



13-2471 Kit, Flow Control Option (Includes the following parts)			
*1.	03-1773	Motor, Hydraulic	1
2.	03-1869	Valve, Flow Div	1
3.	03-1314	Valve, Check	1
4.	03-1022-10	Nipple, 3/4"	1
5.	03-0992	Ftg, Tee	1
6.	03-1068-9	Ftg, Reducer	2
(*) Comes with HB-60			

NOTE: Gutter Broom meant to be used in forward direction only.

# Gutter Brush Hydraulics



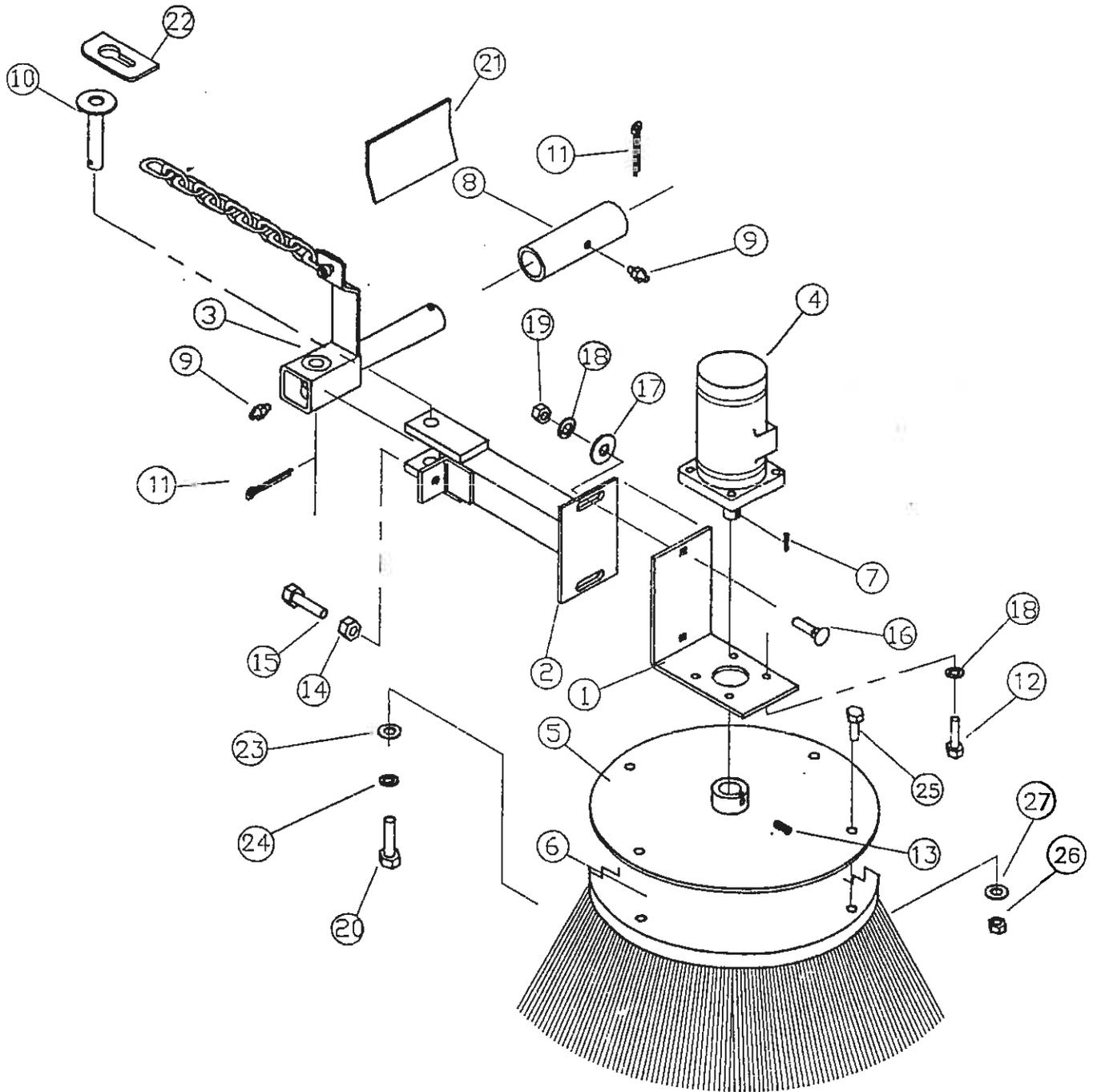
*1.	03-1795	Hose, Hydraulic	2
2.	03-0197	Ftg, Elbow	2
3.	03-0426	Hose, 1/2" x 120"	1
4.	03-1353	Motor, Gutter Brush, Hydraulic	1
*5.	03-1773	Motor, Main Hydraulic	1
6.	03-0143	Hose, 1/2" x 37"	1
7.	03-1048	Coupling, 1/2" HP	1
(*) Comes with HB-60			

# Gutter Brush

1.	13-2265	Motor Mount	1
2.	13-2264	Arm, Gutter Brush	1
3.	13-2263	Pin, Gutter Brush	1
4.	03-1353	Motor, Hydraulic	1
5.	13-0374	Plate, Gutter Brush	1
6.	01-0523	Gutter Brush, One Piece	1
7.	11-6526	Key	1
*8.	13-2268	Sleeve	1
9.	07-0223	Fitting, Grease	2
10.	11-3163	Pin, 3/4" x 3 1/2"	1
11.	07-0206	Pin, Cotter 3/16" x 2"	2
12.	07-0024	Screw, Hex 3/8" x 1"	4
13.	07-1504	Set Screw	1
14.	07-0184	Nut, Hex 1/2"	1
15.	07-0046	Screw, Hex 1/2" x 2 1/2"	1
16.	07-0113	Bolt, Carriage 3/8" x 1"	2
17.	07-0154	Washer, 3/8" Flat	2
18.	07-1718	Washer, 3/8" Lock	6
19.	07-0183	Nut, Hex, 3/8"	2
20.	07-0008	Screw, Hex 1/4" x "1 (Motor)	1
*21.	13-2335	Plate, Support	1
*22.	13-2334	Plate, Chain	1
23.	07-0152	Washer, Flat 1/4"	1
24.	07-0166	Washer, Lock 1/4"	1
25.	07-1821	Screw, Hex 5/16" x 2"	4
26.	07-1458	Nut, Lock 5/16"	4
27.	07-0153	Washer, Flat 5/16"	4

(\* ) May require retro fit if not factory installed. Would require some welding.

# Gutter Brush



# HB-60 Parts List

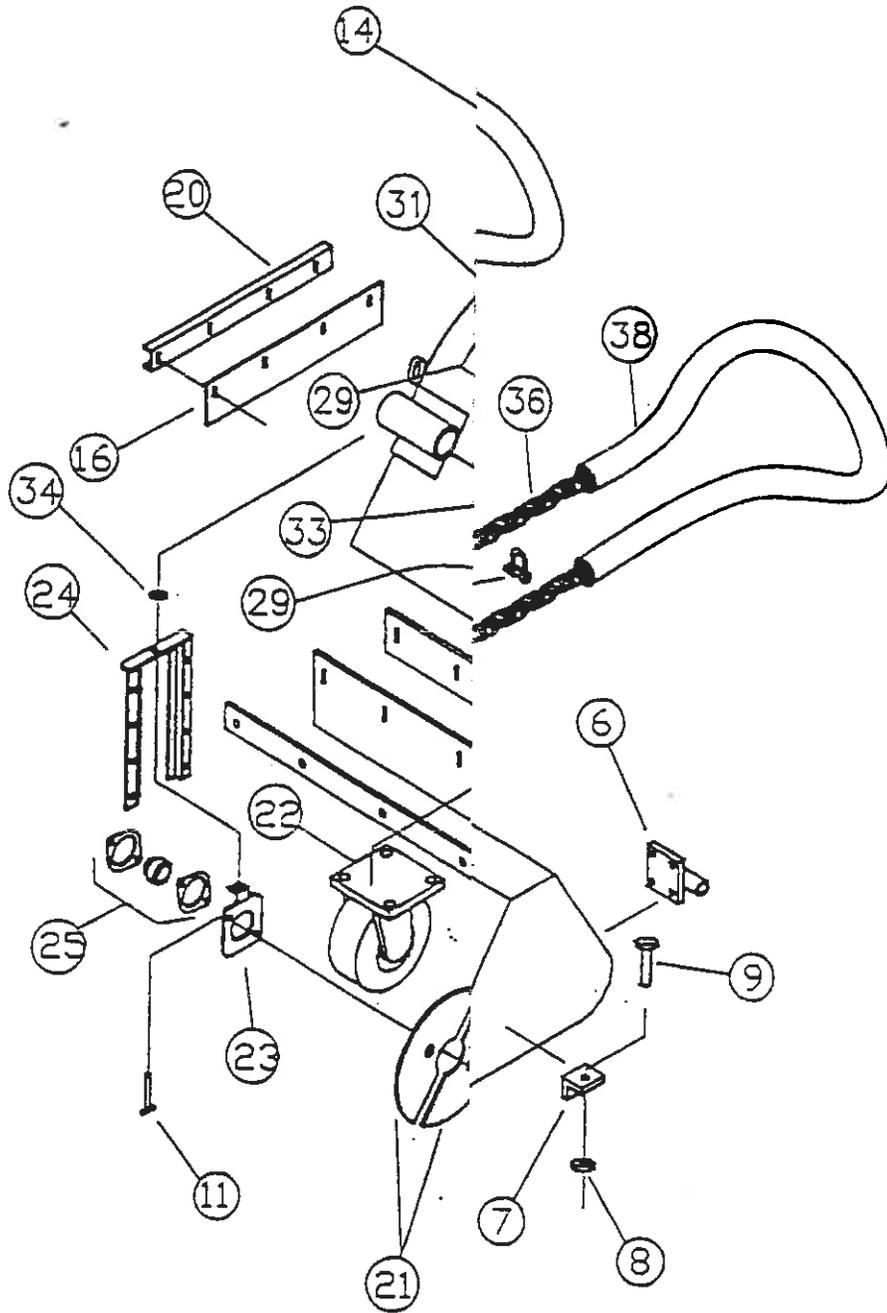
1.	13-1504	Frame, Body	1
2.	13-1542	Step	1
3.	09-0105	Flap, Rear	1
4.	13-1539	Strap	3
5.	09-0106	Flap, Inside	1
6.	13-1507	Bucket Mount	2
7.	13-1517	Angle, Stop Bracket	2
8.	07-0185	Nut, Hex 5/8"	2
9.	07-0069	Bolt, Tap 5/8"	2
10.	13-1506	Motor Guide	1
11.	11-1955-1	Rod, Adjust, 8"	2
12.	03-1773	Motor	1
13.	13-1505	Motor Mount	1
14.	11-0460	Adjustment Rod	2
15.	13-1541	Channel, Left	1
16.	09-0103	Flap, Side	2
17.	13-1537	Pin, 8 1/2"	2
18.	09-0104	Flap, Front	1
19.	01-0610	Core, Brush	1
20.	13-1540	Channel, Right	1
21.	11-1804	Set, Section Retainer Plates	1
22.	07-0582	Caster	1
23.	11-1953	Bearing Plate	1
24.	13-1518	Bearing Guide	1
25.	08-0007	Bearing	1
26.	**.*	Nut, Motor	1
27.	07-1930	Bucket (Requires 1 Quick Attach, See List Below)	1
28.	50-0076-1	Caution, Pinch Point	4
29.	50-0014-2	Warning, General	2
30.	50-0023-1	Adjust Apron	2
31.	50-0008-1	Warning, No Riders	2
32.	50-0052	Medium Sweepster, Black	2
33.	50-0002	Large Sweepster, Black	1
34.	07-0183	Nut, Hex 3/8"	2
35.	09-0114	Flap, Reinforcement	1
36.	11-7059	Chain, 1/4" x 54 Links	2
37.	07-2046	Clevis, Chain Attachment	4
38.	09-0019	Hose, 1" x 24"	2
39.	50-0013-1	Danger, Falling Loader Arms (*.*.**) Order by Description	1

# HB-60 Parts List

QUICK ATTACH BRACKETS ( QA ) Not Shown ( NS. )			
NS.	07-2013	QA Prime Mover L1300	
NS.	07-2103	QA W14 Case	
NS.	07-1937	QA Gehl 4610/3610	
NS.	07-1936	QA Ford NH 555, 785/JD 675,875	
NS.	07-1932	QA Toyota SDK 8	
NS.	07-1938	QA Case 1845C ("C" Coupler) Trak 1300/Bobcat 500-800	
NS.	07-1933	QA Ford CL45/Koehring 1350/Thomas 133	
NS.	07-1935	QA Ford CL55/Koehring 2150/Thomas 233	
NS.	07-1934	QA Gehl 6620/6625/5610	
NS.	07-1931	QA Mustang 342, 442, 552, 940, 960	
NS.	07-0787	Screw Clamp	
NS.	07-1721	Hose Clamp, Rubber	1
NS.	03-1795	Hose, Hyd 1/2" x 96" With Steel Shielding	1
NS.	07-0244	Pin Quick Klick (For Item 17)	2
NS.	01-0650C	Brush Set, Poly	2
NS.	01-0651C	Brush Set, 1/2 Poly - 1/2 Wire	1
NS.	07-1994	Bucket, 60", Mustang 940/442, 960/552, 342	1
NS.	07-1995	Bucket, 60", Toyota 2SDK8	
NS.	07-1996	Bucket, 60", F/CL45, TH 133, KOE 1050/1350	
NS.	07-1997	Bucket, 60", Gehl 6620	
NS.	07-1998	Bucket, 60", F/CL55 KOE 2150/Thomas 233	
NS.	07-1999	Bucket, 60", FNH555/780, JD 675/875	
NS.	07-2000	Bucket, 60", Gehl 4610	
NS.	07-2001	Bucket, 60", KOE 1300 HD, BOB 7-800, 2000	
NS.	07-2084	Bucket, 60", Case 1845C	
NS.	07-2085	Bucket, 60", Case 1845B	
NS.	07-2002	Bucket, 60", Case 1830, 1835, 1835B, 1835C	
NS.	07-2004	Bucket, 60", Gehl 4610/6620 QA	
NS.	07-2014	Bucket, 60", Erikson 358	
NS.	07-2034	Bucket, 60", John Deere 245	
NS.	07-2042	Bucket, 60", Swinger 200	
NS.	07-2102	Bucket, 60", Farm Hand 570	



# K-UP SWEEPER



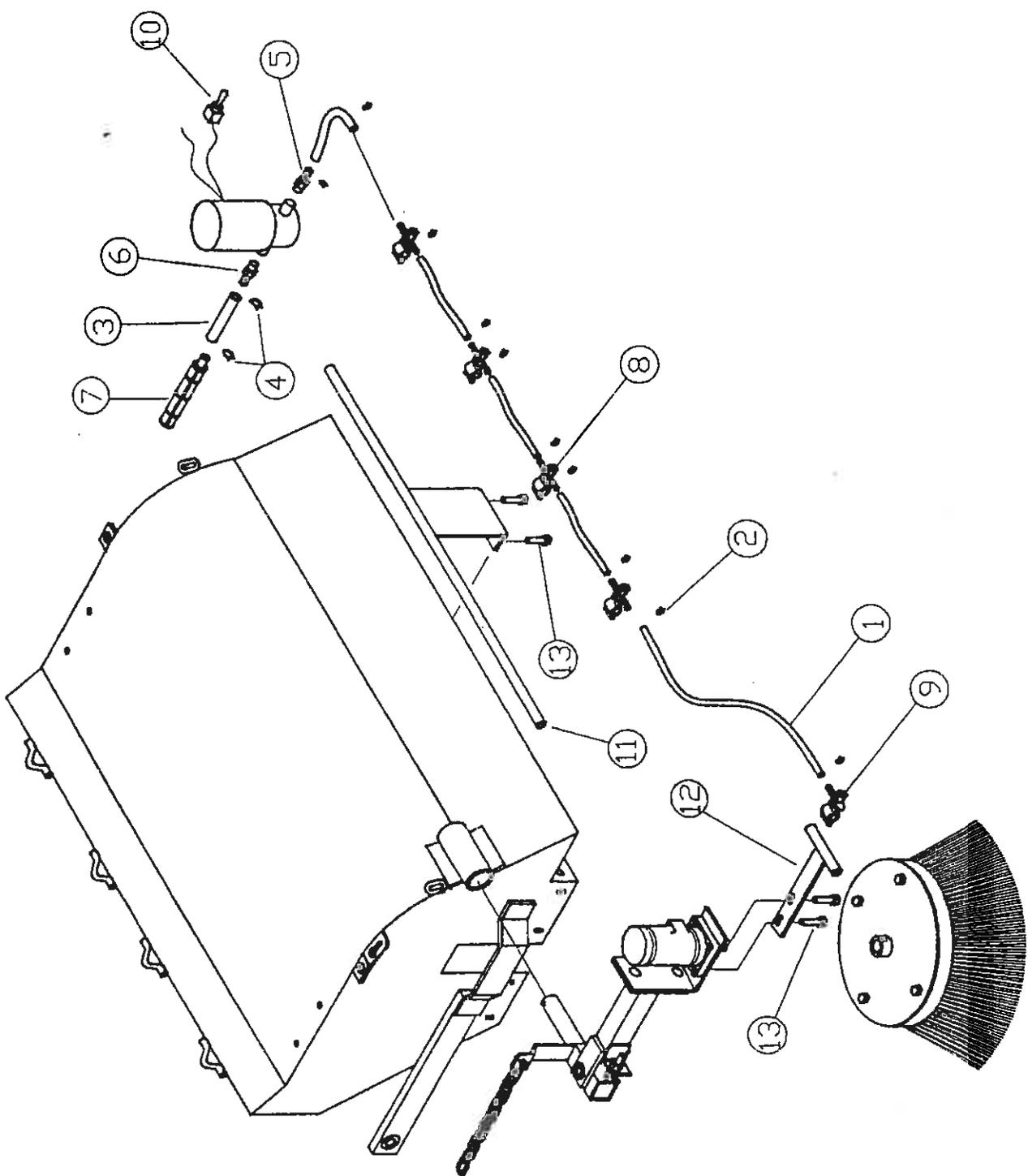
# Spraybar Sprinkler System (11-4220)

1.	09-0026	Hose, 3/8" x 25 Feet *	1
2.	07-0549	Clamp, Spring	10
3.	09-0044	Hose, 5/8" x 7 Feet	1
4.	07-0547	Clamp, Spring	2
5.	03-0457	Fitting, Barb 3/8"-3/8" MP	1
6.	03-1709	Fitting, Barb 5/8"-3/8" MP	1
7.	07-0313	Filter, Screen	1
8.	07-0411	Tee, Barb, Plastic	4
9.	07-0412	Elbow, Barb, Plastic	1
	07-0413	Nut, Plastic, 1/2"	5
	07-0414	Nozzle, Spray	5
	03-1326	Pump, Water	1
10.	07-0343	Switch, 2 Position	1
11.	13-2493	Spray Bar, HB60 (Body Mounted)	1
12.	13-2490	Spray Bar, HB60 (Gutter Brush Mount)	1
13.	07-0025	Bolt, Hex, 3/8" x 1 1/4"	4

(\* ) Short pieces of hose to go between fittings are included in this length.

**NOTE: Water supply to be provided by customer.**

# Spraybar



# Flow Divider

1.	03-1869	Flow, Divider	1
2.	03-0130	Fitting, Swivel, 1/2"	2
3.	03-1022-7	Fitting, Nipple, HP, Hex, 1/2"	1
4.	03-1895	Valve	1
5.	03-0441	Hose, 1/2" x 18", 2W	1
6.	03-1069-9	Fitting, Reducer, 1/2" - 3/4"	1
7.	03-1314	Check Valve	1
8.	03-1022-10	Fitting, Nipple, HP, Hex, 3/4"	2
9.	03-1312	Fitting, Tee, HP, 3/4"	1
10.	03-1039	Fitting, Elbow, HP, 3/4", 90°	1

TO HYD. MOTOR

