# Single Disc Automatic Scrubber ScrubMaster 20B

# INTRODUCTION

# OPERATING & MAINTENANCE INSTRUCTIONS

### READ THIS BOOK

This operator's book has important information for the use and safe operation of this machine. Read and understand this manual before starting the machine. Keep this book and tell all operators to read the book. If you do not follow the instructions, you can cause an injury or damage equipment, furniture or buildings.

The contents of this manual are based on the latest product information available at the time of publication. Pacific Steamex reserves the right to make changes or improvements to its machines without notice.

For new books write to:

\*\*Pacific Steamex, Inc.\*\*
2259 S. Sheridan

\*\*Muskegon, MI 49442-6252

Carefully inspect all components to ensure that there is no concealed freight damage. If such damage is discovered, file a "CONCEALED DAMAGE REPORT" immediately with the delivering carrier.

FOR YOUR CONVENIENCE, RECORD THE MACHINE MODEL AND SERIAL NUMBER:

SERIAL	
NUMBER	

# TABLE OF CONTENTS

# IMPORTANT SAFETY INSTRUCTIONS

# READ AND UNDERSTAND ALL INSTRUCTIONS AND WARNINGS BEFORE OPERATING THIS MACHINE!



# WARNING: To reduce the risk of fire, electric shock or injury

- INSTRUCTION BOOK. If you do not understand any instruction, ask your supervisor You must have training in the operation of the machine before using it. READ THE
- Make sure all labels, decals, warnings, cautions and instructions are fastened to the machine
- ယ Read the labels carefully on the machine. Do not cover them for any reason and replace them if damaged.
- Do not operate this machine unless it is completely assembled, inspect the machine carefully before operation.
- S Pay close attention to other people and especially children while operating this machine
- 9 falling objects. Be a careful driver, do not strike shelving or scaffolding, especially where there is a danger of
- 7 use this machine with or near fuels, grain dust, solvents, thinners, or other flammable materials Machines can cause an explosion when operated near flammable materials and vapors. Do not
- In case of fire, use a powder extinguisher. Do not use water.
- 9. Do not use this machine as a means of transport.
- 10. Do not use acid solutions that could damage the machine.
- 11. Adjust your speed to the conditions of the floor.
- 12. Do not turn the machine on a ramp. Do not stop and leave the machine on a ramp or incline.
- When the machine is parked, take out the key and set the parking brake.
- 14. During any maintenance operation disconnect the power supply from the machine
- Lead acid batteries generate gases that can cause an explosion. Read the instruction manual supplied with the battery charger. Keep sparks and flames away from batteries. NO SMOK-ING. Charge the batteries only in an area with good ventilation
- 16. Do not use a charger if the power cord is damaged.
- . Always wear eye protection and protective clothing when working near batteries. Remove all jewelry. Do not put tools or other metal across the battery terminals, or the tops of the batter-
- Check the level of the electrolyte every time you charge the batteries. If the level is low, add distilled water only.
- Maintenance and repairs must be performed by authorized Service Centers only. Make adjustments according to the specifications given in the service manual for this machine
- 20. Keep the electrical parts of the machine dry. Do not wash the machine with direct water jets or high pressure, nor with corrosive material. For storage, keep the machine in a dry building
- Water solutions or cleaning materials used with this type of machine can leave wet areas on the Always put CAUTION signs near the area you are cleaning. These areas can cause a dangerous condition for the operator or other persons
- 22. Do not reach under shrouds with fingers, hands, or toes when machine is running

# SYMBOLS USED ON THE MACHINE



Symbol for the **water valve:**Indicates the solenoid valve switch.



Symbol indicating the raised or lowered position of the **brush base:** Indicates the lever for lifting the brush base.



Symbol for the **brush or pad**: Indicates the brush motor switch



Symbol for the **vacuum motor**: Indicates the vacuum motor switch



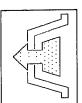
Symbol indicating the raised or lowered position of the **squeegee**: Indicates the squeegee lever position



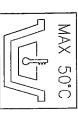
Symbol indicating the charge level of the **batteries**: It is necessary to recharge the batteries when the green light begins to blink.



Symbol for the **brake**: It is used on top of the emergency and parking brake lever.



Indicates the drain pipe of the recovery tank



Indication of the maximum recommended **temperature** for the solution detergent ( $50^{\circ}$ C or  $122^{\circ}$ F): It is located near the fill hole of the solution tank

# SYMBOLS USED ON THE MACHINE



Symbol indicating the adjustment lever for the handle bar height.



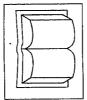
Symbol for the key switch.



Symbol indicating the push button for the **brush release**.



Symbol for the **coupling**: Indicates the anchor points and the load direction.



This symbol serves as a reminder for the operator to read the manual.

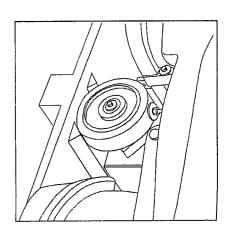


The WARNING symbol:

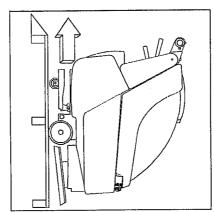
Carefully read the sections preceded by this symbol, this is for the safety of the operator and of the machine.

# UNPACKING THE MACHINE

- Use a fork truck to move the machine when packaged. Take off the outer package
- The machine is fixed on the pallet with wooden wedges that block the wheels.
- Take the wedges off.



ည Using a ramp, pull the machine down from the pallet, pushing it in reverse motion. Avoid violent blows to the base.

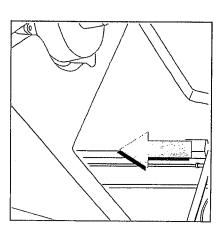


#### 'n BATTERY INSTALLATION

Recommended Batteries: Crown Battery Manufacturing Company Part #711
Trojan Battery Company Part #30XHS The two 12 volt 145 A/H batteries fit in the compartment under the recovery tank. East Penn Manufacturing Company Part #8KFS



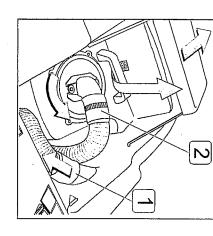
For battery maintenance and charging, follow the instructions provided.

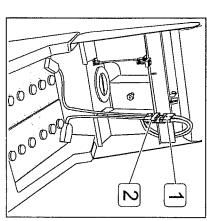


### Installation Instructions:

- Lift the recovery tank forward.
- Detach the squeegee hose (1) from the recovery tank.

  Take off the vacuum plug (2) by rotating it counterclockwise.
- ⇔ ⋈ →
- Take the recovery tank off.
- Place the batteries in their compartment.

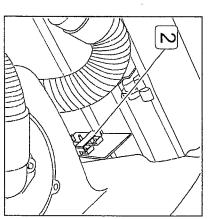




- .7.6 Connect the batteries' connector (2) to the machine's connector (1).
- Reassemble the recovery tank, suction plug and squeegee hose.

### ယ **CONNECTING THE BATTERY CHARGER**

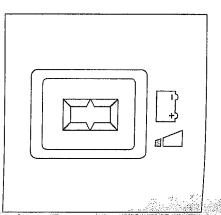
tank. The battery chargers' connector fits into the battery connector (2) located under the recovery



# 4. CHARGING THE BATTERIES

discharged, even if the machine is not being used NEVER ALLOW THE BATTERIES TO RUN COMPLETELY DOWN, recharge them within a few minutes after the battery indicator starts blinking. Never leave the batteries completely

Check the electrolyte level at least every 5 times the batteries are charged. distilled water if the level is low. Add only



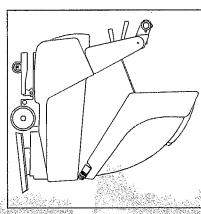


and maintenance operations. this manual and the battery charger. Trained staff must carry out the installation WARNING! When charging the batteries, follow all the instructions provided with

WARNING! Fire Danger: Lead acid batteries generate gases that can cause an explosion. Keep sparks and flames away from batteries. NO SMOKING!

**WARNING!** To prevent an explosion, charge the batteries only in an area with good ventilation.

WARNING! Always wear eye protection and protective clothing when working near batteries.

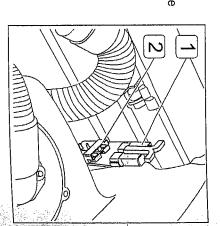


When charging the batteries, take the recovery tank off. If the machine is equipped with a hinge (optional), keep it lifted by supporting it with the prop as shown in the figure.

Turn the key to the OFF position. Connect the DC connector on the charger to the DC battery frequency for your charger. Make sure the receptacle is connected to the electrical ground Connect the AC charger plug to a receptacle that has the correct voltage and

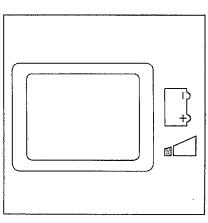
# 5. CONNECTING THE BATTERY CONNECTOR

After charging the batteries, reconnect the battery connector (2) to the connector of the machine (1).



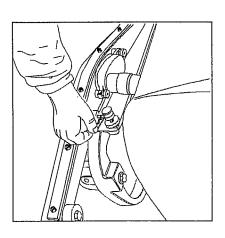
### 6. BATTERY INDICATOR

The battery indicator is a green signal light; it is constantly on when the batteries are sufficiently charged. The signal light will blink when it is necessary to recharge the batteries.



# 7. SQUEEGEE ASSEMBLY

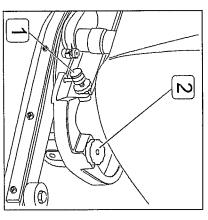
lifting cable. position. Insert the holding pin into the squeegee stud bolt to secure the squeegee in place. Then fit the squeegee hose into its coupling; the hose should be located to the right of the The squeegee is assembled as shown in the figure. The squeegee lever should be in its up



# 8. ADJUSTING THE SQUEEGEE HEIGHT

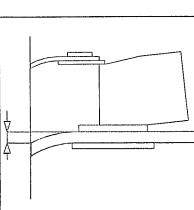
Rotate the knob (2) counter-clockwise to lift the squeegee and clockwise to lower it. The height from the floor to the squeegee should be adjusted based on the blade's wear.

Note: Adjust the right and left knobs the same amount; the squeegee should be positioned parallel to the floor



# . ADJUSTING THE SQUEEGEE INCLINATION

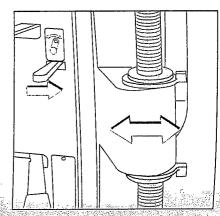
body backward by turning the adjuster (1) counter-clockwise. Subsequently, turn the adjuster along its whole length. To increase the blade bending in the central part, tilt the squeegee During operation, the rear squeegee blade is most efficient when tilted back about 3/16 inch clockwise to increase the bending at the sides of the squeegee blade.



#### 10. HANDLE BAR HEIGHT

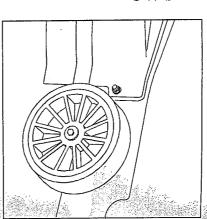
The handle bar is adjustable in three different positions:

- Release the lever.
- Put the handle bar at the desired height
- Release the lever and the handle bar will lock in place.



# SPLASH GUARD COVER

The cover is packed separately from the machine and has to be assembled as shown in the figure. Assemble the cover by inserting the holes into the proper pins of the arms, check that the adjusting screw rests onto the brush base. Then tighten the nuts with their washers onto



### **BRUSH ASSEMBLY**

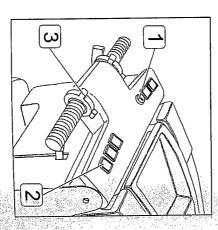
- the lever (3) on the handle bar. Lift the brush base, line the brush up with the plate under the brush base.

  Lower the brush base, turn the key (1) to the ON position, press the brush switch (2), push

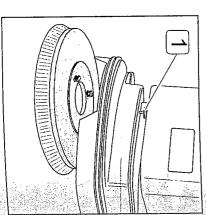
At this point the brush is locked in place



WARNING! No objects or people should be close to the brush during this operation.



က Using the knob (1), adjust the height of the splash guard so it does not touch the floor. This adjustment has to be repeated regularly as the brush wears.

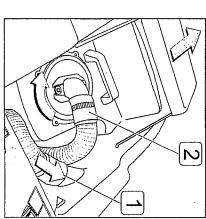


#### 끖 RECOVERY TANK

- and rotate the plug clockwise to close. Open the cover and confirm the vacuum plug (2) is properly closed: line up the notches and rotate the plug clockwise to close. The vacuum motor hose must also be attached.
- 3 12 Confirm the squeegee hose (1) is properly connected.

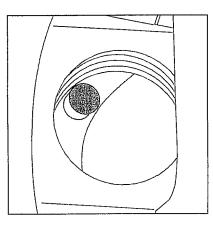
  Make sure the drain plug, which is located in the front of the machine is also closed.

The second secon



### SOLUTION TANK

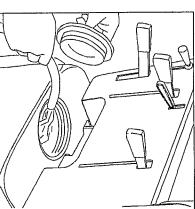
Unscrew the water inlet plug and confirm the solution filter, located on the bottom left side, is properly assembled.



### SOLUTION WATER

detergent necessary. Reassemble the cover proper concentration of liquid detergent by following the manufacturer instructions. Excess foam in the recovery tank can damage the vacuum motor, so use only the minimum amount of Fill the solution tank with clean water at a temperature not more than 50°C/122°F. Add the Excess

**WARNING!** Always use low foaming detergent. Adding antifoam liquid into the recovery tank before cleaning will also help prevent foaming. **NEVER USE PURE ACID.** 

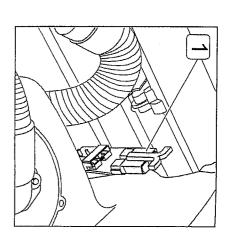


Marin Santage Company

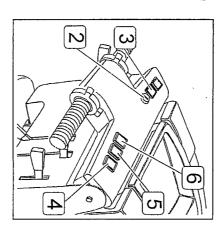
#### **OPERATION**

#### **OPERATING**

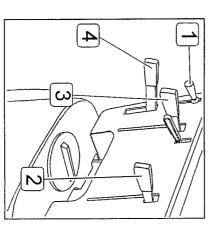
Connect the machine connector (1) to the battery connector.



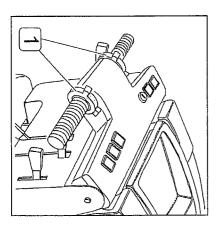
- 'n batteries are charged (if blinking, the batteries need to be charged). Turn the key (2) clockwise to ON. The green signal light will come on (3) indicating the
- ω 4, τ
  - Press the solenoid valve switch (4). Press the vacuum motor switch (5).
- Press the brush motor switch (6).



- 6 solution to wet the floor uniformly, but not so much that it gets past the splash guard. Remember that the correct solution quantity depends on the type of floor, the dirt and the Adjust the amount of cleaning solution through the lever (1). There should be enough
- 9.8.7 Release the lever (2) and lower the brush base.
- Lower the squeegee using lever (3). Check that the parking brake (4) is released.



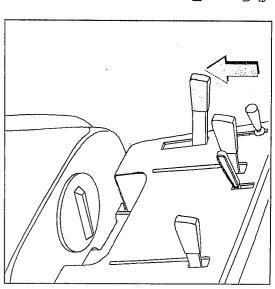
10. The machine will move by pushing the lever (1) on the handle bar forward. During the first few yards of operation, check that the quantity of the cleaning solution is sufficient and that the squeegee dries the floor surface.



#### **OPERATION**

**Attention:** If problems occur during operation, release the lever on the handle bar and immediately lower the brake lever located on the left side. This action will stop the machine's movement.

To restart the machine after the problem has been solved, release the parking brake lever and push the lever on the handle bar forward.

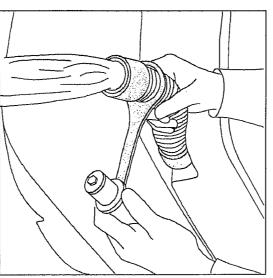


#### DEVICE TOO FULL

The machine is equipped with a float that stops the vacuum motor when the recovery tank is full. When this occurs, empty the recovery tank by removing the plug of the drain hose.

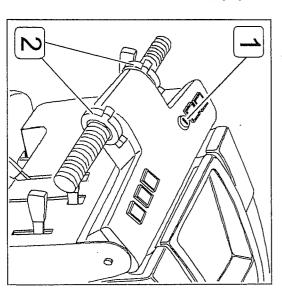


**WARNING!** Use gloves for protection from contact with dangerous solutions.



#### MOVEMENT

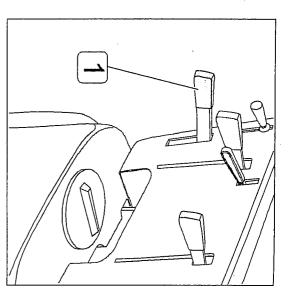
The traction of this machine is obtained through the brush, which is slightly inclined to help drag the machine forward. To move the machine, turn the key (1) ON, wait for 3 seconds and then push the lever (2) on the handle bar forward (reference the OPERATING section on the previous page).



#### OPERATION

#### BRAKE

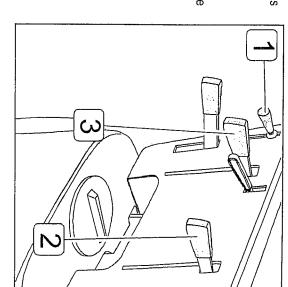
The machine is equipped with a braking system controlled through the left lever (1), which is used as a both a parking and an emergency brake.



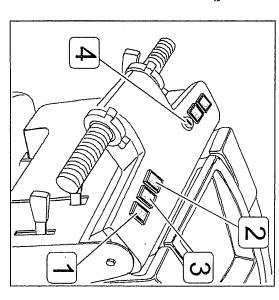
# **UPON COMPLETION OF THE WORK**

After finishing your work and before any type of maintenance is done, it necessary to do the following: S

- Close the water valve through lever (1).
- Lift the brush base with lever (2).
- Lift the squeegee with lever (3). Note: The squeegee bladdiamaged if the squeegee is not raised during storage or transport. Note: The squeegee blades can be



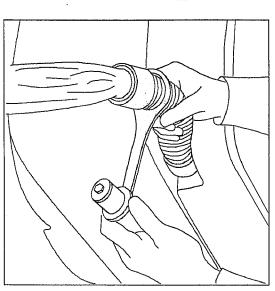
- Switch off the solenoid valve switch (1).
- Switch off the brush switch (2).
- Switch off the vacuum motor switch (3).
- Transport the machine to the location where the recovery tank should be
- တ္ထ Turn the key (4) OFF.
- Set the parking brake.



- Pull out the hose on the front part of the recovery tank.
   Unscrew the drain plug and empty the recovery tank.



12. Take the brush off and clean it with water (for brush disassembly please read the section "DISASSEMBLY OF THE BRUSH").



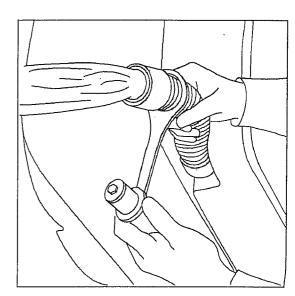
### DAILY MAINTENANCE

# CLEANING THE RECOVERY TANK

- Pull out the hose on the front part of the recovery tank
- Unscrew the drain plug and empty the tank.

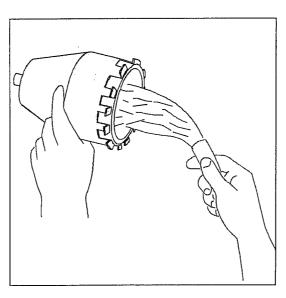


Use gloves to protect yourself from contact with dangerous solutions.

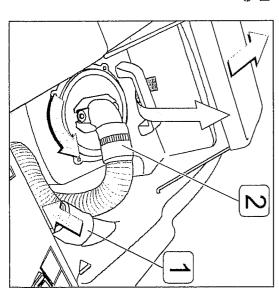


- Lift the recovery tank.
- 0.5.4.0 Take off the vacuum plug (2) rotating it counter-clockwise.
- Remove the filter and its housing. Rinse with water.

housing. If a more thorough cleaning is necessary, separate the filter from its housing. Loosen the screws that lock the filter in place, then unscrew the filter from its'



If removing the recovery tank, remember to detach the squeegee hose (1) and the vacuum plug (2) first. Then proceed with steps 5 and 6 above. Reassemble everything by repeating these operations in reverse.

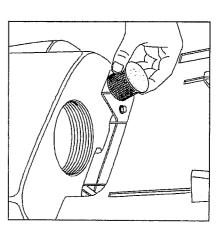


### DAILY MAINTENANCE

# **CLEANING THE SOLUTION TANK FILTER**

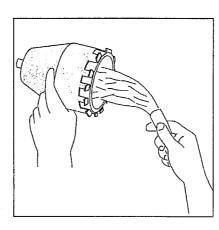
- Unscrew the plug on the solution tank.

  Take out the filter by pulling up on the filter cap, then clean the filter thoroughly with water.
- Reassemble by pushing the cap until it snaps into the filter body.



# **CLEANING THE VACUUM FILTER**

- Lift the cover.
- Take off the vacuum plug by rotating it counter-clockwise.
- 7.6.5.4 Remove the filter and its housing.
  - Use water to clean the walls and the bottom of the filter.
- If necessary, loosen the screws which lock the filter to the housing
- Rotate the filter counterclockwise until it is released
- Wash all components thoroughly.
- Reassemble repeating the above operations inversely

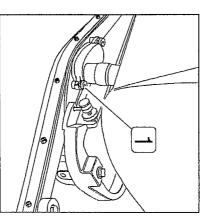


# **CLEANING THE SQUEEGEE**

To obtain the best drying results, keep the squeegee clean.

To clean the squeegee it is necessary to:

- Remove the hose from the squeegee
- Loosen the knobs (1).
- Clean the inside of the squeegee thoroughly.
- Clean the squeegee blades thoroughly.
- Reassemble.

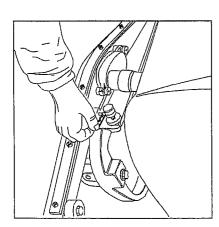


# REPLACING THE SQUEEGEE BLADES

Check the squeegee blades for wear and if necessary, change them.

To replace them:

- Remove the squeegee hose from its coupling.
- Take off the pin from the stud bolt.
- Remove the squeegee from its support
- Loosen the nuts that lock the rubber blades and take them off.
- Replace the blades.
- To reassemble the squeegee, repeat the above operations inversely.



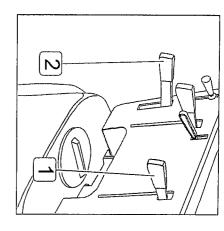
### DAILY MAINTENANCE

# DISASSEMBLY OF THE BRUSH

This machine is equipped with an automatic brush release system.

1. Lift the brush base (lever 1).

2. Set the brake (lever 2).

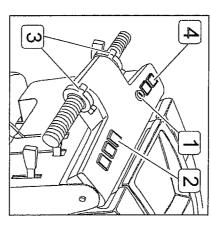


က Turn the key (1) ON and press the brush switch (2) while keeping the release button (4) pressed, then push and release the lever on the handle bar (3).

The brush will loosen and then fall under the cover.



**WARNING!** During this operation make sure there are no objects or people close to the brush.



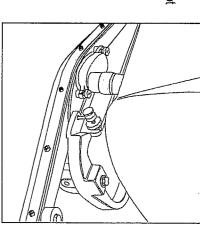
# WEEKLY MAINTENANCE

# **CLEANING THE SQUEEGEE HOSE**

Weekly or whenever the suction is insufficient, make sure the squeegee hose is not obstructed. To clean:

- Take off the hose from its coupling on the squeegee.

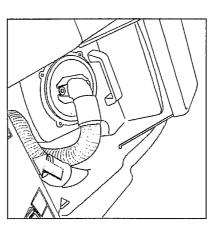
  Take off the other end from the recovery tank.



- ω, 4, Wash the inner part of the hose with a water jet from the tank side.
- Reassemble.

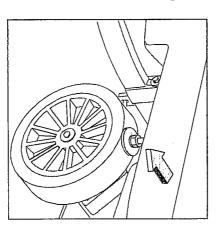


WARNING! Do not wash the hose that goes from the vacuum motor to the vacuum



#### CHECK BRAKE

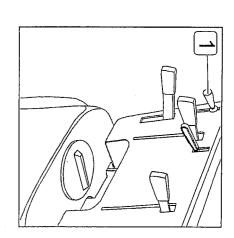
Check the distance between the brake pads and the wheels weekly. Adjust this distance to about 1/8 inch (3mm) by adjusting the nuts shown in the diagram.



# TROUBLE SHOOTING GUIDE

# INSUFFICIENT WATER ONTO THE BRUSH

- 1. Make sure the water valve is open (lever 1).
- 2. Confirm there is water in the solution tank.
- 3. Make sure that the solenoid valve switch is on (button furthest on right).



# THE MACHINE DOES NOT CLEAN SATISFACTORILY

when the bristles reach about 5/8 inch. Check the condition of the brush and replace it if necessary The brush should be replaced

# THE SQUEEGEE DOES NOT DRY THE FLOOR WELL

- 1. Check that the squeegee blades are clean.
- 2. Adjust the inclination of the squeegee (see "MACHINE PREPARATION" #9)
- Confirm the vacuum hose is correctly fitted in its housing on the recovery tank.
- Take off the entire vacuum assembly and clean it.
- Replace the blades if worn.
- 6. Check that the vacuum motor switch is on.
- 7. Check the squeegee height adjustment (see "MACHINE PREPARATION #8).

# **EXCESSIVE FOAM PRODUCTION**

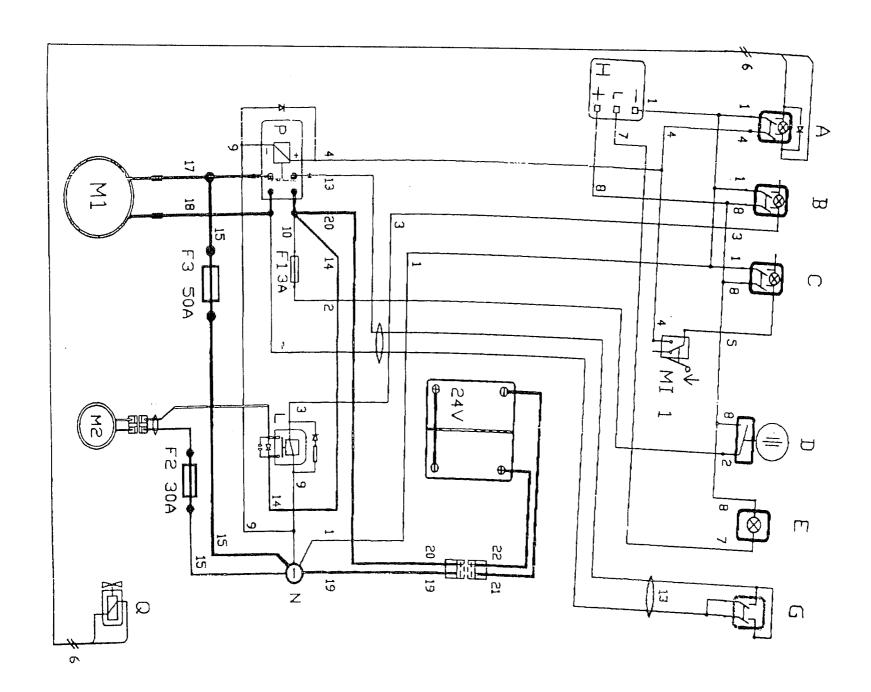
liquid into the recovery tank. Check that a low foam detergent has been used. If required, add a small quantity of antifoam

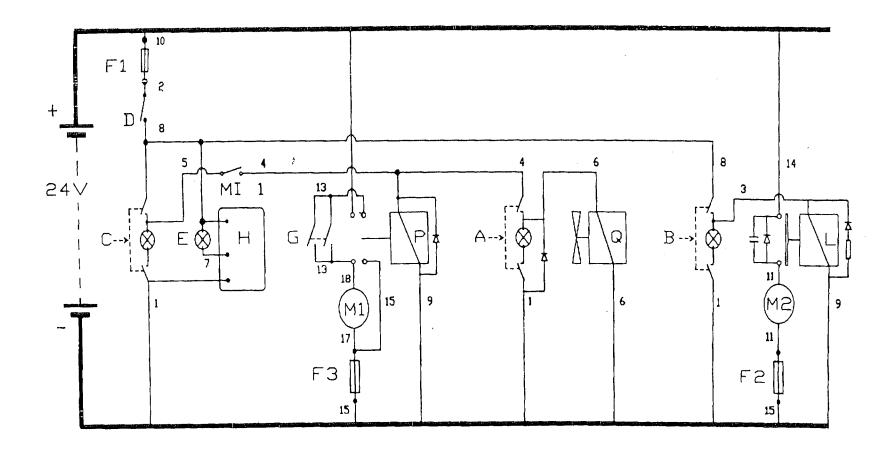
this is the case. Remember that more foam is generated when the floor is not very dirty. Use less detergent if

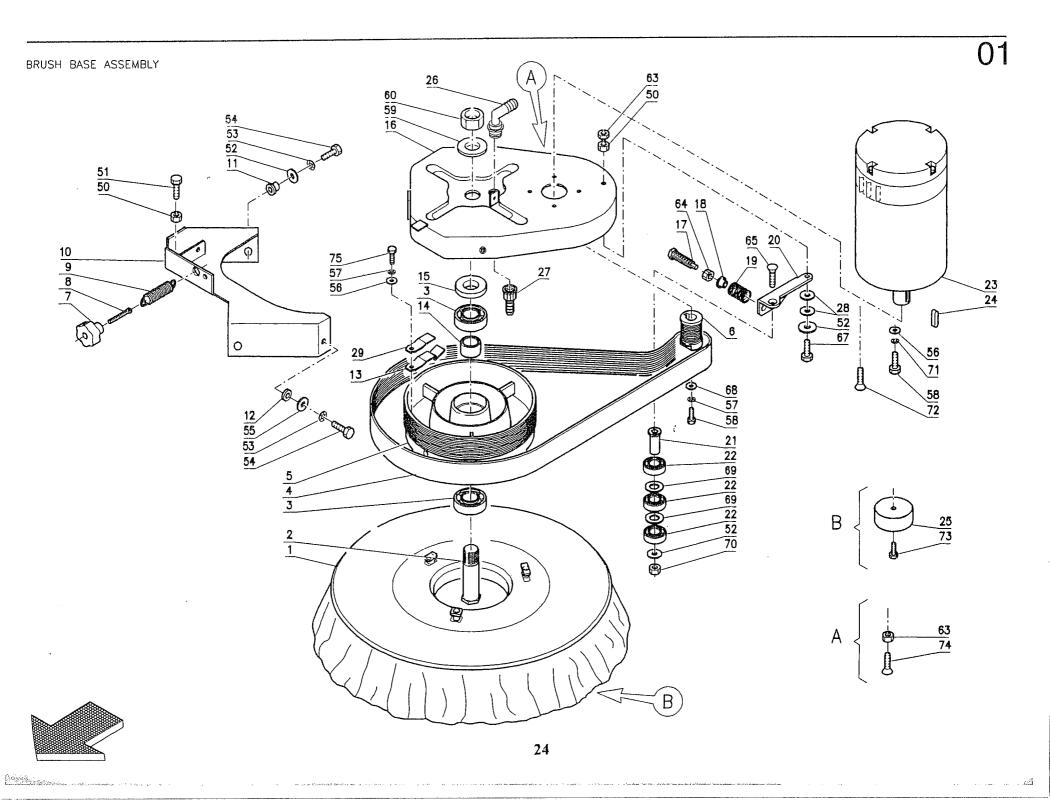
#### ELECTRICAL COMPONENTS AND CABLES

Item	Part Number	Description
A	72102009	Bipolar Switch Green (Solenoid Valve Solution)
В	72102009	Bipolar Switch Green (Suction Motor)
С	72102009	Bipolar Switch Green (Bursh Motor)
D	72107004	Contact/Switch (On/Off General), prior to 8/00
	72107005	Contact/Switch (On/Off General), effective 8/00
E	911167	Green Signal Protected 24V (Control Batteries)
F1	72400301	Fuse 3A (Controls)
F2	72403003	Maxifuse 30A (Suction Motor)
F3	72405002	Maxifuse 50A (Brush Motor)
G	72102010	Bipolar Switch Yellow (Brush Release)
Н	67900001	Check Card Control Batteries 24V
L	887550	Relay 24V 30A Faston (Suction Motor)
M1	68220370	Brush Motor 24V
M2	68120460	Suction Motor 24V with Conveyor Assembled
MI-1	911170	Microswitch 3x22 (Brush Motor)
N	884750	Insulator M5x25 FF (Negative General)
Р	68420230	Remote Control Switch 24V Double with Diode (Brush Motor)
Q	882250	Coil Solenoid Valve 24V - 3/B

Item	Part Number	Description
1/6	68023001	Series Cables and Connectors for Switches
1	68023027	4 Cables Black No. 1
2	68023028	Cable Brown No. 2
3	68023029	Cable Blue No. 3
4-5	68023030	3 Cables Red No. 4-5
6	68023014	2 Cables Brown-Blue No. 6
7	68023003	Cable Blue No. 7
8	68023004	4 Cables Red No. 8
9	68023005	2 Cables Black No. 9
10	68023006	Cable Red No. 10
11	68023007	Cables Suction Motor No. 11
12	72500011	Diode and Resistance with Terminal No. 12
13	68023002	Series Cables and Connector Brush Release No. 13
14	68023008	Cable Red + Condenser and Diode No. 14
15	68023008	Cable Black No. 15
17-18	68023010	2 Cables Black-Red Brush Motor No. 17-18
19-20	68023011	2 Cables Black-Red and Connector 50A
21-22	68023012	2 Cables Black-Red and Connector 50A and Battery Terminals
23	68000154	Cable Bridge with Battery Terminals (+) (-)

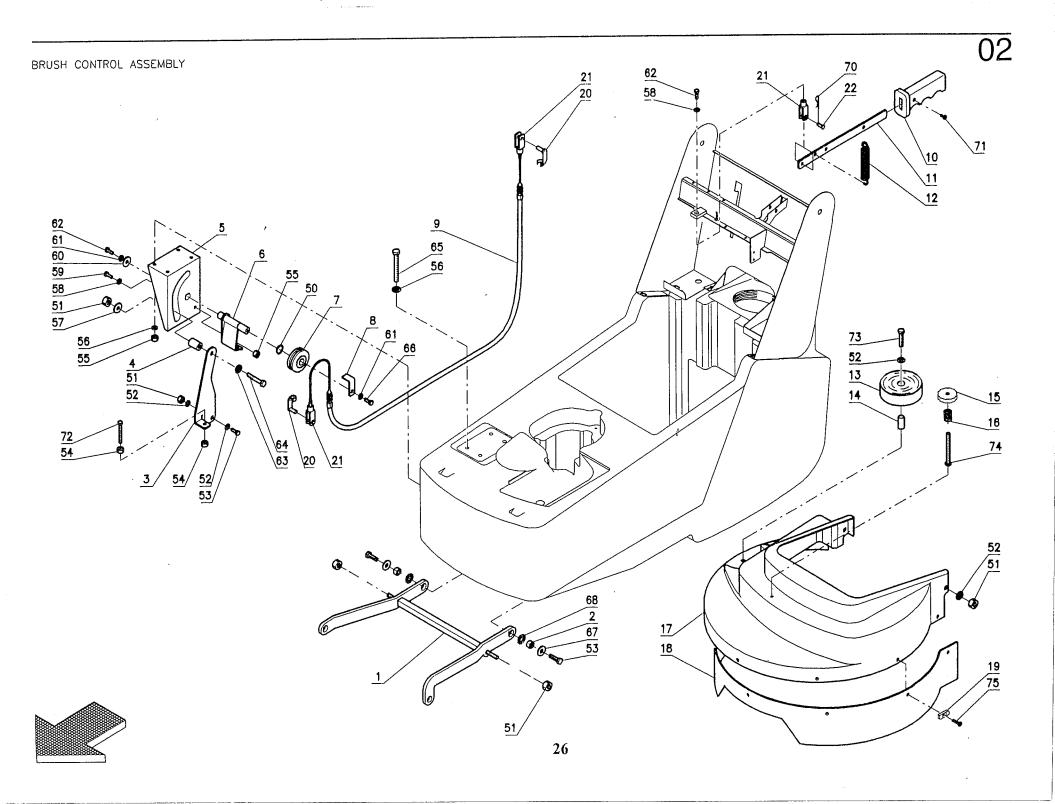






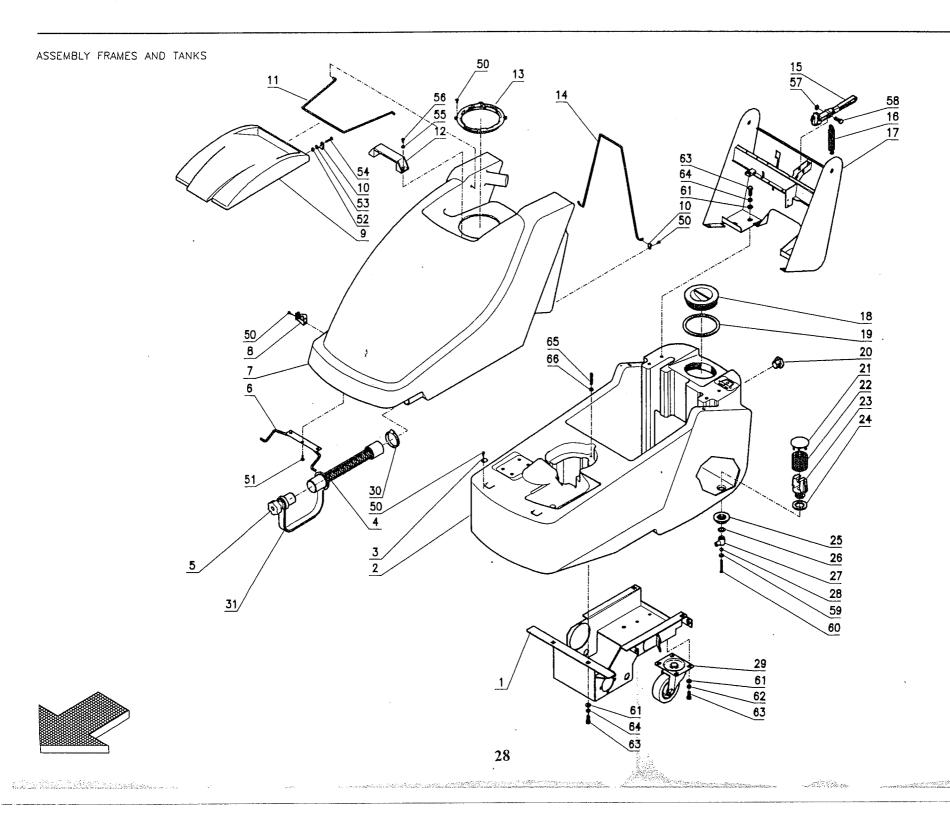
Item	Part Number	Description	Qty.
1	880960	Brush	
	885146	Lugs	3
	70970603	Screws for lugs	3
2	887740	Shaft	1
3	902031	Bearing	2
4	903016	Belt	1
5	886940	Pulley	1
6	69420260	Motor Pulley	1
7	885040	Knob	1
- 8	880540	Adjuster	1
9	888340	Spring	1
10	42301020	Support	1
11	881140	Bushing	2
12	69102050	Bushing	2
13	888341	Spring	2
14	888241	Spacer	1
15	888240	Spacer	1
16	880960	Brush Base	1
17	880541	Adjuster	1
18	881141	Bushing	1
19	888342	Spring	1
20	42301010	Support	1
21	881142	Bushing	1
22	902032	Bearing	3
23	68220370	Motor	1
24	70405041	Key	1
25	980620	Special Washer .	1
26	883346	Connector	1

Item	Part Number	Description	Qty.
27	8833348	Connector	1
28	980051	Spring	2
29	69230470	Spring	3
50	924035	Nut	<del>                                     </del>
_ 51	964085	Screw	
_ 52	980044	Washer	
53	980069	Lock Washer	<del>                                     </del>
54	964086	Screw	
55	980039	Washer	<b></b>
56	980042	Washer	
57	980045	Lock Washer	·
58	964116	Screw	
59	980050	Washer	<del>                                     </del>
60	924040	Nut	<u> </u>
63	71010809	Nut	
64	924039	Nut	
65	964089	Screw	
67	964091	Screw	
68	71106006	Washer	
69	980052	Washer Brass	
70	924033	Lock Nut	
71	71106009	Lock Washer	
72	70980602	Screw	
73	964094	Screw	
74	964093	Screw	
75	964088	Screw	



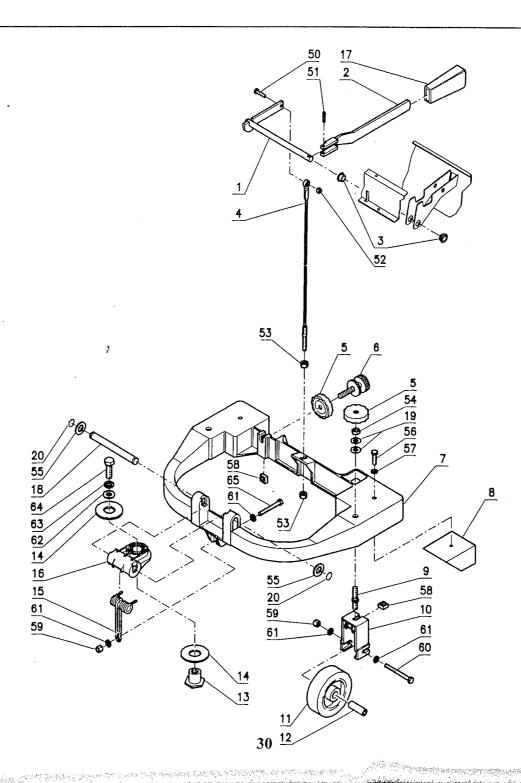
Item	Part Number	Description	Qty.
1	42303110	Arm	1
2	69122030	Bushing	2
3	42303070	Support	1
4	42303080	Roller	1
5	42303030	Support	1
6	42303060	Support	I
7	69410220	Pulley	1
8	42303040	Support	1
9	74803049	Cable	1
10	74100007	Knob	1
11	42303100	Lever	I
12	888336	Spring	I
13	67020030	Bumper	1
14	69102110	Bushing	1
15	42346050	Handwheel	1
16	888345	Spring ,	1
17	42346040	Base Cover	I
18	67623020	Splash Guard	1
19	882131	Plaque	8
20	74620005	Clip	2
21	74610004	Fork	3
22	74620007	Pin	1
50	70220005	Retaining Ring	1
51	924033	Lock Nut	

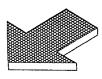
Item	Part Number	Description	Qty.
52	980039	Washer	
53	964090	Screw	
54	924048	Nut	
55	924026	Lock Nut	
56	980042	Washer	
57	980070	Washer	
58	980040	Washer	
59	964116	Screw	
60	980065	Washer	
61	71106009	Lock Washer	
62	964107	Screw	
63	980069	Lock Washer	
64	964106	Screw	
65	70910620	Screw	
66	70910601	Screw	
67	980044	Washer	
68	980053	Lock Washer	
70	71600003	Clip .	
71	70944801	Screw	
72	70910621	Screw	
73	70910812	Screw	
74	70910626	Screw	
75	964099	Screw	
	A4626003	Base Cover Assembly	



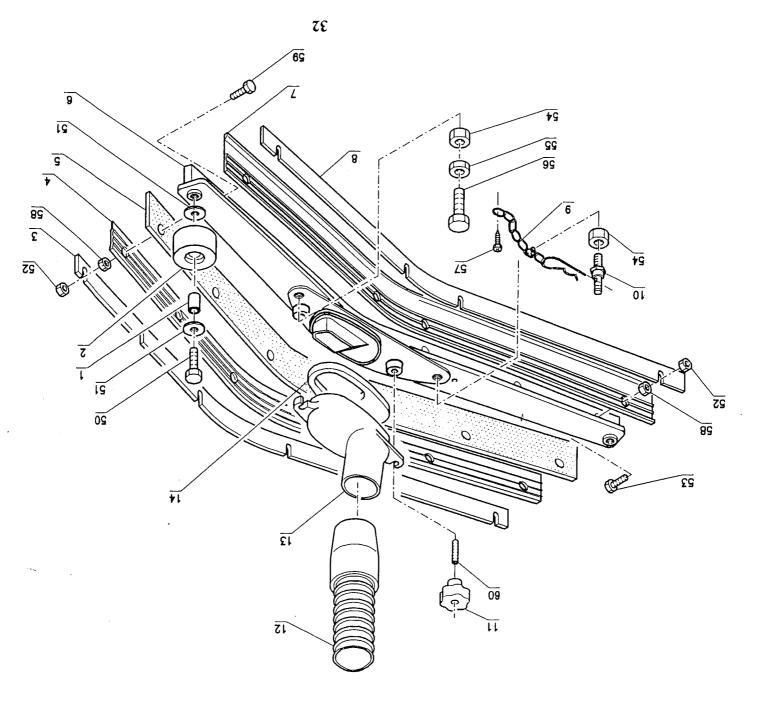
Item	Part Number	Description	Qty.
1	69923100	Frame	1
2	69723010	Solution Tank	1
3	42336050	Plaque	2
4	67512580	Exhaust Pipe	1
5	886842	Cover	1
6	42336040	Hinge	1
7	69723020	Recovery Tank	1
8	69230120	Hook	1
9	42346020	Cover	1
10	72902008	Cable Fastener	4
11	42346010	Hinge	1
12	883930	Handle	1
13	42036030	Bracket	1
14	42336030	Prop	1
15	885143	Lever	1
16	888344	Spring	1
17	69923200	Frame	1
18	882337	Cover	1
19	883444	Gasket	1
20	74550009	Cover	1
	67400640	Gasket	1
	74560019	Fitting (in tank)	1
21	882331	Cover	1
22	883331	Filter	1
23	42336010	Base	1
24	883430	Gasket	1

Qty.		Item	Part Number	Description	Qty.
1		25	924027	Ring Nut	1 1
1		26	70800020	O-Ring	
2		27	42336020	Elbow	1
1		28	70800024	O-Ring	1
1		29	67050120	Castor Wheel	1
1		30	74220054	Clamp	1
1		31	42341010	Clamp	1
1		50	70943502	Screw	
1		51	70944801	Screw	
4		52	924029	Lock Nut	
1		53	71104002	Washer	
1		54	70950401	Screw	
1		55	980066	Washer	
1		56	70944807	Screw	
1		57	924033	Lock Nut	
1		58	964103	Screw	
1		59	980071	Washer	
1		60	70944206	Screw	
1		61	980039	Washer	
1		62	980053	Lock Washer	
1	}	63	964086	Screw	
1		64	980069	Lock Washer	
1		65	925606	Dowel	
1		66	924048	Nut	
1	]				
1				]	



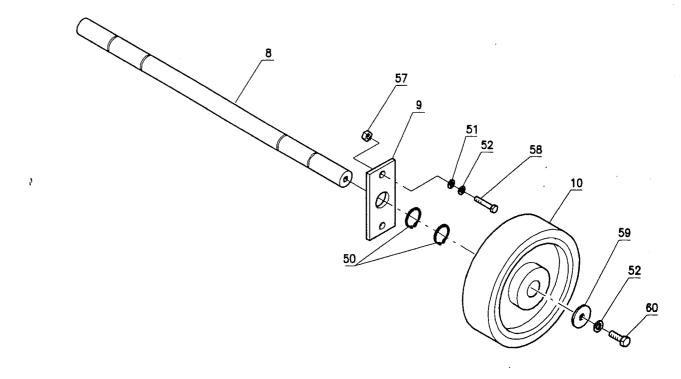


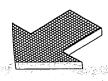
Item	Part Number	Description	Qty.
1	42312050	Lever	1
2	42312070	Lever	1
3	69122010	Bushing	2
4	74803048	Cable	1.
5	924049	Handwheel	3
6	880551	Adjuster	2
7	42312040	Arm	1
8	42312080	Ballast	2
9	42312060	Pin	2
10	42312030	Support	2
11	67010050	Wheel	1
12	69122020	Bushing	2
13	41312070	Pin	1
14	41312080	Special Washer	2
15	69230020	Spring	1
16	42312010	Coupling	1
17	74100005	Knob	1
18	42312020	Pin	1
19	980051	Cupped Washer	4
20	70220003	Seeger Ring	2
50	964065	Screw	
51	71404005	Spring Pin	
52	924032	Lock Nut	
53	71010503	Nut Low	
54	71010809	Nut	
55	71112001	Washer	
56	964116	Screw	
57	71106009	Lock Washer	
58	71010810	Special Nut	
59	924026	Lock Nut	
60	70910627	Screw	
61	980042	Washer	
62	980064	Washer	
63	71110007	Lock Washer	
64	964111	Screw	
65	70910621	Screw	



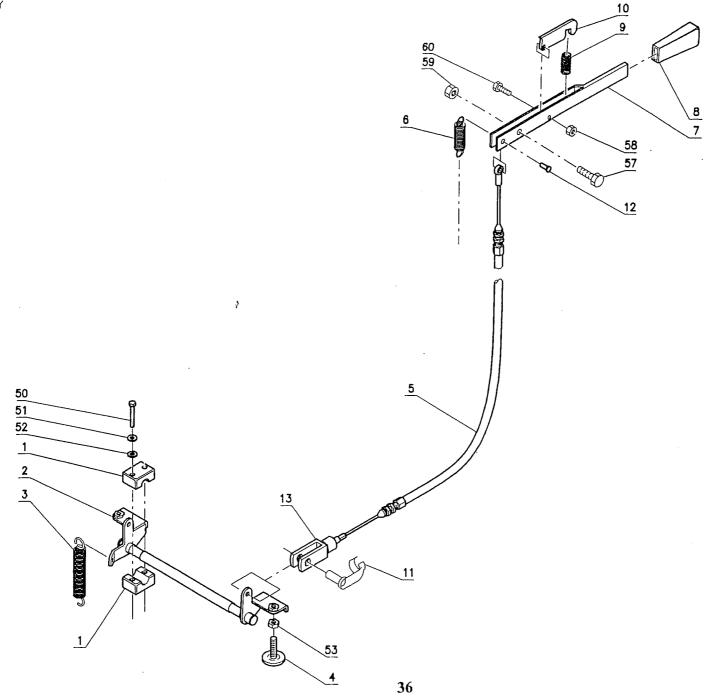
#### DRAWING O5

Item	Part Number	Description	Qty.
1	881145	Bushing	2
2	889742	Bumper	2
3	68813020	[Diduo] and a second of the second control of the second o	1
4	880750	Rear Rubber	1
5	880752	Central Rubber, Concrete Floor, Beige, 31" long	1
	880751	Central Rubber, Smooth Floor, Red, 31" long	
6	69623010	Squeegee Body	1
7	880753	Front Rubber	1
8	68813010	Blade	1
9	882444	Chain with Clip	1
10	42311010	Stud Bolt	1
11	885046	Knob	2
12	67512620	Suction Hose	1
13	880240	Opening	1
14	67406100	Gasket	1
50	964085	Screw	
51	980039	Washer	
52	924050	Lock Nut	
53	964109	Screw	
54	924061	Nut	
55	924053	Nut Low	
56	70911006	Screw	
57	964126	Screw	
58	924054	Nut	
59	964110	Screw	
. 60	925606	Dowel	
	A9623001	Squeegee Assembly	





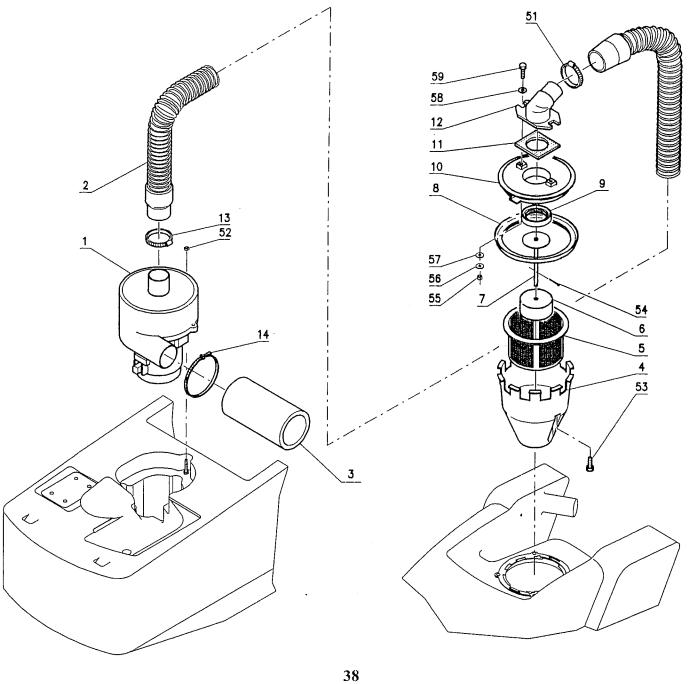
Item	Part Number	Description	Qty.
8	42317020	Shaft	1
9	42317030	Support	2
10	67010300	Wheel	2
50	70220016	Seeger Ring	4
51	980042	Washer	
52	980045	Lock Washer	
57	924026	Lock Nut	
58	964116	Screw	
59	980065	Washer	
60	964107	Screw	

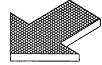




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Item	Part Number	Description	Qty.
1	. 882043	Holdfast	4
2	42318010	Shaft Assembly	1
3	69220160	Spring	1
4	41318090	Pad	2
5	74803051	Brake Cable	1
6	888336	Spring	1
7	40318100	Lever	1
8	74100005	Knob	1
9	69210540	Spring	1
10	40318110	Lever	1
11	74620005	Clip	1 1
12	74620007	Pin	1
13	74610004	Fork	1
50	964079	Screw	
51	71106009	Lock Washer	
52	980042	Washer	
53	71010809	Nut	
57	964086	Screw	
58	924029	Lock Nut	
59	924033	Lock Nut	
60	70910407	Screw	ş .

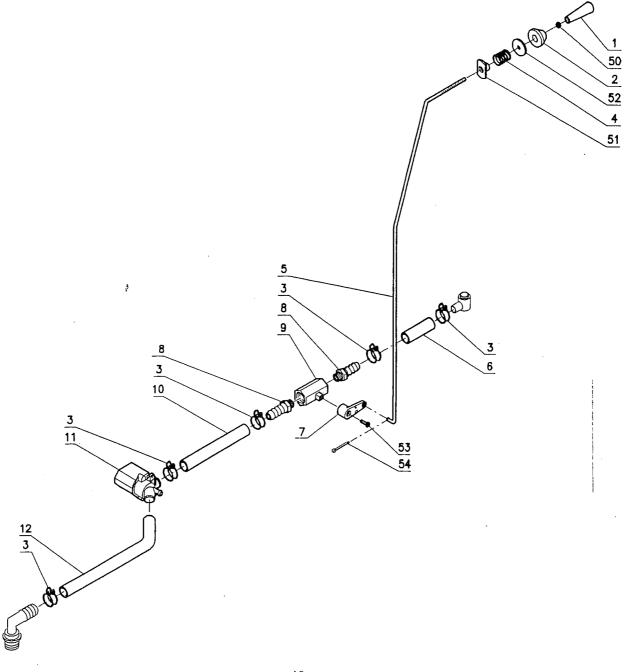


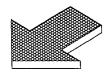


Item	Part Number	Description	Qty.
1	68120450	Vacuum Motor	1
2	67512630	Vacuum Hose	11
3	67532130	Soun Deadening Hose	1
4	888551	Protection	1
5	883343	Filter	1
6	883344	Float	1
7	887440	Rod	1
8	883441	Gasket	1
9	883442	Gasket	1
10	886841	Cover	1
11	883446	Gasket	1
12	882442	Opening	1
13	882041	Clamp	1
14	74210002	Clamp	1
52	924050	Lock Nut	
53	964104	Screw	
54	925603	Split Pin	
55	924045	Nut	
56	71104002	Washer	
57	980059	Washer	
58	980060	Washer	4
59	964105	Screw	
	A6520001	Filter Assembly	l

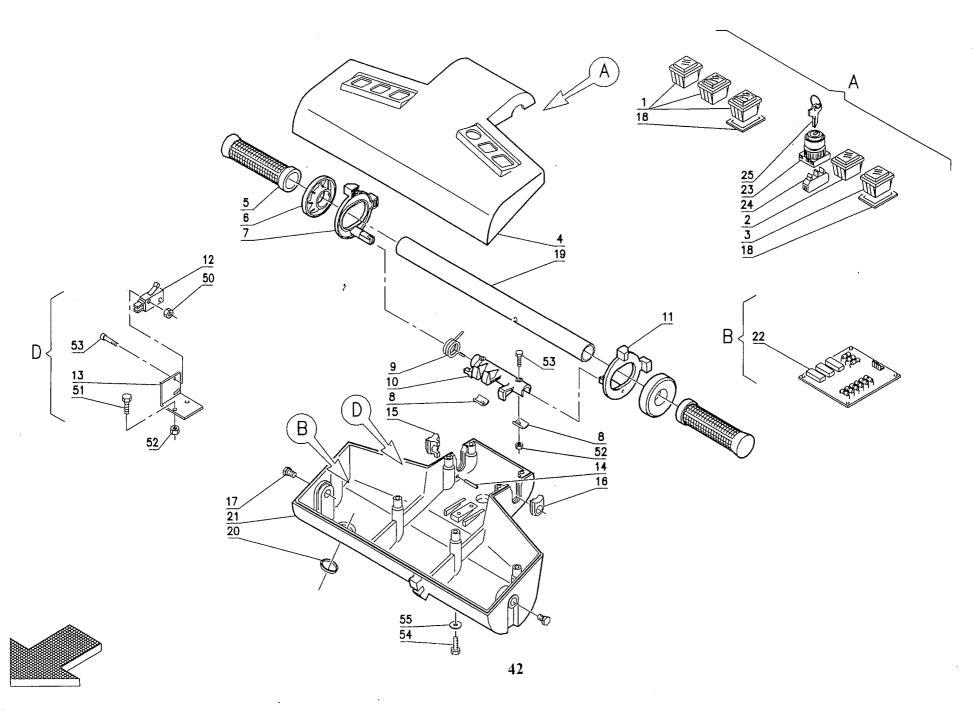


WATER UNIT





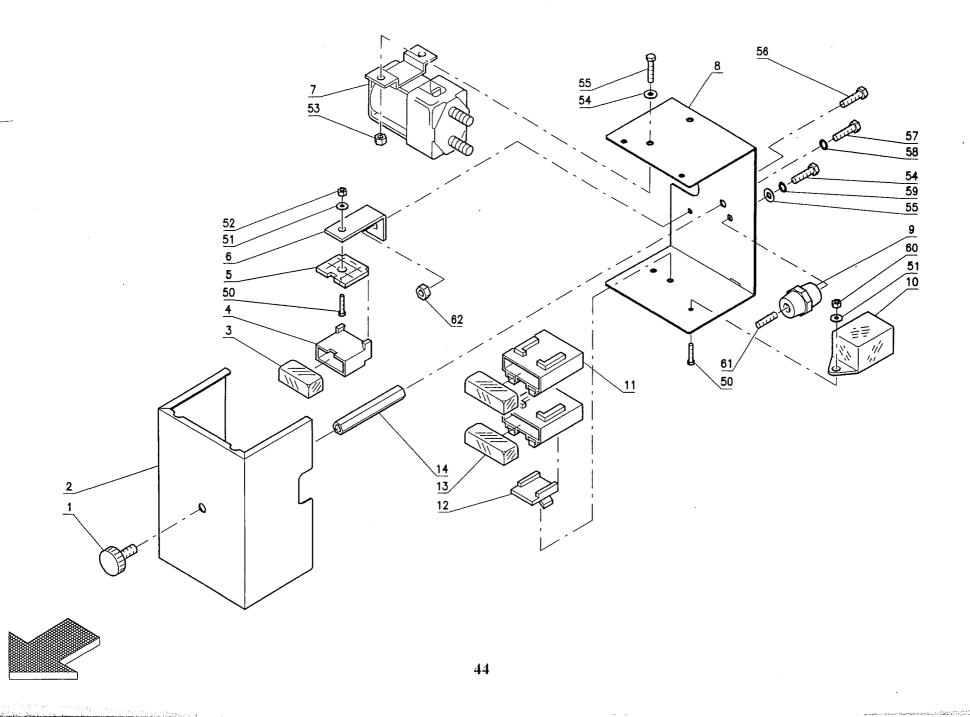
Item	Part Number	Description	Qty.
1	885044	Knob	1
2	980621	Special Washer	1
3	882051	Clamp	6
4	888345	Spring	1
5	42337010	Rod	1
6	67523060	Pipe	1
7	42337020	Lever	1
8	883347	Connector	2
9	889440	Cock	1
10	67523040	Pipe	1
11	889451	Solenoid Valve	1
12	67523060	Pipe	1
50	924046	Nut	
51	924047	Nut	
52	980061	Washer	
53	70950401	Screw	<u> </u>
54	925609	Split Pin	



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#### DRAWING 10A

Item	Part Number	Description	Qty.
1	72102009	Switch	3
2	72300110	Signal Lamp Green	1
3	72102010	Switch, Brush Release	1
4	882342	Handle Bar Cover	1
5	885042	Knob	2
6	980623	Special Washer	2
7	885141	Lever	11
8	882140	Clip Retaining	2
9	888343	Spring	1
10	41328010	Shaft	1
11	885142	Lever	1
12	911170	Mrcroswitch	11
13	888548	Support	1
14	71404005	Spring Pin	1
15	887240	Retainer RH	1
16	887241	Retainer LH	1
17	42326010	Special Screw	2
18	883440	Gasket	5
19	886040	Pipe	1
20	883841	Fairlead	1
21	881341	Handle Bar Body	1
22	67900001	Check Card Batterires	1
23	72199012	Switch with Two Keys (no cover), prior to 8/00	
	72199015	Switch with Two Keys (grey rubber cover), Effective 8/0	1
24	72107004	Switch Only, prior to 8/00	
	72107005	Switch Only, Effective 8/00	1
25	72908010	Keys, Set of Two, prior to 8/00	
	72908017	Keys, Set of Two, (grey rubber cover), Effective 8/00	1
50	924043	Lock Nut	
51	70910407	Screw	
52	924031	Nut	
53	964101	Screw	
54	964123	Screw	
55	980041	Lock Washer	



Item	Part Number	Description	Qty.
1	74006003	Knob	1
2	42351020	Cover	1
3	72916002	Cover	1 1
4	72400011	Fuseholder	1
5	72916001	Plaque	1
6	41251100	Support	1
7	68420220	Double Remote Control Switch	1
8	72351010	Cover	1
9	884750	Insulator	1
10	68420410	Relay	1
11	72400012	Fuseholder	2
12	72916004	Plaque	1
13	72916003	Cover	2
14	42351030	Stud Bolt	I
50	70940301	Screw	
51	71103002	Washer	
52	71010301	Nut	
53	924032	Lock Nut	
54	964082	Screw	
55	980066	Washer	· ·
56	964098	Screw	
57	964088	Screw	
58	980045	Lock Washer	1
59	980041	Lock Washer	
60	924043	Lock Nut	
61	70960502	Dowel	
62	924029	Lock Nut	