



Electronic Service Manuals

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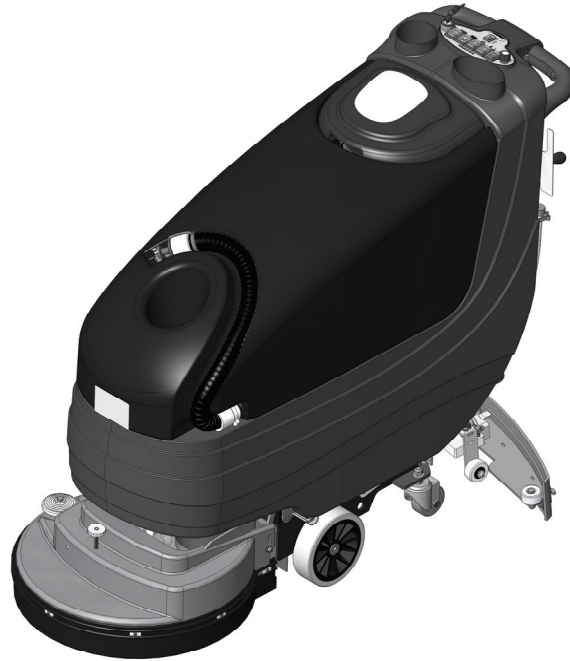
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PACIFIC



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

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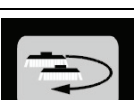






SAFETY INSTRUCTIONS

- 1) You must have training in the operation of the machine before using it. **READ THE INSTRUCTION BOOK.** If you do not understand any instruction, ask your supervisor.
- 2) Make sure all labels, decals, warnings, cautions and instructions are fastened to the machine.
- 3) Read the labels carefully on the machine. Do not cover them for any reason and replace them if damaged.
- 4) Do not operate this machine unless it is completely assembled and inspect the machine carefully before operation.
- 5) Pay close attention to other people and especially children while operating this machine.
- 6) Be a careful driver and do not strike shelving or scaffolding, especially where there is a danger of falling objects.
- 7) Machines can cause an explosion when operated near flammable materials and vapors. Do not use this machine with or near fuels, grain dust, solvents, thinners, or other flammable materials.
- 8) 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 an incline. Do not stop and leave the machine on a ramp or incline.
- 13) During any maintenance operation disconnect the power supply from the machine.
- 14) 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 SMOKING.** Charge the batteries only in an area with good ventilation.
- 15) Do not use a charger if the power cord is damaged or if charger is not rated for the machine.
- 16) 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 on the top of the batteries.
- 17) Maintenance and repairs must be performed by authorized Service Centers only.
- 18) Keep the electrical parts of the machine dry. Do not wash the machine with direct water jets or high pressure, or with corrosive material. For storage, keep the machine in a dry location.
- 19) Water solutions or cleaning materials used with this type of machine can leave wet areas on the floor surface. These areas can cause a dangerous condition for the operator or other persons. Always put **CAUTION** signs near the area you are cleaning.
- 20) Do not reach under shrouds with fingers, hands, or toes when machine is running.



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SYMBOLS USED ON THE AUTOMATIC SCRUBBER

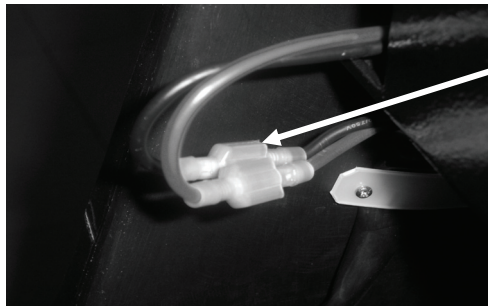
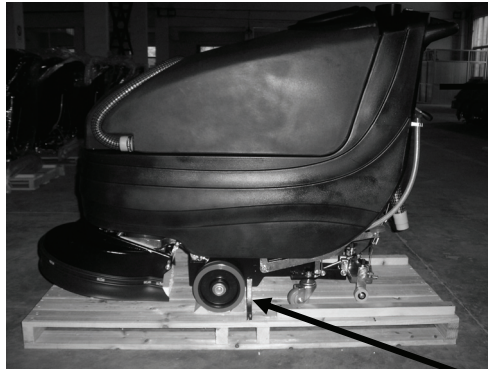
	Water Valve Indicator
	Brush Drive Motor Control Switch
	Vacuum Motor Control Switch
	Brush Release Switch
	Battery Charge Indicator
	Main Machine Power Key Switch
	Forward – Reverse Traction Drive Switch
	Traction Drive Speed Control
	Squeegee Lift Control Lever
	Solution Flow Rate Adjusting Lever



PACIFIC MACHINE PREPARATION

1) UNPACKING THE MACHINE

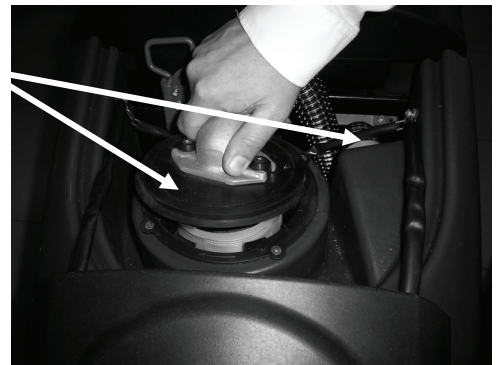
- a) Take off the outer packaging.
- b) The machine is fastened to the pallet with wooden wedges that block the wheels. Remove tie down straps.
- c) Disconnect traction motor black lead wire located near the vacuum motor support.
- d) Using a ramp, pull the machine off the pallet.
- e) Reconnect traction motor black lead wire.



2) BATTERY INSTALLATION

- a) Remove the squeegee hose from the recovery tank.
- b) Remove the vacuum cover by rotating it counterclockwise.
- c) Remove recovery tank by lifting tank by lift chain at the back of the tank and the drain hose at the front of the tank.

Remove



Lift Chain

Drain Hose Lift Point



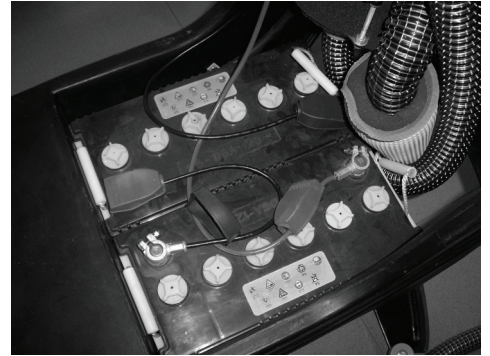


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MACHINE PREPARATION

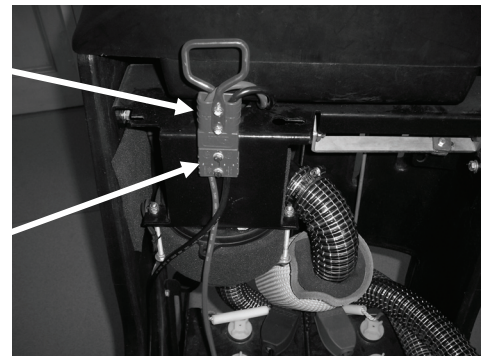
BATTERY INSTALLATION (Cont.)

- d) Place the batteries in the battery compartment.
- e) Connect the battery connector to the machine connector
- f) Replace the recovery tank and reassemble the vacuum cover and squeegee hose.



Machine Connector

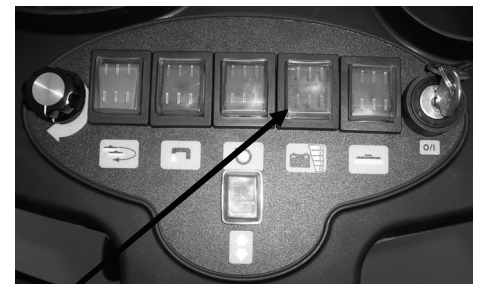
Battery Connector



3) BATTERY CHARGE LEVEL INDICATOR

The battery indicator is digital with 4 display levels and a flashing one. The numbers, which appear on the display, show the approximate charge level. 4 represents a full charge and 0 represents discharged and the batteries must be recharged.

NOTE: The brush motor automatically switches off after the battery indicator light begins to flash. You will be able run the vacuum motor and finish drying any wet areas.



Battery Charge
Indicator



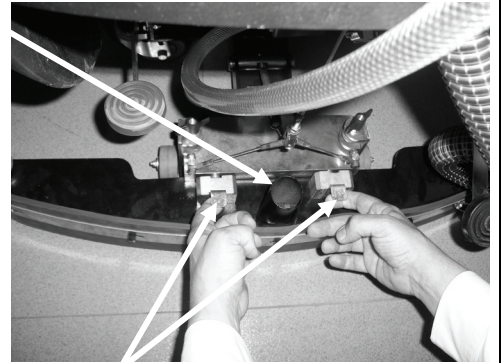
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MACHINE PREPARATION

4) SQUEEGEE ASSEMBLY INSTALLATION

The squeegee is assembled to the machine by lifting the locking latches and sliding the squeegee assembly onto the 2 posts at the rear of the squeegee swing arm. Push on the locking latches down. Lower the squeegee and install vacuum hose over vacuum outlet on squeegee assembly. The hose should be located to the rear of the lifting cable.

Vacuum
Outlet



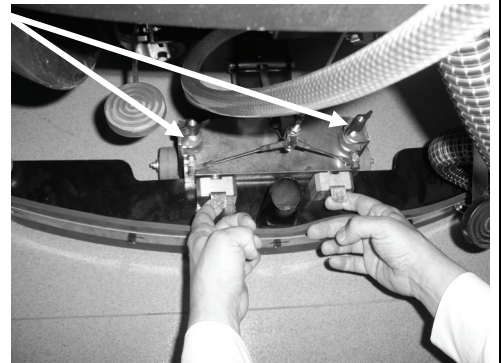
Locking Latches

5) ADJUSTING SQUEEGEE HEIGHT

The height from floor to squeegee should be adjusted based on blade wear. Rotate the adjusting knobs counter-clockwise to lower squeegee and clockwise to lift it.

NOTE: Rotate the right and left adjusting knobs until the squeegee is positioned parallel to the floor.

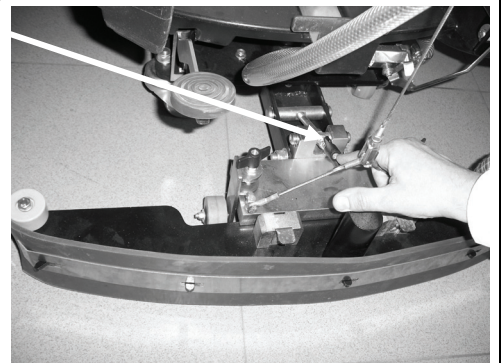
Height
Adjusting
Knobs



6) ADJUSTING SQUEEGEE INCLINATION

During operation the rear squeegee blade is most efficient when bent backwards roughly $3/16^{\text{ths}}$ to $5/16^{\text{ths}}$ of an inch along its entire length. To increase the blade bending in the center of the squeegee, tilt the squeegee body backward by turning the adjuster knob counter-clockwise. Conversely, turn the adjuster knob clockwise to increase the bending at the outside edges of squeegee blade.

Inclination
Adjusting
Knob





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MACHINE PREPARATION

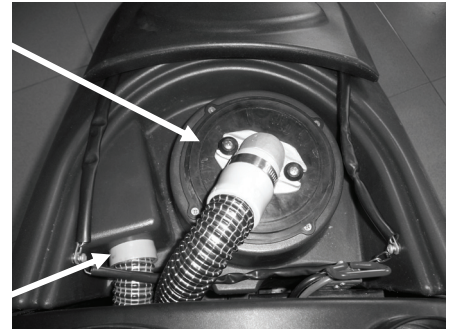
7) RECOVERY TANK

Open the lid and confirm the following connections are secure:

- The vacuum cover is securely attached. Align the notches and rotate the cover clockwise to close. The vacuum hose must also be attached.
- Confirm that the squeegee hose is properly connected.
- Confirm that the drain hose plug, which is located at the front of the machine, is closed.

Vacuum Cover

Squeegee Hose



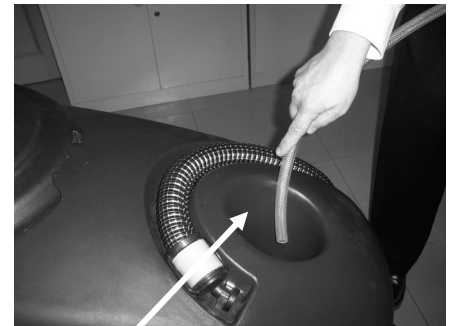
8) SOLUTION WATER

Fill the solution tank with clean water at a temperature not higher than 50°C / 122°F. Add the 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 detergent necessary. Reassemble the cover.



WARNING! Always use low foaming detergent. Adding antifoam liquid into the recovery tank before cleaning will also help prevent foaming.

NEVER USE ACID, BLEACH or AMMONIA

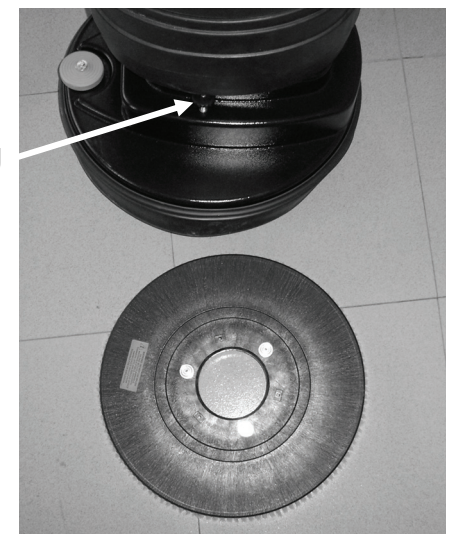


Solution Tank Fill Opening

9) BRUSH INSTALLATION

- Lift the brush base by depressing the foot level at the rear of the machine.
- Place the brush at the front of the machine and push machine forward, centering the brush deck over brush.
- Lower the brush deck onto the brush and move machine until brush deck drops through brush.
- Turn on brush motor switch and engage handle switch lever. The brush will automatically lock onto the brush drive mechanism.
- Adjust the height of the splash guard such that it just clears the floor by turn the splash guard height adjusting knob.


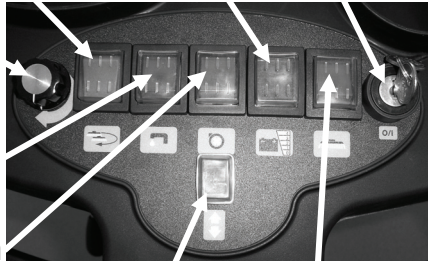
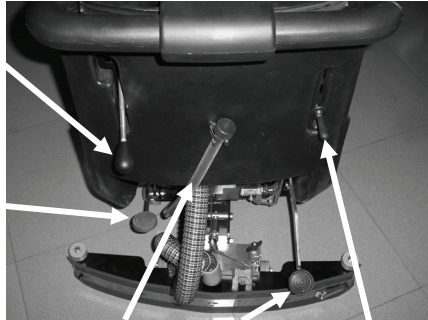
Splash Guard Height Adjusting Knob





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MACHINE OPERATION

<p>1) Connect machine connector to the battery connector.</p>	<p>Machine Connector</p> <p>Battery Connector</p> 
<p>2) Turn on the main power key switch. Battery charge indicator will illuminate indicating the charge level of the batteries. If the indicator is flashing the batteries need to be charged.</p> <p>3) Turn on the brush motor switch. Please note that the scrubbing brush will not rotate until the hand switch lever is engaged.</p> <p>4) Turn on the water solenoid valve switch.</p> <p>5) Turn on the vacuum motor switch.</p>	<p>Brush Release Switch</p> <p>Battery Charge Indicator</p> <p>Main Power Key Switch</p> <p>Traction Drive Speed Control</p> <p>Water Solenoid Switch</p> <p>Vacuum Motor Switch</p> <p>Traction Directional Switch</p> <p>Brush Motor Switch</p> 
<p>6) Adjust the flow rate of the cleaning solution with lever. Moving the solution flow control lever downward increase the flow rate and raising the lever decreases the flow rate. There should be enough solution to wet the floor uniformly, but not so much that the water gets past the splash guard. Remember that the correct solution quantity depends on the type of floor, the dirt level and the scrubbing speed.</p> <p>7) Release parking brake by raising parking brake lever.</p> <p>8) Release and raise the brush base lift lever to lower the brush base.</p> <p>9) Lower the squeegee using the squeegee lift lever.</p>	<p>Squeegee Lift Lever</p> <p>Parking Brake Lever</p> <p>Solution Tank Drain Hose</p> <p>Brush Base Lift Lever</p> <p>Solution Flow Control Lever</p> 




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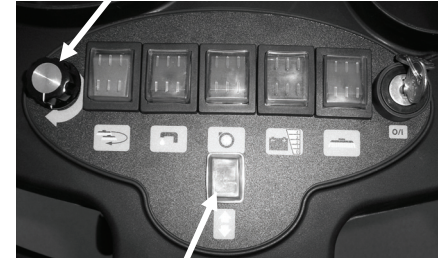
MACHINE OPERATION

10) MACHINE MOTION

This machine is equipped with traction wheel propulsion. To move machine forward, rock traction directional switch forward and depress the handle switch lever. Adjust the forward speed with the traction drive speed control knob. During the first few yards of operation, check that the quantity of the cleaning solution is sufficient to wet the floor and that the squeegee dries the floor surface. To move machine in reverse, lift the squeegee assembly with the squeegee lift lever and rock traction directional switch rearward and depress the handle switch lever.

 **WARNING!** Always lift the squeegee when moving backwards.


Traction Drive Speed Control



Traction Directional Switch

11) SCRUBBING

Depress the handle switch lever. The scrub brush will begin to rotate and solution will begin to flow. During the first few yards of operation, check that the quantity of the cleaning solution is sufficient to wet the floor and that the squeegee dries the floor surface.


 **WARNING!** Always lift the squeegee when moving backwards.

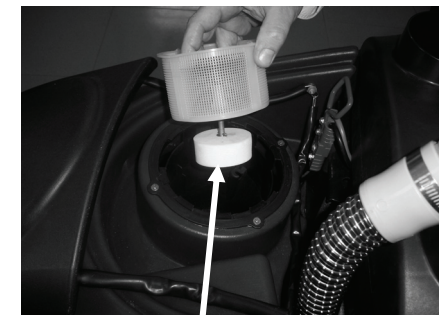
Handle Switch Lever



12) OVER FILL PROTECTION

The machine is equipped with a float that stops the vacuum exhaust air flow when the recovery tank is full. Vacuum motor does not stop operating but the vacuum exhaust air flow rate is greatly reduced. When this occurs, empty the recovery tank by removing the drain plug on the drain hose and then empty the recovery tank.

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



Float



Drain Plug



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UPON COMPLETION OF MACHINE USE

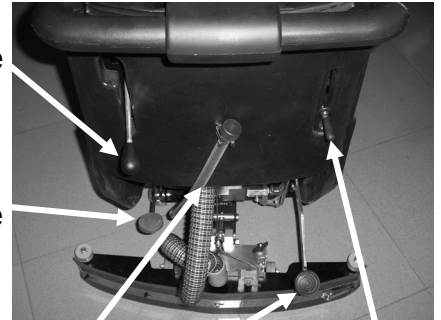
After finishing your work and before any type of maintenance is done, it is necessary to do the following:

- 1) Close the water valve by raising the solution flow control lever.
- 2) Raise the brush base by stepping down locking the brush base lift lever. To lock the lever move your foot to the right while the lever is pressed down.
- 3) Lock parking brake by stepping down on parking brake lever. To lock the lever move your foot to the right while the lever is pressed down.
- 4) Lift the squeegee by raising the squeegee lift lever and locking it by moving the lever to the left.



WARNING! The squeegee blades can be damaged if the squeegee is not raised during storage or transport.

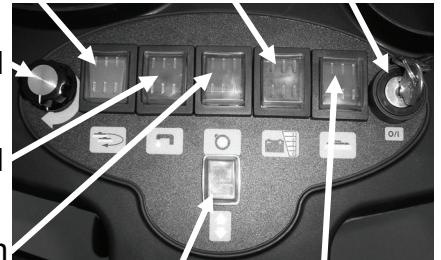
Squeegee Lift Lever
Parking Brake Lever



Solution Tank Drain Hose
Brush Base Lift Lever
Solution Flow Control Lever

- 5) Switch off main power key switch.
- 6) Switch off the water solenoid valve switch.
- 7) Switch off the brush motor switch.
- 8) Switch off the vacuum motor switch.
- 9) Transport the machine to the location where the recovery tank should be emptied.

Brush Release Switch
Battery Charge Indicator
Main Power Key Switch
Traction Drive Speed Control
Water Solenoid Switch
Vacuum Motor Switch
Traction Directional Switch
Brush Motor Switch



- 10) Remove the drain hose at the front of the recovery tank.
- 11) Remove the drain plug and empty the recovery tank.



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

- 12) Remove the brush or pad driver and clean them with clear water.



Drain Plug



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DAILY MACHINE MAINTENANCE

CLEANING THE RECOVERY TANK

- 1) Empty the recovery tank by removing the drain plug from the drain hose.



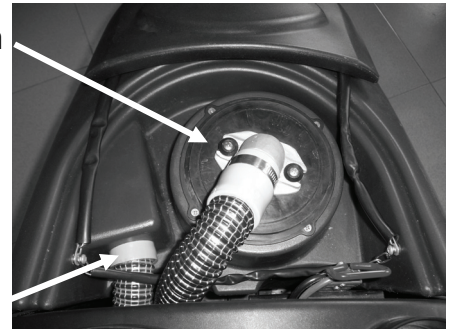
WARNING: Use gloves for protection from contact with dangerous solution.



Drain Plug

- 2) Lift the cover of the recovery tank.
- 3) Take off the vacuum cover by rotating it counter clockwise.
- 4) Remove the filter and its housing.
- 5) Rinse the tank with clean water.

Vacuum Cover



Squeegee Hose

CLEANING THE VACUUM FILTER

- 6) Lift the cover.
- 7) Take off the vacuum cover by rotating it counter clockwise.
- 8) Remove the filter and its housing.
- 9) Use clear water to clean the walls and the bottom of the filter.
- 10) Remove the filter and its housing.
- 11) Wash all components thoroughly.
- 12) Reassemble repeating the above operations in reverse.





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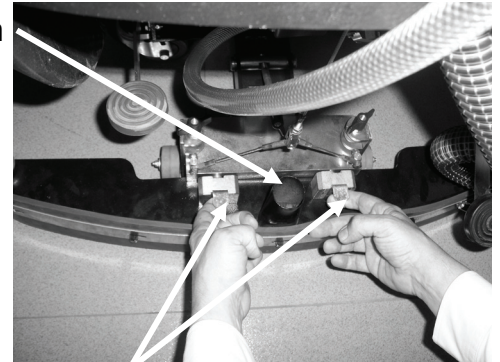
DAILY MACHINE MAINTENANCE

CLEANING THE SQUEEGEE

To obtain the best drying results, keep the squeegee clean. To clean the squeegee it is necessary to:

- 13) Remove the vacuum hose from the squeegee.
- 14) Lift locking latches. Remove the squeegee assembly by pulling rearward.
- 15) Clean the inside of the squeegee thoroughly.
- 16) Clean the squeegee blades thoroughly.
- 17) Reassemble.

Vacuum
Outlet



Locking Latches

REPLACING THE SQUEEGEE BLADES

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

- 18) Remove the squeegee vacuum hose from its port.
- 19) Lift locking latches and pull squeegee assembly rearward.
- 20) Release the band clamps by lifting the band clamp latch.
- 21) Remove squeegee blades.
- 22) Rotate or replace the blades. Please note that the squeegee has 4 useable edges so you may be able to rotate squeegee blades.
- 23) To reassemble the squeegee, repeat the above operations in reverse.



Band
Clamp
Latch



Squeegee
Blade



Band
Clamp

Band
Clamp
Latch



Squeegee
Blade



Band
Clamp



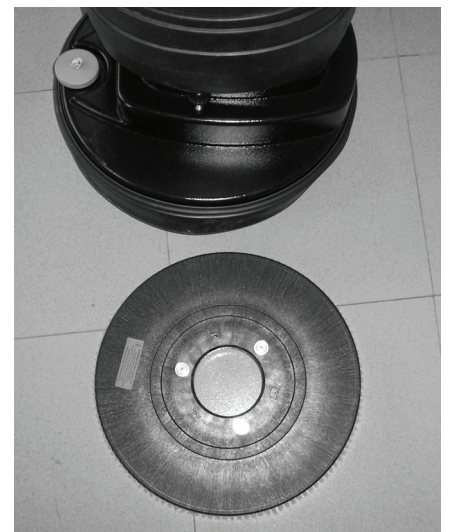
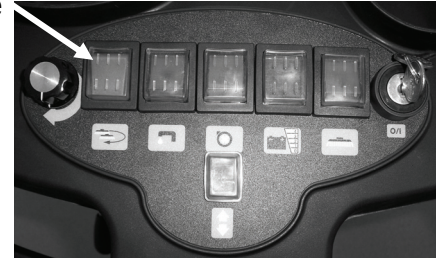
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DAILY MACHINE MAINTENANCE

BRUSH / PAD DRIVER REMOVAL

- 24) Lift the brush base by depressing the foot level at the rear of the machine.
- 25) Turn on brush motor switch.
- 26) Depress handle switch lever to start the brush spinning.
- 27) Release handle switch lever and quickly depress brush release switch. The brush or pad driver will release and drop to the floor.
- 28) Pull machine backwards to access brush or pad driver.
- 29) Rinse the brush or pad driver with clear water.

Brush
Release
Switch





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WEEKLY MACHINE MAINTENANCE

CLEANING THE SQUEEGEE HOSE

To obtain the best drying results, keep the squeegee hose clean. To clean the squeegee hose it is necessary to:

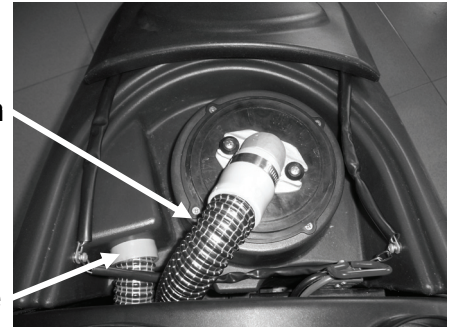
- 1) Take off the vacuum hose from its vacuum port on the squeegee.
- 2) Remove the other end of the vacuum hose from the recovery tank.
- 3) Wash the inner part of the hose with clean water.
- 4) Reassemble.



WARNING: Do not wash the hose that goes from the vacuum motor to the vacuum cover.

Do Not Wash Vacuum Cover Hose

Wash Squeegee Hose



SOLUTION TANK CLEANING

- 5) Remove the fill cap from the solution tank.
- 6) Rinse with clear water.
- 7) Remove the solution tank drain hose and cap at rear of machine and empty the solution tank.



WARNING: Use gloves for protection from contact with dangerous solution.



Solution Tank Fill Opening

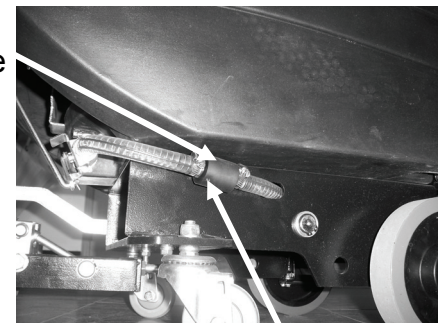
IN-LINE FILTER CLEANING

- 8) Drain solution tank.
- 9) Turn off solenoid valve.
- 10) Loosen set screw on in-line filter but do not remove.
- 11) Pull rear hose rearward and separate in-line filter into 2 pieces.
- 12) Remove the filter element and clean with clear water.
- 13) Reassemble.



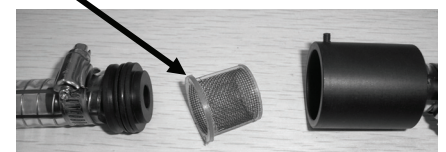
WARNING: Use gloves for protection from contact with dangerous solution.

In-Line Filter



Set Screw

Filter Element

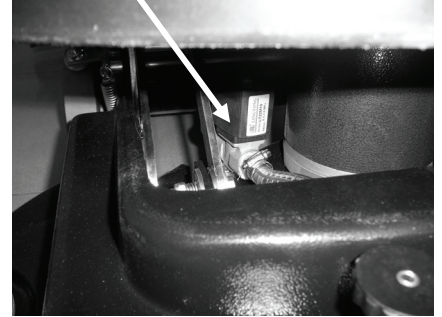




PACIFIC WATER SOLENOID MAINTENANCE

In the event that the water solenoid begins to leak when turned off debris must be cleared at the valve seat.

Water
Solenoid



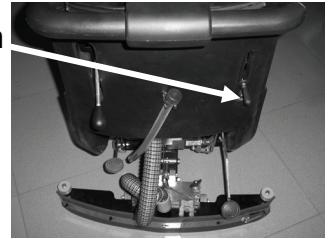


PACIFIC TROUBLE SHOOTING GUIDE

1) INSUFFICIENT WATER TO THE BRUSHES

- a) Make sure the solution flow control valve is open.
- b) Confirm that there is water in the solution tank.
- c) Make sure solution dispensing tubes are not clogged or obstructed.

Solution
Flow
Control
Lever



2) THE MACHINE DOES NOT CLEAN SATISFACTORILY

- a) Check the condition of the brush or pad and replace them if necessary.
- b) The brush should be replaced when the bristles reach a length of 5/8 inches (15mm).

3) THE SQUEEGEE DOES NOT DRY THE FLOOR WELL

- a) Check that the squeegee blades are clean.
- b) Adjust the inclination of the squeegee.
- c) Confirm the vacuum hose is correctly fitted into its port in the recovery tank and free from obstructions.
- d) Replace the squeegee blades if worn.
- e) Check that the vacuum motor switch is on.
- f) Check the squeegee height adjustment (see "MACHINE PREPARATION" section).

4) EXCESSIVE FOAM PRODUCTION

- a) Check that a low foaming detergent has been used. If required, add a small quantity of defoamer liquid to the recovery tank. More foam is generated when a floor is lightly soiled. Use less detergent if this is the case.



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Drawing 1			
PART NUMBER	DESCRIPTION & SPECIFICATION	QTY	NOTE
841102	Wheel Bushing	1	
841107	Bushing	2	
841109	Bushing	1	
841307	Brush Deck Base Weldment	1	EPOXY PAINT
842003	Hose Clamp	3	SS
842309	Base Cover	1	
843302	Fitting Barbed	3	
845004	Key - Motor Shaft	1	
845005	Knob	1	
845116	Brush Base Dual Lift Link	1	EPOXY PAINT
845203	Brush Motor 560 Watt	1	
845604	Solenoid Valve Mount	1	ZINC
845606	Motor Mount Support Weldment	1	EPOXY PAINT
846906	Motor Pulley	1	ZINC
848307	Spring	1	ZINC
848308	Spring	1	ZINC
848310	Spring	1	ZINC
848504	Belt Tension Support Weldment	1	EPOXY PAINT
849009	Tubing	1	
849401	Valve Solenoid	1	
849701	Wheel	1	
849802	Special Washer	1	
863606	20B Splash Guard - Blue	1	
880540	Adjuster Screw M6x40	1	ZINC
880541	Adjuster	1	ZINC
880952	Preteus20B Carbon Brush	4	
880960	20 Inch Brush	1	
881140	Bushing	2	
881141	Bushing	1	ZINC
882131	Clip Guard	8	
885046	Knob	1	
886940	Brush Pulley	1	
887740	Brush Shaft	1	ZINC
888240	20B Brush Shaft Spacer	1	ZINC
888241	Bearing Spacer	1	ZINC
888340	Spring	1	ZINC
888341	Spring	1	ZINC
888342	Spring	1	ZINC
902031	Bearing	2	
902032	Bearing	3	
903016	Belt	1	
920033	M4 Hexagon Lock Nut	8	
920649	Hex Nut M8 Zinc	2	
920650	Hex Nut M12 Zinc	2	
920653	M6 Nyloc Hex Nut Zinc	2	
924033	NyLoc Hex Nut M8 Zinc	3	
924040	Jam Hex M24 Zinc	1	
924063	Hex Nut M6 Zinc	2	
924078	Hex Jam Nut M8 Zinc	1	
924079	Clip Nut M6 Zinc	1	
964083	Hex Bolt M8x30 Zinc	1	
964086	Hex Bolt M8X22 Zinc	2	
964093	Carage Bolt M8X45 Zinc	1	
964103	Hex Bolt-Full M8x45 Zinc	1	
964116	Hex Bolt M6x20 Zinc	6	
964180	Hex Bolt M6x85 Zinc	1	
964193	Oval HD Screw M4x16 Zinc	8	
964239	Hex Bolt M8x25 Zinc	3	
964400	Flat Head Soc Hex Screw M6x16 Zinc	1	
964423	Hex Bolt M6X12 Zinc	2	
964425	Flat Head Soc Torx Screw M6x30 SS	1	
964426	Set Screw M6x10 Zinc	1	
964444	Flat Head Soc Hex Screw M8x55 Zinc	1	
964446	Soc Flat Head Screw M6x25 SS	1	
980050	Flat Washer M24 Zinc	1	
980069	Lock Washer M8 Zinc	5	
980620	Special Washer	1	
980665	M6 Flat Washer Zinc	9	
980671	M6 Washer Flat L Zinc	2	
980672	M6 Lock Washer Zinc	6	
980679	M8 Washer Flat Zinc	2	
980681	Washer M4 Flat Zinc	8	
980684	M8 Washers Flat L Zinc	9	
980701	M16 Flat Washer Zinc	2	



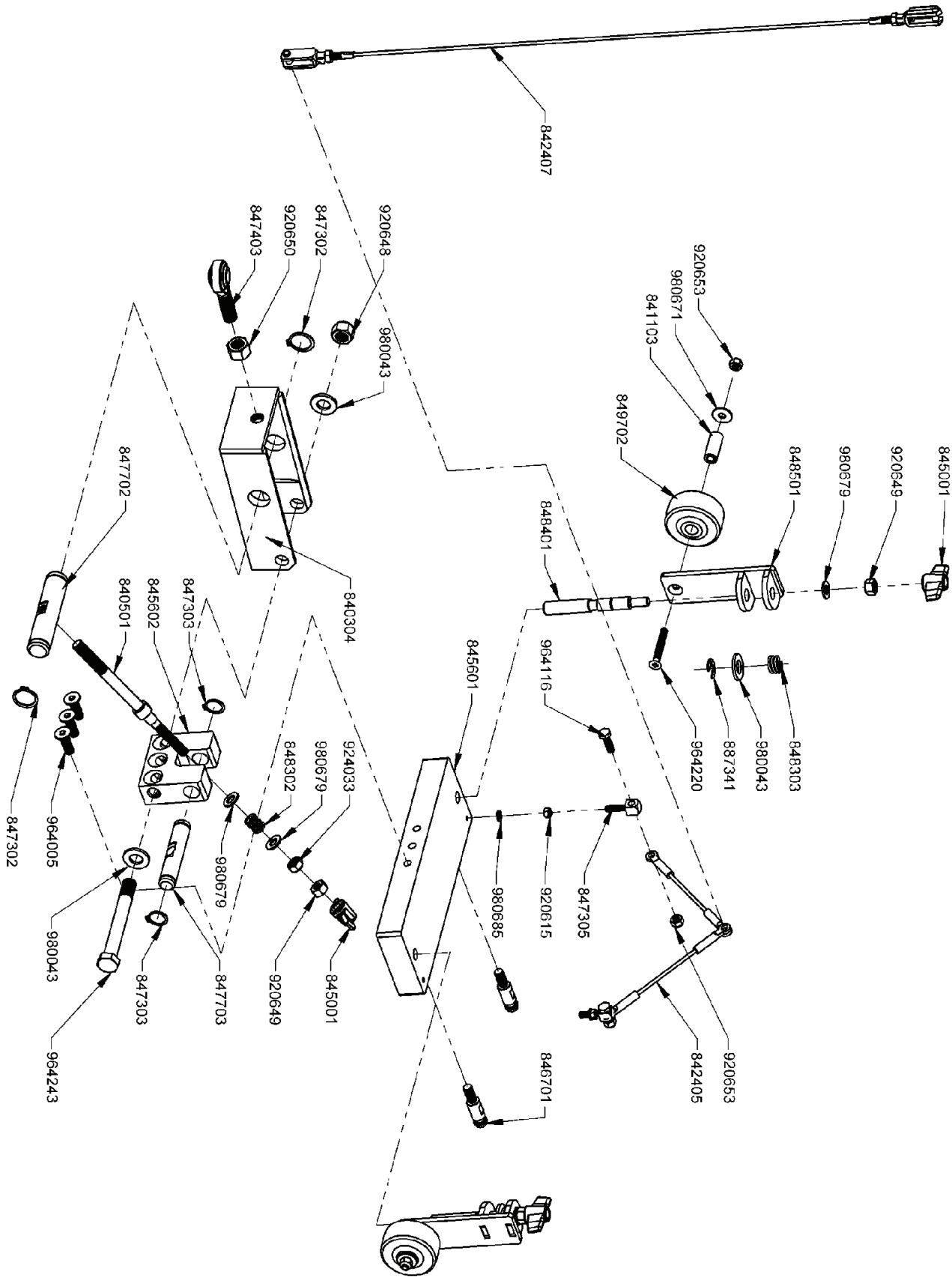
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Drawing 2			
PART NUMBER	DESCRIPTION & SPECIFICATION	QTY	NOTE
840307	Brush Desk Lift Arm Weldment ASM	1	
840308	Brake Lever Arm Weldment	1	
840309	Brush Deck Idle Arm Weldment	1	
841106	Rubber Bushing	2	
841108	Bushing	2	
842003	Hose Clamp	2	
842008	Z20-Z26 Clamp Bar	1	
842306	Pedal Cover	1	
842311	Pedal Cover - Brake	1	
842701	Metal Disc	2	
843203	Z20-Z26 Main Frame Weldment	1	
843314	In Line Filter Outer Housing	1	
843315	In Line Filter Inner Housing	1	
843316	In Line Filter Element	1	
843603	Z20-Z26 Splash Guard	1	
843801	Grommet	1	
845117	Brake Lever Arm Weldment	1	
845118	Brake Latch	1	
845205	Tranction Motor 24VDC 400 Watt	1	
845801	O-Ring 21.2x2.65	1	
845902	Brake Pad	2	
846407	Traction Motor Retaining Plate	2	
847001	Brush Lift - Pivot Block	6	
847002	Brush Lift - Pivot Block	4	
847302	Retaining Ring 20mm x 1.2mm THK	1	
847407	Brake Screw Rod	1	
847407	Brake Screw Rod	1	
848207	Switch Spacer	2	
848208	Pivot Block Spacer	1	
848209	Spacer	2	
848302	SPRING	1	
848309	Brake Return Spring	1	
849005	Tubing	1	
849006	Tubing	1	
849703	Castor	2	
849705	Main Wheel	2	
911529	Microswitch	1	
920648	M12 Nyloc Hex Nut Zinc	3	
920649	Hex Nut M8 Zinc	6	
920653	M6 Nyloc Hex Nut Zinc	14	
924032	M5 Nyloc Hex Nut Zinc	8	
924033	NyLoc Hex Nut M8 Zinc	5	
924043	Nyloc Hex Nut M3 Zinc	2	
924063	Hex Nut M6 Zinc	2	
964007	Hex Bolt M8x40 Zinc	1	
964101	Pan HD Screw M3x30 Zinc	2	
964116	Hex Bolt M6x20 Zinc	2	
964176	Hex Bolt M6x30 Zinc	2	
964182	Screw M4x10 Pan Head Zinc	4	
964186	Hex Bolt-Full THD M8X20	2	
964209	Hex Bolt M6x16 Zinc	4	
964225	Hex Bolt M5X20 Zinc	8	
964230	Hex Bolt M12x65 Zinc	1	
964335	Hex Bolt M5X16 Zinc		
964400	Flat Head Soc Hex Screw M6x16 Zinc	2	
964428	Hex Bolt M6x60 Zinc	4	
964429	Hex Bolt M6x50 Zinc	6	
964437	Screw - SHCS M8x40 Zinc	2	
964442	Slotted Set Screw Cone Point M3x6	1	
980043	Washer Flat M12	5	
980058	Washer Star Lock M8	2	
980503	M8 Washer XL Flat Zinc	2	
980665	M6 Flat Washer Zinc	24	
980671	M6 Washer Flat L Zinc	4	
980672	M6 Lock Washer Zinc	2	
980676	M8 Washer - Plastic	2	
980679	M8 Washer Flat Zinc	8	
980684	M8 Washers Flat L Zinc	1	
980685	M5 Washer Flat Zinc	16	
980706	M3 Flat Washer-L Zinc	2	
74610004	Brake Cable Fork	2	
74620005	Brake Cable Retaining Pin	2	



Squeegee Arm Assembly

Drawing 3





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Drawing 3			
PART NUMBER	DESCRIPTION & SPECIFICATION	QTY	NOTE
840304	Squeegee Link Arm Weldment	1	EPOXY PAINT
840501	Squeegee Adjuster Bolt ASM	1	ZINC
841103	Wheel Bushing	2	
842405	Squeegee Lift Cable	2	
842407	Squeegee Lift Cable	1	
845001	Adjustment Knob	3	
845601	Squeegee Mount Base	1	EPOXY PAINT
845602	Squeegee Mount Base Pivot	1	ZINC
846701	Squeegee Attachment Pin	2	ZINC
847302	Retaining Ring 20mm x 1.2mm THK	2	
847303	Retaining Ring 15mm x 1.0mm THK	2	
847305	Squeegee Lift Ring	2	ZINC
847403	Rod End Male M12 Zinc	1	
847702	Squeegee Adjuster Front Shaft	1	ZINC
847703	Squeegee Adjuster Rear Shaft	1	ZINC
848302	SPRING	1	ZINC
848303	Spring - Squeegee Adjust	2	ZINC
848401	Squeegee Wheel Adjusting Stud	2	
848501	Wheel Strut Weldment	2	ZINC
849702	Wheel	2	
887341	E-Ring 9 mm ID	2	
920615	Hex Nut M5 Zinc	2	
920648	M12 Nyloc Hex Nut Zinc	1	
920649	Hex Nut M8 Zinc	3	
920650	Hex Nut M12 Zinc	1	
920653	M6 Nyloc Hex Nut Zinc	4	
924033	NyLoc Hex Nut M8 Zinc	1	
964005	Flat Head Soc Hex Screw Full Thd M8X25	3	
964116	Hex Bolt M6x20 Zinc	2	
964220	M6x45 Flat Hd Phil Zinc	2	
964243	Hex Bolt M12x100 Lg Zinc	1	
980043	Washer Flat M12	4	
980671	M6 Washer Flat L Zinc	2	
980679	M8 Washer Flat Zinc	4	
980685	M5 Washer Flat Zinc	2	



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Drawing 4			
PART NUMBER	DESCRIPTION & SPECIFICATION	QTY	NOTE
840705	Squeegee Blade Front	1	
840706	Squeegee Blade Rear	1	
841304	Squeegee Attachment Block	2	ZINC
842010	Band Clamp-Front	1	SS
842011	Band Clamp-Rear	1	SS
843204	Z20B Squeegee Frame Weldment	1	EPOXY PAINT
843312	Filler - Z20 Squeegee	2	
845104	Latch ASM	2	ZINC
845105	Squeegee Attachment Block Latch	2	ZINC
881145	Wheel Bushing	2	
889742	Wheel 45 Dia	2	
920649	Hex Nut M8 Zinc	2	
924033	NyLoc Hex Nut M8 Zinc	2	
925009	Roll Pin M5.5x12 SS	1	
930012	REVIT M4x8 Lg Oval Head Semi-Tubular	4	
964004	Hex Set Screw M6X8	2	
964103	Hex Bolt-Full M8x45 Zinc	2	
964209	Hex Bolt M6x16 Zinc	2	
964232	Hex Bolt M6x25 Zinc	4	
980665	M6 Flat Washer Zinc	6	
980672	M6 Lock Washer Zinc	4	
980679	M8 Washer Flat Zinc	4	
980681	Washer M4 Flat Zinc	4	
980684	M8 Washers Flat L Zinc	2	



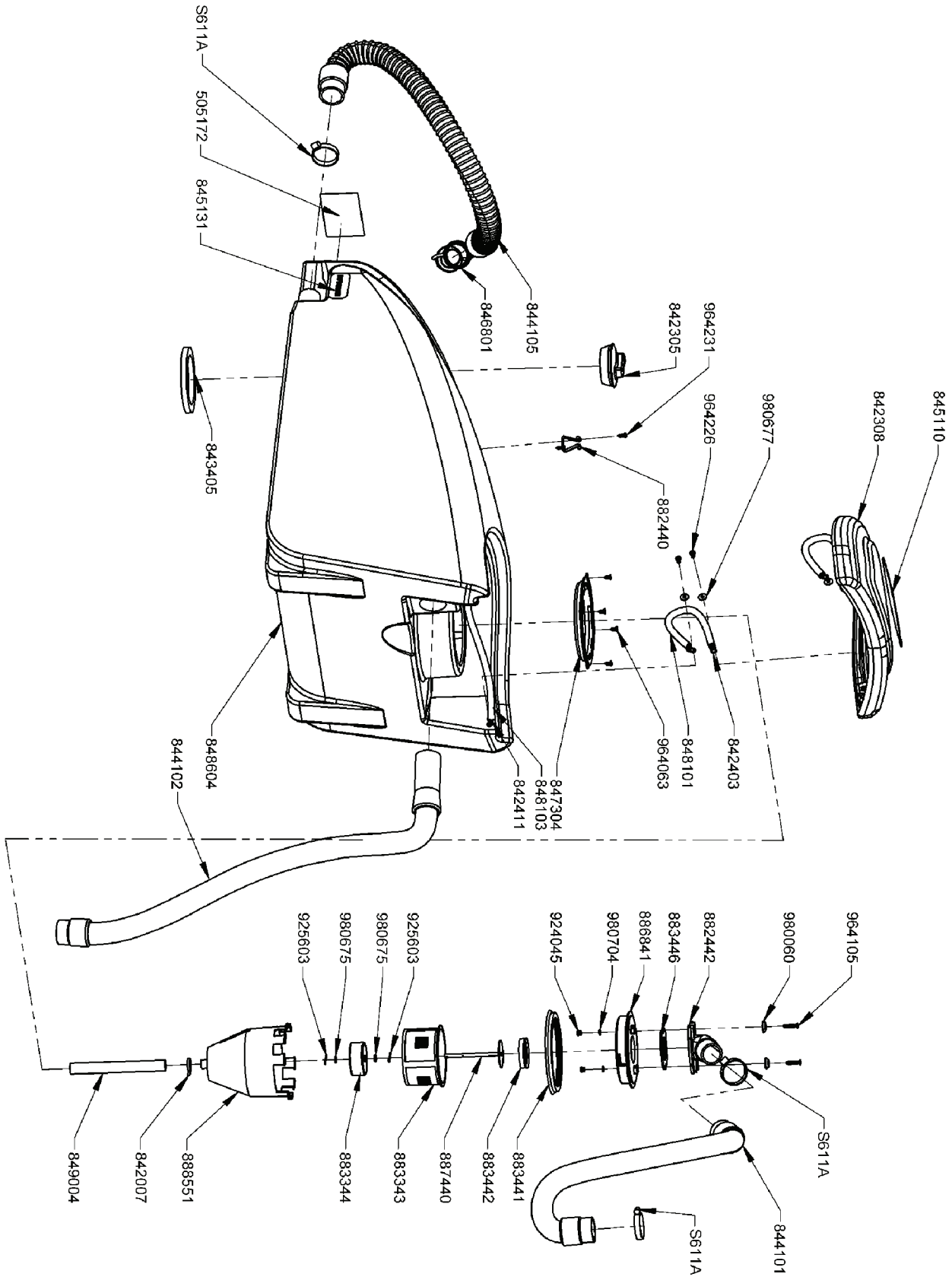
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Drawing 5			
PART NUMBER	DESCRIPTION & SPECIFICATION	QTY	NOTE
841300	Rear Battery Bracket	1	ZINC
841303	Side Battery Bracket	1	ZINC
842003	Hose Clamp	2	SS
842705	Sound Deadener	1	
843308	Fitting Barbed	1	
843309	Fitting Barbed	1	
843310	Filter Basket	1	
843401	Battery Plastic Gasket	1	
843402	Side Battery Gasket	1	
843404	Conical Tank Gasket	1	
844702	Fitting	1	
845106	Brush Deck Lift Latch	1	EPOXY PAINT
845111	Z Series Water Control Label	1	
845113	Z Series Squeegee Lift Label	1	
845125	Lever - Valve	1	ZINC
846406	Plate Wire Retaining	3	
846603	Water Valve Limit Plate	1	ZINC
847406	Connecting Rod	1	ZINC
848302	Spring	1	ZINC
848603	Z20-Z26 Solution Tank	1	EPOXY PAINT
849008	Drain Tubing - Solution Tank	1	
849402	Valve	1	
882440	Hook	1	CHROMATE
885044	Knob	1	
886852	Cap	1	
920615	Hex Nut M5 Zinc	1	
924051	M5 Retaining Nut	1	ZINC
925008	Cotter Pin M2x10	1	SS
964127	Screw M4X8 Pan Head Zinc	1	
964209	Hex Bolt M6x16 Zinc	2	
964224	M5.5X16 Pan Head Plastite Screw	4	
964228	M3 x9.5 Pan Head Plastite Screw	6	
964231	ST4.2X13 Pan HD PL Zinc	2	
964332	Hex Bolt M8x80 Zinc	4	
964398	Hex Bolt-Full THD M6x25 SS	1	
980060	Special Washer	1	
980504	M6x30 OD Washer Flat Plastic	2	
980665	M6 Flat Washer Zinc	2	
980671	M6 Washer Flat L Zinc	4	
980672	M6 Lock Washer Zinc	2	
980679	M8 Washer Flat Zinc	1	
980680	Lock Washer M4 Zinc	1	
980682	M3 Washer Flat Zinc	6	
980684	M8 Washers Flat L Zinc	4	
980685	M5 Washer Flat Zinc	1	
980702	M4 Large Flat Washer Zinc	1	



Recovery Tank Assembly

Drawing 6





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Drawing 6			
PART NUMBER	DESCRIPTION & SPECIFICATION	QTY	NOTE
505172	Dolphin Dome Label-Large	1	
842007	Hose Clamp	1	
842305	Solution Tank Cover	1	
842308	Z20-Z26 Recovery Tank Cover	1	
842403	Chain	2	
842411	Chains For Lift	1	
843405	Tank Gasket	1	
844101	Z210 Recovery Tank Vacuum Hose	1	
844102	Z210 Squeegee Vacuum Hose	1	
844103	Z20-Z26 Drain Hose	1	
845110	Z Series Recovery Tank Cover Label	1	
845131	Lift Label	1	
846801	Plug - Solution Tank Fill	1	
847304	Ring - Filter Holder	1	
848101	Sleevee	2	
848103	Sleeve For Lift	1	
848604	Z20-Z26 Recovery Tank	1	EPOXY PAINT
849004	Tubing	1	
882440	Hook	1	CHROMATE
882442	Vacuum Outlet Port	1	
883343	Filter Basket	1	
883344	Float	1	
883441	Gasket	1	
883442	Gasket	1	
883446	Gasket	1	
886841	Filter Cover	1	
887440	Float Rod	1	
888551	Splash Protector	1	
924045	M5 Nyloc Hex Nut Stainless	2	
925603	Cotter Pin M2x20 SS	2	SS
964063	FLHD Screw Ph Drive ST 4.2x13	4	SS
964105	Oval HD PHL Screw M5x25 SS	2	
964226	Screw M5x8 Pan Head Zinc	4	
964231	ST4.2X13 Pan HD PL Zinc	2	
980060	Plastic Washer M5	2	
980675	M6 Flat Washer Stainless	2	
980677	Washer M5 Flat L Zinc	4	
980704	M5 Washer Flat SS	2	
S611A	Hose Clamp 45mm	3	SS



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Drawing 7			
PART NUMBER	DESCRIPTION & SPECIFICATION	QTY	NOTE
840305	Lever Arm Weldment	1	ZINC
840805	Bracket-Weldment	1	EPOXY PAINT
841104	Bushing	2	BRASS
841305	Lever Bracket	1	EPOXY PAINT
842014	Hose Clamp 50mm	1	SS
842702	Vacuum Motor Sound Deadener	1	
842703	Vacuum Motor Sound Deadener	1	
842704	Sound Deadener	1	
843801	Grommet	1	
843901	Connector Handle	1	
844104	Vacuum Exhaust Hose	1	
845002	Lever Arm Knob	1	ZINC
845202	24VDC Vacuum Motor - SIX	1	
845603	Muffler	1	
847405	Rod - Connecting	1	ZINC
911441	Connector Male 50A	1	
911442	Connector Female 50A	1	
911531	Hose Clamp	1	
920033	M4 Hexagon Lock Nut	4	ZINC
920653	M6 Nyloc Hex Nut Zinc	6	ZINC
924063	Hex Nut M6 Zinc	4	ZINC
962332	ST M6.3X22 Pan Head Zinc	2	ZINC
964116	Hex Bolt M6x20 Zinc	3	ZINC
964176	Hex Bolt M6X30 Zinc	2	ZINC
964421	Screw M4x25 Pan HD PL Zinc	2	ZINC
964422	Screw M4x20 Pan HD PL Zinc	2	ZINC
964423	Hex Bolt M6X12 Zinc	5	ZINC
980501	M6x22 OD Washer Flat Zinc	2	ZINC
980665	M6 Flat Washer Zinc	18	ZINC
980671	M6 Washer Flat L Zinc	2	ZINC
980672	M6 Lock Washer Zinc	6	ZINC
980681	Washer M4 Flat Zinc	4	ZINC



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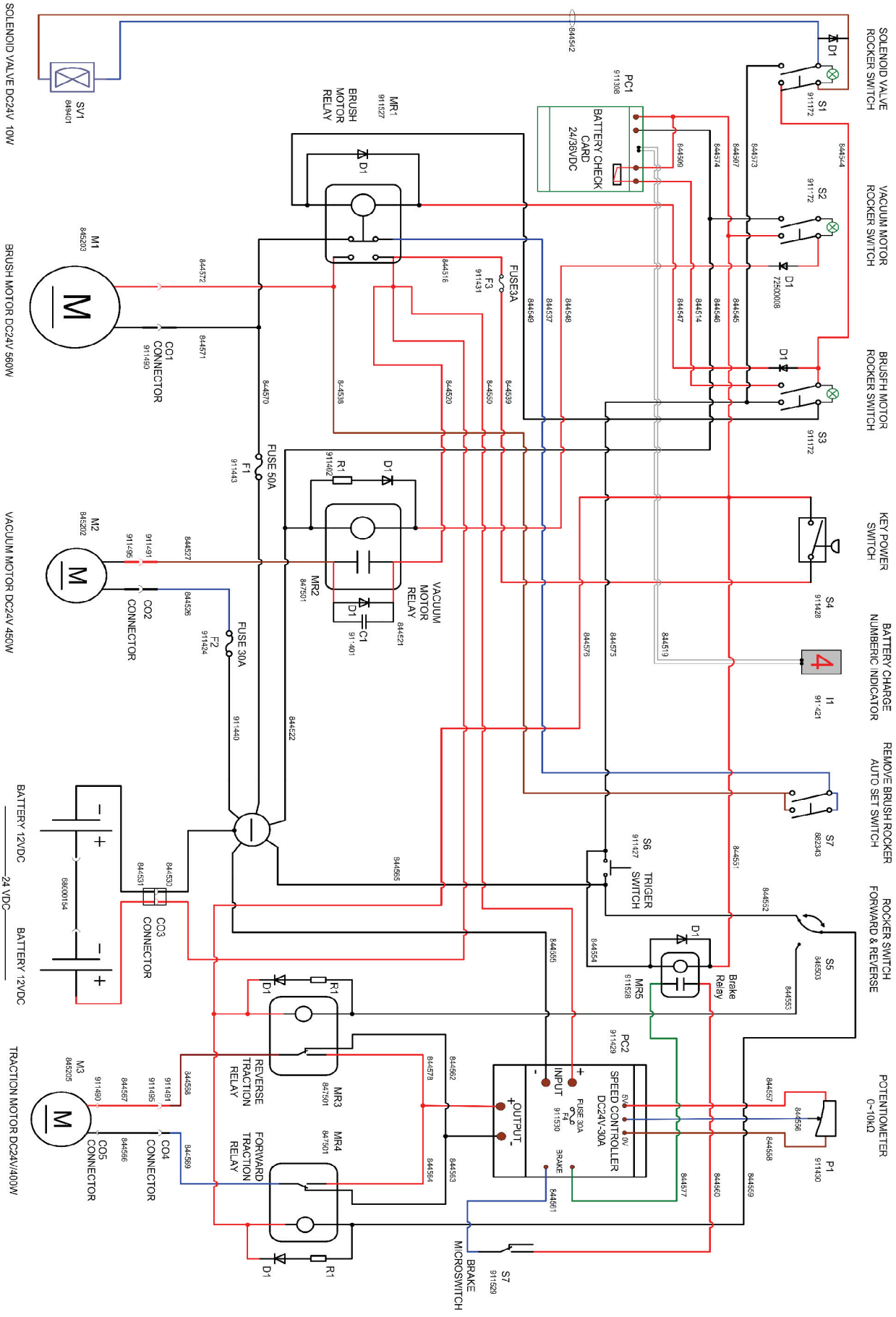
Drawing 8			
PART NUMBER	DESCRIPTION & SPECIFICATION	QTY	NOTE
841306	Bezel - Rocker Switch	5	
842301	Cover Upper Switch Box	1	
842302	Cover Lower Switch Box	1	
842307	Cover - Rocker Switch	5	
842310	Cover - Small Rocker Switch	1	
843801	Grommet	1	
844001	Fuse Holder	1	
845101	Scrubber Lever - Switch Box	2	
845122	Switch Box Latch	2	
845124	Z20BT Switch Box Label	1	
847501	Traction & Vacuum Motor Relay	3	
848503	Rocker Switch Forward - Reverse	1	
882343	Yellow Switch	1	
911172	Rocker Switch Green	3	
911308	Battery Check Card	1	
911421	Battery Charge Numeric Indicator	1	
911424	Fuse 30Amp	1	
911427	Trigger Switch	1	
911428	Key Switch	1	
911429	Speed Controller	1	
911430	Potentiometer	1	
911431	Fuse 3Amp	1	
911440	Jumper Wire	1	
911443	Fuse 50Amp	1	
911527	Brush Motor Relay	1	
911528	Brake Relay	1	
911530	Fuse 30Amp for Speed Controller	1	
920615	Hex Nut M5 Zinc	12	
924081	Hex Nut M2 Zinc	8	
964182	Screw M4x10 Pan Head Zinc	2	
964228	M3 x9.5 Pan Head Plastite Screw	16	
964229	M6.0x32 Pan Head Plastite Screw	2	
964237	Set Screw Socket M5X30 Zinc	4	
964238	Plastite Screw M6x45 Pan HD PL Zinc	2	
964436	Flat HD PHL Screw M2x8 Zinc	8	
980043	Washer Flat M12	2	
980064	M10 Washer Flat Zinc	1	
980502	M5 x 15OD Flat Washer Zinc	8	
980685	M5 Washer Flat Zinc	8	
980687	Special Washer	5	
980703	M2 Flat Washer Zinc	8	
980705	Spring Lock Washer M2 Zinc	8	



Electrical Schematic

Drawing 9

Z20T Electrical Schematic



- SOLENOID VALVE ROCKER SWITCH
- VACUUM MOTOR ROCKER SWITCH
- BRUSH MOTOR ROCKER SWITCH
- KEY POWER SWITCH
- BATTERY CHARGE NUMBER INDICATOR
- REMOVE BRUSH ROCKER AUTO SET SWITCH
- FORWARD & REVERSE ROCKER SWITCH
- POTENTIOMETER (0-10KΩ)



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Drawing 9

PART NUMBER	DESCRIPTION & SPECIFICATION	QTY	NOTE
844507	Wire Harness	1	
844509	Wire Harness	1	
844514	Wire Harness	1	
844518	Wire Harness	1	
844519	Wire Harness	1	
844520	Wire Harness	1	
844521	Wire Harness	1	
844522	Wire Harness	1	
844526	Wire Harness	1	
844527	Wire Harness	1	
844530	2 Cables black-red and connector 50A	1	
844531	2 Cables black-red and connector 50A	1	
844537	Wire Harness	1	
844538	Wire Harness	1	
844539	Wire Harness	1	
844542	Wire Harness	1	
844544	Wire Harness	1	
844545	Wire Harness	1	
844546	Wire Harness	1	
844547	Wire Harness	1	
844548	Wire Harness	1	
844549	Wire Harness	1	
844550	Wire Harness	1	
844551	Wire Harness	1	
844552	Wire Harness	1	
844553	Wire Harness	1	
844554	Wire Harness	1	
844555	Wire Harness	1	
844556	Wire Harness	1	
844557	Wire Harness	1	
844558	Wire Harness	1	
844559	Wire Harness	1	
844560	Wire Harness	1	
844561	Wire Harness	1	
844562	Wire Harness	1	
844563	Wire Harness	1	
844564	Wire Harness	1	
844565	Wire Harness	1	
844566	Wire Harness	1	
844567	Wire Harness	1	
844568	Wire Harness	1	
844569	Wire Harness	1	
844570	Wire Harness	1	
844571	Wire Harness	1	
844572	Wire Harness	1	
844573	Wire Harness	1	
844574	Wire Harness	1	
844575	Wire Harness	1	
844576	Wire Harness	1	
844577	Wire Harness	1	
844578	Wire Harness	1	
845202	24VDC Vacuum Motor - SIX	1	
845203	Brush Motor	1	
845205	Tranction Motor 24VDC 400 Watt	1	
847501	Traction & Vacuum Motor Relay	3	
848503	Rocker Switch Forward - Reverse	1	
849401	Solenoid Valve	1	
882343	Remove Brush Rocker Switch	1	
911172	Rocker Switch Green	3	
911308	Battery Check Card	1	
911401	Capacitor 470nF	1	
911402	Resistor 220 Ohm	3	
911421	Battery Charge Numeric Indicator	1	
911424	Fuse 30Amp	1	
911427	Microswitch	1	
911428	Key Switch	1	
911429	Speed Controller	1	
911430	Potentiometer	1	
911431	Fuse 3Amp	1	
911440	Jumper Wire	1	
911443	Fuse 50Amp	1	
911490	Butt Connector 6.0mm Yellow	4	
911491	Spade Connector Famale Ins 6.3x5.0mm Yellow	4	
911495	Spade Connector male Ins 6.3x5.0mm Yellow	4	
911527	Brush Motor Relay	1	
911528	Brake Relay	1	
911529	Microswitch	1	
911530	Fuse 30Amp for Speed Controller	1	
68000154	Cable Bridge	1	
72500008	Diode IN4007	9	



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WARRANTY POLICY PACIFIC LIMITED WARRANTY

The **Pacific** Z20T has been manufactured, tested and inspected in accordance with specific engineering requirements. This machine is **WARRANTED** to be free from defects in workmanship and materials for periods as follows from the date of purchase.

Ten (10) Years Parts, One (1) Year Labor – Polyethylene Components
Five (5) Years Parts, One (1) Year Labor – Main Frame
Two (2) Years Parts, One (1) Year Labor – Brush Drive Motors
One (1) Year Parts & Labor – All other components unless excluded below

Travel time for warranty repair is authorized for a period of ninety (90) days following the date of sale to the end user, with a maximum of three (3) hours per claim.

This warranty extends to the original user/purchaser and only when used, operated and maintained in accordance with **Pacific** Operating and Maintenance instructions.

This warranty does not apply to certain wear parts and accessories of the machine such as electrical cords, carbon motor brushes, floor brushes, belts, hoses, tools, squeegee blades, etc., nor does it apply to damage or failure caused by improper use, abuse or neglect. Warranty credit of return parts including motors, pumps, etc., is subject to incoming inspection of those items.

To secure repair under this warranty, the following procedure should be taken:

1. After the expiration of the ninety (90) day travel time warranty period, the customer is responsible for warranty travel payment for the inoperative machine or warranted parts must be delivered to the authorized dealer with shipping and delivery charges prepaid. If unable to locate the Dealer, you may contact **Pacific** at the address listed herein for the location of the nearest **Pacific** repair center or agent or for other instructions pertaining to your warranty difficulty.
2. Upon compliance with the above warranty procedure, all warranted repairs will be completed at no additional charge or cost to the user.
3. Only **Pacific** or its authorized dealers and agents may make no charge warranty repairs on this product. All others do so at their own risk.

This warranty limits **Pacific** liability to the repair of the product and/or warranted parts replacement and does not include incidental or consequential damages arising from the use of a **Pacific** machine whether defective or not.

BATTERY WARRANTY

In addition to the terms above, any original equipment **Pacific** battery which becomes unserviceable under normal use within a period of ninety (90) days from the date of sale to the original user will be repaired or replaced with one of equal specification at our option, F.O.B. any authorized **Pacific** sales or service branch, with no charge to user, except transportation costs. After the expiration of the above ninety (90) day period, any battery which fails under normal use will be adjusted to the original user with a new battery of equal specification on a twelve (12) month pro rata basis from the date of purchase. Adjustments will be determined using the then current list price, plus transportation costs. Warranty is rendered null and void if battery is not kept filled to the proper level with **DISTILLED WATER**.

This warranty is in lieu of all other expressed or implied warranties and is extended to the original purchaser/user.