TSG Trouble Shooting Guides™

Tennant 5680 5700

Poor or No Pickup

These are general maintenance guidelines.
Please consult your owner's manual prior to performing any repairs or maintenance on this machine.

Difficulty	Tools	
		Check the tank
Low	No	-Tank is full. Empty tank.
		Check gasket and recovery lid
Low	No	-Check lid is on correctly and not damaged. If damaged, replace lid. **Parts:** Recovery Tank Lid
Low	No	-Check gasket for tight seal or damage. If damaged, replace gasket. **Parts:** Gasket
		Check ball float
Low	No	-Shake or tap to loosen float.
Low	No	-Check for debris, remove debris.
Low	Yes	-Float stuck or damaged. If damaged, replace float and/or cage. **Parts:** Ball Float Float Cage
		Check drain hose
Low	Yes	-Check drain plug for tight seal or damage. If damaged, replace drain plug. **Parts:** Drain Hose with Plug
Low	Yes	-Check hose for cracks or damage. If damaged, replace drain hose. **Parts:** Drain Hose with Plug
		Check for clog in vacuum hose
Low	No	-Remove squeegee hose; Place hand over opening to check for suction. If low suction, remove hose and look for clog. Remove clog.
Low	No	-Check hose for cracks or damage. If damaged, replace hose. **Parts:** Hose
Low	No	-Remove squeegee and flip over.
Low	No	-Check squeegee for debris, remove debris.
		Check squeegee blade wear
Low	Yes	-If worn or damaged, replace blades. **Parts:** Squeegee Blades **Note:** *See Replacing the Squeegee Blades*.
		Check vacuum motor
High	Yes	-Check carbon brushes. Replace if worn. **Parts:** Carbon Brushes
High	Yes	-Replace vacuum motor. **Parts:** Vacuum Motor **Note:** *See Replacing the Vacuum Motor*.

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Replacing the Vacuum Motor

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***Before you begin:** Turn the machine off, empty the recovery tank and disconnect the batteries.

Tools needed:

A. 7/16 inch and 1/2 inch socket wrench.

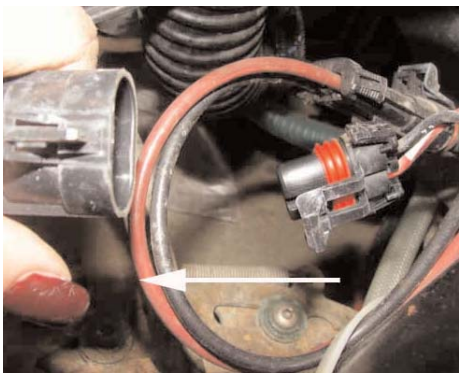
B. Flat tip screwdriver.

1. Open the machine.

2. Locate the vacuum motor compartment.

3. Locate the vacuum motor.

4.Locate the vacuum motor wire connector.



5. Disconnect the plug by pulling it apart.

6. Using a flat tip screwdriver, remove the hose clamp screw and pull to remove the vacuum hose.

7. Using a 7/16 inch socket wrench, remove the 3 bolts from the vacuum motor bracket.

8. Pull the vacuum motor to remove it from the machine.

9. Reverse the entire process to replace the vacuum motor.

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Replacing the Squeegee Blades

These are general maintenance guidelines.
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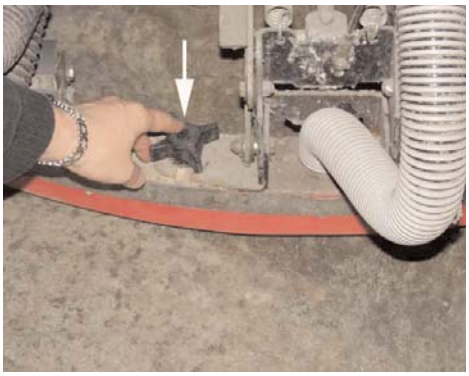
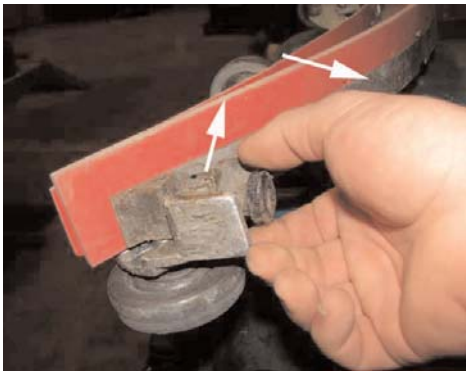
***Before you begin:** Turn the machine off.

1. Remove the vacuum hose from the squeegee assembly.



2. Turn the 2 inside squeegee knobs to remove the squeegee assembly from the machine.

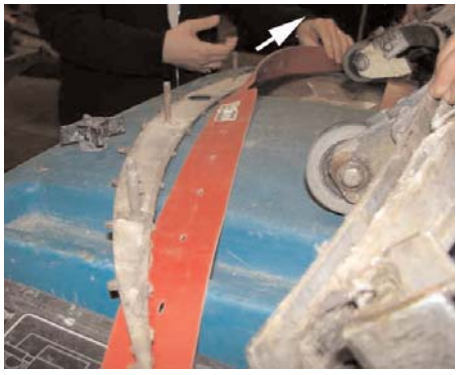


3. Pull the 2 squeegee band knobs to remove the rear band.

4. Pull to remove the rear squeegee band.

5. Remove the rear squeegee blade.

6. Flip the squeegee over and turn the 2 outer squeegee knobs.



7. Pull the top center bracket to remove the front squeegee band and blade.

8. Reverse the entire process to re-install or install new squeegee blades.

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No Solution Flow

These are general maintenance guidelines.
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Difficulty	Tools	
		Check the tank
Low	No	-Tank is empty. Fill tank.
		Solution control knob is in the off position
Low	No	-Turn solution knob to "on" position.
		Check filter, solenoid valve and solution hoses
Low	No	-Check for clog. Remove clog.
Low	No	-Check for wear/cracks in the filter and solution hoses. If damaged, replace. **Note:** See *Cleaning and Replacing the Solution Filter*. **Parts:** Solution Filter Hoses
		Test for solution flow
Low	No	-If no flow, you may have a clog in the tank or lines.
Low	No	-Pull hose from solenoid valve and check for water flowing into solenoid valve.
Low	No	-Pull hose from other side of solenoid valve. Turn solenoid valve to open position and check water flowing through valve.
Low	No	-Pull hose from filter to check for water flow through filter.
Low	No	-Pull hose from solenoid valve to check for water flowing through solenoid valve. **Note:** Engage solenoid valve (by turning brushes on). Make sure solenoid valve is open and machine is on.
		If solenoid valve will not open
Low	Yes	-Put volt meter on 2 wires to solenoid. Turn solution switch on. **Note:** Engage solenoid valve (by turning brushes on). Make sure solenoid valve is open and machine is on.
Low	Yes	-If you get voltage but no water flow past solenoid, the solenoid is bad, replace solenoid. **Parts:** Solenoid
		-No power to solenoid valve call tech for repair to check P & G Control Board.

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Cleaning/Replacing the Solution Filter

These are general maintenance guidelines.
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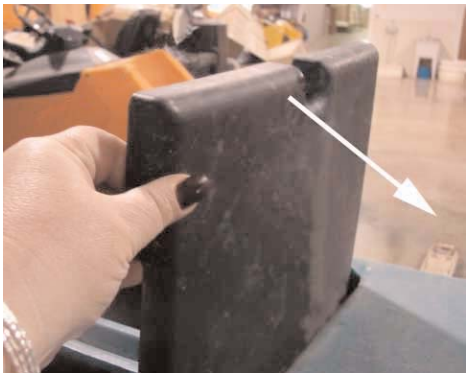
***Before you begin:** Turn the machine off.

1. Locate the solution tank lid.



2. Pull to open the lid.

3. Reach inside the solution tank until you feel the filter. This is in the front of the tank.

4. Pull the filter to remove it. It pops on and off.

5. Remove the filter from the tank.

6. Rinse the filter to remove debris.

7. Reverse the entire process to install a new filter or reinstall the clean filter.

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Drive

These are general maintenance guidelines.
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Difficulty	Tools	
		No Forward/Reverse
Low	No	-Turn the key to power the machine on.
Low	No	-Check to make sure the green light on the dash board lights up.
Low	No	-Check the drive breaker to see if it's popped. If popped, reset.
Low	Yes	-Check for power to drive motor with volt meter by disconnecting the wires located on the back of the machine by the squeegee.
Low	No	-Push handle forward, full should read 36 volts. Backward should be approximately -24 volts. -If accurate current is reaching the drive motor, drive motor is bad. Replace. **Parts:** Drive Motor
High	Yes	-If no power, control board is bad. Replace. **Parts:** Control Board
		No Neutral
Low	Yes	-Remove handle cover, check wire connectors have a tight crimp.
Low	Yes	-If damaged, replace.
Medium	Yes	-Test the switch. If bad, replace. **Parts:** Switch
		Slow Forward/Reverse
Low	Yes	-Check the switch. If bad, replace. **Parts:** Switch
Low	Yes	-Adjust the potentiometer by removing the handle cover. Plug the volt meter into the wires on the drive motor, loosen the screw holding the potentiometer in place. Locate the set screw on the potentiometer and turn it until the brushes shut down or the volt meter reads "0". If bad, replace. **Note:** See *Adjusting the Potentiometer*. **Parts:** Potentiometer
		Runs Intermittently
Low	Yes	-Check wires in handle aren't damaged. If damaged, replace. **Parts:** Wires
Low	Yes	-Check wire connectors for a tight crimp, if bad, replace. **Parts:** Wire Connectors
Low	Yes	-Adjust the potentiometer by removing the paddle cover. Plug the volt meter into the wires on the drive motor, loosen the screw holding the potentiometer in place. Locate the set screw on the potentiometer and turn it until the brushes shut down or the volt meter reads "0". If bad, replace. **Note:** See *Adjusting the Potentiometer*. **Parts:** Potentiometer

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Adjusting the Potentiometer

These are general maintenance guidelines.
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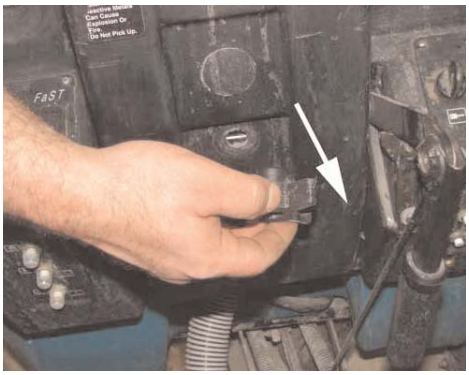
Tools needed:

A. 1/16 inch Allen wrench.

B. 1/2 inch socket wrench.

C. Volt meter.

D. Flat Tip Screwdriver



1. Turn and pull the height adjustment knob to remove it.

2. Using a 1/2 inch socket wrench, remove the 2 bolts from the control panel.

3. Lift the operator control panel up and pull down to expose the potentiometer.

4. Locate the potentiometer.

5. Connect the volt meter leads to the drive motor wires. (red to red and black to black)

6. Using a 1/16 inch Allen wrench, loosen the set screw.

7. Using a small flat tip screwdriver, turn the set screw until the volt meter reads zero, tighten the set screw. You have now found neutral.