



Tennant T5

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	-If recovery tank is full, empty recovery tank.
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Check recovery lid and gasket

Low	No	-Check lid is on correctly and not damaged. If damaged, replace lid.
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Parts: Recovery Tank Lid

Low	No	-Check gasket for tight seal or damage. If damaged, replace gasket.
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Parts: Gasket

Check ball float

Low	No	-Check if float is stuck. Shake or tap to loosen float.
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Low	No	-Check for debris. If clogged, remove debris.
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Low	Yes	-Check if float is damaged. If damaged, replace float.
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Parts: Float

Check drain hose

Low	Yes	-Check drain plug for tight seal or damage. If damaged, replace drain plug.
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Parts: Drain Plug

Low	Yes	-Check hose for cracks or damage. If damaged, replace drain hose.
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Parts: Drain Hose with Plug

Check for clog in vacuum hose

Low	No	-Detach squeegee hose from squeegee assembly. Turn vacuum motor on and place hand over hose to check for suction. If low suction, check for clog. Remove any clogs.
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Low	No	-Check hose for cracks or damage. If damaged, replace hose.
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Parts: Hose

Check squeegee blades

Low	No	-Remove squeegee and flip over.
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Low	No	-Check squeegee for debris, remove debris.
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Low	No	-Check if blades are worn or damaged. If blades are worn or damaged, replace blades.
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Parts: Squeegee Blades

Note: See *Replacing the Squeegee Blades*.

Check vacuum motor

High	Yes	-Check carbon brushes. If worn, replace
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Parts: Carbon Brushes

High	Yes	-If no suction or machine is noisy, replace vacuum motor
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Parts: Vacuum Motor

Note: See *Replacing the Vacuum Motor*.



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Replacing the Vacuum Motor

These are general maintenance guidelines.

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

Tools needed:

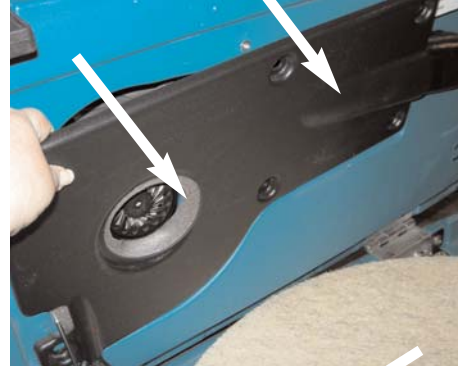


A. Phillips screwdriver.

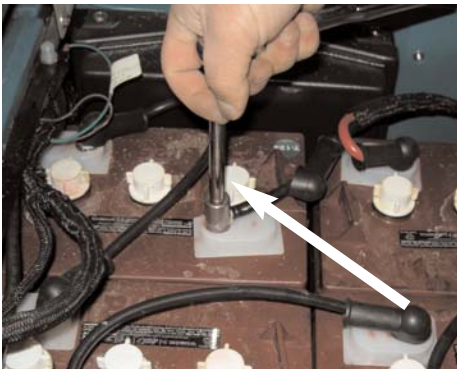
B. Flat tip screwdriver.

C. 9/16mm and 10mm deep well socket wrench.

D. Wire cutters.



6. Pull to remove the vacuum motor cover.



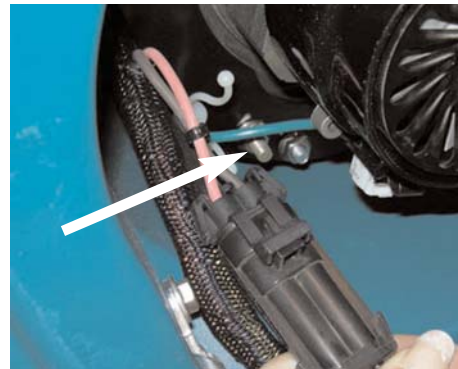
1. Empty the recovery tank.



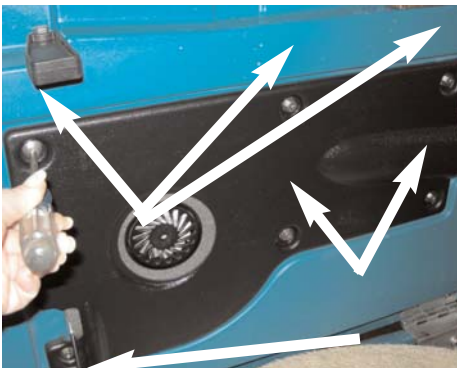
7. Locate the two white wire clamps holding the wires and twist to open them.



3. Using a pad, cardboard or any non-metal material, cover the batteries to protect them.



8. The power supply plug can now be pulled away from the vacuum motor.



4. The vacuum motor is housed under the recovery tank.



9. Pull to disconnect the power supply plug.

5. Using a Phillips screwdriver, remove the six screws from the vacuum motor cover.



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Replacing the Vacuum Motor

These are general maintenance guidelines.

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



10. Using a flat tip screwdriver, remove the screw holding the green ground wire to the vacuum motor.



11. Using a 10mm deep well socket wrench, remove the 6 bolts holding the vacuum motor in place.



12. Pull to remove the vacuum motor.



14. Using wire cutters, cut the plastic tie holding the exhaust hose to the vacuum motor.

15. Pull to remove exhaust hose.

16. Reverse steps 1-15 to install a new vacuum motor.



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Replacing the Squeegee Blades

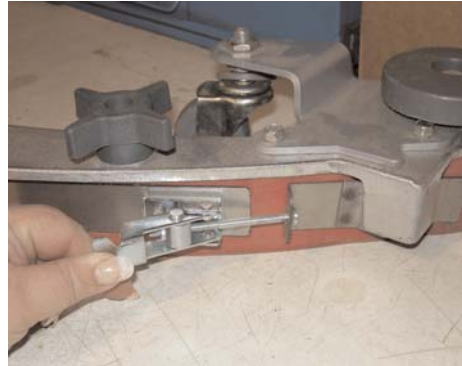
These are general maintenance guidelines.

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

***Before you begin:** Turn the machine off.



1. Lower the squeegee assembly.



5. Pull the rear band latch to loosen the band.



2. Pull to remove the squeegee hose.



6. Pull to remove the rear band.



3. Loosen both knobs on the squeegee assembly.



7. Pull the rear blade to remove it.



4. Pull to remove the squeegee assembly from the machine.



8. Using your finger, gently push the squeegee blade retainer plate to free the front blade.



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Replacing the Squeegee Blades

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***Before you begin:** Turn the machine off.



9. Pull the front blade to remove it.

10. Reverse steps 1-9 to install new blades.



Tennant T5

No Solution Flow

These are general maintenance guidelines.

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Difficulty/Tools

Check the tank

Low	No	-If solution tank is empty, fill solution tank.
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Solution control knob is set too low

Low	No	-Check that the solution control knob is set to release solution.
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Check solution filter and hoses

Low	No	-Check for clog. Remove any clogs.
Low	No	-Check for wear/cracks in the filter and solution hoses. If damaged, replace.

Parts: Solution Filter

Solution Hoses

Note: See *Cleaning and Replacing the Solution Filter*.

Test for solution flow

Low	No	-Pull hose from filter to check for solution flowing through filter.
Low	No	-Pull hose from solenoid valve to check for solution flowing to the solenoid valve.
Low	No	-Pull hose from solenoid valve to check for solution flowing out of solenoid valve.

Note: Engage solenoid valve (by turning brushes on).

If solution doesn't flow through solenoid valve

Low	Yes	-Put volt meter on two wires to solenoid valve. (Red to red, black to black)
Low	Yes	-Engage solenoid valve (by turning brushes on).
High	Yes	-If you get voltage but no water flow past solenoid valve, the solenoid valve is bad, replace solenoid valve.

Parts: Solenoid Valve

High	Yes	-If no voltage to solenoid valve, control board is bad. If bad, replace.
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Parts: 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 and disconnect batteries.



1. Open the machine.



2. Locate the solution tank cover next to the batteries.



3. Pull to remove the solution tank cover.



4. Locate the mushroom filter at the bottom of the solution tank. Pull to remove filter.



5. Run the mushroom filter under water to remove debris.

6. Reverse steps 1-5 to 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 battery meter shows a charge. If low, charge batteries.
Low	No	-Check the drive breaker to see if it's popped. If popped, reset.
Low	Yes	-Check for power to transaxle with volt meter by disconnecting the drive wires located on the back of the machine by the squeegee.
Low	Yes	-Push handle forward, full should read 24 volts on volt meter. Backward should be approximately -18 volts on volt meter.
High	Yes	-If correct voltage reaches transaxle, transaxle is bad. Replace transaxle. Parts: Transaxle
High	Yes	-If correct voltage does not reach transaxle, control board may be bad. If control board is bad, replace. Parts: Control Board

No Neutral

Low	Yes	-Remove control panel cover, check wire connectors have a tight crimp. If damaged, replace. Parts: Wire Connectors
Low	Yes	-Check wires in control panel for damage. If damaged, replace. Parts: Wires

Slow Forward/Reverse

Medium	Yes	-Adjust the potentiometer by removing the control panel cover. Plug the volt meter into the wires on the transaxle, 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".
High	Yes	-If potentiometer is bad, replace potentiometer. Parts: Potentiometer Note: See <i>Adjusting the Potentiometer</i> .

Runs Intermittently

Low	Yes	-Remove control panel cover, check wire connectors have a tight crimp. If damaged, replace. Parts: Wire Connectors
Low	Yes	-Check wires in control panel for damage. If damaged, replace. Parts: Wires
Medium	Yes	-Adjust the potentiometer by removing the control panel cover. Plug the volt meter into the wires that power the transaxle wires. Locate and loosen the screw holding the potentiometer in place. Turn on the brushes, then turn the adjustment set screw on the potentiometer until the brushes shut down or the volt meter reads "0".
High	Yes	-If potentiometer is bad, replace potentiometer. Parts: Potentiometer Note: See <i>Adjusting the Potentiometer</i> .



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Adjusting the Potentiometer

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Tools needed:



A. Phillips screwdriver.

B. Volt meter.

C. 1/16 inch Allen wrench.



5. Using a 1/16 inch Allen wrench, loosen the small set screw and remove white gear wheel.



6. Turn the potentiometer until the volt meter reads zero.



1. Using a Phillips screwdriver, remove the five screws securing the control panels.

2. Pull to remove the control panels.



3. Locate the potentiometer in the top of the control panel.

Note: You will need to remove both panels for better access to the potentiometer.



7. You have now found zero.

8. Reverse steps 1-7 to reassemble machine.



4. Connect the volt meter leads to the drive motor wires.

(Red goes to red and black goes to black).