

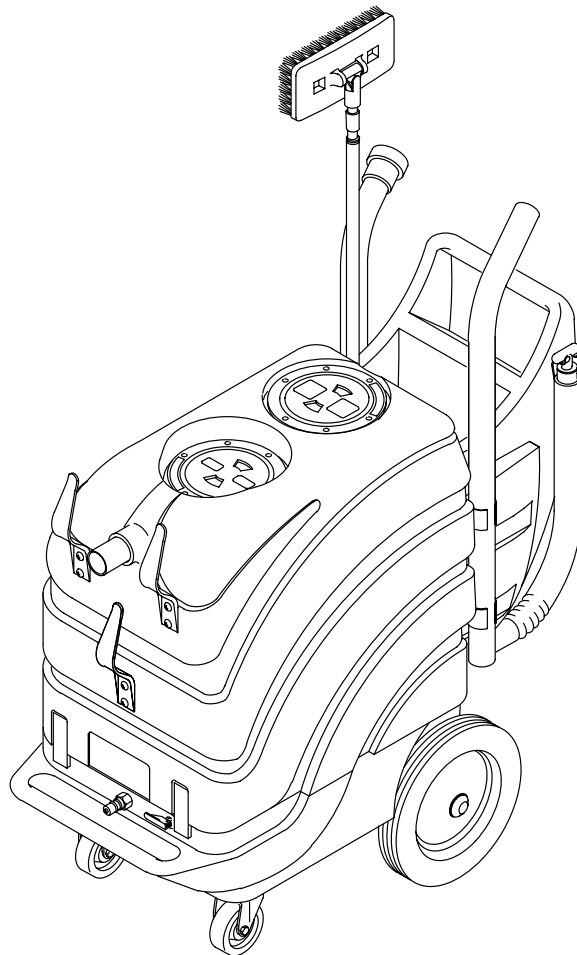


750

All Surface Cleaner

**Model No.:
613627**

Operator Manual **EN**



EN

**613792
Rev. 00 (08-02)**

This manual is furnished with each new 750 model. It provides necessary operation, maintenance instructions and an illustrated parts list.

Read this manual completely and understand the machine before operating or servicing.

Use the illustrated Parts Lists to order parts. Before ordering parts or supplies, be sure to have your machine model number and serial number handy. Parts and supplies may be ordered by phone or mail from any authorized parts and service center, distributor or from any of the manufacturer's subsidiaries.

This machine will provide excellent service. However, the best results will be obtained at minimum costs if:

- The machine is operated with reasonable care.
- The machine is maintained regularly - per the machine care instructions provided.
- The machine is maintained with manufacturer supplied or equivalent parts.

MACHINE DATA

Please fill out at time of installation for future reference.

Model No.- _____

Install. Date - _____

Serial No.- _____

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EC DECLARATION OF CONFORMITY FOR MACHINERY (Directive 89//392/EEC,Annex II, sub A)

EN

TENNANT N.V.

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model: 750 nr.: 613627

- is in conformity with the provisions of the Machinery Directive (Directive 89/392/EEC), as amended, and with national implementing legislation;
- is in conformity with the provisions of the EMC Directive (Directive 89/336/EEC);
- is in conformity with the provisions of the following other EEC directives:
EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3.
- and that the following (parts/clauses of) harmonized standards have been applied:
EN 292-1, EN 292-2, EN 294, EN 349, EN 563, EN 60204-1, EN 60335-1 ...
- the following (parts/clauses of) national technical standards and specifications have been used: NA

TABLE OF CONTENTS

SAFETY PRECAUTIONS	4	OTHER CLEANING USES WITH MACHINE ...	14
GROUNDING INSTRUCTIONS	5	BLOWER HOSE CLEANING	14
SAFETY LABELS	5	CARPET CLEANING (OPTION)	15
MACHINE COMPONENTS	6	MACHINE MAINTENANCE	16
UNPACKING MACHINE	7	HOUR METER	16
PREPARING MACHINE FOR CLEANING		DAILY MAINTENANCE	16
APPLICATION	7	MONTHLY MAINTENANCE	17
INSTALLING THE LIQUID CLEANING AGENT		QUARTERLY MAINTENANCE	18
(FORMULA 710) CONTAINER	7	ACCESSING INTERNAL COMPONENTS ..	18
FILLING SOLUTION TANK	8	STORING MACHINE	18
CONNECTING POWER CORD TO WALL		STORING MACHINE IN FREEZING	
OUTLET	8	TEMPERATURES	18
CLEANING APPLICATION	9	RECOMMENDED STOCK ITEMS	18
A: PREPARING AREA	9	TROUBLE SHOOTING	19
B: APPLYING CLEANING AGENT		SPECIFICATIONS	20
(FORMULA 710)	9	MACHINE DIMENSIONS	20
C: RINSING AREA	11		
D: BLOW DRYING AND SQUEEGEEING ...	12		
DRAINING TANKS	13		
DRAINING RECOVERY TANK	13		
ELEVATED DRAINING	14		
EMPTYING SOLUTION TANK	14		

SAFETY PRECAUTIONS

This machine is intended for commercial use. It is designed to clean water-resistant surfaces in an indoor environment and is not constructed for any other use. Do not use machine for dry pick-up. Use only recommended cleaning formulas and accessory tools.

All operators must read, understand and practice the following safety precautions.

The following warning alert symbol and the "FOR SAFETY" heading are used throughout this manual as indicated in their description:

 **WARNING:** To warn of hazards or unsafe practices which could result in severe personal injury or death.

FOR SAFETY: To identify actions which must be followed for safe operation of equipment.

Failure to follow these warnings may result in: personal injury, electric shock, electrocution, fire or explosion:

 **WARNING:** Do Not Use Flammable Liquids Or Operate Machine In Or Near Flammable Liquids, Vapors Or Combustible Dusts.

 **WARNING:** Do Not Pick Up Flammable Materials Or Reactive Metals.

 **WARNING:** Do Not Operate With Damaged Power Cord. Do Not Modify Plug. Unplug Power Cord Before Servicing Machine

If the supply cord is damaged or broken, it must be replaced by the manufacturer or it's service agent or a similarly qualified person in order to avoid a hazard.

 **WARNING:** Do Not Use Outdoors. Do Not Expose to Rain. Store Indoors.

The following information signals potentially dangerous conditions to the operator or equipment:

FOR SAFETY:

1. Do not operate machine:

- Unless trained and authorized.
- Unless operator manual is read and understood.
- In flammable or explosive areas.
- Unless safety goggles are worn.

- Unless cord is properly grounded.
- With damaged cord or plug.
- If not in proper operating condition.
- In outdoor areas.
- In standing water.
- With the use of an extension cord.

2. Before operating machine:

- Make sure all safety devices are in place and operate properly.
- Place "WET FLOOR" signs as needed.

3. When using machine:

- Do not run machine over cord.
- Do not pull machine by plug or cord.
- Do not pull cord around sharp edges or corners.
- Do not unplug by pulling on cord.
- Do not stretch cord.
- Do not handle plug with wet hands.
- Follow mixing, handling, and disposal instructions provided on chemical container instructions and MSDS sheets.
- Never point spray gun at a person's face.
- Do not spray solution into electrical outlets, switches, fuse boxes or on electrical appliances.
- Keep cord away from heated surfaces.
- Report machine damage or faulty operation immediately.
- Wear rubber sole traction boots to prevent slipping.

4. Before leaving or servicing machine:

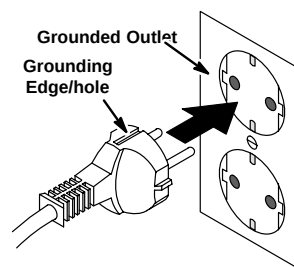
- Turn off machine.
- Unplug cord from wall outlet.

5. When servicing machine:

- Unplug cord from wall outlet.
- Avoid moving parts. Do not wear loose jackets, shirts, or sleeves.
- Use manufacturer supplied or approved replacement parts.

GROUNDING INSTRUCTIONS

Machine must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electrical shock. This machine is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed in accordance with all local codes and ordinances.



SAFETY LABELS

The safety labels appear on the machine in the locations indicated. Replace labels if they become damaged or illegible.

Failure to follow these warning labels may result in: personal injury, electric shock, electrocution, fire or explosion:



FLAMMABLE MATERIALS/ SPILLS LABEL – Located on the recovery tank lid.



WARNING: Do Not Use Flammable Liquids Or Operate Machine In Or Near Flammable Liquids, Vapors Or Combustible Dusts.

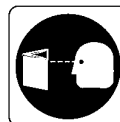


WARNING: Do Not Pick Up Flammable Materials Or Reactive Metals.



FOR SAFETY LABEL – Located on recovery tank lid.

FOR SAFETY: Do not operate machine unless safety goggles are worn.



FOR SAFETY LABEL – Located on dash panel.

FOR SAFETY: Do not operate machine unless operator manual is read and understood.



HAZARDOUS VOLTAGE LABEL – Located on handle housing.



WARNING: Do Not Operate With Damaged Power Cord. Do Not Modify Plug. Unplug Power Cord Before Servicing Machine

If the supply cord is damaged or broken, it must be replaced by the manufacturer or it's service agent or a similarly qualified person in order to avoid a hazard.

MACHINE COMPONENTS



1. Vacuum/Blower ON/OFF Switch
2. Pump ON/OFF Switch
3. Hour Meter
4. Blower Hose Connector
5. 15M Power Cord
6. Accessory Tools and Cleaning Agent Container Compartment
7. Cleaning Agent Injector Hose
8. Two Piece Double Bend Wand
9. Floor Brush
10. Recovery Tank
11. Recovery Tank Drain Hose
12. Solution Tank
13. 12 in. (305mm) Stair Climbing Wheels
14. Vacuum Hose Storage Hooks
15. Vacuum Hose Connector

16. Spray Gun Storage Hook
17. Solution Hose Connection Coupler
18. Cleaning Agent ON/OFF Lever
19. Internal Component Access Latches
20. Solution Tank Fill Hose
21. 7.6 M Vacuum Hose (Black)
22. 7.6 M Blower Hose (Gray)
23. Blower Hose Nozzle
24. Spray Gun and Solution Hose
25. 14 in. (356mm) Squeegee Floor Tool Attachment
26. Glass Squeegee Hand Tool
27. Gulper Tool Vacuum Hose Attachment
28. "Formula 710 Cleaner" Agent (option)
29. "Formula 720 Rinse" Agent (option)
30. Grease Gun for Solution Pump

UNPACKING MACHINE

Carefully check carton for signs of damage. Report damages to carrier immediately.

Check Carton Contents to ensure carton is complete. Contact distributor for missing items.

Carton Contents:

- Machine
- Black Vacuum Hose
- Gray Blower Hose
- Two Piece Double Bend Wand
- Squeegee Tool Attachment
- Glass Squeegee Hand Tool
- Gulper Tool
- Blower Nozzle
- Fill Hose
- Spray Gun, Spray Nozzle and Solution Hose
- Floor Brush Attachment
- Telescoping Wand for Floor Brush
- 3 Metering Tips (bagged separately)
- Injector Tube Cap (Installed on blue tube)
- Grease Gun for Solution Pump Motor

PREPARING MACHINE FOR CLEANING APPLICATION

INSTALLING THE LIQUID CLEANING AGENT (FORMULA 710) CONTAINER

“Formula 710 Multi-Surface Acid Cleaner” agent is specifically designed and recommended for use in this machine. It is formulated to clean soap scum, hard water scale, and soils typically found in restrooms, showers, swimming pool areas, etc. Use only on water-resistant surfaces. To order the “Formula 710 Multi-Surface Acid Cleaner” or an approved substitute, contact your Tennant supplier.

ATTENTION: Use of unapproved or inappropriate chemicals may cause damage to machine and surfaces and could void your warranty

FOR SAFETY: When using machine, follow mixing, handling, and disposal instructions provided on chemical container instructions and Material Safety Data Sheets (MSDS).

1. Remove cap from the blue injector tube. Do not misplace cap (Figure 1). Use cap to prevent injector tube from clogging when machine is not in use.

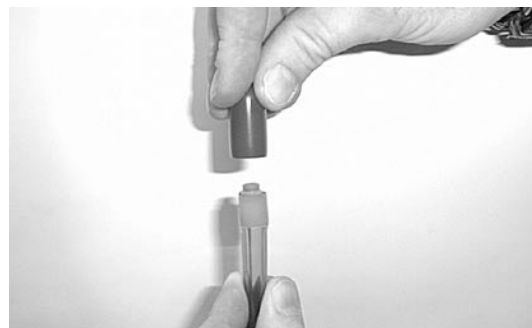


FIG. 1

2. Select the desired metering tip (Tips supplied with machine) and thread tip into the blue injection tube on the machine (Figure 2). Dispensing rates shown are for the “Formula Multi-Surface Acid Cleaner” agent. Substitute agents may have different dispensing rates. The orange tip is factory installed on .

Orange Tip= 15ml./L (2 oz. per gallon) for light cleaning.

Red Tip= 30ml./L (4 oz. per gallon) for medium cleaning.

Blue Tip= 44ml./L (6 oz. per gallon) for heavy cleaning.

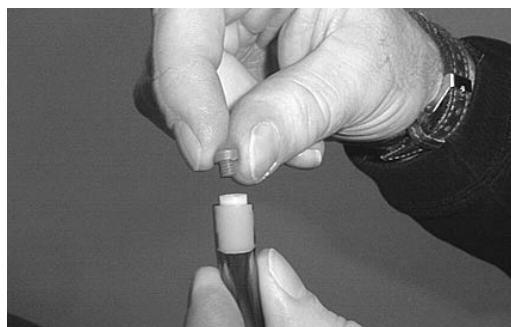


FIG. 2

3. Place the cleaning agent container into the accessory tools/cleaning agent compartment. Remove cap from container and attach blue injector tube cap. Push blue tube to bottom of container (Figure 3).



FIG. 3

ATTENTION: Do not add acid cleaning agent (Formula 710) to the solution tank.

FILLING SOLUTION TANK

1. Remove the front solution tank lid from the machine and pour "Formula 720 Rinse" agent or an approved substitute into the solution tank. Follow the mixing instructions on the bottle (Figure 4).



FIG. 4

"Formula 720 Rinse" agent is specifically designed and recommended for use in this machine. It is intended to be used for rinsing surfaces after cleaning. The "Formula 720 Rinse" agent will reduce water spotting and speed up drying time. To order the "Formula 720 Rinse" agent or an approved substitute, contact your Tennant supplier.

ATTENTION: Use of unapproved or inappropriate chemicals may cause damage to machine and surfaces and could void your warranty

FOR SAFETY: When using machine, follow mixing, handling, and disposal instructions provided on chemical container instructions and Material Safety Data Sheets (MSDS).

⚠ WARNING: Do Not Use Flammable Liquids Or Operate Machine In Or Near Flammable Liquids, Vapors Or Combustible Dusts.

2. Connect the fill-hose (supplied with machine) to the water faucet and fill the solution tank with 57 liters of clean water (Figure 5). If using hot water, do not exceed 60°C.



FIG. 5

3. Replace solution tank lid after filling.

CONNECTING POWER CORD TO WALL OUTLET

1. Connect the power cord into a grounded wall outlet (Figure 6). Use a wall outlet outside the area to be cleaned.

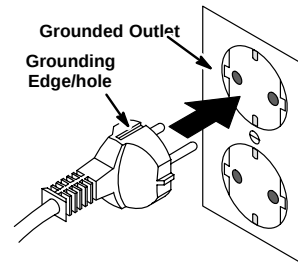


FIG. 6

⚠ WARNING: Do Not Operate With Damaged Power Cord. Do Not Modify Plug. Unplug Power Cord Before Servicing Machine

If the supply cord is damaged or broken, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

FOR SAFETY: Do not operate machine with the use of an extension cord.

CLEANING APPLICATION

FOR SAFETY: Do not operate machine unless operator manual is read and understood.

ATTENTION: The machine is designed to clean water-resistant surfaces only; such as concrete, ceramic tile, quarry tile, glass, sinks, urinals, toilets, restroom partitions, showers, pipes, mirrors and other areas subject to soap, mineral deposits and daily soils.

Cleaning Application is not recommended on painted plaster board/dry wall and wall papered surfaces.

Contact your local distributor for recommended cleaning agents for cleaning kitchens, stair wells, windows, etc.

ATTENTION: Floors should be sealed to prevent water seepage. Inspect all grout lines, seams, corners, etc. for cracks. Repair as needed. We are not responsible for any water damage.

Safety goggles, protective gloves and protective clothing (not supplied) are required while cleaning. Safety goggles must be designed to protect eyes from liquid splash (Figure 7).

FOR SAFETY: Do not operate machine, unless safety goggles are worn.



FIG. 7

A: PREPARING AREA

1. Sweep area of debris.
2. Remove trash containers from room.
3. Remove exposed paper products from room.
4. Dust clean overhead fixtures and vents. The machine is also designed for dust cleaning (See OTHER CLEANING USES WITH MACHINE).

5. Flush all fixtures in restrooms and keep lids open on toilets.
6. Protect all electrical outlets, switches, fuse boxes, and connective devices with waterproof shields.
7. Cover any exposed item that you do not want to get wet.
8. Position machine in doorway to block access to area.
9. Use a door stop to prevent hose damage. Do not close doors on hoses.

FOR SAFETY: Before operating machine, place "WET FLOOR" signs as needed.

B: APPLYING CLEANING AGENT (FORMULA 710)

1. If area is not equipped with a floor drain, connect the black recovery hose at the front of machine, attach gulper tool and place the tool where water may puddle when operating (Figure 8).



FIG. 8

2. Connect the spray gun to solution hose then connect the hose to the coupler at front of the machine (Figure 9).



FIG. 9

- Turn the cleaning agent on/off lever to the on position (I), located at the front of machine (Figure 10).

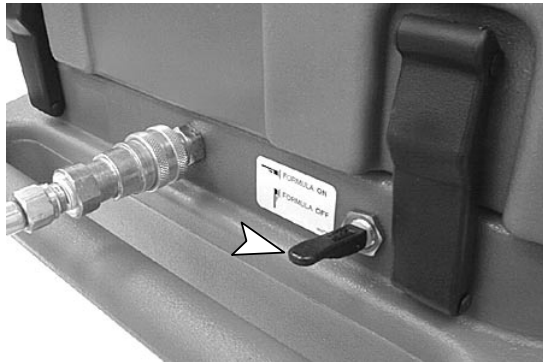


FIG. 10

NOTE: To operate spray gun at LOW PRESSURE without the use of cleaning agent, turn the cleaning agent on/off lever to the (O) position.

- Adjust the gun to low pressure by pushing the spray nozzle outward. Turn the spray nozzle counter-clockwise for a fan spray pattern (Figure 11).



FIG. 11

- Activate the pump switch. Press the vacuum/blower switch towards the vacuum symbol if using the gulper tool (Figure 12).

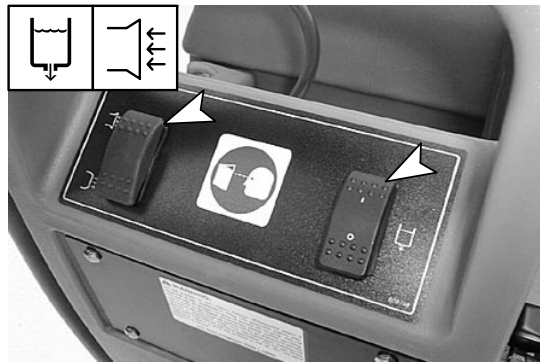


FIG. 12

- Starting at the furthest point in room, begin spraying the entire area from bottom to top working towards the machine. The cleaning agent (Formula 710) may take up to 5 seconds before it starts to inject. After spraying the entire area, turn the machine off and allow the cleaning agent to work for 5–10 minutes (Figure 13).



FIG. 13

NOTE: It may take the pump 5–10 seconds to prime. Nozzle must be set at low pressure in order for pump to prime.

FOR SAFETY: When using machine, do not spray solution into electrical outlets, switches, fuse boxes or on electrical appliances.

NOTE: After applying cleaning agent, turn the cleaning agent on/off lever to the (O) position and rinse the gun of cleaning agent.

- While the cleaning solution is working, use the brush tool to scrub corners, cove base and heavily soiled areas (Figure 14).



FIG. 14

C: RINSING AREA

FOR SAFETY: Do not operate machine unless safety goggles are worn.

NOTE: Use the gulper tool if the area is not equipped with a floor drain.

1. Adjust the spray gun to high pressure by pulling the spray nozzle inward (Figure 15).

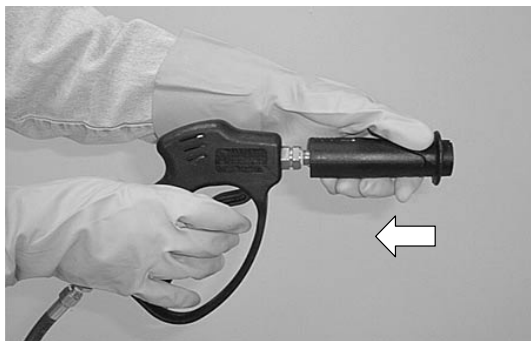


FIG. 15

2. Activate the pump switch. If using the gulper tool, press the vacuum/blower switch towards the vacuum symbol (Figure 16).

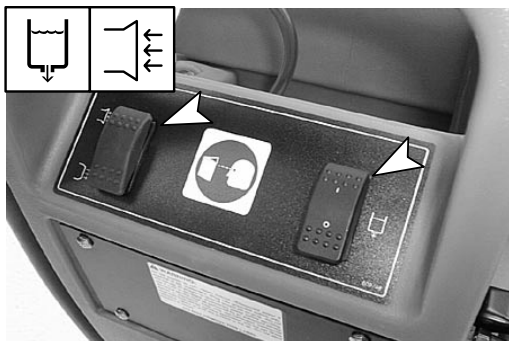


FIG. 16

3. Begin rinsing entire area from top to bottom. Turn the spray nozzle clockwise to pin-point grout lines, and to clean heavily soiled and hard to reach areas (Figure 17).

NOTE: Operating the gun at high pressure will automatically stop injecting cleaning agent.



FIG. 17

FOR SAFETY: When using machine, do not spray solution into electrical outlets, switches, fuse boxes or on electrical appliances.

FOR SAFETY: When using machine, never point spray gun at a person's face.

4. To operate the spray gun at low pressure without dispensing cleaning agent, turn the cleaning agent on/off lever to the (O) position (Figure 18).

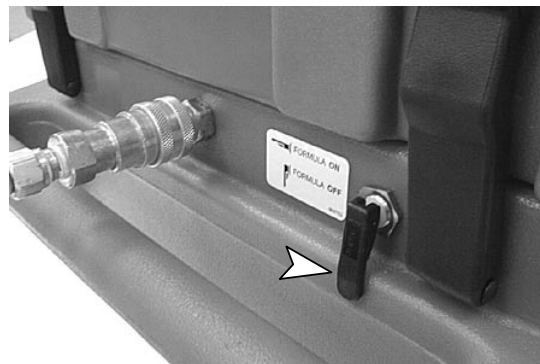


FIG. 18

5. If solution tank runs dry while operating, you must operate the spray gun at low pressure to reprime the pump. DO NOT OPERATE PUMP DRY.
6. After thoroughly rinsing the entire area, shut the machine off. Wipe off solution hose and return the gun to the storage hook.

ATTENTION: Relieve water pressure from spray gun before disconnecting hose.

D: BLOW DRYING AND SQUEEGEEING

NOTE: The use of the "Formula 720 Rinse" agent will help reduce the need and time required for blow drying surfaces.

1. Using the glass squeegee tool (supplied with machine), wipe clean the mirrors if applicable (Figure 19).



FIG. 19

2. Unwrap the gray blower hose from the machine handle and connect it to the rear of machine as shown. Then attach the blower nozzle to the hose (Figure 20).

ATTENTION: Do not use black recovery hose when blow drying. Contaminates will be blown into the air.

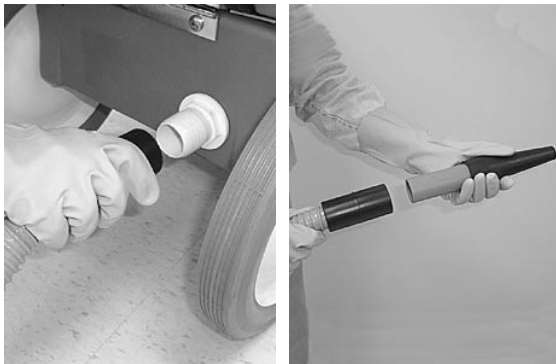


FIG. 20

3. Press the vacuum/blower switch towards the blower symbol to activate the blower (Figure 21).



FIG. 21

4. Begin blow drying the surfaces from top to bottom, directing the rinse solution to the floor. When finished, shut off blower, wipe off hose and replace it on machine (Figure 22).



FIG. 22

5. Assemble the double-bend wand, attach squeegee tool and connect wand to black recovery hose. Connect the black recovery hose to front of machine as shown (Figure 23).



FIG. 23

6. Press the vacuum/blower switch towards the vacuum symbol (Figure 24).



FIG. 24

7. Start at the doorway and extract the entire area with floor squeegee. Operator should always be standing on a dry surface when operating the floor wand (Figure 25).



FIG. 25

⚠ WARNING: Do Not Pick Up Flammable Materials Or Reactive Metals.

8. While cleaning, periodically check for excessive foam in the recovery tank. Pour a recommended foam control solution into the recovery tank if excessive foam appears. This will prevent vacuum motor damage (Figure 26).



FIG. 26

ATTENTION: Excessive foam buildup will not activate the float shut-off screen.

9. If the squeegee begins to trail water while operating, the recovery tank must be drained (See DRAINING TANKS).
10. When finished cleaning, turn the machine off and wipe off the blower and vacuum hoses. Store the hoses on the machine after cleaning.
11. Push the machine to the drain sit and empty the recovery tank.

NOTE: After cleaning one area, it is best to empty the recovery tank before proceeding to the next area to be cleaned.

DRAINING TANKS

When finished cleaning, the recovery tank should be drained and cleaned. If you have left-over rinse solution, it can remain in solution tank for the next use. Drain the solution tank when storing the machine for extended periods or when transporting machine.

FOR SAFETY: When servicing machine, unplug cord from wall outlet.

DRAINING RECOVERY TANK

Recovery tank must be emptied prior to refilling the solution tank.

1. Turn the machine off, unplug the power cord and push the machine to the drain site.
2. Remove the drain hose from holder. Turn the drain hose knob counter-clockwise approximately three full turns and pull out the plug to drain. Keep the hose above water level when removing plug (Figure 27).



FIG. 27

3. Rinse out the recovery tank after each use to prevent a foul odor. Be careful not to spray the water into the float shut-off screen.
4. Replace the drain hose plug tightly after draining.

ELEVATED DRAINING

Use the convenient pump-out procedure if the drain site exceeds 33 cm. in height.

1. Attach the gray blower hose to the blower hose connector and to the vacuum hose connector (Figure 28).

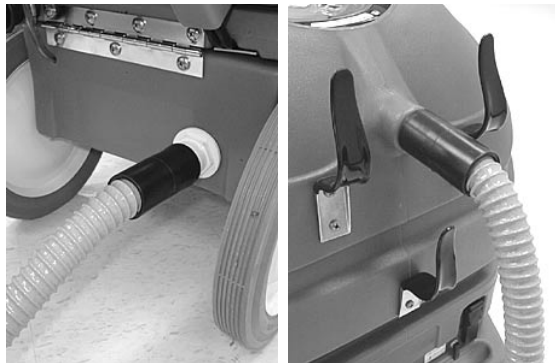


FIG. 28

ATTENTION: Make sure recovery tank lid is secure before activating blower.

2. Remove the drain hose knob, direct the hose into the elevated drain site and activate the blower switch (Figure 29).



FIG. 29

EMPTYING SOLUTION TANK

1. Connect the black recovery hose at the front of the machine and remove the solution tank lid.
2. Press the vacuum/blower switch towards the vacuum symbol.
3. Extract the remaining rinse solution from the solution tank and flush out the tank with clean water (Figure 30).



FIG. 30

4. Turn off machine, unplug the power cord and the drain recovery tank.

OTHER CLEANING USES WITH MACHINE

BLOWER HOSE CLEANING

Use the gray blower hose to blow out the debris from hard to reach areas and to remove dust and cobwebs from overhead fixtures and vents (Figure 31).

ATTENTION: Do not use machine for dry pick-up.



FIG. 31

CARPET CLEANING (OPTION)

The machine can be used to clean carpet with the use of an optional carpet cleaning floor tool (See OPTIONS).

1. Connect the fill-hose (supplied with machine) to the water faucet and fill the tank with 57 liters of hot water, 60°C maximum temperature.

DO NOT ADD CLEANING AGENTS TO SOLUTION TANK, certain cleaning agents may damage pump. Use a pump-up sprayer to apply the cleaning agent mix to the carpet.

⚠ WARNING: Do Not Use Flammable Liquids Or Operate Machine In Or Near Flammable Liquids, Vapors Or Combustible Dusts.

2. Use the equipped vacuum and solution hoses and connect them to floor tool and then to front of machine (Figure 32).



FIG. 32

3. Turn the cleaning agent on/off lever to the (I) position, located at the front of the machine (Figure 33).

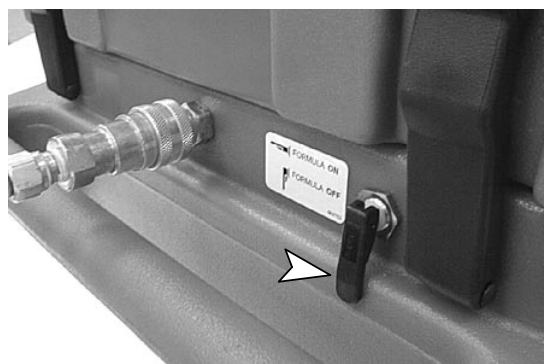


FIG. 33

4. Activate the pump switch and press the vacuum/blower switch towards the vacuum symbol (Figure 34).

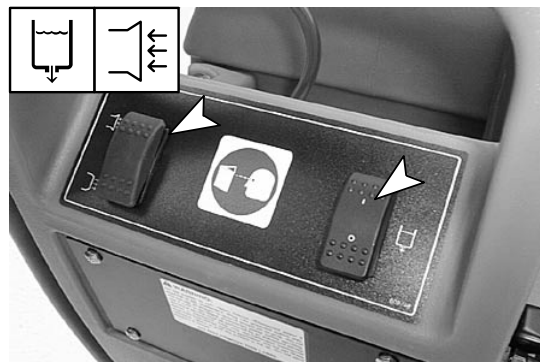


FIG. 34

5. Operate the floor tool as normal (Figure 35).

⚠ WARNING: Do Not Pick Up Flammable Materials Or Reactive Metals.



FIG. 35

6. After cleaning, relieve the water pressure from the tool before disconnecting the hose. Squeeze the trigger for five seconds after turning switches off.
7. Perform the recommended maintenance procedures (See MACHINE MAINTENANCE).

MACHINE MAINTENANCE

To keep the machine in good working condition, follow the machine's daily, monthly and quarterly maintenance procedures.

FOR SAFETY: When servicing machine, unplug cord from wall outlet.

ATTENTION: Machine repairs must be performed by authorized personnel only.

HOURLY METER

Each machine is equipped with an hour meter to record total hours of pump use. Use the hour meter to determine when to perform recommended maintenance procedures and to record service history (Figure 36).

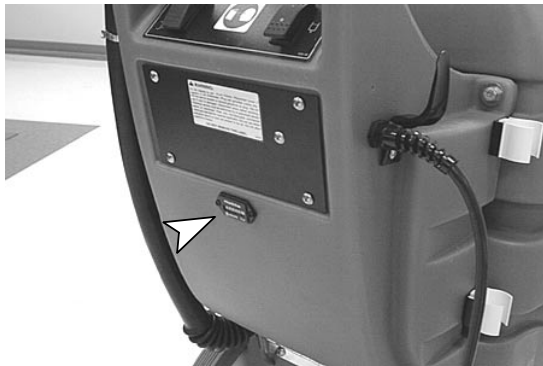


FIG. 36

DAILY MAINTENANCE

1. Clean the metering tip and flush out the blue injector tube as described below:
 - a. Fill the solution tank with 11 liters of clean water.
 - b. Remove the metering tip from the injector tube and clean the tip. Do not use pointed objects such as pins and paper clips to unplug the tips (Figure 37).

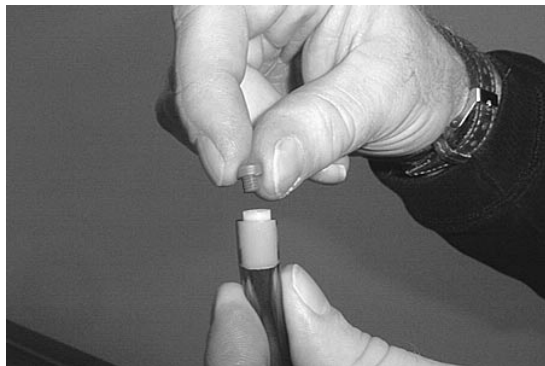


FIG. 37

- c. Submerge the end of injector tube into a 4.4 liter container of clean water (Figure 38).



FIG. 38

- d. Adjust the spray gun to the low pressure by pushing the spray nozzle outward.
 - e. Turn the cleaning agent on/off lever to the (I) position, located at the front of the machine.
 - f. Turn the pump switch on and operate the spray gun for approximately one minute.
 - g. Place cap on the injector hose after flushing.
2. Drain and rinse the recovery tank thoroughly (Figure 39).



FIG. 39

3. Remove the float shut-off screen from the recovery tank and clean (Figure 40).



FIG. 40

4. Empty any leftover water from the solution tank if storing machine for an extended period or if transporting the machine (See DRAINING TANKS).

5. Wipe clean all the accessories and replace them on the machine. Inspect the vacuum hoses for holes and loose cuffs.
6. Inspect the condition of the squeegee blades, replace if necessary.
7. Wipe clean the power cord and check for damage. Replace if necessary. Coil the cord neatly after use.

⚠ WARNING: Do Not Operate With Damaged Power Cord. Do Not Modify Plug. Unplug Power Cord Before Servicing Machine

If the supply cord is damaged or broken, it must be replaced by the manufacturer or it's service agent or a similarly qualified person in order to avoid a hazard.

8. Clean the machine with an all purpose cleaner and damp cloth (Figure 41).



FIG. 41

9. Inspect the spray gun pattern. Clean or replace the orifice if the spray pattern will not pin-point. Use a 5/64" Allen wrench to remove orifice (Figure 42).

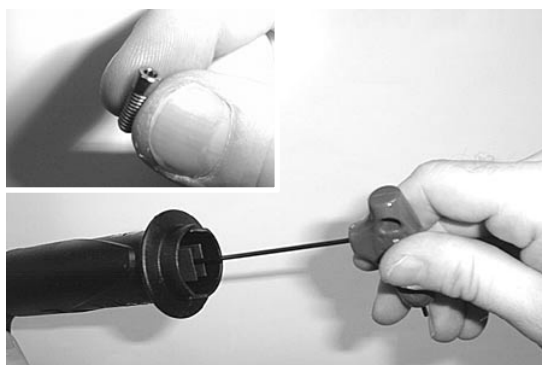


FIG. 42

MONTHLY MAINTENANCE

1. Flush the solution system with an acetic acid solution to dissolve normal alkaline chemical buildup.
 - a. Premix .5 liters of an acetic acid solution with 7.5 liters of hot water, 60°C maximum, and pour into the solution tank.

FOR SAFETY: When using machine, follow mixing and handling instructions on chemical containers.

- b. Turn the pump switch to the on position.
 - c. Over a floor drain operate the spray gun for one minute.
 - d. Shut off the machine and allow the remaining solution to break down alkaline buildup overnight.
 - e. Next day, spray out the remaining solution and flush the system with 11 liters of clean water.
2. Lubricate the wheels and casters with a water resistant oil.
3. Inspect the machine for water leaks and loose hardware.
4. Every 40 hours of use, the pump must be greased. Refer to hour meter. Each new machine is equipped with a grease gun (#190022).
 - a. Open the machine to access the pump (See ACCESSING INTERNAL COMPONENTS).
 - b. Remove the safety cover from the pump by pinching the tabs and pulling outward.
 - c. Insert the grease gun nozzle onto pump's grease fitting (Figure 43).
 - d. Slowly push the plunger completely down one to two times. Do not over grease pump, the seals may damage.

ATTENTION: Do not use air powered or hand lever grease guns, pump damage may result.

- e. Apply a generous dab of grease to the outer diameter of the cam bearing at the top and bottom where the bearing contacts the connecting rod.
 - f. Check the pump periodically and remove any excess grease from the pump cavity.



FIG. 43

QUARTERLY MAINTENANCE

Every 250 hours of use, check the vacuum motors for carbon brush wear. Replace the brushes if worn to a length of 10mm or less (Figure 44). Contact your Authorized Service Center for carbon brush inspection.

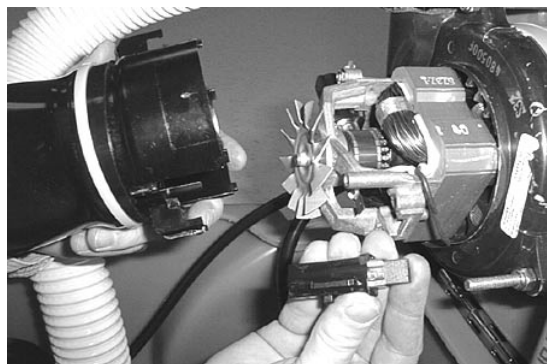


FIG. 44

ACCESSING INTERNAL COMPONENTS

The machine is designed to hinge open to access internal components. Follow the steps below to open machine.

ATTENTION: Machine repairs must be performed by authorized personnel only.

FOR SAFETY: When servicing machine, unplug cord from wall outlet.

1. Empty the recovery and solution tanks before opening the machine.
2. Unplug the power cord from wall outlet.
3. Unlatch the two latches at the front of the machine and carefully hinge the machine open (Figure 45).



FIG. 45

4. When closing the machine, make sure the hoses are not pinched or kinked.

STORING MACHINE

1. Before storing the machine, perform the recommended maintenance procedures (See MACHINE MAINTENANCE).
2. Store the machine in a dry area in the upright position.
3. Open the recovery tank cover to promote air circulation.

⚠ WARNING: Do Not Use Outdoors. Do Not Expose to Rain. Store Indoors.

ATTENTION: DO NOT ALLOW MACHINE TO FREEZE WITH WATER IN PUMP SYSTEM.

STORING MACHINE IN FREEZING TEMPERATURES

1. Drain and rinse tanks thoroughly.
2. Pour 1 liter of undiluted standard antifreeze into solution tank.
3. Spraying into a bucket, operate spray gun for 30 seconds at low pressure.
4. Allow antifreeze to remain in system.

RECOMMENDED STOCK ITEMS

Refer to the Parts List section for recommended stock items. Stock Items are clearly identified with a bullet preceding the parts description. See example below:

Ref.	Part No.	Description	Qty.
1	701103	ASM., STANDPIPE	1
2	100613	• FLOAT, SHUTOFF	1
3	230187	NIPPLE	1
4	101714	• GASKET	1
5	210240	NUT, FLANGED	1

TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
Machine does not operate.	Faulty power cord.	Contact Service Center.
	Building circuit breaker tripped.	Reset breaker.
Spray gun does not operate.	Air in pump system.	Operate spray gun at low pressure to prime pump.
	Empty solution tank.	Fill solution tank.
	Pump switch not activated.	Activate pump switch.
	Kink in solution hose	Unwind hose.
	Plugged spray gun nozzle.	Clean Nozzle.
	PLugged solution tank filter	Unplug filter.
	Loose solution hose connection.	Properly connect solution hose to coupler.
	Kinked or plugged internal pump hose.	Unkink or unplug pump hose.
	Faulty pump.	Contact Service Center.
	Faulty pump switch or wiring.	Contact Service Center.
	Faulty spray gun.	Replace spray gun.
No vacuum suction.	Vacuum/blower switch is pressed towards blower symbol.	Press switch towards vacuum symbol.
	Faulty vacuum/blower switch or wiring.	Contact Service Center.
	Defective vacuum motor.	Contact Service Center.
	Worn carbon brushes.	Contact Service Center.
Poor vacuum suction.	Clogged float shut-off screen.	Remove recovery tank lid and clean lint off screen.
	Full recovery tank.	Empty recovery tank.
	Loose recovery tank lid.	Tighten recovery tank lid.
	Loose vacuum hose connections.	Secure connections.
	Defective vacuum hose.	Replace hose.
	Loose vacuum hose cuffs.	Secure cuffs to hose.
	Defective squeegee tool.	Replace squeegee blades.
Cleaning agent is not injecting.	Spray gun set to high pressure.	Set gun to low pressure.
	Plugged metering tip.	Remove metering tip and clean.
	Plugged injection tube.	Unplug injection tube.
	Empty cleaning agent container.	Replace with new container.
	Cleaning agent on/off lever turned off.	Turn the cleaning agent on/off lever to (I) position.
	Injector tube not is submerged in cleaning agent container.	Submerge injector tube to bottom of cleaning container.
	Plugged cleaning agent Injector.	Remove and clean injector. When replacing injector, point arrow towards spray gun.
No air-flow from blower hose.	Loose blower hose connection.	Secure hose connection.
	Defective blower motor.	Contact Service Center.
	Worn carbon brushes in blower motor.	Contact Service Center.

SPECIFICATIONS

Model	TENNANT 750
LENGTH	927 mm
WIDTH	470 mm
HEIGHT	953 mm
WEIGHT	57 Kg / 64 Kg with accessories
SOLUTION TANK CAPACITY	157 L
RECOVERY TANK CAPACITY	72 L
SOLUTION PUMP	230V, rated 500 psi, 3.7 A
PUMP FLOW RATES (MAX)	High Pressure: 1 gal (3.8 L) per min. Low Pressure: 1.5 gal (5.7 L) per min.
SPRAY GUN PRESSURE	Low Pressure: 45 psi High Pressure: 300 psi/400 psi dead head
INJECTOR SYSTEM	Vacuum Feed
METERING TIP RATES	Orange Tip= 15ml./L (2 oz. per gallon) Red Tip= 30ml./L (4 oz. per gallon) Blue Tip= 44ml./L (6 oz. per gallon)
VACUUM MOTOR (BLOWER)	230V, 5.8 A, 1331 W, 2 stage
VACUUM MOTORS (RECOVERY)	230V, 7.0 A, 1566 W, 3 stage
SEALED WATER LIFT	298 c m
TOTAL POWER CONSUMPTION	230 V, 11.0 A
POWER CORD LENGTH	15 M

MACHINE DIMENSIONS

