

OPERATION

MACHINE MAINTENANCE

To keep machine in good working condition, simply follow daily, weekly and monthly maintenance procedures.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine and unplug cord from wall outlet.

ATTENTION: Contact an Authorized Service Center for machine repairs. Machine repairs performed by other than an authorized person will void your warranty.

DAILY MAINTENANCE (Every 4 Hours of Use)

1. Inspect the cord grip and power cord for damage (Figure 20). Replace immediately if damaged.

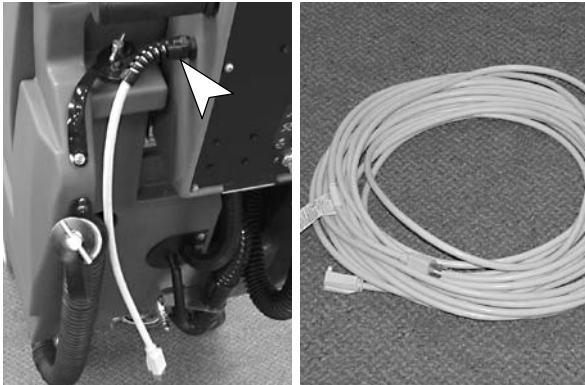


FIG. 20

⚠ 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.

2. Drain the recovery tank and rinse it out thoroughly (Figure 21).



FIG. 21

3. Remove the recovery tank plug and flush out the recovery intake opening with water (Figure 22).



FIG. 22

4. Remove and rinse off the float shut-off screen located in recovery tank (Figure 23).



FIG. 23

5. Remove any entangled carpet fibers and debris from the brush base (Figure 24).



FIG. 24

6. Remove any debris lodged in the pickup vacuum shoe (Figure 25).

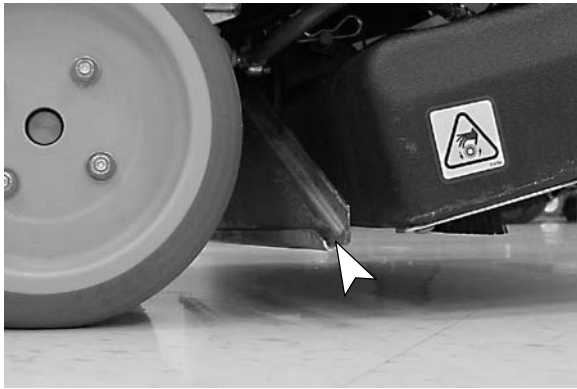


FIG. 25

7. Clean the machine housing with an all purpose cleaner and damp cloth.

ATTENTION: Do not power spray or hose off machine. Electrical component damage due to water is not covered by warranty.

WEEKLY MAINTENANCE (Every 20 Hours of Use)

1. Inspect the spray tips for proper spray pattern.
To inspect spray pattern:
 - a. Remove the shroud above the brush base and lower the brush base to the floor.
 - b. Remove the spray bar from the brush base. Do not disconnect the spray bar from the quick-disconnect coupler.
 - c. Plug the power cord into wall outlet and turn the key to the ON position.
 - d. Set the machine in the Deep Clean Mode and turn the speed control knob to the lowest setting.
 - e. While holding the spray bar with spray tips pointing downward, briefly turn the control grips forward. Observe the spray pattern for any blockage (Figure 26).
 - f. Clean or replace defective spray tips (See MONTHLY MAINTENANCE).



FIG. 26

2. Remove the solution tank filter from underneath the machine and clean the screen. Make sure the solution tank is empty before removing filter (Figure 27).

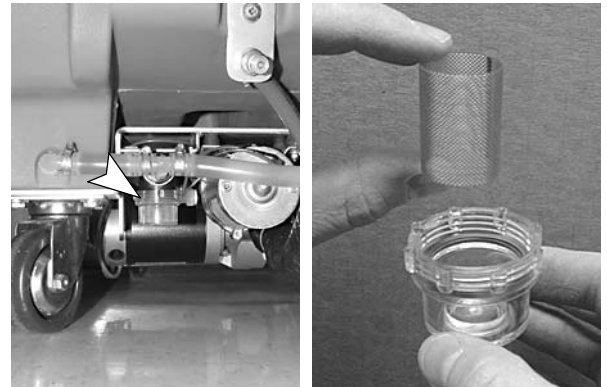


FIG. 27

MONTHLY MAINTENANCE (Every 80 Hours of Use)

1. Flush the pump system with an acetic acid solution to dissolve normal alkaline chemical buildup. Follow procedure below:
 - a. Position the machine over a floor drain.
 - b. Pour 11 liters (3 gal) of hot water into the solution tank, do not exceed 60°C (140°F). Pour 750 ml (24oz.) of an acetic acid into the solution tank.

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

- c. Operate the machine in the Deep Clean Mode for 30 seconds. To keep the machine from propelling forward, raise the brush base and place a 16 inch 2x4 board centered under the pickup vacuum shoe. Then lower the brush base in order to lift the drive wheels off the floor (Figure 28).



FIG. 28

- d. After operating the machine for 30 seconds, shut off the power and let the machine set overnight to allow the acetic acid solution to breakdown the alkaline buildup.

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- e. Next day, disperse the remaining acetic acid solution and rinse the solution system with 11 liters (3 gal) of clean water.
2. Disconnect the spray bar and twist out the six quick-release spray tips. Soak the spray tips in an acetic acid solution for up to six hours. Do not use pointed objects to unplug tips, damage will occur (Figure 29).

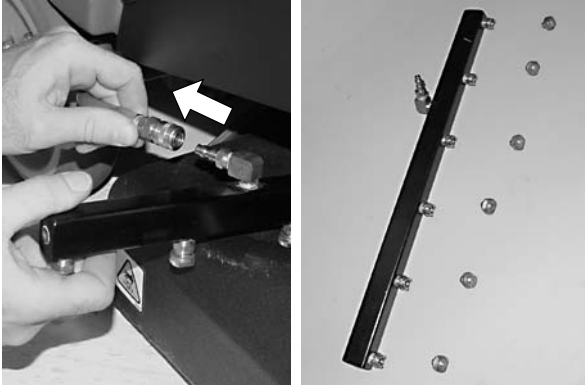


FIG. 29

3. Lubricate the caster grease fittings with a water resistant grease (Figure 30).

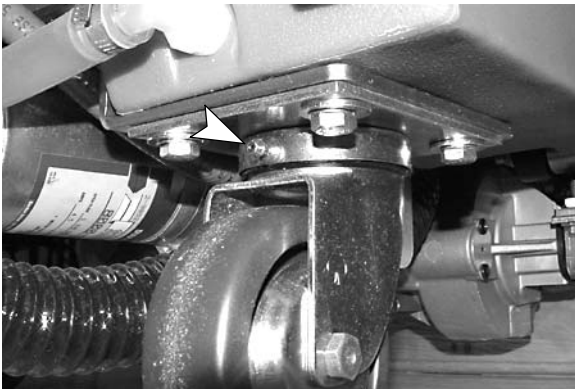


FIG. 30

4. Lubricate all pivot points and rollers with silicone spray then coat with a water resistant grease to maintain smooth operation.
5. Check the machine for water leaks and loose nuts and bolts.

QUARTERLY MAINTENANCE (Every 250 Hours of Use)

Check the drive transaxle, vacuum and brush motors for carbon brush wear, replace brushes when worn to a length of 10 mm (0.38 in) or less.

Contact an Authorized Service Center for carbon brush inspection.

FOR SAFETY: When servicing machine, all repairs must be performed by a qualified service person.

ADJUSTING THE BRUSH HEIGHT

The brush height is factory set to accommodate commercial grade loop pile carpets. When operating machine on taller carpet piles, the brush height must be adjusted accordingly. If the brush height is not properly adjusted, the brush circuit breaker may trip.

1. Park the machine on a level surface. Lower the brush base, turn the key off and unplug the cord.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine and unplug cord from wall outlet.

2. Remove the metal shroud above the brush base to access the two adjustment knobs (Figure 31).



FIG. 31

3. Using a 7/16" wrench, loosen the top and bottom jam nuts on the two adjustment knobs, 2 nuts per knob (Figure 32).

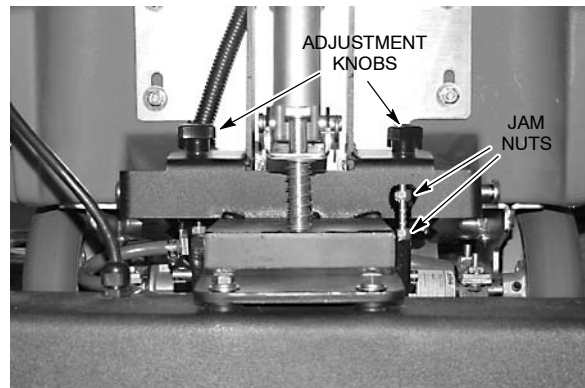


FIG. 32

4. Turn the adjustment knobs counter-clockwise to raise brush and clockwise to lower. Make sure to turn both knobs EQUALLY in order to keep brush parallel to the floor. One full turn of the knob will move the brush 1.5mm (1/16"). Retighten the top and bottom jam nuts after adjustment is made and replace the metal shroud.

- To adjust the brush height back to the original factory set height, place the machine on a hard floor surface and lower the brush base to the floor. Following the adjustment procedure, adjust the brush height so that the brush bristles just touch the floor then turn both knobs 3 full turns counter-clockwise (Figure 33).

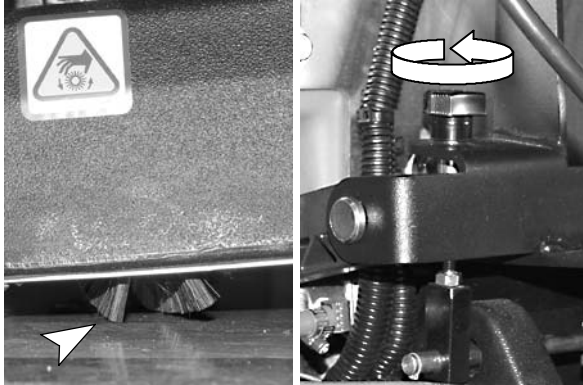


FIG. 33

MACHINE JACKING

Use the designated locations under the solution tank for jacking up the machine. Use a piece of wood to distribute the machine weight load (Figure 34).

Stop the machine on a flat level surface and block machine tires before jacking up the machine.



FIG. 34

FOR SAFETY: When servicing machine, block machine tires before jacking machine up.

FOR SAFETY: When servicing machine, jack machine up at designated locations only. Block machine up with jack stands.

TRANSPORTING MACHINE

When transporting the machine by use of trailer or truck, be certain to follow tie-down procedures below:

FOR SAFETY: When using machine, go slow on inclines and slippery surfaces.

- Set the machine in the Travel Mode.
- Load the machine using a recommended loading ramp.
- Position the front of the machine up against the front of the trailer or truck. Once machine is positioned, lower the brush base and turn off key.
- Place a block behind each drive wheel to prevent machine from rolling.
- Place tie-down straps over the top of the machine to prevent it from tipping. It may be necessary to install tie-down brackets to the floor of your trailer or truck.

FOR SAFETY: When transporting machine, use a recommended ramp when loading/unloading into/off truck or trailer, use tie-down straps to secure machine to truck or trailer.

STORING MACHINE

- Drain and rinse tanks thoroughly.
- Store the machine in a dry area with the brush base in the raised position.
- Remove the recovery tank cover to promote air circulation.

ATTENTION: If storing the machine in freezing temperatures, be certain to drain tanks, purge pump and remove the solution tank filter located under the machine at rear. Damage due to freezing temperatures is not covered by warranty.

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

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 | 180613 | • FLOAT, SHUTOFF | 1 |
| 3 | 230197 | NIPPLE | 1 |
| 4 | 101714 | • GASKET | 1 |
| 5 | 210240 | NUT, FLANGED | 1 |