

TORNADO INDUSTRIES, LLC  
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FAX: 817-551-0719  
WWW.TORNADOVAC.COM



## Operations & Maintenance Manual

For Commercial Use Only



## Marathon Carpet Rinser/Dryers Models 800 & 1200

**MODEL NO.**  
**98166 & 98168 (115V, 60Hz)**

For parts list see L2669LFP

## NOTES



## Long Term Buyer Protection Limited Warranty

Tornado Industries, LLC. (Tornado) warrants to the end/user customer that the Tornado product(s) will be free from defects in material and workmanship for the duration(s) described below. This limited warranty DOES NOT cover machines and/or components subject to normal wear and tear, damage that occurs in shipping, failures resulting from modification, accident, unsuitable operating environment, misuse, abuse, neglect, or improper maintenance by you. For full details, contact your Authorized Tornado Distributor, Service Center, or the Tornado Technical Service Department. Tornado sales and service representatives are not authorized to waive or alter the terms of this warranty, or to increase the obligations of Tornado under the warranty.

**10 Years\***

**Plastic water tanks and Rotationally-molded bodies**

**2 Years\***

**Parts on all Tornado cleaning equipment**

**1 Year\***

**Labor on all Tornado cleaning equipment**

**1 Year\***

**Warranty on batteries, one year prorated**

All battery warranties are handled directly by the battery manufacturer, on a one year prorated basis

### Terms subject to change without notice

1. Except all Windshears™ Blowers, Storm, TV2SS, Side and Downdraft, Insulation Blowers, CV 30, CV 38, CK14/1 PRO, CK 14/2 PRO, SWM 31/9, CK LW13/1, CK LW 13/1 ROAM, CV 38/48 Dual, PV6, PV10, PV6 ROAM, Wall Mount Vacuum and all chargers are warranted for 1 (one) year for both parts and labor.
2. All non-wear item parts purchased after warranty expiration are warranted for 90 days.
3. Warranty starts from the date of sale to the consumer or, at Tornado's discretion, 6 months after the dealer purchased the unit from Tornado, whichever comes first.
4. The EB 30 is warranted for a period of 90 days for both parts and labor.
5. The warranty on engines used on propane powered equipment is limited to motor manufacturer's warranty.
6. Ride-on Scrubbers are warranted for 24 months, parts, 6 months labor or 1,000 hours, whichever occurs first.

**Note:** Tornado, The Latest Dirt, Floorkeeper, Carpetkeeper, Carpetrinser, Carpetrinser/Dryer, Headmaster, Taskforce, PAC-VAC, T-Lite, Glazer, Windshear, Max-Vac and Trot-Mop are trademarks of Tornado Industries

**Website:** [www.tornadovac.com](http://www.tornadovac.com)

Phone 1-800-VACUUMS

Fax 817-551-0719

Address 3101 Wichita Court  
Fort Worth, TX 76140



**Write your machine serial number here:**\_\_\_\_\_

*This illustrated instruction book covers:*

|           |       |       |
|-----------|-------|-------|
| VERSION   | 800   | 1200  |
| MODEL NO. | 98166 | 98168 |
| VOLTS     | 115   | 115   |
| SERIES    | F     | F     |

**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.**

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# **IMPORTANT SAFETY INSTRUCTIONS FOR COMMERCIAL USE**

**WHEN USING AN ELECTRICAL APPLIANCE, BASIC PRECAUTIONS SHOULD  
ALWAYS BE FOLLOWED INCLUDING THE FOLLOWING:**

**READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE**

## **WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY:**

1. Do not leave machine when plugged in. Unplug from outlet when not in use and before servicing.
2. Use indoors only. Do not use outdoors and do not expose to rain.
3. Do not allow to be used as a toy. Close attention is necessary when used by or near children.
4. Use only as described in this manual. Use only manufacturer's recommended attachments.
5. Do not use with damaged cord or plug. If machine is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
6. Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run machine over cord. Keep cord away from heated surfaces.
7. Do not unplug by pulling on cord. To unplug, grasp the plug not the cord.
8. Do not handle plug or machine with wet hands.
9. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair and anything that may reduce air flow.
10. Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
11. Turn off all controls before unplugging.
12. Use extra care when cleaning on stairs.
13. Do not use to pick up flammable or combustible liquids, such as gasoline or use in areas where they may be present.
14. Connect to a properly grounded outlet only. See Grounding Instructions.

**SAVE THESE INSTRUCTIONS**

## **BEFORE OPERATING THE MACHINE**

Read the manual carefully and completely before attempting to operate the unit. This manual has important information for the use and safe operation of the machine. Keep this manual on file and handy. This machine will assure years of satisfactory service if operated and maintained according to recommendations in the manual. If additional information is needed, please contact your local distributor or call:

**TORNADO INDUSTRIES, INC.**  
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FAX: 817-551-0719

All information and specifications printed in the manual and parts list are current at the time of printing. However because of Tornado's policy of continual product improvement, we reserve the right to make changes at any time without notice.

This machine was shipped with window washer antifreeze, during the winter months, in the solution line system to protect the pump and valves from freezing during transportation and storage. Before you use the unit, rinse the solution line system with clean water (refer to Protect From Freezing).

## **WARRANTY**

***To protect your investment, promptly fill out the  
required information on the warranty card that  
comes with the unit and mail it back to  
Tornado Industries***

## **REQUIRED CLEANING CHEMICALS**

Use only commercial low foam cleaning chemicals that are designed for carpet extraction.

1. General carpet extraction cleaner added to the solution tank.
2. Traffic lane per-spray usually applied with spray wand.
3. Defoamer only goes into the recovery tank.

**CAUTION:** Use as directed. Do not over-use the cleaning chemicals.

## GENERAL PRECAUTIONS

- Make sure the machine is plugged into an electrical outlet with the same voltage and frequency rating as shown on the nameplate of the machine
- Disconnect power cord from the outlet before attempting maintenance or repair work.
- Do not leave machine connected to an electrical outlet when unattended.
- Don't abuse power cord. Never pull the machine by the cord or yank plug from the receptacle. If this machine is operated on a wet carpet a potential shock hazard can be caused by a damaged cord. Replace a damaged cord immediately.
- Do not immerse this machine in standing water. Such use can cause electrical shock.
- Do not use volatile substances such as gasoline or kerosene in the machine, on or near the surface to be cleaned. The use of such materials could cause an explosion and fire.
- If an extension cord is necessary, use a 3 conductor grounding cord, 12-gauge wire to prevent motor burnout, overheating of the wiring.
- To avoid electrical shock, do not expose to rain and store indoors.

## **WARNING**

***The machine was designed for use on carpeted floors as per instructions and recommendations written in this manual. Any deviation from its proper use or purpose and the consequential damage that may occur is the sole responsibility of the end user.***

- Do not use the machine for **dry** vacuuming. This machine is not fitted with a dry filter.
- Use defoamer in the recovery tank at all times to prevent damaging the vacuum motor.
- Do not use water in excess of 140 degrees F (62 degrees C).
- Use only commercially available **low** foaming carpet cleaners and defoamers intended for machines of this type. Do not use dyes, bleaches, ammonia or other additives. The use of powdered cleaning solution if not diluted properly may result in the intake screen clogging or damage to the pump.
- Do not expose machine to freezing temperatures.
- Do not attempt to repair warranted machines. All repairs must be done by a qualified and authorized repair center. Non-warranted repairs will be billed back to the owner of the unit.
- Do not use any replacement parts except those specified in the parts list. Unauthorized parts will void the warranty and could cause the unit not to function properly.

**FAILURE TO COMPLY WITH THE ABOVE WARNING INSTRUCTIONS  
WILL VOID THE WARRANTY**

## ELECTRICAL

This machine operates on a standard, 15 AMP, 115 volt AC circuit and has a grounded plug.\* Make sure the machine is connected to an outlet having the same configuration as the plug.

**No ungrounded adapter should be used with this machine.**

\*Special voltage models available.

## GROUNDING INSTRUCTIONS

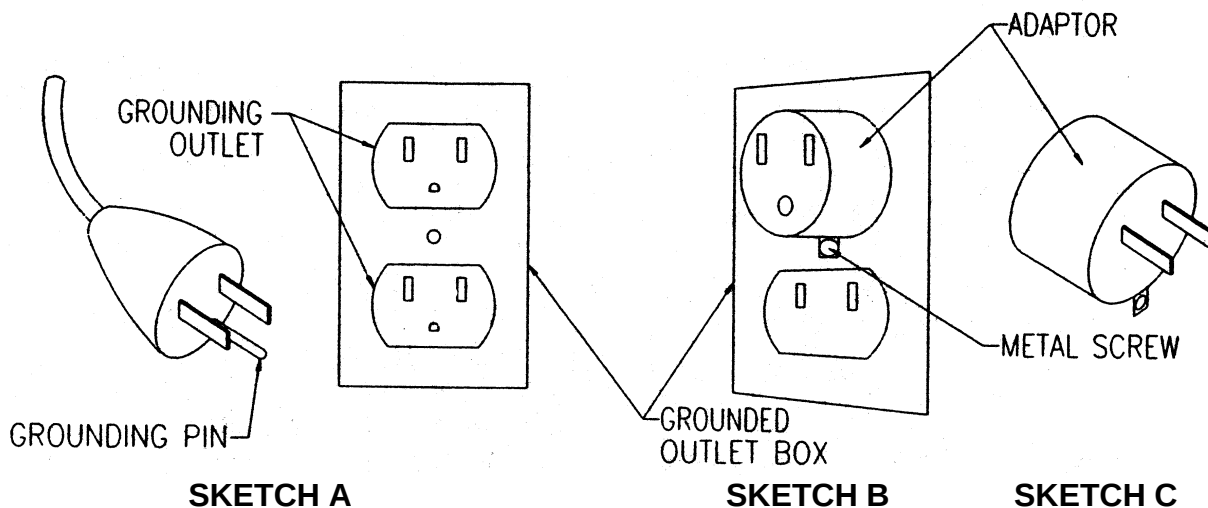
This machine must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk electric shock. This machine is equipped with a cord having an equipment -grounding conductor and grounding plug. The plug must be inserted into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

### **WARNING:**

*Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.*

This machine is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug illustrated in sketch A. A temporary adapter that looks like the adapter illustrated in sketches B and C may be used to connect this plug to a 2-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adapter should be used only until a qualified electrician can install a properly grounded outlet (sketch A). The green-colored rigid tab, lug, or the like extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a metal screw.

**NOTE: In Canada, the use of a temporary adapter is not permitted by the Canadian Electrical Code.**



## CLEANING TIPS

- Check the condition of the carpeting. If the carpet is loose, heavily soiled, stained, spotted or badly worn, point this out to the person in charge.
- Locate an inconspicuous spot on the area to be cleaned. Test carpet for colorfastness before proceeding. Pour the concentrated cleaning solution on the spot, cover with a white towel and place a heavy object on top to absorb the cleaning solution. Wait 10 minutes for any reaction to take place. Remove weight. If there is no color transfer, it should be safe to clean.
- Remove the furniture from the area to be cleaned. Large pieces can be moved to opposite end of the room from where you start cleaning and replace when it is completed. After cleaning carpet, place a small square of aluminum foil or 6 mil poly square under the furniture legs to prevent moisture from damaging the finish or rusting the metal glides.
- Clean the area first with a Clean-Air Carpetkeeper, upright vacuum. **Do not use the Marathon 800/1200 as a dry vacuum!** Heavily soiled carpet or areas of concentrated foot traffic should be treated with recommended pre-spotting or pre-spray chemicals, using a hand spray trigger bottle or pump-up sprayer. Do not allow any spotter or pre-spray to dry on the carpet.
- Identify the type of carpet fiber to be cleaned. Most commercial carpet fibers in use are nylon or acrylic based. Best results in cleaning would be obtained if hot water is used to clean these types of fibers. On the other hand, hot water could shrink natural fiber carpeting, like wool and cotton in particular. Exercise caution when cleaning natural fibers. Use cool water test for colorfastness and apply the least amount of cleaning solution possible.
- Plan your cleaning route. Always try to have the cord to the right of the Marathon 800/1200 extractor so you are working away from the cord. Operate the extractor in parallel passes. Clean the perimeter last. Turn “off” spray switch in turns to conserve cleaning solution.
- To decrease dry time, go over the carpet without pressing carpet spray switch. To further decrease the drying time, use the Windshear 3000 Carpet Blower.
- When running the extractor, do not overfill the recovery tank. Do not allow the water level to rise above the standpipe intake filter inside the recovery tank.
- If the spray jets become clogged, remove the individual spray tips and soak them in a mild acid or anti-browning chemical to dissolve normal alkaline chemical buildup.
- When the Marathon 800/1200 extractor runs out of cleaning solution, noted by streaking or incomplete cleaning, turn off the machine and drain the recovery tank. Refill as needed and continue cleaning.

## **MACHINE SPECIFICATIONS**

- v *ELECTRICAL: 115 V, 15 A, 60 HZ.*
- v *DURABLE EXTENSION CORD: 50'*
- v *DRIVE SYSTEM: SELF-PROPELLED*
- v *VACUUM MOTOR: 3 STAGE, 2 HP*
- v *VACUUM SHOE: 20" WIDE, POLYETHYLENE, NON-ADJUSTABLE PIVOT MOUNT*
- v *BRUSH: 17" LONG*
- v *BRUSH SPEED: 900 RPM*
- v *SOLUTION PUMP: 100 PSI, DIAPHRAGM STYLE*
- v *SOLUTION CAPACITY: MARATHON 800: 8-GAL; MARATHON 1200: 12-GAL*
- v *RECOVERY CAPACITY: MARATHON 800: 10-GAL; MARATHON 1200: 14-GAL*
- v *WHEELS: 10" DIA.*
- v *SPRAY SYSTEM: (4) QUICK-CHANGE JETS*
- v *EMPTY WEIGHT: 100 LBS.*
- v *FULL WEIGHT: MARATHON 800: 150 LBS; MARATHON 1200: 175 LBS*
- v *LENGTH: 38.5"*
- v *HEIGHT: 36"*
- v *WIDTH: 20"*

## **OPERATION INSTRUCTIONS**

### **Main Controls:**

Your Marathon 800/1200 extractor is equipped with three labeled main switches that control the water spray system, the brush motor, and the vacuum motor.

In addition, there is one main circuit breaker, (located on the lower left of the main control panel). This (2.5 amp@250VAC) circuit breaker protects the brush drive motor.

### **Set Up and Operation:**

Your Marathon 800/1200 is shipped complete and ready for carpet cleaning. This style of machine is sometimes referred to as a self-contained extractor, since everything is included in the body of the Marathon 800/1200 extractor.

1. Remove the recovery tank cover (rear) from the top of the tank.
2. Important! – Prior to first use: The unit has been tested with window washer fluid at the factory, and a small amount of this fluid may remain in the system as a precaution against freezing. Prior to first use, flush the tank and pump system with a half-gallon of plain water.
3. Open solution tank cover (front) of the tank and fill with hot water. Add liquid cleaning solution to proper dilution ratio.
4. Use separate buckets to fill and empty extractor. Avoid using un-dissolved soap or chemicals that could potentially plug the spray jets.
5. Plug the unit's power cord into a grounded power outlet. Add a 12-gage extension cord as needed.

### **WARNING:**

***To avoid serious injury: Plug into a grounded (earth) outlet only. Do not use an adapter or remove ground pin on plug. Do not use a damaged cord.***

6. Activate the vacuum motor switch (left).
7. Activate the brush motor switch (right).
8. Hold down the water spray system switch (center). Remember to release this switch at least 6" from the end of each cleaning pass.
9. Pull the machine backward across the surface to be cleaned.
10. As you are cleaning, monitor the water level in the recovery tank cover. An overflow of water in the recovery tank can damage the vacuum motor. Always be aware of this water level.
11. The recovery tank can be drained by removing the drain hose from its support plug. The standpipe in the recovery tank is equipped with a metal screen cap. This cap is accessible by removing the recovery tank cover. It is recommended that this cap be cleaned after every machine use.
12. The solution tank level can be monitored by looking through the clear cover. The water in the solution tank can be drained using the separate siphon hose supplied with the unit.
13. Soiled high-traffic areas and spots can be pre-sprayed using the optional spray hand tool. The same tool can also be used to spray and extract hard-to-reach areas. The spray hose is attached to a quick disconnect, and is pressurized when the solution switch is turned on. The attachment's vac hose is installed by replacing the onboard vac hose connection at the rear.

## **WARNING:**

**To avoid serious injury: Disconnect power before servicing. Electrical service must be performed by an authorized service station or electrician. Use only nonflammable commercial chemicals intended for machine application. Do not use where explosive vapors or dust are present in the air. Disconnect power if the machine is left unattended. Do not allow machine to freeze. Do not expose to rain. Store machine indoors.**

## **Daily Maintenance:**

- 1. Rinse out the recovery tank and clean the recovery lid. In addition, remove and clean the recovery screen cap.**
2. Drain the solution tank with the supplied siphon drain hose, and clean with water.
3. Remove any debris in either the recovery or solution tank.
4. Flush the pumping system with clean warm water or white vinegar.
5. Remove lint or debris from the vacuum shoe or brush. Hint: if heavy lint build-up is present, use a hacksaw blade with teeth down to remove the lint.

## **Periodic Maintenance:**

- It is highly recommended that once a month you flush the Marathon 800/1200 out with an 8 to 1 ratio of water to white vinegar or anti-browning solution through the extractor. This will help to prevent the build up of alkaline residue.
- If the spray jets become clogged, remove and wash them thoroughly and blow-dry. Do not use wire or pins to clean the nozzles as this will cause the spray pattern to become distorted, thereby creating a streaking pattern on the carpeting.
- If the spray jets drip after the pump is turned off, the solenoid valve may need to be cleaned.
- Once a month, inspect all electrical cables, hoses, filters and connections in the Marathon 800/1200. If you see something that should be repaired or replaced it should be reported and repaired. Little things are easy to forget about, but as these little things add up, you end up with a cluster of problems that will cost you in the long run.
- Be sure to use Tornado genuine parts and service is provided by an authorized Tornado Service Center. Use of non-O.E.M. parts will void the warranty.

## **PROTECT FROM FREEZING**

If it becomes necessary to store in temperatures that could drop below 40 degrees F, the pumping system, hoses and valves must be protected from freezing with a methyl hydrate window washer antifreeze solution. **Do not use ethylene glycol or cooling system antifreezes.**

Whenever unit will be stored in temperatures below 40 degrees F, empty the solution tank, and then pour a half-gallon of pre-mixed window washer antifreeze into the tank. The windshield washer fluid must not be diluted with water or solution already in the tank. Turn on the brush switch and press the spray switch until the unit runs completely dry.

Before returning the unit back to service, allow it to reach room temperature first. Then add a half-gallon of plain water to the solution tank and flush the system using the spray switch.

The unit has been tested at the factory with windshield washer antifreeze solution. A small amount of this solution may remain in the system and must be flushed out prior to first use.

## Troubleshooting Table:

| Problem                            | Solution                                              |
|------------------------------------|-------------------------------------------------------|
| No power, nothing works            | * Plug in cord                                        |
|                                    | * Check for loose wiring                              |
|                                    | * Call Service                                        |
| Brush does not rotate              | * Reset circuit breaker                               |
|                                    | * Activate brush switch                               |
|                                    | * Check for loose wiring                              |
|                                    | * Call Service                                        |
| Poor water spray                   | * Spray jets clogged - remove and clean spray jets    |
|                                    | * Check pump – remove spray jets and check water flow |
|                                    | * Call Service                                        |
| Vacuum motor runs but poor suction | * Remove debris from vac shoe                         |
|                                    | * Recovery tank too full - drain tank                 |
|                                    | * Remove debris from suction hose                     |
|                                    | * Call Service                                        |
| Vacuum motor will not run          | * Activate vacuum switch                              |
|                                    | * Check for loose wiring                              |
|                                    | * Call Service                                        |

## Service Parts List:

| P/N   | Description                        |
|-------|------------------------------------|
| 02661 | Wheel-10"                          |
| 16091 | Clamp-Hose (screw) 1-1/4"-2"       |
| 16620 | Siphon Hose (1-1/2" X 23-1/2" Lg.) |
| 19097 | Filter-Vac Motor Intake            |
| 19119 | Gasket-Vac Motor                   |
| 19129 | Access Cover-Tank                  |
| 19154 | Spray Nozzle 1/8" (V-Jet)          |
| 19159 | Brush Roller 17"                   |
| 19233 | Belt-Timing 150 X L X 3/8"         |
| 32178 | Inline Strainer 3/8" NPT           |
| 32203 | Kit-Pump w/Fittings                |

# Warranty Registration Form

Please provide additional information on  
Tornado equipment: (Check choices below)

- |                                                       |                                               |
|-------------------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> Automatic Scrubbers          | <input type="checkbox"/> Sweepers             |
| <input type="checkbox"/> Propane Floor Machines       | <input type="checkbox"/> Rotary Floor Machine |
| <input type="checkbox"/> High Speed Burnishers        | <input type="checkbox"/> Carpet Vacuums       |
| <input type="checkbox"/> Carpet Extractors & Spotters | <input type="checkbox"/> Wet/Dry Vacs         |
| <input type="checkbox"/> Steam Cleaners               | <input type="checkbox"/> Jumbo Vacs           |
| <input type="checkbox"/> Ride-On Equipment            | <input type="checkbox"/> Pressure Washers     |

See complete product info at [www.tornadovac.com](http://www.tornadovac.com)

Selling Dealer: (Required) \_\_\_\_\_

Please Print Clearly

|                     |                     |
|---------------------|---------------------|
| Company/Institution |                     |
| Contact Name        | Title               |
| Address             | City/State/Zip Code |
| Phone               | Fax                 |
| Date of Purchase    | Email               |

**See white metal plate or sticker on unit for this information.**

| MACHINE TYPE/MODEL NUMBER: | MACHINE SERIAL NUMBER: |
|----------------------------|------------------------|
| 1. _____                   | 1. _____               |
| 2. _____                   | 2. _____               |
| 3. _____                   | 3. _____               |
| 4. _____                   | 4. _____               |

|                                                                                                                                                                          |                                                                                                                                                         |                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Facility Description (please circle all that apply)                                                                                                                      |                                                                                                                                                         |                                                                                                               |
| 1. School<br>2. Retail Store<br>3. Restaurant<br>4. Office Building<br>5. Contract Cleaning<br>6. Light Manufacturing<br>7. Heavy Manufacturing<br>8. College/University | 9. Hospital<br>10. Nursing Home<br>11. Religious Institution<br>12. Airport<br>13. Warehouse<br>14. Apartment/Condo<br>15. Warehouse<br>16. Supermarket | 17. U.S. Govt.<br>18. Other Govt.<br>19. Auto Service<br>20. Airport<br>21. Non-Profit<br>22. Other (specify) |

| How did you first learn about<br>Tornado cleaning and<br>maintenance equipment?                                                                                                                                                                                                                                         | In square feet ( <i>meters</i> )                                                                                                                                                                |                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                         | Total Hard Floor Area                                                                                                                                                                           | Total Carpeted Area<br>Square feet (square meters)                                                                                                                                              |
| <input type="radio"/> Contacted by local dealer<br><input type="radio"/> Previous experience with<br>Tornado products<br><input type="radio"/> Reputation/<br>Recommendation<br><input type="radio"/> Advertising<br><input type="radio"/> Direct mail<br><input type="radio"/> Internet<br><input type="radio"/> Other | <input type="radio"/> 0-10,000 (0-930)<br><input type="radio"/> 10-50,000 (930-4,650)<br><input type="radio"/> 50-250,000 (4,650-23,250)<br><input type="radio"/> Over 250,000 (over<br>23,260) | <input type="radio"/> 0-10,000 (0-930)<br><input type="radio"/> 10-50,000 (930-4,650)<br><input type="radio"/> 50-250,000 (4,650-23,250)<br><input type="radio"/> Over 250,000 (over<br>23,260) |

Damage or defect arising from abuse, neglect or other misuse is excluded from this warranty. Other items may or may not apply based on your specific machine. If any defect occurs, the warranty is voided if service is attempted by non-Authorized Tornado Service Centers.

Return to :  
Tornado Industries  
3101 Wichita Court  
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or online at  
[www.tornadovac.com](http://www.tornadovac.com)

