PRO SPOTTER
MODEL NO: 98834/98835/98837

Save These Instructions
Long-Term Buyer Protection Limited Warranty

Tornado Industries, LLC. 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. 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.

1. All Windshear™ Blowers, Storm, TV2SS, Side and Downdraft, Insulation Blowers, CV 30, CV 38, CK14/1 PRO, CK 14/1 BSE, CK14/2 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 either: The date of sale to the consumer, or 6 months after the dealer purchased the unit from Tornado (at Tornado’s discretion), whichever comes first.
4. The EB 30 is warranted for a period of 90 days for both parts and labor.
5. Propane-powered equipment engines are limited to the engine manufacturer’s warranty.
6. Ride-on Scrubbers are warranted for 24 months parts, and 6 months labor, or 1,000 hours, whichever occurs first.

Terms subject to change without notice

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
Phone 1-800-VACUUMS
Fax 817-551-0719
Address 3101 Wichita Court
Fort Worth, TX 76140

1-800-VACUUMS Over 91 Years of Cleaning Innovation A Tacony Company

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<table>
<thead>
<tr>
<th></th>
<th>Model 98834</th>
<th>Model 98835</th>
<th>Model 98837</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>115 VAC</td>
<td>230 VAC</td>
<td>230 VAC</td>
</tr>
<tr>
<td>Plug Type</td>
<td>US</td>
<td>Euro</td>
<td>AUS</td>
</tr>
<tr>
<td>Solution Tank</td>
<td>3.5 gal/13.2 l</td>
<td>3.5 gal/13.2 l</td>
<td>3.5 gal/13.2 l</td>
</tr>
<tr>
<td>Recovery Tank</td>
<td>2.5 gal/9.5 l</td>
<td>2.5 gal/9.5 l</td>
<td>2.5 gal/9.5 l</td>
</tr>
<tr>
<td>Machine Dimensions</td>
<td>13.5” x 22” x 23.5”</td>
<td>13.5” x 22” x 23.5”</td>
<td>13.5” x 22” x 23.5”</td>
</tr>
<tr>
<td></td>
<td>34 cm x 56 cm x 60 cm</td>
<td>34 cm x 56 cm x 60 cm</td>
<td>34 cm x 56 cm x 60 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>36 lbs./16 kg</td>
<td>36 lbs./16 kg</td>
<td>36 lbs./16 kg</td>
</tr>
<tr>
<td>Waterlift</td>
<td>89”/226 cm</td>
<td>89”/226 cm</td>
<td>89”/226 cm</td>
</tr>
<tr>
<td>CFM</td>
<td>141</td>
<td>141</td>
<td>141</td>
</tr>
<tr>
<td>Solution Pressure</td>
<td>55 p.s.i./3.8 bar</td>
<td>55 p.s.i./3.8 bar</td>
<td>55 p.s.i./3.8 bar</td>
</tr>
</tbody>
</table>
Your new Tornado unit is a high quality, precision-made product. All parts used in the manufacturing of this unit have passed rigid quality control standards prior to final assembly. Please safeguard the original receipt / invoice. If you experience any problems with your unit during the warranty period, the original receipt / invoice will act as proof of purchase. Contact Tornado for any warranty inquiries.

**IMPORTANT SAFETY INSTRUCTIONS**

**READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE USING THIS UNIT**

Read and understand this owner’s manual and all labels on the unit before operating. Safety is a combination of common sense, staying alert and knowing how your unit works. Use this unit only as described in this manual. Use only manufacturer’s recommended attachments. To reduce the risk of personal injury or damage to your unit use only Tornado recommended accessories.

When using the Pro Spotter, basic precautions should be followed, including the following: *Read all instructions before using this commercial spotter.*

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

To reduce risk of fire, electric shock, or injury:

- Do not use outdoors or on wet surfaces.

- **Do not leave init unattended when plugged in. Turn off the switch and unplug the electrical cord when not in use and before servicing.**

- **Do not allow to be used as a toy. Close attention is necessary when used near children.**

- Use only as described in this manual. Use only manufacturer’s recommended attachments.

- **Do not use with damaged cord or plug. If unit is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center before using.**

- **Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull a cord around sharp edges or corners. Do not run the unit over cord. Keep cord away from heated surfaces.**

- **Do not use extension cords or outlets with inadequate current carrying capacity.**

- Turn off all controls before unplugging.

- **Do not handle plug or unit with wet hands.**

- **Do not put any objects into openings. Do not use with any opening blocked, keep free of dust, lint, hair, and anything that may reduce airflow.**

- **Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.**

- **Do not pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes. Use extra care when cleaning on stairs. Do not use to pick up flammable or combustible liquids such as gasoline, or use in areas where they may be present.**

- **Store your unit indoors in a cool, dry area.**

- **Do not unplug by pulling on cord. To unplug, grasp the plug, NOT THE CORD.**

Follow these guidelines to ensure operator safety and to maintain equipment in running order:

- Make sure the machine is plugged into an electrical outlet with the same voltage rating as shown on the nameplate of the machine.

- **Do not attempt to plug a 110 volt machine into a 220 volt outlet or a 220 volt machine into a 110 outlet.**
• Replace a damaged cord immediately.
• If an extension cord is necessary, use a three conductor grounding cord-12 gauge wire or heavier to prevent motor burnout and over-heating of wires
• Do not expose the machine to freezing temperatures.
• Do not use the machine for totally dry vacuuming. This machine is not fitted with a fine dust filter.
• Do not use citrus-based cleaners in this machine.
• Do not use cleaning chemicals in this machine except those recommended for commercial extraction equipment. The use of any chemical with abrasive additives voids the warranty.
• Do not break off or pull out the ground prong on the plug.
• Do not attempt repair on a warranted machine unless instructions to perform it by an authorized shop are obtained from the factory.
• Do not use any replacement parts except those specified on the parts list. Proper performance of the machine could be affected if substitutions are made.
• Use defoamer at all times to prevent damaging the vacuum motor.
• Do not use water in excess of 140° F (62° C).

Failure to comply with the above warning instructions will void the warranty.

GROUNDING INSTRUCTIONS

This appliance 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 appliance is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug illustrated in sketch A.
WHEN THE MACHINE IS DELIVERED
Check the carton carefully for signs of rough handling. Remove the machine from the carton. If the machine is damaged, notify the carrier immediately and request an inspection. Be sure to keep the carton, packing inserts, packing lists and carrier receipt until the inspector has verified your claim. Liability ceases when the shipment is picked up by the carrier, but our customer service staff will be glad to furnish any information needed in connection with the claim and will expedite the repair of the machine.

OPERATING INSTRUCTIONS
Filing the Pro Spotter
Disconnect the solution and recovery tanks. Add water and or chemicals to the lower solution tank. The tank will hold up to 3.5 gallons
Operating the Pro Spotter
• Attach the solution feed line to the quick disconnect at the bottom of the machine.
• Attach the vacuum hose to the vacuum inlet (handle) above the recovery tank lid.
• Turn the 3-way switch to use either the pump and vacuum or the vacuum alone. (Allow approximately 30 seconds for the pump to prime).
• Use the hand tool to spray and recover the solution.
• The float shut-off will disable the suction of the unit when the recovery tank is full. The operator will notice a distinctive change in the sound of the vacuum motor when the shut-off is activated. Empty the recovery tank, and then fill the solution tank, to resume cleaning.
### Emptying the Recovery Tank
- Disconnect the solution line and vacuum hose.
- Unlatch the recovery tank from the base of the unit and remove.
- Remove the drain plug.
- Drain the tank over a suitable outlet for wastewater
- Rinse the tanks after each use.
Store the unit with the lid off of the recovery and allow it to air dry.

### TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Spray</td>
<td>Pump is not primed.</td>
<td>Depress lever on hand tool to release pressure.</td>
</tr>
<tr>
<td>Low Solution Flow</td>
<td>Solution tank level is low.</td>
<td>Refill Solution tank.*</td>
</tr>
<tr>
<td></td>
<td>Clogged filter.</td>
<td>Clean the screen filter on the hose in the solution tank.</td>
</tr>
<tr>
<td></td>
<td>Clogged Spray jet.</td>
<td>Clean the spray jet in the hand tool.</td>
</tr>
<tr>
<td>Low Suction</td>
<td>Recovery tank is full.</td>
<td>Empty recovery tank.</td>
</tr>
<tr>
<td></td>
<td>Clogged Hand Tool or hose.</td>
<td>Clean Hand Tool and hose.</td>
</tr>
<tr>
<td></td>
<td>Excessive foam.</td>
<td>Add defoamer to recovery tank.</td>
</tr>
</tbody>
</table>

*Before re-filling the solution tank, always empty the solution tank.
Company/Institution

Contact Name

Title

Address

City/State/Zip Code

Phone

Fax

Date of Purchase

Email

Selling Dealer:(Required)

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

<table>
<thead>
<tr>
<th>MACHINE TYPE/MODEL NUMBER:</th>
<th>MACHINE SERIAL NUMBER:</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
<td>1.</td>
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<tr>
<td>2.</td>
<td>2.</td>
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<tr>
<td>3.</td>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
<td>4.</td>
</tr>
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</table>

Facility Description (please circle all that apply)


How did you first learn about Tornado cleaning and maintenance equipment?

- Contacted by local dealer
- Previous experience with Tornado products
- Reputation/Recommendation
- Advertising
- Direct mail
- Website: ______________
- Blog: ______________
- Other

You can complete this form online at www.tornadovac.com/services/warranty-registration-form.aspx

This form may also be returned to:
Tornado Industries
3101 Wichita Court
Fort Worth, TX 76140
Fax: 817-551-0719

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, and service is attempted by non-Authorized Tornado Service Centers, the warranty will be void.

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