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Operation & Maintenance Manual

For Commercial Use Only



Taskforce™ 1200 & 1700 Wet/Dry Vacuums

MODEL NOS.

94220 & 94221 (12 Gallon)

94225 & 94226 (17 Gallon)

94224 (17 Gallon with Trot-Mop)

For Parts List see L2756FDP

Effective 3/13/2006

NOTES

This instruction book covers:

CATALOG NO.	94220	94224	94225	94221	94226
SERIES	D	A	D	D	D
H.P./CFM	1.3 / 112	1.6 / 119	1.6 / 119	1.5 / 112	1.5 / 112
CAPACITY	12	17	17	12	17
RECOVERY	8.8	13.8	13.8	8.8	13.8
WATERLIFT	93"	96"	96"	87"	87"
MOTOR TYPE	115V 2-STAGE BYPASS	115V 2-STAGE BYPASS	115V 2-STAGE BYPASS	230V 2-STAGE BYPASS	230V 2-STAGE BYPASS
POWER CORD	25 FT. GFCI	25 FT. GFCI	25 FT. GFCI	25 FT. GFCI	25 FT. GFCI
DIMENSIONS	18"L x 17"W x 26"H	18"L x 17"W x 26"H	18"L x 17"W x 26"H	18"L x 17"W x 26"H	18"L x 17"W x 26"H
MODEL FEATURES	WET/DRY	TROT-MOP	WET/DRY	WET/DRY	WET/DRY
CERTIFICATION	ETL*	ETL*	ETL*		



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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Long-term buyer protection warranties

Tornado® Standard Warranty Program*	
<p>Warranties do not cover components subject to normal wear or abuse and misuse, and have other limitations not specified here. For full details, contact your Authorized Tornado Distributor, Service Center, or the Tornado Technical Service Department.</p> <p>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.</p>	<p>10 Years: <i>All plastic tanks and rotationally-molded bodies</i></p>
	<p>2 Year: <i>Parts on all Tornado and Tornado/Karcher cleaning equipment</i></p>
	<p>1 Year: <i>Labor on all Tornado and Tornado/Karcher cleaning equipment</i></p>
	<p>1 Year: <i>Warranty on batteries and chargers, one year</i> All battery warranties are handled by the battery manufacturer, please call customer service for more information.</p>

Thank you for choosing Tornado products. We are proud to offer the most complete line of commercial and industrial cleaning equipment in the industry. Our reputation for quality, innovation and durability is unsurpassed.

* Effective January 1st, 2005. Terms subject to change without notice.

- 1) Windshear™ Blower-Dryer, Insulation Blowers, T191, T201, T12/1, CV 30, CV 38, CW 50, CW 100, Pro PAC Vacs, Duo-Upright Carpetkeepers™, Gas & Electric Pressure Washers, and all chargers are warranted for 1 (one) year for both parts and labor.
- 2) Warranties on the EB30 are 90 days (batteries, charger, parts, accessories)
- 3) Warranties on all riding sweepers including the ICC1, KM 100/100 R, KMR 1250, and KMR 1700 are 24 months parts/6 months labor OR 1000 hours of operation, whichever comes first. Warranties on the 75/140 & 90/140 are 24 months parts/12 months' labor OR 1,000 hours of operation whichever comes first.
- 4) All non-wear item parts purchased after warranty expiration are warranted for 90 days.
- 5) Warranty starts from the date of sale to the consumer or, at Tornado's discretion, 6 months after dealer purchased the unit from Tornado, whichever comes first.

Note: Tornado, The Latest Dirt, Floorkeeper, Carpetkeeper, Carpetrinser, Carpetrinser/Dryer, Headmaster, Taskforce, PAC-VAC, T-Lite, Glazer, Windshear, Max-Vac, CV 30, CV 38, and Trot-Mop are trademarks of Tornado Industries.

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Features in Brief:

- Designed for superior ease of operation and storage with high efficiency handling, stack-ability and cord management functions.
- Gasket encased motors that provide low sound levels during operation.
- Industrial grade components which include highly durable, two stage blower suction motors with self-cooling design.
- Patented, unique wet/dry cartridge filters (99% efficient to 1 Micron) that attach to the unit without hardware.
- Custom motor housing design that provides improved maintenance and repair accessibility.
- Optional throwaway paper bags for dry applications.

Overall Design Features:

The Tornado Taskforce 1200 (12 Gallon) & 1700 (17 Gallon) Wet/Dry Vacuums are industrial grade units designed for stack-ability, cord management, durability, maneuverability and ease of operation. They include molded recessed handles for ease of carrying and dumping. The units have been sized to fit in the back seat or trunk of a car. Both units hold liquid to 75% of their capacity and the 17-Gallon unit has it's own drain hose system preventing the need for awkward drain plugs. Both units have a unique inlet pipe design, which protects the wet/dry filter by creating a vortex flow within the tank that forces the debris toward the tank walls. All units also have a custom motor housing design, which reduces the motor sound level and provides good accessibility for maintenance and repairs. In addition, these units have a solid molded handle designed specifically for cord storage.

Standard Accessories, except Trot-Mop Model 94224:

- 14" Plastic Squeegee Tool
- 2-Piece Chrome Plated Extension Wand
- 10' Crush-proof Flexible Hose with Swivel
- Crevice Tool
- Round Brush Tool
- Bare Floor Tool

Safety Instructions

When using this unit, basic precautions should always be followed. Read all instructions before using this unit.



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

Turn off all controls, unplug from power source and allow unit to cool down before attempting any maintenance or adjustment. Turn off and unplug when not in use.

Do not expose to rain or submerge in water. Store indoors. Do not use pressurized water to clean machine. Do not allow to be used as a toy. Close attention is necessary when used by or near children

Use only as described in this manual. Do not leave machine unattended when running.

If machine is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, consult an authorized Tornado service center.

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

Do not put any object into openings. Do not use with any opening blocked. Keep openings free of dust, lint, hair, and anything that may reduce airflow.

Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.

Do not pick up flammable or combustible liquids, such as gasoline, or use machine where they may be present. Do not handle plug or appliance with wet hands.

Unroll the power cord before plugging it into a grounded outlet. Do not pull or carry by cord, use cord as handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.

Check power cord for signs of crushing, cutting or heat damage. If replacement of plug or cord is needed, use only identical replacement parts.

Keep all connections dry and off the ground. Do not allow electrical cords to contact water. Use only extension cords having an electrical rating not less than the rating of the product. Do not unplug by pulling on cord. To unplug, grasp plug, not cord.

Any electrical wiring or repairs performed on this machine should be done by Authorized Service Personnel in accordance with National and Local electrical codes. Use only manufacturer's recommended attachments.

Wear protective clothing, ear plugs and footwear at all times. Use extra care when cleaning on stairs.

Do not operate the unit when fatigued or under the influence of alcohol or drugs.

The manufacturer cannot be held responsible for any damage/injury caused to persons or property because of improper procedures used which are not specified in this manual.

SAVE THESE INSTRUCTIONS



WARNING: Failure to adhere to any of the instructions provided in this manual could result in serious bodily injury or property damage.

BEFORE OPERATING MACHINE:

Read this manual completely before attempting to operate machine. This manual has important information for the use and safe operation of the machine. Keep this manual on file and handy. If additional information is needed, please contact your local distributor or contact us at:

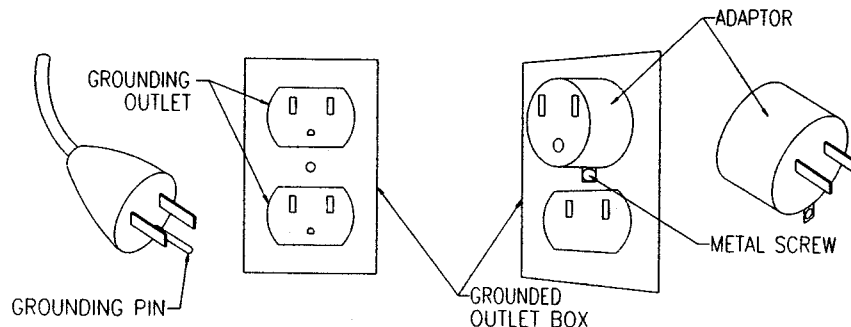
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GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock. This appliance 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 and grounded in accordance with all local codes and ordinances.

WARNING: Improper connection of the equipment-grounding conductor can result in 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 or 230-volt circuit (depending on model in use), and has a grounding plug that looks like the plug illustrated in the sketch below. A temporary adapter that looks like the adapter illustrated the sketch may be used to connect this plug to a 2-pole receptacle as shown, if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, 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.



EXTENSION CORDS

Use only three-wire extension cords (must be 12 Ga. by 3 wire minimum for 50 ft. length or 10 Ga. by 3 wire minimum for 100 ft.) that have three-prong grounding-type plug caps and three-pole receptacles that accept the appliance's plug. Replace or repair damaged cords.

Machine Components



ITEM #	DESCRIPTION	PART #
1	VAC HEAD	-
2	CANISTER	-
3	10' FLEXIBLE HOSE	30257
4	BARE FLOOR TOOL	90714
5	14" SQUEEGEE FLOOR TOOL	30486
6	UPHOLSTERY TOOL	90711
7	ROUND BRUSH TOOL	90712
8	2-PIECE EXTENSION WAND	30258
9	CLOTH BAG (Not supplied w/machine)	19816
10	PAPER BAG (Not supplied w/machine)	90701

Machine Setup and Operation Guidelines

(Refer to Machine Components on previous page)

NOTE: READ ALL SAFETY INSTRUCTIONS IN THIS MANUAL BEFORE OPERATING MACHINE

SET UP

1. Remove the Vac-Head by releasing the side clamps.
2. Remove tools, parts and hose from inside unit.

3. Wheels

TO ATTACH FRONT WHEELS:

- a.) Remove wheel parts from protective bag.
- b.) Set machine on its side and screw front wheels directly into the bottom inserts. Do not overtighten!

TO ATTACH REAR WHEELS:

(You will need a hammer and some type of workbench or table to install the rear wheels).

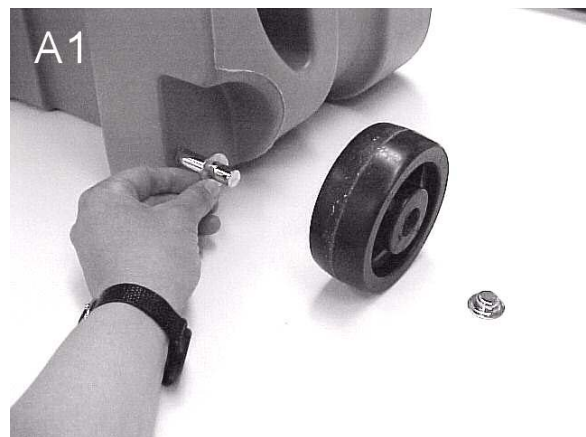
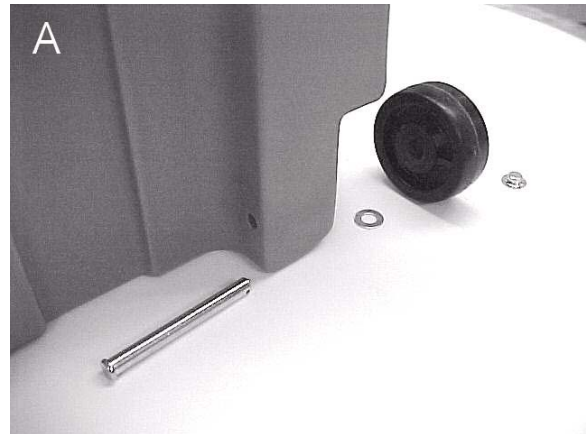
- a.) Set machine on its opposite side and assemble the parts as shown (refer to photo A).
- b.) Insert clevis pin into rear axle hole and place washer on the -Wheel side (refer to photo A1).
- c.) Position machine firmly on a workbench or table edge as shown (refer to photo A2) and use hammer to attach wheel to the unit. Make sure wheels are attached securely.

Repeat the above procedure for the other wheel.

4. Inspect the Wet/Dry filter inside the machine. Remove any obstructions and clean or replace if necessary (see Operation Guidelines).
5. Inspect the Canister for obstructions and clear if necessary.

NOTE: It is not necessary to use filter bags with your machine.

6. Replace the Vac-Head and securely tighten the side clamps.



7. Securely insert the larger end of the flexible hose sleeve into the suction Intake (refer to photo B).
8. Connect the extension wand onto the flexible hose.
9. Connect a floor tool onto the extension wand.
10. Check to make sure the On/Off switch is in the "OFF" position.

NOTE: If your machine is supplied with a tank drain hose, be sure the tank drain Ball Plug is covering the hose opening before starting the unit. The vacuum will not operate properly with the Tank Drain Hose open (refer to photo C).

OPERATION

AFTER SUCCESSFUL COMPLETION OF THE SET UP PROCEDURES, YOUR MACHINE IS NOW READY TO OPERATE. PLEASE OBSERVE THE FOLLOWING STEPS AND PRECAUTIONS AT ALL TIMES:

1. While tightly grasping the flexible hose, start the unit by turning the on On/Off switch to the "ON" position.

2.

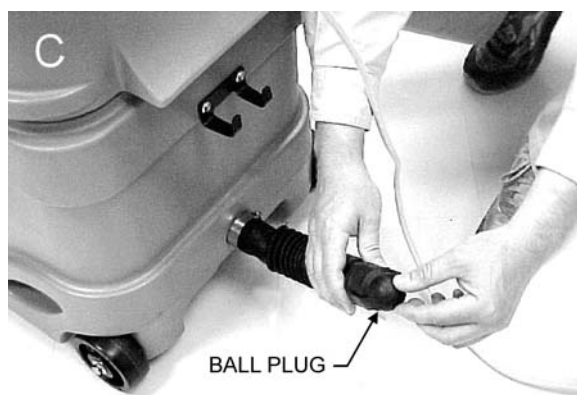
A. WET PICKUP APPLICATIONS:

Using a floor tool move slowly across the area you wish to clean. As the Canister of the machine begins to fill, a float inside the filter cage (refer to photo D) will rise and will close the vacuum motor intake. Suction will stop. At this point, turn the On/Off switch to the "OFF" position and disconnect the power cord from the receptacle.

Remove the Vac-Head and empty the Canister as follows:

Unit Includes Tank Drain Hose:

Place the Tank Drain Hose in an area where drainage will not be obstructed. Pull the tank drain Ball Plug away from drain nozzle to drain. Replace Ball Plug to close off drain hose and attach drain hose back in its holding bracket.



before resuming operation. The Wet/Dry Vac cannot operate properly with the Tank Drain Hose open.

Unit Does Not Include Tank Drain Hose:

Slowly Tilt the Wet/Dry Vac to empty the Canister.

B. DRY PICKUP APPLICATIONS:

If using a paper filter bag, install/replace with a new bag at the start of a new operation (refer to photo E).

If not using a paper filter bag, tilt the Wet/Dry Vac to empty the Canister.

4. Reposition and secure the Vac-Head with side clamps and plug the power cord back into the grounded outlet. Turn the On/Off Switch back to the "ON" position and resume operation.



MACHINE SHUTDOWN

1. After completing your cleaning operation, turn the ON/OFF Switch to the "OFF" position and unplug the Power Cord from the receptacle.
2. Remove the Vac-Head and empty the Canister as follows:

A. WET PICKUP APPLICATION:

Follow the instructions for emptying the canister as described previously in the OPERATION section (2.A.).

B. DRY PICKUP APPLICATION:

Same as above.

MAINTENANCE OF FILTER

For maximum operating efficiency and to insure longer wear, empty and clean vacuum, filter, and attachments after each day's use for maximum performance.

TO CLEAN FILTER:

- A. Remove the Vac-Head from the Canister.

- B. Rinse the Canister and allow to air dry.
- B. Turn the Vac-Head upside down and pull the Wet/Dry filter off of the Vac-head while taking caution not to damage filter (refer to photo F).

a.) Wet Filter Cleaning: Rinse unit with warm water and shake clean. Allow unit to air dry.

b.) Dry Filter Cleaning: Shake filter clean. Periodically rinse unit with warm water. Allow to air dry.

3. Place Wet/Dry filter back onto the Vac-Head and secure with side clamps.
4. Wrap cord tightly around handle (refer to photo G).
5. Wipe down the exterior of the unit with a soft, damp cloth and store indoors.



Troubleshooting Guidelines

<u>Problem</u>	<u>Remedy</u>
1. Suction Is Inadequate	Clear any obstructions in wand and/or other attachments. Clean or replace filter and/or flexible hose.
2. No Suction	Check to see if vacuum canister is full. Empty canister or replace filter bag if necessary. Check that float is not stuck, obstructing vacuum motor intake.
3. Vacuum will not start	Check to make sure the power cord is securely connected to power source. Check wall breaker or fuse for circuit overload. If motor brushes are worn, contact Tornado Technical Service.