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**Operations & Maintenance Manual
For Commercial Use Only**



**PROGLAZER®
MODEL NO: 97575T,97575TC**

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Save These Instructions

NOTES

This illustrated instruction books covers:

Model	97575T	97575TC
Pad Size	28"	28"
Pad Speed	1850 RPM	1850 RPM
Clutch	No	Yes
Width	29.44"	29.44"
Length	52.85"	52.85"
Engine Manufacture	KAWASAKI	KAWASAKI
Engine Size (CC)	603 c.c. V-Twin	603 c.c. V-Twin
Engine (HP)	17	17
Starter Voltage	12 VDC	12 VDC
Deck Material	CAST ALUMINUM ALLOY	CAST ALUMINUM ALLOY

All specifications are subject to change without notice



PROTECT THE ENVIROMENT
Please dispose of packaging materials in an enviromentally safe way according to local waste disposal regulations.

Always remember to recycle.

IMPORTANT SAFETY INSTRUCTIONS
READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE

WARNING:

Keep hands, feet, shoestrings, and neckties away from all moving parts while the machine is in operation. The exhaust system gets very hot, so keep hands, clothing and any combustible items away from the engine while it is hot.

Tornado machines are built tough and durable, but do not abuse the machine or mechanical damage and/or personal injury could result. With proper care and maintenance this unit will give you trouble-free operation for years to come.

WARNING:

LETHAL EXHAUST GASES

Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odorless, colorless, tasteless, and can cause death if inhaled. Although NFPA 58 Sec.11.13. (2008 Edition) permits these machines to be used in buildings frequented by the public, Tornado suggests avoiding inhaling exhaust fumes and to never run the engine in a closed building or confined area without proper ventilation.

Although LPG burns more efficiently and emits less carbon monoxide than gasoline, some carbon monoxide is produced. Avoid inhaling exhaust gases - especially over prolonged periods of time. Do not allow engine to run unattended.

WARNING:

TO REDUCE THE RISK OF FIRE OR INJURY

If the handle throttle lever is moved suddenly, high starting torque will cause the machine to move, and may cause damage or injury. Don't wear loose-fitting clothing while near the machine, and take care not to accidentally move the throttle lever.

The machine must not be running while:

- Leaving machine unattended
- Changing pads
- Attempting any maintenance or adjustment

These machines should not:

- Be used by unqualified or untrained personnel
- Be used unless they are properly maintained and adjusted
- Be used in areas with obstructions such as thresholds, etc.
- Be used in areas with loose tiles
- Be used in rooms without proper ventilation

WARNING:

Do not put hands under base - rotating parts could cause injury. Always keep hands, feet, and loose fitting clothing away from moving parts to prevent possible injuries. Use care to keep any electrical supply from contacting moving parts such as floor brushes or pads.

- Do not use machine in areas where flammable and/or explosive vapors or dust are present.
- Never use a device to lock the switch lever in the "ON" position.
- Do not add weight to this machine - this will upset the balance and may cause motor overload.
- Pad holders and brushes must be properly maintained to insure maximum cleaning results.
- To avoid fire, do not use with a flammable or combustible liquid to clean a floor.
- Risk of explosion. Floor sanding can result in explosive mixture of fine dust and air. Use this machine only in a well-ventilated area, free from any flame or match.
- Do not store with brush, pad holder or pad on floor.
- Refer to this manual for additional instructions.

OPERATING AND MAINTENANCE INSTRUCTIONS

OPERATION OF THE MACHINE

Your Tornado® Floor Machine is ready for operation as soon as it is unpacked. Remove the machine from the pallet and discard bolts.

Before beginning any operation, please read your Kawasaki Owners Manual.

The unit comes shipped without fuel in the tank. Be careful not to overfill the tank. The best method for filling the tank is to have the tank weighed at the filling station. The full steel tank should weigh no more than 43 pounds.

Check the engine oil level. The unit will come shipped with oil. Always keep the engine oil level between the full and add marks on the dipstick. Replace the oil by performing the following steps:

- Park your ProGlazer® on a level surface and make sure the engine is stopped.
- Turn the oil cap counter clockwise and then lift from the fill tube.
- Wipe the dip stick clean and push it back into the oil fill tube until the cap seats, and then withdraw it to check the oil level. (Do not screw in to check level.) Oil level should be between the "ADD" and "FILL" marks. Add oil if necessary.
- Replace oil cap and tighten.
- If the oil is low, add API Service Classification SF, SG, SH, or SJ oil having a SAE viscosity grade appropriate for the expected temperatures as indicated in the Kawasaki Owners Manual.

The machine is shipped with the battery connected.

Inspect all fuel hoses and fittings for leaks. Repair any leaks immediately.

Check the carb filter and air filter for debris. Clean and replace if necessary.

Connect fuel hose to tank by (hand tightening) the hose fitting to the tank. Make sure the connection is tight to prevent leaks.

PROGLAZER® STARTING PROCEDURE

These units are equipped with a 12-volt starter and key switch.

1. Tilt machine back so the floor pad is off the floor.
2. Turn the fuel tank knob slowly until you hear the flow of the fuel into the fuel system.
3. Push in the spring covered pin in the center of the vacuum lock-off at least 3 times (The vacuum lock-off is located on the left-side of the machine within a bracket).
4. Turn the key switch fully counterclockwise to the “Start” position and hold it there until the engine starts. Do not crank more than 5 seconds at a time, and wait at least 15 seconds between tries when cranking. See Trouble Shooting Table if the engine does not start after several tries.
5. After the engine starts, move the throttle to the slow position. Do not operate buffer until the engine has warmed up sufficiently, recommended as 3-5 minutes at idle.
6. Lower pad to floor slowly, and operate at full throttle.

STOPPING ENGINE

1. Lower the engine speed to an idle, and allow the engine to idle for about one minute.
2. Turn fuel valve on tank to the closed position and allow the engine to continue running until it runs out of fuel.
3. Turn the key to the off position.

Caution:

In an emergency, turn the key to the off position, and close the fuel valve. Backfiring may occur when using this method.

MOUNTING PAD AND OTHER ATTACHMENTS

(WARNING: TURN OFF UNIT BEFORE STARTING PAD INSTALL)
(WARNING: REMOVE LP TANK BEFORE TURNING OVER THE MACHINE)

To mount or remove a pad, tilt the machine back until it rests on the back wheels. Unscrew the padlock nut while gripping the pad and pad driver. Position a new pad concentric with the pad driver and retighten with the pad-lock nut.

To remove the pad driver, tilt the machine on its side. Use a 3/4” wrench to hold the main shaft which is located between the four bolts in the front and on the top of the machine. Then, rotate the pad driver counterclockwise to unscrew it from the main shaft.

For long life and best results always use genuine TORNADO® accessories.

MAINTENANCE OF THE PAD HOLDER

Remove the pad holder when the machine is not in use, and hang on wall peg or similar holder.

POLISHING

Use 3/4” to 1” thick BEIGE high speed burnishing pads. Floors should be dry mopped to remove grit.

SPRAY BUFFING

Use 3/4" to 1" thick HOG HAIR high speed burnishing pad. The spray buff solution should be applied to the floor ahead of the machine. Do not run the machine into the spray or mist of the spray buff solution.

DAMP BUFFING

Use 3/4" to 1" thick BEIGE high speed burnishing pad. Use a well-wrung out mop to apply damp buffing solution. Go over dampened surface with machine until surface is dry and has a high glaze.

STORING

Store with pad off the floor by tilting machine back on the support wheels.

BELT MAINTENANCE

(WARNING: REMOVE LP TANK BEFORE TURNING OVER THE MACHINE)

To change a broken or worn belt, turn the machine on its side and remove the pad and pad driver. Using a wrench, loosen the hex bolt for the pulley tensioner. Once the tensioner is loose, the belt can be easily removed. Slip the old belt off the pulleys and reattach the new belt. Attach the pulley tensioner back into position and retighten its bolt. The tensioner should provide the belt with a 0.16 inch belt deflection when a force of 2 pounds is applied against outside of belt. Turn machine upright immediately after service is completed.

Maintenance Table:

These are typical service intervals. Service more frequently under more severe operating conditions.

Type of Service	Daily	First 8 Hrs.	Every 25 Hrs.	Every 50 Hrs.	Every 100 Hrs.	Every 200 Hrs.	Every 300 Hrs.	Every 500 Hrs.
Check Oil for Proper Fill Level	++							
Check Bonnet Air Filter for Obstruction	•							
Check Cleaning Pad for Wear	•							
Check Drive Belt Tension	•							
Inspect for Loose Bolts & Connections	•							
Change Engine Oil ++		•		•				
Clean Air Cleaner Foam Element			•					
Clean Air Cleaner Paper Element				•				
Tighten Nuts, Screws, & Brackets			•					
Clean and Adjust or Replace Spark Plug					•			
Clean Engine Cooling Fins					•			
Change Oil Filter						•		
Replace Air Cleaner Paper Element						•		
Adjust Engine Valve Clearance							KD	
Clean and Lap Valve Seats							KD	
Clean Cylinder Heads of Deposits							KD	
Recertify Emission Control System								^^

KD = Have an authorized Kawasaki Engine Dealer perform these services.

^^ = Re-certify machine to meet EPA and CARB SORE Regulations

++ MOTOR OIL: Consult the Kawasaki Owners Manual for oil viscosity recommendations.

General capacity of engine oil is 1.9 US quarts. Oil level must be checked when engine is tilted forward

Description	Catalog #
Air Filter	KW11
Air Pre-Filter	KW11A
Spark Plug	KW40
Oil Filter	KW5
Steel Propane Tank w/Gauge	30396

ITEM	CHECK BOX
- Check condition of pad (Replace if torn or dirty)	
- Wipe entire unit down with cleaning solution (engine must be cool)	
- Verify pad retainer is still in place	
- Store Propane tank outside of building	
- Store Pro-Glazer back on casters, so the pad is off the floor	
- Store the Pro-Glazer in a clean dry place	
- Report any problems with unit	

Troubleshooting Table:

SYMPTOM	POSSIBLE CAUSES
Will Not Start/Hard to Start	Empty fuel tank.
	Faulty carburetor, ignition coil, or valves.
	Faulty battery or ignition key switch.
	Faulty head gasket, piston, cylinder, valves, or piston ring.
	Loose cylinder head bolts.
	Clogged air filter elements.
	Faulty fuel pressure regulator.
	Defective, poorly gapped, or loose spark plug.
Engine Lacks Power	Faulty carburetor, ignition coil.
	Faulty head gasket, piston, cylinder, valves, or piston ring.
	Loose cylinder head bolts.
	Clogged air filter elements.
	Faulty fuel pressure regulator.
	Defective, poorly gapped, or loose spark plug.
	Clogged cooling air (bonnet) element. (Overheat)
	Dirty cooling fins. (Overheat)
	Low engine oil level. (Overheat)
	Excessive carbon deposits in combustion chambers. (Overheat)
Engine Speed Won't Increase	Faulty cable connection, or engine governor.
Engine Stops Running.	Out of fuel.
	Severe condition causing engine to overheat.
Smell of Burned Rubber	Drive belt out of adjustment.
Machine Vibrates	Loose bolts.
	Pad not centered.
Machine "Digs In" While Running	Operator is bearing down too hard.



TORNADO®

Warranty Registration Form

Please Print Clearly

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.

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

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

<p>How did you first learn about Tornado cleaning and maintenance equipment?</p> <ul style="list-style-type: none"> <input type="radio"/> Contacted by local dealer <input type="radio"/> Previous experience with Tornado products <input type="radio"/> Reputation/Recommendation <input type="radio"/> Advertising <input type="radio"/> Direct mail <input type="radio"/> Website: _____ <input type="radio"/> Blog: _____ <input type="radio"/> Other 	<p>You can complete this form online at www.tornadovac.com/services/warranty-registration-form.aspx</p> <p>This form may also be returned to :</p> <p>Tornado Industries 3101 Wichita Court Fort Worth, TX 76140 Fax: 817-551-0719</p>
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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.