

## OPERATING INSTRUCTIONS

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### Follow All Safety Precautions:

- Always disconnect the electrical power, or turn off the gas, to the water heater before starting.
- Cool the hot water in the tank by opening, and running a hot water faucet.
- Only use cordless drills, GFCI protected outlets and cords, clean up spills and practice all electrical safety guidelines.
- Never unscrew the drain valve, tool or any other plumbing connection while it is under pressure.

### Notes and Cautions:

- The tank must be completely full of water with no air in it when cleaning.
- Never energize the water heater elements or turn on the gas if the tank is not completely full or damage may occur.
- Do not open any water faucets during the entire cleaning process or sediment debris could plug up your fixtures.
- Never dispose of sediment in the sewer lines. Trap it in a bucket outside. It is good fertilizer.
- There is a risk of spilling large amounts of water. Until you are confident, only attempt this procedure if there is a floor drain present and you are in an area where water will not cause damage. If the drain valve or the tool breaks during this procedure, turn off the cold water supply valve to the water heater, ensure the tank is unvented (all hot water faucets are off), and plug the drain hole with a rag. As long as the tank remains unvented and air can't get in it will hold the water. When ready, shove a hose or tube into the broken part and drain the tank. Remove the broken part with an easy out or a hammer and screw driver.

### Tools Needed:

- Turbo Tank Cleaner
- Cordless Drill
- Wrench for removing drain valve
- \* Old towel or rags to prevent mess
- \* Garden Hose for transferring the slurry
- \* Buckets to trap sediment and catch water

### Operation of the Turbo Tank Cleaner:

1. Turn off the electrical power or gas to the hot water heater and verify.
2. Cool the hot water in the tank by opening, and running a hot water faucet.
3. Ensure all hot water faucets are off then turn off the cold water supply valve to the water heater.
4. Place a towel or rag under the water heaters drain valve and open it to relieve the tanks pressure. A small amount of water should spirt out then quickly stop or come to a slow dribble. The tank is now airlocked.

**Note:** If this doesn't happen stop!!! The drain valve may be plugged up. The cold water supply valve may be leaking or air is getting into the system. Fix the problem before proceeding. The entire tank may be drained at this time if desired but it is not recommended.

5. Remove the tanks drain valve and insert the Turbo Tank Cleaner tool. Screw the tool loosely into the drain hole.

**NOTE:** Some water will spill. If there are excessive amounts of sediment may be necessary to spin the agitator or work it back and forth as you push it into the sediment so that it does not bind up. If you have to, straighten out some of the kinks in the agitator. Then midway through the cleaning process pull the tool, bend the agitator into a half moon shape (most aggressive), and complete the cleaning.

6. Connect a common garden hose to the tool and run the other end outside or to an area that can safely dispose of the water and sediment.

**NOTE:** The end of the hose may be placed in a large bucket to trap the sediment. There must not be any kinks or restrictions in the hose or it may plug up. Expandable hoses are not recommended because they have restrictions in the ends.

7. Open the water heaters cold water supply valve. Water will flow through the tool and out the hose.

**NOTE:** Refill the tank **completely** if it was drained! This is actually very important. Air in the tank acts like a huge spring pushing down on the water giving it pressure. If you start to clean before the air is fully compressed there will be lower water pressure and your hose may plug. When you turn off the water to unplug the hose or remove the tool it will continue to flow and make a mess because it is being pushed out by the compressed air. Do not open or use any hot water faucets during the entire cleaning and flushing process.

8. Adjust the seal nut (wing nut) and monitor its tension during use to **prevent it from overtightening** or leaking excessively.

**NOTE:** Always install the rubber shaft seal with the nipple facing inward or the seal nut may over tighten and break. A little leakage is good. Lubricate the seal before each use with a food grade oil or grease.

9. Attach a variable speed cordless drill to the end of the tank cleaner axil shaft. **Never use a corded drill!!!**

10. Slowly and gently rock the agitator forwards and backwards a few times to ensure it isn't bound up. Increase the speed a little to remove sediment faster. There is no need to spin at high RPM. For more aggressive cleaning, bend the agitator into a half moon shape. Hold the tool and support it as you spin. If the tool suddenly jerks or feels different stop and check the grinding chamber for metal debris. Towards the end of the cleaning you may alternate between forward and reverse to sweep the agitator back and forth across the bottom of the tank.

**NOTE:** The tool may be pulled and reinstalled by following steps 11 – 13, then 5 -7.

11. After cleaning, turn off the cold water supply valve to the water heater and remove the drill.

12. Pinch off the garden hose then remove it from the tool. Open the hose over a bucket to catch the water siphoning back. Very little water will come out of the tool because the tank is air locked.

13. Cap off the tool and remove it. Reinstall the drain valve. Ensure the drain valve is closed.

14. Open the cold water supply valve to the water heater. Ensure the tank is completely full and there are no leaks.

**NOTE:** Damage to both gas and electric water heaters will occur if they are operated with air in the tank.

15. Restore electrical power or gas to the water heater.

*Good luck. When you are all done, please let us know how it went by leaving a review. Your feedback is absolutely vital for us to perfect a high quality low cost product. Send me pictures of that sediment!!*

*For technical support call 1-208-520-5579*