Congratulations on the purchase of your new HotShot2800J Asphalt Crack Heat Lance.

Your new heat lance is designed only for it’s intended use, and that is to prepare cracks in asphalt pavement for permanent crack sealer.

Please read and follow these operational and safety precautions before using your new equipment.

Upon unpacking your new equipment, please inspect it for damage or missing parts and call us at 1-800-689-2098 to report this situation.

The equipment is ran and tested at the manufacturing facility so the engine and compressor have already had oil added. Do not add oil until you have checked the levels. Follow the manufactures instructions included with your equipment.

We recommend periodic maintenance for your Heat Lance. Keep all fluids topped off, check belt for tightness and check for any loose or missing parts.

DO NOT OPERATE UNIT IF FLUIDS ARE LOW, HOSES ARE LOOSE OR THE UNIT HAS DAMAGE OR MISSING PARTS!

**Before Start-up:**

Make sure all hoses are attached, and engine has clean gasoline and the propane tank has fuel in it.

By following these instructions, you will enjoy your new Heat Lance for many years to come.
OPERATION

1. Attach the lance hose to the wand using the quick disconnect.
2. Check all fluids, follow the engine and compressor manufacture instructions.
3. Always wear protective clothing including eye and ear protection.
4. Start engine and allow it to warm, push throttle lever all the way to high speed, DO NOT BEND THROTTLE LEVER!
5. Adjust the black knob on the regulator to achieve an approximate gap of 1/2” from bottom of knob to top of regulator dome.
6. SLOWLY open propane bottle valve to only 1 full turn. (Opening too quickly will cause Excess Flow Valve in bottle to shut off)
7. Point the lance away in a safe direction and begin pushing piezo igniter repeatedly while turning the knob on regulator in 1/4” increments until the knob has been rotated 2 full turns, if lance did not light, turn the knob back where you started from and begin the process while slowly turning the knob out 1/4” increments.
8. The lance will make a “POP” which means that it is trying to light and it will make a “HISS” when it lights. Allow lance to heat for several minutes before using it as it will be necessary to relight and adjust while it warms up.
9. CAUTION, the barrel is very hot during operation even though the barrel is not glowing red. Use extreme caution!
10. The barrel will begin glowing red about 1/2 to 3/4 up from the tip, Adjust the black regulator knob if the barrel gets red on the top. If this happens, you’re using too much fuel.
11. When finished, shut off the propane completely and allow compressor to purge remaining fuel from hoses and lance.
12. Turn off engine and place lance in holster.
13. ALWAYS WEAR PROTECTIVE CLOTHING AND EYE PROTECTION WHILE OPERATING YOUR HEAT LANCE!!
Troubleshooting

Problem: The wand will not light:

This is usually always caused by an out of balance fuel-air mixture. Make sure engine is running at high speed (2800 RPMs) readjust regulator so there is a 1/2” gap on threaded shaft and very slowly turn on propane bottle no more than 1 full turn. Begin pressing piezo and slowly turning knob at the same time until you hear a Pop or hiss sound.

Problem: Regulator adjustment will not light wand:

Remove spark plug and inspect for debris, re-gap plug to .70 or about the thickness of a nickel. Reinstall and inspect piezo and plug wiring for damage and proper installation.

Problem: Wand wont stay lit or regulator needs constant adjustment:

Check belt for tightness, 1/2” of play is normal. Check engine throttle lever for damage and reset engine RPM to 2800 using a tachometer.

Problem: Wont light in cold weather:

In cold weather and during prolonged run periods, the bottle may freeze up. This will cause below normal propane fuel pressure and unit will be hard to light and will not stay lit. We recommend that you carry an extra cylinder of fuel with you, keeping it stored in a warm place and change bottles as necessary.

Problem: None of the above will work:

Only after trying everything above, and after the wand has cooled, disassemble the barrel, remove the 6” stainless nipple from lance pipe and check the orifice end of the nipple mixer for possible debris in the two small orifice holes. DO NOT RE-DRILL THESE HOLES!!! Gently remove any debris in the orifice and reassemble the barrel and nipple using anti-seize lubricant.
Maintenance and Safety

Periodic maintenance should be performed to insure your new Heat Lance is always ready to perform at it’s best. This will include:

1. Maintaining oil level in compressor. See compressor owners manual. We recommend Castrol 30 WT Non Detergent motor oil.
2. Maintaining oil level in engine. See engine owners manual. We recommend Castrol GTX 10W30 motor oil.
3. Keeping air filters on engine and compressor clean.
4. Keeping belt tight.
5. Checking all hardware for loose parts and keeping all fittings tight.
6. Storing your Heat Lance in a dry place out of the weather.
7. Checking all hoses for wear and tear. Replacing as necessary.
8. The operator must be a responsible adult, familiar with the equipment wearing eye, ear and skin protection at all times.