



Model Numbers: Ti100-200, Lx150-400
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LOW WATER PRESSURE SWITCH (LWPS) (P/N 83223 & 83223-1) TESTING PROCEDURE



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Trinity Ti and Lx boilers, up to and including the Lx400, are equipped with a low water pressure switch (LWPS) that acts as a safety limit to prevent the boiler from firing if the pressure drops too low. Below is the recommended test procedure for testing the LWPS.

Test Procedure Steps

- 1) Ensure that the boiler is filled with water and that no air is circulating.
- 2) Using the fill valve, pressurize the boiler to at least 15PSI.
- 3) Using the thermostat or domestic hot water contacts, generate a call for heat and see that the burner fires.
- 4) Turn off the water fill valve. Using a boiler drain, reduce the boiler pressure to 8PSI. Be careful to ensure that the boiler pressure does not drop to less than 5PSI.
- 5) Using the thermostat or domestic hot water contacts on the boiler, generate a call for heat and verify that the boiler locks out. Refer to section titled "Boiler Lockout Codes".
- 6) Using the boiler fill valve, refill the boiler to a minimum of 15PSI. Clear the error code or reset the power to return to normal operation.
- 7) Run the boiler for at least 5 minutes to ensure that no air is present and that the pressure remains stable.

Boiler Lockout Codes

Ti Boilers - May display an ER4 or ER6 error code if the pressure switch is tripped.

Lx Boilers - May displays either a LOCKOUT 67 ILK off or a HOLD 67 ILK off if the pressure switch is tripped.

Restoring Normal Operation

If the Ti/Lx boiler fails to lock out when the water pressure is reduced 8PSI, lower the pressure to 5PSI and try again, if the boiler still fails to lockout replace the LWPS.

If the Ti/Lx boiler locks out and the water pressure is at least 15PSI, use the fill valve to raise the pressure to 20 PSI, clear the error code and try again. If the boiler still locks out when the pressure is raised to 20PSI replace the LWPS.

NOTICE

Older Ti Boilers - If older Trinity Ti boilers are powered down before the water pressure is returned to normal, the boiler may display no error code at all and will indicate that it is firing but no flame will be present. To restore normal operation, return the water pressure to at least 15PSI and reset the power.

Technical Support

If you require assistance, contact NTI Technical Support by email, fax, or our toll free number.