

TECHNICAL SERVICE DEPARTMENT Technical Service Bulletin 1-800-432-8373



Electronic Spark PowerVent Troubleshooting Table

NATURE OF TROUBLE	POSSIBLE CAUSES	SERVICE
No Hot Water	1. Electrical supply turned off	Check fuse panel and on/off switch
		Turn on gas supply
	2. Gas supply turned off	Check 1 and 2 above. Then see Unable to
	3. Pilot not lit	light pilot and Pilot does not stay lit
		See Main burner will not stay lit
	4. Main burner not lit	
Not Enough Hot Water	1. Thermostat set too low	Adjust thermostat
	2. Burner orifice is clogged	Inspect and clean
	3. Low gas pressure	Check gas supply pressure and manifold
	A Mantina da su la Colonida di su inconse	pressure
	4. Venting downdraft (or other improper	Check for proper up draft venting. Check
	draft)	for other drafts that could blow out the pilot light
	5. Clogged flue	Inspect and clean flue way
	6. Thermostat out of calibration	Conduct partial draw test.
	o. Thermostat out of canonation	Reseat thermostat in bracket
	7. Defective dip tube	Check and replace dip tube
	8. Heater is undersized	Adjust Peak Hour Demand
Unable to light pilot	1. Thermostat or ECO is damaged	Check for both thermostat and ECO;
8 · F	2. Transformer does not produce 24V	replace thermostat
(and I don't hear the spark ignitor)	3. Vacuum safety switch damaged	Check transformer and replace
2	4. Blower motor does not run	Check vacuum switch and replace; check
		vacuum from blower motor and repair
or	5. Gas supply turned off	Check blower motor and replace
	6. Ignition control module damaged	Turn on gas supply
	7. Gas cock knob dial not positioned	Check ignition module and replace
(but I can hear the spark	correctly	Check lighting instructions. Set control
ignitor)	8. Gas control valve damaged	knob
		Check gas control valve and replace
	9. Pilot burner orifice clogged	Clean or replace
	10. Pilot tube pinched or clogged	Clean, repair or replace
	11. Air in gas line	Dance sin farm and line
	12. Spark gap to large	Purge air from gas line Check spark gap and reset to 1/8"
	13. Spark ignitor damaged	Check spark ignitor and replace
Pilot does not stay lit	Venting downdraft (or other improper	Check for proper up draft venting. Check
Thot does not stay in	draft)	for other drafts that could blow out the
	diati	pilot light
		Inspect and clean flue way
	2. Clogged flue	Inspect and clean supply tube and pilot
	3. Pilot partially clogged	burner
	4. Improper gas pressure	Check and adjust supply side
	5. Improper ground	Check grounding of pilot burner and main
		burner
	6. Spark ignitor is damaged, dirty or has	Check, repair or replace spark ignitor
	loose connection	Check that pilot flame covers the flame
	7. Poor flame rectification	rod and is steady and blue
Main burner will not stav	1. Low gas pressure	Check gas supply pressure



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lit	2. Main burner orifice clogged	Clean or replace
	3. Main burner supply tube clogged or	Clean, repair or replace
	pinched	
	4. Improper venting	Check venting for proper sizing and
		down drafts
	5. Poor flame rectification	Check that pilot flame covers the flame
		rod and is steady and blue
Scale on burner and pilot	1. Condensation	Excessive condensation caused by
assemblies	1. Condensation	undersized heater, poor venting or
assemblies		continued use
	2 Contominated atmosphere	
	2. Contaminated atmosphere	Check for contaminant causing chemicals near the heater
Sooting	1. Combustion air inlets or flueway is	Remove obstruction or debris from heater
	restricted	or flueway
	2. Not enough combustion or ventilation	Improve combustion air or ventilation air
	air supplied to room	supply
	3. Improper gas pressure	Check and adjust
	4. Burner orifice dirty	Inspect and clean
Yellow flame	1. Scale on top of burner	Shut off heater; allow to cool; clean
Tello W Hallie	1. Scale on top of carner	burner plate
	2. Burner orifice dirty	Inspect and clean
	3. Flue way clogged	Inspect and clean
	4. Improper gas pressure	Check and adjust
	5. Not enough combustion or ventilation	
		Improve combustion air or ventilation air
	air supplied to room	supply
Burner flame noisy	1. Improper gas pressure	Check and adjust
(whistling)	2. Burner orifice dirty	Inspect and clean
Burner flame floats	1. Improper gas pressure	Check and adjust
	2. Wrong orifice	Install correct orifice
	3. Clogged flue	Inspect and clean flue way
Burner flame too high	1. Improper gas pressure	Check and adjust
_	2. Wrong orifice	Install correct orifice
Water too hot	1. Thermostat setting too high	Adjust thermostat to lower setting
	2. Thermostat out of calibration	Check and replace thermostat
Slow hot water recovery	1. Burner orifice clogged	Check and clean
	2. Excessive drafts	Locate and eliminate drafts
	3. Clogged flue	Clean flue chamber
	4. Improper gas pressure	Check and adjust
Noisy water heater	Scale or sediment build up in bottom of	Clean tank
1	-	Clean tank
(rumbling and sizzling)	tank	Deart and tichten
	2. Baffles loose	Reset and tighten
	3. Condensation on main burner	Inspect for condensation (normal) and tank leaks
Excessive relief valve	1. Excessive water pressure	Install proper pressure reducing valve on
operation	1	cold side.
1	2. Excessive temperature	Check for open or closed system. Install
	F	expansion tank.
		Check thermostat; lower setting or
		=
		replace

Rusty or black water	1. Anode rod dissolved	Check anode rod and replace	



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	2. Excessive sediment build-up	Drain tank; replace tank if sediment build up is excessive
Water heater is leaking	 Cold in or hot out joints T&P valve Inner tank has a pin hole 	Check joint and repair Check valve and replace Replace water heater
Smelly water (rotten egg odor)	Bacteria formation inside water tank	Clean tank using chlorine bleach Replace anode rod if deteriorated Add automatic chlorine feeder to cold water inlet side of tank
Milky water	Aerated water	Allow a glass of hot water to set for a few minutes. If the water turns clear, the condition is a natural occurrence. See water chemistry section.