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Cooking Appliance

TROUBLE SHOOTING GUIDE

Effective: 12/15/06

Guides are only intended for use on Atwood® products by service technicians who have successfully completed Atwood® training. This guide should be used in conjunction with the appropriate Instruction Manual provided with the product and any applicable Industry Standards. This is not intended to be a complete list. Please direct questions concerning service of Atwood® products to 866-869-3118 before proceeding.

CAUSE	SOLUTION
RANGE PILOT WON'T LIGHT OR STAY LIT	
Insufficient gas pressure	1. Check for gas leaks and have regulator checked by qualified LP gas technician
	2. Check gas supply
	3. Set pressure to 11" W.C. with two or more gas appliances running
Supply valve closed	Turn valve on
Blocked pilot orifice, or blocked flash tubes	Clean pilot orifice with toothpick; clean flash tubes
Pilot flame cover out of position,	Reposition pilot flame cover, and/or remove carbon and/or coated with carbon build up.
BURNER(S) WON'T LIGHT OR STAY LIT	
Insufficient gas pressure	Check for gas leaks, have regulator checked by qualified LP gas technician
Incorrect air/gas mixture	Adjust air shutter if applicable
Blocked orifice	Clean with toothpick
BURNER LIGHTS, BUT FLAME IS TOO SMALL	
Improper gas pressure	Check for gas leaks, have regulator checked by qualified LP gas technician
Improper air/gas mixture	Adjust air shutter if applicable
Problem burner valve	Replace burner valve
Blocked orifice	Clean with toothpick
BURNER FLAME LIFTS OFF BURNER HEAD	
Gas pressure too high	Have regulator check by a qualified LP gas technician
OVEN BURNER LIGHTS, BUT FLAME REMAINS VERY SMALL AND OVEN HEATS VERY SLOWLY	
Improper gas pressure	Check for gas leaks, have regulator checked by qualified LP gas technician
Blocked orifice	Clean with alcohol and cotton swab
OVEN BURNER FLAME LIFTS OFF BURNER AND OVEN CYCLES TOO FREQUENTLY	
Gas pressure too high	Have regulator checked by qualified LP gas technician, or improper gas mixture
OVEN COOKS UNEVENLY AND/OR FOOD BURNS ON THE BOTTOM	
Poor oven ventilation	Oven too full for proper circulation - must have 1" clearance in all directions. Ventilation holes in oven bottom (shelf above burner) are covered. Check the top vent (on back of range) it must be clear of all insulation, etc.
Problem thermostat	Replace thermostat.
Oven not preheated	Oven must be preheated at least 10 minutes.
Thermo bulb out of position	Thermobulb must be in clip on back of oven - pans cannot touch thermo bulb.

OVEN PILOT OUTAGE

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|---------------------------------------|--------------------------------------|
| Safety Thermal Bulb out of position | Re-position the safety thermal bulb. |
| Problem thermostat | Replace thermostat |
| Blocked oven vent | Remove obstruction from vent |
| Incorrect oven burner gas/air mixture | Readjust air |

YELLOW FLAME TIPS

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|--------------------------------------|--|
| Improper gas-air mixture | Adjust air shutter if applicable |
| Low gas pressure | Check gas supply |
| | Check for leaks and have the regulator checked |
| | Set pressure to 11" water column |
| RA Ranges and Cooktops | |
| Improper orifice to burner alignment | Realign burner head and orifice tube assembly |
| | Replace orifice |

Operation and Trouble Shooting Guide - 33 Series

TO LIGHT THE PILOT

- Turn the oven knob to the pilot position and push in.
- Hold in for at least 5 seconds until pilot is well established.

PILOT WILL NOT COME ON

- Check to see if the gas is turned on.
- Is there gas in the tanks?
- Check for blockage of the orifice, pilot assembly, or pilot line.
- Check for kinks in the pilot line.

PILOT WILL NOT STAY ON

- Hold oven knob, pilot position, for up to 30 seconds.
- Check gas supply.
- Confirm that thermocouple is fully inserted into the thermocouple holder.
- Pilot flame out of position. Pilot flame is not engulfing thermocouple. Pilot assembly needs to be adjusted so that pilot flame is engulfing thermocouple.
- Test thermocouple.
- Thermostat knob is bottoming out on manifold cover (face plate). If knob can not fully engage, the magnet in the thermostat will not be established. Move manifold out further beyond face plate.

THERMOSTAT CALIBRATION

- The ideal temperature variance is 25 degrees (plus or minus). This means that if the thermostat is set at 350 degrees, the temperature will range between 325 and 375. If the temperature exceeds 50 degrees, plus or minus, check for a kinked capillary tube.