

## Pilot

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 815-877-5700 or [harry@atwoodmobile.com](mailto:harry@atwoodmobile.com)



## PILOT OUTAGE

### CONDITION

- Gas pressure incorrect
- Blocked “U” tube
- Improper main burner alignment
- Improper air adjustment
- Weak thermocouple
- Poor pilot flame
- Weak gas control magnet
- Defective E.C.O. in control

### SOLUTION

- Set pressure to a minimum of 11½ W.C. with two or more appliances running
- Remove obstruction
- Re-align main burner and main burner orifice holder and gas valve
- Adjust main burner air shutter approximately 1/4 open
- Replace thermocouple
- Clean or replace pilot orifice
- Replace gas control
- Replace gas control and check the pilot flame. It should be high enough to engulf the thermocouple at all times.

## PILOT OUTAGE WHEN BUTTON OR KNOB IS RELEASED

### CONDITION

- Thermocouple not hot
- Thermocouple loose
- Weak thermocouple
- Weak gas control magnet
- Defective E.C.O. in control

### SOLUTION

- Hold button or knob for 30 seconds before releasing
- Tighten connection at gas control
- Replace thermocouple
- Replace gas control
- Replace gas control

## MAIN BURNER WILL NOT IGNITE

## **CONDITION**

- Blocked main burner orifice
- Main burner flame spreader misalignment
- Blocked main burner
- Improper air adjustment
  
- Blocked “U” tube
- Gas control out of calibration

## **SOLUTION**

- Clean or replace orifice
- Square flame spreader to end of main burner
- Remove blockage
- Adjust main burner air shutter approximately 1/4 open
- Remove blockage
- Replace gas control

## **ERRATIC MAIN BURNER FLAME**

### **CONDITION**

- Improper gas pressure
  
- Improper air adjustment
  
- Partial blockage of main burner
- Partial blockage of main burner orifice
- Flame spreader misaligned
  
- Blockage in “U” tube
- Poor gas supply
- Exhaust grille blocked
- Improper main burner alignment

### **SOLUTION**

- Set inlet pressure to a minimum of 11½ W.C. with two or more appliances running
- Adjust main burner air shutter approximately 1/4 open
- Remove blockage
- Clean or replace orifice
  
- Re-align spreader or replace main burner
- Remove blockage
- Replace gas supply
- Remove blockage
- Re-align main burner, main burner orifice holder and gas valve

## **SMOKING AND SOOTING**

### **CONDITION**

- Gas pressure incorrect
  
- Poor gas supply
- Improper pilot flame
- Improper air adjustment
  
- Flame spreader misaligned
- Blocked main burner

### **SOLUTION**

- Set pressure to a minimum of 11½ W.C. with two or more appliances running
- Replace gas supply
- Clean or replace pilot orifice
- Adjust main burner air shutter approximately 1/4 open
- Re-align or replace main burner
- Remove blockage

- Improper main burner alignment
- Blocked “U” tube
- Re-align main burner, main burner orifice holder and gas valve
- Remove blockage

## **INSUFFICIENT WATER TEMPERATURE**

### **CONDITION**

- Temperature selector out of place
- Bypass levers improperly positioned
- Improper air adjustment
- Partial main burner blockage
- Improper main burner adjustment
- Flame spreader misaligned
- Blocked “U” tube

### **SOLUTION**

- Re-set to desired position
- Reposition levers
- Adjust main burner air shutter approximately 1/4 way open
- Remove blockage
- Re-align main burner and main burner orifice holder
- Re-align or replace main burner
- Remove blockage

\* not covered under warranty