

Defective heat exchanger -

## FURNACE -Electronic Ignition Model TROUBLE SHOOTING GUIDE

Effective: 8/10/98

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 option 5 before proceeding.

CAUSE BURNER FAILS TO IGNITE AND - B	SOLUTION
	Reconnect or replace power source.*
Thermostat defective	
Thermostat wires broken or shorted	·
	Reset circuit breaker. Check amp draw from motor
	According to furnace's specifications.
Blower relay defective	
Wire off motor	
Wire off relay	
Improper ground	
Blower motor defective	
	•
LOWER RUNS - BUT FAILS TO IG	
Low Voltage/High Voltage	
Gas pressure incorrect	Set pressure to a minimum of 11" W.C. with all appliances running.
	(Replace regulator if not obtainable).*
	Clean and secure grounds established*
Air intake restricted	
12 volt polarity reversed	
	Check voltage first. If 12 VDC while running, replace motor.
Exhaust blocked	
Combustion air wheel loose	
Sail switch defective or wire off	
Limit switch defective or wire off	
Edge connector on circuit board dirty	
Circuit Board defective	Clean plug contacts. If still defective, replace. (check on board tester
	when possible).
Gas valve defective	Replace valve or valve coil, depending on problem encountered.
	Clean main burner orifice or replace.
High tension lead wire defective	
	Adjust electrode (take care not to damage porcelain).
Electrode defective	
Obstructed burner head	Clean burner head*
URNER IGNITES BUT IGNITION S'	YSTEM "LOCKS OUT" AND TURNS BURNER OFF
Low gas pressure	Set pressure to a minimum of 11" W.C. with all appliances running.
	Replace regulator if not obtainable.*
Exhaust blocked	
Combustion air wheel loose	
	Adjust electrode according to furnace specifications.
Electrode defective	
	Clean plug contacts. If still defective, replace. (Check on board tester
=	when possible).
Flame sensor wire between electrode	·
and circuit board defective	• • • • • • • • • • • • • • • • • • • •
Air leakage at gaskets	Replace gasket
	_ '

------Replace heat exchanger
\*indicates NOT covered under warranty.

continued backside

## FURNACE - ELECTRONIC IGNITION Model (continued) Effective: 8/10/98

CAUSE	SOLUTION	
SOOTING (caused by lazy yellow flame)		
• .	*Set pressure to a minimum of 11″W.C. with all appliances running. Replace regulator if not obtainable.	
Low voltage		
Air leakage at gaskets		
Combustion wheel installed backwards or loose	,	
Blockage in heating chamber or burner head		
Faulty motor		
Wrong vent kit or draft cap	· ·	
FAN RUNS CONTINUOUSLY WITH THERMOSTAT		
Defective thermostat		
Shorted thermostat leads		
Defective relay	· · · · · · · · · · · · · · · · · · ·	
LIMITING = BURNER CYCLING ON AND OFF - BLOWER RUNS CONSTANTLY WITH THERMOSTAT O		
Restricted or insufficient discharge ducting	a. Ducting must meet furnace's minimum requirements.*	
	b. No excess ducting or unnecessary bends.*	
Francis and Cond	c. All closeable registers must be fully open and unrestricted.*	
Furnace over tired	Set gas pressure to a minimum of 11" W.C. with all appliances	
	running replace regulator, if not obtainable. Also, check main	
Pactricted return air cumply	burner orifice, it must comply with furnace's specifications.*Make sure return air meets furnace minimum requirements.*	
Defective limit switch		
BLOWER SHUTS OFF AT SAME TIME BURNER	•	
Wired wrong		
Faulty relay		
BLOWER VIBRATES OR IS NOISY	періасе тетау.	
Motor mount loose	Tighton motor mounting brookst	
Motor mount loose	a. Ducting must meet furnace's minimum requirements*	
	b. No excess ducting or unnecessary bends.*	
	c. All closeable registers must be fully open and unrestricted.	
Damaged blower wheel		
Motor shaft bent	Replace motor	
INSUFFICIENT HEAT	Tiopiado motor	
	1. Set gas pressure to 11″ W.C. with all appliances running,	
rumace under med	replace regulator if not obtainable. Also, check main burner orifice, it must comply with furnace's specifications.	
	<ol><li>Check ducting and return air according to furnaces specifications.*</li></ol>	
Furnace improperly sized for coach/or conditionsReplace furnace with proper size.		

## This manual has been provided courtesy of My RV Works, Inc.

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www.myrvworks.com/manuals

Over the years of running a mobile RV repair service, having a dedicated place to access service manuals for all the different appliances and components found on RVs was something that I always had a desire to create.

I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own RV.

If in doubt, please consult with a professional RV technician!

DARREN KOEPP - OWNER, MY RV WORKS, INC.

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