

# **PITCO GAS FRIALATORS**

**WITH ELECTRONIC IGNITION**

# **PARTS AND SERVICE CATALOG**



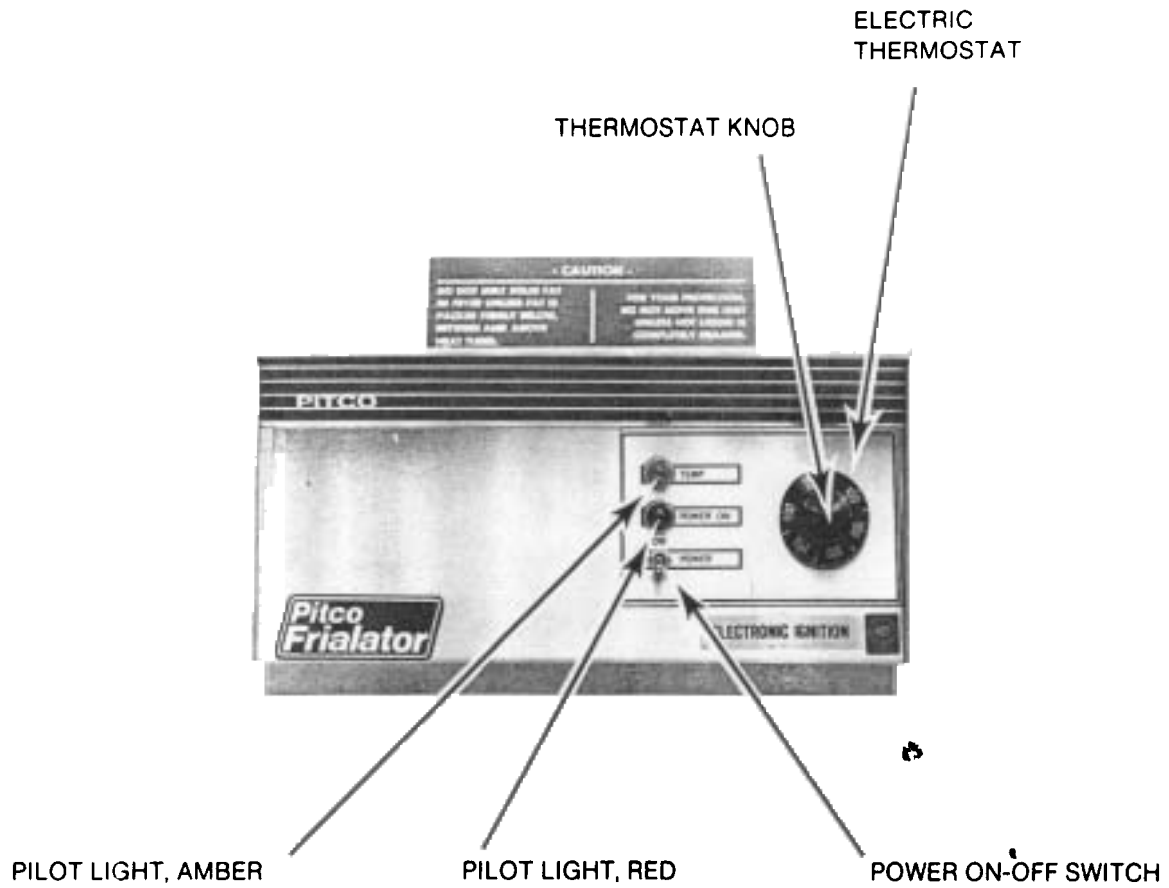
MODEL 14

**Pitco Frialator, Inc.**  
**P.O. Box 501, Concord, N.H. 03301**  
**Tel. 603-225-5688**

**Please retain this manual for future reference.**

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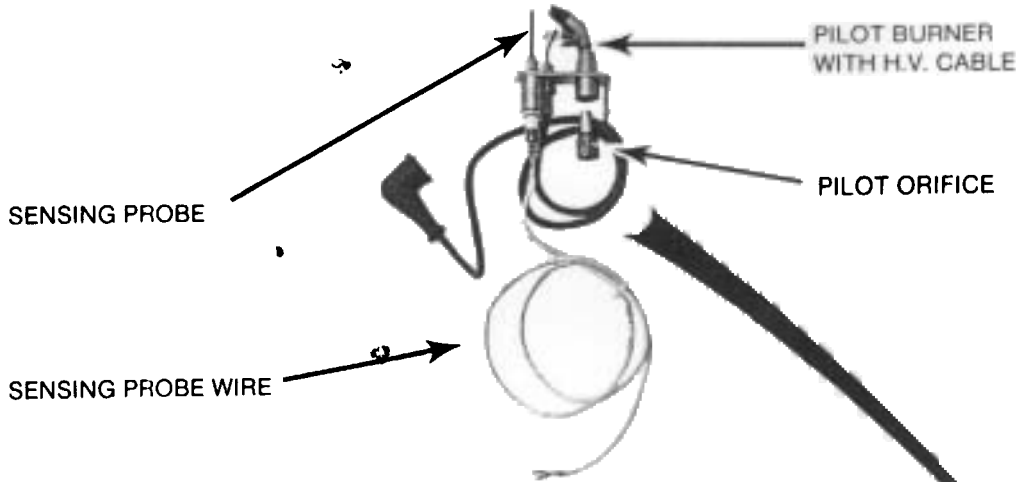
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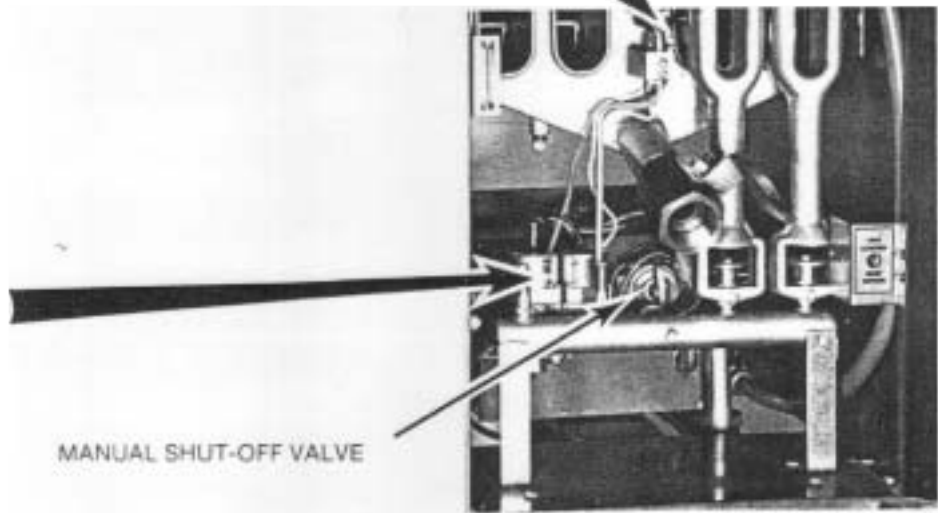
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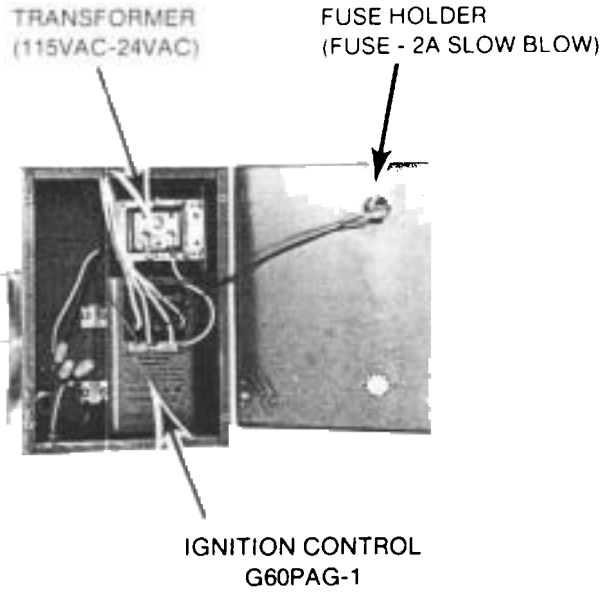


BASITROL® VALVE

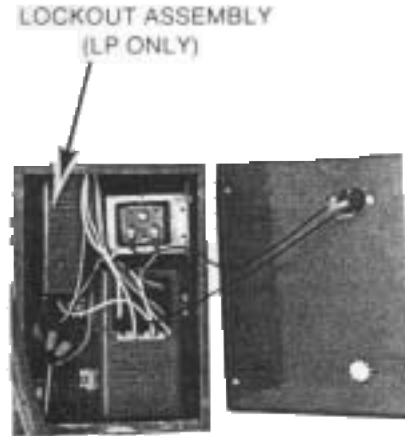


PART	PART NUMBER
PILOT BURNER WITH HV CABLE	P5046410
PILOT ORIFICE- NAT GAS	P6071331
LP GAS	P6071332
SENSING PROBE	P5046626
SENSING PROBE WIRE	P5045113
BASITROL® VALVE WITH REGULATOR (NAT. GAS)	P6071776
BASITROL® VALVE WITH-OUT REGULATOR (LP GAS)	P6071777
REGULATOR (LP ONLY, NOT SHOWN)	P5046655
MANUAL SHUT-OFF VALVE	P6071767

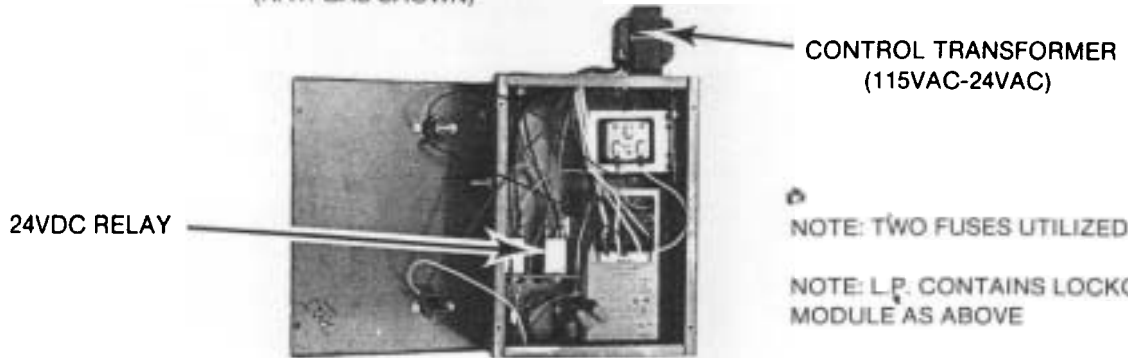
STANDARD NATURAL GAS  
IGNITION CONTROL BOX:



STANDARD LP GAS  
IGNITION CONTROL BOX:



PITCOMATIC COMPUTERIZED  
IGNITION CONTROL BOX:  
(NAT. GAS SHOWN)



PART	PART NUMBER
IGNITION CONTROL G60PAG-1	P5045380
LOCK-OUT ASSEMBLY (LP ONLY)	P6071315
FUSE HOLDER	P5045790
FUSE (2 AMP SLOW BLOW)	P5045700
TRANSFORMER (115VAC-24VAC)	P5047509
CONTROL TRANSFORMER COM- PUTER (115VAC-24VAC)	P5047511
24VDC RELAY	P5046890

## OPERATING INSTRUCTIONS

### PITCO GAS FRIALATORS EQUIPPED WITH ELECTRIC IGNITION

#### Lighting Main Burners

1. Always make sure the heat tubes are covered with liquid before lighting main burners.
2. Turn on fryer gas valve in fryer supply pipe.
3. Turn thermostat knob to desired temperature setting.
4. Turn fryer POWER switch up to ON position. Burners will now light. Amber TEMP light will turn on and remain lit whenever the burners are on. (Amber TEMP light will cycle on and off with the main burners.)

#### B. Adjusting Main Burners

1. The operating gas pressure for the burner manifold must be 4.0 inches water column (w.c.) for natural gas or 10.0" w.c. for propane. This should be checked by your local gas company. This reading must be taken with a meter at the manifold test plug with all other gas appliances on.\*
2. The flame adjustment is accomplished by the usage of the burner air collar located at the lower portion of the burner. Adjust the air collar so that the main burners burn with a soft blue flame with no lifting and no yellow tips.
3. Burner flames must enter the inside of the heat tubes without touching the rim of the heat tube.
4. When proper adjustment of the burner is completed, tighten the air collar locknut against the bottom of the air collar.

\*The operating gas pressure regulator adjustment for natural gas is located on the main gas valve (Basitrol valve). The adjustment of gas pressure for propane gas is located on an independent gas pressure regulator.

#### Shutting Down

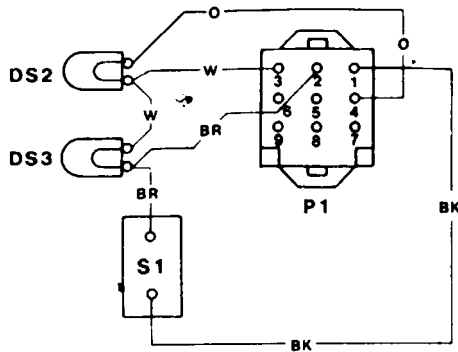
1. For complete shutdown, turn off fryer gas valve and turn POWER switch down to OFF position.
2. For standby shutdown, turn POWER switch down to OFF position.

TROUBLE SHOOTING CHART

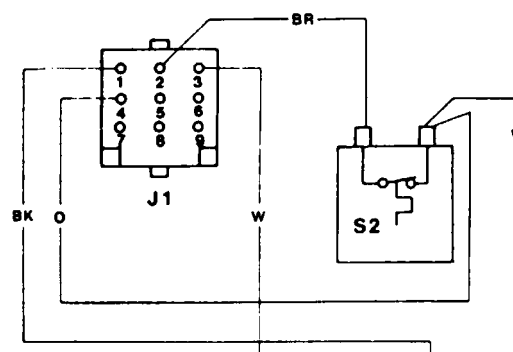
TROUBLE	POSSIBLE CAUSE	REMEDY
On models equipped with electronic proven pilot ignition the pilot will not ignite.	1. Fryer not connected to electronic supply.	1. Plug fryer supply cord into <u>proper</u> electric supply.
	2. No spark present.	2. Turn OFF electric power and check all wiring connections to see that they are secure.
	3. Improper spark gap.	3. Gap between spark electrode and sensing probe must be 7/64".
	4. No gas to pilot.	4. Turn on main gas valve.
	5. Pilot orifice plugged, pilot burner plugged, or incorrect orifice size.	5. Remove and clean or check size of orifice.
	6. Gas pressure too low.	6. Gas supply inlet pressure should be a minimum of: 5.0" w.c. for natural gas 11.0" w.c. for propane.
	7. Defective G60 control.	7. Replace with new G60 control.
	8. <u>Limit</u> open.	8. <u>Reset</u> . If unable to reset, replace.



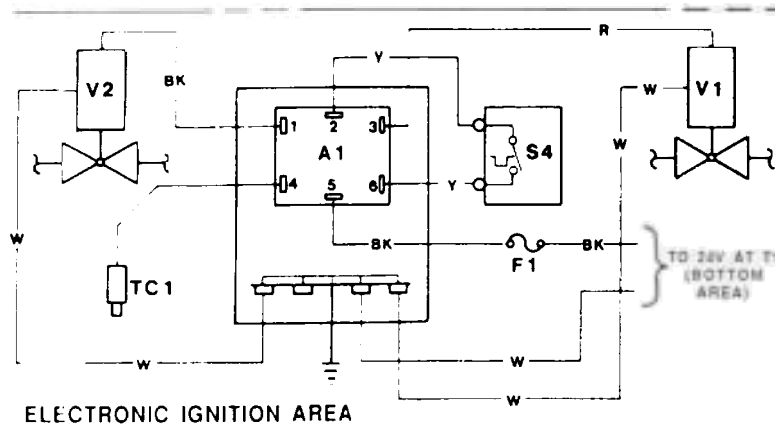
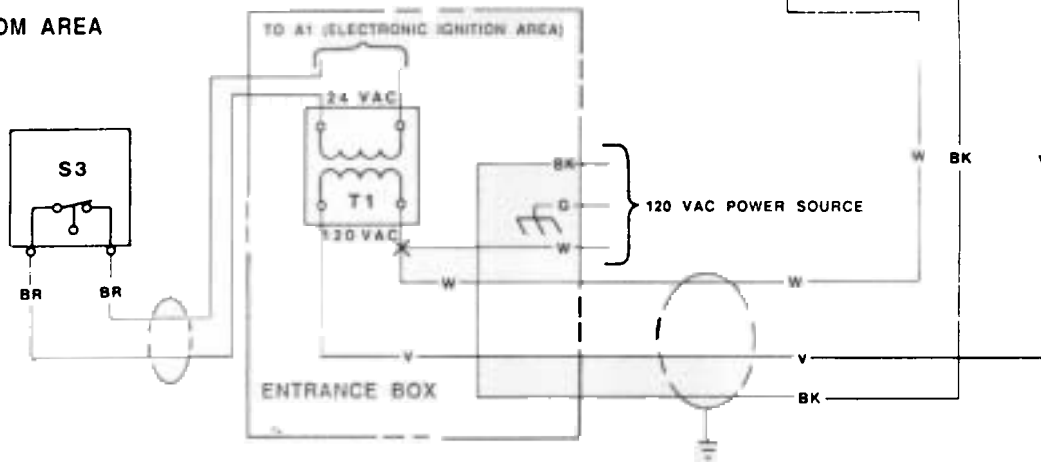
**CONTROL PANEL AREA**



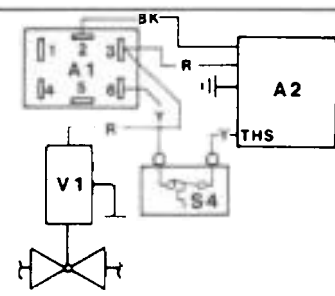
**TIMER BOX AREA**



**BOTTOM AREA**



**ELECTRONIC IGNITION AREA**



**LOCKOUT MODULE WIRING FOR PROPANE GAS ONLY**

- A1 - IGNITION CONTROL MODULE (G60)
- A2 - PROPANE LOCKOUT MODULE (Y79)
- DS1 - OMITTED
- DS2 - 'TEMPERATURE ON' LIGHT
- DS3 - 'POWER ON' LIGHT
- F1 - 2 AMP SLOW BLOW FUSE
- J1 - JACK TO P1
- P1 - PLUG TO J1

- S1 - 'POWER ON OFF' SWITCH
- S2 - THERMOSTAT
- S3 - FLOAT SWITCH
- S4 - LIMIT CONTROL
- TC1 - TEMPERATURE SENSING PROBE
- T1 - TRANSFORMER FOR ELECTRONIC IGNITION
- V1 - MAIN VALVE
- V2 - PILOT VALVE