

CE Service Manual



Pitco Frialator

ADVANCED GAS FRYER with FILTER
PITCO MODEL AG14S-C
MANUFACTURED
BY



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for the
CE Market Only



FOR YOUR SAFETY:

Do not store gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

TO THE PURCHASER

POST IN A PROMINENT LOCATION INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THAT AN OPERATOR SMELLS GAS. OBTAIN THIS INFORMATION FROM YOUR LOCAL GAS SUPPLIER.

WARNING:

IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE MANUALS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

WARNING

This appliance is equipped with a grounding plug. This is for your protection against shock hazard in the event of equipment malfunction. Always plug the unit into a properly grounded receptacle. DO NOT cut or remove the grounding prong.

WARNING

DO NOT use an open flame to check for gas leaks! Keep all open flames away from the machine at all times.

WARNING

Machines equipped with casters and a flexible power cord, must be connected to a gas supply with a Quick-Disconnect device. This quick disconnect must comply with all local and national codes. To limit the movement of the unit without depending on the connector or quick disconnect, a restraining device must also be installed.

WARNING

DO NOT supply the fryer with a gas that is not identified on the data plate, located on the inside of one of the doors of the machine. If you need to convert the machine to another type of fuel, contact your dealer or Authorized Service Agency.

WARNING

There is an open flame inside the machine. The unit may get hot enough to set nearby materials on fire. Keep the area around the unit free from combustibles.

WARNING

Ensure that the machine can get enough air to keep the flame burning correctly. If the flame is starved of air it can give off a dangerous carbon monoxide gas. Carbon Monoxide is a clear odorless gas that can cause suffocation.

WARNING

Carbon Monoxide gas can build up if you obstruct the flue. Blocking the flue will also cause the unit to overheat. DO NOT obstruct the flow of combustion/ventilation or air opening around the machine. Ensure that you meet the minimum clearances specified in the installation instructions. Adequate clearance around the unit is necessary for servicing and proper burner operation.

WARNING

If the machine should shut down unexpectedly wait 5 minutes before attempting to restart it. This will allow for any excess gas in the unit to dissipate.

WARNING

The power supply must be disconnected before servicing or cleaning the unit.

WARNING

To prevent tipping of the machine and splashing of HOT oil your Pitco Frialator fryer is equipped with a Gas Hose Quick Disconnect and restraining device. This attaches the rear of the machine to the wall. When the fryer is in its operating location, lock the casters and reattach the restraining device to the rear of the machine.

WARNING

Shortening, when it is at cooking temperatures, is very HOT and DANGEROUS! Use extreme caution when handling! Use the proper protective gear such as insulated gloves, aprons, face shield and sleeves when handling hot shortening. DO NOT attempt to move any machine that has hot oil in it. Allow the oil to cool to room temperature or drain the oil into a suitable container before moving the fryer.

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Chapter 1: HOW DOES IT WORK?

The McDonald's Gas fryer will have certain reactions to what is happening, knowing what these reactions are and knowing what the machine is trying to do will enable us to diagnose most of the problems likely to be encountered.

Heating System - Full Tank:

- Power to the machine is turned ON:
- The computer is supplied with 24 VAC and, if the Drain Valve Handle is closed, the Proximity Switch will supply 24 VAC to the DVI (Drain Valve Interlock) Input at the computer. The Ignition Control Modules are also supplied with 24 VAC at the 24V terminal.
- The computer is turned ON -
- Computer calls for heat and supplies 24 VDC to the Heat Demand Relay which will energize supplying the Blower, the Pilot Solenoid on the Gas Valve and the Pressure Switch with Power.
- The Pressure Switch will energize the Check Blower Relay which will stay energized.
- When the Blower reaches its normal speed it will cause the pressure switch to close supplying 24 VAC to the second set of switch points on the Check Blower Relay. Because the Check Blower Relay is still energized the power will be supplied to the TH terminal of each Ignition Control Module.
- Both Ignition Control Modules supply power to the Spark Ignitors. At the same time one of the Ignition Control Modules supplies power to the Main Valve Relay coil. The other Ignition Control Module supplies power to the switch points of the Main Valve Relay.
- The Main Valve Relay energizes allowing the second Ignition Control Module to supply power to the Main Solenoid of the Gas Valve.
- At this point the main burners will ignite. This will also supply the computer with a heat feedback signal. (It is the lack of this Feedback signal that causes the Computer to display "Ignition Failure".)
- Each Ignition Control Module will spark for 10

seconds and then check for a flame sense signal from the Flame Rod. If the Ignition Control Module does not see a flame sense signal it will "Lock Out".

Heating System - Split Tank:

- Power to the machine is turned ON:
- The computer is supplied with 24 VAC and, if the Drain Valve Handle is closed, the Proximity Switch will supply 24 VAC to the DVI (Drain Valve Interlock) Input at the computer. The Ignition Control Modules are also supplied with 24 VAC at the 24 V terminal.
- Computer calls for heat and supplies 24 VDC to the Heat Demand Relay which will energize supplying the Blower Relay and the Pressure Switch with power. When the Blower Relay energizes the Blower will be supplied with power and will increase in speed until the pressure switch closes.
- Before the pressure Switch closes it will supply power to the Check Blower Relay which will remain energized.
- When the Pressure Switch comes up to speed it will supply power to the second set of switch points on the Check Blower Relay. Because the Check Blower Relay is energized the Blower OK Relay coil will be supplied with power causing it to energize. When the Blower OK Relay energizes, one set of its Switch points supplies voltage to the Left Hand Ignition Control Module at the TH terminal and the other set of switch points supplies the right hand Ignition Control Module with power at the TH terminal. The same power that is supplied to the TH terminals of the Ignition Control Modules is also supplied to the Hi Limit switches which, if closed, will supply power to the Pilot Solenoid of the Gas Valve.
- When an Ignition Control Module is supplied with power at the TH terminal it will supply power to the Ignitor, the Main Solenoid of the Gas Valve and the Heat Feedback Input of the Computer. (It is the lack of this Feedback signal that causes the Computer to display "Ignition Failure".)
- The Ignition Control Module will continue to spark for 10 seconds and then look for a flame sense signal from the Flame Rod. If the Ignition

Control Module does not see a flame sense signal it will "Lock Out".

Hi - Limit System:

When the Hi Limit trips it causes the power to the Pilot Solenoid to stop and gas will cease to flow through the gas valve. This will cause a Lock Out condition. The Hi Limit is an automatic reset type switch. In order to make the computer recognize that the Hi Limit has reset it must be turned OFF. The reset switch must be pressed and released in order to reset the Ignition Control Modules and the computer turned back ON again for further use of the fryer.

Filter System:

Opening the RED Return Valve Handle will cause the Pump On Relay to be energized and the pump will begin to pump. Closing the Return Valve Handle will de - energize the Relay and the Pump will stop pumping.

Chapter 2: COMPONENT TROUBLESHOOTING:

Probe:

The resistance of the probe will change as the temperature changes. The resistance will decrease as the temperature rises. The lower the temperature the greater the resistance change will be per degree of temperature change, as the temperature approaches the working range of the probe, the resistance change will become more linear.

If the probe is suspect, check its resistance and the oil/air temperature at which it was taken. Compare these values on the chart below.

TEMP °F	RESISTANCE Ohms Ω	TEMP °F	RESISTANCE Ohms Ω
60	139055 Ω	330	1192 Ω
80	84644 Ω	335	1123 Ω
100	53146 Ω	340	1058 Ω
120	34328 Ω	345	998 Ω
140	22755 Ω	350	942 Ω
160	15446 Ω	355	890 Ω
180	10716 Ω	360	841 Ω
200	7586 Ω	365	795 Ω
210	6427 Ω	370	752 Ω
220	5470 Ω	375	712 Ω
240	4013 Ω	380	675 Ω
260	2991 Ω	385	640 Ω
280	2262 Ω	390	607 Ω
300	1734 Ω	395	576 Ω
320	1347 Ω	400	547 Ω
325	1267 Ω		

If the probe returns an open circuit or 0 Ohms reading it should be replaced. If the resistance varies more than 20 Ohms from the above chart when being checked between 325-375°F (162°C - 190°C) the probe will give a false temperature reading on the computer and should be replaced. However, it will continue to operate at a slightly higher or lower temperature. Allow the oil to cool and check the probe resistance at a lower temperature. As can be seen from the chart a greater degree of offset can be allowed at a lower temperature.

Relays:

The Heat Demand relays are 24VDC relays and will energize when the correct voltage is supplied to the coil. When energizing, the relay Switching Contacts will close, thus connecting the Common and Normally Open terminals. The Hi - Limit relay is a 24VAC relay and may be checked in the same manner as the above relay.

Hi Limits:

A Hi - Limit switch is a normally closed switch until the temperature at the probe reaches 435°F ± 15° (225°C ± 15°). In order to test this switch it will be necessary to bypass the Heat Demand Relay. Follow the Hi Limit testing procedure outlined in the Operating Manual.

WARNING

Do NOT leave the machine during this test. This test will cause the oil to heat past the normal operating temperature and can cause damage to the machine and its operator.

If the switch does not trip between the prescribed limits it is defective and should be replaced. Once tripped, the switch will not reset until the oil has cooled to approximately 400°F (204°C). If the switch does not reset it is defective.

Drain Valve & Return Valve Switches:

This switch is a magnetically operated Reed switch. When the Drain Valve handle is moved to the open position, the Actuator will move away from the switch causing the Reed switch to open. When the Drain Valve is closed the Reed switch will close. This switch can also be checked with an Ohm meter. The normal gap between the Actuator and the Sensor switch on the Drain Valve handle is $\frac{1}{8}$ " - $\frac{1}{4}$ " (3 - 6 mm).

Transformer:

Transformers are multiple input voltage, 24 volt output voltage and can be checked by reading the input and output voltages.

Blower:

Check the voltage between the wires going to the Blower. If voltage is found and the Blower is NOT turning it is defective.

Pressure Switch:

As the blower speed rises the amount of vacuum on the suction side of the pressure switch rises past approximately 1.3" WC (0.325 kPa) the Pressure Switch will close. When the vacuum falls below approximately 0.8" WC (0.2 kPa) the Pressure Switch will open. With the Blower running, check the IN and OUT voltage of the Switch. If 24VAC can be found on one side but NOT the other the Pressure Switch is defective.

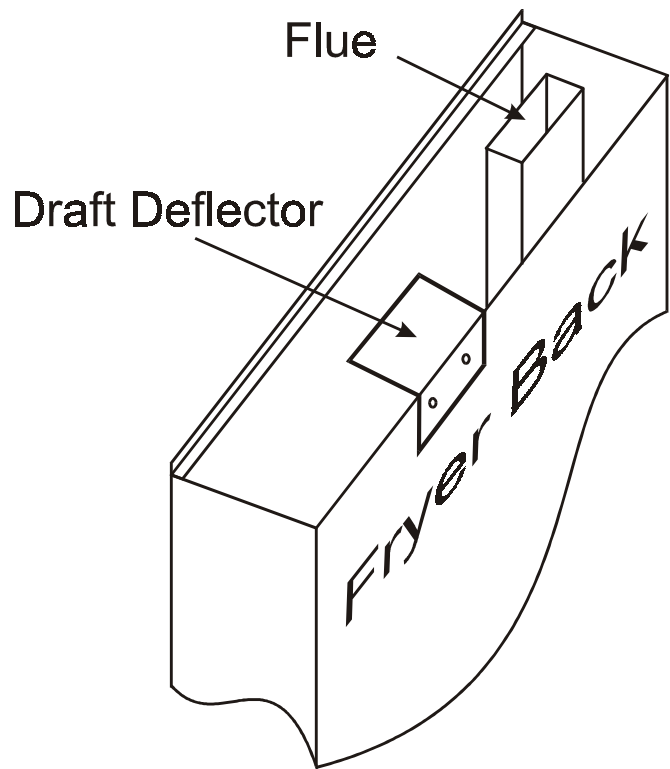
Gas Valve:

The Knob should be in the ON position. Check for 24VAC between the terminals marked MV and MV/PV and between PV and MV/PV. If voltage IS found between both of these connections and the Gas Valve does not open the Gas Valve is defective. If voltage is NOT present at both of the coils on the Gas Valve, troubleshoot and repair the machine until voltage IS present at both coils, retest the Gas Valve as previously described.

A note on Excessive Air Velocities within Hood systems:

Extended recovery times and flame outage problems may occur if Hood Air Velocities are excessively high.

The baffle should be installed in the position shown in the picture, using two self drilling screws.



Chapter 3: TROUBLESHOOTING GUIDE

Fryers:

It is assumed that, before starting any troubleshooting, the power is turned on and the gas lines are connected correctly.

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Computer does not come on nothing shows in either display	A. Main circuit breaker is turned off B. Fryer fuse is blown C. Transformer	A. Locate the correct circuit breaker and turn OFF and back ON again. B. Check and Replace as needed C. Check Transformer
Computer heat light comes on but burners do not heat	A. If the oil is hot the Hi Limit may be tripped	A. Allow the oil to cool, the Hi Limit will reset when the temperature falls. Turn the computer OFF and back ON again. Press the reset switch.
Heat Light ON, burners not lit.	A. Heat Demand Relay B. F2 Fuse may be blown C. Blower D. Pressure Switch E. Gas Valve F. Ignition Module (One or both) G. Gas Valve Relay (Full Tank Only) H. Tripped or defective Hi Limit	A. Check Heat Demand Relay. B. Check and replace as needed. C. Check and replace as needed. D. Check and replace as needed. E. Check and replace as needed. F. Check and replace as needed. G. Check and replace as needed. H. Allow the oil to cool, the Hi Limit will reset when the temperature falls. Turn the computer OFF and back ON again to reset the computer. Press the reset switch. Check and replace is needed.
No Spark heard, blower IS running	A. Heat Demand Relay B. Ignition Control Module C. Spark Ignitor	A. Check and replace where needed. B. Check and replace where needed. C. Check and replace where needed.
Spark sound can be heard, Blower NOT running	A. F2 fuse blown B. Blower C. Heat Demand Relay	A. Check and replace where needed. B. Check and replace where needed. C. Check and replace where needed.
Spark sound can be heard, Blower IS running but main burners do not run	A. Ignition Control Module B. Gas Valve Relay (Full Tank Only) C. Bad Pressure Switch D. Tripped or defective Hi limit E. Gas Valve	A. Check and replace where needed. B. Check and replace where needed. C. Check and replace where needed. D. Check and replace where needed. E. Check and replace where needed.
Burner comes ON for short time, does not come back on	A. Flame Sensor B. Ignition Control Module C. Gas Valve	A. Check and replace where needed. B. Check and replace where needed. C. Check and replace where needed.

Filters:

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Red Return Valve is open but no pump sound can be heard	A. Red Return Valve NOT fully open B. Filter Circuit Breaker may be tripped C. Filter Motor Thermal Overload may be tripped D. Sensor switch may be loose or bad	A. Pull slightly on the Red handle to check that it is fully open. B. Locate the circuit breaker and reset. C. Push Red reset button located on end of filter motor. D. Check that the switch is tight in its mounting. If switch is bad replace it.
Drain valve is closed and the computer has been reset but still shows "DRAINING" or "TURN OFF"	A. Green Drain Valve is NOT fully Closed B. Sensor switch may be loose or bad	A. Apply a little more pressure to the Green Handle to check that it is fully closed. B. Check that the switch is tight in its mounting. If switch is bad replace it.
Drain Valve is OPEN, the oil is draining slowly or not at all.	A. Green Drain Valve is NOT fully open B. Drain is plugged with debris	A. Apply a little more pressure to the Green Handle to check that it is fully closed. B. Use the Clean Out Rod from inside the Fry Tank to clear the Drain Valve. If this NOT clear the blockage, CLOSE the Green Drain Valve and follow these instructions for clearing the main drain line. CAUTION: Some HOT oil may still come out when the cap is removed. Remove the two screw from the end cap (Do NOT lose these.) Use the Clean Out Rod to clear the main drain tube. Install the end cap along with its gasket and two screws. Do not overtighten these screws.

Chapter 4: COMPONENT CHANGEOUT:

It is assumed that for all (except where noted) of these component changeout instructions the fryer has been shut down and disconnected from the power and gas supplies, cooled and drained of oil.

Probes:

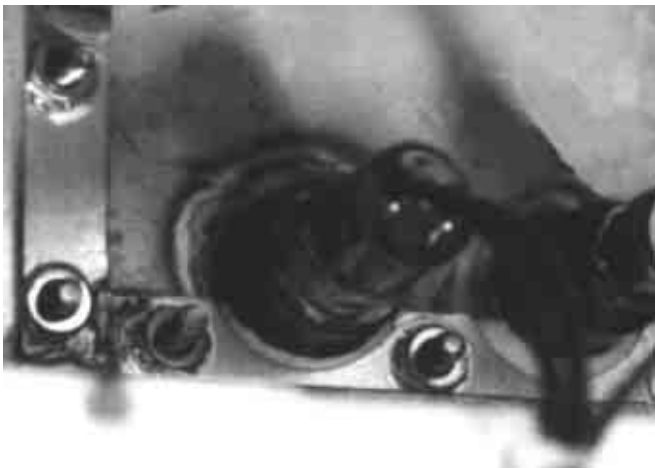
1. Unplug the wiring connector.
2. Unscrew the small nut on the probe seal.
3. Slide the probe from the seal.



Install in the reverse order using the new ferrule supplied with the new probe.

Hi Limits:

1. Unplug the wiring connector.
2. Unscrew the Hi Limit from the front of the fry tank.



Install in the reverse order.

Computers:

CAUTION

Take care not to drop any of the components from the front panel as this will damage them.

1. Remove the two screws from the upper mount of the front panel.
2. Unplug the wiring connector at the rear of the computer.

NOTE: On split tank machines you will find 2 wiring connectors to unplug.



Install in the reverse order.

Components mounted in the front panel:

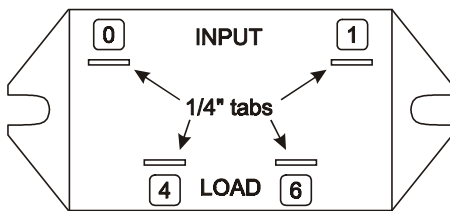
To access all of the components mounted in the front panel follow the instructions below:

1. Remove the computer as described in the above instructions.
The components within the front panel area can now be accessed.

Filter Relays:



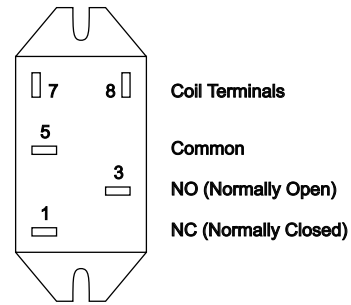
These relays are always wired in the following manner -



Control Relays:

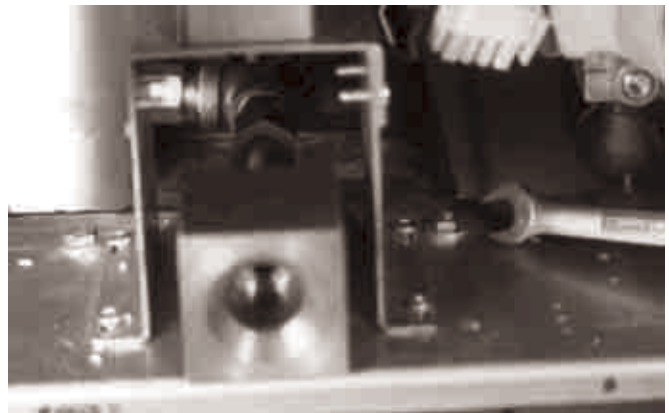


Control relays are always wired in the following manner -



Filter Pumps:

1. From the front of the machine, loosen and remove the fittings at the end of each of the flex lines.
2. Remove the 2 bolts, and the front of the Pump/Motor assembly will drop. The assembly can be removed from the machine by lifting the rear slightly and pushing back. The front of the mount can be lowered until the assembly can be removed from the machine.



Install in the reverse order.

Circuit Breaker:

1. Remove the 2 mounting screws on either side of the door magnet catch. Remove the door magnet catch.
2. Remove the 2 mounting screws from the top and bottom of the cover.
3. Depress the 4 catches that hold the circuit breaker in the cover.

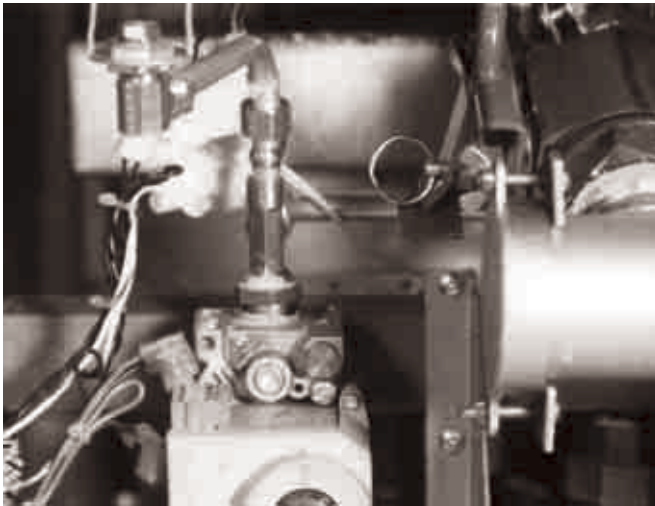




Install of the reverse order.

Gas Valves:

1. Unscrew the fittings to the gas outlet tubes at the top of the gas valve.



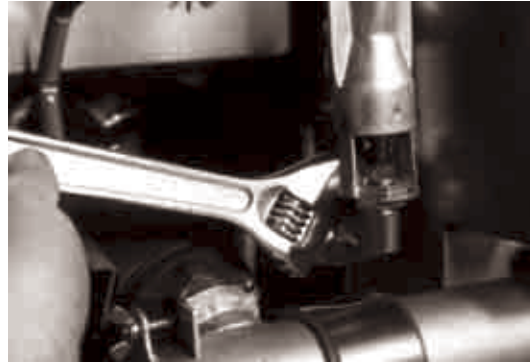
2. Unscrew the pipe union, located behind the gas valve.
3. Unplug the 3 wires that plug into the gas valve.

Install in the reverse order.

Burners and Spark Ignitors:

NOTE: If the ignitor is to be removed without the burner start the procedure at step 2.

1. Unscrew the fitting for the gas supply tubing on the bottom of the burner.



2. Unplug the wire to the spark ignitor.
3. Remove the 2 screws that hold the spark ignitor and burner in place.



The burner and spark ignitor may be removed together. Install in the reverse order.

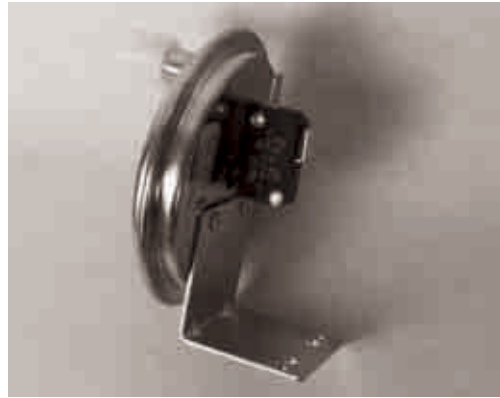
Proximity Switches:

1. The actuator can be removed by removing the 2 mounting screws.
2. The sensor may be removed by disconnecting the wiring harness and by removing the 2 mounting screws.

Install in the reverse order.

Blowers:

1. Unplug the wiring connector.
2. Remove the 3 screws from the mounting flange.



3. Remove the 2 screws from the mounting bracket.

Install in the reverse order.

3. Using a flat screwdriver, break the seal at the motor flange.
4. The motor can now be lowered out of the machine.

NOTE: The new blower will be shipped with the blower housing attached. Remove the motor from the blower housing in the above manner. Clean the sealant from the new motor and the old housing (still attached to the machine). Apply a small amount of high temperature silicone sealant to the motor mounting flange.

Install the motor in the reverse order of removal.

Pressure Switches:

1. Unscrew the plastic fitting from the air connection on the pressure switch.
2. Unplug the 2 wires from the switch.

Fry Tanks:

Full Tanks-

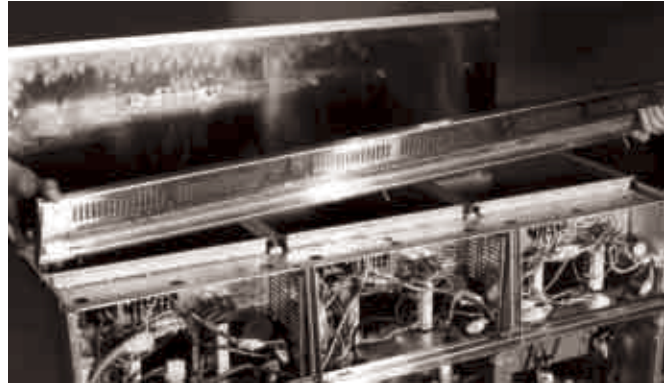
1. Remove ALL of the computer/controllers from the machine.
2. Remove the burners and ignitors from the tank to be removed.
3. Disconnect the drain valve switch wires.
4. Disconnect the return valve switch wires.
5. Disconnect the blower wires.
6. Remove the drain line from the left and right ends of the drain valve tee.
7. Remove the 3 screws from the front of each unit.



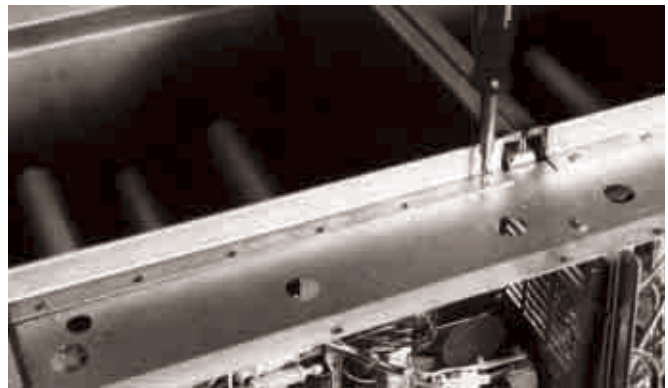
8. Remove all of the nuts and washers holding the splash deck in place.



9. Remove the front deck from the machine.



10. Remove all of the screws holding the front of the tank.



11. Remove the brackets located inside the splash back.



12. Remove the upper rear cover.



13. Remove the complete splash back assembly.



14. Remove the lower rear back cover.

15. Unscrew the compression fitting at the rear of the tank.

16. Remove the air tube from the air box (the blower is mounted to this box).

17. Grasp the tank by the middle tube and remove it from the rear of the cabinet.



Split tanks-

Split tanks should be removed and installed as pairs in the same manner as Full Tanks. There are 3 sets of clamps that hold the two Split Tanks together:

1. On the rear of the tank.
2. On the bottom of the tank accessed by first removing the blower.
3. On the bottom of the tank at the front.

NOTE: To disconnect the filter return piping (as in step # 15) unscrew the union connecting the return piping to the tanks.

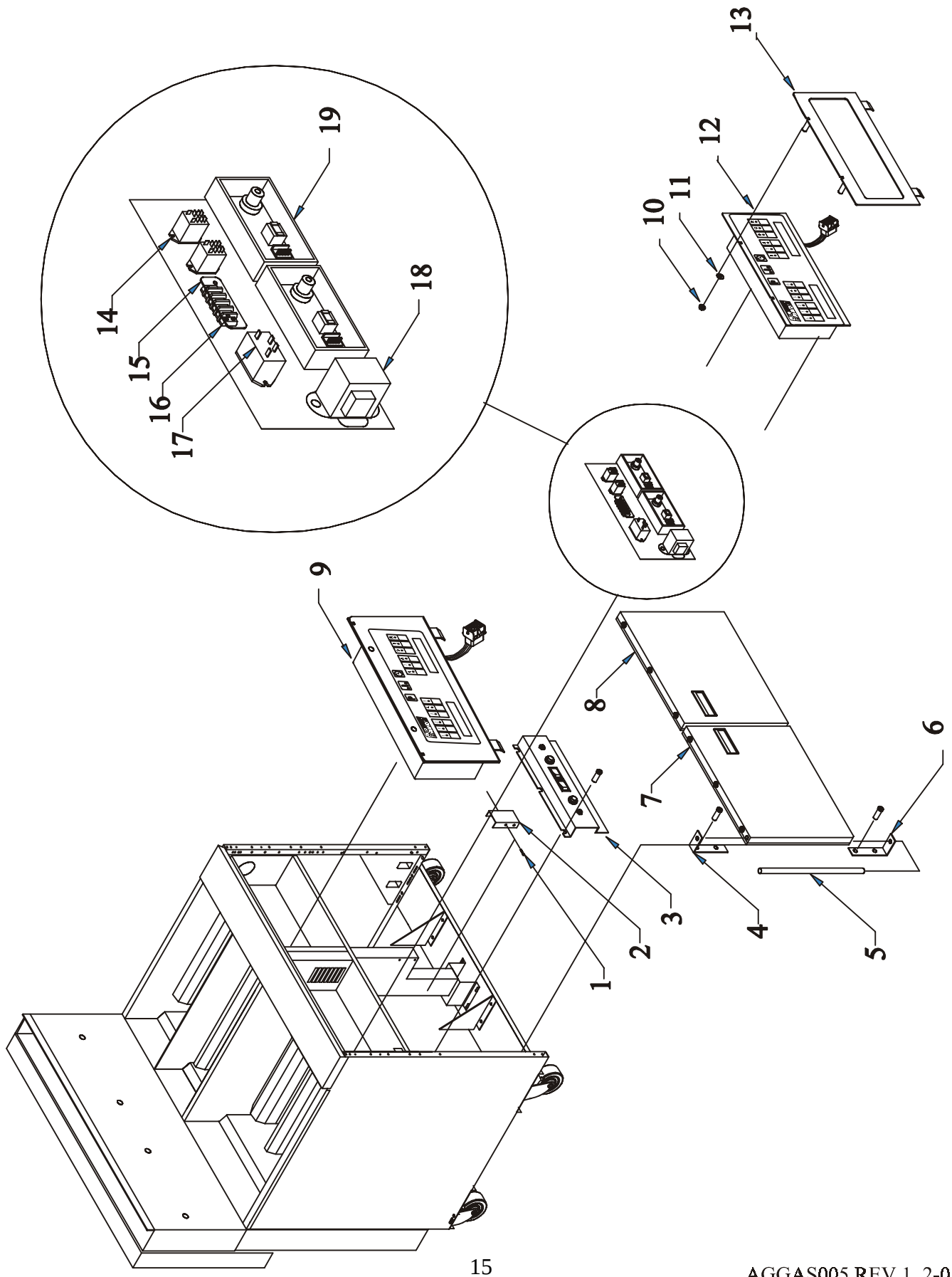
Install in the reverse order.

PARTS SECTION

AG14 FRYER FRONT PARTS LISTS

I.D. #	PART #	PART DESCRIPTION
1	PP10752	10-32 X 1/2" SCREW
2	A1830901	MAGNET STRIKER PLATE
.....	A1835001	MAGNET STRIKER PLATE COVER
3	A1837501	SWITCH MOUNTING PLATE
4	A3802901	TOP RIGHT & LEFT DOOR HINGE
5	B3801301-C	DOOR HINGE PIN
6	A3802903	BOTTOM RIGHT & LEFT DOOR HINGE
7	B2302301-C	LEFT DOOR ASSEMBLY
8	B2302302-C	RIGHT DOOR ASSEMBLY
9	B3626801-C	FRONT PANEL BEZLE ASSEMBLY
10	P0092300	10-24 HEX NUT
11	P0080601	#10 FLAT WASHER
12	PP11370	I-12 3600 COMPUTER SINGLE TANK
.....	PP11372	I-12 3600 DUAL COMPUTER SPLIT TANK
.....	PP11306	3300 DIGITAL CONTROLLER FULL TANK
.....	PP11307	3300 DIGITAL CONTROL LER SPLIT TANK
13	B362601-C	CONTROLLER MOUNTING BEZLE
14	PP11068	HEAT DEMAND RELAY
.....	P5046688	MAIN GAS VALVE RELAY
15	A5059102	TERMINAL STRIP COVER
16	P5045282	WIRE TERMINAL STRIP
17	PP11058	FILTER PUMP RELAY
18	PP10429	TRANSFORMER CE
.....	PP10210	TRANSFORMER DOMESTIC
19	PP11225	SPARK IGNITION MODULE DOMESTIC
.....	PP11145	SPARK IGNITION MODUL E CE

AG14 FRYER FRONT

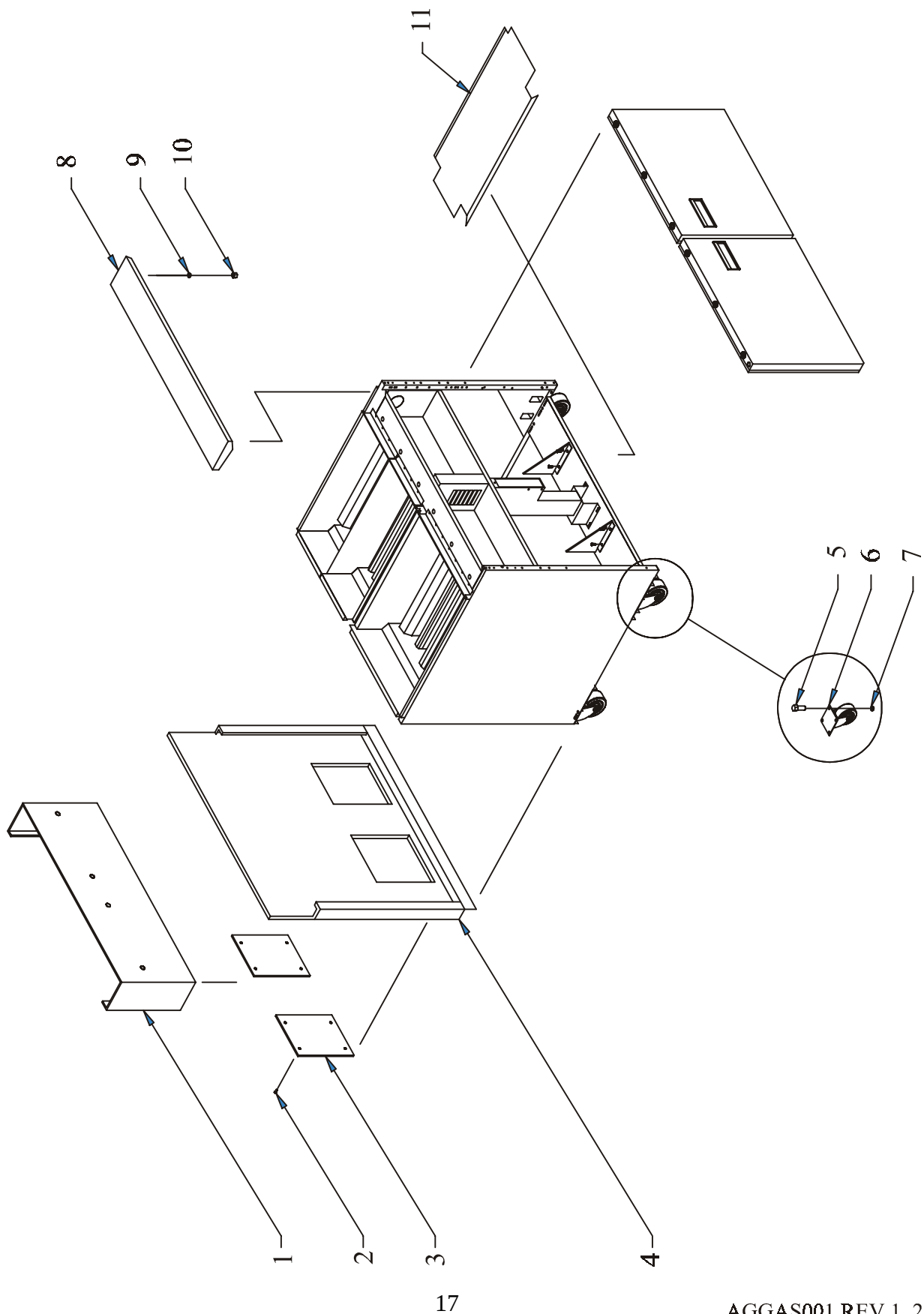


AG14 FRYER CABINET

PARTS LISTS

I.D. #	PART #	PART DESCRIPTION
1	B4101601-C	SINGLE FRYER BACK SPLASH
	B4101001-C	DUAL FRYER BACK SPLASH
	B4101101-C	TRIPLE FRYER BACK SPLASH
	B4101201-C	QUAD FRYER BACK SPLASH
	B4101701-C	QUINT FRYER BACK SPLASH
2	PP10752	10-32 X 1/2" SCREW
3	A1623901	REAR CABINET ACCESS PLATE (STEEL)
	A1623902	REAR CABINET ACCESS P LATE (SS)
4	A1623501+A1623502	SINGLE FRYER CABINET BACK
(1 st #galvanized, 2 nd # stainless)	A1623601+A1623502	DUAL FRYER CABINET BACK
	A1623701+A1623702	TRIPLE FRYER CABINET BACK
	A1623801+A1623802	TRIPLE FRYER CABINET BACK TOP
	USE DUAL TWICE	QUAD FRYER CABINET BACK
	USE DUAL & TRIPLE	QUINT FRYER CABINET BACK
5	P0020600	1/4" X 5/8" BOLT
6	PP10815	9" LOCKING CASTER
6	PP10814	9" NON-LOCKING CASTER
7	P0093300	1/4" X 20 NUT
8	B3622401-C	SINGLE FRONT PANEL TOP DECK
	B3627001-C	DUAL FRONT PANEL TOP DECK
	B3627201-C	TRIPLE FRONT PANEL TOP DECK
	B3627401-C	QUAD FRONT PANEL TOP DECK
	B3628201-C	QUINT FRONT PANEL TOP DECK
9	P0080650	1/4" FLAT WASHER
10	P0093300	1/4" X 20 NUT
11	A1838101	SINGLE CABINET BOTTOM PLATE
	A1834501	CABINET BOTTOM PLATE LEFT HAND
(Non-filter)	A1839301	DUAL CABINET BOTTOM PLATE
(Non filter)	A1839303	TRIPLE CABINET BOTTOM
(Filter)	A1839401	TRIPLE CABINET BOTTOM RIGHT H.
	A1839501	PUMP BOTTOM COVER

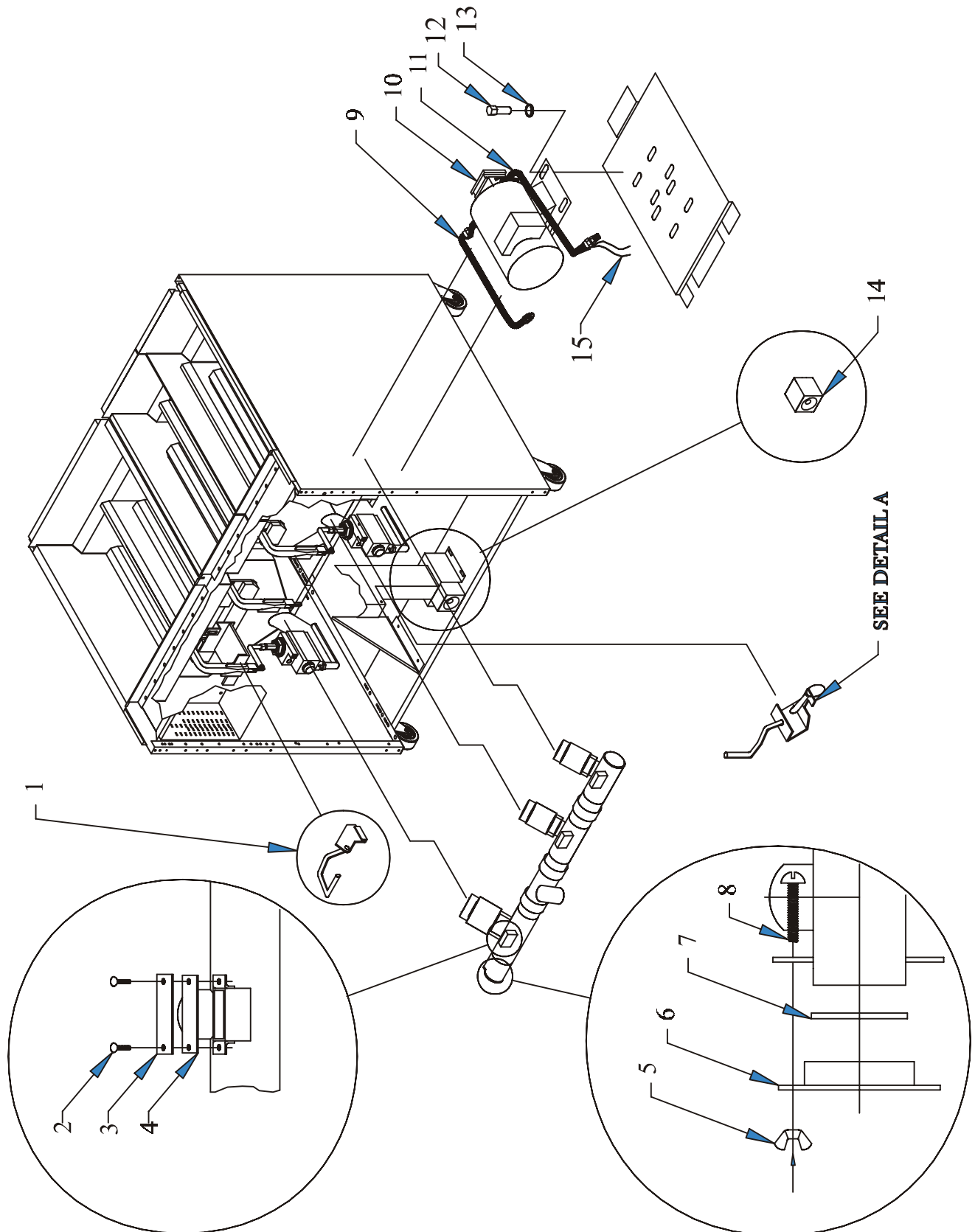
AG/MG FRYER CABINET



AG14 FRYER FILTER PARTS LISTS

I.D. #	PART #	PART DESCRIPTION
1	B4003203-C	OIL RETURN HANDLE FULL & RH SPLIT
	B4003204-C	OIL RETURN HANDLE LH SPLIT
2	P0079500	10-24 X 1/2" SCREW
3	A7004401	DRAIN LINE CLEAN OUT COVER
4	PP11182	CLEAN OUT COVER GASKET
5	PP10568	10-24 WING NUT
6	B6643101-C	FILTER DRAIN LINE END CAP
7	PP11181	DRAIN LINE END CAP GASKET
8	PP10696	10-24 X 1/2" SCREW
9	PP11241	FLEX TUBING WITH FITTINGS 18"
10	B6638601-C	PUMP & MOTOR ASSEMBLY 115VAC
(Including tubing & heat tape) ...	B6638602-C	PUMP & MOTOR ASSEMBLY 240VAC
(Including tubing & heat tape) ...	B6638603-C	PUMP & MOTOR ASSEMBLY 220VAC
(Pump & motor only)	PP10101	PUMP & MOTOR ASSEMBLY 115-230VAC
	PP10416	MOTOR ONLY 115-230VAC
(Pump & motor only)	PP10171	PUMP AND MOTOR ASSEMBLY
	PP10417	PUMP ONLY
11	PP11242	FLEX TUBING WITH FITTINGS 20"
12	P0020600	1/4-20 X 5/8 BOLT
13	P0080650	1/4 FLAT WASHER
14	B6652601-C	FILTER RETURN RECEPTICLE ASSY.
15	PP10039	HEAT TAPE 165 WATT 110VAC 79"
	PP10080	HEAT TAPE 165 WATT 240VAC 79"
	PP10194	HEAT TAPE 96 WATT 110VAC 48"
	PP10598	HEAT TAPE 96 WATT 240VAC 48"

AG14 FRYER FILTER

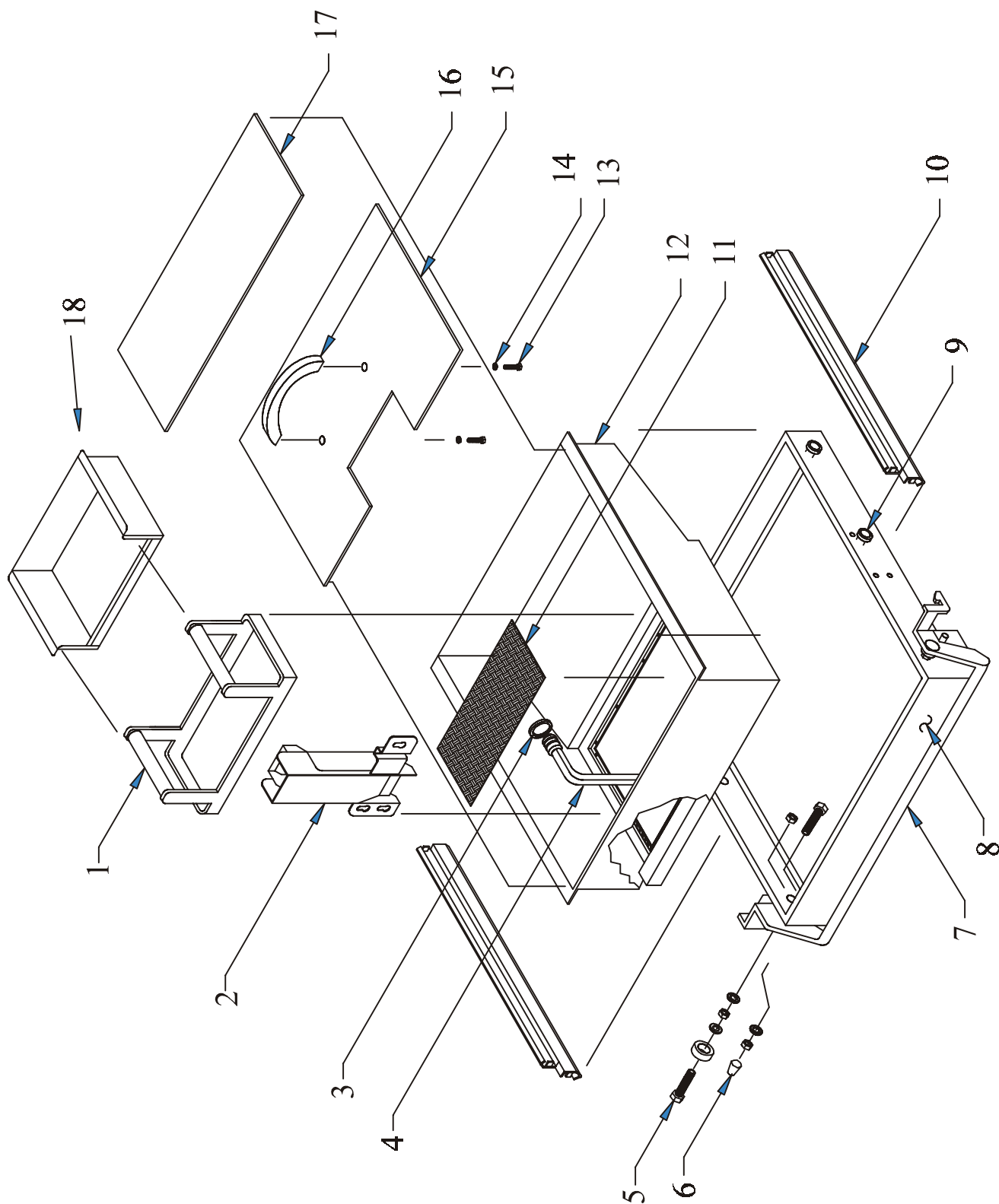


AG14 FRYER FILTER DRAWER

PARTS LISTS

I.D. #	PART #	PART DESCRIPTION
1	B6640901-C	PAPER RETAINING RACK
2	B6647701-C	OIL DRAIN CATCH TOWER
3	PP10409	FILTER COUPLING "O" RING
4		FILTER PICK-UP ASSEMBLY
5	P0020900	1/4-20 HEX HEAD SCREW
	P6071020	1/4" NYLON BUSHING
	P0080650	1/4" FLAT WASHER
	P0093300	1/4-20 NUT
6	PP10177	VINYL PROTECTIVE COVER
	P0093300	1/4-20 NUT
	P0080650	1/4" FLAT WASHER
	P0020900	1/4-20 HEX HEAD SCREW
7	B6640701-C	FILTER DRAWER HANDLE
8	B6640601-C	FILTER DRAWER WELDMENT
9	PP11152	ROLLER WHEEL KIT
10	B6656801-C	FILTER DRAWER EXTENSION RAIL (RH)
	B6656802-C	FILTER DRAWER EXTENSION RAIL (LH)
11	A7008302	PAPER SUPPORT RACK
12	B6661501-C	FILTER PAN
13	P0007300	8-32 X 1/4" SCREW
14	PP10900	FLAT WASHER
15	B6641001-C	FRONT FILTER PAN COVER W/HANDLE
	A7001102	FRONT FILTER PAN COVER NO HANDLE
16	P6071516	FILTER PAN COVER HANDLE
17	A7013502	REAR FILTER PAN COVER
18		CRUMB CATCH BASKET

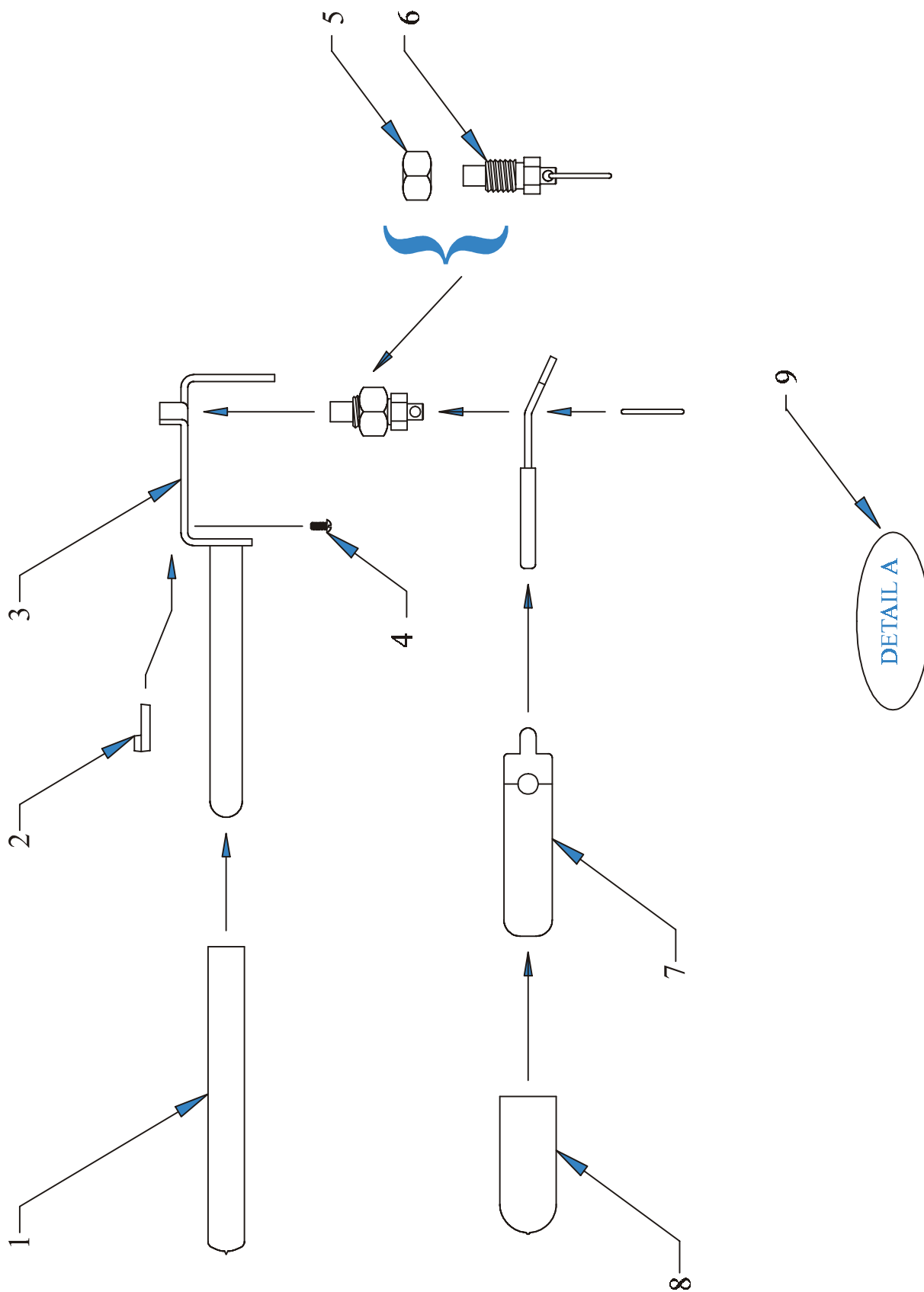
AG FRYER FILTER DRAWER



AG14 FRYER DRAIN VALVE HANDLE PARTS ASSEMBLY

I.D. #	PART #	PART DESCRIPTION
1	PP11302	VINYL DRAIN VALVE HANDLE COVER
2	PP10263	DRAIN PROXIMITY SWITCH ACTUATOR
3	B4002902-C	DRAIN VALVE HANDLE FULL, RH SPLIT
	B4002901-C	DRAIN VALVE HANDLE LH SPLIT VAT
4	PP10266	4-40 X 1/4" SCREW
5	PP10647	1/2-13 NUT
6	PP11059	PLUNGER ASSEMBLY
7	A4015801	DRAIN HANDLE RELEASE LEVER
8	PP11303	RELEASE LEVER VINYL COVER
9	B4003001-C	FULL TANK HANDLE ASSEMBLY
(Complete drain valve handle assy)	B4003003-C	LH SPLIT TANK HANDLE ASSEMBLY
	B4003005-C	RH SPLIT TANK HANDLE ASSEMBLY

AG14 FRYER DRAIN VALVE HANDLE PARTS DRAWING

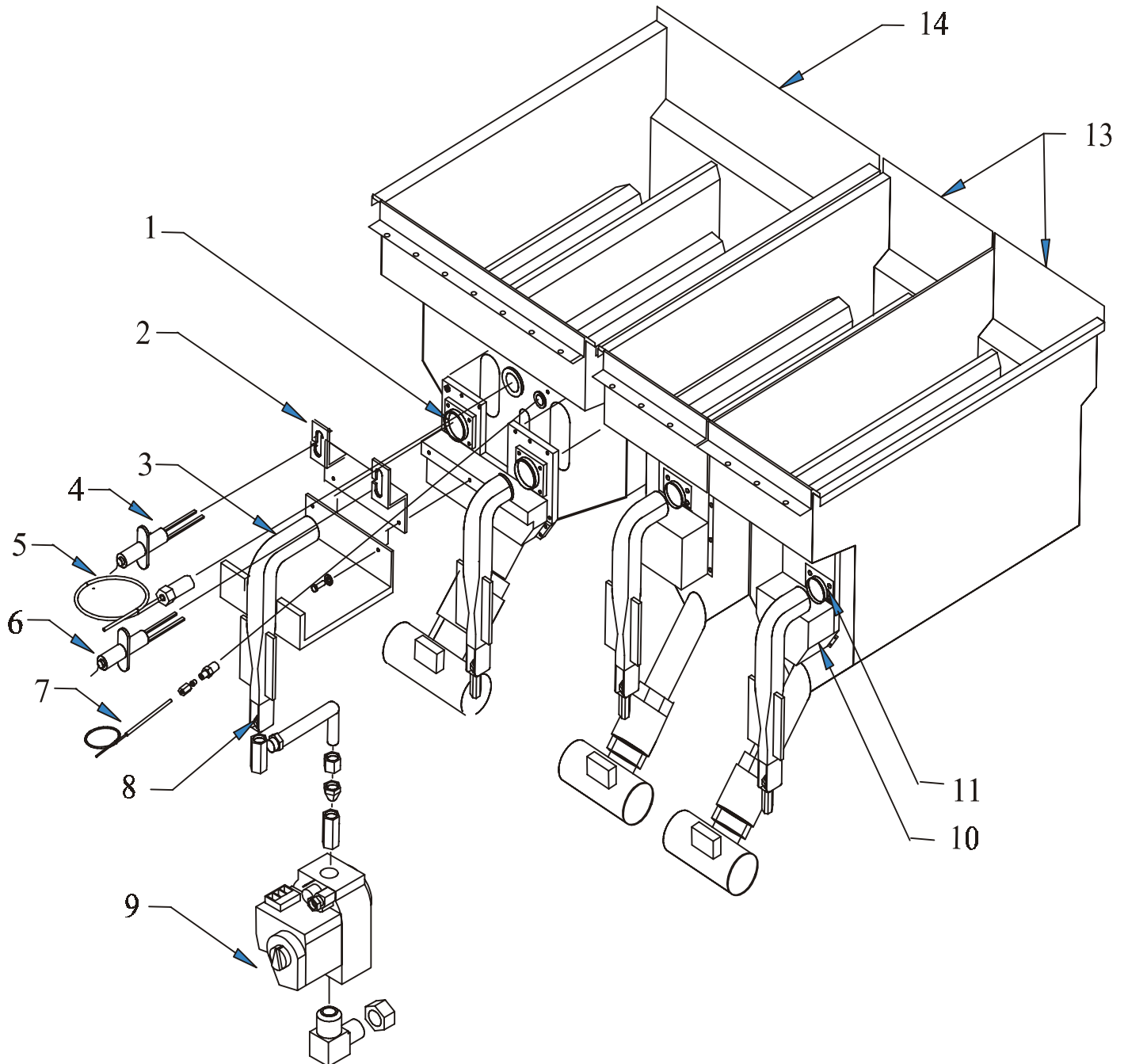


AG14 GAS & BURNER SYSTEM

PARTS LISTS

I.D. #	PART #	PART DESCRIPTION
1	B3317701-C	FULL TANK BURNER BOX ASSY.
	B3321101-C	FULL TANK BURNER BOX IN SUL. KIT
2	PP11064	HI LIMIT SWITCH
3	A8027301	IGNITOR MOUNTING BRACKET
4	B8022301-C	BURNER (DOMESTIC)
	B8027001-C	BURNER (CE GERMANY)(CE LP)
5	PP11131	IGNITOR (DOMESTIC)
	PP11193	IGNITOR (CE)
6	PP11193	FLAME SENSOR (CE)
7	CALL SERVICE AGENT FOR #BURNER ORIFICE	
8	B8022001-C	GAS VALVE ASSY. FULL TANK (NAT)
	B8022101-C	GAS VALVE ASSY. LH SPLIT TANK (NAT)
	B8022103-C	GAS VALVE ASSY. RH SPLIT TANK (NAT)
	B8022002-C	GAS VALVE ASSY. FULL TANK (PROP)
	B8022102-C	GAS VALVE ASSY. LH SPLIT TANK (PROP)
	B8022104-C	GAS VALVE ASSY. RH SPLIT TANK (PROP)
9	B3316801-C	TEMPERATURE PROBE ASSY.
10	B3314801-C	SPLIT TANK BURNER BOX ASSY. LH
	B3314802-C	SPLIT TANK BURNER BOX ASSY. RH
	B3321201-C	SPLIT TANK BURNER BOX IN SUL. KIT
11	B8021602-C	COMBUSTION TUBE (FULL & SPLIT TANK)
12	B3316601-C	SPLIT TANK
13	B3316501-C	FULL TANK

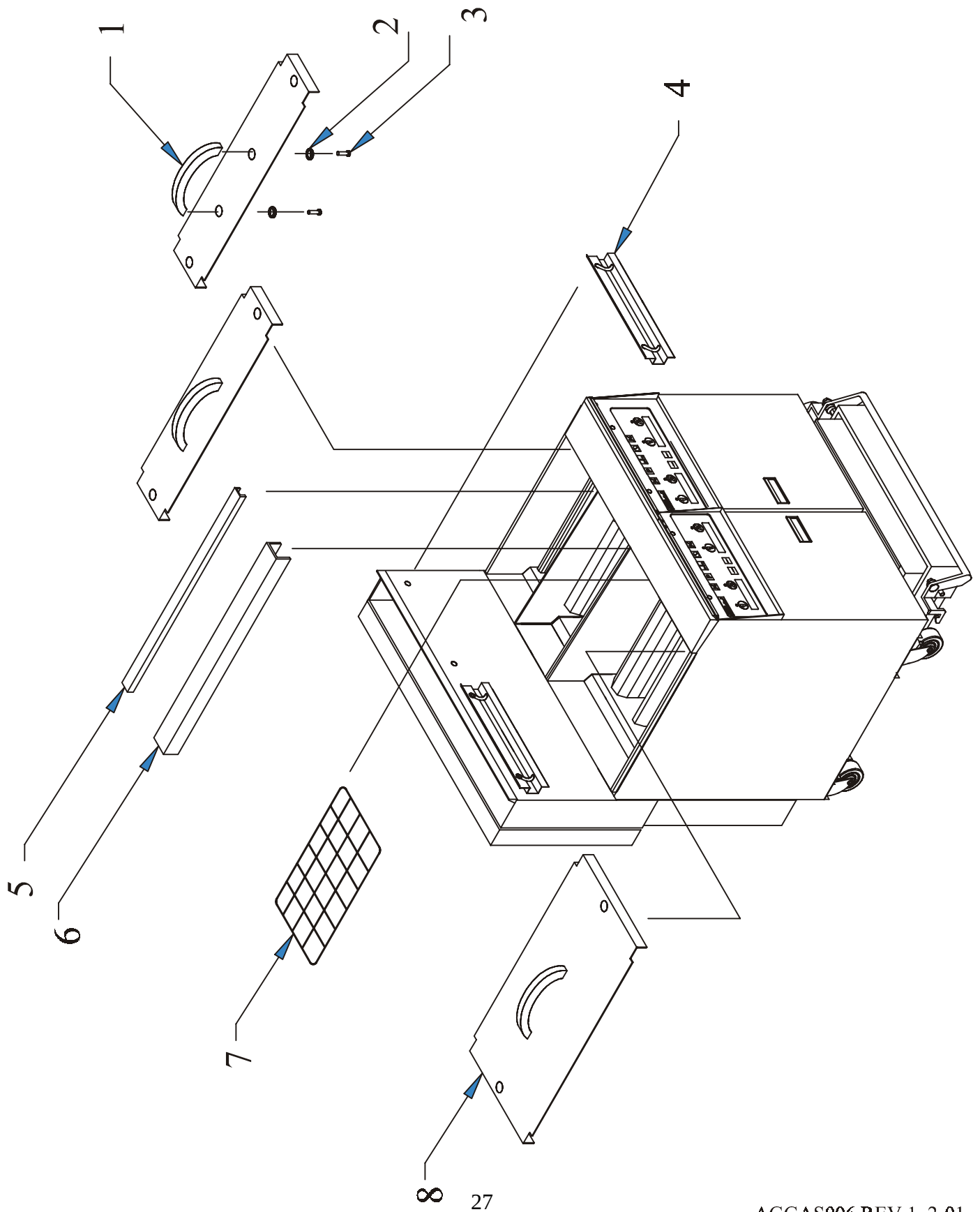
AG/MG GAS & BURNER SYSTEM



AG14 FRYER ACCESSORIES PARTS LISTS

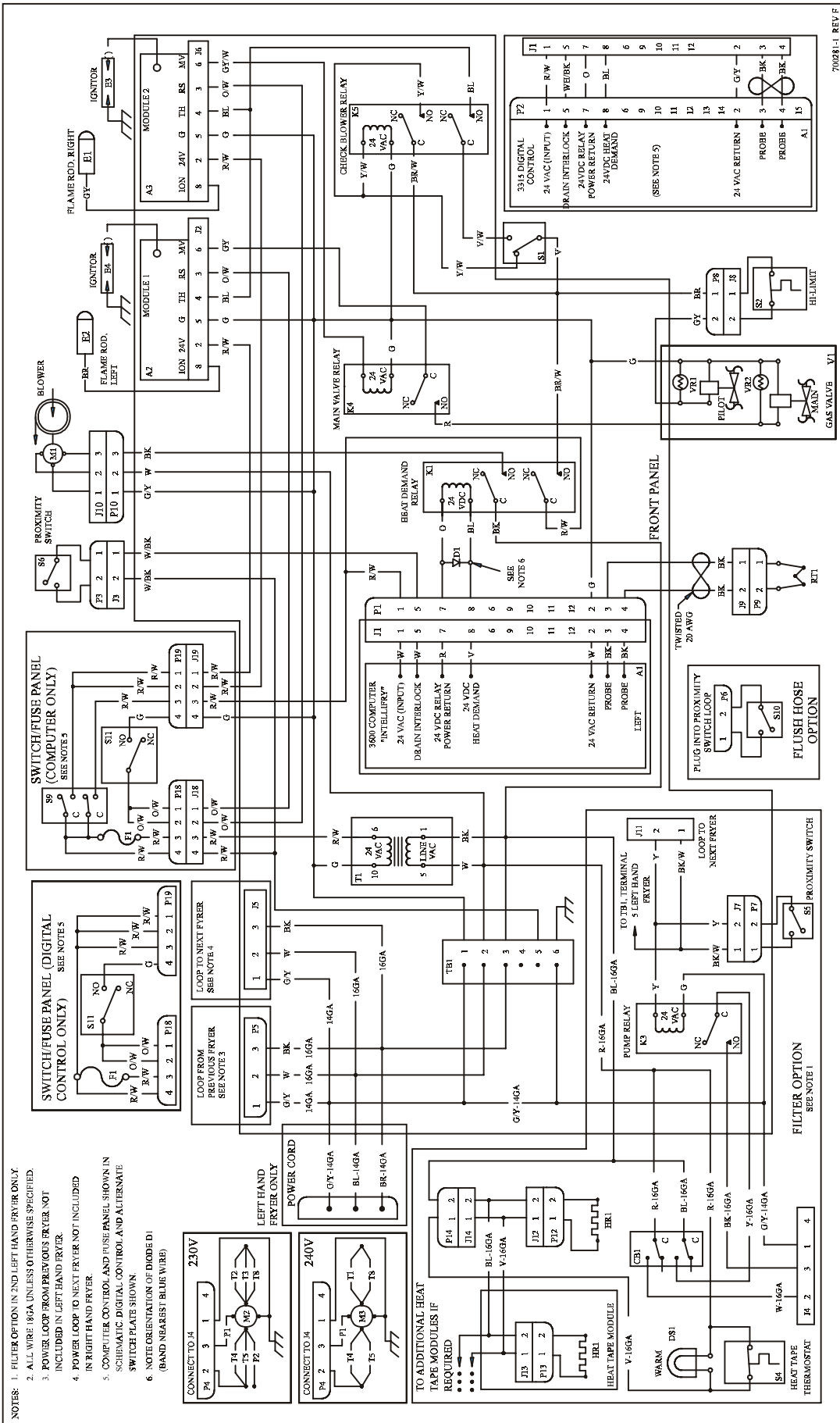
I.D. #	PART #	PART DESCRIPTION
1	PP11332	FRYER COVER HANDLE
2	P0082400	WASHER
3	PP10693	SCREW
4	A1103202	BASKET HANGER
5	A1907504	CHANNEL STRIP INTERIOR OF A SPLIT
6	A1906804	CHANNEL STRIP (SPLIT TO SPLIT TANK)
	A1906804	CHANNEL STRIP (SPLIT TO FULL, FULL TO FULL TANK)
7	P6073148	TUBE RACK (FULL TANK)
	B4510401-C	TUBE RACK (SPLIT TANK)
8	B2100904-C	COVER ASSEMBLY (FULL TANK)
	B2100903-C	COVER ASSEMBLY (SPLIT TANK)

AG14 FRYER ACCESSORIES



AG14 CE FULL TANK SCHEMATIC 700281 REV F

PARTS LIST		
REFERENCE DESIGNATOR	PART NO.	DESCRIPTION
A1	PP11370	COMPUTER, 3600 14 SINGLE CE
	PP11306	CONTROL, TSTAT DIGITAL 3315
A2,A3	PP11145	IGNITION CONTROL MODULE 24 VAC
CB1	PP10470	SWITCH, CIRCUIT BREAKER DPST 4A
D1	PP11050	DIODE, 400V 1A SILICONE
DS1	PP10736	LAMP, 250VAC GREEN
E1,E2	PP11368	FLAME ROD
E3,E4	PP11131	IGNITER
F1	P5045717	FUSE, 2A SLOW BLOW
HR1	PP10588	HEATER TAPE, 96 WATT 240V 1/2 X 48
	PP10080	HEATER TAPE, 165 WATT 240V 1/2 X 79
J1	PP10209	CONNECTOR, JACK-12 SKT MOLEX
J2,J6	PP11158	CONNECTOR, JACK-8 SKT INLINE
J4,J18,J19	PP10203	CONNECTOR, JACK-4 SKT MOLEX
J5,J10	PP10089	CONNECTOR, JACK-3 SKT MOLEX
J3,J7,J8,J9 J12,J13,J14	P5045839	CONNECTOR, JACK-2 SKT MOLEX
K1	PP11036	RELAY, 24VDC DPST 30A
K4	P5046688	RELAY, 24VAC SPDT
K3	PP11058	RELAY, 24VAC SPST 30A
K5	P5046686	RELAY, 24VAC DPDT
M1	PP11129	BLOWER, 230V 50HZ
M2	PP10101	PUMP, 230V
M3	PP10171	PUMP, 240V
P1	PP10208	CONNECTOR, PLUG-12 PIN MOLEX
P4,P18,P19	PP10202	CONNECTOR, PLUG-4 PIN MOLEX
P5,P10	PP10090	CONNECTOR, PLUG-3 PIN MOLEX
P3,P6,P7,P8,P9 P12,P13,P14	P5045829	CONNECTOR, PLUG-2 PIN MOLEX
P2	PP10090	CONNECTOR, PLUG-15 PIN MOLEX
RT1	PP11065	PROBE, THERMISTOR
S1	PP11137	SWITCH, PRESSURE CE
S2	PP11064	SWITCH, HI-LIMIT
S5,S6,S10	PP10262	SWITCH, PROXIMITY SENSOR
S11	P5047151	SWITCH, PB SPST (1)-0
S4	PP10739	THERMOSTAT, HEAT TAPE
S9	PP11284	SWITCH, BRKR DPST (I-O) 3/4 HP W/IEC SYMBOL
T1	PP10429	TRANSFORMER, 80VA 240V TO 24V
TB1	PP11176	TERMINAL BLOCK, 6 POSITION SEMS
V1	PP11142	VALVE, GAS 24VAC NAT
	PP10958	VALVE, GAS 24VAC LP
VR1,VR2	PP11353	VARISTOR, SNUBBER MOV 56V 2000A



AG14 CE SPLIT TANK SCHEMATIC 700282 REV F

PARTS LIST		
REFERENCE DESIGNATOR	PART NO.	DESCRIPTION
A1	PP11372	COMPUTER, 3600 14 DUAL CE
	PP11307	CONTROL,TSTAT DIGITAL EP 3315
A2,A3	PP11145	MODULE
CB1	PP10470	SWITCH, CIRCUIT BREAKER
D1,D2	PP11050	DIODE, 400V 1A SILICONE
DS1	PP10736	LAMP, 250 VAC GREEN
E1,E2	PP11368	FLAME ROD
E3,E4	PP11131	IGNITER
F1	P5045717	FUSE, 2A SLOW BLOW
HR1	PP10080	HEAT TAPE - 240 VAC, 165 W
	PP10588	HEAT TAPE - 240 VAC, 96 W
J1,J2	PP10209	CONNECTOR, JACK-12 SKT MOLEX
J3,J4	PP11158	CONNECTOR, JACK-8 SKT INLINE
J18,J20,J21	PP10203	CONNECTOR, JACK-4 SKT MOLEX
J9,J19	PP10089	CONNECTOR, JACK-3 SKT MOLEX
J5,J6,J7,J8,J10, J11,J12,J13,J14 J15,J16,J17,J26	P5045839	CONNECTOR, JACK-2 SKT MOLEX
K1,K2	PP11068	RELAY, HEAT DEMAND 24 VDC DPST
K5,K7	P5046686	RELAY, 24 VAC DPOT
K3,K6	PP11058	RELAY, 24 VAC SPST 30A
M1	PP11129	BLOWER, 230V 50 HZ
M2	PP10101	PUMP, 230V
M3	PP10171	PUMP, 240V
P1,P2	PP10518	CONNECTOR, PLUG-15 PIN MOLEX
P23,P24	PP10208	CONNECTOR, PLUG-12 PIN MOLEX
P18,P20,P21	PP10202	CONNECTOR, PLUG-4 PIN MOLEX
P9,P19	PP10090	CONNECTOR, PLUG-3 PIN MOLEX
P5,P6,P7,P8,P10 P11,P12,P13,P14 P15,P16,P17 P25,P26	P5045829	CONNECTOR, PLUG-2 PIN MOLEX
RT1,RT2	PP11065	PROBE, THERMISTOR
S1	PP11137	SWITCH, PRESSURE CE
S2,S3	PP11064	SWITCH, HI-LIMIT
S4	PP10739	THERMOSTAT, HEAT TAPE
S5,S6,S7,S8	PP10262	SWITCH, PROXIMITY SENSOR
S11,S12	P5047151	SWITCH, PB SPST (1)-0
S9,S10	PP11284	SWITCH, RKR DPST (I-O) 3/4 HP W/IEC SYM
T1	PP10429	TRANSFORMER, 80VA 240V TO 24V
TB1	PP11176	TERMINAL BLOCK, 6 POSITION SEMS
V1,V2	PP11142	VALVE, GAS 24VAC NAT
	PP10958	VALVE, GAS 24VAC LP
VR1,VR2,VR3,VR4	PP11353	VARISTOR, SNUBBER MOV 56V 2000A

Should you have any questions about or problems with your equipment, please contact the Dealer or Parts and Service representative covering you area. Pitco Frialator may be contacted directly at:

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