



5 MINUTES AUTOCLEAN TESTING MODE Inferno 3500

Important: Access enabled only in Startup Mode (after power interruption), with the message
<PLEASE DO NOT ADD WATER>

Press and hold together for 3 seconds **CLEAN** and **UP** keys, msg: <ENTER TO RUN / OR STOP>
Press **ENTER** and Service Autoclean will start

5 Minutes Clean Test Parameters

Released with Software version 35H09 0214

Clean Test PARAMETERS			
Prewash	cycles	1	nr.
	water	10	seconds
	soak	0	minutes
	prime	0	seconds
	drain	20	seconds
Wash	cycles	1	nr.
	water	10	seconds
	degreaser	20	seconds
	prime	1	0.3 seconds
	spray	30	seconds
	soak	10	seconds
	drain	20	seconds
1st Rinse	cycles	1	nr.
	water	10	seconds
	spray	30	seconds
	drain	20	seconds
Power Rinse	cycle	1	nr.
	spray	30	seconds
	drain	20	seconds
Final Rinse	cycles	1	nr.
	water	10	seconds
	spray	30	seconds
	drain	20	seconds

Note: Only in Auto Clean or Auto Clean Test modes, pressing and holding together for 3 seconds **EDIT** and **CLEAN** the display will show live the circulation pump current in decimal value (not amps) for a period of 30 seconds.
Press **EDIT** key to exit from the Pump Current Display or wait 30 seconds.

To force the Shutdown of the Auto Clean, use the following key combination:

Press and hold together for 3 seconds **CLEAN** and **DOWN** keys.

INFERNO 3500 – (Board Revision 5)

CONTROLLER TROUBLESHOOTING GUIDE

	Condition	Action
1	Blank Display	<ul style="list-style-type: none"> - Check if the green LED from bottom right of the Display board is flashing, if not reset power - Check Power to the Display 10vac at J3 (BLK & RED)
2	A frozen or scrambled message on the display and/or keyboard non responding	<ul style="list-style-type: none"> - Check Communication cable between J4 from the Controller and J4 from the Display (GRN,RED,BLK). Check if it's any loose pin/wire on each side. - Check if LED (24) from Controller is flashing and if not reset power or - Check Power to the Controller 10vac at J13 (BLK & RED) - Check if the green LED from bottom right of the Display board is flashing, if not reset power
2a	Blank Display or Frozen Message or Keyboard Not Responding	<ul style="list-style-type: none"> - Reset battery: Turn Off the power, press and hold 10 sec. the black reset button located beside the keyboard. Release the button and turn On the power. - Older ovens without reset button: Turn Off the power and disconnect the 3.6V battery from the controller-J8. Wait for 10 seconds, reconnect the battery and turn On the power.
3	Drive Motor not turning	<ul style="list-style-type: none"> - Check if the LED (1) is lit - Controller - Check fuse F3 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Motor 120vac (RED from J7-Controller and WHT from Motor)
4	Water solenoid fill valve not opening	<ul style="list-style-type: none"> - Check if the LED (2) is lit - Controller - Check fuse F3 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Valve 120vac (BLU from J7-Controller and WHT from Valve)
5	Circulation pump not running	<ul style="list-style-type: none"> - Check if the LED (4) is lit - Controller - Check fuse F3 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Circulation Pump 120vac (PRP from J7-Controller and WHT from Pump)
6	No ignition, no Safety Lockout Alarm	<ul style="list-style-type: none"> - Check if the Green LED (6) is lit - Controller - Check Power to Outputs 24vac at J9 (ORG & BRN) - Controller - Check wiring at J9 (24vac at BLU & BRN) - Controller
7	Drain solenoid valve not opening	<ul style="list-style-type: none"> - Check if the LED (12) is lit - Controller - Check fuse F2 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Drain Pump 120vac (GRY from J7-Controller and WHT from Drain Pump)
8	Oven lights not lit except: 5 seconds after start up, or in sleep mode, after Clean	<ul style="list-style-type: none"> - Check if the LED (13) is lit - Controller - Check fuse F2 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Light 120vac (ORG from J7-Controller and WHT from Light transformer)
9	Degreaser pump not running	<ul style="list-style-type: none"> - Check if the LED (14) is lit - Controller - Check fuse F2 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Degreaser Pump 120vac (YLW from J7-Controller and WHT from Degreaser Pump transformer)
10	Buzzer alarm not functioning	<ul style="list-style-type: none"> - Check if the LED (16) is lit - Controller - Check Power to Outputs 24v at (ORG & BRN) - Controller - Check wiring at J9 (24v at GRY & BRN - Controller)
11	Drain valve sensor not working properly	<ul style="list-style-type: none"> - Check if the LED (20) is lit when the valve is closed - Controller - Remove J5 male. Using a jumper, connect on the Controller female J5 the pins corresponding to GRY and YLW wires. LED (20) should light up.
12	Door switch not working properly	<ul style="list-style-type: none"> - Check if the LED (21) is lit when the door is closed - Controller - Remove J5 male. Using a jumper, connect on the Controller female J5 the pins corresponding to BRN and YLW wires. LED (21) should light up.
13	Degreaser level sensor not working properly	<ul style="list-style-type: none"> - To check the signal, enter the Testing Mode (use "Service Testing Mode" document). - Remove J5 male. Using a jumper, connect on the Controller female J5 the pins corresponding to RED and YLW wires. The message on the display should be "LEVEL GOOD". Remove the jumper and the message changes to "LEVEL LOW". - Note: The signal usually delays 2 seconds.

Note. If the above described actions are unsuccessful:

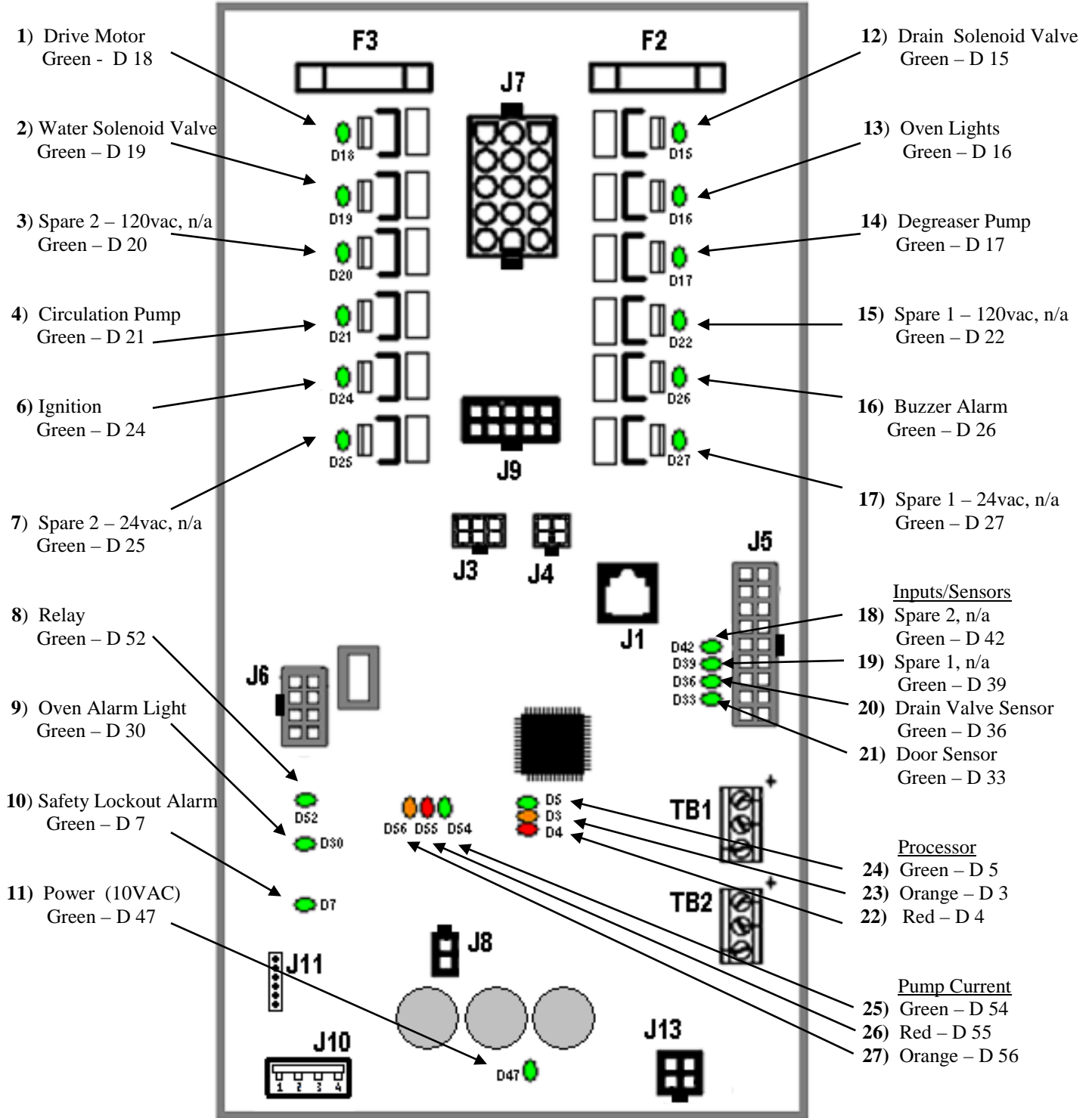
Check the other components (motors, pumps, sensors, transformers, ignition, solenoids ...etc.) or wires, connectors.

INFERNO 3500 CONTROLLER (Board Revision 5) LEDs DESCRIPTION

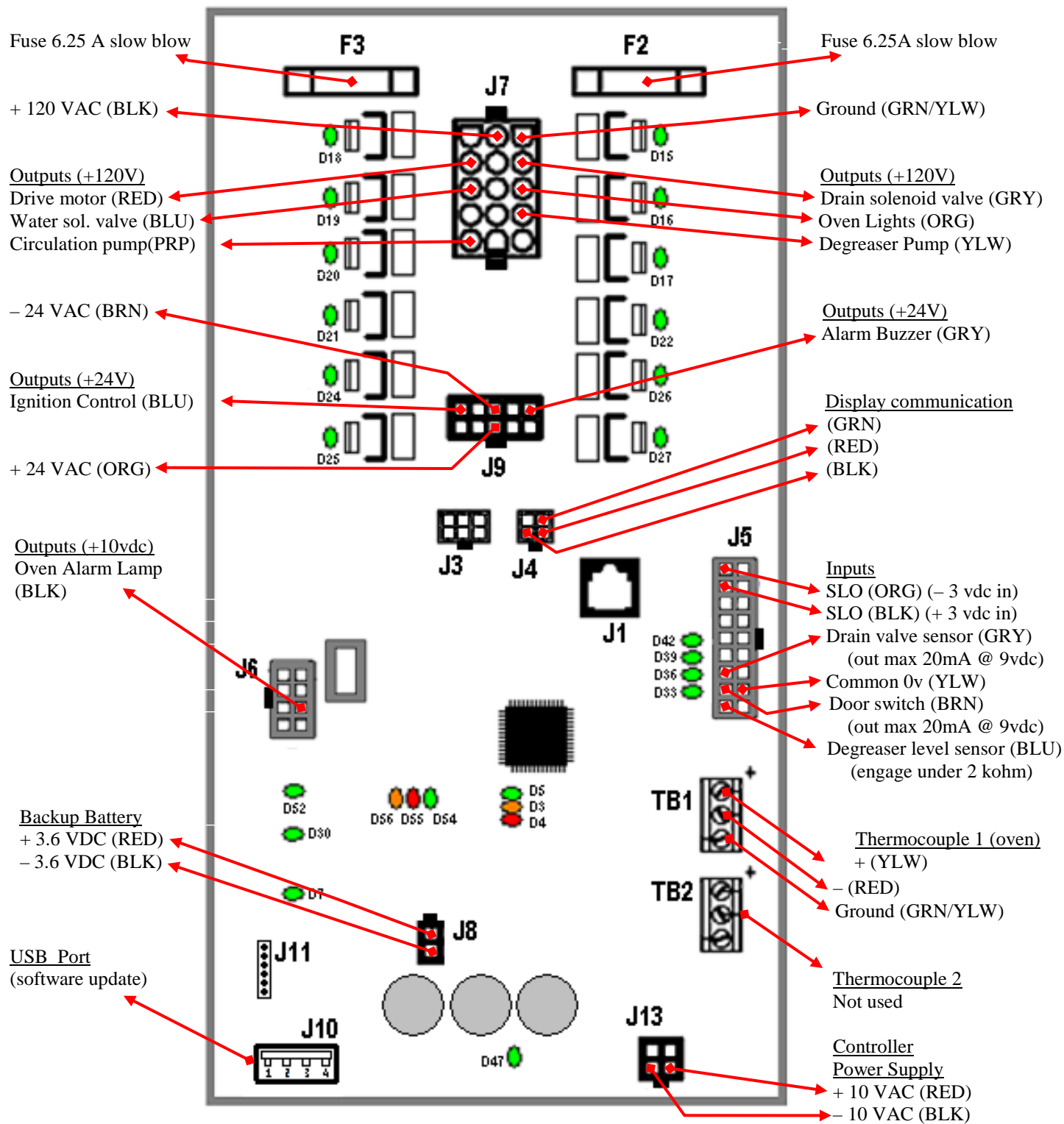
NOTE: The numbers from this list correspond to the numbers from the Controller Layout LEDs MAP from the next page. The markings from the board <e.g. D-53> are specified on the map.

- 1) Drive Motor LED - ON when the output is activated.
- 2) Water Solenoid Valve LED - ON when the output is activated.
- 3) Spare 2 (120vac output) LED, n/a - ON when the output is activated.
- 4) Circulation Pump LED - ON when the output is activated.
- 5) N/A
- 6) Ignition LED - ON when the output is activated.
- 7) Spare 2 (24vac output) LED, n/a - ON when the output is activated.
- 8) Relay LED, n/a - ON when the NO contact of the relay is closed.
- 9) Oven Alarm Light LED, optional - ON when the output is activated.
- 10) Safety Lockout Alarm LED, n/a - ON when the output is activated.
- 11) Power LED - ON when 10 VAC is applied to the Controller through J 13.
- 12) Drain Solenoid Valve LED - ON when the output is activated.
- 13) Oven Lights LED - ON when the output is activated.
- 14) Degreaser Pump LED - ON when the output is activated.
- 15) Spare 1 (120vac output) LED, n/a - ON when the output is activated.
- 16) Buzzer Alarm LED - ON when the output is activated.
- 17) Spare 2 (24vac output) LED, n/a - ON when the output is activated.
- 18) Spare 2 Input LED - ON when the external sensor is closed, n/a.
- 19) Spare 1 Input LED - ON when the external sensor is closed, n/a.
- 20) Drain Valve Sensor LED - ON when the external drain valve sensor is closed (manual drain valve closed)
- 21) Door Sensor LED - ON when the external door sensor is closed (the door is closed).
- 22, 23, 24) Processor LEDs – Green, Orange and Red
 - Flashing sequence at Start-up:
 - All 3 ON for 1 second
 - All 3 OFF for 1 second
 - Green only pulsates 3 times
 - Backup battery - present, Green flashes rapidly 3 times
- not present, Red flashes rapidly 3 times
 - All 3 ON for 1 second
 - All 3 OFF for 1 second
 - Green pulsates every second in normal operation
- 25) Pump Current Green LED - ON when the pump is on and the current is normal (enough water).
- 26) Pump Current Red LED - ON when the pump is on and the current is low.
This Red LED is also ON when the pump is off and the voltage applied to the Controller is lower than normal.
- 27) Pump Current Orange LED - ON when the pump current is too high or at the pump start for a very short period of time.

INFERNO 3500 CONTROLLER (Board Revision 5) --- LEDs MAP



INFERNO 3500 CONTROLLER (Board Revision 5) --- LAYOUT



INFERNO 3500 – (Board Revision 3 and before) CONTROLLER TROUBLESHOOTING GUIDE

	Condition	Action
1	Blank Display	<ul style="list-style-type: none"> - Check if the green LED from bottom right of the Display board is flashing, if not reset power - Check Power to the Display 10vac at J3 (BLK & RED)
2	A frozen or scrambled message on the display and/or keyboard non responding	<ul style="list-style-type: none"> - Check Communication cable between J4 from the Controller and J4 from the Display (GRN,RED,BLK). Check if it's any loose pin/wire on each side. - Check if LED (24) from Controller is flashing and if not reset power or - Check Power to the Controller 10vac at J13 (BLK & RED) - Check if the green LED from bottom right of the Display board is flashing, if not reset power
2a	Blank Display or Frozen Message or Keyboard Not Responding	<ul style="list-style-type: none"> - Reset battery: Turn Off the power, press and hold 10 sec. the black reset button located beside the keyboard. Release the button and turn On the power. - Older ovens without reset button: Turn Off the power and disconnect the 3.6V battery from the controller-J8. Wait for 10 seconds, reconnect the battery and turn On the power.
3	Drive Motor not turning	<ul style="list-style-type: none"> - Check if the LED (1) is lit - Controller - Check fuse F3 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Motor 120vac (RED from J7-Controller and WHT from Motor)
4	Water solenoid fill valve not opening	<ul style="list-style-type: none"> - Check if the LED (2) is lit - Controller - Check fuse F3 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Valve 120vac (BLU from J7-Controller and WHT from Valve)
5	Circulation pump not running	<ul style="list-style-type: none"> - Check if the LED (4) is lit - Controller - Check fuse F3 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Circulation Pump 120vac (PRP from J7-Controller and WHT from Pump)
6	No ignition, no Safety Lockout Alarm	<ul style="list-style-type: none"> - Check if the Green LED (6) is lit - Controller - Check Power to Outputs 24vac at J9 (ORG & BRN) - Controller - Check wiring at J9 (24vac at BLU & BRN) - Controller
7	Drain solenoid valve not opening	<ul style="list-style-type: none"> - Check if the LED (12) is lit - Controller - Check fuse F2 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Drain Pump 120vac (GRY from J7-Controller and WHT from Drain Pump)
8	Oven lights not lit except: 5 seconds after start up, or in sleep mode, after Clean	<ul style="list-style-type: none"> - Check if the LED (13) is lit - Controller - Check fuse F2 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Light 120vac (ORG from J7-Controller and WHT from Light transformer)
9	Degreaser pump not running	<ul style="list-style-type: none"> - Check if the LED (14) is lit - Controller - Check fuse F2 - Controller - Check Power to Outputs 120vac (BLK from J7-Controller and WHT from terminal block) - Check Power to Degreaser Pump 120vac (YLW from J7-Controller and WHT from Degreaser Pump transformer)
10	Buzzer alarm not functioning	<ul style="list-style-type: none"> - Check if the LED (16) is lit - Controller - Check Power to Outputs 24v at (ORG & BRN) - Controller - Check wiring at J9 (24v at GRY & BRN - Controller)
11	Drain valve sensor not working properly	<ul style="list-style-type: none"> - Check if the LED (20) is lit when the valve is closed - Controller - Remove J5 male. Using a jumper, connect on the Controller female J5 the pins corresponding to GRY and YLW wires. LED (20) should light up.
12	Door switch not working properly	<ul style="list-style-type: none"> - Check if the LED (21) is lit when the door is closed - Controller - Remove J5 male. Using a jumper, connect on the Controller female J5 the pins corresponding to BRN and YLW wires. LED (21) should light up.
13	Degreaser level sensor not working properly	<ul style="list-style-type: none"> - To check the signal, enter the Testing Mode (use "Service Testing Mode" document). - Remove J5 male. Using a jumper, connect on the Controller female J5 the pins corresponding to RED and YLW wires. The message on the display should be "LEVEL GOOD". Remove the jumper and the message changes to "LEVEL LOW". - Note: The signal usually delays 2 seconds.

Note. If the above described actions are unsuccessful:

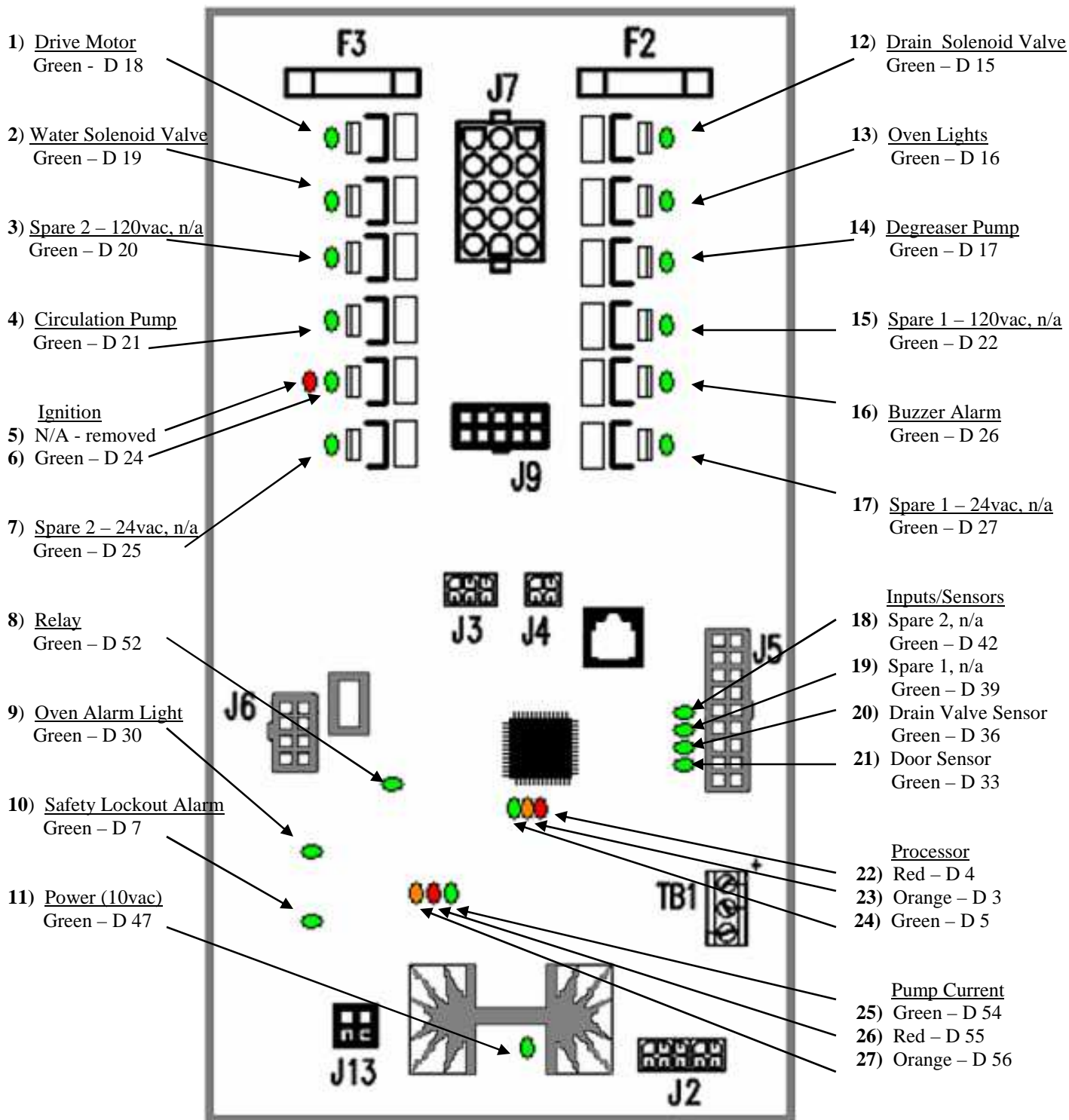
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INFERNO 3500 CONTROLLER (Rev. 3 and before) LEDs DESCRIPTION

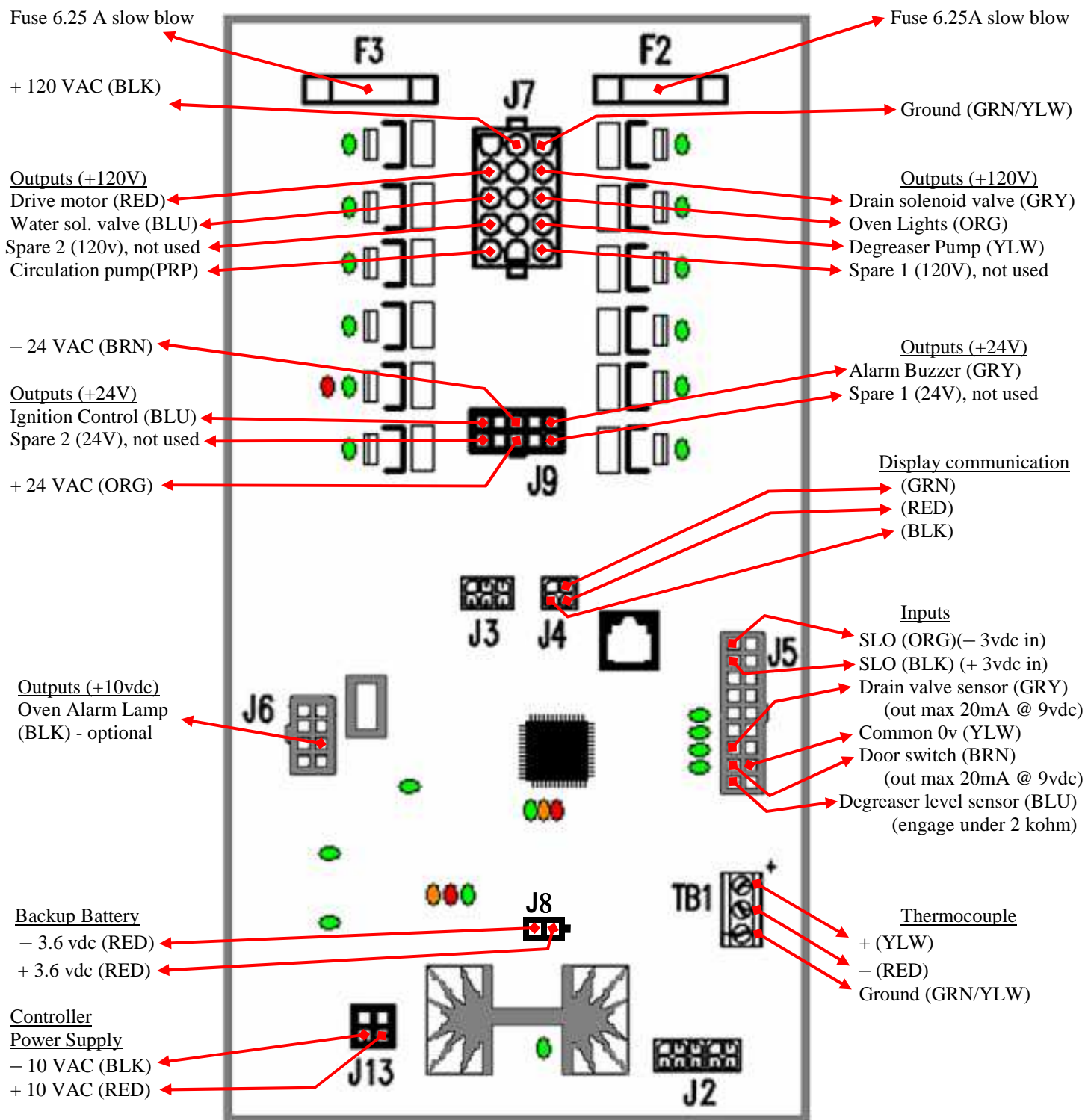
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- 1) Drive Motor LED - ON when the output is activated.
- 2) Water Solenoid Valve LED - ON when the output is activated.
- 3) Spare 2 (120vac output) LED, n/a - ON when the output is activated.
- 4) Circulation Pump LED - ON when the output is activated.
- 5) N/A
- 6) Ignition LED - ON when the output is activated.
- 7) Spare 2 (24vac output) LED, n/a - ON when the output is activated.
- 8) Relay LED, n/a - ON when the NO contact of the relay is closed.
- 9) Oven Alarm Light LED, optional - ON when the output is activated.
- 10) Safety Lockout Alarm LED, n/a - ON when the output is activated.
- 11) Power LED - ON when 10 VAC is applied to the Controller through J 13.
- 12) Drain Solenoid Valve LED - ON when the output is activated.
- 13) Oven Lights LED - ON when the output is activated.
- 14) Degreaser Pump LED - ON when the output is activated.
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- 18) Spare 2 Input LED - ON when the external sensor is closed, n/a.
- 19) Spare 1 Input LED - ON when the external sensor is closed, n/a.
- 20) Drain Valve Sensor LED - ON when the external drain valve sensor is closed (manual drain valve closed)
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- 25) Pump Current Green LED - ON when the pump is on and the current is normal (enough water).
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This Red LED is also ON when the pump is off and the voltage applied to the Controller is lower than normal.
- 27) Pump Current Orange LED - ON when the pump current is too high or at the pump start for a very short period of time.

INFERNO 3500 CONTROLLER (Rev. 3 and before) --- LEDs MAP



INFERNO 3500 CONTROLLER (Rev. 3 and before) LAYOUT



How To Operate Inferno 3500 Controller



Preheat	section 4
Cooking Favorite	section 5
Cooking Ready, Add Cook Time	section 6
Cooking Manual Program	section 7

Cooking Preset Program (1-16)	section 8
Auto Clean	section 9
Sleep Mode	section 10
Favorite Cooking Program Selection	section 11
Power interruption behavior	section 12

Action	Message	Observation
1 Turn ON the power.	STARTUP 35H(Y Y) (MMDD)	Software version name
2 Wait 4 seconds	PLEASE DO NOT ADD WATER UNTIL FLAME IS VISIBLE ENTER IF OK	Conditions for start
3 Press ENTER	PREHEAT OR CLEAN	Select and press the corresponding key
4.1 From step 3 If PREHEAT pressed	PREHEATING PLEASE WAIT	Time or temperature STOP pressed and held 3 seconds clears the program
4.2 If preheat ready	OVEN READY PRESS FAV OR UP KEY FOR COOKING	Burner will cycle at the preset Preheat temperature. Select a Favorite recipe (FAV key) or a Manual (UP key) cooking program or one of the 16 preset cooking programs (UP key)
5 From step 4.2 If FAV 1 or 2 or 3 or 4 pressed	COOKING / (product name) / (nr. of) SKEWERS IN (time left) MIN	Cooking starts with the preset Favorite program STOP pressed and held 3 seconds clears the program
6.1 If cooking is ready	COOKING FINISHED / CHECK INTERNAL TEMPERATURE (value) F 5 MN OR STOP	Burner will cycle at the preset Holding temperature. Press + 5 MIN if needed or STOP to clear the program and go back to step 3
6.2 If + 5 MIN pressed	ADD 5 MIN OR PRESS AGAIN	Press + 5 MIN again within 2 seconds to add more time or if no key is pressed, the cooking will start with the last program temperature for 5 minutes time (message 5)
6.3 If + 5 MIN pressed again	ADD 10 MN OR PRESS AGAIN	Press + 5 MIN again within 2 seconds to add more time or if no key is pressed, the cooking will start with the last program temperature for 10 minutes time (message 5)
6.4 If + 5 MIN pressed again	ADD 15 MN OR PRESS AGAIN	Press + 5 MIN again within 2 seconds to go back to 5 min or if no key is pressed, the cooking will start with the last program temperature for 15 minutes time (message 5)

7.1	From step 4.2 If UP key pressed	P0 / --- SKS PRODUCT ---	Using UP or DOWN arrow, the display will show the list of all 17 cooking programs (P0 is the manual program). Select P0 and press ENTER.
7.2	If P0 was selected	COOK 1 TEMP (temp) F	Press ENTER to edit the cooking temperature in the 1st stage, use UP or DOWN to change it, then ENTER again to load it. Press DOWN to move to the next parameter.
7.3	If DOWN was pressed	COOK 1 TIME (time) MIN	Press ENTER to edit the cooking time in the 1st stage, use UP or DOWN to change it, then ENTER again to load it. Press DOWN to move to the next parameter.
7.4	If DOWN was pressed	COOK 2 TEMP (temp) F	Press ENTER to edit the cooking temperature in the 2nd stage, use UP or DOWN to change it, then ENTER again to load it. Press DOWN to move to the next parameter.
7.5	If DOWN was pressed	COOK 2 TIME (time) MIN	Press ENTER to edit the cooking time in the 2nd stage, use UP or DOWN to change it, then ENTER again to load it. Press DOWN.
7.6	If DOWN pressed	ENT TO COOK STOP TO EXIT	Press ENTER to start cooking. Or press STOP to exit editing to go back to step 4.2
7.7	If ENTER pressed	COOKING / (product name) / (nr. of) SKEWERS IN (time left) MIN	Cooking starts with the preset Manual program (P0). Next is step 6.1 STOP pressed and held 3 seconds clears the program
8.1	From step 4.2 If UP key pressed	P0 / --- SKS PRODUCT ---	Using UP or DOWN arrow, the display will show the list of all 17 cooking preset programs . Select one of the (P1-P16) and press ENTER.
8.2	If ENTER pressed	COOKING / (product name) / (nr. of) SKEWERS IN (time left) MIN	Cooking starts with the preset program (P1-P16) Next is step 6.1 STOP pressed and held 3 seconds clears the program

Note: Only in Auto Clean mode, pressing and holding together for 3 seconds EDIT and CLEAN the display will show live the circulation pump current in decimal value (not amps) for a period of 30 seconds.

9.1	From step 3 If CLEAN pressed	ENTER TO RUN OR STOP	Press ENTER to run Clean or STOP to clear.
9.2	If Drain Valve is open	CLOSE DRAIN VALVE PRESS CLEAN	Close the manual Drain Valve, then press CLEAN Program will move to step 9.3
9.3	If Degreaser Level is low	REFILL DEGREASER BOTTLE PRESS CLEAN	Refill the Degreaser bottle, then press CLEAN Program will move to step 9.4
9.4	Temperature check	CHECKING OVEN TEMPERATURE WAIT (time) SEC	If the door is used during temperature checking, the time will reset. If the time elapsed the program will move to the next step
9.5	If Oven temperature is greater than the preset minimum clean temperature	CLEAN COOLDOWN	The program will wait for the accepted temperature and then move to step 9.6 If the door is used during this time, the program will move to step 9.4
9.6	If Oven temperature is lower than the preset minimum clean temperature	PREWASH / REMAINING CLEAN TIME (time) MIN	Auto Clean starts.
9.7	Other Cleaning messages:	SOAP WASH / REMAINING CLEAN TIME FIRST RINSE / REMAINING CLEAN TIME POWER RINSE / REMAINING CLEAN TIME FINAL RINSE / REMAINING CLEAN TIME	If STOP is pressed during PREWASH or SOAP, the program will move to FIRST RINSE If STOP is pressed during FIRST RINSE, POWER RINSE or FINAL RINSE, the program will resume
10	If Auto Clean ended	Display is blank. A red light (LED) is moving above display.	If any of the keys is pressed or if the door is used, the program will move to step 2.
11.1	From step 3. Press and hold together for 3 seconds EDIT and FAV 1 keys	P0 / --- SKS PRODUCT ---	Using UP or DOWN arrow, the display will show the list of all 17 cooking programs (P0 - P16). Select one of them and press ENTER.
11.2	If ENTER was pressed the selected program will be included as a shortcut for Favorite 1		
11.3	Similar procedure is for Favorite 2, 3 or 4		

12 Power interruption behavior

Program Mode	Power interrupted LESS than 2 minutes			Power interrupted MORE than 2 minutes		
	behavior	Message before	Message after	behavior	Message before	Message after
IDLE	Startup	PREHEAT OR CLEAN	STARTUP VERSION	Startup	PREHEAT OR CLEAN	STARTUP VERSION
PREHEAT	Resume	PREHEATING	PREHEATING	Startup	PREHEATING	STARTUP VERSION
PREHEAT READY	Resume	OVEN READY	OVEN READY	Startup	OVEN READY	STARTUP VERSION
COOKING	Resume	COOKING	COOKING	Startup	COOKING	STARTUP VERSION
HOLDING	Resume	COOKING FINISHED	COOKING FINISHED	Startup	COOKING FINISHED	STARTUP VERSION
CLEANING	Resume	cleaning	cleaning	Resume	cleaning	cleaning

FIRST LEVEL OF PROGRAMMING MODE Inferno 3500



Press and hold together for 3 seconds **EDIT** and **VIEW TEMP** keys.

Available Keys

- UP** or **DOWN** = Scroll parameters list
or change a parameter value
- ENTER** = Enter into a submenu
or edit a parameter
or save a parameter value
- STOP** = Exit from editing
or exit from a submenu
or exit from Programming Mode

How To change a parameter:

Select a submenu using **UP** or **DOWN**,
press **ENTER** to get into the submenu,
select the parameter with **UP** or **DOWN**,
press **ENTER** to edit,
change it with **UP** or **DOWN**,
press again **ENTER** to save it,
then press **STOP** to exit or
UP / DOWN to move to next parameter.

Main Menu	Cooking Submenu (P0-P16) Similar for any Cooking Program P0, P1, P2, ..., P15, P16	Cleaning Submenu	
PROGRAMMING FIRST LEVEL	PRODUCT NAME (product name)	PRE WASH CYCLES (value)	
P0 / (number) SKS (product name)	SKEWERS NR (value)	PREWSH WATER (value) SEC	
P1 / (number) SKS (product name)	COOK 1 TEMP (value) F	PREWSH SOAK (value) MIN	continuation
P2 / (number) SKS (product name)	COOK 1 TIME (value) MIN	PREWSH PRIME (value) SEC	1RINSE WATER (value) SEC
... ..	COOK 2 TEMP (value) F	PREWSH DRAIN (value) SEC	1RINSE SPRAY (value) SEC
... ..	COOK 2 TIME (value) MIN	WASH CYCLES (value)	1RINSE DRAIN (value) SEC
... ..	PROD INT TEMP (value) F	WASH WATER (value) SEC	POWER RINSE CYCLES (value)
P15 / (number) SKS (product name)	HOLDING TEMP (value) F	WASH SOAP (value) SEC	PRINSE SPRAY (value) SEC
P16 / (number) SKS (product name)	QUICK WARMUP (value) F	WASH PRIME (value) HSEC	PRINSE DRAIN (value) SEC
CLEANING PARAMETERS	OPT PREHEAT (value) F	WASH SPRAY (value) SEC	FINAL RINSE CYCLES (value)
		WASH SOAK (value) SEC	FRINSE WATER (value) SEC
		WASH DRAIN (value) SEC	FRINSE SPRAY (value) SEC
		1ST RINSE CYCLES (value)	FRINSE DRAIN (value) SEC

SECOND LEVEL OF PROGRAMMING MODE Inferno 3500



Press and hold together for 3 seconds **EDIT** and **+5 MIN** keys.

Available Keys

- UP** or **DOWN** = Scroll parameters list
or change a parameter value
- ENTER** = Enter into a submenu
or edit a parameter
or save a parameter value
- STOP** = Exit from editing
or exit from a submenu
or exit from Programming Mode

How To change a parameter:

Select a submenu using **UP** or **DOWN**,
press **ENTER** to get into the submenu,
select the parameter with **UP** or **DOWN**,
press **ENTER** to edit,
change it with **UP** or **DOWN**,
press again **ENTER** to save it,
then press **STOP** to exit or
UP / DOWN to move to next parameter.

TO CHANGE (RELOAD) FACTORY DEFAULTS:

Access the Second Level of Programming Mode (**EDIT** and **+5 MIN** held 3 seconds),

msg: < PROGRAMMING SECOND LEVEL >

scroll **DOWN twice**, msg.: < DEFAULT PARAMETERS >

press **ENTER**, steady msg.: < RELOAD FACTORY DEFAULTS 1 (or2) >

press again **ENTER**, old value will flash, msg.: < RELOAD FACTORY DEFAULTS _1_ (or 2) >

change value with **DOWN**, new value will flash, msg.: < RELOAD FACTORY DEFAULTS _2_ (or 1) >

press **ENTER**, steady msg.: < RELOAD FACTORY DEFAULTS 2 (or 1) >

WAIT 3 SECONDS (IMPORTANT) then press **STOP twice** to exit "programming".

Main Menu

PROGRAMMING
SECOND LEVEL
SOFT VERSION
(version name)
DEFAULT
PARAMETERS
OTHER
TEMPERATURES
OTHER
TIMERS
CIRCULATION
PUMP CURRENT

Default Parameters Submenu

RELOAD FACT
DEFAULT (set 1 or 2)

Other Temperatures Submenu

PREHEAT
(value) F
PREHEAT LOW
LIMIT (value) F
CLEAN COOL
LIMIT (value) F
(minimum temp to start Autoclean)

Other Timers Submenu

PREHEAT
(value) MIN
OVEN READY
(value) MIN (n/a)
HOLD PRODUCT
(value) MIN
(buzzer reoccurrence period)
CLEAN DELAY
(value) MIN
(checking temperature time delay before Autoclean)

Circulation Pump Current Submenu

PUMP LOW
LIMIT
(minimum current value
in decimal units, NOT Amps)

Programming the INFERNO 3500

FIRST LEVEL – Cooking Programs and AutoClean

1. With the machine turned on and “Press Preheat or AClean” on the display, **press and hold together for 3 seconds “EDIT” and “VIEW TEMP” to get you to the First programming level.**

From here you can program values for up to 16 cooking programs and the AutoClean program. The parameters are:

COOKING PROGRAM

Product Name (up to 12 characters, e.g., CHICKEN)

Number of skewers (e.g., 1-2 skewers)

Stage 1 Temp (in degrees F)

Stage 1 Time (in minutes)

Stage 2 Temp (in degrees F)

Stage 2 Time (in minutes)

Product Internal Temp (for the display, to remind the operator)

Holding Temp (in degrees F)

Quick Warm Temp (in degrees F) –

AUTOCLEAN PROGRAM

Prewash:

- **Number of cycles** (whole number, e.g., 3)
- **Water** (amount of time water is added to the pan, in seconds)
- **Soak** (amount of time between sprays, in minutes)
- **Prime** (amount of time to prime the pump, in seconds)
- **Drain** (amount of time the drain pump runs, in seconds)

Wash:

- **Number of cycles** (whole number, e.g., 90)
- **Water** (amount of time water is added to the pan, in seconds)
- **Degreaser** (amount of time the degreaser pump runs, in seconds)
- **Prime** (amount of time to prime the spray pump, in 0.3 second increments)
- **Spray** (amount of time the spray pump runs, in seconds)
- **Soak** (amount of time between sprays, in seconds)
- **Drain** (amount of time the drain pump runs, in seconds)

1st Rinse:

- **Number of cycles** (whole number, e.g., 5)
- **Water** (amount of time water is added to the pan, in seconds)
- **Spray** (amount of time the spray pump runs, in seconds)
- **Drain** (amount of time the drain pump runs, in seconds)

Power Rinse:

- **Number of cycles** (whole number, e.g., 1)
- **Spray** (amount of time the spray pump runs, in seconds)
- **Drain** (amount of time the drain pump runs, in seconds)

Final Rinse:

- **Number of cycles** (whole number, e.g., 1)
- **Water** (amount of time water is added to the pan, in seconds)
- **Spray** (amount of time the spray pump runs, in seconds)
- **Drain** (amount of time the drain pump runs, in seconds)

2. To move around from parameter to parameter use the “**UP ARROW**” or “**DOWN ARROW**”. When you arrive at the parameter you wish to work with press “**ENTER**” and it will show you the existing value. Use the “**UP ARROW**” or “**DOWN ARROW**” to change the value and press “**ENTER**” when done.
3. Press “**STOP**” any time you want to move back to the previous level, including at the end to get out of the programming mode (the display will read “Press Preheat or AClean” when you are completely out).

Please note, if there is a power glitch and the controller’s defaults need to be reset the programming changes will be lost and need to be re-entered using the steps above.

SECOND LEVEL – Other Parameters and Resetting Defaults

With the machine turned on and “Press Preheat or AClean” on the display, **press and hold together for 3 seconds “EDIT” and “+5 MIN” to get you to the Second programming level.**

From here you can program values for other key temperatures and timers as well as reset controller defaults. The parameters are:

OTHER TEMPERATURES

Preheat Maximum Temp (in degrees F)

Preheat Minimum Temp (in degrees F)

Minimum Cleaning Temp (in degrees F, temp at which AutoClean starts)

OTHER TIMERS

Preheat Duration (in minutes)

Holding Buzzer Repeat Period (in minutes, time lapse between the buzzer sounding once a cooking program is completed)

Cooldown Period Before Cleaning (in minutes, amount of time the controller takes to check the oven temperature to determine if it’s cool enough to run AutoClean)

Water Trickle On Time (in 100ths of a second, the amount of time the water valve is opened to allow water into the pan during a cooking program)

Water Trickle Off Time (in seconds, the amount of time between periods of the water valve being open for the purpose of trickling water into the pan)

To move around from parameter to parameter use the “**UP ARROW**” or “**DOWN ARROW**”. When you arrive at the parameter you wish to work with press “**ENTER**” and it will show you the existing value. Use the “**UP ARROW**” or “**DOWN ARROW**” to change the value and press “**ENTER**” when done.

Press “**STOP**” any time you want to move back to the previous level, including at the end to get out of the programming mode (the display will read “Press Preheat or AClean” when you are completely out).

Please note, if there is a power glitch and the controller’s defaults need to be reset the programming changes will be lost and need to be re-entered using the steps above.



SERVICE TESTING MODE Inferno 3500

Important: Access enabled only in Startup Mode (after power interruption), with the message <PLEASE DO NOT ADD WATER>

Press and hold together for 3 seconds **EDIT** and **UP** and **DOWN** keys.

Available Keys

- UP** or **DOWN** = Scroll the outputs and inputs list
Active only when the output is turned OFF
- ENTER** = Engage the output
- STOP** = Disengage the output
- EDIT** = Exit from Service Testing Mode

The list includes all the outputs:

Use **ENTER** to turn it ON and **STOP** to turn OFF. The output will be engaged only for 30 seconds period of time, then it will be disengaged automatically. It can be engaged again for another 30 seconds and so on as many times as desired.

The list includes all the inputs:

The screen will show live the status of the input. Change the status of the input and check the software reaction.

Outputs and Inputs List

OUTPUTS	
	DRIVE MOTOR OFF (ON)
	CIRCUL PUMP OFF (ON) (and live current value in decimal units, NOT Amps)
	DRAIN VALVE (solenoid) CLOSED (OPEN)
	WATER VALVE (solenoid) CLOSED (OPEN)
	DEGREAS PUMP OFF (ON)
	IGNITION OFF (ON)
	BUZZER OFF (ON)
	OVEN LIGHTS OFF (ON)
INPUTS	
	DOOR CLOSED (OPEN)
	MANUAL DRAIN CLOSED (OPEN)
	DEGR LEVEL LOW (GOOD)

PUMP CURRENT READING IN CLEAN and CLEAN TEST MODES

Important: Feature available only in Cleaning Mode and Clean Test Mode

Press and hold together for 3 seconds **EDIT** and **CLEAN** keys.

The display will show in the bottom right the live value of the circulation pump current in decimal units (same units that are programmable in Programming Mode Level 2), NOT in Amps.

Press **EDIT** key to exit from the Pump Current Display or wait 30 seconds.