SERVICE DATA SHEET

36" Induction Cooktop with Ceramic Glass

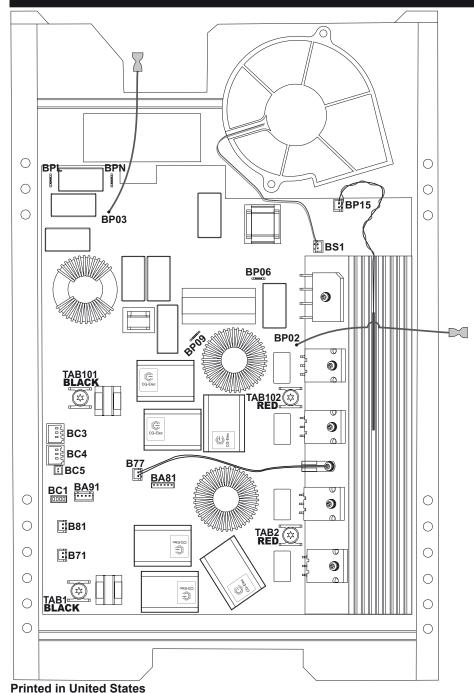
NOTICE - This service data sheet is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. The manufacturer cannot be responsible, nor assume any liability for injury or damage of any kind arising from the use of this data sheet.

SAFE SERVICING PRACTICES

To avoid the possibility of personal injury and/or property damage, it is important that safe servicing practices be observed. The following are examples, but without limitation, of such practices.

- 1. Before servicing or moving an appliance remove power cord from electrical outlet, trip circuit breaker to OFF, or remove fuse.
- 2. Never interfere with the proper installation of any safety device.
- GROUNDING: The standard color coding for safety ground wires is GREEN or GREEN WITH YELLOW STRIPES. Ground
 leads are not to be used as current carrying conductors. It is extremely important that the service technician reestablish all
 safety grounds prior to completion of service. Failure to do so will create a potential safety hazard.
- 4. Prior to returning the product to service, ensure that:
 - All electric connections are correct and secure.
 - All electrical leads are properly dressed and secured away from sharp edges, high-temperature components, and moving parts.
 - All uninsulated electrical terminals, connectors, heaters, etc. are adequately spaced away from all metal parts and panels.
 - All safety grounds (both internal and external) are correctly and securely reassembled.

INDUCTION GENERATOR HOUSING



Induction Generator Housing Legend:

BPL: AC Line 1 Input (Power) **BPN:** AC Line 2 Input (Power)

BP02: Chassis connection **BP03:** Chassis connection

BP06: Not Used **BP09:** Not Used

BP15: Thermal CutOut Input

BC1: ID Bridge

BC3: Pin 1: Vcc (5Vdc) Input

BC4: Pin 2: MACS Serial Communication

Pin 3: Ground

BC5: Not Used

B71: Inductor Temperature Sensor Input

B77: Heat Sink Temperature Sensor Input

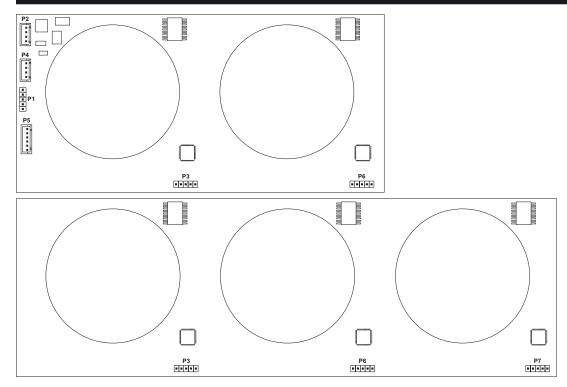
B81: Inductor Temperature Sensor Input High Power

BA81: Not Used (Programming Header) **BA91:** Not Used (Programming Header) **TAB1:** Power output (Black) High Power **TAB2:** Power output (Red) High Power

TAB101: Power output (Black) **TAB102:** Power output (Red)

IMPORTANT
DO NOT REMOVE
THIS BAG
OR DESTROY THE
CONTENTS
WIRING DIAGRAMS AND
SERVICE
INFORMATION ENCLOSED
REPLACE
CONTENTS IN BAG

ZONE CONTROL BOARD



Zone Control Board Legend:

P1	Not	Used

P3 Not Used (Programming header)

Not Used (Programming header) **P6**

P2 Pin 1 Vled(8Vdc) Input

& Pin 2 Ground

P4 Pin 3 Pin 4 SDA - I2C Serial Data

SCL - I2C Serial Clock

P5 Pin 1 Vcc (5Vdc) Output

> Pin 2 **ID1** Input

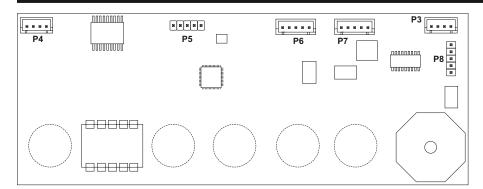
Vcc (5Vdc) Output Pin 3

ID2 Input Pin 4

Pin 5 **ID3 Input**

Pin 6 Vcc (5Vdc) Output

MAIN CONTROL BOARD



Main Control Board Legend:

P1 Not Used **P2** Not Used

Not Used (Programming header) **P5** Not Used (Programming header) **P8**

P3 Pin 1 Vled(8Vdc) Output

& Pin 2 Ground

P4 Pin 3 SCL - I2C Serial Clock Pin 4 SDA - I2C Serial Data

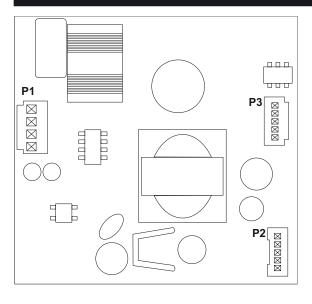
P6 Pin 1 Vled(8Vdc) Input

& Pin 2 Zero Cross Input

P7 Pin 3 Ground Pin 4 Vcc (5Vdc)

Pin 5 MACS Serial Communication

POWER SUPPLY BOARD



Power Supply Board Legend:

P1 Pin 1 Vac Input (120 - 240 Vac)

Pin 2 Not Used Pin 3 Not Used

Pin 4 Vac Input (120 - 240 Vac)

P2 Pin 1 Ground

& Pin 2 Vled(8Vdc) Output

P3 Pin 3 Not Used (13Vdc Output)

Pin 4 Not Used

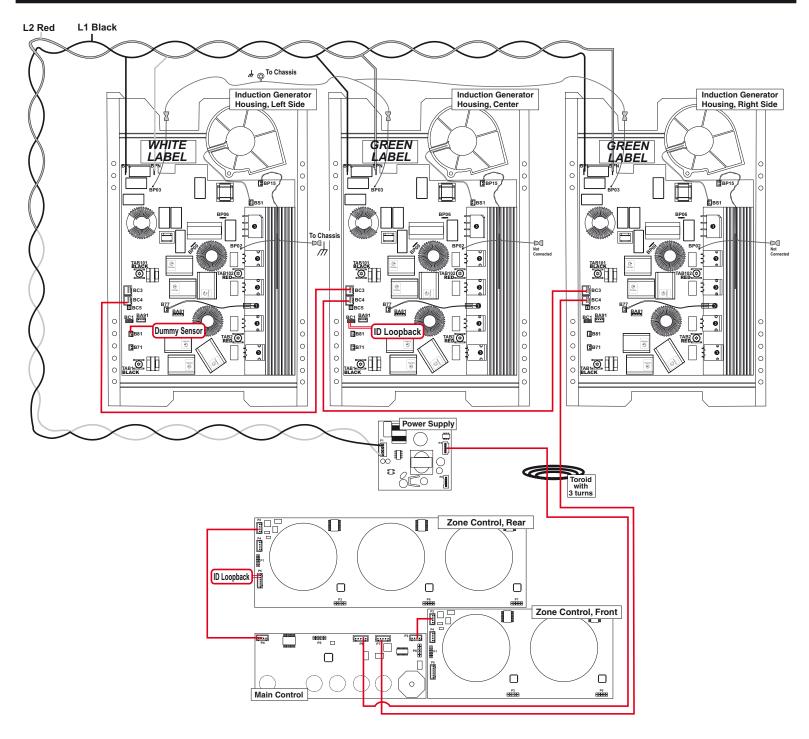
Pin 5 Zero Cross Output

POWER LEVEL EXPLANATION TABLES

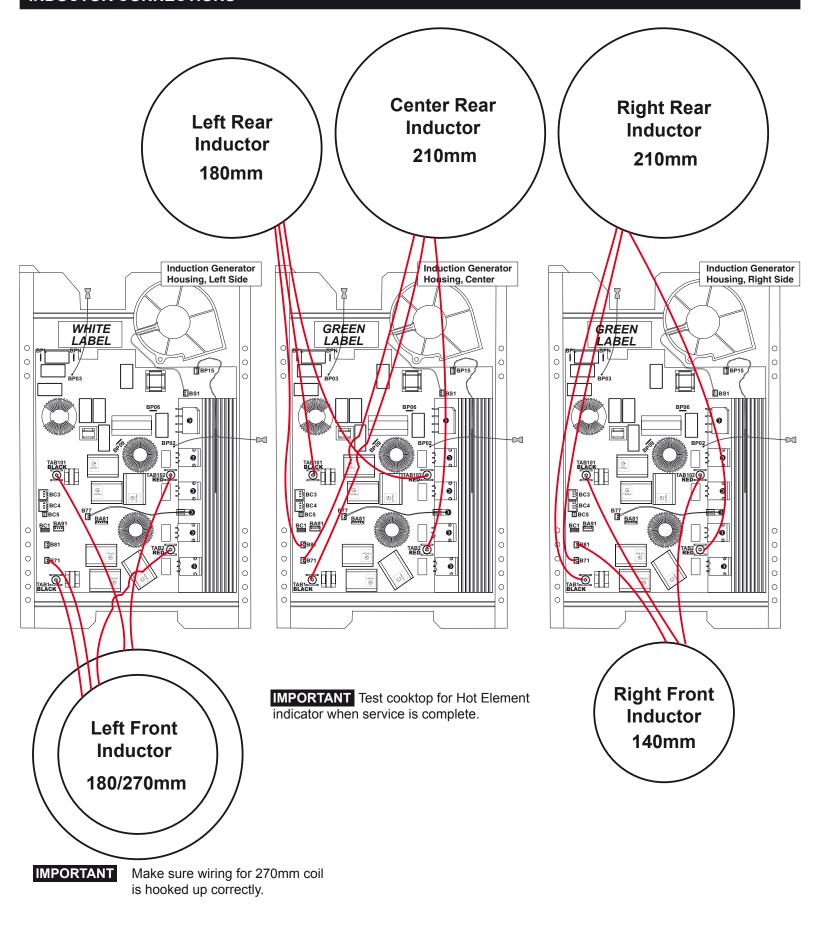
Power Levels	Relative Inductor
Fower Levels	Power (%)
Keep Warm	2.5
Lo	3
1.2	3.5
1.4	4
1.6	4.5
1.8	5
2	5.5
2.2	6
2.4	7
2.6	8
2.8	9
3	10.5
3.5	13
4	15.5
4.5	18
5	21
5.5	25
6	31
6.5	38
7	45
7.5	50
8	54
8.5	59
9	64
9.5	80
Hi	100
Power Boost	See Inductors
	Power Levels Table

Inductor Size Nominal Power level		Power	Boost Levels
140mm	1450W	2016W (139%)	10 minutes max
180mm	1875W	2606W (139%)	10 minutes max
210mm HP	2300W	2900W (126%)	14 minutes max
270mm	2380W	3000W (113%)	10 minutes max
270mm / 180mm	2650W / 1875W	3000W / 2606W	10 minutes max

INTERCONNECTIONS SYSTEM



IMPORTANT DO NOT ALLOW ANY WIRES TO TOUCH ANY BOARDS



ERROR CODES

UI Display	Error Description	Corrective Action
C11	Shorted keypad. The defective control will flashes the error	1- Verify there is no mechanical interference near the defective control (harnesses, metallic devices, etc).
	code in its display.	2- Replace the defective control.
		Base Line Railed.
C15	FMEA Error	RC circuit for Capacitive touch sensing.
010	T WE TENO	Continuity of both Cancel buttons traces.
		Replace Timer board or Housing containing Timer board.
		1- Check communication harness attached to the Left Induction Generator
	l acc of communication with Laft	Housing. Replace if defective.
C20	Loss of communication with Left Generator Housing Assembly	2- Verify ID loopback connector is present on the left side Induction Generator Housing (30" only otherwise no loopback connector). Replace if defective.
020	Induction. (MACS)	3- Verify there is no ID loopback connector present on the right side Induction
	,	Generator Housing .
		4- Replace left side Induction Generator Housing.
		1- Check communication harness attached to the Right Induction Generator
		Housing. Replace if defective.
C21	Loss of communication with Right Generator Housing	2- Verify ID loopback connector is present on the left side Induction Generator Housing (30") or center Induction Genearator Housing (36"). Replace if defective.
621	Assembly Induction. (MACS)	3- Verify there is no ID loopback connector present on the right side Induction
	, , , , , , , , , , , , , , , , , , , ,	Generator Housing.
		4- Replace right side Induction Generator Housing.
		1- Check communication harness attached to the Center Induction Generator
		Housing. Replace if defective.
C22	Loss of communication with Center Generator Housing	2- Verify ID loopback connector is present on the center Induction Generator Housing. Replace if defective.
022	Assembly Induction. (MACS)	3- Verify there is no ID loopback connector present on the right and left side
	,	Induction Generator Housings.
		4- Replace center Induction Generator Housing.
		1- Check communication harnesses between Main Control and Induction
000	Loss of communication with	Generator Housings (3 harnesses for 30" and 4 for 36"). Replace if defective.
C23	2 or more Housing Assembly Induction. (MACS)	2- Replace Main Control3- Replace each Generator Housing in succession starting from the right most and
	madelion. (W. 188)	working left.
C24	UART communication has been	1- Replace Main Control
024	lost.	·
		1- Verify ID loopback connector is present on the rear 2 zones control. Replace if
C25	Loss of communication with Rear Zones Control.(I2C lost/	defective. 2- Verify communication harness between front 2 zones Control P2 and rear 2
625	error)	zones control P2. Replace if defective.
		3- Replace rear 2 zones Control.
	Loop of communication with	1- Verify ID loopback connector is present on the rear 2 zones control. Replace if
C26	Loss of communication with Front Zones Control. (I2C lost/	defective.
	error)	"2- Verify ID loopback connector is not present on the
	,	front 2 zones control."
C2A	All communication has been lost with I2C in all zones.	Check wiring between main control and zones Replace Main Control
		1- Check wiring between main control and zones and wiring between main control
C2C	All communication has been lost	and generators.
	between I2C and Macs.	2- Replace Main Control

ERROR CODES

UI Display	Error Description	Corrective Action
	AC imput valte as too bight flour	1- Verify AC Input voltage at cooktop input (customer wiring).
C30/35	AC input voltage too high/low, left side Induction Generator Housing	2- Verify AC voltage between left side housing BPL and PBN connectors. Should measure 240Vac +- 24Vac.
		3- Replace left side Induction Generator Housing
C31, C32, C34, C36, C37	Internal generator error, left side Housing Assembly Induction	1- Replace left side Induction Generator Housing
C33	Cooling FAN Blocked, left side Housing Assembly Induction.	Verify there is no mechanical interference for the fan to operate on the left side Induction Generator Housing. Replace left side Induction Generator Housing
C38	FAN Not Connected, left side Housing Assembly Induction	1- Verify fan is correctly connected at BS1 of left side Housing Assembly Induction 2- Replace left side Induction Generator Housing
C40	IGBT, Heat sink sensor defect, left side Induction Generator Housing	1- Verify the heat sink sensor is installed properly and not damaged in the left side Induction Generator Housing (measured approx 100K ohms at room temperature). 2- Replace left side Housing Assembly
C41- C42-C43	Induction sensor / Pot detection defect, left side Induction Generator Housing	1- Verify the inductors are well connected and not damaged on the left side Induction Generator Housing (measure approx 0 ohm at room temperature). 2- Replace left side Housing Assembly
	Board Temperature Alarm,	1- Verify all airway are free. There should be some hot air going out at the center front of the cooktop edge.
C44-C45 left side Induction Generator Housing.	2- Ensure customer do not use the cooktop with dry pan at high temperature levels.	
		3- Replace left side Induction Generator Housing
	Power Fail Detect, left side	1- Check AC input supply
C46	Induction Generator Housing.	2- Check cooktop wiring
	•	3- Replace left side Induction Generator Housing
C51 C52	Element temperature sensor breaks (Left Front Zone) Element temperature sensor breaks (Left Rear Zone) Element temperature sensor breaks (Right Front Zone)	1- Verify, inductor temperature sensor is connected properly at B71 or B81 as per wiring diagram.
C55		2- Verify the inductor temperature sensor is installed properly and not damaged in the associate Induction Generator Housing (measured approx 100K ohms at room temperature)
C56 C57	Element temperature sensor breaks (Right Rear Zone) Element temperature sensor	
C58	breaks (Center Front Zone) Element temperature sensor breaks (Center Rear Zone)	3- Replace associate induction Generator Housing
C62 Loss of Zero Cross at timer input	1- Verify harness between switching power supply and Main Control. Replace harness if defective or damaged. 2- Using a DC voltmeter, verify power supply signal at P3, pins 1-5. Should	
	measure 2.8Vdc +- 0.5Vdc. Replace Power Supply if defective. 3- Replace Main Timer Control.	
C63	Left Front Zone element	1- Ensure customer do not use the cooktop with dry pan at high temperature
C64	temperature sensor too hot. Left Rear Zone element	levels. 2- Verify the inductor temperature sensor is installed properly and not damaged in
C65	temperature sensor too hot. Right Front Zone element temperature sensor too hot.	the associate Induction Generator Housing (measured approx 100K ohms at room temperature)
C66	Right Rear Zone element	
C67	temperature sensor too hot. Center Front Zone element temperature sensor too hot.	3- Replace associate induction Generator Housing
C68	Center Rear Zone element temperature sensor too hot.	,

ERROR CODES

UI Display	Error Description	Corrective Action
	AC input voltage too high/low,	1- Verify AC Input voltage at cooktop input (customer wiring).
	right side Induction Generator	2- Verify AC voltage between right side housing BPL and PBN connectors. Should
	Housing	measure 240Vac +- 24Vac.
074 070	latarral variantes and district	3- Replace right side Induction Generator Housing
C71, C72, C74, C76,	Internal generator error, right side Induction Generator	1- Replace right side Induction Generator Housing
C77	Housing	1- Replace light side induction Generator Flousing
011	Cooling FAN Blocked, right side	1- Verify there is no mechanical interference for the fan to operate on the right side
C73	right side Induction Generator Housing	Induction Generator Housing.
		2- Replace right side Induction Generator Housing
	FAN Not Connected, right side Induction Generator Housing	1- Verify fan is correctly connected at BS1 of right side Housing Assembly
C78		Induction
		2- Replace right side Induction Generator Housing
	IGBT, Heat sink sensor defect,	1- Verify the heat sink sensor is installed properly and not damaged in the
C80	left side Induction Generator	right side Induction Generator Housing (measured approx 100K ohms at room
	Housing	temperature).
		2- Replace right side Housing Assembly
	Board Temperature Alarm,	1- Verify all airway are free. There should be some hot air going out at the center front of the cooktop edge.
C84-C85	right side Induction Generator	2- Ensure customer do not use the cooktop with dry pan at high temperature
	Housing.	levels.
		3- Replace right side Induction Generator Housing
	Power Fail Detect, right side	1- Check AC input supply
C86	Induction Generator Housing.	2- Check cooktop wiring
	3	3- Replace right side Induction Generator Housing
	AC input voltage too high/low,	1- Verify AC Input voltage at cooktop input (customer wiring).
C90/95	left side Induction Generator	2- Verify AC voltage between center housing BPL and PBN connectors. Should measure 240Vac +- 24Vac.
	Housing	
C91, C92,		3- Replace center Induction Generator Housing
C91, C92,	Internal generator error, center	1- Replace center Induction Generator Housing
C97	Housing Assembly Induction	The place series in accion series receiving
	Casling FAN Disaked contex	1- Verify there is no mechanical interference for the fan to operate on the center
C93	Cooling FAN Blocked, center	Induction Generator Housing.
	Housing Assembly Induction.	2- Replace center Induction Generator Housing
	FAN Not Connected, center	1- Verify fan is correctly connected at BS1 of the center Housing Assembly
C98	Housing Assembly Induction	Induction
		2- Replace center Induction Generator Housing
CAO	IGBT, Heat sink sensor defect,	1- Verify the heat sink sensor is installed properly and not damaged in the center
CA0	center Induction Generator Housing	Induction Generator Housing (measured approx 100K ohms at room temperature). 2- Replace center Housing Assembly
CA1-		1- Verify the inductors are connected properly and not damaged on the center
CA1-	Induction sensor / Pot detection defect, center Induction	Induction Generator Housing (measure approx 0 ohm at room temperature).
CA3	Generator Housing	2- Replace center Housing Assembly
		1- Verify all airway are free. There should be some hot air going out at the center
64.	Board Temperature Alarm,	front of the cooktop edge.
CA4-	center Induction Generator Housing.	2- Ensure customer does not use the cooktop with dry pan at high temperature
		levels.
		3- Replace center Induction Generator Housing
	Power Fail Detect, center	1- Check AC input supply
CA6	Induction Generator Housing.	2- Check cooktop wiring
	madelion deficiator riodaling.	3- Replace center Induction Generator Housing