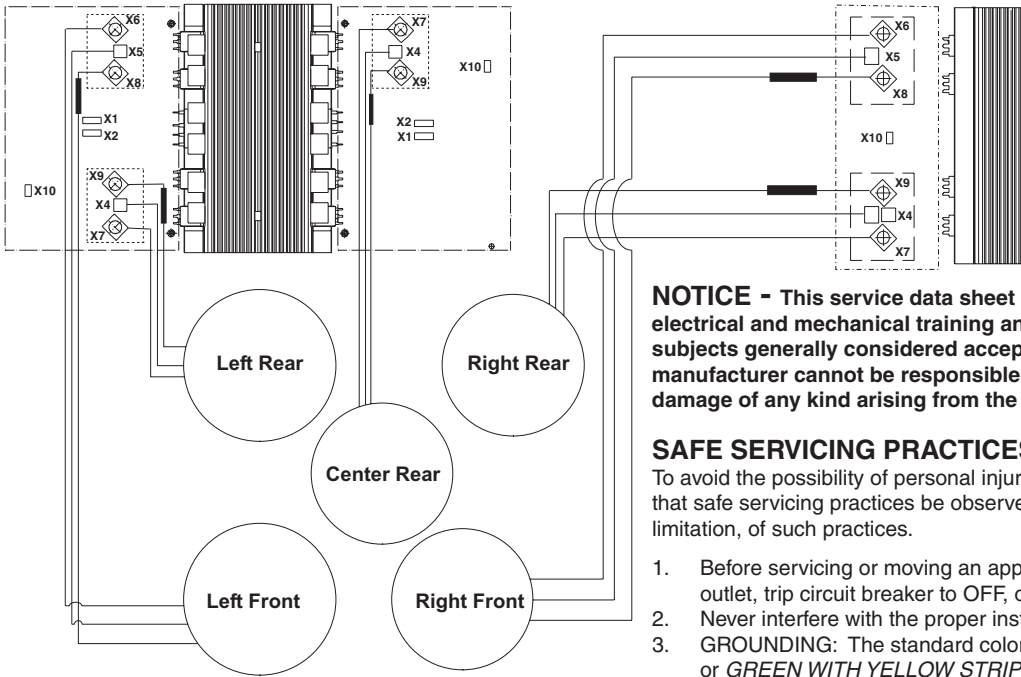


SERVICE DATA SHEET

36" Induction Cooktop with Ceramic Glass



BASIC COOKING ZONE WIRING

NOTE: Connect shortest black inductor wire (or identified by a red sleeve) to X8 or X9 connectors.

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.
3. **GROUNDING:** The standard color coding for safety ground wires is *GREEN* or *GREEN WITH YELLOW STRIPES*. Ground leads are not to be used as

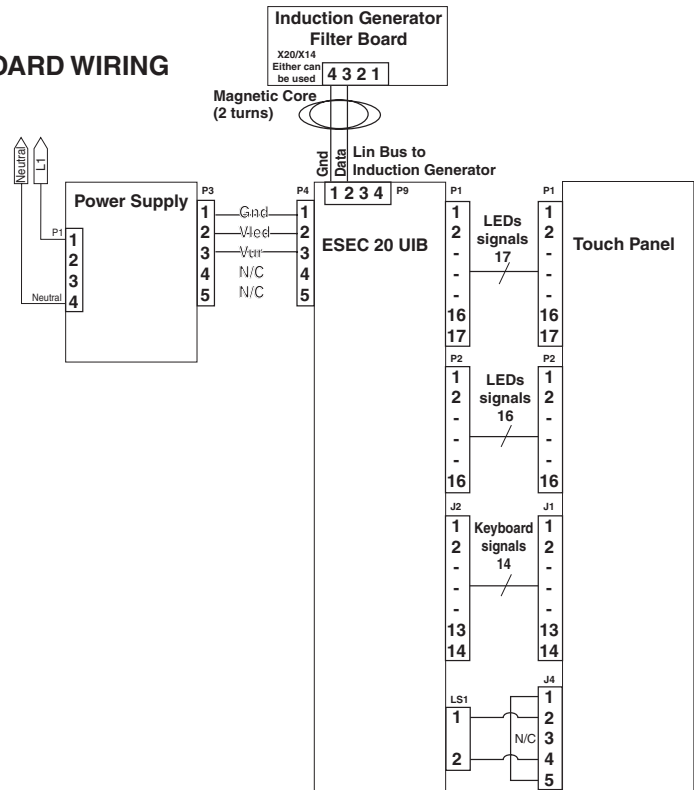
current carrying conductors. **It is extremely important that the service technician reestablish all safety grounds prior to completion of service. Failure to do so will create a potential safety hazard.**

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.

POWER LEVEL EXPLANATION TABLE

Displayed Power Level	LH	Lo	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.5
Power Level %	3.0	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0	8.0	9.0	10.5	13.0
Displayed Power Level	4.0	4.5	5.0	5.5	6.0	6.5	7.0	8.0	9.0	Hi	PB		
Power Level %	15.5	18.0	21.0	25.0	31.0	38.0	45.0	54.0	64.0	100	130-153		

TOUCH CONTROL BOARD WIRING



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

ELECTRONIC ERROR (FAULT) CODE DESCRIPTIONS

Error Code - Possible Cause or Condition	Suggested Corrective Action
11- Jammed key.	1) Verify if there is no mechanical interference in the <i>Touch Panel</i> area (utensil, wire, etc...). Disconnect power, wait 30 seconds and reapply power. If fault returns: 2) Verify harnesses between <i>ESEC-UIB</i> and the <i>Touch Panel</i> . 3) Replace <i>ESEC-UIB</i> . 4) Replace the <i>Touch Panel</i> .
14 - <i>Touch Panel</i> Tail missing	1) Disconnect power, wait 30 seconds and reapply power. If fault returns: 2) Verify harnesses between <i>ESEC-UIB</i> and the <i>Touch Panel</i> . 3) Replace <i>ESEC-UIB</i> . 4) Replace the <i>Touch Panel</i> .
15 - <i>ESEC-UIB</i> Self test fail.	1) Check harness going to <i>ESEC-UIB</i> connection. 2) Replace <i>ESEC-UIB</i> .
21- Lin (Local Interconnect Network) error, no communications, shorted bus.	1) Verify AC input at the <i>Small Filter Circuit Board</i> , connectors X50 & X52 is 240Vac $\pm 10\%$. 2) Verify fuse at the <i>Small Filter Circuit Board</i> is not open. 3) Verify Lin Bus harness going to <i>Small Filter Circuit Board</i> , connector X67 4) Verify the Lin Bus communication harness at <i>ESEC-UIB</i> , connector P9 is well connected and not damaged. 5) Replace <i>ESEC-UIB</i> . 6) Replace <i>Large Filter Circuit Board</i> . 7) Replace <i>Small Filter Circuit Board</i> .
30/70- AC input voltage too high, <i>Induction Housing Assembly</i> 35/75- AC input voltage too low, <i>Induction Housing Assembly</i>	1) Measure the house voltage at the main incoming connections on the <i>Large Filter Circuit Board</i> , between terminals X1,X2 and X4,X5 the voltage should be 240 volts AC $\pm 10\%$. 2) Inspect electrical jumpers from X1 to X2 and X4 to X5. 3) Replace the <i>Large Filter Circuit Board</i> .
31- Internal generator error, sync <i>Induction Housing Assembly</i> / Left side cooking zones.	1) Verify cables & connections on the <i>Left Side Generator Circuit Board</i> . 2) Replace the <i>Left Side Generator Circuit Board</i> .
32/33- Power Supply defect, <i>Induction Housing Assembly</i> / Left side cooking zones	1) Check all wiring connections between <i>Large Filter Circuit Board</i> and <i>Left Side Generator Circuit Board</i> . If electrical connections are correct: 2) Replace <i>Large Filter Circuit Board</i> . 3) Replace <i>Left Side Generator Circuit Board</i> .
34/36- Internal generator communication error, communication, <i>Induction Housing Assembly</i> / Left side cooking zones.	1) Check all wiring connections between <i>Large Filter Circuit Board</i> and <i>Left Side Generator Circuit Board</i> (connections X12, X10, X20, X67). If electrical connections are correct: 2) Replace the <i>Left Side Generator Circuit Board</i> . 3) Replace the <i>Large Filter Circuit Board</i> .
37- Heat sink temperature sensor break, <i>Induction Housing Assembly</i> / Left side cooking zones	1) Replace <i>Left Side Generator Circuit Board</i> .
39- Configuration mismatch between the <i>ESEC-UIB</i> and the <i>Induction Housing Assembly</i> (occurs when one of the 2 induction housing is replaced).	1) Disconnect power, wait 30 seconds and reapply power. If fault returns : 2) Make sure the required <i>ESEC-UIB</i> is installed into the cooktop. 3) Simultaneously press and hold the "Warm" key and the right front "ON" key until a beep is heard, then release the right "ON" key and press the left front "ON" key until a beep is heard. The control will complete a configuration process. If this does not resolve the error code: 4) Replace the <i>Large Filter Circuit Board</i> . 5) Replace the <i>Small Filter Circuit Board</i> .
51- Inductor temperature sensor break (LF). 52- Inductor temperature sensor break (LR). 53- Inductor temperature sensor break (Center). 54- Inductor temperature sensor break (RR). 55- Inductor temperature sensor break (RF).	1) Verify inductor temperature sensor is correctly connect to the good <i>Induction Housing Assembly</i> connector (refer to wiring diagram). 2) Replace inductor if temperature sensor resistor value is not approximately 1000 ohms (blue wires) at room temperature. 3) Replace associated <i>Generator Circuit Board</i> .
61- LF Inductor temperature sensor too hot. 62- LR Inductor temperature sensor too hot. 63- Center Inductor temperature sensor too hot. 64- RR Inductor temperature sensor too hot. 65- RF Inductor temperature sensor too hot.	1) Verify cooktop ventilation is correct (airway & fan). 2) Verify Inductor white isolation material is complete and cover the whole Inductor. 3) Verify Inductor temperature sensor is correctly connected to the <i>Induction Housing Assembly</i> . 4) Replace Inductor if temperature sensor resistor value is not approximately 1000 ohms (blue wires) at room temperature. 5) Replace associated <i>Generator Circuit Board</i> .
71- Internal generator error. Sync, <i>Induction Housing Assembly</i> / Center cooking zone.	1) Verify all electrical connections on the <i>Center Generator Circuit Board</i> . 2) Replace <i>Center Generator Circuit Board</i> .
72/73- Power Supply defect. <i>Induction Housing Assembly</i> / Center cooking zone.	1) Check all wiring connections between <i>Large Filter Circuit Board</i> and <i>Center Generator Circuit Board</i> . If electrical connections are correct: 2) Replace the <i>Large Filter Circuit Board</i> . 3) Replace the <i>Center Generator Circuit Board</i> .
74/76- Internal generator communication error, <i>Induction Housing Assembly</i> / Center cooking zone.	1) Check all wiring connections between <i>Large Filter Circuit Board</i> and <i>Center Generator Circuit Board</i> (connections X10, X13, X20, X67). If electrical connections are correct: 2) Replace the <i>Center Generator Circuit Board</i> . 3) Replace the <i>Large Filter Circuit Board</i> .
77- Heat sink temperature sensor break, <i>Induction Housing Assembly</i> / Center cooking zone.	1) Replace the <i>Center Generator Circuit Board</i> .

ELECTRONIC ERROR (FAULT) CODE DESCRIPTIONS (continued)

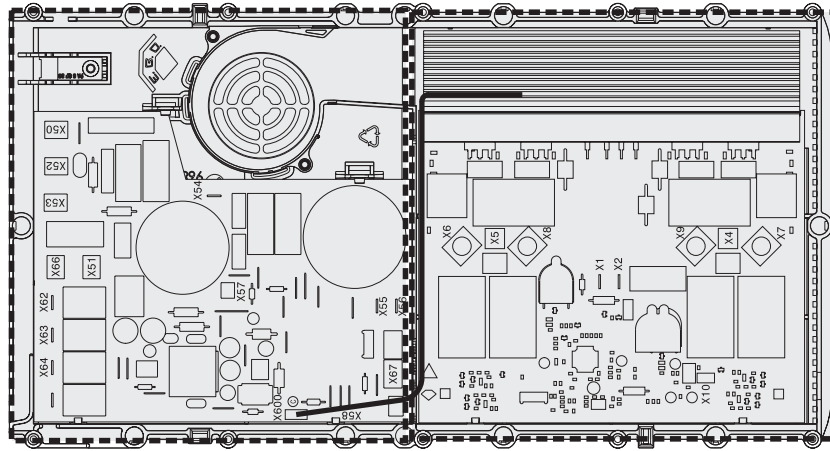
Error Code - Possible Cause or Condition	Suggested Corrective Action
90- AC input voltage too high at the <i>Small Induction Housing Assembly</i> .	1) Verify AC input voltage at the <i>Small Filter Circuit Board</i> connectors X50 & X52 is 240Vac \pm 10%. 2) Verify fuse at the <i>Small Filter Circuit Board</i> is well installed and not damaged 3) Verify AC main input cables, screws and jumpers are well installed and not damaged. 4) Replace <i>Small Filter Circuit Board</i> .
91- Internal generator error. Sync <i>Induction Housing Assembly</i> / Right side cooking zones.	1) Verify cables & connections on <i>Right Side Generator Circuit Board</i> . 2) Replace the <i>Right Side Generator Circuit Board</i> .
92/93- Power Supply defect, <i>Induction Housing Assembly</i> / Right side cooking zones	1) Test all cables & connections on <i>Small Filter Circuit Board</i> . 2) Replace the <i>Small Filter Circuit Board</i> . 3) Replace <i>Right Side Generator Circuit Board</i> .
94- Internal generator error, communication, <i>Induction Housing Assembly</i> / Right side cooking zones.	1) Verify cable between <i>Small Filter Circuit Board</i> , connector X58 and <i>Right Side Generator Circuit Board</i> , connector X10. 2) Verify the thermal limiter resistor value (installed in the heat sink) is approximately 0 ohm in the <i>Housing Assembly Induction</i> , small. 3) Replace <i>Small Filter Circuit Board</i> . 4) Replace <i>Right Side Generator Circuit Board</i> .
95- AC input voltage too low, <i>Induction Housing Assembly</i> / Right side cooking zones.	1) Verify AC input voltage at the cooktop input cable connections is 240Vac \pm 10%. 2) Verify AC main input cables, replace if damaged or defective. 3) Verify the fuse resistance is approximately 0 ohm in the <i>Small Filter Circuit Board</i> . 4) Verify AC voltage between <i>Small Filter Circuit Board</i> , connectors X50 & X52 is 240VAC \pm 10%. If not present, check wires harness at X50 & X52. 5) Replace the <i>Small Filter Circuit Board</i> .
96- Communication error, <i>Induction Housing Assembly</i> / Right side cooking zones.	1) Verify all communication cables between <i>ESEC-UIB P9</i> and <i>Large Filter Circuit Board</i> , connector X14. 2) Replace <i>Right Side Generator Circuit Board</i> . 3) Replace the <i>Small Filter Circuit Board</i> .
97- Heat sink temperature sensor break, <i>Induction Housing Assembly</i> / Right side cooking zones.	1) Replace <i>Right Side Generator Circuit Board</i> .

ADDITIONAL ERROR (FAULT) CONDITIONS

SYMPTOM OR FAILURE	CONTROL DISPLAY	POSSIBLE CAUSE OR CONDITION	SUGGESTED CORRECTIVE ACTION
Pan does not heat up.	Normal operation	Pan too small for proper pan detection and only works with low power.	Use larger pan or this pan on a smaller cooking zone. Refer to owners guide for proper pan selection.
	Flashing Power Level Display and pan does not heat.	Pan not detected.	Check whether the pots or pans are suitable for induction. Refer to owners guide for proper pan selection.
		Induction Coil not correctly connected or Induction Coil open.	Check the coil wire terminal connections. Ensure that they are properly connected and tightened. Test continuity of coil (should be less than 1 ohm).
		Distance between coil and glass ceramic too large.	Check whether the coil is properly positioned and touching the glass cooktop surface.
Individual buttons cannot be used or cannot always be used.	None	1. Test cables & connections. 2. <i>Touch Panel</i> defective. 3. <i>ESEC-UIB</i> defective.	1) Follow instructions for proper use of touch controls. 2) Verify harness going between <i>ESEC-UIB J2</i> and <i>Touch Panel J1</i> connectors (14 pins). Replace if defective or damaged. 3) Verify there is no mechanical interference close to the <i>Touch Panel</i> (wires, utensils, etc...) 4) Replace <i>Touch Panel</i> 5) Replace <i>ESEC-UIB</i> .
Cooking power too low or shuts down prematurely.	None	Fluids spilled or object lying on <i>Touch Panel</i> keypads.	Clean up spills or remove objects. Restart cooktop in normal manner.
	Normal operation	Ventilation slots obstructed.	Clean up spills or remove objects. Restart cooktop in normal manner.
		Unsuitable pots (bottom bent).	Follow owners guide for proper pan selection.
		Distance between coil and glass ceramic too large.	Check whether the glass ceramic was pushed down when being screwed in position and the coil has been correctly positioned.
		Fan does not start.	1) When setting a cooking phase >0, the fan runs at a slow speed. If not, check the fan for foreign objects, remove these where appropriate. 2) If necessary, replace fan. 3) Replace the <i>Filter Circuit Board</i> .
No beep heard when unit is powered up.	All displays show "8.8"	Defective harness.	Check if the 2 wire harness is properly connected from LS1 on <i>ESEC-UIB</i> and J4 on <i>Touch Panel</i> .

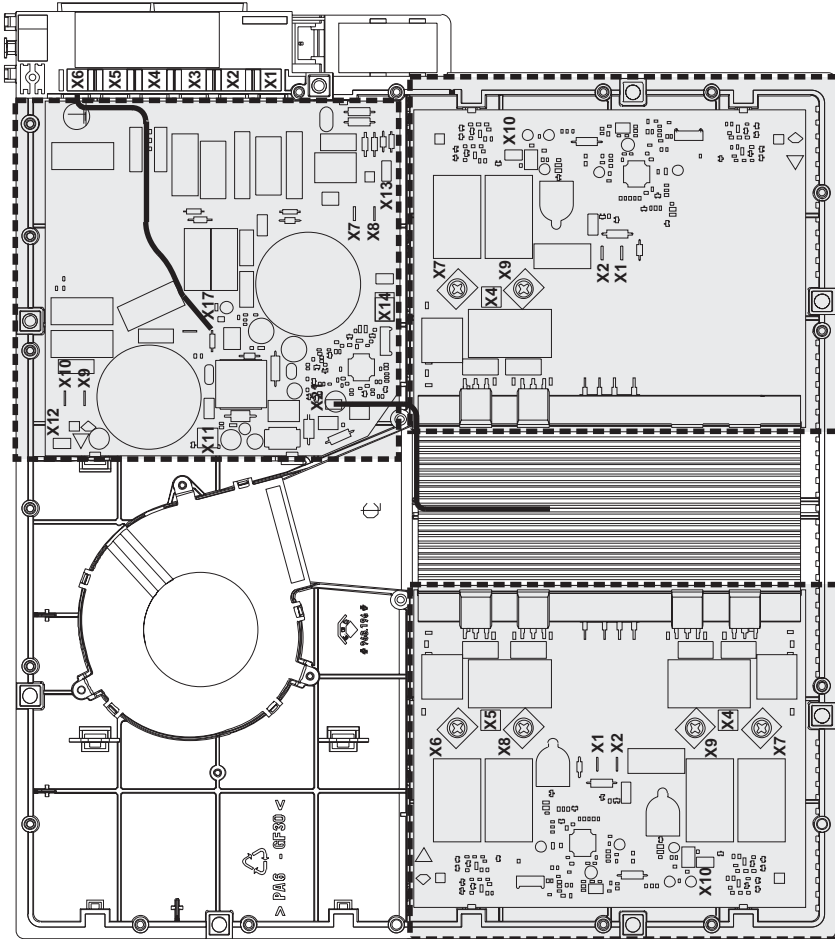
SYMPTOM OR FAILURE	CONTROL DISPLAY	POSSIBLE CAUSE OR CONDITION	SUGGESTED CORRECTIVE ACTION
Steady "HE" in display when cooking zone is cold and switched off.	"HE"	Temperature sensor defect.	1) Test coil RTD approx. 1K ohms at room temperature. Replace coil if resistance is not correct. 2) Replace generator circuit board.
Cooktop does not initialize/operate.	Blank No Display No Beep	Cooktop not powered	- Verify cooktop installation.
		Defective ESEC20 power supply.	1) Measure voltage at the power supply input P1 pins 1&4 should be 120VAC. Verify harness if voltage is not present. 2) Measure voltage at power supply output P3 pins 1&2 should app. 8VDC. Replace ESEC power supply if voltage is not present. 3) Measure voltage at power supply output P3 pins 1&3 should be app. 16VDC. Replace ESEC power supply if voltage is not present.
		Defective ESEC-UIB.	Replace ESEC-UIB.

Small Filter
Circuit Board



Right Side Generator
Circuit Board

Large Filter
Circuit Board



Center Generator
Circuit Board

Left Side Generator
Circuit Board