BIASI RIVA ADVANCE SERVICE

E01 +	**Lack of Burner Ignition:** • Check incoming gas pressure • Check polarity of voltage supply to boiler	• Verify 3.5 - 6 micro amps dc amperage on flame sensor • Verify the function of the spark generator
E02 +	**Safety Thermostat Intervention:** • Remove wires from safety thermostat and check continuity	• If no continuity, reset switch and check again • If still no continuity replace switch
E03 +	**General Lockout:** • Power the boiler off for ten seconds and turn the boiler back on	• If there is still a lock, enter the programming menu of the boiler • On parameter 8, reset boiler to value of 7
E04 +	**Faulty Primary Circuit (absence of flow):** • Verify if the circulator is spinning • If it is not, first check voltage to the circulator. • If there is voltage, manually spin the impeller with a	flat head screw driver • If it still will not spin, replace the circulator • If the circulator is spinning, make sure the central heating flow restrictor is installed in the outlet of the boiler
E05 +	**Faulty Fan Control System:** • Check electrical connections to fan and main PCB board and reset boiler	• If lock out remains, replace the combustion fan
E06 +	**Faulty C.H. temperature probe:** • Check the electrical connection to the c.h. temp probe • Check resistance on the sensor and compare with chart on the right	• If value is not consistent with the chart, 0 ohms, or an open circuit, replace the sensor
E07 +	**Faulty D.H.W temperature probe:** • Check the electrical connection to the d.h.w. temp probe • Check resistance on the sensor and compare with chart	on the right • If value is not consistent with the chart, 0 ohms, or an open circuit, replace the sensor
E08 +	**Faulty outdoor temperature probe:** • Check the electrical connection to the outdoor temp probe • Check resistance on the sensor and compare with chart	on the right • If value is not consistent with the chart, 0 ohms, or an open circuit, replace the sensor
E09 +	**Faulty flue temperature probe:** • Check the electrical connection to the flue temp probe • Check resistance on the sensor and compare with chart on the right	• If value is not consistent with the chart, 0 ohms, or an open circuit, replace the sensor
E10 +	**Flue probe intervention lockout:** • Reset the boiler and check that the flue gas temperature does not go above 240 degrees Fahrenheit • If it does, check that the proper amount of gas flow is present by performing a combustion test and verifying the combustion numbers against the manual.	• If it still goes above 240, perform a complete cleaning on the primary heat exchanger. It may be necessary to perform a chemical flush on the water side of the heat exchanger. • If it does not go above 240 and boiler still locks out replace the sensor
E11 +	**Flame detection error:** • Check the flow of gas stops when burner shuts off • Check there is no build up or residue on burner	

Temperature Sensor Resistance Chart	TEMP	OHMS	TEMP	OHMS	TEMP	OHMS	TEMP	OHMS	TEMP	OHMS	TEMP	OHMS
	69	12000	95	7000	122	4200	149	2600	176	1700	203	1100
	77	10000	104	5800	131	3500	158	2250	185	1500	212	1000
	86	8250	113	4900	140	3000	167	1900	194	1300		

RIVA ADVANCE

BIASI

ERROR CODES

LEGEND

	The symbol indicates that the boiler can be directly reactivated by the user, by pressing the reset button
	The symbol indicates that the fault requires intervention on behalf of specialised technical assistance
	All symbols represented with lines that surround them, indicate that the **symbol is flashing**

SIGNAL DISPLAYED BY THE LCD

LCD	FUNCTION
E01 +	Lack of burner ignition on safety lockout
E02 +	Safety thermostat intervention lockout
E03 +	General lockout
E04 +	Faulty primary circuit (no water or **absence of flow)**
E05 +	Faulty fan control system
E06 +	Faulty c.h. temp. probe NTC
E07 +	Faulty d.h.w. temp. probe NTC
E08 +	Faulty external temp. probe NTC
E09 +	**Faulty flue temp. probe NTC** (interruption)
E10 +	Flue probe intervention lockout
E11 +	Flame detection error
L01	Primary circuit temp. limit during D.h.w. operation
	The flashing symbol indicates the communication between LCD and the card
	Boiler in winter mode (C.h.+ D.h.w.)
	Boiler in summer mode (D.h.w.)
	Boiler in winter standby Hot water + heating mode **(symbol flashing)**
	Boiler in summer standby Hot water mode **(symbol flashing)**
OFF	Boiler powered and selector OFF **(symbol flashing)**
	Remote connected
	External temperature control probe connected