

12. Diagnostic messages

MALFUN CODE		POSSIBLE CAUSES	VERIFICATIONS and SOLUTIONS
020	USB power-supply malfunction.	USB-port current- consumption too high.	 Check the status of the USB port and its connections in order to identify possible causes of excessive consumption (e.g. short-circuit). Once the cause of the malfunction is fixed the USB port should restore itself automatically and return to normal operation. If the problem persists, replace the CPU board.
(x)21*	Group boiler pressure sensor x out of range (x = 1, 2, 3, 4) Note: Group 1 is to the far left.	Sensor failure Card failure.	•Check cabling •Replace the sensor •Replace the card.
023	AC 24V power supply malfunction.	•The glass fuse on the CPU board is likely broken.	Replace the fuse.
024	Clock malfunction.	Contacts oxidised.Dead battery.Clock blocked.	•Clean the contacts on the battery. • Measure the voltage of the battery (3 V DC) and, if necessary, replace it. If the battery is OK try, with the machine turned off, to remove it from the board and wait 2-3 minutes. Then reinsert the battery and check that the clock is working properly.
025*	No power: group, EV, milk pump	 Voltage drop in the power supply 	Check if CPU card has power.Check power supply unit (protection)Check cabling
029 *	LCD display not connected (applies only to machines other than Emblem R and M100).	Break in cabling. Display fault.	•Check cabling.
030	Slave micro processor malfunction.		•If the problem persists, replace the Newton board.
041*	Milk pump motor overcurrent	 Consequence of applied force Rotor blocked Pump motor faulty 	Check wiring. Check whether the circuit or pump is clogged. Replace the pump.
051	Temperature sensor signal out of range.	Sensor failure Card failure.	Check cabling Replace the sensor Replace the card.
(x)51*	Group boiler temperature sensor x out of range (x = 1, 2, 3, 4) Note: Group 1 is to the far left.	Thermocuple disconnected Sensor failure.	Check cabling Replace the sensor.
052	Boiler heating timeout - 45 minutes.	The safety thermocouple has been triggered The resistance is interrupted (cabling defect) The Triac card is malfunctioning.	Check if the safety thermostat has been triggered, and reset it if necessary Check if there are interruptions or detached fastons on the cabling Check that the boiler resistance is not interrupted and replace it if necessary Replace the Triac card.



MALFUN CODE	DESCRIPTION	POSSIBLE CAUSES	VERIFICATIONS and SOLUTIONS
(x)52*	Group x boiler heating timeout - 20 minutes (x = 1, 2, 3, 4) Note: Group 1 is to the far left.	 The group x boiler safety thermostat has been triggered The resistance is interrupted (cabling defect). Triac board fault. 	Check if the safety thermostat of the group x boiler has been triggered, and reset it if necessary Check if there are interruptions or detached fastons on the cabling Check that the group x boiler resistance is not interrupted and replace it if necessary Replace Triac board.
(x) 53*	Steam thermocouple out of range. DX > 053; SX > 153	Thermocuple disconnected Wrong configuration during standard data insertion.	Enter in the programming mode and insert the correct standard data Check connections. Replace the steam temperature probe.
058	Boiler overpressure alarm.	•Resistanc alwayspowered. •Temperature sensor out of range.	•Check cabling •Replace the sensor.
059	Boiler: Refill timeout - 15 minutes.	No water Refill EV failure Wiring interrupted Card failure.	Check water is supplied from the main line. Replace the refill EV. Check cabling. Replace the card.
060	Boiler-level signal errors.	Electrical fault. Leakage to earth.	Check wiring. Check, by activating the components individually on the manual control panel, that the level signal does not show any anomalies (%).
062	Coffees dispensed for MM1 with flow under the limit (3 consecutive coffees dispensed).	 coffee filter blocked coffee type changed qref calibration wrong grind too fine, excessive dose ground. 	 wash the group clean/replace the coffee filter use a coarser grind calibrate the machine correctly on the basis of the coffee/recipe.
063	Coffees dispensed referred to MM1 with flow over the limit (3 consecutive coffees dispensed).	 coffee type changed qref calibration wrong grinding too coarse grinder/dispenser blocked, insufficient dose of ground coffee. 	 check that there are no external elements in the grinders check that the measure grinder is working (pick-up current and fuses) use a finer grind calibrate the machine correctly on the basis of the coffee/recipe.
064	Coffees dispensed referred to MM2 with flow under the limit (3 consecutive coffees dispensed).	 coffee filter blocked coffee type changed qref calibration wrong grind too fine, excessive dose ground. 	 wash the group clean/replace the coffee filter use a coarser grind calibrate the machine correctly on the basis of the coffee/recipe.
065	Coffees dispensed referred to MM2 with flow over the limit (3 consecutive coffees dispensed).	coffee type changed qref calibration wrong grinding too coarse grinder/dispenser blocked, insufficient dose of ground coffee.	 check that there are no external elements in the grinders check that the measure grinder is working (pick-up current and fuses) use a finer grind calibrate the machine correctly on the basis of the coffee/recipe.



MALFUN CODE	DESCRIPTION	POSSIBLE CAUSES	VERIFICATIONS and SOLUTIONS
(x)66	Error in the group that is dispensing. (x = 1, 2, 3, 4) Note: Group 1 is to the far left.		Check water is supplied from the main line. Check there are no fitting obstructions or leakage. Check flowmeter electrical connections. Replace the broken flowmeter. Replace the broken board.
(x)70	Measure-grinder adjustment: Bluetooth set up by the technician. (x = 1, 2) MM1 > 170; MM2 > 270		Event only archived and not displayed on the display during normal machine operation.
082	Temporary communication problem with the keyboards/TFT display.		Check the insulation. Check the wiring and connections.
083	Services key communication error.	 Incorrect keyboard configuration (if applicable). Wiring interrupted Card failure. 	Check that the dip switches are correctly configured on the key board (if applicable). Check cabling Replace key board.
(x)83*	Group x (x = 1, 2, 3, 4) keypad communication error Note: Group 1 is to the far left.	 Incorrect keyboard configuration (if applicable). Wiring interrupted Card failure. 	Check that the dip switches are correctly configured on the key board (if applicable). Check cabling Replace key board.
(x)85*	Bluetooth communication error (x = 1, 2) MM1 > 185; MM2 > 285	 Incorrect association with measure grinder. Measure grinder turned off. 	•Repeat device association.
089	NVM RAM data integrity error	measure grinder.	Turn the machine off and on again. If the error persists, replace the CPU board. Check the condition of the clock battery.
091*	No tank during milk washing cycle		 Check the correct operation of the tank presence sensor on the manual control panel. Check the wiring.
092	Request water softener resin regeneration.	Removal of tank during the wash.Tank presence sensor faulty.	Softener maintenance.
093	Request replacement water filter.		Replace the water-softner filter.
096	Maintenance needed.		The machine has displayed the message to warn the user that maintenance must be performed. Carry out maintenance operations.



MALFUN CODE	DESCRIPTION	POSSIBLE CAUSES	VERIFICATIONS and SOLUTIONS
097*	Reset standard password.	• Action desired by the user by entering the special code (applicable only for machines with TFT display).	
098	Historical malfunctions and wash 1 reset.	Initialisation malfunction history (and washing history for machines without TFT display)	Event only archived and not displayed on the display during normal machine operation.
099	Default data input.		
105	SD card communication malfunction.	SD card corrupted or malfunction.	•Replace SD card.
282	Keypad reset operation carried out by CPU board due to repeated communication problems.		Check the insulation. Check the wiring and connections.
583	TS/AS keyboard board communication error. RGB light module failure only for Emblem R.	Break in wiring.Keyboard board failure.Light board failure.	Check wiring. Replace keyboard board. Replace light board.
683	Turbosteam module communication malfunction.	Break in wiring. Board failure.	Check wiring. Replace Turbosteam board.

Faults - * - appear only in some product configurations.