

2.5 Fault code table

Fault code P000...	Error description	Cause
		Remedial action
P000100 P000101 P000102	Water outlet sensor – Interruption – Short circuit – Short circuit after Ub+	- Check the water outlet sensor. – Check cables for continuity, short circuit and damage. – Unplug connector XB4, measure resistance between cable RD (chamber 9) and cable RD (chamber 10). – Measured values see page 17, deviating values → renew lead harness of heater.
P00010A	Cold air – timeout	The combustion chamber has not cooled sufficiently for a restart. Check whether hot combustion air is drawn in. If not → check flame sensor, see Fault code P000120 and Fault code P000121.
P000110 P000111 P000112	Water inlet sensor – Interruption – Short circuit – Short circuit after Ub+	- Check the water inlet sensor. – Check cables for continuity, short circuit and damage. – Unplug connector XB4, measure resistance between cable BU (chamber 5) and cable BU (chamber 6). – Measured values see page 17, deviating values → renew lead harness of heater.
P000114	Possible risk of overheating (implausible signal) i Note! Fault code P000114 is only displayed if - the heater is in operation - Temperature reached at water outlet sensor at least 80 °C.	Too large temperature difference between the water inlet and water outlet sensor. - For remedial action, see Fault code P000115. - Check the water inlet sensor. – Unplug connector XB4, measure resistance between cable BU (chamber 5) and cable BU (chamber 6). – Measured values see page 17, deviating values → renew lead harness of heater.
P000115	Overheating – software threshold exceeded	Temperature at the water outlet sensor >125 °C. - Check water circuit for leaks (heater controller in warm position) - If non-return valve / thermostat in the water circuit, check the flow direction. - Check water throughput rate. - Vent water circuit. - Check the water outlet sensor – Check cables for continuity, short circuit and damage. – Unplug connector XB4, measure resistance between cable RD (chamber 9) and cable RD (chamber 10). – Measured values see page 17, deviating values → renew lead harness of heater. - Check water pump, see Fault code P000253 to Fault code P000258.
P000116	Overheating – hardware threshold exceeded	Temperature at the water outlet sensor >130 °C. - For remedial action, see Fault code P000115. - Check the water outlet sensor. – Check cables for continuity, short circuit and damage. – Unplug connector XB4, measure resistance between cable RD (chamber 9) and cable RD (chamber 10). – Measured values see page 17, deviating values → renew lead harness of heater.
P00011A	Operating lock-out – too many overheating events detected	The control box is locked due to too frequent consecutive overheating (Fault code P000114 , Fault code P000115). - For remedial action, see Fault code P000114, Fault code P000115. - Unlock control box, see page 7.

Fault code P000...	Error description	Cause
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P000120 P000121 P000122	Flame sensor – Interruption – Short circuit – Short-circuit to Ub+	- Check flame sensor. – Check cable for continuity, short circuit and damage. – Unplug connector XB4, measure resistance between cable BN (chamber 7) and cable BN (chamber 8). – Measured values see page 17, deviating values → renew lead harness of heater. - Next display Fault code P000120, Fault code P000121 → Renew control box, see repair step 1, see page 14.
P000125 P000126	Flame cutout from start process Flame cutout within the control range 0% – 25%	- Check exhaust and combustion air system. - Check fuel quantity and fuel supply, see page 21. - Check flame sensor, see Fault code P000120 and Fault code P000121.
P000127	Flame cutout within the control range 25% – 50%	
P000128	Flame cutout within the control range 50% – 75%	
P000129	Flame cutout within the control range 75% – 100%	
	 Note! In case of flame cutout during the start phase or in normal operation the heater is restarted (max. 5 times). If the restart was successful, the fault code display is deleted.	
P00012A	Unsuccessful start procedure	- Check exhaust and combustion air system. - Check fuel quantity and fuel supply, see page 21. - Renew the fuel filter. - Clean the fuel filter in the connection socket of the metering pump.
P00012B	Operation inhibit, too many unsuccessful start procedures	Following five unsuccessful start attempts the control box is locked. - Unlock control box, see page 7. - Check fuel quantity and fuel supply, see page 21.
P000143	Air pressure sensor – implausible signal	Heater in emergency mode. The air pressure is outside the characteristic curve for the altitude adjustment ($P < 598 \text{ hPa}$ or $P > 1106 \text{ hPa}$). 12V: Check connection to the CAN BE. Delete error. 24V: Delete error. If the fault persists, replace the control box
P000150 P000151 P000152	Circuit board temperature sensor – defective (voltage too high) – defective (voltage too low) – Overtemperature detected	Replace control box, see repair step 1, Page 14
P000200 P000201	Metering pump interruption Metering pump – short circuit	- Check metering pump lead harness for continuity, short circuit and damage. – Lead harness ok → renew the metering pump.
P000202	Metering pump – short circuit downstream of +Ub or transistor error	- Check cables for continuity, short circuit and damage. – Unplug the connector at the metering pump. - Display Fault code P000200 metering pump defective → renew metering pump.

Fault code P000...	Error description	Cause
		Remedial action
P0002a1	Water pump – Control / Diagnosis pin interruption	- Check lead harness of the water pump: - Unplug connector -XB3 at the heater - Unplug connector -XB8/2 at the water pump - Check water pump lead harness for continuity, short circuit and damage - If water pump lead harness ok → renew the water pump
P000210 P000211 P000212	Glow plug – interruption Glow plug – short circuit Glow plug – short circuit downstream of +Ub or transistor error  Caution! Damage to unit in case of overvoltage Voltage > 9.5 V / 18 V irreparably damages the glow plug. → Test function with max. 9.5 V / 18 V.  Note Note the short-circuit withstand capability of the power pack.	- Check glow plug. - Check cables for continuity, short circuit and damage. - Unplug connector -XB4, unclip cable WH (chamber 3) and cable WH (chamber 4). - Apply max. 9.5 V / 18 V voltage to the glow plug and after 25 sec measure the current intensity. - Measured value 9.5 A / 4.75 A (+1 / -1.5) the glow plug is ok - Deviating values → renew the glow plug.
P000213	Glow plug – ignition energy too low	Glow plug energy input is too low. - Check cables for continuity, short circuit and damage. - Check glow plug, see Fault code P000210 to Fault code P000212.
P000220 P000221 P000222	Electric motor – interruption Electric motor – short circuit Electric motor – short circuit downstream of +Ub or transistor error	- Visual inspection of electric motor / control unit (contacting). - Check electric motor for dirt / corrosion, clean if necessary. - Check blower wheel for blockage, remove blockage if necessary. - Replace electric motor if necessary.
P000223 P000224	Electric motor – blocking Electric motor – current input too high	Impeller blocked (frozen, soiled, sluggish, ...). - Remove blockage. - Check electric motor for smooth and easy running by turning the impeller manually. - Next display Fault code P000223 / Fault code P000224 → renew the blower, see repair step 7, Page 18.
P000250 P000251	Water pump – interruption Water pump – short circuit	- Check lead harness of the water pump: - Unplug connector -XB3 at the heater - Unplug connector -XB8/2 at the water pump. - Check cable for continuity, short circuit and damage. - Lead harness of the water pump ok → renew the water pump.
P000252	Water pump - short circuit downstream of +Ub or transistor error	- Unplug connector -XB8/2 at the water pump. - Display Fault code P000250 Water pump defective → renew water pump.
P000253	Water pump – blocking	Water hoses laid free from kinks?
P000254	Water pump – overcurrent cutout	Water pump / water circuit dirty?
P000255	Water pump – speed below minimum	Water pump / water circuit dirty?
P000256	Water pump – dry running	- Check the coolant liquid level in the water circuit. - Vent the water pump / water circuit.

Fault code P000...	Error description	Cause
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P000257	Water pump – overheating	Water pump ambient temperature too high. Position the water pump at an adequate distance from hot vehicle parts.
P000258	ADR water pump Undervoltage / Overvoltage	- Check lead harness of the water pump: - Unplug connector -XB3 at the heater - Unplug connector -XB8/2 at the water pump. - Check cable for continuity, short circuit and damage. - Lead harness of the water pump ok → renew the water pump.
P000259	ADR water pump / vehicle blower Short circuit	- Check the cables to the water pump and to the vehicle blower for continuity, short circuit and damage. - Check the coolant circuit. - Check blower relay.
P000260	Universal output Interruption	- Check cable for continuity and damage. - If necessary, check coding for universal outlet.
P000261	Vehicle blower – short circuit	- Check electric motor cover for damage and correct fit. - Electric motor cover ok → renew blower relay -K1.
P000262	Universal output Short circuit downstream of Ub+ or transistor fault	Check cable for continuity, short circuit and damage.
P000300	Overheating detection Metering pump hardware or cutout circuit defective	- Check the water outlet sensor. - Check cables for continuity, short circuit and damage. - Unplug connector XB4, measure resistance between cable RD (chamber 9) and cable RD (chamber 10). - Measured values see page 17, deviating values → renew lead harness of heater. - Next display Fault code P000300 → renew lead harness of the heater. - Unlock control box, see page 7.
P000301	Watchdog reset	Delete errors, the heater remains ready for operation.
P000302	Too many watchdog resets	Replace control box, see repair step 1, Page 14
P000303	Operating lockout: Too frequent output stage errors	Replace control box, see repair step 1, Page 14
P000304	Too many resets (loose contact)	Replace control box, see repair step 1, Page 14
P000305	Control box not calibrated	Replace control box, see repair step 1, Page 14
P000306	Second cutout circuit is defective	Replace control box, see repair step 1, Page 14
P000307	CAN communication error control unit	Delete error, if it occurs repeatedly check the CAN connection between heater and control unit
P00030A	CAN communication error	Delete error, if it occurs repeatedly check the CAN connection between heater and control unit
P000310	Control box cutout due to overvoltage	Overvoltage applied at the control box without interruption for at least 20 seconds. Unplug connector -XB1 at the heater.
P000311	Heater cutout due to overvoltage  Note! Heater is not functioning.	- Start the vehicle engine. - Measure voltage between cable RD (chamber 1) and cable BN (chamber 2). - Voltage >15 volt - Check alternator controller - Check the battery.

Fault code P000...	Error description	Cause
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P000312	Control box cutout due to undervoltage	Undervoltage applied at the control box without interruption for at least 20 seconds.
P000313	Heater cutout due to undervoltage i Note! Heater is not functioning.	- Unplug connector -XB1 at the heater. - Start the vehicle engine. - Measure voltage between cable RD (chamber 1) and cable BN (chamber 2). - Voltage < 10 volt - Check the fuses, the supply cables, the ground connections and the positive terminal post at the battery for voltage drop (corrosion).
P000315	Implausible air pressure information	Check connection to the control unit. If fault persists, use EasyScan to test the control unit.
P000316	Insufficient heat dissipation via the coolant	Too many consecutive short heating mode operations. Check coolant circuit
P000330	Control box defective	Replace control box, see repair step 1, Page 14
P000331	Control box defective	Replace control box, see repair step 1, Page 14
P000332	Control box defective	Replace control box, see repair step 1, Page 14
P000342	Invalid configuration	12V / 24V: Too many CAN components connected. Check the configuration. 24V ADR: Use one CAN control unit only, check the connection to the control unit if necessary.
P000394	ADR button – Short circuit	Check the cable and button for continuity, short circuit, damage. Replace if necessary.
P000500	Fault memory entry ErrorState_GSC. Fault response: Heating or ventilation mode is continued.	- Withdrawal of the active request (fault remains active as long as heating or diagnosis request still exists). - Delete fault memory.
P000A00	Communication is ended by the heater. EasyFan does not respond to the coded number of messages.	- Reset the fault by withdrawing the active request (fault remains active as long as heating or diagnosis request exists). - Delete fault memory.
P000E01	Runtime limit exceeded	Coded runtime end reached.



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