ERROR CODES AND DISPLAYS
AIRTRONIC 2
HYDRONIC S3

The error code list is valid for the following engine-independent air and water heaters:

Air heaters for diesel fuel	**Order No.**	**Order No. incl. EasyStart Pro**
Airtronic S2, D2L, 12 V	25.2721.05.0000	25.2753.05.0000
Airtronic S2, D2L, 24 V	25.2726.05.0000	25.2754.05.0000
Airtronic M2, D4L, 12 V	25.2720.05.0000	25.2755.05.0000
Airtronic M2, D4L, 24 V	25.2729.05.0000	25.2756.05.0000
Airtronic M2, D4R, 12 V	25.2746.05.0000	25.2757.05.0000
Air heaters for petrol	**Order No.**	**Order No. incl. EasyStart Pro**
Airtronic M2, B4L, 12 V	20.1987.05.0000	20.2032.05.0000

Water heaters for petrol	**Order No.**
B 4 E – 12 V CS	20.2007.05.0000
B 5 E – 12 V CS	20.2008.05.0000
Water heaters for diesel	
D 4 E – 12 V CS	25.2933.05.0000
D 5 E – 12 V CS	25.2934.05.0000
D 6 E – 12 V CS	25.2761.05.0000
Water heaters for diesel	
with inlet pressure resistant metering pump	
D 4 E – 12 V CS VDP	25.2943.05.0000
D 5 E – 12 V CS VDP	25.2942.05.0000

A WORLD OF COMFORT

Eberspächer

Chapter Chapter title Page

Chapter contents

Note

- All information relates to the current repair instructions of the respective heaters.
- In case of cross-references and page references (e.g. to individual repair steps or measured values), the underlying repair instructions of the respective heater must therefore always be used.
- The current repair instructions are available in the Eberspächer Partner Portal, under the following link: https://partner.eberspaecher.com/de

1 Airtronic 2

1.1 Flashing code display

1.1.1 Function display and error output via flashing code

Output of the operating display (combustion mode or output control):

➔ LED lights up permanently

In case of error:

➔ Output of the current error as a flashing code (see table)

2 s	4 s	6 s	8 s	No.	Error
				0	No fault / normal operation
				1	Locking due to overheating
				2	Overvoltage cut-off
				3	Undervoltage cut-off
				4	Glow plug is defective
				5	Burner motor is defective
				6	Invalid configuration
				7	Safety time exceeded
				8	Overheating
				9	Metering pump is defective
				10	Ext. Temperature sensor / setpoint transmitter is defective
				11	Combination sensor is defective
				12	Flame cutout
				13	Too many exceedances of “safety time 1”[1)]
				14	Control box defective
				15	Other errors: EasyScan diagnosis necessary

1) Exceeding of the allowable number of starts

1.2 Fault code table

Fault code **P000…** for EasyScan and TP 7.1 (if connected via CAN) **(…)** for TP 7 (LIN)	**Error description**	**Cause** ▪ Remedial action	**Error class** for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
P000100 (071) **P000101** (072) **P000102** (073)	Overheating/air outlet sensor – Interruption – Short circuit – Short circuit to battery (+)	▪ Check overheating sensor. – Check cables for continuity, short circuit and damage. – Unplug connector -XB2, measure resistance between cable BU (chamber 1) and cable BNWH (chamber 2). – Measured values see repair instructions, in case of deviating values –> renew lead harness of heater.	**1**: Service
P000110 (087) **P000111** (088) **P000112** (089)	Air inlet error – Interruption – Short circuit – Short circuit to battery (+)	▪ Check the air inlet sensor. – In case of visible damage –> replace control box. ▪ Delete fault memory. – If the error continues to be displayed –> replace control box.	**1**: Service
P00010A (051)	Cold blowing – Timeout	The combustion chamber has not cooled sufficiently for a restart. ▪ Check whether hot combustion air is drawn in. If no –> check flame sensor, see Fault code P000120 (064) and Fault code P000121 (065).	**1**: Service
P000114 (014)	Possible risk of overheating (implausible signal) **Note!** Fault code P000114 (014) is displayed only if ▪ the heater is in operation ▪ Temperature reached at overheating sensor at least 80 °C.	Temperature difference between the flame and overheating sensor is too large. ▪ For remedial action, see Fault code P000115 (012). ▪ Check flame sensor. – Unplug connector XB4, measure resistance between cable BNWH (chamber 2) and cable GN (chamber 3). – Measured values see repair instructions, in case of deviating values –> renew lead harness of heater.	**1**: Service
P000115 (012)	Overheating – Software threshold exceeded	Temperature at overheating sensor >125 °C ▪ Check air throughput ▪ Check overheating sensor – Check cables for continuity, short circuit and damage. – Unplug connector -XB2, measure resistance between cable BU (chamber 1) and cable BNWH (chamber 2). – Measured values see repair instructions, in case of deviating values –> renew lead harness of heater.	**5**: Air Ducting or Outlet
P000116 (017)	Overheating – Hardware threshold exceeded	Temperature at overheating sensor >130 °C ▪ For remedial action, see Fault code P000115 (012). ▪ Check overheating sensor. – Check cables for continuity, short circuit and damage. – Unplug connector -XB2, measure resistance between cable BU (chamber 1) and cable BNWH (chamber 2). – Measured values see repair instructions, in case of deviating values –> renew lead harness of heater.	**5**: Air Ducting or Outlet

Fault code **P000…** for EasyScan and TP 7.1 (if connected via CAN) **(…)** for TP 7 (LIN)	**Error description**	**Cause** ▪ Remedial action	**Error class** for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
P00011A (015)	Operating lock-out – too many overheating events detected	The control box is locked due to too frequent consecutive overheating (Fault code P000114 (014), Fault code P000115 (012)). ▪ For remedial action, see Fault code P000114 (014), Fault code P000115 (012). ▪ Unlock control box, see Chapter 4.3, p. 5.	**6**: Overheat. Heater locked
P000120 (064) **P000121** (065) **P000122**	Flame sensor – Interruption – Short circuit – Short circuit to battery (+)	▪ Check flame sensor. – Check cable for continuity, short circuit and damage. – Unplug connector -XB2, measure resistance between cable BU (chamber 1) and cable GN (chamber 2) . – Measured values see repair instructions, in case of deviating values –> renew lead harness of heater. ▪ Next display Fault code P000120 (064) and Fault code P000121 (065) –> replace control box, see Chapter 5.4.2, p. 5.	**1**: Service
P000125 (057) **P000126** (053) **P000127** (054) **P000128** (055) **P000129** (056)	Flame cutout from start process Flame cutout within the control range 0% – 25% Flame cutout within the control range 25% – 50% Flame cutout within the control range 50% – 75% 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.	▪ Check exhaust and combustion air system. ▪ Check fuel quantity and supply, see Chapter 5.6, p. 5. ▪ Check flame sensor, see Fault code P000120 (064) and Fault code P000121 (065).	**1**: Service
P00012A (052)	Safety time 1 – Exceedance	▪ Check exhaust and combustion air system. ▪ Check fuel quantity and supply, see Chapter 5.6, p. 5. ▪ Clean the fuel filter, as the case may be renew the fuel filter.	**4**: Fuel Supply or Pump
P00012B (050)	Operating lock-out, too many safety timeouts	Following five unsuccessful start attempts the control box is locked. ▪ Unlock control box, see Chapter 4.3, p. 5. ▪ Check fuel quantity and supply, see Chapter 5.6, p. 5.	**1**: Service

Fault code **P000…** for EasyScan and TP 7.1 (if connected via CAN) **(…)** for TP 7 (LIN)	**Error description**	**Cause** ▪ Remedial action	**Error class** for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
P000130 (060)	External air temperature sensor (LEF2) – Interruption	▪ Test external air inlet sensor ▪ Disconnect the GYRD / BNWH plug-in connection of the external sensor and measure the resistance value, diagram and table of values, – if temperature sensor is ok, re-connect the GYRD / BNWH plug-in connection. ▪ Disconnect connector XS12/XB12 at the heater and measure the resistance value in connector housing XB12 between PIN 6 and PIN 12. If an interruption occurs, the ohmic value is > 7175 Ω / > 3 kΩ. ▪ If resistance value is ok –> replace control box.	**7**: Restricted Operation
P000131 (061) **P000132**	External air temperature sensor (LEF2) – Short circuit – Short circuit to battery (+)	▪ Test external air inlet sensor ▪ Disconnect the GYRD / BNWH plug-in connection of the external sensor and measure the resistance value, diagram and table of values, – if ok, re-connect the GYRD / BNWH plug-in connection. ▪ Disconnect connector XS12/XB12 at the heater and measure the resistance value in connector housing XB12 between PIN 6 and PIN 12. In case of short circuit, the ohmic value is < 486 Ω / < 800 Ω. ▪ If the error P000131 (061) continues to be displayed –> replace control box.	**7**: Restricted Operation
P000143 (006)	Air pressure sensor – Implausible signal	▪ Delete error and try again. ▪ If error occurs again, replace control box.	**7**: Notlauf
P000200 (048) **P000201** (047)	Metering pump – Interruption – Short circuit	▪ Check metering pump lead harness for continuity, short circuit and damage. – Lead harness ok –> renew the metering pump.	**4**: Fuel Supply or Pump
P000202 (049)	Metering pump – Short circuit to battery (+) or transistor error	▪ Check cables for continuity, short circuit and damage. – Unplug the connector at the metering pump. ▪ Display Fault code P000200 (048) metering pump defective –> replace metering pump.	**4**: Fuel Supply or Pump

Fault code **P000…** for EasyScan and TP 7.1 (if connected via CAN) **(…)** for TP 7 (LIN)	**Error description**	**Cause** ▪ Remedial action	**Error class** for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
P000210 (020) **P000211** (021) **P000212** (022)	Glow plug – Interruption – Short circuit – Short circuit to battery (+) 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. – In case of deviating values –> replace glow plug.	**1**: Service
P000213 (019)	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 (020) to Fault code P000212 (022).	**1**: Service
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.	**1**: Service
P000223 (033) **P000224** (035)	Electric motor – blocking – current input too high	Impeller blocked (frozen, soiled, sluggish, ...). ▪ Remove blockage. – Check electric motor for smooth and easy running by turning the impeller manually. **Note!** In the case of the **Airtronic D4L 24V**, during running heating mode and simultaneous motor start and undervoltage of the vehicle battery, in exceptional cases, error message P000223 (033) can occur, although no valid faults exist. ▪ Delete faults using EasyScan and acknowledge in the control unit on occurrence.	**1**: Service
P000260 **P000261** **P000262**	Universal output – Interruption – Short circuit – Short circuit to battery (+) or transistor error	Test universal output. ▪ Test WHRD conductor for continuity, short circuit and damage. ▪ If cable ok –> replace control box.	**1**: Service

Fault code **P000…** for EasyScan and TP 7.1 (if connected via CAN) **(…)** for TP 7 (LIN)	**Error description**	**Cause** ▪ Remedial action	**Error class** for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
P000300 (074)	Overheating detection Metering pump hardware or cutout circuit defective	▪ Test air 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 repair instructions, in case of deviating values –> renew lead harness of heater. ▪ Next display Fault code P000300 (074) –> replace lead harness of the heater. ▪ Unlock control box, see Chapter 4.3, p. 7.	**1**: Service
P000301 (090) **P000302** (090)	Watchdog reset Too many watchdog resets	▪ Delete errors, the heater remains ready for operation. ▪ Replace control box, see Chapter 5.4.2, p. 7	**1**: Service
P000303 (099)	Operating lockout: Too frequent output stage errors	▪ Replace control box, see Chapter 5.4.2, p. 7	**1**: Service
P000304 (091)	Too many resets (loose contact)	▪ Replace control box, see Chapter 5.4.2, p. 7	**1**: Service
P000305 (095)	Control box not calibrated	▪ Replace control box, see Chapter 5.4.2, p. 7	**1**: Service
P000306 (098)	Second cutout circuit is defective	▪ Replace control box, see Chapter 5.4.2, p. 7	**1**: Service
P000307 (081)	CAN communication error in control unit		**1**: Service
P00030A	CAN communication error	Delete error. Heater remains ready for operation.	**1**: Service
P000310 (010) **P000311** (010)	Control box cutout due to overvoltage Heater cutout due to overvoltage **Note!** Heater is not functioning.	Overvoltage applied at the control box without interruption for at least 20 seconds. ▪ Unplug connector -XB1 at the heater. ▪ Start the vehicle engine. ▪ Measure voltage between cable RD (chamber 1) and cable BN (chamber 2). – Airtronic 12 volt – voltage > 16 V –> check generator controller – Airtronic 24 volt – voltage > 32 V –> check generator controller – Check the battery.	**3**: Overvoltage
P000312 (011) **P000313** (011)	Control box cutout due to undervoltage Heater cutout due to undervoltage **Note!** Heater is not functioning.	Undervoltage applied at the control box without interruption for at least 20 seconds. ▪ Unplug connector -XB1 at the heater. ▪ Start the vehicle engine. ▪ Measure voltage between cable RD (chamber 1) and cable BN (chamber 2). – Airtronic 12 volt – voltage < 10 V –> check generator controller – Airtronic 24 volt – voltage < 21 V –> check generator controller – Check the fuses, the supply cables, the ground connections and the positive terminal post at the battery for voltage drop (corrosion).	**2**: Undervoltage

Fault code **P000…** for EasyScan and TP 7.1 (if connected via CAN) **(…)** for TP 7 (LIN)	**Error description**	**Cause** ▪ Remedial action	**Error class** for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
P000330 (092)	ROM error	▪ Replace control box, see Chapter 5.4.2, p. 8	**1**: Service
P000331 (093)	RAM error	▪ Replace control box, see Chapter 5.4.2, p. 8	**1**: Service
P000332 (094)	NVMEM error (EEPROM, DataFlash)	▪ Replace control box, see Chapter 5.4.2, p. 8	**1**: Service
P000342	Invalid configuration	Check ADR coding.	**1**: Service
P000394	ADR button – Short circuit	▪ Test ADR button. – Check the cables at GYRD / BNWH for continuity, short-circuit and damage. – If cables ok –> replace control box.	**1**: Service
P000440 (083)	Timeout, communication with control unit	▪ Delete errors and disconnect heater from the power supply. ▪ If error occurs again –> replace control unit.	**0**: No message

2 Hydronic S3 CS

2.1 Fault code table

Fault code P000…	Error description	Cause ▪ Remedial action	Error class for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
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 9, deviating values –> renew lead harness of heater.	**1**: Service
P00010A	Cold air – timeout	The combustion chamber has not cooled sufficiently for a restart. ▪ Check whether hot combustion air is drawn in. If no –> check flame sensor, see Fault code and Fault code P000121.	**1**: Service
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 9, deviating values –> renew lead harness of heater.	**1**: Service
P000114	Possible risk of overheating (implausible signal) **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 9, deviating values –> renew lead harness of heater.	**1**: Service
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 9, deviating values –> renew lead harness of heater. ▪ Check water pump –> see Fault code P000253 to Fault code P000258.	**5**: Water Circuit or Pump

Fault code P000…	Error description	Cause ▪ Remedial action	Error class for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
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 10, deviating values –> renew lead harness of heater.	**5**: Water Circuit or Pump
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 10.	**6**: Overheat. Heater locked
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 10, deviating values –> renew lead harness of heater. ▪ Next display Fault code , Fault code P000121 –> Renew control box, see repair step 1, see page 10.	**1**: Service
P000125 **P000126** **P000127** **P000128** **P000129**	Flame cutout from start process Flame cutout within the control range 0% – 25% Flame cutout within the control range 25% – 50% Flame cutout within the control range 50% – 75% 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.	▪ Check exhaust and combustion air system. ▪ Check fuel quantity and fuel supply, see page 10. ▪ Check flame sensor, see Fault code and Fault code P000121.	**1**: Service
P00012A	Unsuccessful start procedure	▪ Check exhaust and combustion air system. ▪ Check fuel quantity and fuel supply, see page 10. ▪ Clean the fuel filter, as the case may be renew the fuel filter.	**4**: Fuel Supply or Pump
P00012B	Operation inhibit, too many unsuccessful start procedures	Following five unsuccessful start attempts the control box is locked. ▪ Unlock control box, see page 10. ▪ Check fuel quantity and fuel supply, see page 10.	**1**: Service

Fault code P000…	Error description	Cause ▪ Remedial action	Error class for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
P000143	Air pressure sensor – implausible signal	Heater in emergency mode. The air pressure is outside the characteristic curve for the altitude adjustment (P < 598 hPa or P > 1106 hPa). ▪ 12V: Check connection to the CAN BE. Delete error. ▪ 24V: Delete error. If the fault persists, replace the control box	**7**: Restricted Operation
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 12	**1**: Service
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.	**4**: Fuel Supply or 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.	**4**: Fuel Supply or Pump
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	**5**: Water Circuit or 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.	**1**: Service
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.	**1**: Service

Fault code P000…	Error description	Cause ▪ Remedial action	Error class for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
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.	**1**: Service
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 11.	**1**: Service
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.	**5**: Water Circuit or 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.	**5**: Water Circuit or Pump
P000253	Water pump – blocking	▪ Water hoses laid free from kinks?	**5**: Water Circuit or Pump
P000254	Water pump – overcurrent cutout	▪ Water pump / water circuit dirty?	**5**: Water Circuit or Pump
P000255	Water pump – speed below minimum	▪ Water pump / water circuit dirty?	**5**: Water Circuit or Pump
P000256	Water pump – dry running	▪ Check the coolant liquid level in the water circuit. ▪ Vent the water pump / water circuit.	**5**: Water Circuit or Pump
P000257	Water pump – overheating	Water pump ambient temperature too high. ▪ Position the water pump at an adequate distance from hot vehicle parts.	**5**: Water Circuit or Pump
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.	**5**: Water Circuit or 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.	**5**: Water Circuit or Pump
P000260	Universal output Interruption	▪ Check cable for continuity and damage. ▪ If necessary, check coding for universal outlet.	**1**: Service
P000261	Vehicle blower – short circuit	▪ Check electric motor cover for damage and correct fit. – Electric motor cover ok –> renew blower relay -K1.	**1**: Service

Fault code P000…	Error description	Cause ▪ Remedial action	Error class for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
P000262	Universal output Short circuit downstream of Ub+ or transistor fault	▪ Check cable for continuity, short circuit and damage.	**1**: Service
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 12, deviating values –> renew lead harness of heater. ▪ Next display Fault code P000300 –> renew lead harness of the heater. ▪ Unlock control box, see page 12.	**1**: Service
P000301 **P000302**	▪ Watchdog reset ▪ Too many watchdog resets	▪ Delete errors, the heater remains ready for operation. ▪ Replace control box, see repair step 1, page 12	**1**: Service
P000303	Operating lockout: Too frequent output stage errors	▪ Replace control box, see repair step 1, page 12	**1**: Service
P000304	Too many resets (loose contact)	▪ Replace control box, see repair step 1, page 12	**1**: Service
P000305	Control box not calibrated	▪ Replace control box, see repair step 1, page 12	**1**: Service
P000306	Second cutout circuit is defective	▪ Replace control box, see repair step 1, page 12	**1**: Service
P000307	CAN communication error control unit	▪ Delete error, if it occurs repeatedly check the CAN connection between heater and control unit	**1**: Service
P00030A	CAN communication error	▪ Delete error, if it occurs repeatedly check the CAN connection between heater and control unit	**1**: Service
P000310 **P000311**	Control box cutout due to overvoltage Heater cutout due to overvoltage **Note!** Heater is not functioning.	Overvoltage applied at the control box without interruption for at least 20 seconds. ▪ Unplug connector -XB1 at the heater. ▪ 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.	**3**: Overvoltage
P000312 **P000313**	Control box cutout due to undervoltage Heater cutout due to undervoltage **Note!** Heater is not functioning.	Undervoltage applied at the control box without interruption for at least 20 seconds. ▪ 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).	**2**: Undervoltage

Fault code P000…	Error description	Cause ▪ Remedial action	Error class for control elements TP7.1: ▪ EasyStart Web ▪ EasyStart Pro
P000315	Implausible air pressure information	▪ Check connection to the control unit. If fault persists, use EasyScan to test the control unit.	**1**: Service
P000316	Insufficient heat dissipation via the coolant	Too many consecutive short heating mode operations. ▪ Check coolant circuit	**5**: Water Circuit or Pump
P000330	Control box defective	▪ Replace control box, see repair step 1, page 13	**1**: Service
P000331	Control box defective	▪ Replace control box, see repair step 1, page 13	**1**: Service
P000332	Control box defective	▪ Replace control box, see repair step 1, page 13	**1**: Service
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.	**1**: Service
P000394	ADR button – Short circuit	▪ Check the cable and button for continuity, short circuit, damage. Replace if necessary.	**1**: Service
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.	**0**: No message
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.	**0**: No message
P000E01	Runtime limit exceeded	▪ Coded runtime end reached.	**1**: Service

Eberspächer Climate Control Systems
GmbH & Co. KG
Eberspächerstraße 24
73730 Esslingen
Germany
info@eberspaecher.com
www.eberspaecher.com

Eberspächer

22.1000.34.7801.0A EN 05.2020