




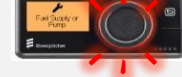

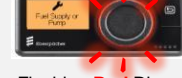





## Error Messages & Troubleshooting - EasyStart Pro

Protection or fault type	Display message	Status ring condition	Cause of failure	Recommended Actions
Supply voltage to the unit is too high	 Overvoltage	 Flashing <b>Red</b> Ring	Supply voltage has risen above the limit for over 20 sec: - Above 16V for a 12V system - Below 32V for a 24V system	1) Check the battery condition and replace if needed.
Controller cannot detect signal from external temperature sensor (if connected)	◀ 1 ▶ Ext. Temp. Sensor defective	 Flashing <b>Red</b> Ring	<b>NOTE:</b> Kits with EasyStart Pro controller do not feature external temperature sensors. Caused by defective external temperature sensor (if fitted)	1) Check controller setting as it could be set to look for an external temperature sensor. 2) Perform a <b>Factory Reset</b> of the controller in the <b>WORKSHOP</b> menu.
Controller cannot detect signal from internal temperature sensor	◀ 2 ▶ Int. Temp. Sensor defective	 Flashing <b>Red</b> Ring	Caused by defective internal temperature sensor	Replace the EasyStart Pro controller.
Rotary knob button is stuck	◀ 3 ▶ Rotary Knob jammed	 Flashing <b>Red</b> Ring	1) Rotary Knob has become stuck due to misalignment in the housing 2) Rotary Knob was held down for too long	1) Gently try to free the knob by turning or manipulating it to correct the alignment. 2) If cannot be freed, replace the EasyStart Pro controller. <b>Note:</b> Do Not pull too hard on the knob as it can become detached from the housing, and it is not possible to replace the knob without dis-assembling the controller.
Back button is stuck	◀ 4 ▶ Pushbutton jammed	 Flashing <b>Red</b> Ring	1) Back button has become stuck due to misalignment in the housing 2) Back button was held down for too long or pressed to many times.	1) Gently try to free the button by manipulating it to correct the alignment. 2) Disconnect power from system for 5 min, replace the EasyStart Pro controller. if fault doesn't reset.
Setup data is missing from controller	◀ 6 ▶ Missing Data	 Flashing <b>Red</b> Ring	Some setup data is missing which is required for correct operation	1) Remove fuses for 5min and re-insert, 2) Then complete full setup as per manual.
Communication between controller and heater is not as expected	◀ 9 ▶ CAN communication error	 Flashing <b>Red</b> Ring	1) Wiring harness is damaged or has been modified / cut / lengthened 2) 5A fuse was removed or not in properly while power connected to controller	1) Check 5A fuse in fuse holder and replace if needed - if error still remains then, 2) Check loom plugs are all connected properly and if any pins are bent or damaged and repair if needed. 3) Check if loom has been modified or damaged and replace if needed.
Heater will not start  (Controller will light up and function as normal but heater will not start fan or burner will not start)	No messages displayed	 NOT Flashing	Can be caused by previous errors logged in the memory (to many restarts for example).	1) Go into the <b>Workshop</b> menu in the controller. 2) Go to <b>Error Memory</b> 3) Select <b>H1: Heater</b> and check and <u>record</u> all the error codes shown (they normally are of format "P000xxx") 4) Erase them 5) Go back and select <b>Control Unit</b> and check and <u>record</u> all error codes shown 6) Erase them 7) Exit <b>Workshop</b> menu 8) Try restarting the heater <b>Note:</b> Past error codes will not show in the <b>Setup</b> menu - you must go into the <b>Workshop</b> menu to view the "P000xxx" error codes. <b>It is critical that error codes logged are noted down before erasing them and to ensure the root cause of each of them is addressed.</b>

A full list of the "P000xxx" format error codes, their meaning and the causes can be found in the Eberspächer Troubleshooting Manual "REPAIR INSTRUCTIONS - AIRTRONIC S2/M2"

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Protection or fault type	Display message	Status ring condition	Cause of failure	Recommended Actions
<b>Controller specific error codes (shown via the Workshop menu):</b>				
HW - Watch Dog Reset	<b>P000301</b>		Internal error	Delete errors, the heater remains ready for operation.
HW - Too Many Watch Dog Reset	<b>P000302</b>		Internal error	Replace heater ECU
CAN Communication Error	<b>P00030A</b>		5A fuse was removed or not in properly while power connected to controller or wiring harness is damaged or has been modified/cut/lengthened	1) Check 5A fuse in fuse holder and replace if needed - if error still remains then, 2) Check loom plugs are all connected properly and if any pins are bent or damaged and repair if needed. 3) Check if loom has been modified or damaged and replace if needed.
Lack of devices on CAN (No Heater)	<b>P001700</b>		1) Power was connected to the controller before the system was fully set-up 2) 5A fuse has blown in harness 3) Wiring loom plug not connected properly at heater or controller 4) Wiring loom plug pin bent or damaged 5) Wiring loom has been modified or damaged	1) Remove fuses for 5min and re-insert - if error still remains then, 2) Check 5A fuse in fuse holder and replace if needed - if error still remains then, 3) Check loom plugs are all connected properly and if any pins are bent or damaged and repair if needed. 4) Check if loom has been modified or damaged and replace if needed.
Change of devices on CAN (MISMATCH)	<b>P001701</b>		Controller has previously been connected to another heater unit and paired with it	1) Press the operating knob once to pair the controller with the heater unit currently connected. 2) If error remains, perform a <b>Factory Reset</b> of the controller in the <b>WORKSHOP</b> menu.
External Temp Sensor Faulty (short circuit)	<b>P001702</b>		N/A - no external temp sensor used	Check if loom has been modified or damaged and replace if needed.
External Temp Sensor Faulty (interruption)	<b>P001703</b>		N/A - no external temp sensor used	Check if loom has been modified or damaged and replace if needed.
Fatal Internal Error	<b>P001704</b>		Controller has internal error	Replace EasyStart Pro controller
External Flash Defect	<b>P001705</b>		Controller has internal error	Replace EasyStart Pro controller
Push Button Jammed	<b>P001706</b>		Back button is jammed or has been held down for too long	1) Gently try to free the button by manipulating it to correct the alignment. 2) If cannot be freed, replace the EasyStart Pro controller.
Internal Temp Sensor Faulty (short circuit)	<b>P001707</b>		Faulty temperature sensor	Replace EasyStart Pro controller
Internal Temp Sensor Faulty (interruption)	<b>P001708</b>		Faulty temperature sensor	Replace EasyStart Pro controller
Clock not Calibrated	<b>P00170A</b>		Some configuration data is missing	1) Remove fuses for 5min and re-insert, 2) Then complete full setup as per manual.
Invalid Configuration of System	<b>P00170B</b>		Some configuration data is missing	1) Remove fuses for 5min and re-insert, 2) Then complete full setup as per manual.
Control Knob Jammed	<b>P00170C</b>		Rotary Knob is jammed or has been held down for too long	1) Gently try to free the knob by turning or manipulating it to correct the alignment. 2) If cannot be freed, replace the EasyStart Pro controller. <b>Note: Do Not pull too hard on the knob as it can become detached from the housing, and it is not possible to replace the knob without dis-assembling the controller.</b>

## How to enter the Workshop Menu for EasyStart Pro

- 1) Activate heater by pressing the rotary knob (if not already ON)
- 2) Rotate the knob to select the **Setup** menu (cog icon) and press the rotary knob
- 3) Rotate the knob to select the **Timer** sub-menu (clock icon) but **DO NOT** press the rotary knob
- 4) Hold down the Back button for 2 seconds - **Workshop** will show on the screen.
- 5) Rotate the knob to select the **Error Memory** sub-menu
- 6) Select **H1: Heater** to check stored errors in the heater (record all the errors codes listed - they are in P00xxxx format)
- 7) Once recorded they can be deleted by selecting **Erase**
- 8) Select **Control Unit** to check stored errors in the EasyStart Pro controller (record all the errors codes listed - they are in P00xxxx format)
- 9) Once recorded they can be deleted by selecting **Erase**

In Settings menu, when Heater icon is flashing

Press and HOLD Back button for at least 2 sec



- Confirm the menu by pressing the operating button.
- Select [Control unit] or [Heater] by turning the operating button.



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