

Guided troubleshooting for upgrading the auxiliary heater VW T6.1 (PA) as of model year 2020

Event entries	Error message	Cause	Corrective action	Checked
Auxiliary heater upgrade				
No connection to the auxiliary heater	No communication can be set up with the control unit	Auxiliary heater defective	Check whether the auxiliary heater is functioning properly. If the auxiliary heater is not functioning properly, the auxiliary heater must be replaced	
		W-bus line not connected at the auxiliary heater or connected to the wrong plug-in socket	-> Plug green/white wire of Micro Timer in the upgrade wiring harness onto PIN 2	
		WTT diagnosis software not closed before upgrading	Close the WTT diagnosis software	
		There are 2 different WTT versions installed on the computer. Driver collision	Delete the older WTT version from the computer in the Control Panel (Software Manager)	
		WTT diagnosis adapter not connected to the computer	Connect the WTT diagnosis adapter to the computer (USB)	

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Event entries	Error message	Cause	Corrective action	Checked
Upgrade cannot be carried out or completed	When the WTT diagnosis adapter is plugged in: new hardware found. You do not have the security rights to change device drivers.	You are not logged on to the computer as an administrator	Restart the computer and log in as administrator	
	No matching dongle found!	Dongle not plugged in Dongle damaged USB interface damaged The dongle driver was not installed correctly	Insert the dongle into the USB interface Use a new dongle Use another available USB interface Start the upgrade software with administrator rights	
	Another heater has already been upgraded with this software. No other heaters can be upgraded! Please order a new upgrade kit.	This dongle has already been used to upgrade another auxiliary heater => dongle blocked	Use a new dongle	
	Button: upgrade is greyed out.	Upgrade instructions were not read	Click the Instructions button, read through and then confirm with ok	
	Communication was terminated! Repeat upgrade!	In Loader mode, the data transmission for the upgrade was interrupted or compromised. Possible reasons: Power supply interrupted W-Bus connection interrupted The vehicle battery is connected to the charger (Fault due to earth offset) Workshop lamp positioned near the auxiliary heater (interference due to frequencies) Other programs are open on the computer	Ensure power supply Ensure stable W-bus connection Disconnect charger Disconnect workshop lamp Close all open programs Repeat upgrade according to instructions	

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Initialising Cronus				
		Wires on the Cronus are not connected or not connected correctly	Check the connectors on the Cronus	
		Cronus initialisation was not successful with WTT diagnosis	Reinitialise Cronus: See Upgrading instructions under Final Work See Quick guide on the dealer portal 1327689A	
		Cronus initialisation cannot be completed or is terminated because the heater goes into control pause before completion.	Check the correct wiring on the existing air-conditioner according to upgrading instructions	

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Event entries	Error message	Cause	Corrective action	Checked
Reasons for no parking heater function after upgrading				
Displayed W-Bus error code with event entry	Error message	Cause	Corrective action	Completed
12h W-bus communication failure	W-bus communication failure (bus fault, protocol error)	No stable W-bus connection to the heater can be set up	Update the Cronus firmware to version 1.1.0 dealers.webasto.com -> Product Service -> Software & Tools -> Auxiliary heater upgrade ->	
HFF (indicated on the MultiControl display)		Communication to the heater	FW_Update_Cronus_T6.1_Kit:1328073A	
		Use of a control element that is not assigned to the upgrade - OE control element - Control element from a third-party supplier	Only use approved control elements from the Aftermarket price list - Multicontrol - T91 - T99 - HTM 100 - ThermoCall / ThermoConnect	
Displayed event entries WITHOUT any effect (after Cronus firmware update)				
Displayed W-Bus error code with event entry	Error message	Cause	Corrective action	Checked
5Dh Auxiliary heating function not possible	The auxiliary heating function is prevented by the heater (Error does NOT affect auxiliary heaters upgraded to parking heater function)	Text collision	No measures required, as error message does not affect the upgraded auxiliary heaters. Error does not have to be deleted	
12h W-bus communication failure	W-bus communication failure (bus fault, protocol error)	Text collision	No actions required. Error does not have to be deleted	
Please always make sure that the vehicle supports the parking heater function.				Checked
The parking heater does not start when.....		Battery voltage too low	Check the state of charge and the capacity of the starter battery. Charge or replace if necessary	
		Vehicle still in transport mode	End transport mode	
		Fuel level too low	Fill fuel level to at least level above reserve	
		the vehicle has not been moved but started several times with a long runtime	Move vehicle more than 30m and faster than 5km/h	