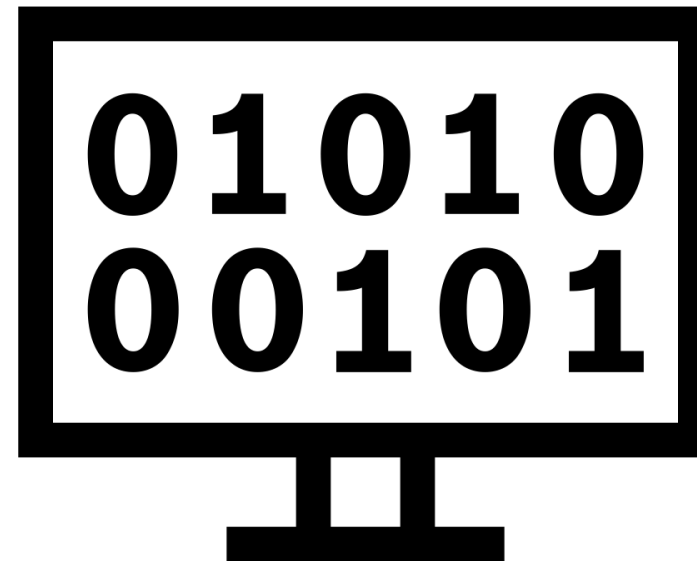


Bosch eBike Diagnostic Tool

Error codes - OEM



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1 Control unit

ERROR - IDENTIFIER	ERROR DESCRIPTION	COUNTER MEASURES
Code: 100001 Type: Warning Title: Control unit error - sample hardware and software detected.	Warning! Sample hardware and software detected on the control unit. Sample hardware is not intended for sale!	<ul style="list-style-type: none"> • Replace the control unit.
Code: 100002 Type: Warning Title: Control unit error - sample hardware detected.	Warning! Sample hardware detected on the control unit. Sample hardware is not intended for sale!	<ul style="list-style-type: none"> • Replace the control unit.
Code: 100003 Type: Warning Title: Control unit error - sample software detected.	Warning! Sample software detected on the control unit. Sample hardware is not intended for sale!	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system. If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code: 110000 Type: Error Title: Control unit error - internal error.	Control unit internal error. Possible effects: Impaired function.	<ul style="list-style-type: none"> • Delete error. • Restart the system. If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.

Code:	110001	Control unit internal error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	If the problem persists:
Title:	Control unit error - internal error.		<ul style="list-style-type: none"> • Replace the control unit.
Code:	111000	Control unit error during software update.	<ul style="list-style-type: none"> • Delete error. • Restart the system. • Perform the software update again.
Type:	Error	Possible effects: Impaired function.	If the problem persists:
Title:	Control unit error - internal error during software update.		<ul style="list-style-type: none"> • Replace the control unit.
Code:	111001	Error when transferring the software to the eBike via app.	<ul style="list-style-type: none"> • Delete error. • Restart the system. • Either perform the software update using the Bosch DiagnosticTool or restart the software update via the app for testing.
Type:	Error		If the problem persists:
Title:	Control unit error - software update failed.		<ul style="list-style-type: none"> • Check whether the smartphone in use is functioning correctly. • Check for sources of interference. • If smartphone errors and sources of interference can be ruled out, replace the control unit.
Code:	111002	Control unit error during software update.	<ul style="list-style-type: none"> • Delete error. • Restart the system. • Either perform the software update using the Bosch DiagnosticTool or restart the software update via the app for testing.
Type:	Error	Possible effects: Impaired function.	If the problem persists:
Title:	Control unit error - internal error during software update.		<ul style="list-style-type: none"> • Check whether the internal battery of the control unit is sufficiently charged. To do this, leave the eBike switched on for 30 minutes. Then repeat the process. • Replace the control unit.

Code:	111003	Software update of a component failed.	<ul style="list-style-type: none">• Disconnect the system from Bosch DiagnosticTool and restart the system. The control unit now attempts to perform the software update again.
Type:	Error		
Title:	Control unit error - software update of a component failed.		If the problem persists: <ul style="list-style-type: none">• Delete error.• Restart the system.• Test the control unit through replacement.• Test the other components through replacement.
Code:	112000	Control unit error when connecting to the smartphone. Possible effects: Smartphone connection could not be established.	<ul style="list-style-type: none">• Delete error.• Restart the system.• Log in to the app again and repeat the pairing process.
Type:	Error		
Title:	Control unit error - pairing problem.		If the problem persists: <ul style="list-style-type: none">• Reinstall the app on the smartphone.• Reset the control unit (factory reset).• Replace the control unit.
Code:	112001	Control unit error - missing system ID. Possible effects: Impaired function.	<ul style="list-style-type: none">• Ensure that the control unit corresponding to this eBike is installed (a test through replacement may have been performed).• Delete error.• Restart the system.
Type:	Error		
Title:	Control unit error - invalid eBike configuration.		If the problem persists: <ul style="list-style-type: none">• Copy the system ID from the drive unit to the control unit (use the function for transferring the system ID in Bosch DiagnosticTool).

Code:	112002	Control unit error - control unit system ID is not identical to the drive unit system ID. Possible effects: Impaired function.	<ul style="list-style-type: none"> • Ensure that the control unit corresponding to this eBike is installed (a test through replacement may have been performed). • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Copy the system ID from the drive unit to the control unit (use the function for transferring the system ID in Bosch DiagnosticTool).
Code:	112100	Control unit error - CAN communication error. Possible effects: System restarts.	<ul style="list-style-type: none"> • Check cabling. • Perform software update if available. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the control unit.
Code:	113000	Control unit error - software error. Possible effects: Impaired function.	<ul style="list-style-type: none"> • Perform the software update (CTRL+ALT+A). • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the control unit.
Code:	113001	Control unit error - software error. Possible effects: Impaired function.	<ul style="list-style-type: none"> • Perform the software update (CTRL+ALT+A). • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the control unit.

Code:	113101	Control unit memory error.	<ul style="list-style-type: none"> • Perform the software update (CTRL+ALT+A). • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - memory error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	113102	Control unit memory error.	<ul style="list-style-type: none"> • Perform the software update (CTRL+ALT+A). • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	
Title:	Control unit error - memory error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	113103	Control unit memory error.	<ul style="list-style-type: none"> • Perform the software update (CTRL+ALT+A). • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	
Title:	Control unit error - memory error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	113110	Control unit error - software error.	<ul style="list-style-type: none"> • Perform the software update (CTRL+ALT+A). • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - software error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	113111	Control unit memory error.	<ul style="list-style-type: none"> • Perform the software update (CTRL+ALT+A). • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - memory error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.

Code:	113120	Control unit error - software error.	<ul style="list-style-type: none"> • Perform the software update (CTRL+ALT+A). • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function. Bluetooth connection impaired.	
Title:	Control unit error - software error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	113130	Control unit error - software error.	<ul style="list-style-type: none"> • Perform the software update (CTRL+ALT+A). • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - software error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	114000	Control unit error - CAN communication error.	<ul style="list-style-type: none"> • Check cabling. • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Control unit error - CAN communication.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	114001	Control unit error - CAN communication error.	<ul style="list-style-type: none"> • Check cabling. • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	
Title:	Control unit error - CAN communication not possible.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.

Code:	115000	Control unit error - USB communication error.	<ul style="list-style-type: none"> • Check cabling. • Remove USB hubs between control unit and PC. • Save diagnostic report. • Delete error. • Restart the system and/or PC.
Type:	Error	Possible effects: Unstable communication with Bosch DiagnosticTool.	<p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the control unit.
Title:	Control unit error - USB communication.		
Code:	116000	Control unit error - ABS component not recognised.	<ul style="list-style-type: none"> • Check cabling. • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: ABS function cannot be guaranteed.	<p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace ABS component. • Drive unit component.
Title:	Control unit error - ABS component not recognised.		
Code:	120000	Control unit internal error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function. System restarts.	<p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the control unit.
Title:	Control unit error - internal error.		
Code:	120001	Control unit error - internal communication error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	<p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the control unit.
Title:	Control unit error - internal error.		

Code:	120002	Control unit error - internal communication error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	
Title:	Control unit error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	120003	Control unit error - internal communication error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	
Title:	Control unit error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	120101	Control unit error - internal communication error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	
Title:	Control unit error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	120102	Control unit error - internal communication error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	
Title:	Control unit error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	120103	Control unit error - internal communication error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	
Title:	Control unit error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.

Code:	121000	Control unit error - internal communication error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: System restarts.	
Title:	Control unit error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	130000	Control unit internal error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the control unit.
Code:	131000	Control unit error - a continuously pressed button is detected.	<ul style="list-style-type: none"> • Check whether the buttons on the control unit are blocked (if required, press multiple times and clean). • Carry out a functional test of the buttons in Bosch DiagnosticTool. • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - button is stuck.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	132000	The internal real-time clock of the control unit has been reset. This indicates that a reset (on/off switch pressed for longer than 8 seconds) has been carried out, or the internal battery has been removed or is discharged.	<ul style="list-style-type: none"> • Delete the error by carrying out a 'hard reset'. • Charge the internal battery of the control unit for at least 30 minutes (charges automatically when riding or if the eBike is connected to the charger or a USB battery charger is connected). • Delete error. • Restart the system.
Type:	Warning	Possible effects: The system time has been set to the last saved value.	
Title:	Control unit error - internal real-time clock reset.		If the problem persists: <ul style="list-style-type: none"> • Replace the internal battery of the control unit. • Replace the control unit.

Code:	133000	Control unit temperature sensor error (measured value is implausible).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Control unit error - sensor system.		<ul style="list-style-type: none"> Perform software update if available. Replace the control unit.
Code:	133001	Control unit temperature sensor error (measured value is implausible).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Control unit error - sensor system.		<ul style="list-style-type: none"> Perform software update if available. Replace the internal battery of the control unit. Replace the control unit.
Code:	133002	Control unit error - temperature monitoring.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Control unit error - sensor system.		<ul style="list-style-type: none"> Perform software update if available. Replace the internal battery of the control unit. Replace the control unit.
Code:	134000	Control unit internal error.	<ul style="list-style-type: none"> Perform a connection test using the Bosch DiagnosticTool. Delete error. Restart the system.
Type:	Error		If the problem persists:
Title:	Control unit error - internal error.		<ul style="list-style-type: none"> Perform software update if available. Replace the control unit.

Code:	135000	Control unit brightness sensor error. Sensor is no longer responding.	<ul style="list-style-type: none"> • Delete error. • Restart the system. • Perform the brightness sensor test using the Bosch DiagnosticTool.
Type:	Error	Possible effects: Automatic dimming does not work.	
Title:	Control unit error - brightness sensor.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the control unit.
Code:	140000	Control unit internal error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - internal error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the control unit.
Code:	141000	Control unit error - internal battery.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - internal battery.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the internal battery of the control unit. • Replace the control unit.
Code:	141001	Control unit error - internal battery discharged.	<ul style="list-style-type: none"> • Start the system and leave it switched on for at least 45 minutes in order to charge the internal battery of the control unit or to charge the control unit for at least 45 minutes via USB. Ensure that the ambient temperature is between 15 and 35 °C. • Delete error. • Restart the system.
Type:	Error	If this occurs repeatedly, it may be necessary to replace the internal battery of the control unit.	
Title:	Control unit error - internal battery discharged.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the internal battery of the control unit. • Replace the control unit.

Code:	141103	The internal battery of the control unit is deeply discharged and must be charged for at least one hour.	<ul style="list-style-type: none"> • Switch on the system and connect it to a USB to start the charging process. Leave the system switched on for at least one hour. Ensure that the ambient temperature is between 15 and 35 °C. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the internal battery of the control unit. • Replace the control unit.
Code:	141104	The internal battery of the control unit is deeply discharged and must be replaced.	<ul style="list-style-type: none"> • Replace the internal battery of the control unit. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the control unit.
Code:	141200	Control unit error - internal battery likely defective. Possible effects: Impaired function.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the internal battery of the control unit. • Replace the control unit.
Code:	142001	Control unit error - power supply interrupted. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Check cabling. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Test control unit base cable to the drive unit through replacement. • Test control unit through replacement. • Test drive unit through replacement. • Replace defective component.

Code:	142002	Control unit power supply error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - power supply.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the control unit.
Code:	143000	Control unit error - charging process.	<ul style="list-style-type: none"> • Check cabling. • Delete error. • Restart the system.
Type:	Error	Possible effects: Impaired function.	
Title:	Control unit error - charging process.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	143001	Control unit error - USB charging voltage low.	<ul style="list-style-type: none"> • Check the USB cable. Use a shorter USB cable, if required. • Delete error. • Restart the system.
Type:	Error		
Title:	Control unit error - charging process.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	143002	Control unit error - overvoltage detected during the charging process.	<ul style="list-style-type: none"> • Check the system cabling. • Check the USB cable. Check the USB power source. • Delete error. • Restart the system.
Type:	Error	This error can affect charging via USB and charging using a Bosch battery.	
Title:	Control unit error - charging process.		If the problem persists: <ul style="list-style-type: none"> • Replace the control unit.
Code:	151001	Control unit temperature too high.	<ul style="list-style-type: none"> • Put the eBike in a cooler environment and allow it to cool down for at least 15 minutes (avoid direct sunlight). • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Control unit error - temperature too high.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the control unit.

Code:	151002	Control unit error - temperature very high.	<ul style="list-style-type: none"> Put the eBike in a cooler environment and allow it to cool down for at least ten minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Error	Possible effects: LED brightness substantially reduced.	
Title:	Control unit error - temperature high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the control unit.
Code:	151003	Control unit error - temperature high.	<ul style="list-style-type: none"> Put the eBike in a cooler environment and allow it to cool down for at least five minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Warning	Possible effects: LED brightness reduced.	
Title:	Control unit warning - temperature high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the control unit.
Code:	152001	Control unit temperature too high.	<ul style="list-style-type: none"> Put the eBike in a cooler environment and allow it to cool down for at least 15 minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Control unit error - temperature too high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the control unit.
Code:	152002	Control unit error - temperature high.	<ul style="list-style-type: none"> Put the eBike in a cooler environment and allow it to cool down for at least ten minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Error	Possible effects: LED brightness substantially reduced.	
Title:	Control unit error - temperature high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the control unit.

Code:	152003	Control unit error - temperature high.	<ul style="list-style-type: none"> Put the eBike in a cooler environment and allow it to cool down for at least five minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Warning	Possible effects: LED brightness reduced.	
Title:	Control unit warning - temperature high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the control unit.
Code:	153001	Control unit battery temperature too high.	<ul style="list-style-type: none"> Put the eBike in a cooler environment and allow it to cool down for at least 15 minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Control unit error - temperature too high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the internal battery of the control unit. Replace the control unit.
Code:	153002	Control unit error - temperature high.	<ul style="list-style-type: none"> Put the eBike in a cooler environment and allow it to cool down for at least ten minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Error	Possible effects: LED brightness substantially reduced.	
Title:	Control unit error - temperature high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the internal battery of the control unit. Replace the control unit.
Code:	153003	Control unit error - temperature high.	<ul style="list-style-type: none"> Put the eBike in a cooler environment and allow it to cool down for at least five minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Warning	Possible effects: LED brightness reduced.	
Title:	Control unit warning - temperature high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the internal battery of the control unit. Replace the control unit.

2 Drive unit

ERROR - IDENTIFIER	ERROR DESCRIPTION	COUNTER MEASURES
Code: 500006 Type: Error Title: Drive unit error - motor control.	Motor control error. Possible effects: No motor support.	<ul style="list-style-type: none"> Delete error code. Restart the system. If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code: 500007 Type: Error Title: Drive unit error - motor control.	Motor control error. Possible effects: No motor support.	<ul style="list-style-type: none"> Delete error code. Restart the system. If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code: 500008 Type: Error Title: Drive unit error - motor control.	Motor control error. Possible effects: No motor support.	<ul style="list-style-type: none"> Delete error code. Restart the system. If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code: 500009 Type: Error Title: Drive unit error - motor control.	Motor control error. Possible effects: No motor support.	<ul style="list-style-type: none"> Delete error code. Restart the system. If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.

Code:	50000B	Motor control overcurrent error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50000C	Motor control error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: Malfunction due to faulty configuration.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50000D	Microcontroller (uC) motor control error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support. Drive unit stays in bootloader.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50000E	Microcontroller (uC) motor control error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support. Drive unit stays in bootloader.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50000F	Microcontroller (uC) motor control error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support. Drive unit stays in bootloader.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.

Code:	500010	Lacking motor calibration.	• Perform software update if available.
Type:	Error	Possible effects: No motor support.	If the problem persists:
Title:	Drive unit error - motor control.		• Replace drive unit.
Code:	500011	FOC cogging torque calibration timeout.	• Delete error code.
Type:	Error		• Restart the system.
Title:	FOC cogging torque calibration timeout.		If the problem persists:
			• Perform software update if available.
			• Replace drive unit.
Code:	500012	Microcontroller (uC) motor control error.	• Delete error code.
Type:	Error	Possible effects: No motor support.	• Restart the system.
Title:	Drive unit error - motor control.		If the problem persists:
			• Perform software update if available.
			• Replace drive unit.
Code:	500013	Microcontroller (uC) motor control error.	• Delete error code.
Type:	Error	Possible effects: No motor support.	• Restart the system.
Title:	Drive unit error - motor control.		If the problem persists:
			• Perform software update if available.
			• Replace drive unit.
Code:	500014	Microcontroller (uC) motor control error.	• Delete error code.
Type:	Error	Possible effects: No motor support.	• Restart the system.
Title:	Drive unit error - motor control.		If the problem persists:
			• Perform software update if available.
			• Replace drive unit.

Code:	500015	Microcontroller (uC) motor control error.	<ul style="list-style-type: none"> • Delete error code. • Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	500016	Microcontroller (uC) motor control error.	<ul style="list-style-type: none"> • Delete error code. • Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	500017	Microcontroller (uC) motor control error.	<ul style="list-style-type: none"> • Delete error code. • Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	500018	Microcontroller (uC) motor control error.	<ul style="list-style-type: none"> • Delete error code. • Restart the system.
Type:	Error	Possible effects: System will automatically shut down.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	500019	Microcontroller (uC) motor control error.	<ul style="list-style-type: none"> • Delete error code. • Restart the system.
Type:	Error	Possible effects: System will automatically shut down.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.

Code:	50001A	Microcontroller (uC) motor control error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50001B	Error in the configuration of the drive unit - calibration of the rotor start position faulty.	<ul style="list-style-type: none"> Replace component.
Type:	Error	Possible effects: No motor support.	
Title:	Timeout when calibrating the rotor start position.		
Code:	501000	Motor control communication error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	501001	Motor control internal error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	501002	Motor control initialisation error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.

Code:	501003	Motor control initialisation error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - motor control.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	501004	Motor control initialisation error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - motor control.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	501005	Motor control initialisation error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - motor control.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	501006	Motor control error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - motor control.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	501007	Motor control error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - motor control.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.

Code:	501008	Motor control error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	501009	Motor control overcurrent error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50100A	Motor control temperature warning (excessive temperature).	<ul style="list-style-type: none"> Delete warning. Switch off the system and, if necessary, let it cool down for a few minutes. Restart the system.
Type:	Warning	Possible cause: This warning may appear particularly at high external temperatures and/or with high loads.	
Title:	Drive unit warning - temperature monitoring.	Possible effects: No motor support. System remains switched on.	If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50100B	Motor control temperature error (excessive temperature).	<ul style="list-style-type: none"> Delete error. Switch off the system and, if necessary, let it cool down for a few minutes. Restart the system.
Type:	Error	Possible cause: This warning may appear particularly at high external temperatures and/or with high loads.	
Title:	Drive unit error - temperature monitoring.	Possible effects: No motor support. System remains switched on.	If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50100C	Motor control error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - motor control.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.

Code:	50100D	Motor control voltage monitoring.	<ul style="list-style-type: none"> Delete error. Check correct cabling to the battery (cable, plug connector, battery seat). Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Title:	Drive unit error - motor control.		
Code:	501010	Motor control error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Title:	Drive unit error - motor control.		
Code:	501011	Motor control error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Title:	Drive unit error - motor control.		
Code:	501012	Motor control error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Title:	Drive unit error - motor control.		
Code:	502000	Control communication error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Title:	Drive unit error - control.		

Code:	502001	Control initialisation error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - control.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	502002	Control initialisation error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - control.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	502003	Control initialisation error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - control.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	502004	Control initialisation error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - control.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	502005	Control temperature monitoring - temperature too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	If the problem persists:
Title:	Drive unit error - temperature monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.

Code:	502006	Control voltage monitoring error - voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	502007	Control voltage monitoring error - voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	502008	Control voltage monitoring error - voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	502009	Control self-inspection error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System remains switched on.	
Title:	Drive unit error - control.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	503004	Circuit board (PCB) temperature too high.	<ul style="list-style-type: none"> • Allow the drive unit to cool down. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Drive unit error - temperature too high.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace component.

Code:	503005	Circuit board (PCB) temperature too low.	<ul style="list-style-type: none"> Put the drive unit in a warmer environment. Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Drive unit error - temperature too low.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace component.
Code:	503006	Temperature on microcontroller (uC) of the drive unit too high.	<ul style="list-style-type: none"> Allow the drive unit to cool down. Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Drive unit error - temperature too high.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace component.
Code:	503007	Temperature on microcontroller (uC) of the drive unit too low.	<ul style="list-style-type: none"> Put the drive unit in a warmer environment. Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Drive unit error - temperature too low.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace component.
Code:	503008	Overcurrent or short circuit at the Low Power Port of the drive unit.	<ul style="list-style-type: none"> Check connected consumer and cabling. Delete error code. Restart the system.
Type:	Error	Possible effects: Consumer is switched off.	
Title:	Drive unit error - overcurrent error at additional connection.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. If you have made sure that an external consumer is not a possible cause, replace the component.

Code:	503009	Overcurrent or short circuit at the on-board computer connection of the drive unit.	<ul style="list-style-type: none"> • Check on-board computer and cabling. • Delete error. • Restart the system.
Type:	Error	Possible effects: Consumer is switched off.	
Title:	Drive unit error - overcurrent error at on-board computer connection.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Test on-board computer through replacement. • Replace component.
Code:	50300A	Overcurrent or short circuit at one of the light outputs of the drive unit.	<ul style="list-style-type: none"> • Check connected lighting (front and rear) and cabling. • Delete error. • Restart the system.
Type:	Error	Possible effects: Lighting is switched off.	
Title:	Drive unit error - light overcurrent error.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • If you have made sure that the lighting and cabling are OK, replace the component.
Code:	50300B	Too high a power consumption identified at the lighting outputs.	<ul style="list-style-type: none"> • Check connected lighting and cabling. • Check whether an error also occurs if only one light or no lighting is connected/plugged in. • Ensure that the lighting used is suitable (not too much power required). • Delete error. • Restart the system.
Type:	Error	Possible effects: Lighting is switched off.	
Title:	Drive unit error - lighting power consumption.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Check whether an error also occurs if only the front or rear light is connected.If yes: Replace and make a complaint about the component if necessary.If no: The problem has nothing to do with the drive unit (perhaps unsuitable lighting equipped). • If yes: Replace and make a complaint about the component if necessary. • If no: The problem has nothing to do with the drive unit (perhaps unsuitable lighting equipped). • If yes: Replace and make a complaint about the component if necessary. • If no: The problem has nothing to do with the drive unit (perhaps unsuitable lighting equipped).

Code:	50300C	Overcurrent or short circuit at the High Power Port of the drive unit.	<ul style="list-style-type: none"> • Check connected consumer and cabling. • Check whether an error also occurs if a consumer is unplugged. • Delete error. • Restart the system.
Type:	Error	Possible effects: Consumer is switched off.	
Title:	Drive unit error - High Power Port overcurrent error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace component.
Code:	50300D	Power consumption at the High Power Port too high.	<ul style="list-style-type: none"> • Check connected consumer and cabling. • Check whether an error also occurs if a consumer is unplugged. • Delete error. • Restart the system.
Type:	Warning	Possible effects: Consumer is switched off.	
Title:	Drive unit warning - power consumption.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace component.
Code:	50300E	Drive unit error - battery voltage unstable.	<ul style="list-style-type: none"> • Check battery and cabling. • Check whether the battery is locked (LOCK active). • Delete error. • Restart the system.
Type:	Error		
Title:	Drive unit error - power supply.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery. • If replacing the battery does not resolve the problem, replace the drive unit.
Code:	50300F	Error in the Mid Power Port of the drive unit.	<ul style="list-style-type: none"> • Check connected consumer and cabling. • Delete error code. • Restart the system.
Type:	Error	Possible effects: The connected consumer is switched off.	
Title:	Drive unit error - overcurrent error at additional connection.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • If you have made sure that an external consumer is not a possible cause, replace the component.

Code:	503010	Drive unit error - DC/DC converter.	<ul style="list-style-type: none">• Delete error.• Restart the system.
Type:	Error		
Title:	Drive unit error - DC/DC converter.		If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• Replace and make a complaint about the drive unit.
Code:	503011	Overvoltage in drive unit supply.	<ul style="list-style-type: none">• Check battery.• Check cabling between battery and drive unit.• Delete error.• Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Drive unit error - overvoltage.		If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• Replace the battery.• If replacing the battery does not resolve the problem, replace the drive unit.
Code:	503012	Undervoltage in drive unit supply.	<ul style="list-style-type: none">• Check battery.• Check cabling between battery and drive unit.• Delete error.• Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Drive unit error - undervoltage.		If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• Replace the battery.• If replacing the battery does not resolve the problem, replace the drive unit.
Code:	503013	Overvoltage at microcontroller (uC) of the drive unit.	<ul style="list-style-type: none">• Delete error.• Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Drive unit error - overvoltage.		If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• Replace drive unit.

Code:	503014	Drive unit internal error - undervoltage at microcontroller (uC).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	If the problem persists:
Title:	Drive unit error - undervoltage.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	503015	Drive unit internal error - 6 V voltage not available.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	If the problem persists:
Title:	Drive unit error - power supply.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	503016	Drive unit internal error - 5 V overvoltage.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	If the problem persists:
Title:	Drive unit error - power supply.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	503017	Drive unit internal error - 5 V undervoltage.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	If the problem persists:
Title:	Drive unit error - power supply.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	503018	Drive unit internal error - DC/DC converter overvoltage.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	If the problem persists:
Title:	Drive unit error - power supply.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.

Code:	503019	Drive unit internal error - DC/DC converter undervoltage.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	If the problem persists:
Title:	Drive unit error - power supply.		<ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50301A	DC/DC converter short circuit power supply of the drive unit.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: All consumers are switched off.	If the problem persists:
Title:	Drive unit error - external connections power supply.		<ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	50301B	The drive unit was restarted unexpectedly.	<ul style="list-style-type: none"> Check cabling. Delete error. Restart the system.
Type:	Warning		If the problem persists:
Title:	Drive unit warning - unexpected restart.		<ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	504000	Motor control error - test bench mode active.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support.	If the problem persists:
Title:	Drive unit error - test bench mode active.		<ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	505002	Motor control operating system error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support.	If the problem persists:
Title:	Drive unit error - task execution operating system.		<ul style="list-style-type: none"> Perform software update if available. Replace drive unit.

Code:	505003	Motor control operating system error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - task execution operating system.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	505004	Motor control operating system error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - operating system task execution time exceeded.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	505010	Motor control operating system error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - watchdog timeout operating system.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	505020	Motor control operating system error.	<ul style="list-style-type: none"> Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - stack usage operating system.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	505110	Motor control operating system error.	<ul style="list-style-type: none"> Perform software update if available. Delete error code. Restart the system.
Type:	Error	Possible effects: No motor support. System restarts independently.	
Title:	Drive unit error - unexpected reset detected.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Replace drive unit.

Code:	505120	Drive unit internal error.	• Replace drive unit.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Drive unit internal error.		
Code:	506001	Drive unit application software error.	• Perform software update if available.
Type:	Error	Invalid block found. There may have been a transcription error during software update.	• Delete error code.
Title:	Drive unit error - data transcription error.	Possible effects: Application parameters lost. Various subsequent errors are possible.	• Restart the system.
			If the problem persists:
			• Replace drive unit.
Code:	506002	Drive unit application software error.	• Perform software update if available.
Type:	Error	Parameter could not be transcribed. There may have been a transcription error during software update.	• Delete error code.
Title:	Drive unit error - data transcription error.	Possible effects: Application parameters lost. Various subsequent errors are possible.	• Restart the system.
			If the problem persists:
			• Replace drive unit.
Code:	506003	Drive unit application software error.	• Perform software update if available.
Type:	Error	Parameter could not be deleted. There may have been a transcription error during software update.	• Delete error code.
Title:	Drive unit error - data transcription error.	Possible effects: Application parameters lost. Various subsequent errors are possible.	• Restart the system.
			If the problem persists:
			• Replace drive unit.
Code:	506004	Drive unit application software error.	• Perform software update if available.
Type:	Error	Insufficient memory for transcribing application parameters. There may have been a transcription error during software update.	• Delete error code.
Title:	Drive unit error - working memory operating system.	Possible effects: Application parameters lost. Various subsequent errors are possible.	• Restart the system.
			If the problem persists:
			• Replace drive unit.

Code:	506101	Drive unit application software error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error code. • Restart the system.
Type:	Error	Block could not be deleted. There may have been a transcription error during software update.	
Title:	Drive unit error - data transcription error.	Possible effects: Application parameters lost. Various subsequent errors are possible.	If the problem persists: <ul style="list-style-type: none"> • Replace drive unit.
Code:	506102	Drive unit application software error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error code. • Restart the system.
Type:	Error	Block cannot be completed. There may have been a transcription error during software update.	
Title:	Drive unit error - data transcription error.	Possible effects: Application parameters lost. Various subsequent errors are possible.	If the problem persists: <ul style="list-style-type: none"> • Replace drive unit.
Code:	506103	Drive unit application software error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error code. • Restart the system.
Type:	Error	There may have been a transcription error during software update.	
Title:	Drive unit error - data transcription error.	Possible effects: Application parameters lost. Various subsequent errors are possible.	If the problem persists: <ul style="list-style-type: none"> • Replace drive unit.
Code:	507000	13V5 power supply internal communication error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Potential effects: No supply for light, display, HPP and LPP.	
Title:	Drive unit computer error - peripherals power supply.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	507001	13V5 power supply internal error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Potential effects: No supply for light, display, HPP and LPP.	
Title:	Drive unit computer error - peripherals power supply.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.

Code:	510001	Drive unit torque sensor error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. Walk assistance not available.	
Title:	Drive unit error - torque sensor.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Try to recalibrate the rider's torque sensor by riding over 15 km/h with motor support, then still your feet (stop pedalling, no torqueless pedalling) and let the bicycle roll for about five seconds. Carry on as usual. • Replace drive unit.
Code:	510002	Drive unit torque sensor error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. Walk assistance not available.	
Title:	Drive unit error - torque sensor.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Check for magnetic fields (a magnetic field may interfere with the torque sensor). • If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km). • Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km). • Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool. <p>If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km).</p> <p>Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km).</p>

Code:	510003	Drive unit torque sensor error.	
Type:	Error	Possible effects: No motor support. Walk assistance not available.	
Title:	Drive unit error - torque sensor.		
			<ul style="list-style-type: none">• Save diagnostic report.• Perform software update if available.• Delete error.• Restart the system.
			<p>If the problem persists:</p> <ul style="list-style-type: none">• Check for magnetic fields (a magnetic field may interfere with the torque sensor).• Ask the customer how, where (specify location) and how often the error has occurred.• If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km).• Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km).• Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool.
			<p>Ask the customer how, where (specify location) and how often the error has occurred.</p>
			<p>If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km).</p>
			<p>Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km).</p>

Code:	510004	Drive unit torque sensor error.	
Type:	Error		
Title:	Drive unit error - torque sensor.	Possible effects: No motor support. Walk assistance not available.	<ul style="list-style-type: none">• Perform software update if available.• Delete error.• Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none">• Check for magnetic fields (a magnetic field may interfere with the torque sensor).• If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km).• Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km).• Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool. <p>If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km).</p> <p>Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km).</p>

Code:	510005	Drive unit torque sensor error.	
Type:	Error	Possible effects: No motor support. Walk assistance not available.	
Title:	Drive unit error - torque sensor.		
			<ul style="list-style-type: none">• Perform software update if available.• Delete error.• Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none">• Check for magnetic fields (a magnetic field may interfere with the torque sensor).• If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km).• Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km).• Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool. <p>If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km).</p> <p>Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km).</p>

Code:	510006	Drive unit torque sensor error.	
Type:	Error	Possible effects: No motor support. Walk assistance not available.	
Title:	Drive unit error - torque sensor.		
			<ul style="list-style-type: none">• Perform software update if available.• Delete error.• Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none">• Check for magnetic fields (a magnetic field may interfere with the torque sensor).• If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km).• Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km).• Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool. <p>If a steel chain ring is installed on the wheel, you may want to replace the magnetised chainring and chain, delete the error and do a test ride (2-3 km).</p> <p>Check whether magnetic components (bottle holders/pedals, etc.) have been installed. If yes, remove the parts, delete the error and do a test ride (2-3 km).</p>
Code:	510008	Drive unit torque sensor error.	
Type:	Error	Possible effects: No motor support. Walk assistance not available.	
Title:	Drive unit error - torque sensor.		
			<ul style="list-style-type: none">• Perform software update if available.• Delete error.• Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none">• Try to recalibrate the rider's torque sensor by riding over 15 km/h with motor support, then still your feet (stop pedalling, no torqueless pedalling) and let the bicycle roll for about five seconds. Carry on as usual.• Replace drive unit.

Code:	51000A	Drive unit torque sensor error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. Walk assistance not available.	
Title:	Drive unit error - torque sensor.		If the problem persists: <ul style="list-style-type: none"> • Replace drive unit.
Code:	51000B	Drive unit torque sensor error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. Walk assistance not available.	
Title:	Drive unit error - torque sensor.		If the problem persists: <ul style="list-style-type: none"> • Replace drive unit.
Code:	51000C	Drive unit torque sensor error.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. Walk assistance not available.	
Title:	Drive unit error - torque sensor.		If the problem persists: <ul style="list-style-type: none"> • Replace drive unit.
Code:	511001	Error in the acceleration sensor of the drive unit.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Speed display faulty.	
Title:	Drive unit error - acceleration sensor.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	511002	Error in the acceleration sensor of the drive unit.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Speed display faulty.	
Title:	Drive unit error - acceleration sensor.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.

Code:	511003	Error in the acceleration sensor of the drive unit.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Speed display faulty.	If the problem persists:
Title:	Drive unit error - acceleration sensor.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	511004	Error in the acceleration sensor of the drive unit.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Speed display faulty.	If the problem persists:
Title:	Drive unit error - acceleration sensor.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	511102	Error in the position sensor of the drive unit.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Speed display faulty.	If the problem persists:
Title:	Drive unit error - position sensor.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	511103	Error in the position sensor of the drive unit.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Speed display faulty.	If the problem persists:
Title:	Drive unit error - position sensor.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	511104	Error in the position sensor of the drive unit.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Speed display faulty.	If the problem persists:
Title:	Drive unit error - position sensor.		<ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.

Code:	513001	Error in the cadence sensor of the drive unit - calibration.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Cadence is not correctly displayed.	
Title:	Drive unit error - sensor system.	Limited motor support possible.	If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace component.
Code:	513002	Error in the cadence sensor of the drive unit - signal too low or absent.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Cadence is not correctly displayed.	
Title:	Drive unit error - sensor system.	Limited motor support possible.	If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace component.
Code:	51301C	Drive unit temperature monitoring error.	<ul style="list-style-type: none"> Allow the drive unit to cool down, if necessary. Save diagnostic report. Delete error. Restart the system.
Type:	Error	The drive unit is switched off for safety reasons.	
Title:	Drive unit error - temperature monitoring.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.
Code:	51301D	Drive unit temperature monitoring error.	<ul style="list-style-type: none"> Allow the drive unit to cool down, if necessary. Save diagnostic report. Delete error. Restart the system.
Type:	Error	The drive unit is switched off for safety reasons.	
Title:	Drive unit error - temperature monitoring.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace drive unit.

Code:	51301E	Drive unit temperature monitoring error.	<ul style="list-style-type: none"> • Allow the drive unit to cool down, if necessary. • Save diagnostic report. • Delete error. • Restart the system.
Type:	Error	The drive unit is switched off for safety reasons.	
Title:	Drive unit error - temperature monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace drive unit.
Code:	514001	Error in the magnetic field sensor of the drive unit.	<ul style="list-style-type: none"> • Check rim magnet. • Delete error. • Restart the system.
Type:	Error	Possible effects: Reduced drive unit output. Maximum speed depends on the gear. Speed display inaccurate.	
Title:	Drive unit error - sensor system.	Maximum top limit speed potentially too low.	If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace component.
Code:	514002	Error in the magnetic field sensor of the drive unit.	<ul style="list-style-type: none"> • Check rim magnet. • Delete error. • Restart the system.
Type:	Error	Possible effects: Reduced drive unit output. Speed display inaccurate.	
Title:	Drive unit error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace component.
Code:	514003	Error in the magnetic field sensor of the drive unit.	<ul style="list-style-type: none"> • Check rim magnet. • Delete error. • Restart the system.
Type:	Error	Possible effects: Reduced drive unit output. Speed display inaccurate.	
Title:	Drive unit error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace component.

Code:	514004	Magnetic field of the drive unit too strong.	
Type:	Info	Possible effects: No direct effects.	
Title:	Drive unit info - magnetic field too strong.		
			<ul style="list-style-type: none">• Check whether Bosch magnet originally installed.• Check the rim magnet distance.• Inspect the drive unit surroundings for magnetic sources of interference.• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• If you can rule out magnetic sources of interference as a possible cause, replace the drive unit.
Code:	514005	Magnetic field of the drive unit too strong.	
Type:	Warning	Possible effects: No direct effects.	
Title:	Drive unit warning - magnetic field too strong.		
			<ul style="list-style-type: none">• Check whether Bosch magnet originally installed.• Check the rim magnet distance.• Inspect the drive unit surroundings for magnetic sources of interference.• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• If you can rule out magnetic sources of interference as a possible cause, replace the drive unit.
Code:	514006	Magnetic field of the drive unit too strong.	
Type:	Error	Possible effects: No direct effects. Fault possible.	
Title:	Drive unit error - magnetic field too strong.		
			<ul style="list-style-type: none">• Check whether Bosch magnet originally installed.• Check the rim magnet distance.• Inspect the drive unit surroundings for magnetic sources of interference.• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• If you can rule out magnetic sources of interference as a possible cause, replace the drive unit.

Code:	514007	Magnetic field sensor data invalid.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Warning	Possible effects: No direct effects. Fault possible.	
Title:	Drive unit warning - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • If you can rule out magnetic sources of interference as a possible cause, replace the drive unit.
Code:	51400B	Magnetic field sensor - sensor configuration invalid.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Fault possible.	
Title:	Drive unit error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace component.
Code:	51400C	Error in the acceleration sensor of the drive unit.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Start-up behaviour impaired.	
Title:	Drive unit error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace component.
Code:	51400D	Acceleration sensor - sensor configuration invalid.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Fault possible.	
Title:	Drive unit error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace component.
Code:	51400E	Error in the position sensor of the drive unit.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Fault possible.	
Title:	Drive unit error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace component.

Code:	51400F	Position sensor - sensor configuration invalid.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Fault possible.	
Title:	Drive unit error - sensor system.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace component.
Code:	514010	Error in the position sensor of the drive unit.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Fault possible.	
Title:	Drive unit error - sensor system.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace component.
Code:	514011	Error in the position sensor of the drive unit.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Fault possible.	
Title:	Drive unit error - sensor system.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace component.
Code:	515004	Walk assistance malfunction - repeated implausible requests to the walk assistance detected.	<ul style="list-style-type: none"> Replace the tool that is requesting the walk assistance function (BRC or corresponding tool from a third-party supplier). Delete error. Restart the system twice.
Type:	Error	The walk assistance function has been locked.	
Title:	Walk assistance error.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool.
Code:	516001	Higher gear ratio than the programmed maximum value detected.	<ul style="list-style-type: none"> Check gear ratio. Load valid configuration to the eBike.
Type:	Warning		
Title:	Drive unit error - gear ratio.	The maximum gear ratio specified in the configuration does not correspond to the mechanical gear ratio.	

Code:	517001	Total kilometres - maximum value achieved. The total mileage counter cannot keep running for technical reasons and remains at this value.	<ul style="list-style-type: none"> • Delete error code. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace drive unit.
Type:	Info		
Title:	Total kilometres - maximum value achieved.		
Code:	517002	Total mileage counter - maximum value exceeded. The value has been reset to the maximum value.	<ul style="list-style-type: none"> • Delete error code. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace drive unit.
Type:	Info		
Title:	Total mileage counter - maximum value exceeded.		
Code:	518001	No support modes found. Motor support limited.	<ul style="list-style-type: none"> • Load valid production container onto the eBike.
Type:	Error		
Title:	Drive unit error - no assistance mode found.	Either there is a production error here, or updating the modes as part of a software update has failed.	
Code:	518012	Configuration has not been correctly transcribed. Assistance mode could not be transcribed, as 16 modes have already been saved.	<ul style="list-style-type: none"> • Delete error. • Ensure that the correct configuration is used (may include maximum 16 assistance modes). • Perform software update if available. • Restart the system.
Type:	Warning		
Title:	Drive unit warning - error when saving configuration.		
Code:	518013	At least one mandatory (= legally required) assistance mode is missing. Possible effects: No motor support. A faulty or unsuitable container may have been used.	<ul style="list-style-type: none"> • Delete error. • Perform software update if available. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Ensure that there is a suitable container. • If the error occurs despite an appropriate container, replace the component.
Type:	Error		
Title:	Drive unit error - required assistance mode missing.		

Code:	518014	At least one required assistance mode missing.	<ul style="list-style-type: none"> • Delete error. • Perform software update if available. • Restart the system.
Type:	Warning	A faulty or unsuitable container may have been used.	
Title:	Drive unit warning - required assistance mode missing.		If the problem persists: <ul style="list-style-type: none"> • Ensure that there is a suitable container. • If the error occurs despite an appropriate container, replace the component.
Code:	518015	Number of configured assistance modes is too high.	<ul style="list-style-type: none"> • Delete error. • Perform software update if available. • Restart the system.
Type:	Error	Possible effects: No motor support.	
Title:	Drive unit error - number of configured assistance modes too high.	A faulty or unsuitable container may have been used.	If the problem persists: <ul style="list-style-type: none"> • Ensure that there is a suitable container. • If the error occurs despite an appropriate container, replace the component.
Code:	518016	Incorrect assistance mode programmed. At least one assistance mode requires a higher version.	<ul style="list-style-type: none"> • Delete error. • Perform software update if available. • Restart the system.
Type:	Error	Limited motor support due to limp home mode.	
Title:	Drive unit error - assistance mode downgrade.	A faulty or unsuitable container may have been used.	If the problem persists: <ul style="list-style-type: none"> • Ensure that there is a suitable container. • If the error occurs despite an appropriate container, replace the component.
Code:	518017	Assistance mode - duplicate in the list of required assistance modes detected.	<ul style="list-style-type: none"> • Delete error. • Perform software update if available. • Restart the system.
Type:	Error	Limited motor support due to limp home mode.	
Title:	Drive unit error - assistance mode - duplicate found.	A faulty or unsuitable container may have been used.	If the problem persists: <ul style="list-style-type: none"> • Ensure that there is a suitable container. • If the error occurs despite an appropriate container, replace the component.

Code:	518018	Assistance mode - duplicate detected.	<ul style="list-style-type: none"> Delete error. Perform software update if available. Restart the system.
Type:	Error	Limited motor support due to limp home mode.	
Title:	Drive unit error - assistance mode - duplicate found.	A faulty or unsuitable container may have been used.	If the problem persists: <ul style="list-style-type: none"> Ensure that there is a suitable container. If the error occurs despite an appropriate container, replace the component.
Code:	518020	List of assistance modes that can be selected by the rider is empty.	<ul style="list-style-type: none"> Delete error. Perform software update if available. Restart the system.
Type:	Warning	No motor support.	
Title:	Drive unit warning - list of assistance modes that can be selected by the rider empty.	A faulty or unsuitable container may have been used.	If the problem persists: <ul style="list-style-type: none"> Ensure that there is a suitable container. If the error occurs despite an appropriate container, replace the component.
Code:	518021	List of assistance modes that can be selected by the rider contains an invalid entry.	<ul style="list-style-type: none"> Delete error. Perform software update if available. Restart the system.
Type:	Warning	The entry has been removed.	
Title:	Drive unit warning - invalid entry in list of assistance modes.	A faulty or unsuitable container may have been used.	If the problem persists: <ul style="list-style-type: none"> Ensure that there is a suitable container. If the error occurs despite an appropriate container, replace the component.
Code:	518110	Incomplete configuration of the drive unit - missing shifting configuration.	<ul style="list-style-type: none"> Use a container with suitable 'Gear Shift' parameter. Delete error.
Type:	Error	No container with suitable 'Gear Shift' parameter found.	
Title:	Drive unit error - incomplete configuration.	Possible effects: No motor support.	If the problem persists: <ul style="list-style-type: none"> If the error occurs despite an appropriate container, replace the drive unit.

Code:	518111	Faulty configuration of the drive unit - invalid configuration of shifting.	<ul style="list-style-type: none"> • Use a container with suitable 'Gear Shift' parameter. • Delete error.
Type:	Error	No container with suitable 'Gear Shift' parameter found.	If the problem persists:
Title:	Drive unit error - faulty configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.
Code:	518112	Incorrect configuration of the shifting.	<ul style="list-style-type: none"> • Use a container with suitable 'Gear Shift' parameter. • Delete error.
Type:	Error	No container with suitable 'Gear Shift' parameter found.	If the problem persists:
Title:	Drive unit error - incorrect configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.
Code:	518113	Incorrect configuration of the shifting.	<ul style="list-style-type: none"> • Use a container with suitable 'Gear Shift' parameter. • Delete error.
Type:	Error	No container with suitable 'Gear Shift' parameter found.	If the problem persists:
Title:	Drive unit error - incorrect configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.
Code:	518120	Faulty configuration of the drive unit - 'Speed' configuration parameter missing.	<ul style="list-style-type: none"> • Use a container with suitable 'Speed' parameter. • Delete error.
Type:	Error	No container with suitable 'Speed' parameter found.	If the problem persists:
Title:	Drive unit error - missing configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.
Code:	518121	Faulty configuration of the drive unit - 'Speed' configuration parameter invalid.	<ul style="list-style-type: none"> • Use a container with suitable 'Speed' parameter. • Delete error.
Type:	Error	No container with suitable 'Speed' parameter found.	If the problem persists:
Title:	Drive unit error - faulty configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.

Code:	518122	Faulty configuration of the drive unit - 'Speed' configuration parameter faulty.	<ul style="list-style-type: none"> • Use a container with suitable 'Speed' parameter. • Delete error.
Type:	Error	No container with suitable 'Speed' parameter found.	If the problem persists:
Title:	Drive unit error - incorrect configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.
Code:	518123	Faulty configuration of the drive unit - 'Speed' configuration parameter faulty.	<ul style="list-style-type: none"> • Use a container with suitable 'Speed' parameter. • Delete error.
Type:	Error	No container with suitable 'Speed' parameter found.	If the problem persists:
Title:	Drive unit error - incorrect configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.
Code:	518130	Missing configuration of the product line.	<ul style="list-style-type: none"> • Use a container with suitable 'Product line' parameter. • Delete error.
Type:	Error	No container with suitable 'Product line' parameter found.	If the problem persists:
Title:	Drive unit error - missing configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.
Code:	518131	Faulty configuration of the product line.	<ul style="list-style-type: none"> • Use a container with suitable 'Product line' parameter. • Delete error.
Type:	Error	No container with suitable 'Product line' parameter found.	If the problem persists:
Title:	Drive unit error - faulty configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.
Code:	518132	Incorrect configuration of the product line.	<ul style="list-style-type: none"> • Use a container with suitable 'Product line' parameter. • Delete error.
Type:	Error	No container with suitable 'Product line' parameter found.	If the problem persists:
Title:	Drive unit error - incorrect configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.

Code:	518133	Faulty configuration of the product line.	<ul style="list-style-type: none"> • Use a container with suitable 'Product line' parameter. • Delete error.
Type:	Error	No container with suitable 'Product line' parameter found.	If the problem persists:
Title:	Drive unit error - incorrect configuration.		<ul style="list-style-type: none"> • If the error occurs despite an appropriate container, replace the drive unit.
Code:	518201	All support modes have been deleted by XCP.	Load valid container with support modes onto the eBike.
Type:	Info		
Title:	Drive unit info - all support modes deleted by XCP.		
Code:	518202	All configuration containers have been deleted by XCP.	Load valid configuration container onto the eBike.
Type:	Info		
Title:	Drive unit info - all configuration containers deleted by XCP.		
Code:	518203	Selected support mode is not compatible with OEM XCP (cannot be changed. Support mode has been deleted.	Load other support mode onto the eBike (OEM XCP-compatible).
Type:	Info		
Title:	Drive unit info - support modes deleted because they could not be changed by the OEM.		

Code:	523001	Error in the speed sensor of the drive unit.	
Type:	Error	Possible effects: Reduced drive unit output. Speed display not functional (displays "0").	
Title:	Drive unit error - sensor system.		<ul style="list-style-type: none"> • Check the position of the magnet: For wired sensor: Check the distance to the sensor: 5–15 mm (spoke magnet), 2–8 mm (brake disk magnet), for wheel rim magnet: Check correct attachment to the valve. • Check wired sensor (< 10 ohms of electrical resistance, if the magnet is located near the sensor). • Check output voltage of the drive unit (3.0 V < U < 3.5 V at wired sensor). • Delete error code. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace component.
Code:	523004	Self-configuration of rim magnet system failed.	
Type:	Error	Possible effects: Implausible speed display. Limited support possible.	
Title:	Drive unit error - speed sensor configuration failed.		<ul style="list-style-type: none"> • Ensure that the rim magnet is fitted correctly. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool.
Code:	523005	Magnetic field of the rim magnet too weak.	
Type:	Warning	Possible effects: Implausible speed display. Limited support possible.	
Title:	Drive unit warning - sensor system.		<ul style="list-style-type: none"> • Check correct attachment to the valve. • Check possible shielding between drive unit and magnet. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace component.

Code:	523006	Error in the speed sensors of the drive unit. The measured values of both sensors differ too greatly from each other.	<ul style="list-style-type: none">• Check the position of the magnet: For wired sensor: Check the distance to the sensor: 5–15 mm (spoke magnet), 2–8 mm (brake disk magnet), for wheel rim magnet: Check correct attachment to the valve.• Check reed sensor (<10 ohms of electrical resistance, if the magnet is located near the sensor).• Check output voltage of the drive unit (3.0 V < U < 3.5 V at reed sensor).• Delete error code.• Perform software update if available.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Replace component.
Type:	Error	Possible effects: Reduced drive unit output. Speed display inaccurate.	
Title:	Drive unit error - sensor system.		
Code:	523042	Drive unit configuration error.	<ul style="list-style-type: none">• Replace drive unit.
Type:	Error	This drive unit must be replaced.	
Title:	Drive unit error - invalid configuration.		

Code:	524001	Speed signal manipulation detected.Limited motor support due to limp home mode.	<ul style="list-style-type: none">• Check that nothing has been manipulated on the eBike.• Check that the magnets are positioned correctly, and adjust if necessary.• Create a diagnostics report.• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• Replace drive unit. Note: Unlimited motor support can be restored by riding more than 90 minutes on the eBike with an unmanipulated speed signal. Note: However, as soon as the system is in normal operation again, the manipulation request is renewed. After the third recovery, limp home mode can continue to be suspended only by Bosch DiagnosticTool.
Type:	Error		
Title:	Drive unit error - manipulation detection.		
Code:	525001	Speed signal manipulation detected.Limited motor support due to limp home mode.	<ul style="list-style-type: none">• Check that nothing has been manipulated on the eBike.• Check that the magnets are positioned correctly, and adjust if necessary.• Create a diagnostics report.• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• Replace drive unit. Note: Unlimited motor support can be restored by riding more than 90 minutes on the eBike with an unmanipulated speed signal. Note: However, as soon as the system is in normal operation again, the manipulation request is renewed. After the third recovery, limp home mode can continue to be suspended only by Bosch DiagnosticTool.
Type:	Error		
Title:	Drive unit error - manipulation detection.		

Code:	525002	Speed signal manipulation detected.Limited motor support due to limp home mode.	<ul style="list-style-type: none">• Check that nothing has been manipulated on the eBike.• Check that the magnets are positioned correctly, and adjust if necessary.• Create a diagnostics report.• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool. Note: <p>Unlimited motor support can be restored by riding more than 90 minutes on the eBike with an unmanipulated speed signal.</p> Note: However, as soon as the system is in normal operation again, the manipulation request is renewed.After the third recovery, limp home mode can continue to be suspended only by Bosch DiagnosticTool.
Type:	Error		
Title:	Drive unit error - manipulation detection.		
Code:	525003	Speed signal manipulation detected.Limited motor support due to limp home mode.	<ul style="list-style-type: none">• Check that nothing has been manipulated on the eBike.• Check that the magnets are positioned correctly, and adjust if necessary.• Create a diagnostics report.• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Perform software update if available.• Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool. Note: <p>Unlimited motor support can be restored by riding more than 90 minutes on the eBike with an unmanipulated speed signal.</p> Note: However, as soon as the system is in normal operation again, the manipulation request is renewed.After the third recovery, limp home mode can continue to be suspended only by Bosch DiagnosticTool.
Type:	Error		
Title:	Drive unit error - manipulation detection.		

Code:	525004		
Type:	Error	Speed signal manipulation detected.Limited motor support due to limp home mode.	
Title:	Drive unit error - manipulation detection.		
			<ul style="list-style-type: none"> • Check that nothing has been manipulated on the eBike. • Check that the magnets are positioned correctly, and adjust if necessary. • Create a diagnostics report. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool. <p>Note:</p> <p>Unlimited motor support can be restored by riding more than 90 minutes on the eBike with an unmanipulated speed signal.</p> <p>Note: However, as soon as the system is in normal operation again, the manipulation request is renewed.</p> <p>After the third recovery, limp home mode can continue to be suspended only by Bosch DiagnosticTool.</p>
Code:	530001	This eBike is configured for operation with an on-board computer. No on-board computer is detected.	
Type:	Error	Possible effects: Motor support switched off.	
Title:	Error - on-board computer missing.		
			<ul style="list-style-type: none"> • Ensure that the on-board computer is correctly connected to the system. • Check on-board computer and cabling. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Carry out on-board computer test through replacement. • Replace component.
Code:	531005	Drive unit configuration error.	
Type:	Error	This drive unit must be replaced.	
Title:	Drive unit error - invalid configuration.		
			<ul style="list-style-type: none"> • Replace drive unit.

Code:	534001	Drive unit error - certificate error.	• Replace drive unit.
Type:	Error	Possible effects: Integration in system not possible, so cannot function.	
Title:	Drive unit error - internal communication error.	There is either a production error here or the certificate has been deleted.	
Code:	534002	Drive unit error - certificate error.	• Replace drive unit.
Type:	Error	Possible effects: Integration in system not possible, so cannot function.	
Title:	Drive unit error - internal communication error.	There is either a production error here or the private-public key pair has been deleted.	
Code:	534003	Drive unit error - certificate error.	• Replace drive unit.
Type:	Error	Possible effects: Integration in system not possible, so cannot function.	
Title:	Drive unit error - internal communication error.	There is either a production error here or the certificate has been deleted.	
Code:	534004	Drive unit error - certificate error.	• Replace drive unit.
Type:	Error	Possible effects: It is not possible to perform a software update.	
Title:	Drive unit error - internal communication error.	There is either a production error here or the certificate has been deleted.	
Code:	534005	Drive unit error - certificate error.	• Replace drive unit.
Type:	Error	Possible effects: It is not possible to perform a software update.	
Title:	Drive unit error - internal communication error.	There is either a production error here or the certificate has been deleted.	

Code:	534006	Drive unit error - certificate error.	• Replace drive unit.
Type:	Error	Possible effects: It is not possible to perform a software update. No configuration changes possible. No motor support.	
Title:	Drive unit error - internal communication error.	There is either a production error here or the certificate has been deleted.	
Code:	534007	Drive unit error - certificate error.	• Replace drive unit.
Type:	Error	Possible effects: It is not possible to perform a software update. No configuration changes possible. No motor support.	
Title:	Drive unit error - internal communication error.	There is either a production error here or the certificate has been deleted.	
Code:	539001	Drive unit communication error.	• Check cabling. • Delete error. • Restart the system.
Type:	Error		
Title:	Drive unit error - communication error.		If the problem persists: • Perform software update if available. • Replace drive unit.
Code:	540001	Temperature monitoring deactivated.	• Delete error. • Restart.
Type:	Error	Possible effects: Drive unit may be damaged.	
Title:	Drive unit error - temperature monitoring.		If the problem persists: • Perform software update if available. • Replace component.
Code:	540022	Drive unit internal temperature error - temperature over 80 °C.	• Switch off system to cool down drive unit. • Delete error. • Restart the system.
Type:	Warning	Possible effects: Motor support is switched off.	
Title:	Drive unit warning - temperature too high.		If the problem persists: • Replace component.

Code:	542001	Configuration error. The current gear is outside the configured values.	
Type:	Warning		
Title:	Drive unit warning - transmission.	Possible effects: Lack of support or limited support possible. Walk assistance function limited.	<ul style="list-style-type: none"> • Check whether mechanical changes to gear shifting have been made (sprocket, gear rim or entire gearing replaced). • The programmed values for the minimum and maximum gear ratios are no longer correct and must be reconfigured. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • If you have made sure that the gearing is correctly installed and the minimum and maximum gear ratios are correctly configured, replace the drive unit.
Code:	542002	Configuration error.	
Type:	Error	The maximum gear ratio is not programmed.	
Title:	Drive unit error - transmission.	Possible effects: Lack of support or limited support possible. Walk assistance function limited.	<ul style="list-style-type: none"> • Check whether mechanical changes to gear shifting have been made (sprocket, gear rim or entire gearing replaced). • The programmed value for the maximum gear ratio is no longer correct and must be reconfigured. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace component.
Code:	550001	This eBike is configured such that the lighting must always be switched on.	
Type:	Error		
Title:	Drive unit error - lighting.	However, an absence of lighting has been detected.	<ul style="list-style-type: none"> • Check lighting and cabling. • Carry out lighting test in Bosch DiagnosticTool. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Contact the Bosch eBike service hotline after sending a report from the DiagnosticTool.

Code:	566001	Warning! Sample hardware and software detected on the drive unit. Sample hardware is not intended for sale!	• Replace drive unit.
Type:	Warning		
Title:	Drive unit error - sample hardware and software detected.		
Code:	566002	Warning! Sample hardware detected on the drive unit. Sample hardware is not intended for sale!	• Replace drive unit.
Type:	Warning		
Title:	Drive unit error - sample hardware detected.		
Code:	566003	Warning! Sample software detected on the drive unit. Sample hardware is not intended for sale!	• Perform software update if available. • Delete error. • Restart the system. If the problem persists: • Replace drive unit.
Type:	Warning		
Title:	Drive unit error - sample software detected.		
Code:	566100	Invalid hardware configuration on drive unit. Possible effects: No motor support, no connection to control unit, light and ABS not functioning (if installed).	• Delete error. • Restart the system. If the problem persists: • Perform software update if available. • Replace drive unit.
Type:	Error		
Title:	Drive unit error - invalid hardware configuration.		

3 Battery

ERROR - IDENTIFIER	ERROR DESCRIPTION	COUNTER MEASURES
Code: 610001 Type: Warning Title: Battery error - sample software detected.	Warning! Sample software detected on the battery.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system. If the problem persists: <ul style="list-style-type: none"> • Replace the battery.
Code: 610002 Type: Warning Title: Battery error - sample hardware detected.	Warning! Sample hardware detected on the battery. Sample hardware is not intended for sale!	<ul style="list-style-type: none"> • Replace the battery.
Code: 610004 Type: Error Title: Battery error - invalid configuration.	Battery configuration error. This battery must be replaced.	<ul style="list-style-type: none"> • Replace the battery.
Code: 610005 Type: Error Title: Battery error - invalid software version.	Battery software error - invalid software version. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	610006	Battery software error - software error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - software error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	610007	Battery software error - the software is not compatible with the battery hardware.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - software compatibility error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	610008	Battery software error - missing serial number.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - missing serial number.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	610009	Battery software error - internal software error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Warning	No system effects.	If the problem persists:
Title:	Battery warning - software error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	61000A	Battery software error - internal software error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Warning	No system effects.	If the problem persists:
Title:	Battery warning - software error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	61000D	Battery software error - software error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Internal battery error - software error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	620001	Battery current monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - current monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	620002	Excessively high charging current detected during charging process. Charging process cancelled.	<ul style="list-style-type: none"> • Ensure that the original Bosch charger is used. • Delete error. • Restart the system.
Type:	Error		If the problem persists:
Title:	Battery error - charging current too high.		<ul style="list-style-type: none"> • Check that the charger is working properly. • Perform software update if available. • Replace the battery.
Code:	620003	Power consumption too high. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Check additional loads. • Delete error. • Restart the system.
Type:	Error		If the problem persists:
Title:	Battery error - discharging current too high.		<ul style="list-style-type: none"> • Perform software update if available. • Test battery through replacement. • Test drive unit through replacement. • Replace the battery.

Code:	620004	Discharging current detected during charging process. Charging process cancelled.	<ul style="list-style-type: none"> • Ensure that the original Bosch charger is used. • Check any additional loads that may be present. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Check that the charger is working properly. • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - discharging current measured during charging process.		
Code:	620005	Current direction error detected. System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - charging current measured during discharge process.		
Code:	620006	Battery current monitoring sensor error (measured value is implausibly high). Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - current monitoring.		
Code:	620007	Battery current monitoring sensor error (measured value is implausibly low). Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - current monitoring.		
Code:	620008	Current monitoring error - internal current too high. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - current monitoring.		

Code:	620009	Battery current monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - current monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	62000A	Battery current monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - current monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	62000B	Excessively high charging current detected during charging process. Charging process cancelled.	<ul style="list-style-type: none"> • Ensure that the original Bosch charger is used. • Delete error. • Restart the system.
Type:	Error		If the problem persists:
Title:	Battery error - charging current too high.		<ul style="list-style-type: none"> • Check that the charger is working properly. • Perform software update if available. • Replace the battery.
Code:	62000C	Excessively high discharging current detected during discharge process. Discharge process cancelled.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error		If the problem persists:
Title:	Battery error - discharging current too high.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	62000D	Discharging current detected during charging process. Charging process cancelled.	<ul style="list-style-type: none"> • Ensure that the original Bosch charger is used. • Check any additional loads that may be present. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Check that the charger is working properly. • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - discharging current measured during charging process.		
Code:	62000E	Current direction error detected. System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - charging current measured during discharge process.		
Code:	62000F	Battery current monitoring sensor error (measured value is implausibly high). Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - current monitoring.		
Code:	620010	Current monitoring error - internal current too low. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - current monitoring.		
Code:	620011	Current monitoring error - internal current too high. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Check any additional loads that may be present. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - current monitoring.		

Code:	620012	Current monitoring error - short circuit detected.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - current monitoring.		<ul style="list-style-type: none"> Check for loose connections. After ruling these out, proceed as follows: Test through replacement: Battery -> cable -> drive unit Perform software update if available. Replace the battery.
Code:	620013	Current monitoring error - current flow error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - current monitoring.		<ul style="list-style-type: none"> Test drive unit through replacement. Perform software update if available. Replace the battery.
Code:	620014	Current monitoring error - power demand by the drive unit in derating mode is too high.	<ul style="list-style-type: none"> Switch off the system and wait at least 15 minutes. Let the battery cool down if necessary. Delete error. Restart the system.
Type:	Warning	Possible effects: No motor support.	If the problem persists:
Title:	Battery warning - current monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	620015	Current monitoring error - short circuit detected.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - current monitoring.		<ul style="list-style-type: none"> Check for loose connections. After ruling these out, proceed as follows: Test through replacement: Battery -> cable -> drive unit Perform software update if available. Replace the battery.

Code:	630001	Internal battery error.	<ul style="list-style-type: none">• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Replace the battery.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		
Code:	630002	Internal battery error.	<ul style="list-style-type: none">• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Replace the battery.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		
Code:	630003	Internal battery error.	<ul style="list-style-type: none">• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Replace the battery.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		
Code:	630004	Internal battery error.	<ul style="list-style-type: none">• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Replace the battery.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		
Code:	630005	Internal battery error.	<ul style="list-style-type: none">• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Replace the battery.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		
Code:	630006	Internal battery error.	<ul style="list-style-type: none">• Delete error.• Restart the system. If the problem persists: <ul style="list-style-type: none">• Replace the battery.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		

Code:	630007	Internal battery error.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - internal error.		If the problem persists: • Replace the battery.
Code:	630008	Internal battery error.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - internal error.		If the problem persists: • Replace the battery.
Code:	630009	Internal battery error.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - internal error.		If the problem persists: • Replace the battery.
Code:	63000A	Internal battery error.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - internal error.		If the problem persists: • Replace the battery.
Code:	63000B	Internal battery error.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - internal error.		If the problem persists: • Replace the battery.

Code:	63000C	Battery error - battery switch pressed continuously.	<ul style="list-style-type: none"> • Check whether the battery switch is stuck or if it is being pressed continuously. • Check the OE switch cover. • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the battery.
Code:	63000D	Internal battery error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the battery.
Code:	63000E	Internal battery error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the battery.
Code:	63000F	Internal battery error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the battery.
Code:	630010	Internal battery error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> • Replace the battery.

Code:	640001	Internal battery error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	640002	Internal battery error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	650001	Internal battery error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - internal error.		If the problem persists: <ul style="list-style-type: none"> • Replace the battery.
Code:	660001	Internal battery error - short circuit.	<ul style="list-style-type: none"> • Dispose of the battery properly. • Replace the battery.
Type:	Critical Error	Possible effects: System will shut down.	
Title:	Critical battery error - short circuit.	Warning! There is voltage across the connections. Note: LEDs 2 and 4 will flash.	
Code:	660002	Internal battery error - short circuit.	<ul style="list-style-type: none"> • Dispose of the battery properly. • Replace the battery.
Type:	Critical Error	Possible effects: System will shut down.	
Title:	Critical battery error - short circuit.	Warning! There is voltage across the connections. Note: LEDs 2 and 4 will flash.	

Code:	660003	Internal battery error - short circuit.	<ul style="list-style-type: none"> Restart the battery. Delete error. Restart the system.
Type:	Error	Possible effects: System cannot be switched on.	
Title:	Battery error - short circuit.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Deactivate the battery and dispose of it properly. Replace the battery.
Code:	670001	Charging process could not be started.	<ul style="list-style-type: none"> Disconnect the battery from the charger. Delete error. Restart the system. Connect the charger.
Type:	Error		
Title:	Battery error - charging process.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Use another charger in order to rule out charger errors. Perform software update if available. Replace the battery.
Code:	670002	More than one charger was connected to the system at the same time. This is not permitted.	<ul style="list-style-type: none"> Disconnect all chargers from the system. Delete error. Restart the system. Connect exactly one charger.
Type:	Error		
Title:	Battery error - more than one charger connected.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	670003	More than one battery detected in the system. This Bosch eBike is designed for operation with only one battery.	<ul style="list-style-type: none"> Ensure that exactly one battery only is connected to the system. Delete error. Restart the system.
Type:	Error		
Title:	Battery error - more than one battery detected.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the battery.

Code:	670004	The switch-off process has exceeded the specified duration.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - switch-off process is taking too long.		
Code:	670005	Warning! Sample hardware detected on the battery charger. Sample hardware is not intended for sale!	<ul style="list-style-type: none"> • Replace the battery charger.
Type:	Info		
Title:	Battery charger error - sample hardware detected.		
Code:	680001	Battery temperature sensor error (measured value is implausibly low). Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - sensor system.		
Code:	680002	Battery temperature too low. Possible effects: No motor support. System will switch off.	<ul style="list-style-type: none"> • Leave the battery in a warmer environment for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too low.		
Code:	680003	Battery temperature too high. Possible effects: No motor support. System will switch off.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too high.		

Code:	680004	Battery temperature sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - sensor system.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	680005	Battery temperature sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - sensor system.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	680006	Battery temperature too low.	<ul style="list-style-type: none"> • Leave the battery in a warmer environment for at least two hours. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	If the problem persists:
Title:	Battery error - temperature too low.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	680007	Battery temperature too low during charging process. Battery will not be charged. System will shut down.	<ul style="list-style-type: none"> • Leave the battery in a warmer environment for at least two hours. • Delete error. • Restart the system.
Type:	Error		If the problem persists:
Title:	Battery error - temperature too low during charging process.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	680008	Battery temperature too high.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Battery error - temperature too high.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	680009	Battery temperature too high during charging process. Battery will not be charged. System will shut down.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system.
Type:	Error		
Title:	Battery error - temperature too high during charging process.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	68000A	Battery temperature sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	68000B	Battery temperature sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	68000C	Battery temperature too low.	<ul style="list-style-type: none"> • Leave the battery in a warmer environment for at least two hours. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Battery error - temperature too low.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	68000D	Battery temperature too low.	<ul style="list-style-type: none"> • Leave the battery in a warmer environment for at least two hours. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Battery error - temperature too low.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	68000E	Battery temperature too high.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Battery error - temperature too high.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	68000F	Battery temperature too high.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Battery error - temperature too high.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	680010	Battery temperature sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	680011	Battery temperature sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - sensor system.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	680012	Battery temperature too low during charging process. Battery will not be charged. System will shut down.	<ul style="list-style-type: none"> • Leave the battery in a warmer environment for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too low during charging process.		
Code:	680013	Battery temperature too low. Possible effects: No motor support. System will switch off.	<ul style="list-style-type: none"> • Leave the battery in a warmer environment for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too low.		
Code:	680014	Battery temperature too low during charging process. Battery will not be charged. System will shut down.	<ul style="list-style-type: none"> • Leave the battery in a warmer environment for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too low during charging process.		
Code:	680015	Battery temperature too low. Possible effects: No motor support. System will switch off.	<ul style="list-style-type: none"> • Leave the battery in a warmer environment for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too low.		

Code:	680016	Battery temperature too high during charging process. Battery will not be charged. System will shut down.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too high during charging process.		
Code:	680017	Battery temperature too high during charging process. Battery will not be charged. System will shut down.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too high during charging process.		
Code:	680019	Battery temperature too high. Possible effects: No motor support. System will switch off.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too high.		
Code:	68001A	Battery temperature too high. Possible effects: No motor support. System will switch off.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - temperature too high.		
Code:	68001B	Battery temperature sensor error (measured value is implausibly high). Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - sensor system.		

Code:	68001C	Battery temperature too high.	<ul style="list-style-type: none"> • Allow the battery to cool down for at least two hours. • Delete error. • Restart the system.
Type:	Error	Possible effects: No motor support. System will switch off.	
Title:	Battery error - temperature too high.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690001	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690002	Voltage monitoring error - external voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690003	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690004	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	690005	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690006	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690007	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690008	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690009	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	69000A	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	69000B	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	69000C	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	69000D	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	69000E	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	69000F	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690010	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690011	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690012	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690013	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.

Code:	690014	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690015	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690016	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690017	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690018	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	690019	Battery voltage monitoring sensor error (measured value is implausibly low).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690020	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690021	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690022	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690023	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	690024	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690025	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690026	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690027	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690028	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	690029	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690030	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690031	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690032	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690033	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	690034	Voltage monitoring error - internal voltage too low.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - voltage monitoring.		If the problem persists: • Perform software update if available. • Replace the battery.
Code:	690035	Voltage monitoring error - internal voltage too low.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - voltage monitoring.		If the problem persists: • Perform software update if available. • Replace the battery.
Code:	690036	Voltage monitoring error - internal voltage too low.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - voltage monitoring.		If the problem persists: • Perform software update if available. • Replace the battery.
Code:	690037	Voltage monitoring error - internal voltage too low.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - voltage monitoring.		If the problem persists: • Perform software update if available. • Replace the battery.
Code:	690038	Voltage monitoring error - internal voltage too low.	• Delete error.
Type:	Error	Possible effects: System will shut down.	• Restart the system.
Title:	Battery error - voltage monitoring.		If the problem persists: • Perform software update if available. • Replace the battery.

Code:	690039	Voltage monitoring error - internal voltage too low.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690040	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690041	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690042	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690043	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	
Title:	Battery error - voltage monitoring.		If the problem persists: <ul style="list-style-type: none"> Perform software update if available. Replace the battery.

Code:	690044	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690045	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690046	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690047	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690048	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	690049	Voltage monitoring error - internal voltage too high. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - voltage monitoring.		
Code:	690050	Voltage monitoring error - internal voltage too high. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - voltage monitoring.		
Code:	690051	Voltage monitoring error - internal voltage too high. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - voltage monitoring.		
Code:	690052	Voltage monitoring error - internal voltage too high. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - voltage monitoring.		
Code:	690053	Voltage monitoring error - internal voltage too high. Possible effects: System will shut down.	<ul style="list-style-type: none"> • Delete error. • Restart the system. <p>If the problem persists:</p> <ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Type:	Error		
Title:	Battery error - voltage monitoring.		

Code:	690054	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690055	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690056	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690057	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690058	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	690059	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690060	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690061	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690062	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690063	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.

Code:	690064	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690065	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690066	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690067	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.
Code:	690068	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the battery.

Code:	690069	Battery voltage monitoring sensor error (measured value is implausibly high).	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690070	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690071	Voltage monitoring error - cell imbalance too high.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690072	Voltage monitoring error - deep discharge.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.
Code:	690073	Voltage monitoring error - internal voltage too high.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: System will shut down.	If the problem persists:
Title:	Battery error - voltage monitoring.		<ul style="list-style-type: none"> Perform software update if available. Replace the battery.

Code:	690074	Voltage monitoring error - difference between the internal voltage and the sum of the individual cell voltages is too high.	• Delete error. • Restart the system.
Type:	Error		If the problem persists:
Title:	Battery error - voltage monitoring.	Possible effects: System will shut down.	• Perform software update if available. • Replace the battery.

4 On-board computer

ERROR - IDENTIFIER	ERROR DESCRIPTION	COUNTER MEASURES
Code: 400001 Type: Warning Title: Display warning - sample software detected.	Warning! Sample software detected on the display.	<ul style="list-style-type: none"> • Perform software update if available. • Delete error. • Restart the system. If the problem persists: <ul style="list-style-type: none"> • Replace the display.
Code: 400002 Type: Warning Title: Display error - sample hardware detected.	Warning! Sample hardware detected on the display. Sample hardware is not intended for sale!	<ul style="list-style-type: none"> • Replace the display.
Code: 400003 Type: Warning Title: Display error - sample hardware and software detected.	Warning! Sample hardware and software detected on the display. Sample hardware is not intended for sale!	<ul style="list-style-type: none"> • Replace the display.
Code: 420001 Type: Warning Title: Display warning - temperature too low.	Display temperature too low. Possible effects: Slow response to user inputs. Possible incorrect presentation on the display (display artefacts).	<ul style="list-style-type: none"> • Put the eBike (or the display) in a warmer environment. • Delete error. • Restart the system. If the problem persists: <ul style="list-style-type: none"> • Perform software update if available. • Replace the display.

Code:	420002	Display temperature high.	<ul style="list-style-type: none"> Put the eBike (or the display) in a cooler environment and allow it to cool down for at least 15 minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Warning	Possible effects: Possible incorrect presentation on the display (display artefacts).	<ul style="list-style-type: none"> Delete error. Restart the system.
Title:	Display warning - temperature high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	420003	Internal software error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Possible incorrect presentation on the display (display artefacts). Display remains black.	<ul style="list-style-type: none"> Delete error. Restart the system.
Title:	Display error - display error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	430004	Display internal error.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Display is switched off.	<ul style="list-style-type: none"> Delete error. Restart the system.
Title:	Display error - overvoltage.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Check cabling and base. Check the power connection to the drive unit. Replace the display. Check/replace drive unit.
Code:	430005	Undervoltage in display supply.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Display is switched off.	<ul style="list-style-type: none"> Delete error. Restart the system.
Title:	Display error - power supply.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Check cabling and base. Check the power connection to the drive unit. Replace the display. Check/replace drive unit.

Code:	430006	Display temperature too high.	<ul style="list-style-type: none"> Put the eBike (or the display) in a cooler environment and allow it to cool down for at least 15 minutes (avoid direct sunlight). Delete error. Restart the system.
Type:	Error	Possible effects: Display is switched off.	
Title:	Display error - temperature too high.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	430102	Hardware error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Proper functioning cannot be guaranteed. Display remains black.	
Title:	Display error - hardware error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	431003	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Error-free functioning cannot be guaranteed. Display remains black.	
Title:	Display error - software error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	431101	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Error-free functioning cannot be guaranteed. Display remains black.	
Title:	Display error - software error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	431201	Software error on the display.	<ul style="list-style-type: none"> Clean the brightness sensor. Delete error. Restart the system.
Type:	Error	Possible effects: Backlight does not function properly.	
Title:	Display error - brightness sensor software error.		<p>If the problem persists:</p> <ul style="list-style-type: none"> Perform software update if available. Replace the display.

Code:	431301	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Backlight does not function properly.	If the problem persists:
Title:	Display error - backlight software error.		<ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	431401	Communication error on the display.	<ul style="list-style-type: none"> Ensure that the display sits correctly on the base, clean the contacts and check the cabling. Delete error. Restart the system.
Type:	Error	Possible effects: It is not possible to communicate with the system.	If the problem persists:
Title:	Display error - communication error.		<ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	431501	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Proper functioning cannot be guaranteed. Display remains black.	If the problem persists:
Title:	Display error - software error.		<ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	431601	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Proper functioning cannot be guaranteed. Display remains black.	If the problem persists:
Title:	Display error - software error.		<ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	431801	Software error on the display.	<ul style="list-style-type: none"> Delete error. Perform software update.
Type:	Error	Possible effects: Display is not functional. Display remains black.	If the problem persists:
Title:	Display error - software update failed.		<ul style="list-style-type: none"> Replace the display.

Code:	431901	Software error on the display.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Backlight does not function properly.	If the problem persists:
Title:	Display error - backlight.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.
Code:	431A01	Software error on the display.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Display is not functional.	If the problem persists:
Title:	Display error - software error.	Various malfunctions are possible.	<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.
Code:	431B01	Software error on the display.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Graphics are missing or incorrectly shown on the display.	If the problem persists:
Title:	Display error - software error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.
Code:	431C01	Internal software error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Possible incorrect presentation on the display (display artefacts). Display remains black.	If the problem persists:
Title:	Display error - display error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.
Code:	431D01	Internal software error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Incorrect display on the display.	If the problem persists:
Title:	Display error - display error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.

Code:	431E01	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Proper functioning cannot be guaranteed.	If the problem persists:
Title:	Display error - software error.		<ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	431F01	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Proper functioning cannot be guaranteed.	If the problem persists:
Title:	Display error - software error.	Display remains black.	<ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	432001	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Tool is not functional. Display remains black.	If the problem persists:
Title:	Display error - software error.		<ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	432101	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: Error-free functioning cannot be guaranteed.	If the problem persists:
Title:	Display error - software error.		<ul style="list-style-type: none"> Perform software update if available. Replace the display.
Code:	434004	Software error on the display.	<ul style="list-style-type: none"> Delete error. Restart the system.
Type:	Error	Possible effects: It is not possible to communicate with ABS components.	If the problem persists:
Title:	Display error - communication with ABS.		<ul style="list-style-type: none"> Perform software update if available. Replace the display.

Code:	434104	Software error on the display.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Backlight does not function without error.	If the problem persists:
Title:	Display error - backlight software error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.
Code:	434304	Software error on the display - memory error.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Settings lost. Various malfunctions are possible.	If the problem persists:
Title:	Display error - software error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.
Code:	434404	Software error on the display.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Error-free functioning cannot be guaranteed. Display remains black.	If the problem persists:
Title:	Display error - software error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.
Code:	434504	Software error on the display.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: Tool cannot be switched on properly. Tool turns itself off.	If the problem persists:
Title:	Display error - power supply software error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.
Code:	440001	Communication error on the display.	<ul style="list-style-type: none"> • Delete error. • Restart the system.
Type:	Error	Possible effects: It is not possible to communicate with the system.	If the problem persists:
Title:	Display error - communication error.		<ul style="list-style-type: none"> • Perform software update if available. • Replace the display.