

Diagnostic trouble code list



NOTE! This information is only available in English.

Node	DTC ISO	FailureEvent	FTB_Name	FuncBehviorDesc	PossibleRootCause	ProcedureEraseConfirmedDtc	ProposedWorkshopAction	ProprietaryName
ABS	C100001	Hardware fault is detected by wheel speed input circuit of the ECU.	General Electrical Failure	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Damage of the wheel speed sensor wiring or connector, wheel speed sensor or its wiring shorted to ground or supply	Diagnostic Service 14. No additional action is needed.	"Check the cables and connectors between ECU and wheel speed sensor for short-circuits and open-circuits. Disconnect wheel speed sensor from ECU. 1. Measure resistance of sensor and cabling. Resistance must be between 800 ... 2000 Ohm. -> Change Sensor or wiring if out of range 2. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. -> Change Sensor or wiring if out of range"	Wheel Speed Sensor 1
ABS	C100025	If the minimum measurable wheel speed is above its limit value, then fault is set. (Limit speed is 10 [km/h])	Signal Shape / Waveform Failure	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Large airgap, dirty tone wheel, toggling tone wheel, damaged tone wheel (missing or destroyed tone wheel teeth)	Diagnostic Service 14. No additional action is needed.	"Check and correct air gap between wheel speed sensor and tone wheel by measuring the wheel speed signal. (Wheel speed sensor signal must be higher than 100mV peak at wheel speed of about 3-4km/h). Check the cables and connectors between ECU and wheel speed sensor for short-circuits and open-circuits. Measure resistance of Sensor and cabling. Resistance must be between 800 2000 Ohm. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. If possible: Check tone wheel by checking wheel speed sensor signal for correct wave(Not possible to define the correct waveform) form according the specification for wheel speed sensor wave form or check tone wheel for dirt and metallic particles, for wobble, for pitch error, for the correct number of teeth. Check wheel speed sensor mounting."	Wheel Speed Sensor 1
ABS	C100029	ABS activation frequency on wheel is implausible	Signal invalid	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Large airgap, dirty tone wheel, missing or destroyed tone wheel teeth, toggling tone wheel, production-failures of tone wheel, damaged wheel speed sensor, wheel speed sensor mounting	Diagnostic Service 14. No additional action is needed.	"Check the tone wheel for dirt and metallic particles, for wobble, for pitch error, for the correct number of teeth. Check wheel speed sensor mounting (Check ""klämhy/sa""). Check the cables and connectors between ECU and wheel speed sensor for short-circuits and open-circuits. Measure resistance of Sensor and cabling. Resistance must be between 800 ... 2000 Ohm. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. Do waveform check with oscilloscope. Check and correct air gap between wheel speed sensor and tone wheel by measuring the wheel speed signal. (Wheel speed sensor signal must be higher than 100mV peak at wheel speed of about 3-5km/h)."	Wheel Speed Sensor 1
ABS	C10002F	Plausibility test for the wheel speed sensor signal frequency (frequency jumps)	Signal Erratic	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Large airgap, dirty tone wheel, missing or destroyed tone wheel teeth, toggling tone wheel, production-failures of tone wheel, damaged wheel speed sensor, wheel speed sensor mounting	Diagnostic Service 14. No additional action is needed.	"Check the tone wheel for dirt and metallic particles, for wobble, for pitch error, for the correct number of teeth. Check wheel speed sensor mounting (Check ""klämhy/sa""). Check the cables and connectors between ECU and wheel speed sensor for short-circuits and open-circuits. Measure resistance of Sensor and cabling. Resistance must be between 800 ... 2000 Ohm. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. Do waveform check with oscilloscope. Check and correct air gap between wheel speed sensor and tone wheel by measuring the wheel speed signal. (Wheel speed sensor signal must be higher than 100mV peak at wheel speed of about 3-5km/h)."	Wheel Speed Sensor 1

Node	DTC ISO	FailureEvent	FTB_Name	FuncBehaviorDesc	PossibleRootCause	ProcedureEraseConfirmedDtc	ProposedWorkshopAction	ProprietaryName
ABS	C100031	If a not plausible drop of the wheel speed signal happens (or signal is frequently jumping between above 11[km/h] and zero), error is set.	No Signal	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	"Damage of cables or connectors (Short circuit between H and L) Too large airgap between tone wheel and wheel speed sensor; damage of mounting, damaged or wrong tone wheel, damaged wheel speed sensor or ECU electronic circuit"	Diagnostic Service 14. No additional action is needed.	"Check the cables and connectors between ECU and wheel speed sensor for short-circuits (between H and L) and open-circuits. Measure Voltage between ECU GND and wheel speed sensor (any pin) Voltage must in range 0.5-4.3V. Disconnect wheel speed sensor from ECU. Measure resistance of Sensor and cabling. Resistance must be between 800 2000 Ohm. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. Check and correct air gap between wheel speed sensor and tone wheel by measuring the wheel speed signal (Wheel speed sensor signal must be higher than 100mV peak to peak at wheel speed of about 3-5km/h)."	Wheel Speed Sensor 1
ABS	C100038	The error is set if the current wheel speed differs (>25%) from the average of the other wheels for a long time.	Signal Frequency Incorrect	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Tyre with wrong circumference is mounted, wrong tone wheel, puncture of the tyre, continuous brake force on a wheel without brake activated by ABS. Damage in the wiring and/or connectors between WSS and ECU. Undetected fault of the wheel speed sensor, too big airgap (dropped out wheel speed sensor)	Diagnostic Service 14. No additional action is needed.	Check tire and check the brakes. If error still active, check Wheel speed sensors by driving and monitoring. Wheel speed shall not differ more than 25 % - check tone wheel	Wheel Speed Sensor 1
ABS	C100054	The deviation between the learned wheel circumferences and the EOL programmed values are too large (deviation > 25%).	Missing Calibration	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Tyre with wrong circumference is mounted on one of the axles, wrong calibration of C3-signal, tachograph not calibrated, wrong parameter for wheel circumference, number of teeth of tone wheel.	Diagnostic Service 14. No additional action is needed.	"Check if tire size of all tires is according vehicle specification. Check C3 Signal calibration, check tachograph for additional faultcodes. Check number of teeth on tone wheel on all wheels. (Check tire size of all tires in data set.) V3P to check"	Wheel Speed Sensor 1
ABS	C100101	Hardware fault is detected by wheel speed input circuit of the ECU.	General Electrical Failure	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Damage of the wheel speed sensor wiring or connector, wheel speed sensor or its wiring shorted to ground or supply	Diagnostic Service 14. No additional action is needed.	"Check the cables and connectors between ECU and wheel speed sensor for short-circuits and open-circuits. Disconnect wheel speed sensor from ECU. 1. Measure resistance of Sensor and cabling. Resistance must be between 800 2000 Ohm. -> Change Sensor or wiring if out of range 2. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. -> Change Sensor or wiring if out of range"	Wheel Speed Sensor 2

Node	DTC ISO	FailureEvent	FTB_Name	FuncBehaviorDesc	PossibleRootCause	ProcedureEraseConfirmedDtc	ProposedWorkshopAction	ProprietaryName
ABS	C100125	If the minimum measurable wheel-speed is above its limit value, then fault is set. (Limit speed is 10 (km/h))	Signal Shape / Waveform Failure	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Large airgap, dirty tone wheel, toggling tone wheel, damaged tone wheel (missing or destroyed tone wheel teeth)	Diagnostic Service 14. No additional action is needed.	"Check and correct air gap between wheel speed sensor and tone wheel by measuring the wheel speed signal. (Wheel speed sensor signal must be higher than 100mV peak to peak at wheel speed of about 3-4km/h). Check the cables and connectors between ECU and wheel-speed sensor for short-circuits and open-circuits. Measure resistance of Sensor and cabling. Resistance must be between 800 2000 Ohm. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. If possible: Check tone wheel by checking wheel speed sensor signal for correct wave(Not possible to define the correct waveform) form according the specification for wheel speed sensor wave form or check tone wheel for dirt and metallic particles, for wobble, for pitch error, for the correct number of teeth. Check wheel speed sensor mounting."	Wheel Speed Sensor 2
ABS	C100129	ABS activation frequency on wheel is implausible	Signal invalid	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Large airgap, dirty tone wheel, missing or destroyed tone wheel teeth, toggling tone wheel, production-failures of tone wheel, damaged wheel speed sensor, wheel speed sensor mounting	Diagnostic Service 14. No additional action is needed.	"Check the tone wheel for dirt and metallic particles, for wobble, for pitch error, for the correct number of teeth. Check wheel speed sensor mounting (Check ""kiämhyisa""). Check the cables and connectors between ECU and wheel-speed sensor for short-circuits and open-circuits. Measure resistance of Sensor and cabling. Resistance must be between 800 ... 2000 Ohm. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. Do waveform check with oscilloscope. Check and correct air gap between wheel speed sensor and tone wheel by measuring the wheel speed signal. (Wheel speed sensor signal must be higher than 100mV peak to peak at wheel speed of about 3-5km/h)."	Wheel Speed Sensor 2
ABS	C10012F	Plausibility test for the wheel speed sensor signal frequency (frequency jumps)	Signal Erratic	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	Large airgap, dirty tone wheel, missing or destroyed tone wheel teeth, toggling tone wheel, production-failures of tone wheel, damaged wheel speed sensor, wheel speed sensor mounting	Diagnostic Service 14. No additional action is needed.	"Check the tone wheel for dirt and metallic particles, for wobble, for pitch error, for the correct number of teeth. Check wheel speed sensor mounting (Check ""kiämhyisa""). Check the cables and connectors between ECU and wheel-speed sensor for short-circuits and open-circuits. Measure resistance of Sensor and cabling. Resistance must be between 800 ... 2000 Ohm. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. Do waveform check with oscilloscope. Check and correct air gap between wheel speed sensor and tone wheel by measuring the wheel speed signal. (Wheel speed sensor signal must be higher than 100mV peak to peak at wheel speed of about 3-5km/h)."	Wheel Speed Sensor 2
ABS	C100131	"If a not plausible drop of the wheel speed signal happens (or signal is frequently jumping between above 11[km/h] and zero), error is set."	No Signal	ABS Function: Limited values used as outputs or limited functionality, some calculations not executed EBD Function: Limited values used as outputs or limited functionality, some calculations not executed	"Damage of cables or connectors (Short circuit between H and L) Too large airgap between tone wheel and wheel speed sensor, damage of wheel speed sensor mounting, damaged or wrong tone wheel, damaged wheel speed sensor or ECU electronic circuit"	Diagnostic Service 14. No additional action is needed.	"Check the cables and connectors between ECU and wheel-speed sensor for short-circuits (between H and L) and open-circuits. Measure Voltage between ECU GND and wheel speed sensor (any pin) Voltage must in range 0.5-4.3V. Disconnect wheel speed sensor from ECU. Measure resistance of Sensor and cabling. Resistance must be between 800 2000 Ohm. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. Check and correct air gap between wheel speed sensor and tone wheel by measuring the wheel speed signal (Wheel speed sensor signal must be higher than 100mV peak to peak at wheel speed of about 3-5km/h)."	Wheel Speed Sensor 2

Node	DTC ISO	FailureEvent	FTB_Name	FuncBehaviorDesc	PossibleRootCause	ProcedureEraseConfirmedDtc	ProposedWorkshopAction	ProprietaryName
ABS	C100138	The error is set if the current wheel speed differs (>25%) from the average of the other wheels for a long time.	Signal Frequency Incorrect	ABS Function: Limited values used as outputs or calculations not executed EBD Function: Limited values used as outputs or calculations not executed	Tyre with wrong circumference is mounted, wrong tone wheel, puncture of the tyre, continuous brake force on a wheel without brake activated by ABS. Damage in the wiring and/or connectors between WSS and ECU. Undetected fault of the wheel speed sensor, too big airgap (dropped out wheel speed sensor)	Diagnostic Service 14. No additional action is needed.	Check tire and check the brakes. If error still active, check Wheel speed sensors by driving and monitoring. Wheel speed shall not differ more than 25 %. check tone wheel	Wheel Speed Sensor 2
ABS	C100154	The deviation between the learned wheel circumferences and the EOL programmed values are too large (deviation > 25%).	Missing Calibration	ABS Function: Limited values used as outputs or calculations not executed EBD Function: Limited values used as outputs or calculations not executed	Tyre with wrong circumference is mounted on one of the axles, wrong calibration of C3 -signal, tachograph not calibrated, wrong parameter for wheel circumference, number of teeth of tone wheel.	Diagnostic Service 14. No additional action is needed.	"Check if tire size of all tires is according vehicle specification. Check C3 Signal calibration, check tachograph for additional faultcodes. Check number of teeth on tone wheel on all wheels. (Check tire size of all tires in data set.) V3p to check"	Wheel Speed Sensor 2
ABS	C100201	Hardware fault is detected by wheel speed input circuit of the ECU.	General Electrical Failure	ABS Function: Limited values used as outputs or calculations not executed EBD Function: Limited values used as outputs or calculations not executed	Damage of the wheel speed sensor wiring or connector, wheel speed sensor or its wiring shorted to ground or supply	Diagnostic Service 14. No additional action is needed.	"Check the cables and connectors between ECU and wheel-speed sensor for short-circuits and open-circuits. Disconnect wheel speed sensor from ECU. 1. Measure resistance of Sensor and cabling. Resistance must be between 800 2000 Ohm. -> Change Sensor or wiring if out of range 2. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. -> Change Sensor or wiring if out of range"	Wheel Speed Sensor 3
ABS	C100225	if the minimum measurable wheel-speed is above its limit value, then fault is set. (Limit speed is 10 [km/h])	Signal Shape / Waveform Failure	ABS Function: Limited values used as outputs or calculations not executed EBD Function: Limited values used as outputs or calculations not executed	Large airgap, dirty tone wheel, toggling tone wheel, damaged tone wheel (missing or destroyed tone wheel teeth)	Diagnostic Service 14. No additional action is needed.	"Check and correct air gap between wheel speed sensor and tone wheel by measuring the wheel speed signal. (Wheel speed sensor signal must be higher than 100mV peak to peak at wheel speed of about 3-4km/h). Check the cables and connectors between ECU and wheel-speed sensor for short-circuits and open-circuits. Measure resistance of Sensor and cabling. Resistance must be between 800 2000 Ohm. Measure insulation resistance of sensor and cabling to vehicle GND. Resistance must be > 200kOhm. If possible: Check tone wheel by checking wheel speed sensor signal for correct wave(Not possible to define the correct waveform) form according the specification for wheel speed sensor wave form or check tone wheel for dirt and metallic particles, for wobble, for pitch error, for the correct number of teeth. Check wheel speed sensor mounting."	Wheel Speed Sensor 3