



DATA COMPENDIUM

FAULT MESSAGES

TRUCKNOLOGY GENERATION

For notes on setting or repairing the individual systems please see the repair manuals or the relevant Service Information sheets.

After completing repairs delete the fault memory.

The last page folds out; on the inside you will find the FMI code and its meaning.

The SPN for the door module – driver's and co-driver's side – can be read out only with MAN-cats II; the SPN is not shown in the display.

If one SPN refers to the same fault/component in several control units/systems, only the generic term of the system is given.

Example: "03512 EBS OBD, request, red warning lamp for diagnosis": this SPN applies to all EBS variants although they are not all expressly named (EBS2, EBS5 etc.)

If one SPN refers to different faults/components in several control units/systems each relevant variant is named.

Example: 03099 EDC (Common Rail) fuel pressure sensor – rail pressure

03099 EDC (no Common Rail) fuel pressure sensor



This SD supersedes SD 812-08.2001

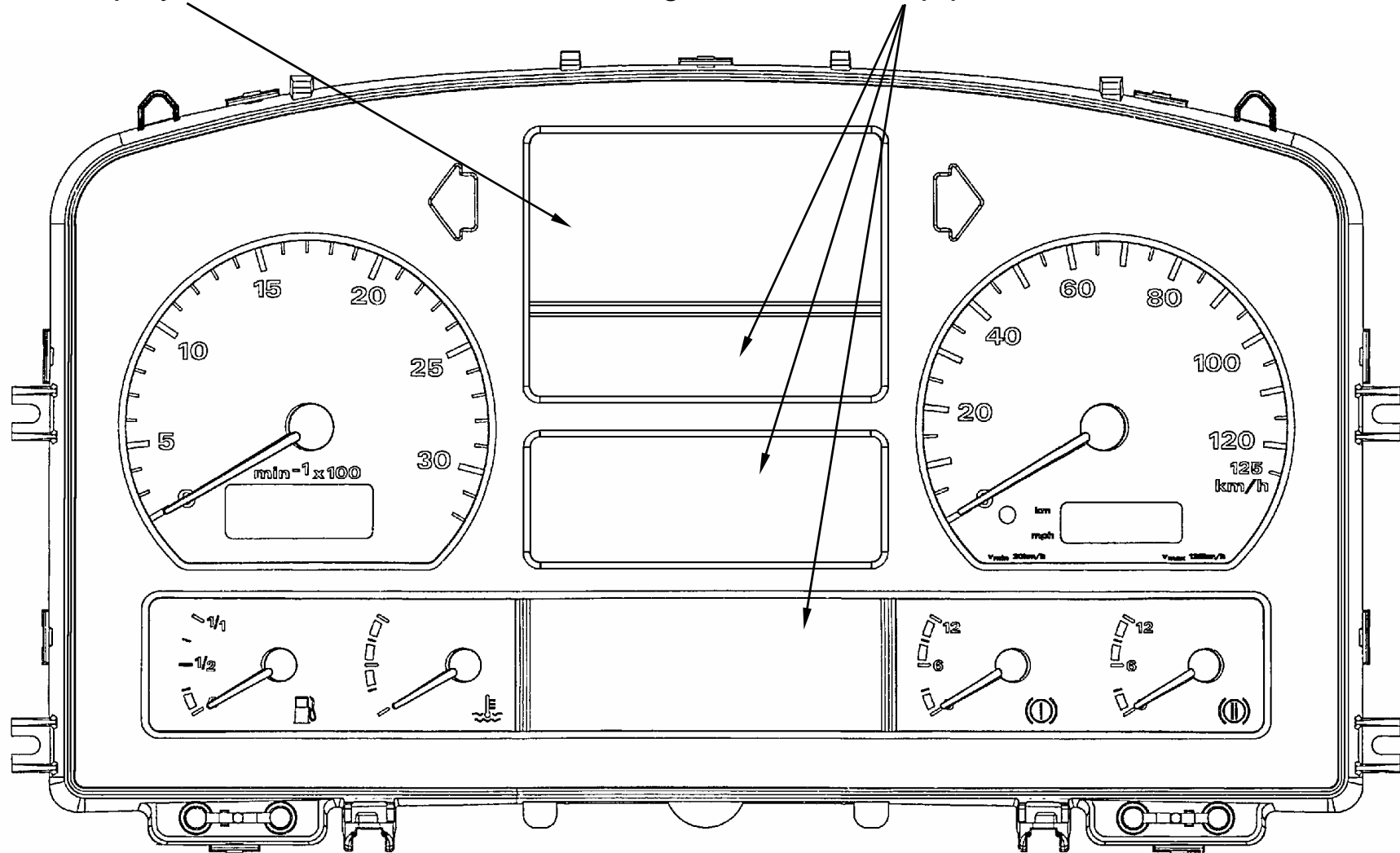























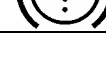
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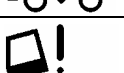
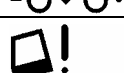
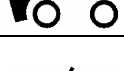
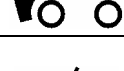
Main instrument





























Message in display














Message via check lamp panels






















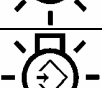
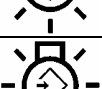

Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	ABS in trailer		yel-low	yes	Line to trailer ABS to earth, fault in trailer ABS or trailer ABS speed sensor test
	ABS in trailer, failure		yel-low	yes	Power supply to trailer ABS is not between 100mA and 2A
	ABS in tractor, failure		yel-low	yes	ABS function is restricted
	CAN network failure		yel-low	yes	Reaction stored in instrument
	ASR failure		yel-low	yes	Connection to engine control unit disrupted
	EBS failure		red	yes	EBS not on CAN
	Reservoir pressure too low		red	yes	Pressure is below warning pressure ECAM substitute function in ZBR
	Reservoir pressure K1		red	yes	Reservoir pressure implausible, shown only with ECAM
	Reservoir pressure K2		red	yes	
	Reservoir pressure K3		red	yes	
	Reservoir pressure K4		red	yes	












Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	Reservoir pressure K1 too low		red	yes	Pressure below warning pressure or ECAM substitute function in ZBR or short-circuit/interruption in sensor/sensor cable or pressure constantly below reservoir pressure
	Reservoir pressure K2 too low		red	yes	
	Reservoir pressure K3 too low		red	yes	
	Reservoir pressure K4 too low		red	yes	
	ECAM failure		red	yes	ECAM not on CAN
	Fault in trailer brake		red	yes	CAN brake, tractor to trailer
	CAN network failure		red	yes	Reaction saved in instruments
	Brake pads/linings warn		red	yes	
	INFO Not driving level		yel-low	yes	No valid ride level set
	ECAS failure		red	yes	ECAS not on CAN
	Lock cab!		red	yes	At least one of switching contacts for cab lock is open
	Tipper operation		red	yes	Cable from tipper switch contact to earth









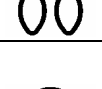
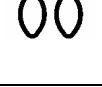

Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	Lock liftgate		red	yes	Cable from liftgate switch to High Potential
	Gas filter contaminated		red	yes	
	Comfort Shift defective		red	yes	Comfort Shift cannot be used
	Reservoir pressure – do not shift		red	yes	No reservoir pressure on gearbox
	Gearbox temp. too high		red	yes	Gearbox temp. much too high
	Change air filter		yel-low	yes	Partial vacuum has exceeded limit
	Oil pressure too low		red	yes	
	Oil pressure too high		red	yes	
	Coolant level too low		red	yes	
	Cooling system		red	yes	Gradient for coolant > 102° C too high
	Cooling system – switch off engine		red	yes	To EDC anti-boiling feature
	Coolant temp. too high		red	yes	
	Engine speed too high		red	yes	EDC speed monitoring
	Engine brake failure		red	yes	EGR valve above/below position














Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	Engine oil temp. too high		red	yes	
	ESP failure		yel-low	yes	ESP no onCAN or CAN message with ESP contents is missing
	ESP failure		yel-low	yes	FDR function is restricted or not present
-	No text		yel-low	no	ABS switch-off or ABS OFFROAD
-	No text		yel-low	yes	Reaction in instrument saved on CAN in event of failure
-	No text		yel-low	yes	Reaction in instrument saved on CAN in event of failure
-	No text		yel-low	no	No ABS on trailer
-	No text		red	no	Comes on when ignition is switched on, remains on after bulb test ,
-	No text		red	no	Cable for belt check is on earth
-	No text		yel-low	no	ASR intervention (LED comes on) or ASR OFFROAD (LED flashes)













Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
-	No text		grün	no	Flasher check for trailer
-	No text		yel-low	no	ESP (FDR) interventions
-	No text		blau	no	High beam function check
-	No text		red	no	Parking brake function check
-	No text		yel-low	no	Flame start function check
-	No text		yel-low	no	
	Overload on rear axle or overload on front axle	-	-	yes	
	Level not reached	-	-	yes	Ride level implausible or cannot be set by ECAS
	TCO failure	-	-	yes	EU tachograph not on CAN
	Check TCO	-	-	yes	EU tachograph not in order.
	Brake lights without function	-	-	yes	Brake light signal failure on CAN











Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	Tractor brake lights failure	-	-	yes	Lamp defective short-circuit, cable interrupted
	Trailer brake lights failure	-	-	yes	Lamp defective short-circuit, cable interrupted
	Trailer flashers rh failure or Trailer flashers lh failure	-	-	yes	Failure of flasher lamp, or lamp load out of tolerance
	Tractor flashers rh failure or Tractor flashers lh failure	-	-	yes	
	Clear lighting monitoring	-	-	no	
	Block lighting monitoring	-	-	no	
	Flasher test	-	-	no	
	Light test	-	-	no	
	Light test aborted	-	-	no	
	Light test again	-	-	no	
	End of light test	-	-	no	













Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	New trailer, learn light test	-	-	no	
	High beam rh failure or high beam lh failure	-	-	yes	
	Add. headlight failure	-	-	yes	Relay for add. high beam (roof)
	Add. headlight lh failure or Add. headlight rh failure	-	-	yes	
	Foglamp lh failure or Foglamp rh failure	-	-	yes	
	Rear foglamp failure on tractor rear foglamp failure on trailer	-	-	yes	
	Fault in lh side marker lights or fault in rh side marker lights	-	-	yes	Failure of at least one side marker light on tractor
	Parking lights failure	-	-	yes	Relay for parking lights (ZBR output)
	Trailer parking lights lh failure or trailer parking lights rh failure	-	-	yes	
	Tractor parking lights lh failure or tractor parking lights rh failure	-	-	yes	
	Winter service lighting failure	-	-	yes	Relay for winter service cannot be triggered



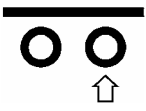
Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	Switch defective - foglamps	-	-	yes	
	Switch defective – low beam	-	-	yes	
	Switch defective – high beam	-	-	yes	
	Switch defective – headlight flash	-	-	yes	
	Switch defective – parking lights	-	-	yes	
	Brake pad/lining wear	-	yel-low	yes	Limit of wear reached in at least one brake lining/pad
	Parking brake display defective	-	-	yes	Parking brake display not possible, as CAN signal not available
	Apply parking brake	-	-	yes	
	Pre-glow	-	-	yes	Refers to pre-glow period
	Pre-glow again	-	-	yes	Shows that readiness for starting has expired, pre-glow must be repeated
	Start engine	-	-	yes	Refers to readiness for starting

Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	Flammstart Ausfall	-	-	yes	
	Danger black ice	-	-	yes	Refers to black ice
	Clutch lining worn	-	-	yes	Limit of wear for clutch lining
	Clutch overloaded – shift down	-	-	yes	Load too high during moving off
	Actuate clutch	-	-	yes	Clutch did not open during shifting
	Clutch oil level too low	-	-	yes	Clutch fluid level too low
	Alternator display defective	-	-	yes	When ignition is on cable from terminal L is not on earth
	Alternator failure	-	-	yes	Terminal L is on earth and engine running
	Charge voltage too low	-	-	yes	Charge voltage constantly too low
	Tension V-belts	-	-	yes	
	Charge voltage too high	-	-	yes	At rated speed (engine) charge voltage is too high
	Battery undervoltage	-	-	yes	Battery undervoltage after standing too long
	Switch defective – warning flashers	-	-	yes	

Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	Service due	-	-	yes	
	TBM failure	-	-	yes	TBM not on CAN
	Apply parking brake	-	-	yes	Tells you to apply parking brake
	Engage neutral	-	-	yes	Tells you to shift gearbox to neutral
	SET xxkm/h	-	-	no	
	MEMO xxkm/h	-	-	no	
	LIMIT	-	-	no	
	Info ! Fault or grease fault in central lube	-	-	yes	
	EDC failure	-	-	yes	EDC not on CAN
	Boost pressure sensor defective	-	-	yes	Boost pressure cannot be measured correctly
	No text	-	-	no	Engine brake (in vehicles without retarder)
FFR	FFR failure	-	-	yes	FFR not on CAN
	LGS failure	-	-	yes	LGS not on CAN

Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
KSM	KSM failure	-	-	yes	KSM not on CAN
	No text	-	-	no	Engine brake (in vehicles with re-tarder)
	RET P failure	-	-	yes	Primary retarder (water pump) not on CAN
	RET S failure	-	-	yes	Secondary retarder not on CAN
	Retarder temp. too high	-	-	yes	Oil temperature at retarder outlet too high (advance warning)
	Retarder temp. too high	-	-	yes	Retarder temp. much too high
	No text	-	-	no	
ZBR	CAN Verbund Ausfall	-	-	yes	T-CAN BusOff, Reaction saved in instruments
	Low beam lh failure or low beam rh failure	-	-	yes	Low beam lh on tractor
	Headlight height lh failure autom.	-	-	yes	Automatic beam regulator implausible on lh side
	Headlight height rh failure autom.	-	-	yes	Automatic beam regulator implausible on rh side
	Steering oil level fault	-	-	yes	Oil level too low

Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	Steering oil pressure too low	-	-	yes	Switch for flow meter in emerg. steering pump is closed
	TCU failure	-	-	yes	Automatic gearbox not on CAN
	Comfort Shift defective	-	-	yes	Comfort Shift button is not being evaluated
	Engage higher gear	-	-	yes	Speed difference between engine and gearbox too high
	No idle gas	-	-	yes	Tells you to take foot off accelerator
	Gearbox temp. too high	-	-	yes	Temperature in gearbox oil sump (advance warning)
	Fill tank	-	-	yes	Tank on reserve
	Tank pickup failure	-	-	yes	Monitoring of tank pickup 1 in ZBR
	Tank pickup 2 failure	-	-	yes	Monitoring of tank pickup 2 in ZBR
	Coolant level too low	-	-	yes	Coolant level below min.
	No text	-	-	no	
	No text	-	-	no	Function feedback from rear foglamp

Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	No text	-	-	no	
	No text	-	-	no	
	No text	-	-	no	Display message for moving-off aid ECAS Nordland or ECAS EFR Nordland

SPN..... Control unit/System..... Fault message

00001	..... all except MTS	..... Date, time, mileage in km
00001	..... MTS	..... Expansion module door 2
00002	..... MTS	..... Expansion module door 3
00002	..... ZBRO	..... Engine Speed
00003	..... MTS	..... Expansion module door 4
00003	..... ZBRO	..... Oil pressure
00004	..... MTS	..... Expansion module door 5
00004	..... ZBRO	..... Reservoir pressure brake circuit 1
00005	..... MTS	..... Motor/door valve door 1 (front)
00005	..... ZBRO	..... Reservoir pressure brake circuit 2
00006	..... MTS	..... Motor/door valve door 1 (rear)
00006	..... ZBRO	..... Brake pressure brake circuit 1
00007	..... MTS	..... Motor/door valve door 2 (front)
00007	..... ZBRO	..... Brake pressure brake circuit 2
00008	..... MTS	..... Motor/door valve door 1 (rear)
00008	..... ZBRO	..... Accelerator pedal position
00009	..... MTS	..... Motor/door valve door 3 (front)
00009	..... ZBRO	..... Preselected gear
00010	..... MTS	..... Motor/door valve door 3 (rear)
00010	..... ZBRO	..... Engaged gear
00011	..... MTS	..... Motor/door valve door 4 (front)
00011	..... ZBRO	..... Cooling water temperature
00012	..... MTS	..... Motor/door valve door 4 (rear)
00012	..... ZBRO	..... Tank fill level
00013	..... MTS	..... Motor/door valve door 5 (front)
00013	..... ZBRO	..... Reservoir pressure brake circuit 1
00014	..... MTS	..... Motor/door valve door 5 (rear)
00014	..... ZBRO	..... Reservoir pressure brake circuit 2
00015	..... MTS	..... Entry lighting door 1
00015	..... ZBRO	..... On-board voltage
00016	..... MTS	..... Entry lighting door 2
00017	..... MTS	..... Entry lighting door 3
00018	..... MTS	..... Entry lighting door 4
00019	..... MTS	..... Entry lighting door 5
00020	..... MTS	..... Door closing warning device door 1
00021	..... MTS	..... Door closing warning device door 2

SPN..... Control unit/System..... Fault message

00022	MTS	Door closing warning device door 3
00023	MTS	Door closing warning device door 4
00024	MTS	Door closing warning device door 5
00025	MTS	Ramp activation door 1
00026	MTS	Ramp activation door 2
00027	MTS	Ramp activation door 3
00028	MTS	Ramp activation door 4
00029	MTS	Ramp activation door 5
00030	MTS	Stop request display door 1
00031	MTS	Stop request display door 2
00032	all except MTS	Split position
00032	MTS	Stop request display door 3
00033	all except MTS	Clutch travel sensor
00033	MTS	Stop request display door 4
00034	MTS	Stop request display door 5
00035	MTS	Door enable display door 1
00036	MTS	Door enable display door 2
00037	MTS	Door enable display door 3
00038	all except MTS	Fuel fill level 2
00038	MTS	Door enable display door 4
00039	MTS	Door enable display door 5
00040	MTS	Workshop switch door 1
00041	MTS	Workshop switch door 2
00042	MTS	Workshop switch door 3
00043	MTS	Workshop switch door 4
00044	MTS	Workshop switch door 5
00045	MTS	Pressure shaft door 1
00046	EMOS	Cruise control nominal speed
00046	MTS	Pressure shaft door 2
00047	MTS	Pressure shaft door 3
00048	MTS	Pressure shaft door 4
00049	MTS	Pressure shaft door 5
00050	MTS	Stop request button door 1
00051	CNG	Throttle butterfly
00051	MTS	Stop request button door 2
00052	MTS	Stop request button door 3
00053	MTS	Stop request button door 4

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SPN..... Control unit/System..... Fault message

00054	MTS	Stop request button door 5
00055	MTS	Baby carriage button door 1
00056	MTS	Baby carriage button door 2
00057	MTS	Baby carriage button door 3
00058	MTS	Baby carriage button door 4
00059	MTS	Baby carriage button door 5
00060	MTS	Limit switch CLOSED door 1 (front)
00061	MTS	Limit switch CLOSED door 1 (rear)
00062	MTS	Limit switch CLOSED door 2 (front)
00063	MTS	Limit switch CLOSED door 2 (rear)
00064	MTS	Limit switch CLOSED door 3 (front)
00065	MTS	Limit switch CLOSED door 3 (rear)
00066	MTS	Limit switch CLOSED door 4 (front)
00067	MTS	Limit switch CLOSED door 4 (rear)
00068	MTS	Limit switch CLOSED door 5 (front)
00069	MTS	Limit switch CLOSED door 5 (rear)
00070	MTS	Pressure monitoring door 1
00070	OBDU	Parking brake applied
00070	ZBR2	No 'parking brake' signal
00071	MTS	Pressure monitoring door 2
00072	MTS	Pressure monitoring door 3
00073	MTS	Pressure monitoring door 4
00074	all except MTS	Lamp, road speed limiting
00074	MTS	Pressure monitoring door 5
00075	all except MTS	Steering axle temperature
00075	MTS	Reference voltage door sensors door 1
00076	MTS	Reference voltage door sensors door 2
00077	MTS	Reference voltage door sensors door 3
00078	MTS	Reference voltage door sensors door 4
00079	MTS	Reference voltage door sensors door 5
00080	MTS	Door sensor door 1 front
00081	EDC	Exhaust differential pressure
00081	MTS	Door sensor door 1 rear
00082	MTS	Door sensor door 2 front
00083	MTS	Door sensor door 2 rear
00084	all except MTS	wheel-based vehicle speed
00084	MTS	Door sensor door 3 front

SPN..... Control unit/System..... Fault message

00085	MTS	Door sensor door 3 rear
00086	all except MTS	Road speed, cruise control
00086	MTS	Door sensor door 4 front
00087	MTS	Door sensor door 4 rear
00088	MTS	Door sensor door 5 front
00089	MTS	Door sensor door 5 rear
00090	MTS	C3 signal
00091	all except MTS	Accelerator pedal position
00091	MTS	Checklamp driver's workplace
00092	all except MTS	Current torque to maximum torque
00092	MTS	Pneumatic seal
00094	EDC	Fuel supply pressure
00094	MTS	Red/green display
00095	MTS	Depressurised buzzer
00096	all except MTS	Fuel fill level 1
00096	MTS	Bus-stop brake
00097	MTS	Stop request display driver
00098	all except MTS	Engine oil level
00098	MTS	Baby carriage display driver
00100	all	Oil pressure
00102	all	Boost pressure
00105	all	Charge air temperature
00107	all	Air filter pressure
00108	all	Barometric Pressure
00109	all	Cooling water pressure
00110	all	Coolant temperature
00111	all	Coolant Level
00119	RET	Housing pressure
00120	DIW5	Temperature acquisition retarder oil
00132	CNG	Air mass
00157	EDC, Common Rail	Fuel pressure in rail
00157	EDC6, not Common Rail	Fuel pressure
00158	all	Battery Potential (Voltage), Switched
00159	all	Gas Supply Pressure
00161	all	Gearbox input speed
00168	all	Battery voltage
00171	all	Outside temperature

SPN..... Control unit/System..... Fault message

00173..... CNG Exhaust temperature sensor
00173..... EDC Exhaust temperature before particulate filter
00174..... all Fuel temperature
00175..... all Engine oil temperature
00177..... all Transmission fluid temperature
00190..... all Engine speed
00191..... all Gearbox output speed
00228..... RAS..... Speed speedometer and sensor
00245..... all Vehicle mileage
00359..... all Kickdown switch signal
00512..... EMOS Driver request torque
00513..... all Engine torque
00514..... CRT..... Friction torque
00514..... EMOS 'Engine friction loss moment' signal
00518..... all Requested Torque
00520..... all Current retarder torque
00521..... all Brake pedal setting
00523..... all Current gear
00525..... EMOS Nominal gear signal
00544..... CRT..... Faulty engine speed signal
00556..... all Reference torque of the retarder
00558..... all Unladen driving switch signal
00560..... CRT..... CAN message ETC 1
00561..... all ASR engine check switch
00562..... all ASR brake check switch
00563..... all ABS active signal
00572..... all Retarder switch shift assistant
00578..... all Rear axle temperature
00582..... all Axle load
00595..... all Cruise control active signal
00597..... all Brake switch signal
00598..... KSM Clutch switch signal
00601..... all Road speed governor resume switch
00603..... EBS Pedal brake module switch 2
00609..... EBS Central control unit - B-controller
00609..... EDC Engine CAN
00617..... all Parking brake output

SPN..... Control unit/System..... Fault message

00620	RAS	Electrical power supply to steering angle sensors
00627	EBS	Monitoring of voltage supply on PIN X1/16 - X1/17
00627	RAS	Voltage supply terminal 30
00629	all	No text! Specific to control unit
00637	all	Timing Sensor
00638	all	Rack Actuator
00639	all	Sae J1939 Data Link
00645	EBS	External sequential fault: Time overrun or fault condition in communication with tachograph on CAN (SA=0xEE)
00645	RAS	Speedometer signal
00647	all	Fan clutch
00651	CNG	Injection valve of cylinder 1
00651	EDC	Solenoid valve: 4-cylinder engine: Cyl. 1; 6-cylinder engine: Cyl. 1; 8-cylinder engine: Master cyl. 1, slave cyl. 5; 10-cylinder engine: Master cyl. 1, slave cyl. 6; 12-cylinder engine: Master cyl. 1, slave cyl. 12
00652	CNG	Injection valve of cylinder 2
00652	EDC	Solenoid valve: 4-cylinder engine: Cyl. 3; 6-cylinder engine: Cyl. 5; 8-cylinder engine: Master cyl. 2, slave cyl. 7; 10-cylinder engine: Master cyl. 5, slave cyl. 10; 12-cylinder engine: Master cyl. 5, slave cyl. 8
00653	CNG	Injection valve of cylinder 3
00653	EDC	Solenoid valve: 4-cylinder engine: Cyl. 4; 6-cylinder engine: Cyl. 3; 8-cylinder engine: Master cyl. 3, slave cyl. 6; 10-cylinder engine: Master cyl. 2, slave cyl. 7; 12-cylinder engine: Master cyl. 3, slave cyl. 10
00654	CNG	Injection valve of cylinder 4

SPN..... Control unit/System..... Fault message

00654..... EDC Solenoid valve:
4-cylinder engine: Cyl. 2;
6-cylinder engine: Cyl. 6;
8-cylinder engine: Master cyl. 4, slave cyl. 8;
10-cylinder engine: Master cyl. 3, slave cyl. 8;
12-cylinder engine: Master cyl. 6, slave cyl. 7

00655..... CNG Injection valve of cylinder 5

00655..... EDC Solenoid valve:
6-cylinder engine: Cyl. 2;
10-cylinder engine: Master cyl. 4, slave cyl. 9;
12-cylinder engine: Master cyl. 2, slave cyl. 11

00656..... CNG Injection valve of cylinder 6

00656..... EDC Solenoid valve:
6-cylinder engine: Cyl. 4;
12-cylinder engine: Master cyl. 4, slave cyl. 9

00697..... all Accelerator pedal PWM1 signal

00698..... all Accelerator pedal PWM2 signal

00699..... all Accelerator pedal PWM1 and PWM2 signal

00702..... KSM Earth switch output, adjustable parameters

00703..... KSM Switch terminal 30 output, adjustable parameters

00704..... KSM Switch 2 terminal 30 output, adjustable parameters

00705..... KSM Switch 3 terminal 30 output, adjustable parameters

00706..... KSM Switch 4 terminal 30 output, adjustable parameters

00707..... KSM Switch 5 terminal 30 output, adjustable parameters

00708..... KSM Earth switch 2 output, adjustable parameters

00709..... KSM Earth switch 3 output, adjustable parameters

00711..... EDC Duration of main injection

00723..... all Auxiliary engine speed sensor

00731..... CNG Knock sensor 1

00734..... all Solenoid valve circuit 1

00735..... all Solenoid valve circuit 2

00736..... all Solenoid valve circuit 3

00737..... all Solenoid valve circuit 4

00738..... all Solenoid valve pressure regulator

00739..... all Solenoid valve regeneration

00743..... RET On/off valve

00744..... RET Proportional valve

SPN..... Control unit/System..... Fault message

00746	EBS	Differential lock valve (differential lock switch)
00748	all	Retarder actuated
00764	RET	Pressure sensor housing pressure
00767	all	Transmission Reverse Direction Switch
00770	all	Split H
00771	all	Split L
00773	all	DNR switch
00780	all	Gearbox neutral indicator
00789	EBS	Wheel sensor wheel 1
00790	EBS	Wheel sensor wheel 2
00791	EBS	Wheel sensor wheel 3
00792	EBS	Wheel sensor wheel 4
00793	EBS	Wheel sensor wheel 5
00794	EBS	Wheel sensor wheel 6
00833	all	Fuel Rack Position Sensor
00835	RAS	Oil level signal
00876	GKR	Compressor coupling
00877	GKR	Evaporator temperature sensor
00898	all	Maximum speed limiter switch
00904	all	Front axle speed
00929	TPM	Tyre data
00932	EBS	Pressure regulating valve left intake valve
00933	EBS	Pressure regulating valve right intake valve
00938	EBS	Pressure regulating valve left exhaust valve
00939	EBS	Pressure regulating valve right exhaust valve
00944	AB	Driver's airbag (loop 1)
00944	all except airbag	No text! Specific to control unit
00946	AB	left BT (loop 2)
00946	all except airbag	No text! Specific to control unit
00948	AB	SRS lamp
00948	all except airbag	No text! Specific to control unit
00959	all	Seconds
00960	all	Minutes
00961	all	Hours
00962	all	Day
00963	all	Month
00964	all	Year

SPN..... Control unit/System..... Fault message

00974	KSM	Pedal value sensor
00976	KSM	Ready output
01007	ZBR2	Trip Drive Fuel Used (Natural Gas)
01031	ZBR2	Trip Average Fuel Rate (Natural Gas)
01042	EBS	ISO 11992 (trailer CAN): Data bus switched off
01043	ECAS	Supply voltage for peripherals
01045	all	Gate interlock (auxiliary engines also brake lamp output stage)
01056	EBS	Trailer control module pressure control, maximum pressure
01057	EBS	Central control unit - B-controller: Implausible pressure from trailer control module pressure sensor, when brakes not applied
01058	EBS	Trailer control module - pressure sensor signal
01060	EBS	Brake pad wear sensor signal wheel 1
01061	EBS	Brake pad wear sensor signal wheel 2
01062	EBS	Brake pad wear sensor signal wheel 3
01063	EBS	Brake pad wear sensor signal wheel 4
01064	EBS	Brake pad wear sensor signal wheel 5
01065	EBS	Brake pad wear sensor signal wheel 6
01066	EBS	Service brake module
01067	EBS	Service brake module signal 1 (increasing)
01068	EBS	Service brake module signal 2 (decreasing)
01072	all	Engine brake switch
01079	CNG	Supply voltage sensors 1
01079	EDC	Supply to rail pressure sensor
01079	HDS	Supply voltage sensor 1
01079	RET	Supply voltage pressure sensor 5 volts
01080	CNG	Supply voltage sensors 2
01080	EDC	Supply fuel supply pressure, charge air pressure and oil pressure sensor
01080	HDS	Supply voltage sensor 2
01086	all	Pressure, pressure sensor - circuit 3
01087	all	Pressure, pressure sensor - circuit 1
01088	all	Pressure, pressure sensor - circuit 2
01089	all	Pressure, pressure sensor - circuit 4
01090	all	Pressure, pressure sensor - circuit 5

SPN..... Control unit/System..... Fault message

01131	EDC	Charge air temperature ahead of engine
01210	all	No text! Specific to control unit
01213	KSM	Checklamp output
01231	CRT	Engine CAN
01231	EDC	Engine CAN
01235	all	J 1939 Network #3
01352	CNG	Knock control cylinder 1
01353	CNG	Knock control cylinder 2
01354	CNG	Knock control cylinder 3
01355	CNG	Knock control cylinder 4
01356	CNG	Knock control cylinder 5
01357	CNG	Knock control cylinder 6
01376	all	TI. 30-1 connected
01485	HDS	Main relay switched off
01542	HDS	Voltage supply metering valve
01624	all	Road speed
01669	KSM	A-CAN busoff
01673	ZBRO	Status body 3 CAN
01675	EMOS	'Engine start' signal
01676	ZBR2	No 'Break light request' signal in ERC_RX (timeout)
01761	HDS	Urea fill level tank
02000	OBDU	No text! Specific to control unit
02001	OBDU	EDC slave not on CAN
02003	OBDU	Gearbox not on CAN
02009	OBDU	MAN Hydro Drive control unit not on CAN
02011	OBDU	EBS not on CAN (pneumatic backup operation)
02015	OBDU	Retarder engine not on CAN
02016	OBDU	Driveline retarder not on CAN
02023	OBDU	Instrumentation not on CAN
02037	OBDU	Radio module not on CAN
02039	OBDU	FFR not on CAN
02042	OBDU	ACC not on CAN
02047	OBDU	ECAS not on CAN
02048	OBDU	ECAM not on CAN
02051	OBDU	Tyre pressure control system (TPM) not on CAN
02056	OBDU	Control unit of the steering rear axle (RAS) not on CAN
02061	OBDU	Control unit of the exhaust post-treatment not on CAN

SD 812a en

SPN..... Control unit/System..... Fault message

02062	.....	OBDU.....	ESP not on CAN
02064	.....	OBDU.....	ECAS 2 not on CAN
02067	.....	OBDU Torque converter and clutch system (WSK) not on CAN	
02114	.....	OBDU.....	VSM not on CAN
02120	.....	OBDU.....	ZFR not on CAN
02232	.....	OBDU.....	Lane guard system not on CAN
02238	.....	OBDU.....	Tachograph not on CAN
02251	.....	OBDU.....	Telematic onboard module not on CAN
02253	.....	OBDU.....	KSM not on CAN
02987	.....	INST.....	Parameter set in combination gauge or chassis number in tachograph not adapted to the vehicle
02987	.....	STON.....	Parameter set in instrument cluster or in tachograph not adapted
02987	.....	ZBR2.....	Parameter record in central on-board computer 2 or chassis number in tachograph not adapted to vehicle
02999	.....	ECO2.....	Retarder reduction if a temperature threshold is exceeded
02999	.....	RET.....	Power limit (temperature adaptation)
03000	.....	EBS.....	No fault
03000	.....	EHLA.....	Electronics error function computer
03000	.....	KSM.....	CAN data bus: Time overrun when receiving VMC message ETC1.
03000	.....	SKG.....	Temperature at outfeed of evaporator (KTT n. KTBV)
03000	.....	TBM.....	An unexpected RESET has occurred
03000	.....	TPM.....	Tyre pressure
03000	.....	ZBR2.....	ZBR system
03001	.....	ACC.....	Additional information 1
03001	.....	EBS.....	Control unit defective; unknown μ C interrupt, μ C self-test, RAM or ROM test
03001	.....	ECAS.....	Control unit (internal fault)
03001	.....	EDC.....	Engine speed sensor, reverse polarity
03001	.....	EHLA.....	Electronic error safety computer
03001	.....	FFR.....	Term. 30, continuous positive
03001	.....	GKR.....	Interior air temperature sensor
03001	.....	KSM.....	CAN data bus: Time overrun when receiving VMC message ETC2.
03001	.....	RET.....	Temperature sensor before engine (T1)

SPN.....	Control unit/System.....	Fault message
03001	SFFR.....	Driver's request
03001	SKG	Temperature at outfeed of ice accumulator (KTT n ESP)
03001	TBM	Real-time clock TBM
03001	TUER	RESET
03001	ZBR2	Wake up, computer
03001	ZBRO	External wake-up ZR
03002	ACC	Additional information 2
03002	AST	Y2 valve splitter low
03002	EBS	Control unit defective, timeout in data exchange μ C active – μ C passive
03002	EDC	Segment speed
03002	EHLA	Digital output parameters
03002	GKR	External air temperature sensor
03002	KSM	CAN data bus: Time overrun when receiving VMC message ETC3.
03002	RET	Temperature sensor after engine (T2)
03002	SFFR	Speed request ship vehicle management computer
03002	TBM	Fault in EEPROM
03002	TUER	EE_CHECKSUM_ERROR
03002	ZBRO	External wake-up1 ZR
03003	ACC	Additional information 3
03003	AST	Y3 valve splitter high
03003	EBS	Control unit defective; redundancy fault μ c input signal
03003	EDC	Engine speed sensor/ auxiliary speed sensor swapped over
03003	GKR	Blow-out air temperature sensor
03003	KSM	CAN data bus: Time overrun when receiving EBS message EBC1.
03003	RET	Fault (watchdog drop-out / internal error in control unit)
03003	SFFR	Terminal 15
03003	SKG	Motor / valve B
03003	TBM	Fault in RAM disk
03003	TUER	SIDE_INFORMATION_ERROR
03003	ZBRO	External wake-up2 ZR
03004	ACC	Additional information 4
03004	AST	Y4 valve gate position 3 / 4

SPN..... Control unit/System..... Fault message

03004..... EBS..... Control unit defective,
checksum data exchange μ C active – μ C passive

03004..... EDC..... EGR valve position

03004..... GKR..... Bypass flap motor potentiometer

03004..... KSM..... CAN data bus: Time overrun when receiving
EDC message CcVeh_speed.

03004..... LGS..... Control unit

03004..... RET..... EEPROM (data record fault)

03004..... SFFR..... Voltage selector lever

03004..... SKG..... Motor / valve C

03004..... TBM..... Operating temperature TBM

03004..... TUER..... ILLEGAL_STATE

03004..... ZBRO..... External wake-up ZR by IKN

03005..... AST..... Y5 valve gate position 1 / 2

03005..... EBS..... Control unit defective; EEPROM fault:
Checksum not correct

03005..... EDC..... Timeout, message location 13

03005..... EHLA..... Proportional valve outputs

03005..... GKR..... Heating valve

03005..... KSM..... CAN data bus: Time overrun when receiving
EDC message EEC1.

03005..... RET..... ROM (checksum incorrect)

03005..... SFFR..... Voltage pedal value sensor

03005..... SKG..... Main pump

03005..... TBM..... Overcurrent at digital power current outputs

03005..... TUER..... ILLEGAL_EVENT

03005..... ZBRO..... Status ZR fault number

03006..... AST..... Y6 valve shift position 1 / R

03006..... EDC..... Primary speed

03006..... GKR..... Recirculation ventilation flap motor

03006..... KSM..... CAN data bus: Time overrun when receiving
EDC message EEC2.

03006..... RET..... CAN data bus, TSC1 - message

03006..... SKG..... Recirculating pump

03006..... TUER..... Window lifter motor

03006..... ZBRO..... K3-CAN activation

03007..... AST..... Y3 valve shift position 2 / 3

SPN..... Control unit/System..... Fault message

03007..... EDC DM4 request, invalid PGN
03007..... GKR Bypass flap motor
03007..... KSM CAN data bus: Time overrun when receiving
EDC message Eng_Temp.
03007..... RET CAN data bus, EEC1 - message
03007..... SKG Communication control element – control unit
03007..... TUER right/left switch (mirrors)
03007..... ZBRO T-CAN activation
03008..... AST Y3 valve range-change group low
03008..... EBS Control unit defective;
test transfer from μ c to CAN trailer IC
03008..... EDC FFR3: Retarder oil temperature invalid
03008..... EHLA Sensor supply, deviation
03008..... GKR Blower control voltage
03008..... KSM CAN data bus: Time overrun when receiving
EDC message EngFlui_LevPre.
03008..... RET CAN data bus, TCO1 - message
03008..... SKG Filling/bleeding mode not completed correctly
03008..... TUER Window lifter shut-off
03008..... ZBRO Central computer running on
03009..... AST Y3 valve range-change group high
03009..... EBS.. Control unit defective; redundancy fault μ c output signal
03009..... EDC Overspeed
03009..... EHLA Voltage supply switched on when vehicle moving
03009..... KSM CAN data bus:
Time overrun when receiving EDC message Amb_Cond.
03009..... RET CAN data bus, ERC1 - message
03009..... SKG Controller mode
03009..... TUER Mirror adjust time exceeded
03010..... AST Y10 main valve
03010..... EBS Control unit defective;
wheel diameter compensation value not correct
03010..... ECAS Control unit (checksum ECU-specific data)
03010..... EDC Control deviation, injection start
03010..... EHLA Signature EOL parameter advance warning
03010..... FFR Torque and engine speed limiting system

SPN..... Control unit/System..... Fault message

03010..... KSM CAN data bus: Time overrun when receiving
ECAM message ECAM1.

03010..... LGS Turn indicator signal

03010..... RET CAN data bus, start error monitoring

03010..... SKG On-board voltage (terminal 30)

03010..... TBM No GPS signal

03010..... TPM Slight leakage: Slight pressure loss at min.
one tyre > approx. 20 mbar/h

03010..... TUER incorrect CAN command, door lock

03011..... CNG Heating probe before catalytic converter
(output stage)

03011..... EBS Control unit defective;
error in service brake valve characteristic

03011..... ECAS Control unit (checksum parameter)

03011..... EDC Angle of injection start

03011..... EHLA Signature EOL parameter

03011..... FFR EVB pressure sensor

03011..... KSM CAN data bus: Time overrun when receiving
CBR message Aux_Stat_Zbr1.

03011..... LGS Left loudspeaker

03011..... TBM GPS aerial current

03011..... TPM Pressure in left outer tyre, axle 1

03011..... TUER Central locking does not lock

03012..... EBS Control unit defective;
incompatibility in data record version number

03012..... ECAS . Control unit (checksum calibration data travel sensors)

03012..... EDC CAN module

03012..... EHLA Value range EOL parameter

03012..... KSM CAN data bus: Time overrun when receiving
CBR message Time_Date.

03012..... LGS Right loudspeaker

03012..... RET Pressure from cooler valve (brake lamp)

03012..... TPM Pressure in left inner tyre, axle 1

03013..... EBS Control unit defective;
characteristic in EEPROM not plausible

03013..... ECAS Control unit
(checksum calibration data pressure sensors)

SPN..... Control unit/System..... Fault message

- 03013..... EDCCAN bus off
- 03013..... EHLA.....Steering pressure sensor
- 03013..... KSM CAN data bus: Time overrun when receiving
CBR message Veh_Dist.
- 03013..... RET Axial thrust (outside tolerance)
- 03013..... TPM Pressure in right inner tyre, axle 1
- 03014..... EBS..... Control unit electrical power supply (tl. 30a)
- 03014..... EDC Main relay blocked
- 03014..... EHLA..... Pressure supply
- 03014..... KSM CAN data bus: Time overrun when receiving C34.
- 03014..... LGS Camera module too hot
- 03014..... RETPressure sensor positioning pressure
- 03014..... TPM Pressure in right outer tyre, axle 1
- 03015..... EBS..... Control unit electrical power supply (tl. 30b)
- 03015..... ECAS Control unit (checksum permitted axle loads)
- 03015..... EDC max. time after TERM. 15 OFF exceeded
- 03015..... EHLA.....Pressure supply warning
- 03015..... KSM Control unit (RAM)
- 03015..... LGS Output driver's seat vibration left
- 03015..... TBM GSM modem
- 03016..... EBS..... Control unit electrical power supply (tl. 15)
- 03016..... ECAS Control unit
(checksum calibration data acceleration sensors)
- 03016..... EDC FFR1: Bit error zero quantity due to engine brake
- 03016..... KSM Control unit (ROM)
- 03016..... LGS Output driver's seat vibration right
- 03017..... AST Y1 clutch brake
- 03017..... EBS ECU supply (external supply)
- 03017..... EDC FFR1: Bit error, nominal torque
- 03017..... KSM Control unit (watchdog)
- 03018..... AST Small valve for opening the clutch
- 03018..... EBS Control unit defective; brake switch 1 or 2
- 03018..... EDC FFR1: Bit error top-speed governor parameter ID
- 03018..... EHLA.....Oil level in tank
- 03018..... KSM Control unit (EEPROM parameter)
- 03019..... AST Small valve for closing the clutch
- 03019..... EBS..... Setpoint sensing (accelerator to brake pedal position)

SD 812a en

SPN..... Control unit/System..... Fault message

03019..... EDC FFR1: EDR min. nominal value not reached
03019..... EHLA..... Oil filter blocked
03019..... KSM Control unit (internal relay voltage supply or
short-circuit terminal 30 - terminal 30 switched output
03020..... AST Large valve for opening the clutch
03020..... EBS..... Faulty supply voltage (5 volts) for analog sensors
03020..... EDC FFR1: Bit error, EDR nominal value
03020..... FFR Accelerator pedal, PWM1 signal
03020..... KSM Control unit (EEPROM fault memory)
03020..... SFFR..... Supply voltage
03020..... TBM Breakdown switch
03020..... TPM Medium leakage: Pressure loss at min.
one tyre approx. 80 mbar/h
03021..... AST Large valve for closing the clutch
03021..... EBS..... Faulty pedal brake module potentiometer signal
03021..... EDC FFR1: Bit error intermediate speed governing
system parameter ID
03021..... EHLA..... CAN message 'EEC1'
03021..... FFR Accelerator pedal, PWM2 signal
03021..... KSM CAN data bus: Time overrun when receiving
vehicle management computer message Fuel_Cons.
03021..... SFFR..... Pedal value sensor
03021..... TBM Alarm switch
03021..... TPM Pressure in left outer tyre, axle 2
03022..... AST Electrical power supply, speed sensor ASTronic output
03022..... EBS..... Faulty axle load sensor 1
03022..... EDC FFR1: ISG nominal value
03022..... FFR Accelerator pedal, PWM1 and PWM2 signal
03022..... KSM CAN data bus: Time overrun when receiving
central on-board computer message Dash_Disp.
03022..... SFFR..... Selector lever
03022..... TBM Chassis number
03022..... TPM Pressure in left inner tyre, axle 2
03023..... EBS..... Faulty axle load sensor 2
03023..... EDC FFR1: Bit error request torque overrevving
03023..... KSM CAN data bus: Time overrun when receiving
EBS/ECAS message Veh_Weight.

SPN..... Control unit/System..... Fault message

03023..... SFFR..... Idling speed harmonisation
03023..... TBM Geographic width
03023..... TPM Pressure in right inner tyre, axle 2
03024..... AST Current WSK retarder torque in percent
03024..... EBS.... Brake pad wear: Incorrect tendency between the axles
03024..... EBS_K1 Dynamic pad trend fault axles
03024..... EDC FFR1: Bit error, request ramps off/out
03024..... EHLA..... Engine revs
03024..... KSM CAN data bus: Time overrun when receiving
vehicle management computer message Eng_Hour/Rev.
03024..... SFFR..... Default driving unit
03024..... TBM Geographic length
03024..... TPM Pressure in right outer tyre, axle 2
03025..... EBS..... Brake pad wear: Incorrect tendency
between the wheels of axle 1
03025..... EBS_K1 Dynamic pad trend fault front axles
03025..... EDC FFR1: reserved Bits & Bytes
03025..... EHLA..... Cab position, impermissible change when
vehicle moving
03025..... KSM CAN data bus: Time overrun when receiving
tachograph message Veh_Ident.
03025..... SFFR..... Engine CAN
03025..... TBM GPS position data
03026..... AST CAN data bus engine configuration from
the EDC, engine configuration
03026..... CNG Vehicle management computer message 1
03026..... EBS..... Brake pad wear: Incorrect tendency
between the wheels of axle 2
03026..... EBS_K1 Dynamic pad trend fault rear axle 1
03026..... EDC FFR1: Timeout
03026..... EHLA..... Cab position, vehicle moving when swivelling
03026..... EMOS Timeout of Engine_Config message
03026..... KSM CAN data bus: Time overrun when receiving
vehicle management computer message Service.
03026..... SFFR..... MMDS CAN
03026..... TBM CPU TRAP register

SPN..... Control unit/System..... Fault message

03027 AST CAN data bus engine configuration from the EDC,
engine configuration

03027 EBS Brake pad wear: Incorrect tendency
between the wheels of axle 3

03027 EBS_K1 Dynamic pad trend fault rear axle 2

03027 EDC FFR2: Driveline fault

03027 EHLA Cab position

03027 KSM CAN data bus: Time overrun when receiving
tachograph message TCO1.

03027 SFFR Engine CAN: Time overrun when receiving
EDC message EDC1

03028 AST CAN data bus retarder check from secondary retarder,
ERC1_RD (current retarder torque)

03028 EBS Brake pad wear: Incorrect tendency
between the wheels of axle 4

03028 EBS_K1 Dynamic pad trend fault additional axle

03028 EDC FFR2: Nominal torque value too low

03028 EHLA Cab position, swivelling is taking too long

03028 KSM CAN data bus: Time overrun when receiving
vehicle management computer message ERC1_RX.

03028 SFFR Engine CAN: Time overrun when receiving
EDC message EDC2

03029 AST CAN data bus retarder check from
secondary retarder, ERC1
(additional heating of the engine,
engine coolant load increase)

03029 EBS SPN undefined

03029 EDC FFR2: Bit error, nominal idling value

03029 EHLA Emergency steering pump, no oil volume

03029 EMOS 'Request engine speed increase in
braking mode' signal

03029 KSM CAN data bus: Time overrun when receiving
tachograph message BAM_MTCO_VIN.

03029 SFFR Engine CAN: Time overrun when receiving
EDC message EDC3

SPN..... Control unit/System..... Fault message

03030..... AST CAN data bus retarder configuration
from secondary retarder,
Ret_Conf driveline retarder configuration

03030..... EBS..... Faulty brake pad wear and retarder relay
output stage checkback

03030..... EDC FFR2: Bit error, idling speed governing parameter ID

03030..... EHLA..... Emergency steering pump

03030..... KSM CAN data bus: Time overrun when receiving
tachograph message P_MTCO_VIN.

03030..... SFFR..... Engine CAN: Time overrun when receiving
EDC message EDC4

03030..... TPM Severe leakage: Severe pressure loss at min.
one tyre approx. 200 mbar/h

03031..... AST CAN data bus retarder check from
vehicle management computer engine brake torque
'ERC1_ REX retarder percent torque'

03031..... EBS..... Faulty retarder relay output stage checkback

03031..... EDC FFR2: nominal idling speed governing value too high

03031..... EHLA..... Pressure build-up in pressure accumulator too short

03031..... HDS Urea tank temperature

03031..... KSM Adjustment lever angle reduction input
(throttle butterfly reduction request)

03031..... SFFR..... Engine CAN: Time overrun when receiving
EDC message EDC5

03031..... TPM Pressure in left outer tyre, axle 3

03032..... AST CAN data bus engine brake configuration,
'engine retarder configuration'

03032..... EBS..... Faulty brake pad wear output stage checkback

03032..... EDC FFR2: Bit error, stand alone request

03032..... EHLA..... Centring circuit warning

03032..... KSM Signal frequency at adjustment lever angle reduction
input (throttle butterfly reduction request)

03032..... SFFR..... Engine CAN: Time overrun when receiving
EDC message EngineConfig

03032..... TPM Pressure in left inner tyre, axle 3

03033..... AST CAN data bus engine brake configuration,
'engine retarder configuration'

SPN..... Control unit/System..... Fault message

03033..... EBS..... Invalid checkback signal for the yellow warning light

03033..... EDC..... FFR2: Bit error, start request

03033..... EHLA..... Centring circuit

03033..... KSM..... CAN data bus: Time overrun when receiving
body CAN message KSM2_A.

03033..... SFFR..... MMDS CAN: Time overrun when receiving
MMDS message TSC1-FME.

03033..... TPM..... Pressure in right inner tyre, axle 3

03034..... EBS..... Invalid checkback signal for the red warning light

03034..... EDC..... FFR2: Bit error, engine stop request

03034..... EHLA..... Actuator test of axle behaviour in centring circuit,
implausible

03034..... KSM..... Power take-off output

03034..... SFFR..... MMDS CAN: Time overrun when receiving
MMDS message Time/Date

03034..... TPM..... Pressure in right outer tyre, axle 3

03035..... EBS..... Electrical power supply axle modulator

03035..... EDC..... FFR2: reserved Bits & Bytes

03035..... EHLA..... Actuator test of pressure behaviour in centring circuit

03035..... KSM..... CAN data bus: Time overrun when receiving
retarder message ERC1_RD.

03035..... SFFR..... MMDS CAN: Time overrun when receiving
MMDS message VehDistance

03036..... CNG..... Vehicle management computer message 2

03036..... EBS..... Short-circuit on one of the module output stages

03036..... EDC..... FFR2: Timeout

03036..... KSM..... CAN data bus: Time overrun when receiving
retarder message ERC1_RE.

03037..... EBS..... Vehicle dynamics control steering angle sensor
electrical power supply

03037..... EDC..... FFR3: Bit error, pedal value sensor position

03037..... KSM..... CAN data bus: Time overrun when
receiving user-definable message FREI_1.

03038..... EBS..... Interaxle lock

03038..... EDC..... FFR3: Bit error, standstill info.

03038..... KSM..... CAN data bus: Time overrun when
receiving user-definable message FREI_2.

SPN..... Control unit/System..... Fault message

03039..... EBS..... Lock relay, front axle
03039..... EDCFFR3: reserved Bits & Bytes
03039..... KSMCAN data bus: Time overrun when
receiving user-definable message FREI_3.
03040..... CNGVehicle management computer message 3
03040..... EBS..... Display bus-stop brake
03040..... EDC FFR3: Timeout
03040..... EHLA..... Angle encoder configuration
03040..... KSMCAN data bus: Time overrun when
receiving user-definable message FREI_4.
03041..... EBS.. Engine interface, adjustment lever angle increase input,
permanently low, > 400 ms
03041..... EDCDM4 request frequency too high (docu. page 172)
03041..... EHLA..... Angle encoder supply
03041..... TPM Pressure in left outer tyre, axle 4
03042..... EBS.. Engine interface, adjustment lever angle increase input,
permanently high, > 400 ms
03042..... EDC FFR2: Input shaft speed invalid
03042..... EHLA..... Angle encoder, steering axle 1, differential
03042..... KSM CAN data bus: Time overrun when receiving FFR
(vehicle management computer) message Fuel_Eco.
03042..... TPM Pressure in left inner tyre, axle 4
03043..... EBS.. Engine interface, adjustment lever angle increase input,
frequency > 220 Hz
03043..... EDC Fault memory info., timeout, message location 10
03043..... EHLA..... Angle encoder, steering axle 1, total voltage
03043..... TPM Pressure in right inner tyre, axle 4
03044..... CNG Lambda control adaptation additive (bank 1)
03044..... EBS.. Engine interface, adjustment lever angle increase input,
mark-to-space ratio > 95 %
03044..... EHLA..... Angle encoder, steering axle 1
03044..... TPM Pressure in right outer tyre, axle 4
03045..... CNG Starter control: Blocked
03045..... EBS.. Engine interface, adjustment lever angle increase input,
mark-to-space ratio < 5 %
03045..... EDC Starter activation defective
03045..... EHLA..... Angle encoder, steering axle 1, track 1

SD 812a en

Page 38 of 203

SPN..... Control unit/System..... Fault message

03046..... EBS.. Engine interface, adjustment lever angle increase input,
mark-to-space ratio > 95 %

03046..... EDC Atmospheric pressure detection

03046..... EHLA.....Angle encoder, steering axle 1, track 2

03047..... EBS.. Engine interface, adjustment lever angle increase input,
permanently low or high 80 – 400 ms

03047..... EDC Overrun test gate array monitoring module

03047..... EHLA.....Angle encoder, steering axle 2, differential

03048..... EDCOverrun test undervoltage monitoring

03048..... EHLA..... Angle encoder, steering axle 2, total voltage

03049..... AST Y1 clutch brake

03049..... EBS..... CAN data bus driveline, receive time exceeded

03049..... EDC Overrun test overvoltage monitoring

03049..... EHLA..... Angle encoder, steering axle 2

03050..... AST Small valve for opening the clutch

03050..... EBS..... CAN data bus driveline, bus off

03050..... ECASControl unit, supply voltage

03050..... EDCAfter-run test, zero quantity

03050..... EHLA.....Angle encoder, steering axle 2, track 1

03051..... ASTSmall valve for closing the clutch

03051..... EBS..... CAN data bus driveline, receive time exceeded in
EEC1 message from the EDC

03051..... ECAS Operator unit data

03051..... EDC After-run test, MES1 output

03051..... EHLA.....Angle encoder, steering axle 2, track 2

03051..... TPM Pressure in left outer tyre, axle 5

03052..... AST Large valve for opening the clutch

03052..... EBS..... CAN J 1939 receive time exceeded in
message EEC2 from the EDC

03052..... ECAS Operator unit clock

03052..... EDC Timeout, message location 5

03052..... EHLA.....Angle encoder, steering axle 3, differential

03052..... TPM Pressure in left inner tyre, axle 5

03053..... ASTLarge valve for closing the clutch

03053..... EBS..... CAN J 1939 receive time exceeded message CFG_E

03053..... ECAS Operator unit 2 data

03053..... EDC Timeout, message location 6

SPN..... Control unit/System..... Fault message

03053..... EHLA..... Angle encoder, steering axle 3, total voltage
03053..... TPM Pressure in right inner tyre, axle 5
03054..... ECAS Operator unit 2 clock
03054..... EDC Timeout, message location 7
03054..... EHLA..... Angle encoder, steering axle 3
03054..... TPM Pressure in right outer tyre, axle 5
03055..... EDC Timeout, message location 14
03055..... EHLA..... Angle encoder, steering axle 3, track 1
03056..... EBS..... CAN data bus driveline, receive time exceeded in
ERC1_D message from retarder
03056..... EDCChecksum HW calibration date in serial EEPROM
03056..... EHLA..... Angle encoder, steering axle 3, track 2
03057..... EBS..... CAN data bus driveline, receive time exceeded in
ERC1_E message from retarder
03057..... EDCSer. EEPROM data not equal to checksum
03057..... EHLA..... Angle encoder, steering axle 4, differential
03058..... EBS..... CAN data bus driveline, receive time exceeded in
ERC1_EX message from
vehicle management computer
03058..... EDC Ser. EEPROM: Data main relay monitoring checksum
03058..... EHLA..... Angle encoder, steering axle 4, total voltage
03059..... AST Checkback power take-off 1
03059..... EBS..... CAN data bus driveline, receive time exceeded in
'High Resolution Vehicle Distance' message
from tachograph
03059..... EDC Ser. EEPROM: Data error memory checksum
03059..... EHLA..... Angle encoder, steering axle 4
03060..... AST Checkback power take-off 2
03060..... EBS..... CAN data bus driveline, receive time exceeded in
'Supply pressure' message from the ECAM
03060..... EDC . Ser. EEPROM: Data operating hours counter checksum
03060..... EHLA..... Angle encoder, steering axle 4, track 1
03060..... FFR Engine CAN sending message timeout (time overrun).
03061..... AST Switch off power take-off 1
03061..... EBS..... CAN data bus driveline, receive time exceeded
in EEC3 message from the EDC
03061..... ECAS Interruption in communication

SD 812a en

Page 40 of 203

SPN..... Control unit/System..... Fault message

03061 EDC Ser. EEPROM: Actuator test checksum

03061 EHLA.....Angle encoder, steering axle 4, track 2

03061 FFR CAN data bus: Time overrun when receiving
EDC message engine configuration.

03062 ASTSwitch off power take-off 2

03062 EBS CAN data bus driveline, receive time exceeded in
'Cruise Control/Vehicle Speed' message from
the EDC via vehicle management computer

03062 ECAS CAN message VSC1

03062 EDC Ser. EEPROM: Starter monitoring checksum

03062 EHLA..... Angle encoder, front axle, differential

03062 FFR CAN data bus: Time overrun when receiving
EDC message EDC1.

03063 ASTSwitch on power take-off 1

03063 EBS CAN data bus driveline, receive time exceeded
in vehicle weight measurement message
from the ECAS

03063 ECAS CAN message EEC1

03063 EDC After-run not completed

03063 EHLA.....Angle encoder, front axle, total voltage

03063 FFR CAN data bus: Time overrun when receiving
EDC message EDC2.

03064 ASTSwitch on power take-off 2

03064 EBS CAN data bus driveline, values for vehicle weight
in the 'Vehicle Weight' message from
the ECAS outside the range

03064 ECAS CAN message EBC2

03064 EDC Stand alone mode EDC

03064 EHLA..... Angle encoder, front axle

03064 FFR BotCAN data bus: Time overrun when receiving
EDC message EDC3.

03065 EBS CAN data bus driveline, receive time exceeded
in TSC1_ACC message from the ACC

03065 ECAS CAN message FFR_1

03065 EDC Triggering individual operation

03065 EHLA..... Angle encoder, front axle, track 1

SPN..... Control unit/System..... Fault message

03065..... FFR CAN data bus: Time overrun when receiving
EDC message EDC4.

03066..... EBS Driveline CAN databus, receive time exceeded
for EEC2 message from the EDC

03066..... ECAS CAN message ECAM_1

03066..... EDC Time after start

03066..... EHLA Angle encoder, front axle, track 2

03066..... FFR CAN data bus: Time overrun when receiving
EDC message EDC5.

03067..... EBS CAN data bus driveline, receive time exceeded
in TCO1 message from tachograph

03067..... ECAS CAN message EBS (axle load, driven axle)

03067..... EDC Self-test

03067..... EHLA Angle encoder, joystick, differential

03068..... EBS CAN data bus driveline, values in
'TCO1 Vehicle Speed' message from
tachograph not plausible

03068..... ECAS CAN message EBC5

03068..... EDC Monitoring module defective

03068..... EHLA Angle encoder, joystick, total voltage

03069..... EBS CAN J 1939 receive time exceeded message TD

03069..... ECAS CAN message EBC1

03069..... EDC Redundant speed monitoring

03069..... EHLA Angle encoder, joystick

03070..... EBS CAN J1939 receive time exceeded in message ETC1
from the vehicle management computer

03070..... ECAS Incorrect CAN message time and date

03070..... EDC Status of plausibility violation

03070..... EHLA Angle encoder, joystick, track 1

03071..... EBS CAN J1939 receive time exceeded in message ETC2
from the vehicle management computer

03071..... EDC Operating noise analysis

03071..... EHLA Angle encoder, joystick, track 2

03072..... EBS Driveline CAN databus, receive time exceeded
for ETC2 message from VMC

03072..... EDC Status of defective cylinders

03072..... EHLA Speed signals, differential

SD 812a en

SPN..... Control unit/System..... Fault message

03073..... EBS..... Driveline CAN databus, receive time exceeded
03073..... EDC..... Amount violation sign
03073..... EHLA..... Speed signal parameter
03074..... EBS..... Driveline CAN databus, receive time exceeded
03074..... EBS... CAN J 1939 receive time exceeded message AS1-ZBR
03074..... ECAS..... Incorrect CAN message display instrument panel
03074..... EDC..... ID number FFR
03074..... EHLA..... Can message 'Wheel speed information 2'
03075..... EBS..... Driveline CAN databus, receive time exceeded
03075..... ECAS..... Incorrect CAN message (ASC_2C)
03075..... EDC..... Fuel pressure sensor (phys.)
03076..... CNG..... Immobiliser: No quantity due to
incorrect vehicle management computer ID
03076..... EBS..... Driveline CAN databus, receive time exceeded
03076..... ECAS..... Incorrect CAN message (ASC_2A)
03076..... EDC..... Immobiliser: No quantity due to
incorrect vehicle management computer ID
03076..... RAS..... Oil level check
03077..... EBS..... CAN data bus driveline, message XBR (ACC)
03077..... ECAS..... Incorrect CAN message (ASC_2B)
03077..... EDC..... Immobiliser: No quantity due to
vehicle management computer ID being
'not ready' for too long
03077..... EHLA..... CAN message 'Tachograph'
03077..... RAS..... Comparison between tachometer / EBC speed signal
03078..... EBS..... CAN data bus driveline, message ETC7
03078..... ECAS..... Incorrect CAN message (ASC_6A)
03078..... EDC..... Immobiliser: Invalid FR ID after quantity enable
03078..... RAS..... CAN signal speed speedometer
03079..... ECAS..... Incorrect CAN message (ASC_6B)
03079..... EDC..... Governor linkage position
03080..... EBS..... Impermissible signal C CVS (parking brake)
03080..... ECAS..... Incorrect CAN message door status
03080..... EDC..... ID number of EDC
03080..... EHLA..... CAN message C CVS
03080..... FFR.. Driveline CAN sending message timeout (time overrun).
03081..... EBS..... Impermissible signal C CVS (clutch)

SPN..... Control unit/System..... Fault message

03081 ECAS Incorrect CAN message TCO 1
03081 EDC Charge air pressure governor shut-off
03081 FFR CAN data bus: Time overrun when receiving
EBS message EBC1.
03081 RAS CAN signal road speed EBC
03082 CNG Oil pressure sensor plausibility
03082 EBS Impermissible signal EEC1 (rated torque)
03082 ECAS Incorrect CAN message mileage reading (km)
03082 EDC Oil pressure sensor plausibility
03082 FFR CAN data bus: Time overrun when receiving
EBS message EBC2.
03082 RAS CAN signal engine speed
03083 EBS Impermissible signal EEC1 (actual torque)
03083 EDC Fuel pressure sensor plausibility
03083 EHLA Speed signal 1
03083 FFR CAN data bus: Time overrun when receiving
retarder message ERC1_RD.
03083 RAS CAN signal weight
03084 EBS Impermissible signal EEC1 (engine revs)
03084 EDC Stop position test, governor linkage
03084 EHLA Speed signal 2
03084 FFR CAN data bus: Time overrun when receiving
EBS message EBC3.
03084 RAS CAN signal lifting axle
03085 EBS Impermissible signal EEC2 (idling speed switch)
03085 EDC FFR3: Vehicle distance invalid
03085 EHLA Speed signal 3
03085 RAS CAN signal parking brake
03086 CNG Monitoring exhaust gas recirculation throughflow
03086 EBS Impermissible signal EEC2 (accelerator pedal position)
03086 EDC Exhaust gas recirculation actuator position limit
03086 EDC_7 Exhaust gas recirculation actuator position limit
03086 EHLA Speed signals
03086 FFR CAN data bus: Time overrun when receiving
Astronic message ETC1.
03086 RAS CAN signal bus transmitter/receiver
03087 EBS Impermissible signal EEC3 (nom. friction torque)

SD 812a en

Page 44 of 203

SPN..... Control unit/System..... Fault message

03087	EDC	Oil pressure sensor
03087	EHLA	Speed signals, differential
03087	FFR	CAN data bus: Time overrun when receiving Astronic message ETC2.
03087	RAS	Parameter value calibration
03088	EBS	Impermissible signal ERC1_MC (ret. mode)
03088	EDC	Boost pressure sensor
03088	FFR	CAN data bus: Time overrun when receiving tachograph message TCO1.
03089	EBS	Impermissible signal ERC1_MC (ret. torque)
03089	EDC	Charge air temperature sensor
03089	FFR	CAN data bus: Time overrun when receiving central on-board computer message Veh_Dist.
03090	AST	ECU (communication controllers 1 + 2)
03090	EBS	Impermissible signal ETC1 (driveline)
03090	EHLA	Axle monitoring parameter
03090	FFR	CAN data bus: Time overrun when receiving central on-board computer message Time/Date.
03091	AST	CAN data bus EBS1 from EBS, EBC1
03091	EBS	Impermissible signal ETC2 (gear information)
03091	EDC	Cooling water temperature sensor
03091	EHLA	Inverse movement on steering axle 1
03091	EMOS	Timeout of EBC1 message
03091	FFR	CAN data bus: Time overrun when receiving retarder message RE_Fluids.
03092	EBS	Impermissible signal SP (reservoir circuit 1)
03092	EDC	Time/date: Timeout,
03092	EHLA	System deviation on steering axle 1
03092	FFR	CAN data bus: Time overrun when receiving retarder message RD_Fluids.
03093	EBS	Impermissible signal SP (reservoir circuit 2)
03093	EDC	TIME/DATE: reserved Bits & Bytes
03093	EHLA	Large system deviation on steering axle 1
03093	FFR	CAN data bus: Time overrun when receiving Astronic message TSC1_TE.
03094	EBS	Impermissible signal CFG_MC (ref. ret. torque)
03094	EDC	Timeout message position 8

SPN..... Control unit/System..... Fault message

03094..... EHLA..... Inverse movement on steering axle 2

03094..... FFR..... CAN data bus: Time overrun when receiving
EBS message TSC1_AE.

03095..... EBS..... Impermissible signal CFG_E (ref. motor torque)

03095..... EDC..... Nominal quantity value percentage

03095..... EHLA..... System deviation on steering axle 2

03095..... FFR..... CAN data bus: Time overrun when receiving
EBS message Veh_weight.

03096..... EBS..... CAN data bus driveline, 'Lighting on trailer 1 detected'
in message AS1_ZBR

03096..... EDC..... Accelerator pedal

03096..... EHLA..... Large system deviation on steering axle 2

03096..... FFR..... CAN data bus: Time overrun when receiving
central on-board computer message AUX-STAT-ZBR1.

03097..... EBS..... CAN data bus driveline,
'Actual Inner Wheel Steering Angle' in message ESC1
(steering angle)

03097..... EDC..... Fuel temperature sensor

03097..... EHLA..... Inverse movement on steering axle 3

03097..... FFR..... CAN data bus: Time overrun when receiving
ECAS message ECAS1.

03098..... EBS..... CAN data bus driveline, 'Steering axle status'
in message ESC1

03098..... EDC..... Control path: Loose contact

03098..... EHLA..... System deviation on steering axle 3

03098..... FFR..... CAN databus: Time overrun when
receiving message ERC1_RE.

03099..... AST..... Output speed 1

03099..... EBS..... CAN data bus driveline, 'Percentage clutch slip'
in message ETC1

03099..... EDC, Common Rail..... Fuel pressure sensor - rail pressure

03099..... EDC, not Common Rail..... Fuel pressure sensor

03099..... EHLA..... Large system deviation on steering axle 3

03099..... FFR..... CAN data bus: Time overrun when receiving
ECAM message ECAM1.

03100..... CRT..... Exhaust differential pressure via the CRT filter

03100..... EBS..... Pressure control module, left front axle, no fault

SD 812a en

Page 46 of 203

SPN..... Control unit/System..... Fault message

03100	EDC	Fuel supply pressure sensor
03100	EHLA	Inverse movement on steering axle 4
03100	FFR	CAN data bus: EDC message EDC1, byte 0
03101	AST	Output speeds 1+ 2
03101	CRT	Exhaust temperature in front of the CRT filter
03101	EBS	Pressure control module, left front axle, interruption, short-circuit wheel sensor A
03101	EBS_K1	Wheel sensor front axle left
03101	ECAS	Travel sensor left REAR AXLE
03101	ECAS2	Height sensor FRONT AXLE left
03101	EHLA	System deviation on steering axle 4
03101	EMOS	Gearbox output signal
03101	FFR	CAN data bus: EDC message EDC1, byte 1
03102	AST	Gearbox input and output speeds
03102	CNG	Exhaust gas recirculation valve output stage
03102	CRT	Current engine torque
03102	EBS	Pressure control module, left front axle, wheel sensor A: Delay too long
03102	ECAS	Travel sensor right REAR AXLE
03102	ECAS2	Height sensor, FRONT AXLE right
03102	EDC	Exhaust gas recirculation system output stage
03102	EHLA	Large system deviation on steering axle 4
03102	FFR	CAN data bus: EDC message EDC1, byte 2
03102	ZBR2	ZBR power supply
03103	AST	CAN data bus vehicle speed from EDC
03103	CNG	Lambda probe before catalytic converter (bank 1)
03103	CRT	Status of the regeneration logic
03103	EBS	Pressure control module, left front axle, wheel sensor A: Moving off fault
03103	ECAS	Travel sensor FRONT AXLE
03103	ECAS2	CENTRE AXLE height sensor
03103	EHLA	Calibration mode when vehicle moving
03103	FFR	CAN data bus: EDC message EDC1, bytes 3 and 4
03103	OBDU	Tension V-belt
03103	ZBR2	Analog ground
03104	CNG	Lambda probe heating before catalytic converter (bank 1)

SPN..... Control unit/System..... Fault message

03104..... EBS..... Pressure control module, left front axle,
wheel sensor A: Clearance too great
03104..... EHLA..... Calibration data steering axle 1
03104..... FFR..... CAN data bus: EDC message EDC1, bytes 5 and 6
03104..... ZBR2..... Analog ground
03105..... CNG..... Lambda control adaptation multi (bank 1)
03105..... EBS..... Pressure control module, left front axle,
perpetual control wheel sensor A
03105..... EHLA..... Calibration data steering axle 2
03105..... FFR..... CAN data bus: EDC message EDC1, byte 7
03105..... OBDU..... Water pump V-belt torn
03106..... CNG..... Idling speed control, nominal speed
03106..... EBS..... Pressure control module, left front axle,
long instability wheel sensor A
03106..... EHLA..... Calibration data steering axle 3
03106..... FFR..... CAN data bus: EDC message EDC2, bytes 0 and 1
03106..... OBDU..... Cooling defective:
Water temperature gradient too steep
03107..... AST..... Voltage (clutch sensor)
03107..... CNG..... Total exhaust-relevant errors (ASE)
03107..... EBS..... Pressure control module, left front axle,
pulse ring fault wheel sensor A
03107..... EBS_K1..... Impulse wheel fault front axle left
03107..... EHLA..... Calibration data steering axle 4
03107..... FFR..... CAN data bus: EDC message EDC2, bytes 2 and 3
03107..... ZBR2..... Ignition ON (relay tl. 15)
03108..... CNG..... Gas system pressure
03108..... EBS..... Pressure control module, left front axle,
fault on lifting axle wheel sensor A
03108..... EHLA..... Calibration data front axle
03108..... FFR..... CAN data bus: EDC message EDC2, bytes 4 and 5
03108..... ZBR2..... Electrical battery master switch
03109..... EBS.... Brake/impulse wheel/sensor combination front axle left
03109..... EHLA..... Calibration data joystick
03109..... FFR..... CAN data bus: EDC message EDC2, bytes 6 and 7
03109..... HYD..... Water pump malfunction or fuse blown
03109..... ZBRO..... Ignition lock radio position

SD 812a en

SPN..... Control unit/System..... Fault message

03110..... CNG Engine speed sensor crankshaft toothed disc
03110..... EBS Pressure control module, left front axle
03110..... EHLA Number of CAN objects
03110..... FFR CAN data bus: EDC message EDC3, bytes 0 and 1
03110..... HYD Vehicle blower control discontinuity
03110..... ZBRO Ignition lock ignition on
03111..... AST CAN data bus message timeout time/date information
from central on-board computer ZBR2, TIME/DATE
03111..... CNG Reference mark sensor
03111..... EBS Pressure control module, left front axle,
interruption, short-circuit wheel sensor B
03111..... EHLA CAN communication
03111..... EMOS Timeout of Time_Date message
03111..... FFR CAN data bus: EDC message EDC3, bytes 2 and 3
03111..... TPM Slight leakage from left outer tyre, axle 1
03111..... ZBR2 Ignition lock starter tl. 50
03112..... AST CAN data bus signal error time/date information from
central on-board computer ZBR2, TIME/DATE
03112..... CNG Phase sensor
03112..... EBS Pressure control module, left front axle,
wheel sensor B: Delay too long
03112..... EHLA CAN data has been falsified
03112..... FFR CAN data bus: EDC message EDC3, byte 4
03112..... TPM Slight leakage from left inner tyre, axle 1
03112..... ZBRO Ignition lock ignition off
03113..... AST CAN data bus message timeout retarder configuration,
Ret_Conf (driveline retarder configuration)
03113..... EBS Pressure control module, left front axle,
wheel sensor B: Moving off fault
03113..... EHLA CAN communication
03113..... FFR CAN data bus: EDC message EDC3, byte 5
03113..... TPM Slight leakage from right inner tyre, axle 1
03113..... ZBRO Battery undervoltage
03114..... EBS Pressure control module, left front axle,
wheel sensor B: Clearance too great
03114..... EHLA Steering wheel sensor - not used
03114..... FFR CAN data bus: EDC message EDC3, byte 6

SPN..... Control unit/System..... Fault message

03114.....	TPM	Slight leakage from right outer tyre, axle 1
03114.....	ZBRO	Battery master switch
03115.....	EBS.....	Pressure control module, left front axle, perpetual control wheel sensor B
03115.....	EHLA.....	Steering wheel sensor - operating
03115.....	FFR	CAN data bus: EDC message EDC3, byte 7
03115.....	ZBRO	Battery main relay
03116.....	EBS.....	Pressure control module, left front axle, long instability wheel sensor B
03116.....	FFR	CAN data bus: EDC message EDC4, byte 0
03116.....	ZBRO	Ignition on
03117.....	AST	Clutch self-adjustment faulty
03117.....	EBS.....	Pressure control module, left front axle, pulse ring fault wheel sensor B
03117.....	FFR	CAN data bus: EDC message EDC4, byte 3
03117.....	ZBRO	Ignition on
03118.....	AST	Clutch does not open
03118.....	EBS.....	Pressure control module, left front axle, fault on lifting axle wheel sensor B
03118.....	EMOS	Clutch regulator switched on but no clutch opening valve available for opening clutch
03118.....	FFR	CAN data bus: EDC message EDC4, byte 3
03118.....	ZBRO	Ignition on check
03119.....	AST	Clutch does not close / does not transmit torque
03119.....	CNG	Altitude sensor
03119.....	EBS.....	Pressure control module, left front axle
03119.....	EMOS	Clutch regulator switched on but no clutch closing valve available for closing clutch
03119.....	FFR	CAN data bus: EDC message EDC4, byte 4
03119.....	ZBRO	Battery master switch 1
03120.....	AST	Mechanical fault (small valve for opening the clutch)
03120.....	EBS.....	Electrical power supply pad wear sensor (front axle left or front axle)
03120.....	EHLA.....	Joystick
03120.....	FFR	CAN data bus: EDC message EDC4, bytes 5 and 6
03120.....	ZBRO	Battery master switch 3
03121.....	AST	Mechanical fault (small valve for closing the clutch)

SPN..... Control unit/System..... Fault message

03121	CNG	Ignition output stage cylinder 1
03121	EBS	Pressure control module, left front axle, pad wear sensor A outside permitted value range
03121	EHLA	Joystick both sides
03121	FFR	CAN data bus: EDC message EDC4, byte 7
03121	TPM	Slight leakage from left outer tyre, axle 2
03121	ZBRO	Battery master switch 4
03122	AST	Mechanical fault (large valve for opening the clutch)
03122	CNG	Ignition output stage cylinder 2
03122	EBS	Pressure control module, left front axle, pad wear sensor B outside permitted value range
03122	EHLA	Joystick, sustained operation
03122	FFR	CAN data bus: EDC message EDC4, byte 8
03122	TPM	Slight leakage from left inner tyre, axle 2
03122	ZBRO	Starting assistance
03123	AST	Mechanical fault (large valve for closing the clutch)
03123	CNG	Ignition output stage cylinder 3
03123	EBS	Pressure sensor (front axle left or front axle) outside valid range
03123	FFR	CAN data bus: EDC message EDC5, byte 1
03123	TPM	Slight leakage from right inner tyre, axle 2
03123	ZBRO	Starting assistance check
03124	AST	Clutch travel fault
03124	CNG	Ignition output stage cylinder 4
03124	EBS	Pressure control module, left front axle, time for 'Current pressure' inquiry too long
03124	EHLA	Configuration of axle count
03124	EMOS	Clutch travel sensor signal
03124	FFR	CAN data bus: EDC message EDC5, byte 2
03124	TPM	Slight leakage from right outer tyre, axle 2
03124	ZBRO	Ignition on switched off
03125	AST	Pressure limiting valve fault
03125	CNG	Ignition output stage cylinder 5
03125	EBS	Pressure control module, left front axle, poor ventilation
03125	EHLA	Locking monitoring steering axle 1
03125	FFR	CAN data bus: EDC message EDC5, bytes 3 and 4
03126	AST	Pressure signal faulty

SPN..... Control unit/System..... Fault message

- 03126..... CNG Ignition output stage cylinder 6
- 03126..... EBS Pressure control module, left front axle,
excessive pressure during pulse test
- 03126..... EHLA..... Steering axle 1 has moved out of locking position
- 03126..... FFR CAN data bus: EDC message EDC5, byte 5
- 03127..... AST ECU temperature fault
- 03127..... EBS Pressure control module, left front axle,
residual pressure after braking
- 03127..... EHLA..... Locking monitoring steering axle 2
- 03127..... EMOS 'Temperature sensor next to processor' signal
- 03127..... FFR CAN data bus: EDC message EDC5, bytes 5 and 6
- 03128..... AST Oil temperature signal fault
- 03128..... EBS Pressure control module, left front axle,
pressure sensor fault without braking
- 03128..... EHLA..... Steering axle 2 has moved out of locking position
- 03128..... FFR CAN data bus: EDC message EDC5, byte 7
- 03129..... AST No signal from shift transmitter main gearbox
- 03129..... EBS Pressure control module, left front axle
- 03129..... EHLA..... Locking monitoring steering axle 3
- 03129..... FFR CAN data bus: EDC message engine configuration,
bytes 0 and 1
- 03130..... EBS Pressure control module, left front axle,
wheel sensor IC defective
- 03130..... EHLA..... Steering axle 3 has moved out of locking position
- 03130..... FFR CAN data bus: EDC message engine configuration,
byte 2
- 03131..... EBS Backup valve checkback (front axle left or front axle)
- 03131..... EHLA..... Locking monitoring steering axle 4
- 03131..... FFR CAN data bus: EDC message engine configuration,
bytes 3 and 4
- 03131..... TPM Slight leakage from left outer tyre, axle 3
- 03132..... AST Shift transmitter self-adjustment fault
- 03132..... EBS Intake valve checkback (ABS valve front axle left)
- 03132..... EHLA..... Steering axle 4 has moved out of locking position
- 03132..... FFR CAN data bus: EDC message engine configuration,
byte 5
- 03132..... TPM Slight leakage from left inner tyre, axle 3

SPN..... Control unit/System..... Fault message

03133..... AST Gate selection transmitter signal

03133..... EBS..... Pressure control module, left front axle, faulty intake
and backup valve checkback

03133..... EHLA..... Actuator test steering axle 1

03133..... FFR CAN data bus: EDC message engine configuration,
bytes 6 and 7

03133..... TPM Slight leakage from right inner tyre,
axle 3

03134..... EBS..... Exhaust valve checkback (ABS valve front axle left)

03134..... EHLA..... Actuator test steering axle 2

03134..... FFR CAN data bus: EDC message engine configuration,
byte 8

03134..... TPM Slight leakage from right outer tyre, axle 3

03135..... EBS..... Pressure control module, left front axle, faulty outlet
and backup valve checkback

03135..... EHLA..... Actuator test steering axle 3

03135..... FFR CAN data bus: EDC message engine configuration,
bytes 9 and 10

03136..... AST Teach-in fault, gate selection transmitter signal

03136..... EBS..... Exhaust and intake valve checkback
(ABS valve front axle left)

03136..... EHLA..... Actuator test steering axle 4

03136..... FFR CAN data bus: EDC message engine configuration,
byte 11

03137..... AST Range-change group travel sensor signal

03137..... EBS..... Pressure control module, left front axle, faulty outlet
and intake and backup valve checkback

03137..... EHLA..... Digital input parameters

03137..... FFR CAN data bus: EDC message engine configuration,
bytes 12 and 13

03138..... EBS..... Proportional valve (front axle left or front axle)

03138..... EHLA..... Digital input parameters

03138..... FFR CAN data bus: EDC message engine configuration,
byte 14

03139..... EBS..... ABS valves (front axle)

03139..... EHLA..... Analog inputs

SPN..... Control unit/System..... Fault message

03139..... FFR CAN data bus: EDC message engine configuration,
bytes 15 and 16

03140..... AST Teach-in fault, range-change group travel sensor

03140..... EBS..... Pressure control module, left front axle,
no CAN reception from module

03140..... FFR CAN data bus: EDC message engine configuration,
bytes 17 and 18

03141 AST No travel sensor signal from splitter

03141 CNG Total exhaust-relevant errors (ASE)
cylinder 1, exhaust-relevant

03141 EBS..... Pressure control module, left front axle,
software incompatibility between control unit
and pressure control module

03141 EHLA..... Digital CAN input parameters

03141 FFR CAN data bus: EDC message engine configuration,
bytes 19 and 20

03141 TPM Slight leakage from left outer tyre, axle 4

03142..... CNG Total exhaust-relevant errors (ASE)
cylinder 2, exhaust-relevant

03142..... EBS..... Pressure control module, left front axle,
12/24 volt incompatibility between control unit and
pressure control module

03142..... FFR CAN data bus: EDC message engine configuration,
bytes 21 and 22

03142..... TPM Slight leakage from left inner tyre, axle 4

03143..... CNG Total exhaust-relevant errors (ASE)
cylinder 3, exhaust-relevant

03143..... EBS..... Pressure control module, left front axle,
high cycle protection intake valve active,
pressure < 4 bar

03143..... EHLA..... Digital CAN output parameters

03143..... FFR CAN data bus: EDC message engine configuration,
byte 23

03143..... HYD Overheating sensor discontinuity

03143..... TPM Slight leakage from right inner tyre, axle 4

03144..... AST Self-adjustment fault, travel sensor signal from splitter

SPN..... Control unit/System..... Fault message

03144..... CNG Total exhaust-relevant errors (ASE)
cylinder 4, exhaust-relevant

03144..... EBS Pressure control module, left front axle,
arithmetic test not successful

03144..... EHLA..... Prop. valve steering axle 1,
incorrect movement direction

03144..... TPM Slight leakage from right outer tyre, axle 4

03145..... AST Range-change group does not disengage

03145..... CNG Total exhaust-relevant errors (ASE)
cylinder 5, exhaust-relevant

03145..... EBS Pressure control module, left front axle,
wheel compensation fault wheel sensor A

03145..... EHLA..... Prop. valve steering axle 1, deviation

03146..... AST Changeover fault with range-change group shift

03146..... CNG Total exhaust-relevant errors (ASE)
cylinder 6, exhaust-relevant

03146..... EBS Pressure control module, left front axle,
wheel compensation fault wheel sensor B

03146..... EHLA..... Prop. valve steering axle 2,
incorrect movement direction

03147..... AST Range-change group does not engage

03147..... EBS Pressure control module, left front axle,
electrical power supply fault, axle load sensor

03147..... EHLA..... Prop. valve steering axle 2, deviation

03148..... AST Splitter does not disengage

03148..... EBS Pressure control module, left front axle,
pressure differential on pressure control module pair,
front axle

03148..... EHLA..... Prop. valve steering axle 3,
incorrect movement direction

03149..... AST Changeover fault with splitter shift

03149..... EBS Pneumatic redundant path front axle

03149..... EHLA..... Prop. valve steering axle 3, deviation

03150..... AST Splitter group does not engage

03150..... EBS Pressure control module, right front axle, no fault

03150..... EHLA..... Prop. valve steering axle 4,
incorrect movement direction

SPN..... Control unit/System..... Fault message

03150..... FFRCAN data bus: EBS message EBC1, byte 0
03151..... ASTSelector cylinder does not open
03151..... EBS..... Pressure control module, right front axle,
interruption, short-circuit wheel sensor A
03151..... ECASPressure sensor left REAR AXLE
03151..... ECAS2 Pressure sensor FRONT AXLE left
03151..... EHLA..... Prop. valve steering axle 4, deviation
03151..... FFRCAN data bus: EBS message EBC1, byte 1
03151..... TPMSlight leakage from left outer tyre, axle 5
03152..... ASTGate shift fault
03152..... EBS..... Pressure control module, right front axle,
wheel sensor A: Delay too long
03152..... ECASPressure sensor right REAR AXLE
03152..... ECAS2 Pressure sensor FRONT AXLE right
03152..... FFRCAN data bus: EBS message EBC1, byte 2
03152..... TPMSlight leakage from left inner tyre, axle 5
03153..... AST Selector cylinder does not close
03153..... EBS..... Pressure control module, right front axle,
wheel sensor A: Moving off fault
03153..... ECAS Pressure sensor FRONT AXLE
03153..... ECAS2Pressure sensor CENTRE AXLE
03153..... FFRCAN data bus: EBS message EBC1, byte 3
03153..... TPMSlight leakage from right inner tyre, axle 5
03154..... ASTMain gearbox gear does not disengage
03154..... EBS..... Pressure control module, right front axle,
wheel sensor A: Clearance too great
03154..... FFRCAN data bus: EBS message EBC1, byte 4
03154..... TPM Slight leakage from right outer tyre, axle 5
03155..... AST Main gearbox gear does not engage
03155..... EBS..... Pressure control module, right front axle,
perpetual control wheel sensor A
03155..... FFRCAN data bus: EBS message EBC2, bytes 0 and 1
03155..... HYD Malfunction display short circuit
03156..... AST Wrong gear selected in main gearbox
03156..... EBS..... Pressure control module, right front axle,
long instability wheel sensor A
03156..... FFRCAN data bus: EBS message EBC2, byte 2

SD 812a en

Page 56 of 203

SPN..... Control unit/System..... Fault message

03157 EBS Pressure control module, right front axle,
pulse ring fault wheel sensor A

03157 ECAS Pressure sensor, brake

03157 FFR CAN data bus: EBS message EBC2, byte 3

03158 AST Shift sensor signal continuously active

03158 EBS Pressure control module, right front axle,
fault on lifting axle wheel sensor A

03158 ECAS Pressure sensor lifting axle

03158 FFR CAN data bus: EBS message EBC2, byte 4

03159 AST Range-change group shift sensor signal
continuously active

03159 EBS .. Brake/impulse wheel/sensor combination front axle right

03159 FFR CAN data bus: EBS message EBC2, byte 5

03160 AST Splitter shift sensor signal continuously active

03160 EBS Pressure control module, right front axle

03160 FFR CAN data bus: EBS message EBC2, byte 6

03161 EBS Pressure control module, right front axle,
interruption, short-circuit wheel sensor B

03161 EHLA Recirculating/centring valve

03161 FFR CAN data bus: EBS message EBC2, byte 7

03162 EBS Pressure control module, right front axle,
wheel sensor B: Delay too long

03162 EHLA Digital output 2

03162 FFR CAN data bus: EBS message EBC3, byte 0

03163 AST Engine does not react to torque specification

03163 EBS Pressure control module, right front axle,
wheel sensor B: Moving off fault

03163 EHLA Digital output 3

03163 FFR CAN data bus: EBS message EBC3, byte 1

03164 AST CAN data bus electronic engine governor 1
from EDC, EEC1 (accelerator pedal position,
drivers demand engine percent torque)

03164 EBS Pressure control module, right front axle,
wheel sensor B: Clearance too great

03164 EHLA Digital output 4

03164 FFR CAN data bus: EBS message EBC3, byte 2

SPN..... Control unit/System..... Fault message

03165..... EBS..... Pressure control module, right front axle,
perpetual control wheel sensor B

03165..... EHLA..... Digital output 5

03165..... FFR..... CAN data bus: EBS message EBC3, byte 3

03166..... AST..... Permanent idling speed signal

03166..... EBS..... Pressure control module, right front axle,
long instability wheel sensor B

03166..... EHLA..... Digital output 6

03166..... FFR..... CAN data bus: EBS message EBC3, byte 4

03167..... EBS..... Pressure control module, right front axle,
pulse ring fault wheel sensor A

03167..... EHLA..... Digital output 7

03167..... FFR..... CAN data bus: EBS message EBC3, byte 5

03168..... EBS..... Pressure control module, right front axle,
fault on lifting axle wheel sensor B

03168..... EHLA..... Digital output 8

03168..... FFR..... CAN data bus: EBS message EBC3, byte 6

03169..... AST..... Shut-off relay in ECU does not switch off

03169..... EBS..... Pressure control module,
right front axle

03169..... EHLA..... Digital output 9

03169..... FFR..... CAN data bus: EBS message EBC3, byte 7

03170..... AST..... No electrical power supply at terminal 30 or
shut-off relay in ECU does not switch on

03170..... EBS..... Pressure control module, right front axle,
electrical power supply fault, pad wear sensor

03170..... ECAS..... Steering angle sensor

03170..... EHLA..... Digital output 10

03170..... FFR..... CAN data bus: EBS message EBC4, byte 0

03171..... AST..... CAN data bus electronic engine governor 1
from EDC, EEC1
(engine torque, actual engine percent torque)

03171..... CNG..... Charge pressure control valve

03171..... EBS..... Pressure control module, right front axle,
pad wear sensor A outside permitted value range

03171..... EDC..... Boost pressure switch output stage

03171..... EHLA..... Digital output 11

SD 812a en

Page 58 of 203

SPN..... Control unit/System..... Fault message

03171 FFR CAN data bus: EBS message EBC4, byte 1
03172 EBS Pressure control module, right front axle,
pad wear sensor B outside permitted value range
03172 EHLA Digital output 12
03172 FFR CAN data bus: EBS message EBC4, byte 2
03173 EBS Pressure control module, right front axle,
pressure sensor outside permitted value range
03173 EHLA Digital output 13
03173 FFR CAN data bus: EBS message EBC4, byte 3
03174 EBS Pressure control module, right front axle,
time for 'Current pressure' inquiry too long
03174 EHLA Digital output 14
03174 FFR CAN data bus: EBS message EBC4, byte 4
03175 AST Ignition lock signal fault (terminal 15)
03175 EBS Pressure control module, right front axle, poor ventilation
03175 EHLA Digital output 15
03175 FFR CAN data bus: EBS message EBC4, byte 5
03176 EBS Pressure control module, right front axle,
excessive pressure during pulse test
03176 FFR CAN data bus: EBS message EBC4, byte 6
03177 AST CAN data bus driveline
03177 EBS Pressure control module, right front axle,
residual pressure after braking
03177 EMOS BUSOFF vehicle CAN
03177 FFR CAN data bus: EBS message EBC4, byte 7
03178 AST CAN data bus error warning
03178 EBS Pressure control module, right front axle,
pressure sensor fault without braking
03178 FFR CAN data bus: EBS message Veh_weight, byte 0
03179 AST CAN data bus input buffer overrun
03179 EBS Pressure control module, right front axle
03179 FFR CAN data bus: EBS message Veh_weight, bytes 1 and 2
03180 AST CAN data bus electronic engine governor 1
from EDC, EEC1
03180 EBS Pressure control module, right front axle,
wheel sensor IC defective
03180 EMOS Timeout of EEC1 message

SPN..... Control unit/System..... Fault message

03180..... FFR CAN data bus: EBS message Veh_weight, byte 3

03181..... AST CAN data bus electronic engine governor 2
from EDC, EEC2

03181..... CNG Total exhaust-relevant errors (ASE) cylinder 1,
damaging to catalytic converter

03181..... EBS..... Pressure control module, right front axle,
faulty backup valve checkback

03181..... EHLA..... CAN signal 'Position Of Doors'

03181..... EMOS Timeout of EEC2 message

03181..... FFR CAN data bus: Retarder message RET_Conf, byte 0

03182..... AST CAN data bus cruise control/speed from EDC, CCVS

03182..... CNG Total exhaust-relevant errors (ASE) cylinder 2,
damaging to catalytic converter

03182..... EBS..... Pressure control module, right front axle,
faulty intake valve checkback

03182..... EHLA..... CAN signal 'Seconds' in 'Time/Date' message

03182..... EMOS Timeout CcVeh speed message

03182..... FFR CAN data bus: Retarder message RET_Conf, byte 1

03183..... AST CAN data bus engine brake from
vehicle management computer, ERC1_REX

03183..... CNG Total exhaust-relevant errors (ASE) cylinder 3,
damaging to catalytic converter

03183..... EBS..... Pressure control module, right front axle,
faulty intake and backup valve checkback

03183..... EHLA..... CAN signal 'Minutes' in 'Time/Date' message

03183..... FFR CAN data bus: Retarder message RET_Conf,
bytes 2 and 3

03184..... AST CAN data bus retarder from secondary retarder,
ERC1_RD

03184..... CNG Total exhaust-relevant errors (ASE) cylinder 4,
damaging to catalytic converter

03184..... EBS..... Pressure control module, right front axle,
faulty outlet valve checkback

03184..... EHLA..... CAN signal 'Hours' in 'Time/Date' message

03184..... FFR CAN data bus: Retarder message RET_Conf, byte 4

03185..... AST CAN data bus primary retarder WSK, ERC1_RE

SPN..... Control unit/System..... Fault message

03185..... CNG Total exhaust-relevant errors (ASE) cylinder 5,
damaging to catalytic converter

03185..... EBS Pressure control module, right front axle,
faulty outlet and backup valve checkback

03185..... EHLA..... CAN signal 'Day' in 'Time/Date' message

03185..... FFR CAN data bus: Retarder message RET_Conf,
bytes 5 and 6

03186..... AST CAN data bus primary retarder WSK, ERC1_WSK

03186..... CNG Total exhaust-relevant errors (ASE) cylinder 6,
damaging to catalytic converter

03186..... EBS Pressure control module, right front axle,
faulty outlet and intake valve checkback

03186..... EHLA..... CAN signal 'Month' in 'Time/Date' message

03186..... FFR CAN data bus: Retarder message RET_Conf, byte 7

03187..... AST ..CAN data bus primary retarder configuration information

03187..... CNG Total exhaust-relevant errors (ASE), total,
damaging to catalytic converter

03187..... EBS Pressure control module, right front axle,
faulty outlet and intake and backup valve checkback

03187..... EHLA..... CAN signal 'Year' in 'Time/Date' message

03187..... FFR CAN data bus: Retarder message RET_Conf,
bytes 8 and 9

03188..... AST Control unit fault, incorrect interrupt

03188..... CNG Input parameters filling acquisition

03188..... EBS Pressure control module, right front axle

03188..... EHLA..... CAN signal 'Engine Speed'

03188..... FFR CAN data bus: Retarder message RET_Conf, byte 10

03189..... AST Control unit fault, stack watch

03189..... EBS Pressure control module, right front axle

03189..... EHLA..... CAN signal 'Front Axle Speed'

03189..... FFR CAN data bus: Retarder message RET_Conf,
bytes 11 and 12

03190..... AST EOL EEPROM parameter outside valid range

03190..... EBS Pressure control module, right front axle,
no CAN reception from module

03190..... EHLA..... CAN signal 'Tachograph Vehicle Speed'

03190..... FFR CAN data bus: Retarder message RET_Conf, byte 13

SPN..... Control unit/System..... Fault message

03191 AST EOL EEPROM: checksum error

03191 EBS Pressure control module, right front axle,
software incompatibility between control unit
and pressure control module

03191 EHLA CAN signal 'Wheel_BasedVehicleSpeed'

03191 FFR CAN data bus: Retarder message RET_Conf,
bytes 14 and 15

03192 AST Control unit fault – EEPROM access fault

03192 EBS Pressure control module, right front axle,
12/24 volt incompatibility between control unit
and pressure control module

03192 FFR CAN data bus: Retarder message RET_Conf,
bytes 16 and 17

03193 AST ECU temperature too high

03193 EBS Pressure control module, right front axle,
high cycle protection intake valve active,
pressure < 4 bar

03193 EMOS Permitted temperature limit value exceeded

03193 FFR CAN data bus: Retarder message RET_Conf, byte 18

03194 AST Failure of both signal sources for front axle speed

03194 EBS Pressure control module, right front axle,
arithmetic test not successful

03194 EHLA CAN signal 'ASR Engine Control Active Passive'

03194 FFR CAN data bus: Retarder message ERC1_RD, byte 0

03195 EBS Pressure control module, right front axle,
wheel compensation fault wheel sensor A

03195 EHLA CAN signal 'ASR Brake Control Active Passive'

03195 FFR CAN data bus: Retarder message ERC1_RD, byte 1

03196 AST CAN data bus vehicle mileage from
central on-board computer ZBR2, Veh_Dist

03196 EBS Pressure control module, right front axle,
wheel compensation fault wheel sensor B

03196 EHLA CAN signal 'Anti-Lock Braking (ABS) Active'

03196 EMOS Timeout of Veh_Dist message

03196 FFR CAN data bus: Retarder message ERC1_RD, byte 2

03197 EBS Pressure control module, right front axle,
electrical power supply fault, axle load sensor

SPN..... Control unit/System..... Fault message

03197 FFR CAN data bus: Astronic message ETC1, byte 0
03198 AST CAN data bus relative wheel speed from
EBS, EBC2 (WSI) (relative wheel speed)
03198 EBS Pressure control module, right front axle,
pressure differential on
pressure control module pair, front axle
03198 FFR CAN data bus: Astronic message ETC1, bytes 1 and 2
03199 AST CAN data bus wheel speed information
from EBS, EBC2 (WSI)
03199 EBS Pressure control module, right front axle
03199 EMOS Timeout of EBC2 message
03199 FFR CAN data bus: Astronic message ETC1, byte 3
03200 EBS Pressure control module, left rear axle, no fault
03200 ECAS Supply voltage / feedback, solenoid valves
03200 FFR CAN data bus: Astronic message ETC1, byte 4
03201 EBS Pressure control module, left rear axle,
interruption, short-circuit wheel sensor A
03201 EBS_K1 Wheel sensor rear axle left
03201 ECAS Solenoid valve 2/2 left REAR AXLE
03201 EHLA Valve output 1
03201 FFR CAN data bus: Astronic message ETC1, bytes 5 and 6
03201 OBDU Charge air pressure
03201 ZBR2 Low pressure in air filter
03202 EBS Pressure control module, left rear axle,
wheel sensor A: Delay too long
03202 ECAS Solenoid valve 2/2 right REAR AXLE
03202 EHLA Valve output 2
03202 FFR CAN data bus: Astronic message ETC1, byte 7
03203 EBS Pressure control module, left rear axle,
wheel sensor A: Moving off fault
03203 ECAS Solenoid valve 2/2 FRONT AXLE
03203 EHLA Valve output 3
03203 FFR CAN data bus: Astronic message ETC2, byte 0
03203 OBDU Leak in oil pump overflow valve
03204 EBS Pressure control module, left rear axle,
wheel sensor A: Clearance too great
03204 ECAS Solenoid valve 3/3 lower/load lifting/trailing axle

SPN..... Control unit/System..... Fault message

03204..... EHLA..... Valve output 4
03204..... FFR CAN data bus: Astronic message ETC2, bytes 1 and 2
03204..... ZBRO EDC is active
03205..... EBS Pressure control module, left rear axle,
perpetual control wheel sensor A
03205..... ECAS Solenoid valve 3/3 lift/unload lifting/trailing axle
03205..... EHLA..... Valve output 5
03205..... FFR CAN data bus: Astronic message ETC2, byte 3
03205..... ZBRO EDC brake lamp
03206..... EBS Pressure control module, left rear axle,
long instability wheel sensor A
03206..... ECAS Solenoid valve 3/2 reservoir
03206..... EHLA..... Valve output 6
03206..... FFR CAN data bus: Astronic message ETC2, byte 4
03206..... ZBRO EDC overtravel relay
03207..... EBS Pressure control module, left rear axle,
pulse ring fault wheel sensor A
03207..... EBS_K1 Impulse wheel fault rear axle left
03207..... ECAS Solenoid valve 3/3 lifting bellows
03207..... EHLA..... Valve output 7
03207..... FFR CAN data bus: Astronic message ETC2, byte 5
03207..... ZBRO EDC malfunction
03208..... EBS Pressure control module, left rear axle,
fault on lifting axle wheel sensor A
03208..... ECAS Solenoid valve 2/2, 3rd AXLE RIGHT
03208..... EHLA..... Valve output 8
03208..... FFR CAN data bus: Astronic message ETC2, byte 6
03208..... ZBRO EDC malfunction
03209..... AST Emergency off button pressed or ECU de-energised
03209..... EBS Pressure control module, left rear axle
03209..... EBS_K1 Brake/impulse wheel/
sensor combination rear axle left
03209..... ECAS Solenoid valve 2/2, 3rd AXLE LEFT
03209..... FFR CAN data bus: Astronic message ETC2, byte 7
03209..... ZBRO EDC ignition on
03210..... AST CAN data bus tachograph from
central on-board computer ZBR2, TCO1

SPN..... Control unit/System..... Fault message

03210..... EBS..... Pressure control module, left rear axle

03210..... EMOS Timeout of TCO1 message

03210..... FFR..... CAN data bus: Central on-board computer message
TCO1, byte 0

03210..... OBDU..... Air filter vacuum

03211..... AST CAN data bus gearbox check from
vehicle management computer FFR, TC1_FT

03211..... CNG Knock sensor 2

03211..... EBS..... Pressure control module, left rear axle, interruption,
short-circuit wheel sensor B

03211..... EMOS Timeout of TC1_FT message

03211..... FFR..... CAN data bus: Central on-board computer message
TCO1, byte 1

03211..... KSM Oil pressure.

03211..... OBDU..... Engine oil pressure too low

03211..... TPM Medium leakage from left outer tyre, axle 1

03211..... ZBRO..... Engine oil pressure too low

03212..... AST CAN data bus gearbox check from
vehicle management computer FFR, TC1_FT
(requested gear)

03212..... EBS..... Pressure control module, left rear axle,
wheel sensor B: Delay too long

03212..... ECAS Solenoid valve transverse throttle

03212..... FFR..... CAN data bus: Central on-board computer message
TCO1, byte 2

03212..... OBDU..... Oil pressure too high

03212..... TPM Medium leakage from left inner tyre, axle 1

03213..... AST CAN data bus gearbox check from
vehicle management computer FFR, TC1_FT
(requested range)

03213..... EBS..... Pressure control module, left rear axle,
wheel sensor B: Moving off fault

03213..... FFR..... CAN data bus: Central on-board computer message
TCO1, byte 3

03213..... TPM Medium leakage from right inner tyre, axle 1

SPN..... Control unit/System..... Fault message

03214..... AST CAN data bus gearbox check from
vehicle management computer FFR, TC1_FT
(PTO request)

03214..... EBS Pressure control module, left rear axle,
wheel sensor B: Clearance too great

03214..... FFR CAN data bus: Central on-board computer message
TCO1, bytes 4 and 5

03214..... TPM Medium leakage from right outer tyre, axle 1

03214..... ZBRO FFR malfunction

03215..... AST CAN data bus information from
central on-board computer (aux_stat_zbr#1), timeout

03215..... EBS Pressure control module, left rear axle,
perpetual control wheel sensor B

03215..... FFR CAN data bus: Central on-board computer
message TCO1, bytes 6 and 7

03215..... ZBRO FFR malfunction

03216..... EBS Pressure control module, left rear axle,
long instability wheel sensor B

03216..... ECAS Solenoid valve 3/3, lift/unload 2nd lifting/trailing axle

03216..... FFR CAN data bus: Central on-board computer
message VEH_DIST, bytes 0 to 3

03216..... ZBRO Accelerator pedal not pressed (T-CAN)

03217..... EBS Pressure control module, left rear axle,
pulse ring fault wheel sensor B

03217..... ECAS Solenoid valve 3/3, lower/load 2nd lifting/trailing axle

03217..... FFR CAN data bus: Central on-board computer
message VEH_DIST, bytes 4 to 5

03217..... ZBRO Accelerator pedal pressed

03218..... EBS Pressure control module, left rear axle,
fault on lifting axle wheel sensor B

03218..... FFR CAN data bus: Central on-board computer
message TIME/DATE, byte 0

03218..... ZBRO Accelerator pedal kickdown (T-CAN)

03219..... EBS Pressure control module, left rear axle

03219..... FFR CAN data bus: Central on-board computer
message TIME/DATE, byte 1

03219..... ZBRO Accelerator pedal position (0...250)

SPN..... Control unit/System..... Fault message

03220..... CNG Knock control zero test

03220..... EBS Pressure control module, left rear axle,
electrical power supply fault, pad wear sensor

03220..... EBS_K1Electrical power supply pad wear sensor
(rear axle left or rear axle)

03220..... EHLA..... CAN message 'Door_Ctrl'

03220..... FFRCAN data bus: Central on-board computer
message TIME/DATE, byte 2

03220..... ZBRO Cooling water level too low

03221..... CNG Knock control offset

03221..... EBS Pressure control module, left rear axle,
pad wear sensor A outside permitted value range

03221..... EHLA..... CAN message 'Time_Date'

03221..... FFRCAN data bus: Central on-board computer
message TIME/DATE, byte 3

03221..... TPMMedium leakage from left outer tyre, axle 2

03221..... ZBRO Cooling water level probe supply

03222..... CNG Knock control test pulse

03222..... EBS Pressure control module, left rear axle,
pad wear sensor B outside permitted value range

03222..... EHLA..... CAN message 'High Resolution Vehicle Distance'

03222..... FFRCAN data bus: Central on-board computer
message TIME/DATE, byte 4

03222..... TPMMedium leakage from left inner tyre, axle 2

03222..... ZBRO Cooling water temperature too high

03223..... EBS Pressure control module, left rear axle,
pressure sensor outside permitted value range

03223..... EHLA..... CAN message 'ETC2'

03223..... FFRCAN data bus: Central on-board computer
message TIME/DATE, byte 6

03223..... TPMMedium leakage from right inner tyre, axle 2

03223..... ZBRO Cooling water temperature

03224..... EBS Pressure control module, left rear axle,
time for 'Current pressure' inquiry too long

03224..... EHLA..... CAN message 'EBC1'

03224..... FFR CAN data bus: Central on-board computer message
TIME/DATE, bytes 7 and 8

SPN..... Control unit/System..... Fault message

03224..... TPMMedium leakage from right outer tyre, axle 2
03224..... ZBROCooling water temperature too high
03225..... CNGRequirement adaptation at stop
03225..... EBS....Pressure control module, left rear axle, poor ventilation
03225..... FFR.... CAN data bus: Retarder message RE_FLUIDS, byte 2
03225..... ZBROMotronic (accelerator) malfunction
03226..... EBS..... Pressure control module, left rear axle,
excessive pressure during pulse test
03226..... FFR.... CAN data bus: Retarder message RE_FLUIDS, byte 2
03226..... ZBROMotronic (accelerator) malfunction
03227..... ASTData field for CAN communication
03227..... EBS..... Pressure control module, left rear axle,
residual pressure after braking
03227..... FFR.... CAN data bus: Retarder message RE_FLUIDS, byte 3
03227..... ZBROEngine oil pressure too low
03228..... EBS..... Pressure control module, left rear axle,
pressure sensor fault without braking
03228..... FFR.... CAN data bus: Retarder message RD_FLUIDS, byte 2
03228..... ZBRO Engine oil pressure
03229..... EBS..... Pressure control module, left rear axle
03229..... FFR.... CAN data bus: Retarder message RD_FLUIDS, byte 2
03230..... EBS..... Pressure control module, left rear axle,
wheel sensor IC defective
03230..... ECASSetpoint level control
03230..... EHLA. Signature ECU lids (LID 0x86-0x9F) - advance warning
03230..... FFR.... CAN data bus: Retarder message RD_FLUIDS, byte 3
03231..... CNG Charge air pressure governing system
03231..... EBS..... Pressure control module, left rear axle,
faulty backup valve checkback
03231..... ECAS Leakage
03231..... EHLA.....Signature ECU lids (LID 0x86-0x9F) - error
03231..... FFR..... CAN data bus: Astronic message TSC1_TE, byte 1
03231..... TPMMedium leakage from left outer tyre, axle 3
03231..... ZBRO Oil replenishment float switch
03232..... EBS..... Pressure control module, left rear axle,
faulty intake valve checkback

SPN..... Control unit/System..... Fault message

03232..... EHLA..... Signature variable priority lids
(LID 0x40-0x47) - advance warning

03232..... FFR..... CAN data bus: Astronic message
TSC1_TE, bytes 2 and 3

03232..... TPM..... Medium leakage from left inner tyre, axle 3

03232..... ZBRO..... Oil replenishment valve

03233..... EBS..... Pressure control module, left rear axle,
faulty intake and backup valve checkback

03233..... EHLA.... Signature variable priority lids (LID 0x40-0x47) - error

03233..... FFR..... CAN data bus: Astronic message TSC1_TE, byte 3

03233..... TPM..... Medium leakage from right inner tyre, axle 3

03233..... ZBRO..... Engine oil level (T-CAN)

03234..... EBS..... Pressure control module, left rear axle,
faulty outlet valve checkback

03234..... FFR..... CAN data bus: Astronic message TSC1_TE, byte 4

03234..... TPM..... Medium leakage from right outer tyre, axle 3

03234..... ZBRO..... Economy circ. headl. (oil pressure+v<3)

03235..... EBS..... Pressure control module, left rear axle,
faulty outlet and backup valve checkback

03235..... FFR..... CAN data bus: EBS message TSC1_AE, byte 0

03235..... ZBRO..... DeltecCNG malfunction

03236..... EBS..... Exhaust and intake valve checkback
(rear axle left or rear axle)

03236..... FFR... CAN data bus: EBS message TSC1_AE, bytes 1 and 2

03236..... ZBRO..... DeltecCNG malfunction

03237..... EBS..... Pressure control module, left rear axle,
faulty outlet and intake and backup valve checkback

03237..... FFR..... CAN data bus: EBS message TSC1_AE, byte 3

03237..... ZBRO..... EMS3.3 malfunction

03238..... EBS..... Pressure control module, left rear axle

03238..... EHLA..... Air pressure switch

03238..... FFR..... CAN data bus: EBS message TSC1_AE, byte 4

03238..... ZBRO..... EMS3.3 malfunction

03239..... EBS..... Pressure control module, left rear axle

03239..... EHLA..... Actuator test when vehicle moving cancelled

s03239... FFR..... CAN databus: Central on-board computer
message AUX_ZBR1, bytes 0 and 1

SPN..... Control unit/System..... Fault message

03239..... ZBRO..... Fire in engine compartment
03240..... EBS..... Pressure control module, left rear axle,
no CAN reception from module
03240..... EHLA..... Redundant electrical power supply
03240..... FFR..... CAN databus: Central on-board computer
message AUX_ZBR1, byte 2
03240..... ZBRO..... Fire in engine compartment
03241..... EBS..... Pressure control module, left rear axle,
software incompatibility between control unit
and pressure control module
03241..... EHLA..... Incorrect operation steering program change
03241..... FFR..... CAN databus: Central on-board computer
message AUX_ZBR1, byte 4
03241..... TPM..... Medium leakage from left outer tyre, axle 4
03241..... ZBRO..... Engine control unit activation (T-CAN)
03242..... EBS..... Pressure control module, left rear axle,
12/24 volt incompatibility between control unit and
pressure control module
03242..... EHLA..... CAN communication
03242..... FFR..... CAN databus: ECAS message ECAS1, bytes 5 to 7
03242..... TPM..... Medium leakage from left inner tyre, axle 4
03242..... ZBRO..... Engine oil pressure (T-CAN)
03243..... EBS..... Pressure control module, left rear axle,
high cycle protection intake valve active, pressure < 4 bar
03243..... EHLA..... First non-volatile memory is inconsistent
03243..... FFR..... CAN data bus: Message ERC1_RE, byte 1
03243..... TPM..... Medium leakage from right inner tyre, axle 4
03243..... ZBRO..... Oil replenishment oil level too low
03244..... EBS..... Pressure-control module (rear axle left or rear axle)
defective, arithmetic test unsuccessful
03244..... EHLA..... Lowside switch
03244..... FFR..... CAN data bus: ECAM message ECAM1, byte 4
03244..... TPM..... Medium leakage from right outer tyre, axle 4
03244..... ZBRO..... Oil replenishment oil level too low
03245..... EBS..... Pressure control module, left rear axle,
wheel compensation fault wheel sensor A
03245..... EHLA..... Speed limiting system

SD 812a en

Page 70 of 203

SPN..... Control unit/System..... Fault message

03245..... ZBRO.....ECE36 emergency shut-off
03246..... EBS..... Pressure control module, left rear axle,
wheel compensation fault wheel sensor B
03246..... EHLA..... Incorrect operation
03246..... ZBRO.....Cooling water level probe not connected
03247..... EBS..... Pressure control module, left rear axle,
electrical power supply fault, axle load sensor
03247..... EHLA.....Parameters for controls
03247..... FFR..... CAN data bus: Time overrun when receiving
ESP message VDC1.
03247..... ZBRO..... Engine oil pressure warning contact not conn.
03248..... EBS..... Pressure control module, left rear axle,
pressure differential on pressure control module pair,
rear axle
03248..... EHLA..... Control, sticking
03248..... ZBRO.....EDC malfunction (before 1st starting attempt)
03249..... EBS..... Redundant pressure rear axle
03249..... EHLA..... Second non-volatile memory, inconsistent
03249..... ZBRO.....EDC malfunction (engine running)
03250..... EBS..... Pressure control module, right rear axle, no fault
03250..... EHLA..... Geometry parameters
03250..... FFR..... Comfort Shift inputs (CS1 and CS2)
03250..... ZBRO.....EDC malfunction (starting not possible)
03251..... EBS..... Pressure control module, right rear axle,
interruption, short-circuit wheel sensor A
03251..... EHLA..... Axle movement parameters
03251..... FFR..... RSG/RSL switch
03251..... TPM..... Medium leakage from left outer tyre, axle 5
03251..... ZBRO..... Hydro fan oil level too low
03252..... EBS..... Pressure control module, right rear axle,
wheel sensor A: Delay too long
03252..... EHLA.....Steering reduction parameters
03252..... FFR..... Splitter switch
03252..... TPM..... Medium leakage from left inner tyre, axle 5
03252..... ZBRO.....FFR check
03253..... EBS..... Pressure control module, right rear axle,
wheel sensor A: Moving off fault

SPN..... Control unit/System..... Fault message

03253..... EHLA..... Steering suppression parameters
03253..... FFR..... Int. coupling
03253..... TPM..... Medium leakage from right inner tyre, axle 5
03253..... ZBRO..... FFR warning
03254..... EBS..... Pressure control module, right rear axle,
wheel sensor A: Clearance too great
03254..... EHLA..... Axle configuration parameters
03254..... FFR..... Anf_EH
03254..... TPM..... Medium leakage from right outer tyre, axle 5
03254..... ZBRO..... Cool.w.lev.probe too low or probe n.c.
03255..... EBS..... Pressure control module, right rear axle,
perpetual control wheel sensor A
03255..... EHLA..... Internal monitoring of software runtime
03255..... FFR..... Input ZDR1
03255..... ZBRO..... Back pressure CRT filter too high
03256..... EBS..... Pressure control module, right rear axle,
long instability wheel sensor A
03256..... FFR..... Input ZDR2
03257..... EBS..... Pressure control module, right rear axle,
pulse ring fault wheel sensor A
03257..... FFR..... Input ZDR3
03258..... EBS..... Pressure control module, right rear axle,
fault on lifting axle wheel sensor A
03258..... FFR..... Input request power take-off 1
03259..... EBS..... Pressure control module, right rear axle
03259..... EBS_K1..... Brake/impulse wheel/sensor combination
rear axle right
03259..... FFR..... Input request power take-off 2
03260..... EBS..... Pressure control module, right rear axle
03260..... ECAS..... Supply voltage / feedback, damper valve
03260..... FFR..... Input ECO / Power
03261..... EBS..... Pressure control module, right rear axle,
interruption, short-circuit wheel sensor B
03261..... ECAS..... Damper valve, front axle
03261..... EHLA..... Function computer, computer unit
03261..... FFR..... Input checkback power take-off 1

SPN..... Control unit/System..... Fault message

03262..... EBS..... Pressure control module, right rear axle,
wheel sensor B: Delay too long
03262..... ECAS..... Damper valve, 1st rear axle
03262..... EHLA..... Function computer, computer unit
03262..... FFR..... Input checkback power take-off 2
03263..... EBS..... Pressure control module, right rear axle,
wheel sensor B: Moving off fault
03263..... ECAS..... Damper valve, 2nd rear axle
03263..... EHLA..... Function computer, computer unit
03263..... FFR..... Input gearbox neutral checkback
03264..... EBS..... Pressure control module, right rear axle,
wheel sensor B: Clearance too great
03264..... EHLA..... Function computer, computer unit
03264..... FFR..... Input parking brake
03265..... EBS..... Pressure control module, right rear axle,
perpetual control wheel sensor B
03265..... EHLA..... Function computer, parameter area
03265..... FFR..... Input checkback single H (does not exist)
03266..... EBS..... Pressure control module, right rear axle,
long instability wheel sensor B
03266..... EHLA..... Function computer, internal program memory
03266..... FFR..... Input request engine start / tl. 50
03267..... EBS..... Pressure control module, right rear axle,
pulse ring fault wheel sensor B
03267..... EHLA..... Function computer, time measurement
03267..... FFR..... Input request engine stop
03268..... EBS..... Pressure control module, right rear axle,
fault on lifting axle wheel sensor B
03268..... EHLA..... Function computer, monitoring modules
03269..... EBS..... Pressure control module, right rear axle
03269..... EHLA..... Function computer, monitoring modules
03269..... FFR..... Plausibility message 'Start engine' – input
request engine start
03270..... EBS..... Pressure control module, right rear axle,
electrical power supply fault, pad wear sensor
03270..... EHLA..... Function computer, monitoring modules
03270..... FFR... CAN message 'Start engine' although engine is running

SPN..... Control unit/System..... Fault message

03271 EBS..... Pressure control module, right rear axle,
pad wear sensor A outside permitted value range

03271 EHLA..... Function computer, monitoring modules

03271 FFR..... CAN message 'Start engine' although $v > 0$

03272 EBS..... Pressure control module, right rear axle,
pad wear sensor B outside permitted value range

03272 EHLA..... Function computer, monitoring modules

03272 FFR..... CAN message 'Start engine' although input
gearbox neutral open

03273 EBS..... Pressure control module, right rear axle,
pressure sensor outside permitted value range

03273 EHLA..... Function computer, monitoring modules

03273 FFR..... CAN message 'Stop engine' although still $v > 0$

03274 EBS..... Pressure control module, right rear axle,
time for 'Current pressure' inquiry too long

03274 EHLA..... Function computer, monitoring modules

03274 FFR..... Gearbox input speed to gearbox output speed
with gearbox in neutral

03275 EBS..... Pressure control module, right rear axle, poor ventilation

03275 EHLA..... Function computer, monitoring modules

03276 EBS..... Pressure control module, right rear axle,
excessive pressure during pulse test

03276 EHLA..... Function computer, monitoring modules

03277 EBS..... Pressure control module, right rear axle,
residual pressure after braking

03277 EHLA..... Function computer, monitoring modules

03277 FFR..... No engine CAN

03278 EBS..... Pressure control module, right rear axle,
pressure sensor fault without braking

03278 EHLA..... Function computer, monitoring modules

03278 FFR..... Input speed

03279 EBS..... Pressure control module, right rear axle

03279 EHLA..... Function computer, safety switch

03279 FFR..... No speed signal
(torque and engine speed limiting initiated)

03280 EBS..... Pressure control module, right rear axle,
wheel sensor IC defective

SPN..... Control unit/System..... Fault message

03280 EHLA.....Function computer, monitoring modules

03280 FFR Vehicle management computer cannot be switched off

03281 EBS.....Pressure control module, right rear axle,
faulty backup valve checkback

03281 EHLA..... Function computer: Digital output 1,
switch-on test

03281 FFRInput request single H (group change switch)

03282 EBS.....Pressure control module, right rear axle,
faulty intake valve checkback

03282 EHLA.....Function computer, digital outputs 2 – 6,
switch-on test

03283 EBS.....Pressure control module, right rear axle,
faulty intake and backup valve checkback

03283 EHLA..... Function computer, digital outputs 2 – 6,
switch-on test

03284 EBS.....Pressure control module, right rear axle,
faulty outlet valve checkback

03284 EHLA.....Function computer, digital outputs 2 – 6,
switch-on test

03285 EBS.....Pressure control module, right rear axle,
faulty outlet and backup valve checkback

03285 EHLA.....Function computer, digital outputs 2 – 6,
switch-on test

03286 EBS.....Pressure control module, right rear axle,
faulty outlet and intake valve checkback

03286 EHLA.....Function computer, digital outputs 2 – 6,
switch-on test

03287 EBS.....Pressure control module, right rear axle,
faulty outlet and intake and backup valve checkback

03288 EBS.....Pressure control module, right rear axle

03289 EBS.....Pressure control module, right rear axle

03290 EBS.....Pressure control module, right rear axle,
no CAN reception from module

03290 FFR Control unit (register test)

03291 EBS.....Pressure control module, right rear axle,
software incompatibility between control unit and
pressure control module

SPN..... Control unit/System..... Fault message

03291	FFR	Control unit (arithmetic)
03292	EBS	Pressure control module, right rear axle, 12/24 volt incompatibility between control unit and pressure control module
03292	FFR	Control unit (RAM)
03293	EBS	Pressure control module, right rear axle, high cycle protection intake valve active, pressure < 4 bar
03293	FFR	Control unit (watchdog)
03294	EBS	Pressure control module, right rear axle, arithmetic test not successful
03294	FFR	Control unit (watchdog has tripped)
03295	EBS	Pressure control module, right rear axle, wheel compensation fault wheel sensor A
03295	FFR	Control unit (RAM page)
03296	EBS	Pressure control module, right rear axle, wheel compensation fault wheel sensor B
03296	FFR	Control unit (RAM/ROM segment)
03297	EBS	Pressure control module, right rear axle, electrical power supply fault, axle load sensor
03297	FFR	Control unit (page error ROM)
03298	EBS	Pressure control module, right rear axle, pressure differential on pressure control module pair, rear axle
03298	FFR	Control unit (checksum ROM)
03299	CNG	Pressure sensor surroundings
03299	EBS	Pressure control module, right rear axle
03300	EBS	Pressure control module E, no fault
03300	FFR	Control unit or cable line (engine brake output stage)
03300	OBDO	Alternator speed
03300	ZBR2	Alternator / starter
03300	ZBRO	Engine revs
03301	EBS	Pressure control module E, interruption, short-circuit wheel sensor A

SPN..... Control unit/System..... Fault message

03301 FFR Control unit or peripherals
(output stage, clutch servo)

03301 OBDU Engine oil temperature too high

03301 ZBR2 Alternator tl. L

03302 EBS Pressure control module E,
wheel sensor A: Delay too long

03302 FFR Control unit or cable line
(power take-off 1 output stage)

03302 ZBR2 Alternator B+ sense

03303 EBS Pressure control module E,
wheel sensor A: Moving off fault

03303 FFR Control unit or cable line
(power take-off 2 output stage)

03303 ZBR2 Engine running (= signal D+)

03303 ZBRO Engine running

03304 EBS Pressure control module E,
wheel sensor A: Clearance too great

03304 FFR Control unit or cable line
(thermostat heater output stage)

03304 OBDU EDC boiling protection

03305 EBS Pressure control module E,
perpetual control wheel sensor A

03305 FFR Control unit or cable line (high range output stage)

03306 EBS Pressure control module E,
long instability wheel sensor A

03306 FFR Control unit or cable line (low range output stage)

03306 OBDU Thermostat in cooling system defective or
too much heat being taken (heater)

03307 EBS Pressure control module E,
pulse ring fault wheel sensor A

03308 EBS Pressure control module E,
fault on lifting axle wheel sensor A

03308 FFR Control unit or cable line (earth group output stage)

03309 EBS Pressure control module E

03309 EBS_K1 Brake/impulse wheel/
sensor combination additional axle left

03309 FFR Control unit or cable line (earth splitter output stage)

SPN..... Control unit/System..... Fault message

03310	EBS	Pressure control module E
03310	FFR	Ride height
03311	EBS	Pressure control module E, interruption, short-circuit wheel sensor B
03311	FFR	Control unit (EEPROM checksum)
03311	KSM	Cooling water temperature.
03311	OBDO	Cooling water temperature too high
03311	TPM	Severe leakage from left outer tyre, axle 1
03312	EBS	Pressure control module E, wheel sensor B: Delay too long
03312	TPM	Severe leakage from left inner tyre, axle 1
03313	EBS	Pressure control module E, wheel sensor B: Moving off fault
03313	TPM	Severe leakage from right inner tyre, axle 1
03313	ZBRO	Econ. circ. heat./airc. (altern. running)
03314	EBS	Pressure control module E, wheel sensor B: Clearance too great
03314	TPM	Severe leakage from right outer tyre, axle 1
03314	ZBRO	Economy circuit workshop jumper
03315	EBS	Pressure control module E, perpetual control wheel sensor B
03315	ZBRO	Charge check alternator LIMA1
03316	EBS	Pressure control module E, long instability wheel sensor B
03316	ZBRO	Starter start interlock repeat rel.
03317	EBS	Pressure control module E, pulse ring fault wheel sensor B
03317	ZBRO	Roller-type sw. 1 start interr. (open)
03318	EBS	Pressure control module E, fault on lifting axle wheel sensor B
03318	ZBRO	Roller-type sw. 2 start interr. (closed)
03319	CNG	Throttle butterfly actuator minimum stop
03319	EBS	Pressure control module E
03319	ZBRO	Alternator LIMA1 not charging
03320	EBS	Pressure control module E, electrical power supply fault, pad wear sensor
03320	ZBRO	Charge check alternator LIMA2

SPN..... Control unit/System..... Fault message

03321	EBS	Pressure control module E, pad wear sensor A outside permitted value range
03321	TPM	Severe leakage from left outer tyre, axle 2
03321	ZBRO	Alternator LIMA2 not charging
03322	CNG	Crankshaft to camshaft signal
03322	EBS	Pressure control module E, pad wear sensor B outside permitted value range
03322	TPM	Severe leakage from left inner tyre, axle 2
03322	ZBRO	Engine start in rear
03323	EBS	Pressure control module E, pressure sensor outside permitted value range
03323	TPM	Severe leakage from right inner tyre, axle 2
03323	ZBRO	Engine stop in rear
03324	EBS	Pressure control module E, time for 'Current pressure' inquiry too long
03324	TPM	Severe leakage from right outer tyre, axle 2
03324	ZBRO	Roller-type sw. start interr. fault
03325	CNG	Crankshaft to camshaft signal (bank 2)
03325	EBS	Pressure control module E, poor ventilation
03325	ZBRO	Fuel tank flap (start interlock/eng. stop)
03326	EBS	Pressure control module E, excessive pressure during pulse test
03326	ZBRO	Engine compartment flap open
03327	EBS	Pressure control module E, residual pressure after braking
03327	ZBRO	Gearb. n. neutral (starting impossible)
03328	EBS	Pressure control module E, pressure sensor fault without braking
03328	OUZBRO	Start interruption via fuel tank flap
03328	ZBRO	Start interruption via fuel tank flap
03329	CNG	Suction pipe pressure sensor
03329	EBS	Pressure control module E
03329	ZBRO	Engine start front
03330	EBS	Pressure control module E, wheel sensor IC defective
03330	ZBRO	Engine stop front
03331	EBS	Pressure control module E, faulty backup valve checkback

SPN..... Control unit/System..... Fault message

- 03331 TPM Severe leakage from left outer tyre, axle 3
- 03331 ZBRO Roller-type sw. 3 start interr. (open)
- 03332 EBS Pressure control module E, faulty intake valve checkback
- 03332 TPM Severe leakage from left inner tyre, axle 3
- 03332 ZBRO Roller-type sw. 4 start interr. (closed)
- 03333 EBS Pressure control module E,
faulty intake and backup valve checkback
- 03333 TPM Severe leakage from right inner tyre, axle 3
- 03333 ZBRO Central front flap open
- 03334 EBS Pressure control module E,
faulty outlet valve checkback
- 03334 TPM Severe leakage from right outer tyre, axle 3
- 03334 ZBRO Roller-type sw. start interr. fault fr.
- 03335 EBS Pressure control module E,
faulty outlet and backup valve checkback
- 03335 ZBR2.... Voltage specification not possible (alternator / starter)
- 03336 EBS Pressure control module E,
faulty outlet and intake valve checkback
- 03336 ZBRO Supply compartment open
- 03337 EBS Pressure control module E,
faulty outlet and intake and backup valve checkback
- 03337 ZBRO Roller-type sw. start interr. fault fr.
- 03338 EBS Pressure control module E
- 03338 ZBRO Start interrupted
- 03339 EBS Pressure control module E
- 03339 ZBRO Flap 1 left open
- 03340 EBS Pressure control module E,
no CAN reception from module
- 03340 ZBRO Flap 2 left open
- 03341 EBS Pressure control module E,
software incompatibility between control unit and
pressure control module
- 03341 EBS_K1 Software statuses of control unit and
pressure-control module
(additional axle left or additional axle) do not match
- 03341 TPM Severe leakage from left outer tyre, axle 4
- 03341 ZBRO Flap 2 right open

SPN..... Control unit/System..... Fault message

03342..... EBS..... Pressure control module E,
12/24 volt incompatibility between control unit and
pressure control module

03342..... TPM Severe leakage from left inner tyre, axle 4

03342..... ZBRO..... Flap 3 left open

03343..... EBS..... Pressure control module E,
high cycle protection intake valve active,
pressure < 4 bar

03343..... TPM Severe leakage from right inner tyre, axle 4

03343..... ZBRO..... Flap 4 left open

03344..... EBS..... Pressure control module E,
arithmetic test not successful

03344..... TPM Severe leakage from right outer tyre, axle 4

03344..... ZBRO..... Battery flap open

03345..... EBS..... Pressure control module E,
wheel compensation fault wheel sensor A

03345..... ZBRO..... Flap in rear flap open

03346..... EBS..... Pressure control module E,
wheel compensation fault wheel sensor B

03346..... ZBRO..... Engine stop in rear

03347..... EBS..... Pressure control module E,
electrical power supply fault, axle load sensor

03348..... EBS..... Pressure control module E,
pressure differential on pressure control
module pair, rear axle

03349..... EBS..... Pressure control module E

03350..... EBS..... Pressure control module F, no fault

03351..... EBS..... Pressure control module F,
interruption, short-circuit wheel sensor A

03351..... TPM Severe leakage from left outer tyre, axle 5

03352..... EBS..... Pressure control module F,
wheel sensor A: Delay too long

03352..... TPM Severe leakage from left inner tyre, axle 5

03353..... CNG Pressure sensor charge air pressure

03353..... EBS..... Pressure control module F,
wheel sensor A: Moving off fault

03353..... TPM Severe leakage from right inner tyre, axle 5

SPN..... Control unit/System..... Fault message

- 03354..... EBS..... Pressure control module F,
wheel sensor A: Clearance too great
- 03354..... TPM Severe leakage from right outer tyre, axle 5
- 03355..... EBS..... Pressure control module F,
perpetual control wheel sensor A
- 03355..... TPM LID checksum error
- 03356..... CNG Lambda control adaptation multiplicative
lower range (bank 1)
- 03356..... EBS..... Pressure control module F,
long instability wheel sensor A
- 03357..... CNG Lambda control adaptation multiplicative
upper range (bank 1)
- 03357..... EBS..... Pressure control module F,
pulse ring fault wheel sensor A
- 03358..... EBS..... Pressure control module F,
fault on lifting axle wheel sensor A
- 03359..... EBS..... Pressure control module F
- 03359..... EBS_K1 Brake/impulse wheel/
sensor combination additional axle right
- 03360..... CNG Lambda control adaptation leakage air (bank 1)
- 03360..... EBS..... Pressure control module F
- 03361..... EBS..... Pressure control module F,
interruption, short-circuit wheel sensor B
- 03361..... EHLA..... Function computer, monitoring modules
- 03362..... CNG Lambda control adaptation fuel (bank 1)
- 03362..... EBS..... Pressure control module F,
wheel sensor B: Delay too long
- 03362..... EHLA..... Function computer, monitoring modules
- 03363..... EBS..... Pressure control module F,
wheel sensor B: Moving off fault
- 03363..... EHLA..... Function computer, monitoring modules
- 03364..... EBS..... Pressure control module F,
wheel sensor B: Clearance too great
- 03364..... EHLA..... Function computer, monitoring modules
- 03365..... EBS..... Pressure control module F,
perpetual control wheel sensor B
- 03365..... EHLA..... Function computer, monitoring modules

SPN..... Control unit/System..... Fault message

03366..... EBS..... Pressure control module F,
long instability wheel sensor B

03367..... EBS..... Pressure control module F,
pulse ring fault wheel sensor B

03368..... EBS..... Pressure control module F,
fault on lifting axle wheel sensor B

03368..... EHLA..... Function computer, overtemperature

03369..... EBS..... Pressure control module F

03369..... EHLA..... Function computer, monitoring modules

03370..... EBS..... Pressure control module F,
electrical power supply fault, pad wear sensor

03370..... EHLA..... Function computer, monitoring modules

03371..... EBS..... Pressure control module F,
pad wear sensor A outside permitted value range

03371..... EHLA..... Function computer, monitoring modules

03372..... EBS..... Pressure control module F,
pad wear sensor B outside permitted value range

03372..... EHLA..... Function computer, monitoring modules

03373..... EBS..... Pressure control module F,
pressure sensor outside permitted value range

03373..... EHLA..... Function computer, monitoring modules

03374..... EBS..... Pressure control module F,
time for 'Current pressure' inquiry too long

03374..... EHLA..... Function computer, reference voltage outside tolerance

03375..... EBS..... Pressure control module F, poor ventilation

03376..... EBS..... Pressure control module F,
excessive pressure during pulse test

03376..... EHLA..... Function computer, monitoring modules

03377..... EBS..... Pressure control module F,
residual pressure after braking

03378..... EBS..... Pressure control module F,
pressure sensor fault without braking

03379..... EBS..... Pressure control module F

03380..... EBS..... Pressure control module F,
wheel sensor IC defective

03381..... EBS..... Pressure control module F,
faulty backup valve checkback

SPN..... Control unit/System..... Fault message

03381	EHLA	Function computer, digital output 1
03382	CNG	Circuit trailing throttle circulating air valve
03382	EBS	Pressure control module F, faulty intake valve checkback
03382	EHLA	Function computer, digital outputs 2 – 6, operation
03383	EBS	Pressure control module F, faulty intake and backup valve checkback
03383	EHLA	Function computer, digital outputs 2 – 6, operation
03384	EBS	Pressure control module F, faulty outlet valve checkback
03384	EHLA	Function computer, digital outputs 2 – 6, operation
03385	EBS	Pressure control module F, faulty outlet and backup valve checkback
03385	EHLA	Function computer, digital outputs 2 – 6, operation
03386	EBS	Pressure control module F, faulty outlet and intake valve checkback
03386	EHLA	Function computer, digital outputs 2 – 6, operation
03387	EBS	Pressure control module F, faulty outlet and intake and backup valve checkback
03388	EBS	Pressure control module F
03389	EBS	Pressure control module F
03390	EBS	Pressure control module F, no CAN reception from module
03391	EBS	Pressure control module F, software incompatibility between control unit and pressure control module
03392	EBS	Pressure control module F, 12/24 volt incompatibility between control unit and pressure control module
03393	EBS	Pressure control module F, high cycle protection intake valve active, pressure < 4 bar
03394	EBS	Pressure control module F, arithmetic test not successful
03395	EBS	Pressure control module F, wheel compensation fault wheel sensor A

SPN..... Control unit/System..... Fault message

- 03396 EBS Pressure control module F,
wheel compensation fault wheel sensor B
- 03397 EBS Pressure control module F,
electrical power supply fault, axle load sensor
- 03398 EBS Pressure control module F,
pressure differential on
pressure control module pair, rear axle
- 03399 EBS Pressure control module F
- 03400 EBS Trailer control module, no fault
- 03400 ZBR2 Flame start solenoid valve
- 03401 EBS Trailer control module control electronics,
unknown μ C interrupt, μ C self-test, RAM or ROM test
- 03401 OBDU Engine oil level too high/low (static)
- 03401 ZBR2 Flame start relay
- 03402 CNG Throttle butterfly position deviation
- 03402 EBS Trailer control module
- 03402 OBDU Engine oil level too high (dynamic)
- 03402 ZBR2 Flame glow plug current
- 03403 CNG Throttle butterfly output stage switched off
- 03403 EBS Trailer control module control electronics,
EEPROM, too many write accesses
- 03403 OBDU Engine oil level too low (dynamic)
- 03403 ZBR2 Flame glow plug current
- 03404 CNG Throttle butterfly controller in limit
- 03404 EBS Trailer control module control electronics,
EEPROM, checksum fault or EOL data invalid
- 03404 OBDU Cooling water level too low
- 03405 CNG Monitoring computer; ROM
- 03405 EBS Trailer control module control electronics,
EEPROM, too many data repairs required
- 03406 CNG Monitoring computer; RAM
- 03406 EBS Trailer control module control electronics,
EEPROM, monitoring time exceeded
when writing data
- 03407 CNG Monitoring computer; reset
- 03407 EBS Trailer control module
- 03407 OBDU Oil level in power steering 1 too low

SPN..... Control unit/System..... Fault message

03408..... CNG Monitoring function; torque comparison

03408..... EBS Trailer control module control electronics,
EEPROM, fault in dynamic parameter setting

03408..... OBDU Oil level in power steering 2 too low

03409..... CNG Monitoring function; safety fuel shut-off

03409..... EBS Trailer control module control electronics, EEPROM,
dynamic parameters outside permitted value range

03410..... CNG Throttle butterfly error when
checking limp-home air position

03410..... EBS Trailer control module

03410..... OBDU Clutch oil level too low

03411..... CNG Throttle butterfly error in booster balancing

03411..... EBS Trailer control module

03411..... FFR Gearbox output speed out of permitted range

03412..... CNG Throttle butterfly error in spring check 'Closing'

03412..... EBS Trailer control module

03412..... FFR Range-change neutral switch indicates
'Neutral' - Power take-off neutral
switch indicates 'Not Neutral'

03413..... CNG Throttle butterfly learning error
when ignition on/off

03413..... EBS Trailer control module

03413..... FFR Range-change neutral switch indicates
'Not Neutral' - Power take-off
neutral switch indicates 'Neutral'

03414..... EBS Trailer control module

03414..... FFR Output stage lamp FGB (driving speed limiter)

03415..... EBS Trailer control module

03415..... FFR CAN data bus, oil sensor message:
Temperature rise not plausible although
engine is warm (> 60 °C)

03416..... EBS Trailer control module, fault in coupling force control

03416..... FFR CAN data bus, oil sensor message:
Oil level drop not plausible although engine is running

03417..... EBS Trailer control module

SPN..... Control unit/System..... Fault message

03417 FFR Range-change neutral switch indicates
'Not Neutral' - Power take-off neutral
switch indicates 'Neutral'

03418 EBS Trailer control module

03419 EBS Trailer control module, fault in earth estimation

03420 EBS Trailer control module

03421 EBS Trailer control module

03421 EBS_K1 Pressure sensor supply trailer control valve

03421 EHLA Function computer, digital input 1

03422 EBS Trailer control module, pressure sensor outside
permitted value range

03422 EBS_K1 Pressure sensor supply trailer control
valve outside the permitted range

03422 EHLA Function computer, digital input 2

03423 EBS Trailer control module, implausible pressure
sensor value when braking was not taking place

03423 EHLA Function computer, digital input 3

03424 EBS Trailer control module

03424 EHLA Function computer, digital input 4

03425 EBS Trailer control module, pressure dissipation
too slow and fault on parking brake switch

03426 EBS Trailer control module, residual pressure after
pressure dissipation greater than threshold
value on parking brake switch

03427 EBS Trailer control module, residual pressure after braking

03428 EBS Trailer control module

03429 EBS Trailer control module

03430 CNG Throttle butterfly potentiometer 1

03430 EBS Trailer control valve; solenoid valve

03430 FFR CAN databus: Timeout when receiving KSM
message KSM1

03431 CNG Throttle butterfly potentiometer 2

03431 EBS Trailer control module, faulty backup valve checkback

03431 FFR CAN databus: KSM message KSM1, bytes 2 and 3

03432 EBS Trailer control module, faulty intake valve checkback

03432 FFR CAN databus: KSM message KSM1, byte 4

03433 EBS Trailer control valve; solenoid valve feed line

SPN..... Control unit/System..... Fault message

- 03433..... FFRCAN databus: KSM message KSM1, byte 5
- 03434..... EBS..... Trailer control module, faulty outlet valve checkback
- 03434..... FFRCAN databus: KSM message KSM1, byte 8
- 03435..... EBS_K1Trailer control valve; solenoid valve return line
- 03435..... FFR.. Engine start requested although vehicle speed > 0 km/h
- 03436..... EBS..... Trailer control module, fault from outlet and
intake valve checkback
- 03436..... FFR Engine start requested although
gearbox not in neutral position
- 03437..... EBS..... Trailer control module
- 03437..... FFR.. Engine start requested although vehicle speed > 0 km/h
- 03438..... EBS..... Trailer control module
- 03439..... EBS..... Trailer control module
- 03440..... EBS.....Trailer control module, no CAN reception from
trailer control module
- 03441..... EBS..... Trailer control module, software incompatibility
between control unit and trailer control module
- 03442..... EBS..... Trailer control module, 12/24 volt incompatibility
between control unit and trailer control module
- 03443..... EBS.....Trailer control module, high cycle protection intake
valve active, pressure < 4 bar
- 03444..... EBS..... Trailer control module, arithmetic test not successful
- 03445..... EBS..... Trailer control module, impermissible
pressure on coupling head
- 03446..... EBS..... Trailer control module
- 03447..... EBS..... Trailer control module
- 03448..... EBS..... Trailer control module, pressure differential between
pressure control modules and trailer control module
- 03449..... EBS..... Trailer control module
- 03449..... FFR Exhaust backpressure is measured although the
exhaust valve brake control valve is not activated
- 03450..... FFR Exhaust backpressure
(plausibility pressure - valve control)
- 03451..... EBS..... ESP, internal control unit error
- 03453..... EBS..... ESP, checkback, voltage implausible
- 03455..... EBS..... ESP configuration not valid
- 03456..... EBS..... ESP, EEPROM, checksum invalid

SPN..... Control unit/System..... Fault message

03457 EBS ESP, EEPROM, parameter defective

03457 FFR CAN data bus: Time overrun when receiving
ACC message TSC1-ACC.

03457 HDS Urea tank empty

03458 EBS ESP, EEPROM, parameter out-of-range

03458 FFR CAN data bus: ACC message TSC1-ACC,
bytes 1 and 2

03459 EBS ESP, EEPROM, not programmable

03459 FFR CAN data bus: ACC message TSC1-ACC,
bytes 4 and 5

03460 FFR CAN data bus: Time overrun when receiving
ACC message ACC1.

03461 EBS ESP EOL data in the EBS ECU
not compatible with ESP software version

03461 EHLA Function computer, analog inputs 1 – 4, operation

03461 FFR CAN data bus: ACC message ACC, byte 4

03462 EHLA Function computer, analog inputs 1 – 4, operation

03462 FFR CAN data bus: Time overrun of
gearbox message TSC1-TRX

03463 EHLA Function computer, analog inputs 1 – 4, operation

03463 FFR DNR switch: No neutral position found

03464 EHLA Function computer, analog inputs 1 – 4, operation

03467 EBS ... ESP, lateral acceleration sensor out of permitted range

03467 FFR CAN databus: Time overrun message EEC1-CM570

03468 FFR CAN databus: Time overrun message EEC2-CM570

03469 EBS ESP, lateral acceleration sensor, long-time alignment

03469 FFR CAN databus: Time overrun message EEC3-CM570

03470 EBS ESP, lateral acceleration sensor, standstill alignment

03470 FFR CAN databus: Time overrun message
ERC1_RE-CM570

03471 EBS ESP, lateral acceleration sensor,
plausibility monitoring valid for model

03471 FFR CAN databus: Time overrun message ENG_TEMP-M570

03472 EBS ESP, lateral acceleration sensor,
plausibility monitoring not valid for model

03472 FFR CAN databus: Time overrun message
FUEL_ECO-CM570

SPN..... Control unit/System..... Fault message

03473..... EBS..... ESP, steering angle sensor not calibrated
03473..... FFR..... CAN databus: Time overrun message
INL_EXH_COND_CM570
03474..... EBS..... ESP, steering angle sensor, CAN timeout
03474..... FFR..... CAN databus: Time overrun message
ENG_FL_LV_PR_CM570
03475..... EBS..... ESP, steering angle sensor out of permitted range
03475..... FFR..... CAN databus: Message ECAM1, byte 1
03476..... EBS..... ESP, steering angle sensor,
defective CAN message content
03476..... FFR..... CAN databus: Message ECAM1, byte 2
03477..... EBS..... ESP, steering angle sensor, gradient error
03477..... FFR..... CAN databus: Message ECAM1, byte 3
03478..... EBS..... ESP, steering angle sensor, long-time alignment
03478..... FFR..... CAN databus: Time overrun message KSM2
03479..... EBS..... ESP, steering angle sensor, constant signal
03479..... FFR..... CAN databus: Time overrun message ASC1_A
03480..... EBS..... ESP, steering angle sensor incorrectly mounted,
incorrect steering angle sign
03480..... FFR..... CAN databus: Time overrun message ASC1_B
03481..... EBS..... ESP, steering angle sensor, plausibility monitoring
between steering angle and rotational speed
03483..... EBS..... ESP, rotational speed sensor, CAN timeout
03484..... EBS..... ESP, rotational speed sensor signal
out of permitted range
03485..... EBS..... ESP, rotational speed sensor,
defective CAN message content
03486..... EBS..... ESP, rotational speed sensor, static BITE error
03487..... EBS..... ESP, rotational speed sensor, dynamic BITE error
03488..... EBS..... ESP, steering angle sensor, gradient error
03490..... EBS..... ESP, rotational speed sensor, fast alignment
03491..... EBS..... ESP, rotational speed sensor, standstill alignment
03492..... EBS..... ESP, rotational speed sensor, normal alignment
03493..... EBS..... ESP, rotational speed sensor, sensitivity error
03494..... EBS..... ESP, rotational speed sensor,
plausibility monitoring valid for model

SPN..... Control unit/System..... Fault message

03495..... EBS..... ESP, rotational speed sensor,
plausibility monitoring not valid for model

03496..... EBS..... ESP, rotational speed sensor
incorrectly mounted, incorrect steering angle sign

03497..... EBS..... ESP, rotational speed sensor,
plausibility monitoring between rotational
speed and steering angle

03500..... EBS..... ESP, no CAN communication with ESP

03500..... FFR..... CAN databus: Time overrun message
RET_CONF_RX_M

03500..... KSM..... First faulty EOL LID

03500..... ZBR2..... Brake (ABS/ASR/ EBS)

03501..... EBS..... ESP, software incompatible

03501..... FFR..... CAN databus: Time overrun message ERC1_RX_M

03501..... OBDU..... Alternator charge check failure

03501..... ZBR2..... Electrical power supply to trailer ABS

03502..... EBS..... ESP, 12/24V incompatible with EBS

03502..... FFR..... CAN databus: Time overrun message TANK_INFO

03502..... OBDU..... Charging voltage too high

03502..... ZBR2..... Brake lamp, tractive unit

03502..... ZBRO..... Brake lamp

03503..... FFR..... CAN databus: Time overrun message ENG_TEMP_M

03503..... OBDU..... Vehicle system voltage often too low

03503..... ZBR2..... Brake lamp in trailer

03503..... ZBRO..... Brake lamp trailer

03504..... EBS..... ESP, ALU test failed

03504..... FFR..... CAN databus: Time overrun message
ENG_TEMP_M_TIMEOUT_SPN

03504..... OBDU..... Battery undervoltage after vehicle parked up

03505..... EBS..... ESP, output stage defective

03505..... FFR..... CAN databus: Time overrun message EFLP_M

03505..... OBDU..... Charge voltage too low for long period
when engine running

03506..... EBS..... ESP, intervention not plausible

03506..... FFR..... CAN databus: Time overrun message FUEL_ECO_M

03506..... OBDU..... Vehicle system voltage too low for long
period when engine running

SPN..... Control unit/System..... Fault message

03506	ZBRO	Battery undervoltage
03507	ZBRO	Starting interlock active
03508	ZBRO	Starting interlock active
03509	ZBRO	Starting interlock request
03510	OBDU	Retarder actuated
03510	ZBRO	ASR button/switch
03511	OBDU	Engine brake operated
03511	ZBRO	ASR button/switch
03512	EBS	OBD, request, red warning lamp for diagnosis
03512	OBDU	Brake pedal pressed
03512	ZBRO	ASR control (INA)
03513	EBS	OBD, request, yellow warning lamp for diagnosis
03513	ZBRO	ASR check lamp
03514	ZBRO	ASR control (brake via T-CAN)
03515	EBS	OBD, brake wear sensor signal
03515	ZBRO	ASR control (engine via T-CAN)
03516	EBS	OBD, trailer EBS has no errors
03516	EBS_5	Request red warning light, ISO 11992 trailer interface
03516	EBS_K1	Request red warning light, ISO 11992 trailer interface
03516	ZBRO	ASR check not connected
03517	EBS	OBD, voltage too high or too low
03517	ZBRO	ASR interface fault
03518	EBS	OBD, trailer interface in single line mode
03518	ZBRO	Brake pad wear indicator
03519	EBS	OBD, wheel speed sensor, error during the last switch-on cycle
03519	ZBRO	Brake pressure brake circuit 1
03520	EBS	OBD, limit gap speed, warning level, repeated every second
03520	ZBRO	Brake pressure brake circuit 2
03521	EBS	OBD, frequent-stop brake active
03521	ZBRO	Brake pressure rear axle left
03522	EBS	OBD, chassis dynamometer mode active
03522	ZBRO	Brake pressure rear axle right
03523	ZBRO	Brake pressure centre axle left

SPN..... Control unit/System..... Fault message

03524..... ZBRO Brake pressure centre axle right
03525..... EBS OBD, external wheel alignment
(speedo signal/speed sensor)
03525..... ZBRO Brake pressure front axle left
03526..... EBS OBD, alignment, lateral acceleration
sensor not completed
03526..... ZBRO Brake pressure front axle right
03527..... EBS OBD, steering angle sensor,
fast alignment not completed
03527..... ZBRO Brake light
03528..... EBS OBD, ESP control unit overvoltage or undervoltage
03528..... ZBRO Brake lamp centre
03529..... EBS OBD, ESP is passive
03529..... EBS_K1 Fault in trailer control valve pressure control
during most recent ignition on cycle
03529..... ZBRO Brake lamp left
03530..... EBS Fault in pressure control during most
recent ignition on cycle
03530..... ZBRO Brake lamp right
03531..... EBS Fault in redundant circuit during most
recent ignition on cycle
03531..... ZBRO Brake lamp trailer left
03532..... EBS Incorrect tyre diameter during most
recent ignition on cycle, short-term tyre monitoring
03532..... ZBRO Brake lamp trailer right
03533..... ZBRO Brake pedal position (0...250)
03534..... ZBRO EBS brake pad wear indicator
03535..... ZBRO EBS brake pad wear indicator
03536..... ZBRO EBS check yellow
03537..... ZBRO EBS check yellow
03538..... ZBRO EBS check yellow not connected
03539..... ZBRO EBS air gap too large
03540..... ZBRO EBS check red
03541..... ZBRO EBS check red not connected
03542..... ZBRO EBS malfunction prio. 1
03543..... ZBRO EBS reservoir pressure too low
03544..... ZBRO Spring-loaded accumulator reservoir

SPN..... Control unit/System..... Fault message

03545	ZBRO	Spring-loaded accumulator reservoir
03546	ZBRO	Parking brake 1 5.8 bar (open)
03547	ZBRO	Parking brake 2 0.8 bar (close)
03548	ZBRO	Bus-stop brake
03549	ZBRO	Bus-stop brake
03550	ZBRO	Buzzer engage parking brake/door malfunction
03551	ZBRO	ABS active (via T-CAN)
03552	ZBRO	Malfunction ABS/ASR
03553	ZBRO	Check malfunction ABS/ASR
03554	ZBRO	EBS/ABS activation (T-CAN)
03555	ZBRO	UDS accident data box brake lamp
03556	ZBRO	Parking brake fault
03557	ZBRO	EBS check yellow (via CAN)
03558	ZBRO	EBS check red (via CAN)
03559	ZBRO	ABS fully operational
03560	ZBRO	Brake pad thickness, 1st axle right
03561	ZBRO	Brake pad thickness, 1st axle left
03562	ZBRO	Brake pad thickness, 2nd axle right
03563	ZBRO	Brake pad thickness, 2nd axle left
03564	ZBRO	Brake pad thickness, 3rd axle right
03565	ZBRO	Brake pad thickness, 3rd axle left
03566	ZBRO	Parking brake 1 forebody
03567	ZBRO	Parking brake 1 for FFR
03568	OBDU	Retarder actuated
03568	ZBR2	Retarder
03569	OBDU	Engine brake operated
03569	ZBR2	Engine brake
03570	OBDU	Brake pedal pressed
03570	ZBR2	Service brake
03571	ZBRO	Bus stop brake switched off
03572	ZBR2	Bus-stop brake
03581	CNG	Diagnosis lambda probe before catalytic converter;
03582	CNG	Heating diagnosis lambda probe before catalytic converter
03583	CNG	Pressure sensor gas
03584	CNG	Coding; quality gas

SPN..... Control unit/System..... Fault message

03584	TRON	Control unit error
03585	CNG	Temperature gas
03585	TRON	No ignition – safety time exceeded
03586	TRON	Flame failure from operation
03587	TRON	Voltage
03588	TRON	Flame present during switch-on, cold blowing timeout
03589	TRON	Flame sensor
03590	TRON	Actual value temperature control sensor
03591	TRON	Metering pump
03592	TRON	Burner motor
03593	CNG	Solenoid stop valve (gas LD) leaking
03593	TRON	Glow plug
03594	CNG	Supply injection valves bank 1 output stage
03594	TRON	Overheating
03595	CNG	Supply injection valves bank 2 output stage
03596	CNG	Stop valve gas 1 output stage (low pressure)
03596	TRON	Setpoint
03597	CNG	Stop valve gas 2 output stage (high pressure)
03597	TRON	Overheating sensor
03598	CNG	Balancing in trailing throttle mode (measuring probe)
03598	TRON	Warning short-circuit output fresh air signal
03599	CNG	Balancing in trailing throttle mode (diagnostic probe)
03599	TRON	Warning short-circuit output theft alarm
03600	EBS	System bus, general
03600	TRON	No ignition - Too many unsuccessful start attempts (operation interlock)
03600	ZBR2	Fill level, clutch fluid
03601	CNG	Output stage starter control
03601	EBS	System bus, monitoring of the axle modulator drive axle messages by central brake unit; CAN brake
03601	OBDU	Front axle above technically permitted axle load
03601	TRON	Overheating - Hardware threshold exceeded in control unit (operation interlock)

SPN..... Control unit/System..... Fault message

03602..... EBS..... System bus, monitoring of the axle modulator
additional axle messages by central brake unit;
CAN brake

03602..... OBDU..... Rear axle above technically permitted axle load

03602..... TRON..... Overheating - Too many overheatings or
hardware threshold exceeded in control unit
(operation interlock)

03602..... ZBR2..... Reversing light relay

03603..... EBS..... System bus, monitoring of the vehicle dynamics
control messages by central brake unit

03603..... TRON..... Overheating sensor - Permitted difference from
flame sensor exceeded
(redundant overheating monitoring)

03603..... ZBR2..... Heating, Kongsberg circuit

03604..... EBS..... System bus, monitoring of the steering angle
sensor messages by central brake unit

03604..... ZBRO..... Clutch brake shut-off

03605..... ZBRO..... Clutch brake shut-off

03606..... ZBRO..... Clutch brake shut-off

03607..... ZBRO..... Clutch brake shut-off check

03608..... ZBRO..... Clutch brake direct

03609..... ZBRO..... Clutch brake direct stage 1

03610..... EBS..... System bus, monitoring of the central brake unit
messages by axle modulator drive axle; CAN brake

03610..... ZBRO..... Clutch brake direct stage 2

03611..... ZBRO..... Clutch brake direct stage 3

03612..... EBS.. System bus, monitoring of the axle modulator additional
axle messages by axle modulator drive axle

03612..... OUZBRO..... Gearbox neutral

03612..... ZBRO..... Gearbox neutral

03613..... EBS_K1 System bus, monitoring of the electronic stability
program messages by axle modulator drive axle

03613..... ZBRO..... Current gear (T-CAN)

03614..... ZBRO..... Gear engaged (T-CAN)

03615..... ZBRO..... Selected gear

03616..... ZBRO..... Gear oil too hot

03617..... ZBRO..... Gear oil too hot

SD 812a en

Page 96 of 203

SPN..... Control unit/System..... Fault message

03618..... ZBRO Reversing light
03619..... ZBRO Reverse light left
03620..... EBS..... System bus, monitoring of the central brake
unit messages by axle modulator additional axle
03620..... ZBRO Reverse light right
03621..... EBS.. System bus, monitoring of the axle modulator drive axle
messages by axle modulator additional axle
03621..... ZBRO Gearbox activation (T-CAN)
03622..... ZBRO EK shut-off Voith
03623..... EBS... System bus, monitoring of the vehicle dynamics control
messages by axle modulator additional axle
03623..... ZBRO Neutral at standstill ZF
03624..... ZBRO UDS accident data box reversing light
03625..... ZBR2..... Off-road range
03626..... ZBRO Reversing light buzzer
03627..... ZBRO Gear enable Voith
03628..... ZBRO Gearbox oil temperature
03629..... ZBR2..... Transfer case neutral
03630..... EBS..... System bus, monitoring of the central brake
unit messages by vehicle dynamics control
03631..... EBS..... System bus, monitoring of the axle modulator
drive axle messages by vehicle dynamics control
03632..... EBS..... System bus, monitoring of the axle modulator
additional axle messages by vehicle dynamics control
03634..... EBS..... System bus, monitoring of the steering angle
sensor messages by electronic stability program
03650..... EBS..... CAN trailer interface
03651..... EBS..... CAN trailer interface, CAN high
03652..... EBS..... CAN trailer interface, CAN low
03671..... EDC Error when reading in EEPROM
03672..... EDC Error when reading in the fault memory
03673..... EDC CAN block 2
03674..... EDC FFR1: Bank shut-off byte8/bit5-8
03675..... EDC Faulty redundant shut-off device afterrun drive
03676..... EDC Faulty redundant shut-off device afterrun test
03677..... EDC Charge air low pressure sensor
03678..... EDC Booster voltage bank 1

SPN..... Control unit/System..... Fault message

03679..... EDC Booster voltage bank 2
03680..... EDC Current high pressure pump CP3
03681..... EDC Starter output stage
03682..... EDC Averaged control rod position
03683..... EDC Signalling of activation request for output stage
03684..... EDC Starter output stage monitoring
03685..... EDC Activation pulse duty ratio for
exhaust gas recirculation valve
03686..... EDC Activation pulse duty ratio for boost pressure control
03687..... EDC Pressure relief valve
03688..... EDC Pressure controller variable (pulse duty ratio)
03689..... EDC Rail pressure control differential
03690..... EDC Synchronisation state
03691..... EDC Current equivalent of clock-pulse ratio
03692..... EDC recorded filtered temperature
03693..... EDC Booster voltage
03694..... EDC Timeout message position 4
03700..... ZBRO Retarder active
03701..... EBS Vehicle dynamics control module
03701..... ZBRO Retarder torque gearbox (T-CAN)
03702..... EDC CAN A block DPRAM error
03702..... ZBRO Retarder torque engine control (T-CAN)
03703..... EDC CAN A block error passive
03703..... ZBRO Retarder activation (T-CAN)
03704..... ZBRO Retarder off (switch)
03705..... EBS Vehicle dynamics control system,
EEPROM parameter setting
03705..... ZBRO Retarder off (button)
03706..... EBS Installation, vehicle dynamics control module,
vehicle adaptation
03706..... ZBRO Retarder off
03707..... EBS Ensure the ESP components are installed correctly
and calibrate the steering angle sensor
03707..... ZBRO Retarder off
03708..... ZBRO Retarder off check
03709..... ZBRO Engine brake off (switch)
03710..... ZBRO Engine brake off (button)

SD 812a en

SPN..... Control unit/System..... Fault message

03711	EDC	CAN B block bus off
03711	ZBRO	Engine brake off
03712	EDC	CAN B block DPRAM error
03712	ZBRO	Engine brake off
03713	ZBRO	Engine brake off check
03720	EBS	Vehicle dynamics control module, electrical power supply
03720	EDC	Supply to atmospheric pressure sensor
03721	EDC	Supply to fuel pressure sensor
03722	EDC	Supply to charge air low pressure sensor
03723	EDC	Supply to oil pressure sensor
03724	EDC	Supply to charge air pressure sensor
03726	EDC	Supply to fuel low pressure sensor
03730	EBS	Steering angle sensor
03730	EDC	Defective classification for initialisation
03731	EBS	Steering angle sensor, voltage transformer signal line
03732	EBS	Steering angle sensor, calibration
03732	EDC	Defective classification for initialisation
03733	EBS	Steering angle sensor, parameter setting
03733	EDC	High-pressure pump
03734	EBS	Steering angle sensor, steering ratio
03734	EDC	Pressure control valve
03735	EDC	EDC internal temperature
03736	EDC	Output stage shut-off by EDC
03737	EDC	Initialisation in master/slave mode
03738	EDC	Quantity correction value too great 4-cylinder engine: Cyl. 1; 6-cylinder engine: Cyl. 1; 8-cylinder engine: Master cyl. 1, slave cyl. 5; 10-cylinder engine: Master cyl. 1, slave cyl. 6; 12-cylinder engine: Master cyl. 01, slave cyl. 12
03739	EDC	Quantity correction value too great 4-cylinder engine: Cyl. 3; 6-cylinder engine: Cyl. 5; 8-cylinder engine: Master cyl. 2, slave cyl. 7; 10-cylinder engine: Master cyl. 5, slave cyl. 10; 12-cylinder engine: Master 0cyl. 5, slave cyl. 8

SPN..... Control unit/System..... Fault message

- 03740..... EDC Quantity correction value too great
4-cylinder engine: Cyl. 4;
6-cylinder engine: Cyl. 3;
8-cylinder engine: Master cyl. 3, slave cyl. 6;
10-cylinder engine: Master cyl. 2, slave cyl. 7;
12-cylinder engine: Master cyl. 03, slave cyl. 10
- 03741..... EDC Quantity correction value too great
4-cylinder engine: Cyl. 2;
6-cylinder engine: Cyl. 6;
8-cylinder engine: Master cyl. 4, slave cyl. 8;
10-cylinder engine: Master cyl. 3, slave cyl. 8;
12-cylinder engine: Master cyl. 06, slave cyl. 7
- 03742..... EDC Quantity correction value too great
6-cylinder engine: Cyl. 2;
10-cylinder engine: Master cyl. 4, slave cyl. 9;
12-cylinder engine: Master cyl. 2, slave cyl. 11
- 03743..... EDC Quantity correction value too great
6-cylinder engine: Cyl. 4;
12-cylinder engine: Master cyl. 4, slave cyl. 9
- 03744..... EDC Highside output stage exhaust gas recirculation
system throttle butterfly
- 03745..... EDC Highside output stage charge air pressure
governing system
- 03746..... EDC Highside output stage exhaust gas
recirculation system
- 03747..... EDC Highside output stage pressure governing valve
- 03748..... EDC Highside output stage metering unit
high-pressure pump CP3
- 03749..... EDC Highside output stage engine air flow sensor flap
- 03750..... EDC Highside output stage RH 07
- 03751..... EDC Highside output stage starter relay
- 03752..... EDC Segment encoder (camshaft)
- 03753..... EDC Incremental encoder (crankshaft)
- 03754..... EDC Monitoring error when system starts
- 03755..... EDC Plausibility fuel supply pressure
- 03756..... EDC Supply voltage sensor group 3 CY310
- 03758..... EDC Send error message slot 2 to partner EDC

SD 812a en

SPN..... Control unit/System..... Fault message

03759	EDC	Send error message slot 3 to partner EDC
03760	EDC	Send error message slot 4 to partner EDC
03761	EDC	Send error message slot 5 to partner EDC
03762	EDC	Timeout of the CAMD_ANA message
03763	EDC	Timeout of the CAMD_CMOL message
03764	EDC	Timeout of the CAMD_CONTROL message
03765	EDC	Timeout of the CAMD_FFR1 message
03766	EDC	Timeout of the CAMD_FFR2 message
03767	EDC	Timeout of the CAMD_FFR3 message
03768	EDC	Fault status of the CAMD_INIT message
03769	EDC	Timeout of the CAMD_Limit message
03771	EDC	Master / slave error in reception of vehicle management computer CAN
03772	EDC	Monitoring terminal 15
03773	EDC	Operating mode change error master/slave
03774	EDC	Temporary CMOL mode of the partner EDC
03775	EDC	Rail pressure monitoring
03776	EDC	Excessive positive control differential (control system cannot compensate for too low rail pressure)
03777	EDC	Excessive negative control differential (control system cannot compensate for too high rail pressure)
03778	EDC	Rail pressure: Leakage in overrun conditions
03779	EDC	Rail pressure: Leakage in quantity compensation
03780	EDC	Rail pressure: High controller output when idling
03781	EDC	Pressure relief valve open (pressure too high)
03782	EDC	Fuel supply pressure dynamic
03783	EDC	FFR (vehicle management computer) 2: Bit error max. permitted engine acceleration
03784	EDC	Bit error smoke ID
03785	EDC	Monitoring particle filter/PM catalytic converter
03786	EDC	Particulate filter temperature limits
03787	EDC	No particulate filter regeneration
03788	EDC	Exhaust differential pressure
03789	EDC	Exhaust differential pressure sensor
03790	EDC	Exhaust differential pressure plausibility

SPN..... Control unit/System..... Fault message

03791	EDC	Exhaust temperature before particulate filter
03792	EDC	Exhaust temperature sensor before particulate filter
03793	EDC	Exhaust temperature after particulate filter
03794	EDC	Exhaust temperature sensor after particulate filter
03795	EDC	Exhaust gas recirculation throttle butterfly
03796	EDC	Highside output stage exhaust gas recirculation system 2
03797	EDC	Highside output stage lambda probe
03798	EDC	Output stage OBD lamp (MIL)
03799	EDC	Highside output stage reserve 01
03800	EDC	Highside output stage reserve 02
03800	ZBR2	Air suspension/ECAS
03801	EDC	Highside output stage reserve 03
03801	OBDU	No engine start for at least 3 weeks
03802	EDC	Highside output stage stop valve compressed air
03802	OBDU	No engine start for at least 10 weeks
03803	EDC	Engine CAN transmit error, no message available in vehicle management computer
03804	EDC	Engine CAN receive error, not possible to receive a message from vehicle management computer
03805	EDC	Master/slave CAN communication disrupted, bus load too high
03806	EDC	Master/slave CAN communication disrupted, receive error
03806	ZBRO	Raise bus again
03807	EDC	Vehicle management computer sends invalid value in FFR1 message
03807	ZBRO	Raise bus again
03808	EDC	Vehicle management computer sends invalid value in FFR2 message
03809	EDC	Vehicle management computer sends invalid value in FFR3 message
03809	ZBRO	ECAS malfunction
03810	EDC	Vehicle management computer sends invalid numerical value, date/time error
03810	ZBRO	ECAS warning
03811	ZBRO	ECAS governing suppression brake
03812	EDC	Particulate filter temperature plausibility

SPN..... Control unit/System..... Fault message

03812	ZBRO	Kneeling lowering
03813	EDC	Starter monitoring
03813	ZBRO	Kneeling lowering
03814	EDC	Recording of control unit switch-off duration
03814	ZBRO	Kneeling fully lowered
03815	EDC	Exhaust backpressure
03815	ZBRO	Kneeling fully lowered
03816	EDC	Exhaust backpressure sensor
03816	ZBRO	Kneeling raise
03817	EDC	Permanent system deviation exhaust backpressure
03817	ZBRO	Kneeling raise
03818	EDC	Exhaust backpressure plausibility
03818	ZBRO	Kneeling, manual/automatic
03819	EDC	CAN block 3
03819	ZBRO	Kneeling automatic
03820	EDC	Byte monitoring CAN 1 (oil, ambient and air temperature)
03820	ZBRO	Kneeling automatic check
03821	EDC	Byte monitoring CAN 3 (exhaust temperature, AdBlue fill level, AdBlue temperature)
03821	ZBRO	Kneeling raise control unit (16)
03822	EDC	Time overrun CAN 3, exhaust CAN
03822	ZBRO	Kneeling emergency raise
03823	EDC	Misfiring on several cylinders
03823	ZBRO	Kneeling emergency raise
03824	EDC	Misfiring status master 8-cylinder engine: Cylinder 1; 10-cylinder engine: Cylinder 1; 12-cylinder engine: Cylinder 1
03824	ZBRO	Kneeling emergency raise prio. 1
03825	EDC	Misfiring status master 8-cylinder engine: Cylinder 2; 10-cylinder engine: Cylinder 5; 12-cylinder engine: Cylinder 5
03826	ZBRO	Kneeling lower control unit (19)

SPN..... Control unit/System..... Fault message

03827	EDC	Misfiring status master 8-cylinder engine: Cylinder 4; 10-cylinder engine: Cylinder 3; 12-cylinder engine: Cylinder 6
03827	ZBRO	Kneeling door open
03828	EDC	Misfiring status master 10-cylinder engine: Cylinder 4; 12-cylinder engine: Cylinder 2
03828	ZBRO	Air suspension reservoir too low
03829	EDC	Misfiring status master 12-cylinder engine: Cylinder 4
03829	ZBRO	Air suspension reservoir too low
03830	EDC	Misfiring status 4-cylinder engine: Cylinder 1; 6-cylinder engine: Cylinder 1; slave 8-cylinder engine: Cylinder 5; 10-cylinder engine: Cylinder 6; 12-cylinder engine: Cylinder 12
03830	ZBRO	v ≤ 3 km/h and no door interlock
03831	EDC	Misfiring status 4-cylinder engine: Cylinder 3; 6-cylinder engine: Cylinder 5; slave 8-cylinder engine: Cylinder 7; 10-cylinder engine: Cylinder 10; 12-cylinder engine: Cylinder 8
03831	ZBRO	v > 3 km/h or door interlock
03832	EDC	Misfiring status 4-cylinder engine: Cylinder 4; 6-cylinder engine: Cylinder 3; slave 8-cylinder engine: Cylinder 6; 10-cylinder engine: Cylinder 7; 12-cylinder engine: Cylinder 10
03832	ZBRO	Moving-off aid

SPN..... Control unit/System..... Fault message

03833..... EDC Misfiring status
4-cylinder engine: Cylinder 2;
6-cylinder engine: Cylinder 6;
slave
8-cylinder engine: Cylinder 8;
10-cylinder engine: Cylinder 8;
12-cylinder engine: Cylinder 7

03833..... ZBRO Moving-off aid

03834..... EDC Misfiring status
6-cylinder engine: Cylinder 2;
slave
10-cylinder engine: Cylinder 9;
12-cylinder engine: Cylinder 11

03834..... ZBRO Moving-off aid check

03835..... EDC Misfiring status
6-cylinder engine: Cylinder 4;
slave
12-cylinder engine: Cylinder 9

03835..... ZBRO Moving-off aid switch-off

03836..... EDC Lambda probe sensor acquisition

03836..... ZBRO Lifting bus above normal level

03837..... EDC Lambda probe sensor acquisition

03837..... ZBRO Lifting bus above normal level

03838..... EDC Lambda probe internal resistance, physical

03838..... ZBRO Lowering bus again

03839..... EDC Lambda probe internal resistance

03839..... ZBRO Lowering bus below ride height

03840..... EDC Oil temperature sensor

03840..... ZBRO Lowering bus below ride height

03841..... EDC Coolant pressure sensor

03841..... ZBRO Bus normal level

03842..... EDC Coolant pressure plausibility

03842..... ZBRO ECAS activation (T-CAN)

03843..... EDC Coolant temperature plausibility

03843..... ZBRO Kneeling start interlock

03844..... EDC Plausibility, temperature ahead of cylinder inlet

03844..... ZBRO NLA bellows is depressurised (p < 0.3 bar)

SPN..... Control unit/System..... Fault message

03845	EDC	Ambient air temperature plausibility
03845	ZBRO	Switch off NLA bellows depressurisation
03846	EDC	Control unit configuration
03846	ZBRO	Driven axle pressurised (p > 8.4 bar)
03847	EDC	Charge air temperature sensor ahead of motor
03847	ZBRO	ECAS malfunction flashing at 1 Hz
03848	EDC	Ambient air temperature sensor
03848	ZBRO	ECAS malfunction continuous light
03849	EDC	Catalyser not installed
03849	ZBRO	ECAS warning or malfunction 2 Hz
03850	EDC	Position deviation enclosed exhaust gas recirculation
03850	ZBRO	ECAS warning flashing at 1 Hz
03851	EDC	Exhaust gas recirculation flap position sensor
03852	EDC	Exhaust gas recirculation temperature plausibility
03853	EDC	Permanent system deviation exhaust gas recirculation
03854	EDC	EDC internal temperature sensor 2
03855	EDC	Lambda probe system
03856	EDC	Lambda probe calibration
03857	EDC	Lambda probe communication
03858	EDC	Lambda probe temperature
03859	EDC	Lambda probe temperature calibration
03860	EDC	Turbine wheel speed
03861	EDC	Turbine wheel speed sensor
03862	EDC	NBF pulses without quantity requests (redundant control travel monitoring)
03863	EDC	Trailing throttle monitoring
03903	ZBR2	Tank/ fuel level
03904	OBDU	Reservoir pressure circuit 1 (too low)
03905	OBDU	Reservoir pressure circuit 2 (too low)
03906	OBDU	Reservoir pressure circuit 3 (too low)
03907	OBDU	Reservoir pressure circuit 4 (too low)
03909	OBDU	Previous circuit defective
03913	OBDU	ECAM in pneumatic backup, CAN OK
03915	OBDU	ASR engine governor failure
03918	ZBRO	Fuel tank almost empty
03919	ZBR2	Fill level Gas2
03920	ZBR2	Fill level Gas3

SPN..... Control unit/System..... Fault message

04000	AST	Foot off accelerator pedal
04000	EBS	Central control unit - B-controller: Brake performance test
04000	EDC	Communication fault to CRT control unit
04000	TBM	No response to DM4 request to control unit 0
04000	ZBR2	External lighting
04000	ZBRO	Headlight low beam
04001	AST	Low air pressure
04001	EBS	Central control unit - A-controller: Checksum error in configuration RAM
04001	EDC	Exhaust temperature too high or communication fault to CRT control unit
04001	INT	Accumulator charge valve
04001	SFFR	Selector lever position
04001	ZBR2	Headlight low beam, left
04001	ZBRO	Low beam left
04002	AST	Clutch overload
04002	EBS	Central control unit - A-controller: Internal data memory
04002	INT	Engine brake request
04002	SFFR	Speed request ship vehicle management computer
04002	ZBR2	Headlight low beam, right
04002	ZBRO	Low beam right
04003	EBS	Central control unit - B-controller: ESP intervention implausible
04003	INT	Intarder check lamp
04003	SFFR	Terminal 15
04003	ZBR2	Right headlight adjustment
04004	AST	Clutch word
04004	EBS	ESP logic, incorrect configuration
04004	HVA	EEPROM error
04004	INT	Display, temperature reduction
04004	SFFR	Voltage selector lever
04004	TBM	No response to DM4 request to control unit 4
04004	ZBR2	Left headlight adjustment
04005	AST	Overtemperature
04005	EBS	Central control unit - B-controller: Pressure regulating valves (ABS) are in an undefined status
04005	INT	Brake lamp output

SPN..... Control unit/System..... Fault message

04005..... SFFR..... Voltage pedal value sensor
04005..... ZBR2..... Turn indicators, tractive unit, rear left
04005..... ZBRO..... Turn indicator rear left bottom
04006..... EBS..... Central control unit - B-controller: Calculated ISC pressures in A and B-controller do not match
04006..... INT..... Fault lamp output
04006..... ZBR2..... Turn indicators, tractive unit, rear right
04006..... ZBRO..... Turn indicator rear right bottom
04007..... EBS..... ABS logic, FMI 3 = Pressure plausibility / FMI 8 = Data record plausibility
04007..... HVA..... Failure of CAN message CCVeh_Speed
04007..... INT..... Cruise control shut-off
04007..... ZBR2..... Turn indicator, tractive unit s/f, left
04007..... ZBRO..... Turn indicator front left side
04008..... EBS..... ABS (pressure control valve): Installed but no components configured
04008..... HVA..... Failure of CAN message EBC2
04008..... INT..... Braking level selector supply
04008..... ZBR2..... Turn indicator, tractive unit s/f, right
04008..... ZBRO..... Turn indicator front right side
04009..... EBS..... Central control unit
04009..... HVA..... Failure of CAN message EEC1
04009..... INT..... Proportional valve
04009..... ZBR2..... Hall sensor, indicator stalk switch RL
04010..... EBS..... Central control unit - Internal controller communication of the A-controller, checksum error
04010..... HVA..... Failure of CAN message EBC1
04010..... INT..... Earth return, proportional valve
04010..... ZBR2..... Hall sensor, indicator stalk switch RR
04011..... EBS..... Central control unit - Internal controller communication of the A-controller, interruption in communication
04011..... HVA..... ABS signals 'Not fully operational'
04011..... INT..... Output ADM2
04011..... ZBR2..... Switch, indicators, left (button)
04011..... ZBRO..... Turn indicator, left
04012..... EBS..... Central control unit - Internal controller communication of the A-controller, format error

SPN..... Control unit/System..... Fault message

04012..... HVA..... Cable fault oil temperature sensor (pin III/3 or IV/18)
04012..... INT Speed sensor, gearbox output
04012..... ZBR2..... Switch, indicators, right (button)
04012..... ZBRO Turn indicator, right
04013..... EBS..... Central control unit - A-controller, format error
04013..... HVA..... Oil pressure sensor signals 'No oil pressure'
04013..... INT Temperature detection, system error
04013..... ZBR2..... Check lamp, hazard warning lights
04013..... ZBRO Hazard warning lights check
04014..... EBS..... Central control unit - Internal controller communication
of the B-controller, checksum error
04014..... HVA..... Oil pressure sensor signals 'Continuous oil pressure'
04014..... INT Readback current, proportional valve
04014..... ZBR2..... Hazard warning light switch
04014..... ZBRO Hazard warning light switch
04015..... EBS..... Central control unit - Internal controller communication
of the B-controller interruption in communication
04015..... HVA..... Cable fault oil pressure sensor (pin III/4, II/5 or I/5)
04015..... INT Power supply
04015..... ZBR2..... Turn indicators in trailer, left
04015..... ZBRO Turn indicator left trailer
04016..... EBS..... Central control unit - Internal controller communication
of the B-controller, format error
04016..... HVA..... Fault at output ZP1 (pin IV/11)
04016..... INT Braking level selector
04016..... ZBR2..... Turn indicators in trailer, right
04016..... ZBRO Turn indicator right trailer
04017..... EBS..... Central control unit EEPROM: Implausible values in
'General vehicle configuration' block
04017..... HVA..... Fault at output ZP2 (pin IV/2 or IV/6)
04017..... INT Operating hours counter, system error
04017..... ZBR2..... Headlight high beam, left
04017..... ZBRO High beam 1 left
04018..... EBS..... Central control unit EEPROM: Checksum error in
'General vehicle configuration' block
04018..... INT Fault memory, system error
04018..... ZBR2..... Headlight high beam, right

SPN..... Control unit/System..... Fault message

04025..... EBS..... Central control unit EEPROM: Implausible values in
'Own axle configuration' block

04025..... INT CAN data bus, BusOff

04025..... SFFR..... Engine CAN

04025..... ZBR2..... Rear fog lamp, trailer

04025..... ZBRO..... Rear fog lamp trailer

04026..... EBS..... Central control unit EEPROM: Checksum error in
'Own axle configuration' block

04026..... INT CAN data bus, message EBC1 from EBS/ABS

04026..... SFFR..... MMDS CAN

04026..... ZBR2..... Fog lamp, right

04026..... ZBRO..... Fog lamp right

04027..... EBS..... Central control unit EEPROM: Implausible values in
'General CAN configuration' block

04027..... INT CAN data bus, acknowledge system error

04027..... SFFR..... Engine CAN: Time overrun when receiving EDC
message EDC1

04027..... ZBR2..... Fog lamp, left

04027..... ZBRO..... Fog lamp left

04028..... EBS..... Central control unit EEPROM: Checksum error in
'General CAN configuration' block

04028..... INT CAN data bus, message EEC1 from EDC

04028..... SFFR..... Engine CAN: Time overrun when receiving EDC
message EDC2

04028..... ZBR2..... Switch-on enable check lamp, fog lamps

04029..... EBS..... Central control unit EEPROM: Implausible values in
'General function configuration' block

04029..... INT CAN data bus, message TCO1 from tachograph

04029..... SFFR..... Engine CAN: Time overrun when receiving EDC
message EDC3

04029..... ZBR2..... Relay, additional fog lamps

04030..... EBS..... Central control unit EEPROM: Checksum error in
'General function configuration' block

04030..... INT LED

04030..... SFFR..... Engine CAN: Time overrun when receiving EDC
message EDC4

04030..... ZBR2..... Current, parking light, tractive unit, right

SPN..... Control unit/System..... Fault message

04031 EBS Central control unit EEPROM: Implausible values in
'General ISR configuration' block

04031 INT CAN data bus, message CCVS from FFR

04031 SFFR Engine CAN: Time overrun when receiving EDC
message EDC5

04031 ZBR2 Current, parking light, tractive unit, left

04032 EBS Central control unit EEPROM: Checksum error in
'General ISR configuration' block

04032 INT CAN data bus, message ERC1_ER from EDC

04032 SFFR Engine CAN: Time overrun when receiving EDC
message EngineConfig

04032 ZBR2 Current, parking light, right

04033 EBS Central control unit EEPROM: Implausible values in
'Own ISR configuration' block

04033 INT CAN data bus, message ETC1 from gearbox

04033 SFFR MMDS CAN: Time overrun when receiving MMDS
message TSC1-FME.

04033 ZBR2 Current, parking light, left

04034 EBS Central control unit EEPROM: Checksum error in
'Own ISR configuration' block

04034 INT CAN data bus, message ETC1 from FFR

04034 SFFR MMDS CAN: Time overrun when receiving MMDS
message Time/Date

04034 ZBR2 Side marker light, right

04035 EBS Central control unit EEPROM: Implausible values in
'Own ABS configuration' block

04035 INT CAN data bus, message ETP from EDC

04035 SFFR MMDS CAN: Time overrun when receiving MMDS
message VehDistance

04035 ZBR2 Side marker light, left

04036 EBS Central control unit EEPROM: Checksum error in
'Own ABS configuration' block

04036 INT CAN data bus, message ERC1 from FFR

04036 ZBR2 Current, parking light, trailer, right

04036 ZBRO Tail light right trailer

04037 EBS Central control unit EEPROM: Implausible values in
'Own ASR configuration' block

SPN..... Control unit/System..... Fault message

04037 INTCAN data bus, message TSC1 from FFR

04037 ZBR2.....Current, parking light, trailer, left

04037 ZBROTail light left trailer

04038 EBS..... Central control unit EEPROM: Checksum error in
'Own ASR configuration' block

04038 INT CAN data bus, time/date message from tachograph

04038 ZBR2.....Relay, parking lights left

04039 EBS..... Central control unit EEPROM: Implausible values in
'General ESP configuration' block

04039 INT CAN data bus, mileage message (HRVD) from tachograph

04039 ZBR2..... Parking light switch

04039 ZBRO Parking light switch

04040 EBS..... Central control unit EEPROM: Checksum error in
'General ESP configuration' block

04040 INTLamp, Bremsomat/braking control active

04040 ZBR2..... Winter service relay

04041 EBS..... Central control unit EEPROM: Implausible values in
'Own ESP configuration' block

04041 INT CAN data bus, ABS message from EBS/ABS

04041 ZBR2.....Relay, blackout light

04042 EBS..... Central control unit EEPROM: Checksum error in
'Own ESP configuration' block

04042 INT CAN data bus, FMR1 message from FFR

04042 ZBR2..... Perform lighting training again

04043 EBS..... Central control unit EEPROM: Implausible values in
'Own plausibility configuration' block

04043 INTFlashing code lamp

04043 ZBR2..... Interlock function, light test

04044 EBS..... Central control unit EEPROM: Checksum error in
'Own plausibility configuration' block

04044 INT CAN data bus, message FMR2

04044 ZBR2.....Release function, light test

04045 EBS..... Central control unit EEPROM: Implausible values
from 'Error memory'

04045 INTCAN data bus, message EPS

04045 ZBR2..... Turn indicators operated for both directions

SPN..... Control unit/System..... Fault message

04046..... EBS.....Central control unit EEPROM: Checksum error
for 'Error memory'

04046..... ZBR2.....ALW not calibrated

04047..... EBS..... Central control unit EEPROM: Implausible values
in 'Axle configuration' block

04047..... INT Vehicle electrical system terminal 30

04047..... ZBRO Turn indicator rear left top

04048..... EBS.....Central control unit EEPROM: Checksum error
in 'Self-taught EBS data' block

04048..... ZBRO Turn indicator rear right top

04049..... EBS.....Central control unit EEPROM: Checksum error
in 'Own test' block

04049..... ZBRO Turn indicator rear left side

04050..... EBS..... Brakes CAN

04050..... ZBRO Turn indicator rear right side

04051..... EBS.....ESP sensor CAN: System bus off

04051..... ZBRO Turn indicator front left

04052..... EBS..... Electrical power supply, comparison between
terminal 15 and terminal 30

04052..... ZBRO Turn indicator front right

04053..... EBS..... Earth 2

04053..... ZBRO School bus button

04054..... EBS..... Control unit switch-off delay: Fault in electronic circuit

04054..... ZBRO School bus button

04055..... EBS.....ASR: Invalid configuration

04055..... ZBRO School bus button check

04056..... EBS..... Central control unit - B-controller: Checksum
error in boot software

04056..... ZBRO Additional turn indicator behind bumper

04057..... EBS..... Pressure control valve

04057..... ZBRO Clicker relay

04058..... EBS..... Steering angle sensor, CAN communication

04058..... ZBROHazard warning light switch CAN

04059..... EBS.....Steering angle sensor signal

04059..... ZBRO Hazard warning light switch external

04060..... EBS..... Steering angle sensor, installed but not configured

04060..... ZBRO Headlight high beam

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SPN..... Control unit/System..... Fault message

04061 EBS Yaw rate sensor, quick calibration faulty
04061 ZBRO High-beam headlight check
04062 EBS Yaw rate sensor signal
04062 ZBRO Licence plate light(s)
04063 EBS Yaw rate sensor, CAN communication
04063 ZBRO Rear fog lamp
04064 EBS Yaw rate sensor, sensor installed incorrectly
04064 ZBRO Rear fog lamp right
04065 EBS Yaw rate sensor, installed but not configured
04065 ZBRO Rear fog lamp left
04066 EBS Yaw angle sensor, long-time calibration incorrect
04066 ZBRO Rear fog lamp trailer right
04067 EBS Transverse acceleration sensor signal
04067 ZBRO Rear fog lamp trailer left
04068 EBS Steering angle sensor, long-time calibration incorrect
04068 ZBRO Fog lamps
04069 EBS Steering angle sensor signal, implausible with
regard to reference rate of turn
04069 ZBRO Fog lamps
04070 EBS Steering angle sensor, signal gradient
04070 ZBRO Tail light right
04071 EBS Steering angle sensor, sensor installed incorrectly
04071 ZBRO Tail light left
04072 EBS ESP sensor supply
04072 ZBRO Side marker light 1 right
04073 EBS Service brake module supply
04073 ZBRO Side marker light 1 left
04074 EBS Pressure control module, outdated driver software
04074 ZBRO Side marker light 2 right
04075 EBS Inconsistent driver software status between
ECU and pressure control module
04075 ZBRO Side marker light 2 left
04076 EBS Pressure control module, checksum error in
external flash memory
04076 ZBRO Side marker light 3 right
04077 EBS Pressure control module, installed but not configured
04077 ZBRO Side marker light 3 left

SPN..... Control unit/System..... Fault message

04078	EBS	Trailer control module - intake valve
04078	ZBRO	Side marker light 4 right
04079	EBS	Trailer control module - exhaust valve
04079	ZBRO	Side marker light 4 left
04080	EBS	Trailer control module: Check valve
04080	ZBRO	Side marker light 5 right
04081	EBS	Trailer control module - pressure sensor supply
04081	ZBRO	Side marker light 5 left
04082	EBS	Trailer control module
04082	ZBRO	Side marker light 6 right
04083	EBS	Trailer control module, short circuit between intake and exhaust valves
04083	ZBRO	Side marker light 6 left
04084	EBS	Trailer control module, short circuit between check and intake valves
04084	ZBRO	Side marker light 7 right
04085	EBS	Trailer control module, short circuit between check and exhaust valves
04085	ZBRO	Side marker light 7 left
04086	EBS	Wheel sensor wheel 7
04086	ZBRO	Side marker light 8 right
04087	EBS	Wheel sensor wheel 7: Connection cable damaged or sensor defective
04087	ZBRO	Side marker light 8 left
04088	EBS	Wheel sensor wheel 8
04088	ZBRO	Parking light right
04089	EBS	Wheel sensor wheel 8: Connection cable damaged or sensor defective
04089	ZBRO	Parking light left
04090	EBS	Brake pad wear connection wheel 1
04090	ZBRO	Outline light rear right
04091	EBS	Brake pad wear sensor signal wheel 7
04091	ZBRO	Outline light rear left
04092	EBS	Brake pad wear sensor wheel 7: Difference between the 2 signals on the left and right sides of the axle too great
04092	ZBRO	Outline light front right

SPN..... Control unit/System..... Fault message

04093..... EBS..... Brake pad wear sensor signal wheel 8

04093..... ZBRO..... Outline light front left

04094..... EBS..... Brake pad wear sensor wheel 8:
Difference between the 2 signals on the left and
right sides of the axle too great

04094..... ZBRO..... Turn indicator check

04095..... EBS..... Pressure module control unit on wheel 1,
incompatible software components

04095..... ZBRO..... Turn indicator check trailer

04096..... EBS..... Pressure module control unit on wheel 1,
fault in electronic circuit

04096..... ZBRO..... Parking light 1 (tl. 58 for body builder)

04097..... EBS..... Pressure module control unit on wheel 1,
internal control unit test incorrect

04097..... ZBRO..... Parking light 2 (tl. 58 for body builder)

04098..... EBS..... Pressure module control unit on wheel 1,
unknown pressure control module fault code

04098..... ZBRO..... Reversing light trailer

04099..... EBS..... Pressure module control unit on wheel 1,
incorrect system monitoring after activation

04100..... EBS..... Pressure module control unit on wheel 2,
incompatible software components

04100..... ZBR2..... Headlight low beam, snowplough and
gritter operation, right

04101..... EBS..... Pressure module control unit on wheel 2,
fault in electronic circuit

04101..... EMOS..... Gearshift sensor position

04101..... ZBR2..... Headlight low beam, snowplough and
gritter operation, left

04102..... EBS..... Pressure module control unit on wheel 2,
internal control unit test incorrect

04102..... EMOS..... Selection sensor position

04102..... ZBR2..... Headlight high beam, snowplough and
gritter operation, right

04103..... EBS..... Pressure module control unit on wheel 2,
unknown pressure control module fault code

04103..... EMOS..... Engine signal

SPN..... Control unit/System..... Fault message

04103..... ZBR2..... Headlight high beam, snowplough and
gritter operation, left

04104..... EBS..... Pressure module control unit on wheel 2,
incorrect system monitoring after activation

04104..... EMOS Gearbox pressure sensor signal

04104..... ZBR2..... Current, parking light, tractive unit, snowplough and
gritter operation, right

04105..... EBS..... Pressure module control unit on wheel 3,
incompatible software components

04105..... EMOS Selector lever information

04105..... ZBR2..... Current, parking light, tractive unit, snowplough and
gritter operation, left

04106..... EBS..... Pressure module control unit on wheel 3,
fault in electronic circuit

04106..... EMOS Request PTO1 signal

04106..... ZBRO..... School bus lights check

04107..... EBS..... Pressure module control unit on wheel 3,
internal control unit test incorrect

04107..... EMOS Request PTO2 signal

04107..... ZBRO..... School bus light left

04108..... EBS..... Pressure module control unit on wheel 3,
unknown pressure control module fault code

04108..... EMOS Coding PTO1 signal

04108..... ZBRO..... School bus light right

04109..... EBS..... Pressure module control unit on wheel 3,
incorrect system monitoring after activation

04109..... EMOS Coding PTO2 signal

04109..... ZBR2..... Switch, blackout light

04110..... EBS..... Pressure module control unit on wheel 4,
incompatible software components

04110..... EMOS PTO1 engaged signal

04110..... ZBRO..... Fog lamps check

04111..... EBS..... Pressure module control unit on wheel 4,
fault in electronic circuit

04111..... EMOS PTO2 engaged signal

04111..... ZBRO..... Side marker light 9 left

SPN..... Control unit/System..... Fault message

04112..... EBS..... Pressure module control unit on wheel 4,
internal control unit test incorrect

04112..... EMOS Timeout of EEC3 message

04112..... ZBRO..... Side marker light 9 right

04113..... EBS..... Pressure module control unit on wheel 4,
unknown pressure control module fault code

04113..... EMOS Timeout Eng_Temp

04113..... ZBR2..... Relay, parking lights right

04114..... EBS..... Pressure module control unit on wheel 4,
incorrect system monitoring after activation

04114..... EMOS Timeout of Amb_Cond message

04114..... ZBRO..... Daytime driving lights

04115..... EBS..... Pressure module control unit on wheel 5,
incompatible software components

04115..... EMOS Timeout of ETC3 message

04115..... ZBR2..... Number of height sensors RA set in
parameters is incorrect (in ALW)

04116..... EBS..... Pressure module control unit on wheel 5,
fault in electronic circuit

04116..... EMOS Send error of TSC1_TE message

04116..... ZBRO..... Light test active

04117..... EBS..... Pressure module control unit on wheel 5,
internal control unit test incorrect

04117..... EMOS Send error of ETC1 message

04117..... ZBRO..... Light test cancel

04118..... EBS..... Pressure module control unit on wheel 5,
unknown pressure control module fault code

04118..... EMOS Error warning vehicle CAN

04118..... ZBRO..... Light test end

04119..... EBS..... Pressure module control unit on wheel 5,
incorrect system monitoring after activation

04119..... EMOS Timeout of Transm_Fluids message

04120..... EBS..... Pressure module control unit on wheel 6,
incompatible software components

04120..... EMOS Timeout of KSM1 message

04121..... EBS..... Pressure module control unit on wheel 6,
fault in electronic circuit

SPN..... Control unit/System..... Fault message

- 04121..... EMOSChecksum error when reading out data
from EEPROM on ECU start
- 04122..... EBS.....Pressure module control unit on wheel 6,
internal control unit test incorrect
- 04122..... EMOS Electrical power supply of gearshift and
selection sensor: Value range exceeded
- 04123..... EBS.....Pressure module control unit on wheel 6,
unknown pressure control module fault code
- 04123..... EMOS Clutch biting point cannot be ascertained
- 04124..... EBS.....Pressure module control unit on wheel 6,
incorrect system monitoring after activation
- 04124..... EMOS Gear disengagement
- 04125..... EBS.....Pressure module control unit on wheel 1,
EEPROM data record is not compatible with the system
- 04125..... EMOS Gate selection in gear engagement
- 04126..... EBS.....Pressure module control unit on wheel 1,
EEPROM cannot be written
- 04126..... EMOSGear selection procedure
- 04127..... EBS.....Pressure module control unit on wheel 2,
EEPROM data record is not compatible with the system
- 04127..... EMOS Gear synchronisation
- 04128..... EBS.....Pressure module control unit on wheel 2,
EEPROM cannot be written
- 04128..... EMOS Gear engagement
- 04129..... EBS.....Pressure module control unit on wheel 3,
EEPROM data record is not compatible with the system
- 04129..... EMOS Timeout of ERC1_RX message
- 04130..... EBS.....Pressure module control unit on wheel 3,
EEPROM cannot be written
- 04130..... EMOS Float switch signals Pentosin level too low
- 04131..... EBS.....Pressure module control unit on wheel 4,
EEPROM data record is not compatible with the system
- 04131..... EMOS Gearshift sensor temperature
- 04132..... EBS.....Pressure module control unit on wheel 4,
EEPROM cannot be written
- 04132..... EMOS Selection sensor temperature

SPN..... Control unit/System..... Fault message

04133..... EBS..... Pressure module control unit on wheel 5,
EEPROM data record is not compatible with the system

04133..... EMOS Timeout of PROP_A message

04134..... EBS..... Pressure module control unit on wheel 5,
EEPROM cannot be written

04134..... EMOS Tear-off or undervoltage of VPHS (TL 30-1).
Pump inoperative or only operable with restrictions.

04135..... EBS..... Pressure module control unit on wheel 6,
EEPROM data record is not compatible with the system

04135..... EMOS Tear-off or undervoltage of VP (TL 30-2).
Redundant power supply is no longer available.

04136..... EBS..... Pressure module control unit on wheel 6,
EEPROM cannot be written

04136..... EMOS Tear-off or excessive voltage drop of VMHS
(TL 31-1). ECU power supply via VM (TL 31-2).
Pump inoperative or only operable with restrictions.

04137..... EBS..... Power supply pressure module on wheel 1,
short circuit to terminal 15

04138..... EBS..... Power supply pressure module on wheel 1

04139..... EBS..... Power supply pressure module on wheel 1,
short circuit between the connection cables

04139..... EMOS Main switch-off relay 1 discontinuity

04140..... EBS..... Power supply pressure module on wheel 2,
short circuit to terminal 15

04141..... EBS..... Power supply pressure module on wheel 2

04141..... EMOS Main switch-off relay 2 discontinuity

04142..... EBS..... Power supply pressure module on wheel 2,
short circuit between the connection cables

04143..... EBS..... Power supply pressure module on wheel 3,
short circuit to terminal 15

04144..... EBS..... Power supply pressure module on wheel 3

04145..... EBS..... Power supply pressure module on wheel 3,
short circuit between the connection cables

04146..... EBS..... Power supply pressure module on wheel 4,
short circuit to terminal 15

04147..... EBS..... Power supply pressure module on wheel 4

SPN..... Control unit/System..... Fault message

- 04148..... EBS..... Power supply pressure module on wheel 4,
short circuit between the connection cables
- 04149..... EBS..... Power supply pressure module on wheel 5,
short circuit to terminal 15
- 04150..... EBS..... Power supply pressure module on wheel 5
- 04151..... EBS..... Power supply pressure module on wheel 5,
short circuit between the connection cables
- 04152..... EBS..... Power supply pressure module on wheel 6,
short circuit to terminal 15
- 04152..... EMOS Pump activation, ECU problem
- 04153..... EBS..... Power supply pressure module on wheel 6
- 04154..... EBS..... Power supply pressure module on wheel 6,
short circuit between the connection cables
- 04155..... EBS..... CAN signal brake on wheel 1
- 04156..... EBS..... CAN signal brake on wheel 2
- 04157..... EBS..... CAN signal brake on wheel 3
- 04158..... EBS..... CAN signal brake on wheel 4
- 04159..... EBS..... CAN signal brake on wheel 5
- 04160..... EBS..... CAN signal brake on wheel 6
- 04160..... EMOS .. 'Idling speed switch' signal or 'Kickdown active' signal
- 04161..... EBS..... CAN signal brake on wheel 1, time overrun
of message 11
- 04161..... EMOS Wheel differential speed signal
- 04162..... EBS..... CAN signal brake on wheel 1, time overrun
of message 12
- 04162..... EMOS ... Time information via CAN is not completely available
- 04163..... EBS..... CAN signal brake on wheel 1, time overrun
of message 13
- 04163..... EMOS On-time exceeded for 'Open clutch' actuator system
- 04164..... EBS..... CAN signal brake on wheel 1, time overrun
of message 14
- 04164..... EMOS On-time exceeded for 'Close clutch' actuator system
- 04165..... EBS..... CAN signal brake on wheel 1, time overrun
of message 21
- 04165..... EMOS On-time exceeded for selection actuator system
- 04166..... EBS..... CAN signal brake on wheel 1, time overrun
of message 22

SPN..... Control unit/System..... Fault message

04166..... EMOS On-time exceeded for engagement actuator system

04167..... EBS.....CAN signal brake on wheel 1, time overrun
of message 23

04167..... EMOS On-time exceeded for hydraulic pump

04168..... EBS.....CAN signal brake on wheel 1, time overrun
of message 24

04168..... EMOS Temperature below permitted limit value

04169..... EBS.....CAN signal brake on wheel 2, time overrun
of message 11

04170..... EBS.....CAN signal brake on wheel 2, time overrun
of message 12

04170..... EMOS Safety device (WDC/redundant shut-off path)
does not function

04171..... EBS.....CAN signal brake on wheel 2, time overrun
of message 13

04171..... EMOS 'Temperature sensor next to pump output stage' signal

04172..... EBS.....CAN signal brake on wheel 2, time overrun
of message 14

04172..... EMOS .. No pressure build-up possible during pump activation

04173..... EBS.....CAN signal brake on wheel 2, time overrun
of message 21

04174..... EBS.....CAN signal brake on wheel 2, time overrun
of message 22

04175..... EBS.....CAN signal brake on wheel 2, time overrun
of message 23

04176..... EBS.....CAN signal brake on wheel 2, time overrun
of message 24

04177..... EBS.....CAN signal brake on wheel 3, time overrun
of message 11

04178..... EBS.....CAN signal brake on wheel 3, time overrun
of message 12

04179..... EBS.....CAN signal brake on wheel 3, time overrun
of message 13

04180..... EBS.....CAN signal brake on wheel 3, time overrun
of message 14

04180..... EMOSSequence monitoring has detected error
in function call sequence

SPN..... Control unit/System..... Fault message

- 04181 EBSCAN signal brake on wheel 3, time overrun
of message 21
- 04181 EMOSSecurity layer activated
- 04182 EBSCAN signal brake on wheel 3, time overrun
of message 22
- 04183 EBSCAN signal brake on wheel 3, time overrun
of message 23
- 04184 EBSCAN signal brake on wheel 3, time overrun
of message 24
- 04185 EBSCAN signal brake on wheel 4, time overrun
of message 11
- 04186 EBSCAN signal brake on wheel 4, time overrun
of message 12
- 04187 EBSCAN signal brake on wheel 4, time overrun
of message 13
- 04188 EBSCAN signal brake on wheel 4, time overrun
of message 14
- 04189 EBSCAN signal brake on wheel 4, time overrun
of message 21
- 04190 EBSCAN signal brake on wheel 4, time overrun
of message 22
- 04191 EBSCAN signal brake on wheel 4, time overrun
of message 23
- 04192 EBSCAN signal brake on wheel 4, time overrun
of message 24
- 04193 EBSCAN signal brake on wheel 5, time overrun
of message 11
- 04194 EBSCAN signal brake on wheel 5, time overrun
of message 12
- 04195 EBSCAN signal brake on wheel 5, time overrun
of message 13
- 04196 EBSCAN signal brake on wheel 5, time overrun
of message 14
- 04197 EBSCAN signal brake on wheel 5, time overrun
of message 21
- 04198 EBSCAN signal brake on wheel 5, time overrun
of message 22

SPN.....	Control unit/System.....	Fault message
04199.....	EBS.....	CAN signal brake on wheel 5, time overrun of message 23
04200.....	EBS.....	CAN signal brake on wheel 5, time overrun of message 24
04200.....	ZBR2.....	Entry light and interior lighting, right
04201.....	EBS.....	CAN signal brake on wheel 6, time overrun of message 11
04201.....	ZBR2.....	Entry light and interior lighting, left
04202.....	EBS.....	CAN signal brake on wheel 6, time overrun of message 12
04202.....	ZBRO.....	Interior lighting check
04203.....	EBS.....	CAN signal brake on wheel 6, time overrun of message 13
04203.....	ZBRO.....	Interior lighting 1
04204.....	EBS.....	CAN signal brake on wheel 6, time overrun of message 14
04204.....	ZBRO.....	Interior lighting 1 continuous
04205.....	EBS.....	CAN signal brake on wheel 6, time overrun of message 21
04205.....	ZBRO.....	Interior lighting 1 economy
04206.....	EBS.....	CAN signal brake on wheel 6, time overrun of message 22
04206.....	ZBRO.....	Interior lighting 1 full
04207.....	EBS.....	CAN signal brake on wheel 6, time overrun of message 23
04207.....	ZBRO.....	Interior lighting 2
04208.....	EBS.....	CAN signal brake on wheel 6, time overrun of message 24
04208.....	ZBRO.....	Interior lighting 2 continuous
04209.....	EBS.....	Speed sensor input on pressure regulating module wheel 1, faulty electronic circuit
04209.....	ZBRO.....	Interior lighting 2 economy
04210.....	EBS.....	Speed sensor input on pressure regulating module wheel 2, faulty electronic circuit
04210.....	ZBRO.....	Interior lighting 2 full
04211.....	EBS.....	Speed sensor input on pressure regulating module wheel 3, faulty electronic circuit

SPN..... Control unit/System..... Fault message

04211..... ZBRO..... Interior lighting 2a continuous
04212..... EBS..... Speed sensor input on pressure regulating module
wheel 4, faulty electronic circuit
04212..... ZBRO..... Interior lighting 2a full
04213..... EBS..... Speed sensor input on pressure regulating module
wheel 5, faulty electronic circuit
04213..... ZBRO..... Interior lighting 2b continuous
04214..... EBS..... Speed sensor input on pressure regulating module
wheel 6, faulty electronic circuit
04214..... ZBRO..... Interior lighting 2b full
04215..... EBS..... Speed sensor input on pressure regulating module
wheel 7, faulty electronic circuit
04215..... ZBRO..... Interior lighting 3
04216..... EBS..... Speed sensor input on pressure regulating module
wheel 8, faulty electronic circuit
04216..... ZBRO..... Interior lighting 3
04217..... EBS..... Speed sensor input on pressure regulating module
wheel 1, faulty electronic circuit
04217..... ZBRO..... Interior lighting 3 check
04218..... EBS..... Speed sensor wheel 2, air gap too great
04218..... ZBRO..... Interior lighting 3 economy
04219..... EBS..... Speed sensor wheel 3, air gap too great
04219..... ZBRO..... Interior lighting 3 full
04220..... EBS..... Speed sensor wheel 4, air gap too great
04220..... ZBRO..... Night lighting
04221..... EBS..... Speed sensor wheel 5, air gap too great
04221..... ZBRO..... Night lighting
04222..... EBS..... Speed sensor wheel 6, air gap too great
04222..... ZBRO..... Night lighting check
04223..... EBS..... Speed sensor wheel 7, air gap too great
04223..... ZBRO..... Interior lighting 2c full
04224..... EBS..... Speed sensor wheel 8, air gap too great
04224..... ZBRO..... Interior lighting 1a full
04225..... EBS..... Speed sensor wheel 1, impulse wheel defective
04225..... ZBRO..... Interior lighting 1b full
04226..... EBS..... Speed sensor wheel 2, impulse wheel defective
04226..... ZBRO..... Interior lighting 1c full

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SPN..... Control unit/System..... Fault message

04227	EBS	Speed sensor wheel 3, impulse wheel defective
04227	ZBRO	Interior lighting reduction
04228	EBS	Speed sensor wheel 4, impulse wheel defective
04228	ZBRO	Interior lighting reduct. check
04229	EBS	Speed sensor wheel 5, impulse wheel defective
04229	ZBRO	Footwell lighting
04230	EBS	Speed sensor wheel 6, impulse wheel defective
04230	ZBRO	Footwell lighting
04231	EBS	Speed sensor wheel 7, impulse wheel defective
04231	ZBRO	Aisle lighting
04232	EBS	Speed sensor wheel 8, impulse wheel defective
04232	ZBRO	Reading lights on
04233	EBS	Speed sensor wheel 1, tyre diameter too great
04233	ZBRO	Reading lights enable
04234	EBS	Speed sensor wheel 2, tyre diameter too great
04234	ZBRO	Interior lighting 4
04235	EBS	Speed sensor wheel 3, tyre diameter too great
04236	EBS	Speed sensor wheel 4, tyre diameter too great
04237	EBS	Speed sensor wheel 5, tyre diameter too great
04238	EBS	Speed sensor wheel 6, tyre diameter too great
04239	EBS	Speed sensor wheel 7, tyre diameter too great
04240	EBS	Speed sensor wheel 8, tyre diameter too great
04241	EBS	Pressure module intake valve on wheel 1
04242	EBS	Pressure module intake valve on wheel 1, valve cannot be switched and is opened
04243	EBS	Pressure module intake valve on wheel 1, valve cannot be switched and is closed
04244	EBS	Pressure module intake valve on wheel 2
04245	EBS	Pressure module intake valve on wheel 2, valve cannot be switched and is opened
04246	EBS	Pressure module intake valve on wheel 2, valve cannot be switched and is closed
04247	EBS	Pressure module intake valve on wheel 3
04248	EBS	Pressure module intake valve on wheel 3, valve cannot be switched and is opened
04249	EBS	Pressure module intake valve on wheel 3, valve cannot be switched and is closed

SPN..... Control unit/System..... Fault message

04250	EBS	Pressure module intake valve on wheel 4
04251	EBS	Pressure module intake valve on wheel 4, valve cannot be switched and is opened
04252	EBS	Pressure module intake valve on wheel 4, valve cannot be switched and is closed
04253	EBS	Pressure module intake valve on wheel 5
04254	EBS	Pressure module intake valve on wheel 5, valve cannot be switched and is opened
04255	EBS	Pressure module intake valve on wheel 5, valve cannot be switched and is closed
04256	EBS	Pressure module intake valve on wheel 6
04257	EBS	Pressure module intake valve on wheel 6, valve cannot be switched and is opened
04258	EBS	Pressure module intake valve on wheel 6, valve cannot be switched and is closed
04259	EBS	Pressure module exhaust valve on wheel 1
04260	EBS	Pressure module exhaust valve on wheel 1, valve cannot be switched and is opened
04261	EBS	Pressure module exhaust valve on wheel 1, valve cannot be switched and is closed
04262	EBS	Pressure module exhaust valve on wheel 2
04263	EBS	Pressure module exhaust valve on wheel 2, valve cannot be switched and is opened
04264	EBS	Pressure module exhaust valve on wheel 2, valve cannot be switched and is closed
04265	EBS	Pressure module exhaust valve on wheel 3
04266	EBS	Pressure module exhaust valve on wheel 3, valve cannot be switched and is opened
04267	EBS	Pressure module exhaust valve on wheel 3, valve cannot be switched and is closed
04268	EBS	Pressure module exhaust valve on wheel 4
04269	EBS	Pressure module exhaust valve on wheel 4, valve cannot be switched and is opened
04270	EBS	Pressure module exhaust valve on wheel 4, valve cannot be switched and is closed
04271	EBS	Pressure module exhaust valve on wheel 5

SPN..... Control unit/System..... Fault message

- 04272..... EBS..... Pressure module exhaust valve on wheel 5,
valve cannot be switched and is opened
- 04273..... EBS..... Pressure module exhaust valve on wheel 5,
valve cannot be switched and is closed
- 04274..... EBS..... Pressure module exhaust valve on wheel 6
- 04275..... EBS..... Pressure module exhaust valve on wheel 6,
valve cannot be switched and is opened
- 04276..... EBS..... Pressure module backup valve on wheel 1
- 04277..... EBS..... Pressure module backup valve on wheel 1,
valve cannot be switched and is closed
- 04278..... EBS..... Pressure module backup valve on wheel 2
- 04279..... EBS..... Pressure module backup valve on wheel 2,
valve cannot be switched and is closed
- 04280..... EBS..... Pressure module backup valve on wheel 3
- 04281..... EBS..... Pressure module backup valve on wheel 3,
valve cannot be switched and is closed
- 04282..... EBS..... Pressure module backup valve on wheel 4
- 04283..... EBS..... Pressure module backup valve on wheel 4,
valve cannot be switched and is closed
- 04284..... EBS..... Pressure module backup valve on wheel 5
- 04285..... EBS..... Pressure module backup valve on wheel 5,
valve cannot be switched and is closed
- 04286..... EBS..... Pressure module backup valve on wheel 6
- 04287..... EBS..... Pressure module backup valve on wheel 6,
valve cannot be switched and is closed
- 04288..... EBS..... Pressure module pressure sensor on wheel 1,
offset learned by teach-in
- 04289..... EBS..... Pressure module pressure sensor on wheel 1, signal
- 04291..... EBS..... Pressure module pressure sensor on wheel 2,
offset learned by teach-in
- 04292..... EBS..... Pressure module pressure sensor on wheel 2, signal
- 04294..... EBS..... Pressure module pressure sensor on wheel 3,
offset learned by teach-in
- 04295..... EBS..... Pressure module pressure sensor on wheel 3, signal
- 04297..... EBS..... Pressure module pressure sensor on wheel 4,
offset learned by teach-in
- 04298..... EBS..... Pressure module pressure sensor on wheel 4, signal

SPN..... Control unit/System..... Fault message

04300..... EBS..... Pressure module pressure sensor on wheel 5,
offset learned by teach-in is too high
04300..... ZBR2..... Fill level, cleaning water
04301..... EBS..... Pressure module pressure sensor on wheel 5, signal
04301..... ZBR2..... Washer pump
04301..... ZBRO..... Windscreen washers
04302..... EBS..... Pressure module pressure sensor on wheel 5,
offset learned by teach-in is too low
04302..... ZBR2..... Intermittent wipe switch
04302..... ZBRO..... Windscreen wiper interval
04303..... EBS..... Pressure module pressure sensor on wheel 6,
offset learned by teach-in
04303..... ZBR2..... CLK interval switch
04304..... EBS..... Pressure module pressure sensor on wheel 6, signal
04304..... ZBR2..... Windscreen washer button
04304..... ZBRO..... Windscreen washers
04305..... ZBR2..... Rain sensor signal
04306..... EBS..... Wheel 1: Brake performance monitoring
04306..... ZBR2..... Fill level, headlight cleaning system
04307..... EBS..... Wheel 2: Brake performance monitoring
04307..... ZBR2..... Pump, headlight cleaning system
04308..... EBS..... Wheel 3: Brake performance monitoring
04308..... ZBR2..... Wiper motor revolutions
04309..... EBS..... Wheel 4: Brake performance monitoring
04309..... ZBR2..... Wiper motor speed
04310..... EBS..... Wheel 5: Brake performance monitoring
04310..... ZBR2..... Wiper relay (spare relay, parking light)
04310..... ZBRO..... Windscreen wiper relay
04311..... EBS..... Wheel 6: Brake performance monitoring
04311..... ZBR2..... Wiper limit switch
04311..... ZBRO..... Windscreen wiper zero position
04312..... EBS..... Wheel 1 in conjunction with ABS logic:
ABS is demanding insufficient brake pressure over
an implausibly long time
04312..... ZBR2..... Wiper switch position

SPN..... Control unit/System..... Fault message

04313..... EBS..... Wheel 2 in conjunction with ABS logic:
ABS is demanding insufficient brake pressure over
an implausibly long time

04313..... ZBRO..... Windscreen wiper stage 1

04314..... EBS..... Wheel 3 in conjunction with ABS logic:
ABS is demanding insufficient brake pressure over
an implausibly long time

04314..... ZBRO..... Windscreen wiper stage 2

04315..... EBS..... Wheel 4 in conjunction with ABS logic:
ABS is demanding insufficient brake pressure over
an implausibly long time

04316..... EBS..... Wheel 5 in conjunction with ABS logic:
ABS is demanding insufficient brake pressure over
an implausibly long time

04317..... EBS..... Wheel 6 in conjunction with ABS logic:
ABS is demanding insufficient brake pressure over
an implausibly long time

04318..... EBS..... Wheel 1 in conjunction with ABS logic:
Wheel speed error

04319..... EBS..... Wheel 2 in conjunction with ABS logic:
Wheel speed error

04320..... EBS..... Wheel 3 in conjunction with ABS logic:
Wheel speed error

04321..... EBS..... Wheel 4 in conjunction with ABS logic:
Wheel speed error

04322..... EBS..... Wheel 5 in conjunction with ABS logic:
Wheel speed error

04323..... EBS..... Wheel 6 in conjunction with ABS logic:
Wheel speed error

04324..... EBS..... Wheel 1 in conjunction with ABS logic:
Change between active and inactive ABS
intervention too fast

04325..... EBS..... Wheel 2 in conjunction with ABS logic:
Change between active and inactive ABS
intervention too fast

SPN.....	Control unit/System.....	Fault message
04326.....	EBS.....	Wheel 3 in conjunction with ABS logic: Change between active and inactive ABS intervention too fast
04327.....	EBS.....	Wheel 4 in conjunction with ABS logic: Change between active and inactive ABS intervention too fast
04328.....	EBS.....	Wheel 5 in conjunction with ABS logic: Change between active and inactive ABS intervention too fast
04329.....	EBS.....	Wheel 6 in conjunction with ABS logic: Change between active and inactive ABS intervention too fast
04330.....	EBS.....	External sequential fault: External vehicle speed signal implausible
04331.....	EBS.....	External sequential fault: Time overrun or fault condition in communication with gearbox control unit on CAN (SA=0x03)
04332.....	EBS.....	External sequential fault: Time overrun or fault condition in communication with EAC control unit d on CAN (SA=0x30)
04333.....	EBS.....	External sequential fault: Time overrun or fault condition in communication with ECAS control unit on CAN (SA=0x2F)
04334.....	EBS.....	External sequential fault: Time overrun or fault condition in communication with central on-board computer on CAN (SA=0x21)
04335.....	EBS.....	External sequential fault: Time overrun in communication with trailer control unit 1
04336.....	EBS.....	External sequential fault: Time overrun in communication with trailer control unit 2
04337.....	EBS.....	Trailer control module pressure control: Implausible intake valve actuation
04338.....	EBS.....	Trailer control module pressure control: Residual pressure detected
04339.....	EBS.....	Trailer control module pressure control: Implausibly high pressure at the end of braking and parking brake signal defective

SPN..... Control unit/System..... Fault message

04340 EBS Trailer control module pressure control:
Implausibly high pressure at the end of braking and
long actuation of the parking brake switch

04341 EBS Trailer control module pressure control:
Implausibly high pressure at the end of braking and
long actuation of the anti-jackknife brake valve

04342 EBS Trailer control module pressure control:
Implausibly high pressure at the end of braking and
parking brake switch and trailer brake switch not actuated

04343 EBS Trailer control module pressure control:
Implausibly high pressure at the end of braking and
parking brake signal defective

04344 EBS Trailer control module pressure control:
Implausibly high pressure at the end of braking and long
actuation of the parking brake switch

04345 EBS Trailer control module pressure control:
Implausibly high pressure at the end of braking and long
actuation of the anti-jackknife brake switch

04346 EBS Trailer control module pressure control:
Implausibly high pressure at the end of braking and parking
brake switch and trailer brake switch not actuated

04347 EBS Trailer control module pressure control:
Implausibly high pressure in the exhaust valve
actuation and parking brake signal defective

04348 EBS Trailer control module pressure control:
Implausibly high pressure in the exhaust valve
actuation and long actuation of the parking brake switch

04349 EBS Trailer control module pressure control:
Implausibly high pressure in the exhaust valve
actuation and long actuation of the
valve-controlled trailer brake switch

04350 EBS Trailer control module pressure control:
Implausibly high pressure in the exhaust valve
actuation and parking brake switch and trailer
brake switch not actuated

04351 EBS J1939 (driveline CAN):
Time overrun in EBC1-RX message

SPN..... Control unit/System..... Fault message

- 04352..... EBS.....Pressure module pressure control on wheel 1:
Pressure comparison plausibility error:
Request is greater than the measured pressure
- 04353..... EBS.....Pressure module pressure control on wheel 2:
Pressure comparison plausibility error:
Request is greater than the measured pressure
- 04354..... EBS.....Pressure module pressure control on wheel 3:
Pressure comparison plausibility error:
Request is greater than the measured pressure
- 04355..... EBS.....Pressure module pressure control on wheel 4:
Pressure comparison plausibility error:
Request is greater than the measured pressure
- 04356..... EBS.....Pressure module pressure control on wheel 5:
Pressure comparison plausibility error:
Request is greater than the measured pressure
- 04357..... EBS.....Pressure module pressure control on wheel 6:
Pressure comparison plausibility error:
Request is greater than the measured pressure
- 04358..... EBS.....Pressure module pressure control on wheel 1:
Pressure comparison plausibility error:
Measured pressure is greater than request
- 04359..... EBS.....Pressure module pressure control on wheel 2:
Pressure comparison plausibility error:
Measured pressure is greater than request
- 04360..... EBS.....Pressure module pressure control on wheel 3:
Pressure comparison plausibility error:
Measured pressure is greater than request
- 04361..... EBS.....Pressure module pressure control on wheel 4:
Pressure comparison plausibility error:
Measured pressure is greater than request
- 04362..... EBS.....Pressure module pressure control on wheel 5:
Pressure comparison plausibility error:
Measured pressure is greater than request
- 04363..... EBS.....Pressure module pressure control on wheel 6:
Pressure comparison plausibility error:
Measured pressure is greater than request

SPN.....	Control unit/System.....	Fault message
04364.....	EBS.Pressure regulating module pressure control on wheel 1:	Full braking test
04365.....	EBS.Pressure regulating module pressure control on wheel 2:	Full braking test
04366.....	EBS.Pressure regulating module pressure control on wheel 3:	Full braking test
04367.....	EBS.Pressure regulating module pressure control on wheel 4:	Full braking test
04368.....	EBS.Pressure regulating module pressure control on wheel 5:	Full braking test
04369.....	EBS.Pressure regulating module pressure control on wheel 6:	Full braking test
04370.....	EBS.Pressure regulating module pressure control on wheel 1: Nominal/actual comparison between pressure regulating module pressure and supply pressure	
04371.....	EBS.Pressure regulating module pressure control on wheel 2: Nominal/actual comparison between pressure regulating module pressure and supply pressure	
04372.....	EBS.Pressure regulating module pressure control on wheel 3: Nominal/actual comparison between pressure regulating module pressure and supply pressure	
04373.....	EBS.Pressure regulating module pressure control on wheel 4: Nominal/actual comparison between pressure regulating module pressure and supply pressure	
04374.....	EBS.Pressure regulating module pressure control on wheel 5: Nominal/actual comparison between pressure regulating module pressure and supply pressure	
04375.....	EBS.Pressure regulating module pressure control on wheel 6: Nominal/actual comparison between pressure regulating module pressure and supply pressure	
04376.....	EBS.Pressure regulating module pressure control on wheel 1:	Temporary backup test
04377.....	EBS.Pressure regulating module pressure control on wheel 2:	Temporary backup test
04378.....	EBS.Pressure regulating module pressure control on wheel 3:	Temporary backup test

SPN..... Control unit/System..... Fault message

- 04379..... EBS.Pressure regulating module pressure control on wheel 4:
Temporary backup test
- 04380..... EBS.Pressure regulating module pressure control on wheel 5:
Temporary backup test
- 04381..... EBS.Pressure regulating module pressure control on wheel 6:
Temporary backup test
- 04382..... EBS.Pressure regulating module pressure control on wheel 1:
Temporary brake test
- 04383..... EBS.Pressure regulating module pressure control on wheel 2:
Temporary brake test
- 04384..... EBS.Pressure regulating module pressure control on wheel 3:
Temporary brake test
- 04385..... EBS.Pressure regulating module pressure control on wheel 4:
Temporary brake test
- 04386..... EBS.Pressure regulating module pressure control on wheel 5:
Temporary brake test
- 04387..... EBS.Pressure regulating module pressure control on wheel 6:
Temporary brake test
- 04388..... EBS.....Pressure module pressure control on wheel 1:
Implausible pressure differential right/left
- 04389..... EBS.....Pressure module pressure control on wheel 2:
Implausible pressure differential right/left
- 04390..... EBS.....Pressure module pressure control on wheel 3:
Implausible pressure differential right/left
- 04391..... EBS.....Pressure module pressure control on wheel 4:
Implausible pressure differential right/left
- 04392..... EBS.....Pressure module pressure control on wheel 5:
Implausible pressure differential right/left
- 04393..... EBS.....Pressure module pressure control on wheel 6:
Implausible pressure differential right/left
- 04394..... EBS.....Pressure module pressure control on wheel 1:
Implausible pressure when no braked applied
- 04395..... EBS.....Pressure module pressure control on wheel 2:
Implausible pressure when no braked applied
- 04396..... EBS.....Pressure module pressure control on wheel 3:
Implausible pressure when no braked applied

SPN..... Control unit/System..... Fault message

04397	EBS	Pressure module pressure control on wheel 4: Implausible pressure when no braked applied
04398	EBS	Pressure module pressure control on wheel 5: Implausible pressure when no braked applied
04399	EBS	Pressure module pressure control on wheel 6: Implausible pressure when no braked applied
04400	EBS	Pressure module pressure control on wheel 1: Implausible pressure at end of braking
04400	ZBR2	Grease quantity, central lubrication system
04401	EBS	Pressure module pressure control on wheel 2: Implausible pressure at end of braking
04401	ZBR2	Motor, central lubrication system
04402	EBS	Pressure module pressure control on wheel 3: Implausible pressure at end of braking
04402	ZBR2	Pump strokes, central lubrication system
04403	EBS	Pressure module pressure control on wheel 4: Implausible pressure at end of braking
04403	ZBR2	Interim lubrication button
04404	EBS	Pressure module pressure control on wheel 5: Implausible pressure at end of braking
04404	ZBRO	Central lubrication system
04405	EBS	Pressure module pressure control on wheel 6: Implausible pressure at end of braking
04405	ZBRO	Central lubrication system
04406	EBS	Pressure module pressure control on wheel 1: Implausible intake valve actuation
04407	EBS	Pressure module pressure control on wheel 2: Implausible intake valve actuation
04408	EBS	Pressure module pressure control on wheel 3: Implausible intake valve actuation
04409	EBS	Pressure module pressure control on wheel 4: Implausible intake valve actuation
04410	EBS	Pressure module pressure control on wheel 5: Implausible intake valve actuation
04411	EBS	Pressure module pressure control on wheel 6: Implausible intake valve actuation

SPN..... Control unit/System..... Fault message

- 04412..... EBS.....Pressure module pressure control on wheel 1:
Implausible exhaust valve actuation
- 04413..... EBS.....Pressure module pressure control on wheel 2:
Implausible exhaust valve actuation
- 04414..... EBS.....Pressure module pressure control on wheel 3:
Implausible exhaust valve actuation
- 04415..... EBS.....Pressure module pressure control on wheel 4:
Implausible exhaust valve actuation
- 04416..... EBS.....Pressure module pressure control on wheel 5:
Implausible exhaust valve actuation
- 04417..... EBS.....Pressure module pressure control on wheel 6:
Implausible exhaust valve actuation
- 04418..... EBS.....Pressure module pressure control on wheel 1:
Residual pressure detected
- 04419..... EBS.....Pressure module pressure control on wheel 2:
Residual pressure detected
- 04420..... EBS.....Pressure module pressure control on wheel 3:
Residual pressure detected
- 04421..... EBS.....Pressure module pressure control on wheel 4:
Residual pressure detected
- 04422..... EBS.....Pressure module pressure control on wheel 5:
Residual pressure detected
- 04423..... EBS.....Pressure module pressure control on wheel 6:
Residual pressure detected
- 04424..... EBS.....Yaw angle sensor: Standstill calibration failed
- 04425..... EBS.....Yaw angle sensor: Long-time calibration failed
- 04426..... EBS.....Yaw angle sensor: Fine tuning failed
- 04427..... EBS.....Yaw angle sensor: Implausible signal
(outside the validity range of the physical model)
- 04428..... EBS.....Yaw angle sensor: Signal gradient too high
- 04429..... EBS.....Yaw angle sensor: Implausible sensor signal
in relation to reference yaw angle
- 04430..... EBS.....Yaw angle sensor: Static self-check failed
- 04431..... EBS.....Yaw angle sensor: Dynamic self-check failed
- 04432..... ACC.....Cruise control switch (sleeve) operated
- 04432..... EBS.....Transverse acceleration sensor:
Standstill calibration failed

SPN..... Control unit/System..... Fault message

04433..... ACC Cruise control switch 'Off' operated

04433..... EBS..... Central control unit B-controller: ABS reference
pressure implausible

04434..... ACC Driving speed limiter mode / driving speed limiter
switch is on

04434..... EBS..... ABS logic: Implausible activation time

04435..... ACC Parking brake not released/parking brake applied

04435..... EBS..... Pressure module control unit on wheel 1,
inconsistent driver software version between
ECU and boot loader

04436..... ACC ABS defective/invalid

04436..... EBS..... Pressure module control unit on wheel 1,
checksum error in external flash memory

04437..... ACC EBS defective/invalid

04437..... EBS..... Pressure module control unit on wheel 1,
outdated driver software

04438..... ACC Pedal brake pressed

04438..... EBS..... Pressure module control unit on wheel 2,
inconsistent driver software version between
ECU and boot loader

04439..... ACC Sustained-action brake lever operated

04439..... EBS..... Pressure module control unit on wheel 2,
checksum error in external flash memory

04440..... ACC Sustained-action brakes 'Off'

04440..... EBS..... Pressure module control unit on wheel 2,
outdated driver software

04441..... ACC ASR intervention

04441..... EBS..... Pressure module control unit on wheel 3,
inconsistent driver software version between
ECU and boot loader

04442..... ACC ABS intervention

04442..... EBS..... Pressure module control unit on wheel 3,
checksum error in external flash memory

04443..... ACC ESP intervention

04443..... EBS..... Pressure module control unit on wheel 3,
outdated driver software

SPN.....	Control unit/System.....	Fault message
04444.....	ACC	ACC has activated EBS for too long / brake temperature
04444.....	EBS.....	Pressure module control unit on wheel 4, inconsistent driver software version between ECU and boot loader
04445.....	ACC	Engine revs too high
04445.....	EBS.....	Pressure module control unit on wheel 4, checksum error in external flash memory
04446.....	ACC	Delay too long
04446.....	EBS.....	Pressure module control unit on wheel 4, outdated driver software
04447.....	ACC	No/invalid road speed
04447.....	EBS.....	Pressure module control unit on wheel 5, inconsistent driver software version between ECU and boot loader
04448.....	ACC	No EBS intervention possible
04448.....	EBS.....	Pressure module control unit on wheel 5, checksum error in external flash memory
04449.....	ACC	EBS status check
04449.....	EBS.....	Pressure module control unit on wheel 5, outdated driver software
04450.....	ACC	ESP defective
04450.....	EBS.....	Pressure module control unit on wheel 6, inconsistent driver software version between ECU and boot loader
04451.....	ACC	No brake pedal / invalid CAN message EBC1.Brake pedal
04451.....	EBS.....	Pressure module control unit on wheel 6, checksum error in external flash memory
04452.....	ACC	Sustained-action brake lever defective / invalid CAN message ERC1X.Sustained-action brake lever
04452.....	EBS.....	Pressure module control unit on wheel 6, outdated driver software
04453.....	ACC	No engine / invalid CAN message EEC1.Torque

SPN.....	Control unit/System.....	Fault message
04453.....	EBS.....	Central control unit - B-controller: Configured service brake module characteristic has exceeded range
04454.....	ACC.....	Engine intervention not by ACC, driver, gearbox, HGB, FGB, EDR or brake
04454.....	EBS.....	Central control unit - B-controller: Implausibly large difference between the deceleration requirements calculated by both controllers
04455.....	ACC.....	No engine revs / invalid CAN message EEC1.Engine revs
04455.....	EBS.....	Central control unit - B-controller critical: Variable range overrun or invalid function call
04456.....	ACC.....	No accelerator pedal / invalid CAN message EEC2.Accelerator pedal
04456.....	EBS.....	Central control unit - B-controller critical: Checksum error in boot loader software
04457.....	ACC.....	No accelerator pedal / invalid CAN message EEC2.Idling speed switch
04457.....	EBS.....	Central control unit B-controller critical: Checksum error in external flash memory
04458.....	ACC.....	No RX / Invalid CAN message ERC1_RX. Torques (engine brake)
04458.....	EBS	Central control unit B-controller critical: RAM check failed
04459.....	ACC.....	No RD / Invalid CAN message ERC1_RD. Torques (secondary retarder)
04459.....	EBS.....	Central control unit B-controller critical: Arithmetic comparison test in microcontroller failed
04460.....	ACC.....	No RE / Invalid CAN message ERC1_RE. Torques (primary retarder)
04460.....	EBS.....	Central control unit B-controller critical: Stack memory overrun
04461.....	ACC.....	Retarder intervention fault
04461.....	EBS.....	Central control unit B-controller critical: SWI instruction or watchdog or clock pulse generator or PLL defect or external interruption was activated
04462.....	ACC.....	No earth

SPN..... Control unit/System..... Fault message

04462..... EBS..... Central control unit B-controller critical:
Internal microcontroller fault detected

04463..... ACC Display defective

04463..... EBS..... Central control unit B-controller critical:
Internal control unit fault

04464..... ACC No cruise control switch /
invalid CAN message CCVS.Cruise control switch

04464..... EBS..... Central control unit B-controller critical:
Internal control unit fault

04465..... ACC Cruise control active in ACC mode /
invalid CAN message CCVS.Enable == cruise control

04465..... EBS..... Central control unit B-controller critical:
Internal control unit fault

04466..... ACC No driving speed limiter switch /
invalid CAN message CCVS.Driving speed limiter switch

04466..... EBS..... Central control unit B-controller critical:
Unused interrupt routine activated

04467..... ACC No OFF sustained-action brakes /
invalid CAN message CCVS.IntelBremsKopl

04467..... EBS..... Pressure module control unit on wheel 7:
Mismatch between control unit types
of operating software and boot loader

04468..... ACC No cruise control lever /
invalid CAN message CCVS.Off switch or CCVS.Lever

04468..... EBS..... Supply voltage brake pad wear sensor wheel 1:
Short circuit to ground

04469..... ACC No distance selector switch /
invalid CAN message AUX1_ZBR.Switch

04469..... EBS..... Supply voltage brake pad wear sensor wheel 2:
Short circuit to ground

04470..... ACC Driveline fault / invalid CAN message
ETC1.ShiftInProcess or ETC1.DrivelineEngaged

04470..... EBS..... Supply voltage brake pad wear sensor wheel 3:
Short circuit to ground

04471..... ACC Clutch fault / invalid CAN message CCVS.Clutch

04471..... EBS..... Supply voltage brake pad wear sensor wheel 4:
Short circuit to ground

SPN..... Control unit/System..... Fault message

04472..... ACC Clutch travel invalid

04472..... EBS..... Supply voltage brake pad wear sensor wheel 5:
Short circuit to ground

04473..... ACC Speed irregularities between EEC1.Engine revs
and TCO1.Revs

04473..... EBS..... Supply voltage brake pad wear sensor wheel 6:
Short circuit to ground

04474..... ACCValid ETC2.Ratio markedly different from
valid speed ratio

04474..... EBS..... Supply voltage brake pad wear sensor wheel 7:
Short circuit to ground

04475..... ACC No TCO speed / invalid CAN message TCO.Speed

04475..... EBS..... Supply voltage brake pad wear sensor wheel 8:
Short circuit to ground

04476..... ACC No wheel speed / invalid CAN message EBC2.Speed

04476..... EBS..... Supply voltage brake pad wear sensor wheel 1:
was deactivated

04477..... ACC Engine revs too high

04477..... EBS..... Supply voltage brake pad wear sensor wheel 2:
was deactivated

04478..... ACC No gear or clutch disengaged /
open driveline for about 10 s

04478..... EBS..... Supply voltage brake pad wear sensor wheel 3:
was deactivated

04479..... ACC Speed too slow

04479..... EBS..... Supply voltage brake pad wear sensor wheel 4:
was deactivated

04480..... ACC Speed too fast

04480..... EBS..... Supply voltage brake pad wear sensor wheel 5:
was deactivated

04481..... ACC Bend too tight / valid bending too great

04481..... EBS..... Supply voltage brake pad wear sensor wheel 6:
was deactivated

04482..... ACCNo / invalid yaw rate

04482..... EBS..... Supply voltage brake pad wear sensor wheel 7:
was deactivated

04483..... ACC No / invalid transverse acceleration

SPN.....	Control unit/System.....	Fault message
04483.....	EBS.....	Supply voltage brake pad wear sensor wheel 8: was deactivated
04484.....	ACC	Radar still in initialisation mode (after ACC initialisation mode)
04484.....	EBS.....	Trailer control module pressure control: Control piston (42) is defective
04485.....	ACC	Bending is detected as invalid in CAN message
04485.....	EBS.....	Wheel sensor: Speed comparison
04486.....	EBS.....	Differential lock valve (differential lock switch): Installed component but not configured
04487.....	EBS.....	ESP sensor voltage supply: Faulty electronic circuit in EBS control unit
04488.....	EBS.....	Central control unit B-controller: Cannot be switched OFF
04489.....	EBS.....	Central control unit A-controller: internal calculation error
04490.....	EBS.....	J1939 (driveline CAN): Time overrun or fault condition in communication with ACC control unit on CAN (SA=0x2A)
04491.....	EBS.....	Central control unit A-controller: Mismatch between control unit types of operating software and boot loader
04492.....	EBS.....	Pressure module supply cable to wheel 1: Current magnitude too high
04493.....	EBS.....	Pressure module supply cable to wheel 2: Current magnitude too high
04494.....	EBS.....	Brake pad wear sensor wheel 1: Monitoring of brake pad wear signal (decreasing) between the axles of the vehicle
04495.....	EBS.....	Pressure module supply cable to wheel 3: Current magnitude too high
04496.....	EBS.....	Brake pad wear sensor wheel 2: Monitoring of brake pad wear signal (decreasing) between the axles of the vehicle
04497.....	EBS.....	Pressure module supply cable to wheel 4: Current magnitude too high

SPN..... Control unit/System..... Fault message

04498..... EBS..... Brake pad wear sensor wheel 3:
Monitoring of brake pad wear signal (decreasing)
between the axles of the vehicle

04499..... ACC..... ACC control unit is still in initialisation phase

04499..... EBS..... Pressure module supply cable to wheel 5:
Current magnitude too high

04500..... ACC..... Internal system error, Trap NMI

04500..... EBS..... Brake pad wear sensor wheel 4:
Monitoring of brake pad wear signal (decreasing)
between the axles of the vehicle

04500..... ZBR2..... Steering/trailing axle/anti-jackknife protection

04500..... ZBRO..... Steering oil level too low

04501..... ACC..... Internal system error, Stack overflow

04501..... EBS..... Pressure module supply cable to wheel 6:
Current magnitude too high

04502..... ACC..... Internal system error, Stack underflow

04502..... DIW5..... Turbine speed acquisition

04502..... EBS..... Brake pad wear sensor wheel 5:
Monitoring of brake pad wear signal (decreasing)
between the axles of the vehicle

04502..... ZBR2..... Power steering oil level circuit 2

04503..... ACC..... Internal system error, Trap ILLBUS

04503..... EBS..... Brake pad wear sensor wheel 6:
Monitoring of brake pad wear signal (decreasing)
between the axles of the vehicle

04503..... ZBRO..... Anti-jackknife protection damping

04504..... ACC..... Internal system error, Trap ILLINA

04504..... EBS..... Brake pad wear sensor wheel 7:
Monitoring of brake pad wear signal (decreasing)
between the axles of the vehicle

04504..... ZBRO..... Anti-jackknife protection oil level too low

04505..... ACC..... Internal system error, Trap ILLOPA

04505..... EBS..... Brake pad wear sensor wheel 8:
Monitoring of brake pad wear signal (decreasing)
between the axles of the vehicle

04505..... ZBRO..... Anti-jackknife protection oil level too low

04506..... ACC..... Internal system error, Trap PRTFLT

SPN..... Control unit/System..... Fault message

04506..... EBS..... Supply voltage trailer control module valve:
Current magnitude too high

04506..... ZBRO..... Articulation damping button

04507..... ACC..... Internal system error, Trap UNDOPC

04507..... EBS..... Brake pad wear sensor wheel 1:
Monitoring of brake pad wear signal
(decreasing) within the axles

04507..... ZBRO..... Articulation angle > 48 degrees

04508..... ACC..... Internal system error, Trap PECC5

04508..... EBS..... Brake pad wear sensor wheel 2:
Monitoring of brake pad wear signal
(decreasing) within the axles

04508..... ZBRO..... Steering oil level too low

04509..... ACC..... Internal system error, Trap PECC6

04509..... DIW5..... Central solenoid valve handler

04509..... EBS..... Brake pad wear sensor wheel 3:
Monitoring of brake pad wear signal
(decreasing) within the axles

04509..... ZBRO..... Steering adjustment enable

04510..... ACC..... Internal system error, Trap PECC7

04510..... EBS..... Brake pad wear sensor wheel 4:
Monitoring of brake pad wear signal
(decreasing) within the axles

04510..... ZBRO..... Brake lamp to steered trailing axle

04511..... ACC..... Internal RAM defective / memory test on switch-on

04511..... EBS..... Brake pad wear sensor wheel 5:
Monitoring of brake pad wear signal
(decreasing) within the axles

04511..... ZBRO..... Bus-stop brake to steered trailing axle

04512..... ACC .. External RAM defective / address line test on switch-on

04512..... EBS..... Brake pad wear sensor wheel 6:
Monitoring of brake pad wear signal
(decreasing) within the axles

04512..... ZBRO..... Engine running to steered trailing axle

04513..... ACC..... External RAM defective / memory test on switch-on

SPN..... Control unit/System..... Fault message

04513..... EBS.....Brake pad wear sensor wheel 7:
Monitoring of brake pad wear signal (decreasing)
within the axles

04513..... ZBRO.....Steered trailing axle check yellow

04514..... ACCFlash defective / Flash checksum test on switch-on

04514..... EBS.....Brake pad wear sensor wheel 8:
Monitoring of brake pad wear signal
(decreasing) within the axles

04514..... ZBRO.....Steered trailing axle check red

04515..... ACCExternal watchdog / Test of function of the
external watchdog on switch-on

04515..... ZBRO..... Steered trailing axle red STOP

04516..... ACCProgram runtime exceeded

04516..... ZBRO.....Steered trailing axle check oil level

04517..... ACCHighLevelTask too long / runtime monitoring

04517..... EBS..... Central control unit - A-controller: Checksum error

04517..... ZBRO.....Steered trailing axle check oil level

04518..... ACC LowLevelTask too long / runtime monitoring

04518..... EBS..... Central control unit - A-controller:
Incompatible software components

04518..... ZBRO.....Anti-jackknife protection bypass damping

04519..... ACCApplication task too long

04519..... EBS..... Central control unit - A-controller:
Checksum error in the boot loader software

04519..... ZBRO.....Steered trailing axle check yellow

04520..... ACC Supply voltage (tl.15) too low

04520..... EBS..... Central control unit - B-controller:
Mismatch between control unit types of
operating software and boot loader

04520..... ZBRO.....Steered trailing axle check red

04521..... ACC TL30 voltage too low

04521..... EBS..... Central control unit - B-controller: Checksum error

04521..... ZBRO..... Steered trailing axle red STOP

04522..... ACC Relay defective, no TL30

04522..... EBS..... Central control unit EEPROM: implausible
values in configuration list

SPN..... Control unit/System..... Fault message

04522..... ZBRO..... Bus-stop brake automatic shut-off to steered trailing axle

04523..... ACC Relay defective, continuous TL30

04523..... EBS..... Central control unit EEPROM: Checksum error in configuration list

04523..... ZBR2..... Oil pressure steering K1

04524..... ACC Invalid data record / EEPROM checksum test on switch-on

04524..... EBS..... Transverse acceleration sensor: EOL calibration not completed

04524..... ZBR2..... Oil pressure steering K2

04525..... ACC Driveline Can error / if Bus-Off is reached and 0.5 s afterwards.

04525..... ZBRO..... Articulation angle > 17 degrees

04526..... ACC Driveline Can error / if overflow occurred in CAN controller

04526..... EBS..... ISO 11992 (trailer CAN): CAN-Low line defective

04526..... ZBRO..... Anti-jackknife protection engine idling

04527..... ACC Cannot send TSC1-EBS / last send message has not been sent yet

04527..... EBS..... ISO 11992 (trailer CAN): CAN-High line defective

04527..... ZBRO..... Anti-jackknife protection torque reduction

04528..... ACC Cannot send TSC1-FFR / last send message has not been sent yet

04528..... EBS..... Brakes CAN: No communication

04528..... ZBRO..... Articulation button when driving forwards

04529..... ACC EBC1 CAN message not received

04529..... EBS..... Sensor CAN: No communication

04529..... ZBRO..... Articulation button in R gear/art. ang. > 48 deg.

04530..... ACC ERC1_RX CAN message not received (engine brake)

04530..... EBS..... Time overrun or implausible status in communication with the ACC control unit (SA=0x2A)

04530..... ZBRO..... Articulation angle < 17 degrees

04531..... ACC ERC1_RE CAN message not received (primary retarder)

04531..... EBS..... Supply voltage for the EBS control unit: Range overrun or underrun (< 8.5 volts / > 36 volts)

04531..... ZBRO..... Steering column adjustment

SD 812a en

Page 148 of 203

SPN..... Control unit/System..... Fault message

04532..... ACC ERC1_RD CAN message not received
(secondary retarder)

04532..... EBS..... Yaw angle sensor: implausible values

04533..... ACC EEC1 CAN message not received

04533..... EBS..... Supply voltage for pressure control valves
and trailer control module:

Range underrun when starting

04534..... ACC CCVS CAN message not received

04534..... EBS..... Supply voltage for the modules:

Range underrun when starting

04535..... ACC Not all control lever operations / CCVS
(cruise control/vehicle speed) message cycle too fast

04535..... EBS..... Supply voltage for the CAN:

Range underrun when starting

04536..... ACC TCO1 CAN message not received

04536..... EBS..... Supply voltage for the ESP sensors: Range underrun

04537..... ACC EBC2 CAN message not received

04537..... EBS Supply voltage for the pressure module: Range underrun

04538..... ACC EEC2 CAN message not received

04538..... EBS..... Supply voltage for electronic pressure
control of the pressure modules: Range underrun

04539..... ACC ETC1 CAN message not received

04539..... EBS..... Supply voltage for the pressure regulating valves:
Range underrun

04540..... ACC ETC2 CAN message not received

04540..... EBS.. Supply voltage for the additional valve: Range underrun

04541..... ACC TC1 CAN message not received

04541..... EBS..... Supply voltage for the differential lock switch:
Range underrun

04542..... ACC VDC1 CAN message not received

04542..... EBS..... Supply voltage for the trailer control module valves:
Range underrun

04543..... ACC AUX1_ZBR CAN message not received

04543..... EBS..... Supply voltage for J1939 (driveline CAN):
Range underrun

04544..... ACC Cannot send ACC1 / last send message has
not been sent yet

SD 812a en

Page 149 of 203

SPN.....	Control unit/System.....	Fault message
04544.....	EBS.....	Supply voltage for ISO 11992 (trailer CAN): Range underrun
04545.....	ACC	Cannot send DM1 / last send message has not been sent yet
04545.....	EBS.....	Supply voltage for CAN brake: Range underrun
04546.....	ACC	Synchronisation error / TCO1 CAN messages not received in cycle
04546.....	EBS.....	ABS logic: Request red warning lamp
04547.....	ACC	WEIG CAN message not received
04547.....	EBS.....	System test: Invalid configuration
04548.....	ACC	ALB CAN message not received
04548.....	EBS.	System test: Reconfiguration of pressure control module
04549.....	ACC	Cannot send Trans-Conf request / Cannot request Trans Config CAN message
04549.....	EBS.....	System test: Dynamometer test rig mode active
04550.....	ACC	No configuration messages / Trans,Rx,Rd,Re,Ccvs Config not received
04550.....	EBS.	System test: Pressure regulating module voltage supply; short circuit to terminal 15
04551.....	ACC	Eng-Conf CAN messages not received
04551.....	EBS.....	External sequential fault: External vehicle weight signal implausible (CAN message: vehicle weight)
04552.....	ACC	Check EBC1 timeout / Timeout was only detected by additional monitoring
04552.....	EBS.....	External sequential fault: Trailer ABS is not fully functional
04553.....	ACC	Check brake / Excessive braking time only detected in additional monitoring
04553.....	EBS.....	External sequential fault: External input is implausible for ESP
04554.....	ACC	Check TCO1 tachograph timeout / Timeout was only detected by additional monitoring
04554.....	EBS.....	External sequential fault: External input is implausible for EBS functions
04555.....	ACC	Check delay / Excessively long delay was only detected in additional monitoring

SPN..... Control unit/System..... Fault message

04555..... EBS..... Pressure module control unit on wheel 1:
Axle load sensor electrical power supply
is not switched on

04556..... ACC..... Sensor CAN fault / if Bus-Off is reached

04556..... EBS..... Pressure module control unit on wheel 1:
Axle load sensor electrical power supply
short circuit to terminal 30

04557..... ACC..... SSTA not received

04557..... EBS..... Pressure module control unit on wheel 1:
incorrect / inconsistent data record
parameter in EEPROM

04558..... ACC..... STGT not received

04558..... EBS..... CAN signal brake on wheel 1: No communication

04559..... ACC..... STGT2 not received

04559..... EBS..... Pressure module control unit on wheel 2:
Axle load sensor electrical power supply
is not switched on

04560..... ACC..... Radar fault / internal radar fault

04560..... EBS..... Pressure module control unit on wheel 2:
Axle load sensor electrical power supply
short circuit to terminal 30

04561..... ACC..... Radar fault / incorrect or irreparably damaged
radar software (ERROR_SOFTWARE1)

04561..... EBS..... Pressure module control unit on wheel 2:
incorrect / inconsistent data record
parameter in EEPROM

04562..... ACC..... Radar fault / Incorrect or irreparably damaged
radar software (ERROR_SOFTWARE2)

04562..... EBS..... CAN signal brake on wheel 2: No communication

04563..... ACC..... Radar fault / supply voltage too high

04563..... EBS..... Pressure module control unit on wheel 3:
Axle load sensor electrical power supply
is not switched on

04564..... ACC..... Radar fault / supply voltage too low

04564..... EBS..... Pressure module control unit on wheel 3:
Axle load sensor electrical power supply
short circuit to terminal 30

SPN..... Control unit/System..... Fault message

04565..... ACCRadar fault / TRM too hot

04565..... EBS.....Pressure module control unit on wheel 3:
incorrect / inconsistent data record
parameter in EEPROM

04566..... ACC Radar fault / TRM too cold

04566..... EBS.....CAN signal brake on wheel 3: No communication

04567..... ACC Radar fault / PCM too hot

04567..... EBS.....Pressure module control unit on wheel 4:
Axle load sensor electrical power supply
is not switched on

04568..... ACC Radar fault / sensor CAN bus fault

04568..... EBS.....Pressure module control unit on wheel 4:
Axle load sensor electrical power supply
short circuit to terminal 30

04569..... ACCRadar fault / sensor CAN message fault

04569..... EBS.....Pressure module control unit on wheel 4:
incorrect / inconsistent data record
parameter in EEPROM

04570..... ACCRadar fault / no parameter settings

04570..... DIW5.....Solenoid valve WP

04570..... EBS.....CAN signal brake on wheel 4: No communication

04571..... ACCRadar fault / pairing fault

04571..... EBS.....Pressure module control unit on wheel 5:
Axle load sensor electrical power supply
is not switched on

04572..... ACCRadar fault / HF switched off

04572..... EBS.....Pressure module control unit on wheel 5:
Axle load sensor electrical power supply
short circuit to terminal 30

04573..... ACC Radar fault / sensor alignment fault

04573..... EBS.....Pressure module control unit on wheel 5:
incorrect / inconsistent data record
parameter in EEPROM

04574..... ACC Radar fault / background noise fault

04574..... EBS.....CAN signal brake on wheel 5: No communication

04575..... ACC Radar fault / aerial blocked

SPN..... Control unit/System..... Fault message

04575..... EBS..... Pressure module control unit on wheel 6:
Axle load sensor electrical power supply
is not switched on

04576..... ACC ESP gyro fault

04576..... EBS..... Pressure module control unit on wheel 6:
Axle load sensor electrical power supply
short circuit to terminal 30

04577..... ACC Cannot send YRSContr. / last gyro request not sent

04577..... EBS..... Pressure module control unit on wheel 6:
incorrect / inconsistent data record
parameter in EEPROM

04578..... ACC ... Cannot receive YRSData / gyro message not received

04578..... EBS..... CAN signal brake on wheel 6: No communication

04579..... ACC YRS fault / internal gyro fault or wrong ID

04579..... EBS..... Pressure module control unit on wheel 7:
Axle load sensor electrical power supply
is not switched on

04580..... ACC Cannot send SVEH

04580..... EBS..... Pressure module control unit on wheel 7:
Axle load sensor electrical power supply
short circuit to terminal 30

04581..... ACC . Yaw rates installation / Internal gyro installed incorrectly

04581..... EBS..... Pressure module control unit on wheel 7:
incorrect / inconsistent data record
parameter in EEPROM

04582..... ACC Transverse acceleration installation /
Internal gyro installed incorrectly

04582..... EBS..... CAN signal brake on wheel 7:
No communication

04583..... ACC User stack error

04583..... EBS..... Pressure module control unit on wheel 8:
Axle load sensor electrical power
supply is not switched on

04584..... ACC Piece AT fault

04584..... EBS..... Pressure module control unit on wheel 8:
Axle load sensor electrical power supply
short circuit to terminal 30

SPN..... Control unit/System..... Fault message

04585..... ACC ACC status fault

04585..... EBS..... Pressure module control unit on wheel 8:
incorrect / inconsistent data record
parameter in EEPROM

04586..... EBS..... CAN signal brake on wheel 8: No communication

04587..... EBS..... Pedal brake module switch 1: internal control unit fault

04588..... EBS..... Central control unit - B-controller:
internal control unit fault

04589..... EBS..... Central control unit - B-controller:
Analog / digital converter comparison error

04590..... EBS... Central control unit - B-controller: Incorrect function call

04591..... DIW5..... Solenoid valve RBG

04591..... EBS..... Central control unit - B-controller:
Self test comparison error

04592..... EBS..... Central control unit - A-controller:
internal control unit fault

04593..... EBS... Central control unit - A-controller: Incorrect function call

04594..... EBS..... Central control unit - A-controller: not switched on

04595..... EBS..... Central control unit EEPROM: incorrect configuration

04596..... EBS..... Trailer control module pressure control:
implausible pressure when no braked applied

04597..... EBS..... Trailer control module pressure control:
Backup test briefly incorrect

04598..... EBS..... Central control unit - B-controller:
implausibly high pressure from trailer control module sensor

04599..... EBS..... Brake pad wear sensor wheel 1:
Difference between the 2 signals on the
left and right sides of the axle too great

04600..... DIW5..... Input signal ABS

04600..... EBS..... Brake pad wear sensor wheel 2:
Difference between the 2 signals on the
left and right sides of the axle too great

04600..... ZBR2..... Door and stop symbol system

04601..... EBS..... Brake pad wear sensor wheel 3:
Difference between the 2 signals on the
left and right sides of the axle too great

04601..... ZBR2..... L.h. door contact

SD 812a en

Page 154 of 203

SPN.....	Control unit/System.....	Fault message
04602.....	EBS.....	Brake pad wear sensor wheel 4: Difference between the 2 signals on the left and right sides of the axle too great
04602.....	ZBRO.....	Request stop button enable
04603.....	EBS.....	Brake pad wear sensor wheel 5: Difference between the 2 signals on the left and right sides of the axle too great
04603.....	ZBRO.....	Request stop button
04604.....	EBS.....	Brake pad wear sensor wheel 6: Difference between the 2 signals on the left and right sides of the axle too great
04604.....	ZBRO.....	Request stop button
04605.....	EBS.....	Wheel 7: Brake performance monitoring
04605.....	ZBRO.....	Request stop display
04606.....	EBS.....	Wheel 8: Brake performance monitoring
04606.....	ZBRO.....	Request stop by person with disability
04607.....	EBS.....	Wheel 7 in conjunction with ABS logic: ABS is demanding insufficient brake pressure over an implausibly long time
04607.....	ZBRO.....	Baby carriage
04608.....	EBS.....	Wheel 8 in conjunction with ABS logic: ABS is demanding insufficient brake pressure over an implausibly long time
04608.....	ZBRO.....	Baby carriage
04609.....	EBS.....	Wheel 7 in conjunction with ABS logic: Wheel speed error
04609.....	ZBRO.....	Baby carriage message
04610.....	EBS.....	Wheel 8 in conjunction with ABS logic: Wheel speed error
04610.....	ZBRO.....	Baby carriage message
04611.....	EBS.....	Wheel 7 in conjunction with ABS logic: Change between active and inactive ABS intervention too fast
04611.....	ZBRO.....	Cancel baby carriage
04612.....	DIW5.....	Input signal ABS

SPN..... Control unit/System..... Fault message

04612	EBS	Wheel 8 in conjunction with ABS logic: Change between active and inactive ABS intervention too fast
04612	ZBRO	Cancel baby carriage
04613	EBS	Central control unit: Temperature too high
04613	ZBRO	Light barrier door 3
04614	EBS	Wheel sensor wheel 1: Connection cable damaged or sensor defective
04614	ZBRO	Light barrier door 3
04615	EBS	Wheel sensor wheel 2: Connection cable damaged or sensor defective
04615	ZBRO	Request stop buzzer
04616	EBS	Wheel sensor wheel 3: Connection cable damaged or sensor defective
04616	ZBRO	Fault value door system
04617	EBS	Wheel sensor wheel 4: Connection cable damaged or sensor defective
04617	ZBRO	Request for bus-stop brake by MTS
04618	EBS	Wheel sensor wheel 5: Connection cable damaged or sensor defective
04618	ZBRO	Door icing
04619	EBS	Wheel sensor wheel 6: Connection cable damaged or sensor defective
04619	ZBRO	Red/green display door system
04620	EBS	Output from additional valve: Short circuit between the connection cables
04620	ZBRO	Stop lamp MTS
04621	EBS	Output from additional valve: Circuit interrupted
04621	ZBRO	Warning buzzer MTS
04622	EBS	Output from additional valve: Short circuit to ground
04622	ZBRO	Door status
04623	EBS	Output from additional valve: Short circuit after terminal 30
04623	ZBRO	Door 1 / panel 1 check
04624	EBS	Output from additional valve: Short circuit in circuit
04624	ZBRO	Door 1 / panel 1 button

SPN..... Control unit/System..... Fault message

04625..... EBS..... Output from additional valve:
Installed but not configured

04625..... ZBRO..... Door 1 / panel 1 button

04626..... EBS..... Wheel sensor wheel 9

04626..... ZBRO..... Door 1 / panel 2 check

04627..... EBS..... Wheel sensor wheel 9: Connection cable
damaged or sensor defective

04627..... ZBRO..... Door 1 / panel 2 button

04628..... EBS..... Wheel sensor wheel 10

04628..... ZBRO..... Door 1 / panel 2 button

04629..... EBS..... Wheel sensor wheel 10: Connection cable
damaged or sensor defective

04629..... ZBRO..... Door 1 check

04630..... EBS..... Brake pad wear connection wheel 9

04630..... ZBRO..... Door 1 check

04631..... EBS..... Brake pad wear sensor signal wheel 9

04631..... ZBRO..... Door 1 emergency tap

04632..... EBS..... Brake pad wear sensor wheel 9:
Difference between the 2 signals on the
left and right sides of the axle too great

04632..... ZBRO..... Door 1 disrupted

04633..... EBS..... Brake pad wear sensor signal wheel 10

04633..... ZBRO..... Door 1 button

04634..... EBS..... Brake pad wear sensor wheel 10:
Difference between the 2 signals on the
left and right sides of the axle too great

04634..... ZBRO..... Door 1 button

04635..... EBS..... Pressure module control unit on wheel 7,
incompatible software components

04635..... ZBRO..... Door 2 check

04636..... EBS..... Pressure module control unit on wheel 7,
fault in electronic circuit

04636..... ZBRO..... Door 2 check

04637..... EBS..... Pressure module control unit on wheel 7,
internal control unit test incorrect

04637..... ZBRO..... Door 2 emergency tap

SPN..... Control unit/System..... Fault message

- 04638..... EBS..... Pressure module control unit on wheel 7,
unknown pressure control module fault code
- 04638..... ZBRO..... Door 2 disrupted
- 04639..... EBS..... Pressure module control unit on wheel 7,
incorrect system monitoring after activation
- 04639..... ZBRO..... Door 2 button
- 04640..... EBS..... Pressure module control unit on wheel 8,
incompatible software components
- 04640..... ZBRO..... Door 2 button
- 04641..... EBS..... Pressure module control unit on wheel 8,
fault in electronic circuit
- 04641..... ZBRO..... Door 3 check
- 04642..... EBS..... Pressure module control unit on wheel 8,
internal control unit test incorrect
- 04642..... ZBRO..... Door 3 check
- 04643..... EBS..... Pressure module control unit on wheel 8,
unknown pressure control module fault code
- 04643..... ZBRO..... Door 3 disrupted
- 04644..... EBS..... Pressure module control unit on wheel 8,
incorrect system monitoring after activation
- 04644..... ZBRO..... Door 3 button
- 04645..... EBS..... Pressure module control unit on wheel 9,
incompatible software components
- 04645..... ZBRO..... Door 3 button
- 04646..... EBS..... Pressure module control unit on wheel 9,
fault in electronic circuit
- 04646..... ZBRO..... Door 4 check
- 04647..... EBS..... Pressure module control unit on wheel 9,
internal control unit test incorrect
- 04647..... ZBRO..... Door 4 check
- 04648..... EBS..... Pressure module control unit on wheel 9,
unknown pressure control module fault code
- 04648..... ZBRO..... Door 4 button
- 04649..... EBS..... Pressure module control unit on wheel 9,
incorrect system monitoring after activation
- 04649..... ZBRO..... Door 4 button

SPN..... Control unit/System..... Fault message

04650..... EBS..... Pressure module control unit on wheel 10,
incompatible software components

04650..... ZBRO..... Block door panel 1

04651..... EBS..... Pressure module control unit on wheel 10,
fault in electronic circuit

04651..... ZBRO..... Block door panel 1

04652..... EBS..... Pressure module control unit on wheel 10,
internal control unit test incorrect

04652..... ZBRO..... Block door panel 2

04653..... EBS..... Pressure module control unit on wheel 10,
unknown pressure control module fault code

04653..... ZBRO..... Block door panel 2

04654..... EBS..... Pressure module control unit on wheel 10,
incorrect system monitoring after activation

04654..... ZBRO..... Door release

04655..... EBS..... Pressure module control unit on wheel 7,
EEPROM data record is not compatible with the system

04655..... ZBRO..... Door release

04656..... EBS..... Pressure module control unit on wheel 7,
EEPROM cannot be written

04656..... ZBRO..... Door release checkback MTS

04657..... EBS..... Pressure module control unit on wheel 8,
EEPROM data record is not compatible with the system

04657..... ZBRO..... Ignition 1 on for MTS

04658..... EBS..... Pressure module control unit on wheel 8,
EEPROM cannot be written

04658..... ZBRO..... Light enable

04659..... EBS..... Pressure module control unit on wheel 9,
EEPROM data record is not compatible with the system

04659..... ZBRO..... Request stop display

04660..... EBS..... Pressure module control unit on wheel 9,
EEPROM cannot be written

04660..... ZBRO..... MTS activation (K3-CAN)

04661..... EBS..... Pressure module control unit on wheel 10,
EEPROM data record is not compatible with the system

04661..... ZBRO..... Emergency tap

SPN..... Control unit/System..... Fault message

- 04662..... EBS..... Pressure module control unit on wheel 10,
EEPROM cannot be written
- 04662..... ZBRO..... Door 1 external button
- 04663..... EBS..... Power supply pressure module on wheel 7,
short circuit to terminal 15
- 04663..... ZBRO..... Door release checkback door 1
- 04664..... EBS..... Power supply pressure module on wheel 7
- 04664..... ZBRO..... Door release checkback door 2
- 04665..... EBS..... Power supply pressure module on wheel 7,
short circuit between the connection cables
- 04665..... ZBRO..... Door release checkback door 3
- 04666..... EBS..... Power supply pressure module on wheel 8,
short circuit to terminal 15
- 04666..... ZBRO..... Door release checkback door 4
- 04667..... EBS..... Power supply pressure module on wheel 8,
short circuit to terminal 15
- 04667..... ZBRO..... Bus-stop switching backwards
- 04668..... EBS..... Power supply pressure module on wheel 8,
short circuit between the connection cables
- 04668..... ZBRO..... Bus-stop switching backwards
- 04669..... EBS..... Power supply pressure module on wheel 9,
short circuit to terminal 15
- 04669..... ZBRO..... Bus-stop switching forwards
- 04670..... EBS..... Power supply pressure module on wheel 9
- 04670..... ZBRO..... Bus-stop switching forwards
- 04671..... EBS..... Power supply pressure module on wheel 9,
short circuit between the connection cables
- 04671..... ZBRO..... External request stop by person with disability
- 04672..... EBS..... Power supply pressure module on wheel 10,
short circuit to terminal 15
- 04672..... ZBRO..... Display request stop by person with disability
- 04673..... EBS..... Power supply pressure module on wheel 10
- 04673..... ZBRO..... Door malfunction
- 04674..... EBS..... Power supply pressure module on wheel 10,
short circuit between the connection cables
- 04674..... ZBRO..... Door 1 activation (K3-CAN)
- 04675..... EBS..... CAN signal brake on wheel 7

SD 812a en

SPN..... Control unit/System..... Fault message

04675	ZBRO	Door 1 / panel 1 open
04676	EBS	CAN signal brake on wheel 8
04676	ZBRO	Door 1 / panel 1 opening
04677	EBS	CAN signal brake on wheel 9
04677	ZBRO	Door 1 / panel 1 closing
04678	EBS	CAN signal brake on wheel 10
04678	ZBRO	Door 1 / panel 2 open
04679	EBS	CAN signal brake on wheel 7, time overrun of message 11
04679	ZBRO	Door 1 / panel 2 opening
04680	EBS	CAN signal brake on wheel 7, time overrun of message 12
04680	ZBRO	Door 1 / panel 2 closing
04681	EBS	CAN signal brake on wheel 7, time overrun of message 13
04681	ZBRO	Door 1 request stop display
04682	EBS	CAN signal brake on wheel 7, time overrun of message 14
04682	ZBRO	Door 1 request stop display
04683	EBS	CAN signal brake on wheel 7, time overrun of message 21
04683	ZBRO	Door 1 request stop by person with disability
04684	EBS	CAN signal brake on wheel 7, time overrun of message 22
04684	ZBRO	Door 1 ignition on
04685	EBS	CAN signal brake on wheel 7, time overrun of message 23
04685	ZBRO	Door 1 entry lighting
04686	EBS	CAN signal brake on wheel 7, time overrun of message 24
04686	ZBRO	Door 1 in local mode
04687	EBS	CAN signal brake on wheel 8, time overrun of message 11
04687	ZBRO	Door 2 request stop by person with disability
04688	EBS	CAN signal brake on wheel 8, time overrun of message 12
04688	ZBRO	Door 1 ready

SPN..... Control unit/System..... Fault message

04689	EBS	CAN signal brake on wheel 8, time overrun of message 13
04689	ZBRO	Door 1 standstill signal
04690	EBS	CAN signal brake on wheel 8, time overrun of message 14
04690	ZBRO	Door 2 activation (K3-CAN)
04691	EBS	CAN signal brake on wheel 8, time overrun of message 21
04691	ZBRO	Door 2 / panel 1 open
04692	EBS	CAN signal brake on wheel 8, time overrun of message 22
04692	ZBRO	Door 2 / panel 1 opening
04693	EBS	CAN signal brake on wheel 8, time overrun of message 23
04693	ZBRO	Door 2 / panel 1 closing
04694	EBS	CAN signal brake on wheel 8, time overrun of message 24
04694	ZBRO	Door 2 / panel 2 open
04695	EBS	CAN signal brake on wheel 9, time overrun of message 11
04695	ZBRO	Door 3 / panel 2 opening
04696	EBS	CAN signal brake on wheel 9, time overrun of message 12
04696	ZBRO	Door 2 / panel 2 closing
04697	EBS	CAN signal brake on wheel 9, time overrun of message 13
04697	ZBRO	Door 2 request stop display
04698	EBS	CAN signal brake on wheel 9, time overrun of message 14
04698	ZBRO	Door 2 request stop display
04699	EBS	CAN signal brake on wheel 9, time overrun of message 21
04699	ZBRO	Door 2 ignition on
04700	DIW5	Unknown engine load source
04700	EBS	CAN signal brake on wheel 9, time overrun of message 22
04700	ZBRO	Raise lift

SPN..... Control unit/System..... Fault message

04701	EBS	CAN signal brake on wheel 9, time overrun of message 23
04701	ZBRO	Raise lift
04702	EBS	CAN signal brake on wheel 9, time overrun of message 24
04702	ZBRO	Lift in motion
04703	EBS	CAN signal brake on wheel 10, time overrun of message 11
04703	ZBRO	Lower lift
04704	EBS	CAN signal brake on wheel 10, time overrun of message 12
04704	ZBRO	Lower lift
04705	EBS	CAN signal brake on wheel 10, time overrun of message 13
04705	ZBRO	Ramp full deployed
04706	EBS	CAN signal brake on wheel 10, time overrun of message 14
04706	ZBRO	Ramp in motion
04707	DIW5	Engine load source CAN: Error in engine map
04707	EBS	CAN signal brake on wheel 10, time overrun of message 21
04707	ZBRO	Ramp multifunction display
04708	DIW5	Engine load source CAN: Error that cannot be diagnosed with greater precision.
04708	EBS	CAN signal brake on wheel 10, time overrun of message 22
04708	ZBRO	Ramp enable
04709	EBS	CAN signal brake on wheel 10, time overrun of message 23
04709	ZBRO	Ramp enable
04710	EBS	CAN signal brake on wheel 10, time overrun of message 24
04710	ZBRO	Ramp flashing light
04711	DIW5	Engine load source Bosch EDC
04711	EBS	Speed sensor input on pressure regulating module wheel 9, faulty electronic circuit
04711	ZBRO	Ramp fully retracted

SPN..... Control unit/System..... Fault message

04712..... EBS..... Speed sensor input on pressure regulating
module wheel 10, faulty electronic circuit

04712..... ZBRO..... Door 2 entry lighting

04713..... EBS..... Speed sensor wheel 9, air gap too great

04713..... ZBRO..... Door 2 in local mode

04714..... EBS..... Speed sensor wheel 10, air gap too great

04714..... ZBRO..... Door 3 request stop by person with disability

04715..... EBS..... Speed sensor wheel 9, impulse wheel defective

04715..... ZBRO..... Door 2 ready

04716..... DIW5..... Engine load source Bosch EDC:
Speed range in data record faulty.

04716..... EBS..... Speed sensor wheel 10, impulse wheel defective

04716..... ZBRO..... Door 2 standstill signal

04717..... DIW5..... Engine load source Bosch EDC: Error in engine map

04717..... EBS..... Speed sensor wheel 9, tyre diameter too great

04717..... ZBRO..... Door 3 activation (K3-CAN)

04718..... DIW5..... Engine load source Bosch EDC:
Error that cannot be diagnosed with greater precision.

04718..... EBS..... Speed sensor wheel 10, tyre diameter too great

04718..... ZBRO..... Door 3 / panel 1 open

04719..... EBS..... Pressure module intake valve on wheel 7

04719..... ZBRO..... Door 3 / panel 1 opening

04720..... DIW5..... Brake request evaluation:
Unknown brake sensor in data record.

04720..... EBS..... Pressure module intake valve on wheel 7,
valve cannot be switched and is opened

04720..... ZBRO..... Door 3 / panel 1 closing

04721..... DIW5..... Brake request evaluation: Impermissible
brake sensor combination in data record.

04721..... EBS..... Pressure module intake valve on wheel 7,
valve cannot be switched and is closed

04721..... ZBRO..... Door 3 / panel 2 open

04722..... DIW5..... Brake request evaluation:
No brake sensor set in data record.

04722..... EBS..... Pressure module intake valve on wheel 8

04722..... ZBRO..... Door 3 / panel 2 opening

SPN..... Control unit/System..... Fault message

- 04723..... DIW5..... Brake request evaluation: Invalid brake sensor priority in data record.
- 04723..... EBS..... Pressure module intake valve on wheel 8, valve cannot be switched and is opened
- 04723..... ZBRO..... Door 3 / panel 2 closing
- 04724..... DIW5..... Brake request evaluation: Error that cannot be diagnosed with greater precision.
- 04724..... EBS..... Pressure module intake valve on wheel 9
- 04724..... ZBRO..... Door 3 request stop display
- 04725..... EBS..... Pressure module intake valve on wheel 9, valve cannot be switched and is opened
- 04725..... ZBRO..... Door 3 request stop display
- 04726..... EBS..... Pressure module intake valve on wheel 9, valve cannot be switched and is closed
- 04726..... ZBRO..... Door 3 ignition on
- 04727..... EBS..... Pressure module intake valve on wheel 10
- 04727..... ZBRO..... Door 3 entry lighting
- 04728..... EBS..... Pressure module intake valve on wheel 10, valve cannot be switched and is opened
- 04728..... ZBRO..... Door 3 in local mode
- 04729..... EBS..... Pressure module intake valve on wheel 10, valve cannot be switched and is closed
- 04729..... ZBRO..... Door 3 emergency tap actuated
- 04730..... DIW5..... CAN message TSC1, CAN signal (override control mode priority)
- 04730..... EBS..... Brake pad wear connection wheel 2
- 04730..... ZBRO..... Door 3 ready
- 04731..... EBS..... Brake pad wear connection wheel 3
- 04731..... ZBRO..... Door 3 standstill signal
- 04732..... EBS..... Brake pad wear connection wheel 4
- 04732..... ZBRO..... Door 4 activation (K3-CAN)
- 04733..... EBS..... Brake pad wear connection wheel 5
- 04733..... ZBRO..... Door 4 / panel 1 open
- 04734..... EBS..... Brake pad wear connection wheel 6
- 04734..... ZBRO..... Door 4 / panel 1 opening
- 04735..... EBS..... Brake pad wear connection wheel 7
- 04735..... ZBRO..... Door 4 / panel 1 closing

SPN..... Control unit/System..... Fault message

04736..... DIW5..... Brake signal source CAN: Brake pedal
continuously pressed.

04736..... EBS..... Brake pad wear connection wheel 8

04736..... ZBRO..... Door 4 / panel 2 open

04737..... DIW5..... Brake signal source CAN: Error that cannot
be diagnosed with greater precision.

04737..... EBS..... Pressure module exhaust valve on wheel 7

04737..... ZBRO..... Door 4 / panel 2 opening

04738..... EBS..... Pressure module exhaust valve on wheel 7,
valve cannot be switched and is opened

04738..... ZBRO..... Door 4 / panel 2 closing

04739..... EBS..... Pressure module exhaust valve on wheel 7,
valve cannot be switched and is closed

04739..... ZBRO..... Door 4 request stop display

04740..... DIW5..... Brake sensor signal source pedal brake sensor 3-stage

04740..... EBS..... Pressure module exhaust valve on wheel 8

04740..... ZBRO..... Door 4 ignition on

04741..... DIW5..... Brake sensor signal source infinitely variable (WABCO)

04741..... EBS..... Pressure module exhaust valve on wheel 8,
valve cannot be switched and is opened

04741..... ZBRO..... Door 1 entry lighting

04742..... DIW5..... Brake sensor signal source parking brake
sensor 3-stage

04742..... EBS..... Pressure module exhaust valve on wheel 8,
valve cannot be switched and is closed

04742..... ZBRO..... Door 4 standstill signal

04743..... EBS..... Pressure module exhaust valve on wheel 9

04743..... ZBRO..... Door enable door 1

04744..... EBS..... Pressure module exhaust valve on wheel 9,
valve cannot be switched and is opened

04744..... ZBRO..... Door enable door 2

04745..... EBS..... Pressure module exhaust valve on wheel 9,
valve cannot be switched and is closed

04745..... ZBRO..... Door enable door 3

04746..... EBS..... Pressure module exhaust valve on wheel 10

04746..... ZBRO..... Door enable door 4

04747..... EBS..... Pressure module exhaust valve on wheel 10,

SD 812a en

SPN..... Control unit/System..... Fault message

valve cannot be switched and is opened
04747 ZBRO Door 4 ready
04748 EBS Pressure module exhaust valve on wheel 10,
valve cannot be switched and is closed
04748 ZBRO Door 4 in local mode
04749 EBS Pressure module backup valve on wheel 7
04749 ZBRO Door 4 emergency tap actuated
04750 EBS Pressure module backup valve on wheel 7,
valve cannot be switched and is closed
04750 ZBRO Door 4 request stop display
04751 EBS Pressure module backup valve on wheel 8
04751 ZBRO Door 4 request stop by person with disability
04752 EBS Pressure module backup valve on wheel 8,
valve cannot be switched and is closed
04752 ZBRO Door 2 interior sign/exterior sign
04753 EBS Pressure module backup valve on wheel 9
04753 ZBRO Door 2 preliminary storage request stop
04754 EBS Pressure module backup valve on wheel 9,
valve cannot be switched and is closed
04754 ZBRO Door 3 interior sign/exterior sign
04755 EBS Pressure module backup valve on wheel 10
04755 ZBRO Door 3 preliminary storage request stop
04756 EBS Pressure module backup valve on wheel 10,
valve cannot be switched and is closed
04756 ZBRO Enable 20:00 hours
04757 EBS Pressure module pressure sensor on wheel 7, offset
04757 ZBRO Enable 20:00 hours
04758 EBS Pressure module pressure sensor on wheel 7, signal
04758 ZBRO Enable 20:00 hours check
04759 EBS Pressure module pressure sensor on wheel 8, offset
04759 ZBRO Door 1 malfunction
04760 EBS Pressure module pressure sensor on wheel 8, signal
04760 ZBRO Door 1 warning
04761 EBS Pressure module pressure sensor on wheel 9, offset
04761 ZBRO Door 2 malfunction
04762 EBS Pressure module pressure sensor on wheel 9, signal
04762 ZBRO Door 2 warning

SPN..... Control unit/System..... Fault message

- 04763..... EBS..... Pressure module pressure sensor on wheel 10, offset
- 04763..... ZBRO..... Door 3 malfunction
- 04764..... EBS..... Pressure module pressure sensor on wheel 10, signal
- 04764..... ZBRO..... Door 3 warning
- 04765..... EBS..... Wheel 9: Brake performance monitoring
- 04765..... ZBRO..... Door 4 malfunction
- 04766..... EBS..... Wheel 10: Brake performance monitoring
- 04766..... ZBRO..... Door 4 warning
- 04767..... EBS..... Wheel 9 in conjunction with ABS logic: ABS is
demanding insufficient brake pressure
over an implausibly long time
- 04767..... ZBRO..... Door 1 auxiliary button
- 04768..... EBS..... Wheel 10 in conjunction with ABS logic: ABS is
demanding insufficient brake pressure
over an implausibly long time
- 04768..... ZBRO..... Door 2 auxiliary button
- 04769..... EBS..... Wheel 9 in conjunction with ABS logic:
Wheel speed error
- 04769..... ZBRO..... Waiting room
- 04770..... EBS..... Wheel 10 in conjunction with ABS logic:
Wheel speed error
- 04770..... ZBRO..... Waiting room
- 04771..... EBS..... Wheel 9 in conjunction with ABS logic: Change
between active and inactive ABS intervention too fast
- 04771..... ZBRO..... Door 1 preliminary storage request stop
- 04772..... EBS..... Wheel 10 in conjunction with ABS logic: Change
between active and inactive ABS intervention too fast
- 04772..... ZBRO..... Door 1 interior sign/external sign
- 04773..... EBS..... External sequential fault: Time overrun in
communication with trailer control unit 3
- 04773..... ZBRO..... Switch doors back to active
- 04774..... EBS..... External sequential fault: Time overrun in
communication with trailer control unit 4
- 04774..... ZBRO..... Switch doors back to active
- 04775..... EBS..... External sequential fault: Time overrun in
communication with trailer control unit 5
- 04775..... ZBRO..... Door manual/automatic

SPN..... Control unit/System..... Fault message

04776..... EBS.....Pressure module pressure control on wheel 7:
Pressure comparison plausibility error: Request is
greater than the measured pressure

04776..... ZBRO.....Request stop display 2

04777..... EBS.....Pressure module pressure control on wheel 8:
Pressure comparison plausibility error: Request is
greater than the measured pressure

04777..... ZBRO.....Door 2 block

04778..... EBS.....Pressure module pressure control on wheel 9:
Pressure comparison plausibility error: Request is
greater than the measured pressure

04778..... ZBRO..... Door 1 constrained closing

04779..... EBS..... Pressure module pressure control on wheel 10:
Pressure comparison plausibility error: Request is
greater than the measured pressure

04779..... ZBRO..... Door 2 constrained closing

04780..... EBS.....Pressure module pressure control on wheel 7:
Pressure comparison plausibility error: Measured
pressure is greater than request

04780..... ZBRO..... Door 3 constrained closing

04781..... EBS.....Pressure module pressure control on wheel 8:
Pressure comparison plausibility error: Measured
pressure is greater than request

04781..... ZBRO..... Cancel stop request button

04782..... EBS.....Pressure module pressure control on wheel 9:
Pressure comparison plausibility error: Measured
pressure is greater than request

04782..... ZBRO..... Block door 3 20:00 hours

04783..... EBS..... Pressure module pressure control on wheel 10:
Pressure comparison plausibility error: Measured
pressure is greater than request

04783..... ZBRO.....Baby carriage door 3

04784..... EBS..... Pressure regulating module pressure control
on wheel 7: Full braking test

04784..... ZBRO..... Cancel baby carriage door 3

04785..... EBS..... Pressure regulating module pressure control
on wheel 8: Full braking test

SPN..... Control unit/System..... Fault message

04785..... ZBRO..... Ramp weight overload

04786..... EBS..... Pressure regulating module pressure control
on wheel 9: Full braking test

04786..... ZBRO..... Stop request chime

04787..... EBS..... Pressure regulating module pressure control
on wheel 10: Full braking test

04787..... ZBRO..... Switch off chime switch

04788..... EBS..... Pressure module pressure control on wheel 7:
Mismatch between pressure module pressure
and supply pressure

04788..... ZBRO..... Emergency exit door

04789..... EBS..... Pressure module pressure control on wheel 8:
Mismatch between pressure module pressure
and supply pressure

04790..... EBS..... Pressure module pressure control on wheel 9:
Mismatch between pressure module pressure
and supply pressure

04791..... EBS..... Pressure module pressure control on wheel 10:
Mismatch between pressure module pressure
and supply pressure

04792..... EBS..... Pressure regulating module pressure
control on wheel 7: Temporary backup test

04793..... EBS..... Pressure regulating module pressure
control on wheel 8: Temporary backup test

04794..... EBS..... Pressure regulating module pressure
control on wheel 9: Temporary backup test

04795..... EBS..... Pressure regulating module pressure
control on wheel 10: Temporary backup test

04796..... EBS..... Pressure regulating module pressure
control on wheel 7: Temporary brake test

04797..... EBS..... Pressure regulating module pressure
control on wheel 8: Temporary brake test

04798..... EBS..... Pressure regulating module pressure
control on wheel 9: Temporary brake test

04799..... EBS..... Pressure regulating module pressure
control on wheel 10: Temporary brake test

SPN..... Control unit/System..... Fault message

04800..... EBS..... Pressure module pressure control on wheel 7:
Implausible pressure differential right/left
04800..... ZBR2..... Status signal, central locking
04801..... EBS..... Pressure module pressure control on wheel 8:
Implausible pressure differential right/left
04801..... ZBRO..... Central locking left checkback open
04802..... EBS..... Pressure module pressure control on wheel 9:
Implausible pressure differential right/left
04802..... ZBRO..... Open central locking left
04803..... EBS..... Pressure module pressure control on wheel 10:
Implausible pressure differential right/left
04803..... ZBRO..... Open central locking left
04804..... EBS..... Pressure module pressure control on wheel 7:
Implausible pressure when no braked applied
04804..... ZBRO..... Lock central locking left
04805..... EBS..... Pressure module pressure control on wheel 8:
Implausible pressure when no braked applied
04805..... ZBRO..... Lock central locking left
04806..... EBS..... Pressure module pressure control on wheel 9:
Implausible pressure when no braked applied
04806..... ZBRO..... Central locking left checkback locked
04807..... EBS..... Pressure module pressure control on wheel 10:
Implausible pressure when no braked applied
04807..... ZBRO..... Central locking right checkback open
04808..... EBS..... Pressure module pressure control on wheel 7:
Implausible pressure at end of braking
04808..... ZBRO..... Open central locking right
04809..... EBS..... Pressure module pressure control on wheel 8:
Implausible pressure at end of braking
04809..... ZBRO..... Open central locking right
04810..... DIW5..... Evaluation gear selection range
04810..... EBS..... Pressure module pressure control on wheel 9:
Implausible pressure at end of braking
04810..... ZBRO..... Lock central locking right
04811..... EBS..... Pressure module pressure control on wheel 10:
Implausible pressure at end of braking
04811..... ZBRO..... Lock central locking right

SD 812a en

Page 171 of 203

SPN..... Control unit/System..... Fault message

04812..... DIW5..... Evaluation gear selection range: Gear information from button switch outside permitted value range or CAN signal requested gear or requested range outside the permitted value range.

04812..... EBS..... Pressure module pressure control on wheel 7: Implausible intake valve actuation

04812..... ZBRO..... Central locking right checkback locked

04813..... DIW5..... Evaluation gear selection range: Gear information from button switch incorrect or CAN signals requested gear or requested range return an error identification.

04813..... EBS_5..... Pressure module pressure control on wheel 8: Implausible intake valve actuation

04813..... OUZBRO..... Central locking flaps left

04813..... ZBRO..... Central locking flaps left

04814..... DIW5..... Evaluation gear selection range: Error in plausibility check within the gearbox control unit or CAN signals requested gear and requested range are contradictory.

04814..... EBS..... Pressure module pressure control on wheel 9: Implausible intake valve actuation

04814..... ZBRO..... Central locking flaps right

04815..... DIW5..... Evaluation gear selection range: Error that cannot be diagnosed with greater precision.

04815..... EBS..... Pressure module pressure control on wheel 10: Implausible intake valve actuation

04815..... ZBRO..... CL flaps left fault

04816..... EBS..... Pressure module pressure control on wheel 7: Implausible exhaust valve actuation

04816..... ZBRO..... CL flaps right fault

04817..... EBS..... Pressure module pressure control on wheel 8: Implausible exhaust valve actuation

04818..... EBS..... Pressure module pressure control on wheel 9: Implausible exhaust valve actuation

04819..... EBS..... Pressure module pressure control on wheel 10: Implausible exhaust valve actuation

04820..... EBS..... Pressure module pressure control on wheel 7: Residual pressure detected

SPN..... Control unit/System..... Fault message

04821 EBS Pressure module pressure control on wheel 8:
Residual pressure detected

04822 EBS Pressure module pressure control on wheel 9:
Residual pressure detected

04823 EBS Pressure module pressure control on wheel 10:
Residual pressure detected

04824 EBS Pressure module control unit on wheel 7,
checksum error in external flash memory

04825 DIW5 Supply voltage

04825 EBS Pressure module control unit on wheel 7,
outdated driver software

04826 EBS Pressure module control unit on wheel 8,
inconsistent driver software version between ECU
and boot loader

04827 EBS Pressure module control unit on wheel 8,
checksum error in external flash memory

04828 EBS Pressure module control unit on wheel 8,
outdated driver software

04829 EBS Pressure module control unit on wheel 9,
inconsistent driver software version between ECU
and boot loader

04830 DIW5 Reference voltage

04830 EBS Pressure module control unit on wheel 9,
checksum error in external flash memory

04831 DIW5 Reference voltage: Undervoltage Uref.

04831 EBS Pressure module control unit on wheel 9,
outdated driver software

04832 DIW5 Reference voltage: Overvoltage Uref.

04832 EBS Pressure module control unit on wheel 10,
inconsistent driver software version between
ECU and boot loader

04833 DIW5 Reference voltage: Error that cannot be diagnosed
with greater precision.

04833 EBS Pressure module control unit on wheel 10,
checksum error in external flash memory

04834 EBS Pressure module control unit on wheel 10,
outdated driver software

SPN..... Control unit/System..... Fault message

04835..... EBS..... Supply voltage brake pad wear sensor wheel 9:
Short circuit to ground

04836..... EBS..... Supply voltage brake pad wear sensor wheel 10:
Short circuit to ground

04837..... EBS..... Supply voltage brake pad wear sensor wheel 9:
was deactivated

04838..... EBS..... Supply voltage brake pad wear sensor wheel 10:
was deactivated

04839..... EBS..... Pressure module supply cable to wheel 7:
Current magnitude too high

04840..... EBS..... Pressure module supply cable to wheel 8:
Current magnitude too high

04841..... EBS..... Pressure module supply cable to wheel 9:
Current magnitude too high

04842..... EBS..... Pressure module supply cable to wheel 10:
Current magnitude too high

04843..... EBS..... Brake pad wear sensor wheel 9:
Monitoring of brake pad wear signal (decreasing)
between the axles of the vehicle

04844..... EBS..... Brake pad wear sensor wheel 10:
Monitoring of brake pad wear signal (decreasing)
between the axles of the vehicle

04845..... EBS..... Brake pad wear sensor wheel 9:
Monitoring of brake pad wear signal (decreasing)
within the axles

04846..... EBS..... Brake pad wear sensor wheel 10:
Monitoring of brake pad wear signal (decreasing)
within the axles

04847..... EBS..... Pressure module control unit on wheel 9:
Axle load sensor electrical power supply
is not switched on

04848..... EBS..... Pressure module control unit on wheel 9:
Axle load sensor electrical power supply short circuit
to terminal 30

04849..... EBS..... Pressure module control unit on wheel 9:
incorrect / inconsistent data record parameter
in EEPROM

SPN..... Control unit/System..... Fault message

04850 DIW5 Software module event memory:
Data record value

EVENTMEM_DELETE_ELEMENT_AFTER_
is set to '0' which is not permitted.

04850 EBS CAN signal brake on wheel 9: No communication

04851 DIW5 Software module event memory:
An error was detected in the software when checking
the EventTab event table.

04851 EBS Pressure module control unit on wheel 10:
Axle load sensor electrical power supply
is not switched on

04852 DIW5 Software module event memory:
A signalled event is in the EventTab event
table without reference.

04852 EBS Pressure module control unit on wheel 10:
Axle load sensor electrical power supply short circuit
to terminal 30

04853 DIW5 Software module event memory:
There is no reference in the form of a DTC column in the
EventTab event table as the basis for the OEM_ID_
data record value. The non-referenced data record value is
specified in the system description.

04853 EBS Pressure module control unit on wheel 10: incorrect /
inconsistent data record parameter in EEPROM

04854 DIW5 Software module event memory: A defect
was detected in the event memory structure.
The structure has been set up again.

This means any stored events have been lost.

04854 EBS CAN signal brake on wheel 10: No communication

04855 DIW5 Software module event memory: A diagnostic
object is signalling multiple instances of one error type.

04855 EBS Pressure regulating valve left: implausible activation time

04856 DIW5 Software module event memory: The size
of a system description of a diagnostic object is greater
than the available memory space.

04856 EBS Pressure regulating valve left intake valve:
Short circuit between the connections

SPN..... Control unit/System..... Fault message

04857 DIW5 Software module event memory: Buffer overrun of the (reentrant-capable) event memory or calls of the (non-reentrant-capable) event memory outside the time slices.

04857 EBS Pressure regulating valve right: implausible activation time

04858 EBS Pressure regulating valve right intake valve: Short circuit between the connections

04859 EBS Pressure regulating valve left exhaust valve: Short circuit between the connections

04860 DIW5 Gearshift manager: Invalid gearshift program in data record.

04860 EBS Pressure regulating valve right exhaust valve: Short circuit between the connections

04861 DIW5 Gearshift manager: Invalid dynamic tyre radius in data record.

04861 EBS Pressure module exhaust valve on wheel 6, valve cannot be switched and is closed

04862 DIW5 Gearshift manager: Invalid axle ratio in data record.

04862 EBS J1939 (driveline CAN): Time overrun or fault condition in communication with engine control unit (SA=0x00)

04863 DIW5 Gearshift manager: Invalid maximum gear hunting time in data record.

04863 EBS Brake pad wear connection wheel 10

04864 DIW5 Gearshift manager: Invalid maximum time for a forced downshift in data record.

04864 EBS Pressure module intake valve on wheel 8, valve cannot be switched and is closed

04865 DIW5 Gearshift manager: Incorrectly configured gearshift program in data record.

04865 EBS Central control unit EEPROM: Implausible values in 'General ABS configuration' block

04866 DIW5 Gearshift manager: Error that cannot be diagnosed with greater precision.

04866 EBS Central control unit EEPROM: Checksum error in 'General ABS configuration' block

SPN..... Control unit/System..... Fault message

04867 EBS..... External sequential fault: Time overrun or fault condition in communication with engine control unit (SA=0x00)

04868 EBS..... External sequential fault: Time overrun or fault condition in communication with vehicle management computer control unit (SA=0x27)

04869 EBS..... External sequential fault: Time overrun or fault condition in communication with tachograph (SA=0xEE)

04870 DIW5..... Security Manager software module

04870 EBS..... External sequential fault: Time overrun or fault condition in communication with TCU control unit (SA=0x03)

04871 DIW5..... Identification data software module

04871 EBS..... External sequential fault: Time overrun or fault condition in communication with EAC control unit (SA=0x30)

04872 DIW5..... Safety computer

04872 EBS.. External sequential fault: Time overrun or fault condition in communication with ECAS control unit (SA=0x2F)

04873 DIW5..... Memory test

04873 EBS..... External sequential fault: Time overrun or fault condition in communication with central on-board computer control unit (SA=0x21)

04874 DIW5..... TRAP error

04874 EBS..... Steering angle sensor not calibrated

04875 DIW5..... Analog/digital converter: ADC still occupied or ADC channel faulty.

04875 EBS..... CAN bus fault: Time overrun or fault condition in communication with the electronically steered rear axle

04879 DIW5..... Calibration data (for correcting hardware/component tolerances)

04880 DIW5..... Gearbox mechanical system: Blocking of output detected.

04900 DIW5..... CAN 1 - hardware: Memory test of CAN controller 1 was unsuccessful or defect within CAN controller 1 (RAM test).

SPN..... Control unit/System..... Fault message

04900..... ZBRO..... Sun blind down
04901..... ZBRO.....Sun blind down high
04902..... ZBRO..... Sun blind down low
04903..... ZBRO..... Sun blind up
04904..... ZBRO..... Sun blind up high
04905..... DIW5.....CAN 1 - hardware: Invalid bitrate.
04905..... ZBRO.....Sun blind up low
04909..... DIW5.....CAN 1 - hardware: Error that cannot be diagnosed
with greater precision.
04910..... DIW5.....CAN 2 - hardware: Memory test of CAN controller 2
was unsuccessful or defect within CAN
controller 2 (RAM test).
04911..... DIW5.....CAN 2 - hardware: Occurrence of BUS-OFF states.
Failures of CAN bus by occurrence of BUS-OFF states.
04912..... DIW5..CAN 2 - hardware: Occurrence of BUS warning states.
04913..... DIW5.....CAN 2 - hardware: At least one message could not
be sent within timeout time of send messages.
04914..... DIW5.....CAN 2 - hardware: Send buffer overrun or pipeline
sending messages of CAN controller 2 is full.
04915..... DIW5.....CAN 2 - hardware: Invalid bitrate.
04919..... DIW5.....CAN 2 - hardware: Error that cannot be diagnosed
with greater precision.
04931..... DIW5.....CAN protocol SAE J1939: Invalid CAN controller
number in data record.
04949..... DIW5.....CAN protocol SAE J1939: Error that cannot be
diagnosed with greater precision.
04960..... DIW5.....CAN protocol VOITH private CAN:
Timeout of message TC1 (Transmission Control 1).
04961..... DIW5.....CAN protocol VOITH private CAN:
Timeout of message INPUT VALUES 0.
04962..... DIW5.....CAN protocol VOITH private CAN:
Timeout of message INPUT VALUES 1.
04963..... DIW5.....CAN protocol VOITH private CAN:
Timeout of message INPUT VALUES 2.
04964..... DIW5.....CAN protocol VOITH private CAN:
Timeout of message CMD_Response.

SPN..... Control unit/System..... Fault message

04969 DIW5 CAN protocol VOITH private CAN:
Error that cannot be diagnosed with greater precision.

05000 ECO2 ZF environmental condition

05000 HDS Air pressure after nozzle evaluation

05000 ZBR2 Audio-visual warning device and display

05000 ZFR CAN data bus: EDC message EEC1

05001 CRT CAN message engine temperature

05001 ECO2 ZF environmental condition

05001 HDS Compressed air pressure

05001 RAS Oil level check

05001 WSK Retarder accumulator charge valve

05001 ZBR2 Check, instrumentation failure

05001 ZFR CAN data bus: Torque converter and clutch
system message Transmission Fluid WSK

05002 CRT CAN message EEC1

05002 HDS Temperature ahead of catalytic converter

05002 RAS Steering angle sensor front axle

05002 WSK Valve of torque converter lockup clutch

05002 ZBRO Alarm level red (prio. 1) check

05002 ZFR CAN data bus: EDC message Eng Temp

05003 CRT CAN message BAM

05003 HDS Temperature after catalytic converter

05003 RAS Steering angle sensor steered rear axle

05003 ZBRO Switch off display lighting

05003 ZFR CAN data bus: EDC message Inlet Exhaust Condition

05004 CRT CAN messages

05004 HDS Urea pressure

05004 RAS Speedometer / EBC speed signal comparison

05004 WSK Retarder proportional valve

05004 ZBRO Display dimming (0-15)

05004 ZFR CAN data bus: Tachograph message TCO1

05005 CRT Exhaust temperature sensor

05005 HDS Urea temperature in pump module

05005 RAS Shut-off valve

05005 WSK Retarder proportional valve, fault

05005 ZBRO Display dimming bottom pressed

05005 ZFR CAN data bus: Retarder message ERC1_RE

SPN..... Control unit/System..... Fault message

05006..... CRT..... Exhaust differential pressure sensor
05006..... HDSEEPROM error
05006..... RAS..... Control valve working circuit
05006..... WSK..... Output earth return proportional valve
05006..... ZBRO Display dimming top pressed
05006..... ZFR CAN data bus: Retarder message ERC1_RX
05007..... CRT..... Charge air temperature sensor
05007..... HDS Freezing cycles counter
05007..... RAS..... Deviation from setpoint in steering angle of rear axle
05007..... ZBRO Display change 1
05007..... ZFR CAN data bus: Retarder message ERC1_RD
05008..... CRT..... Engine brake butterfly
05008..... HDS Emergency off
05008..... RAS..... Monitoring circuit control unit
05008..... WSK..... Turbine speed: No signal
05008..... ZBRO Display change 2
05008..... ZFR CAN data bus: Retarder message Ret_Config_BAM (RE)
05009..... CRT..... CRT temperature too low for regeneration
05009..... HDS Detection of frozen lines
05009..... RAS..... Working circuit control unit for valve control
05009..... WSK..... Sensor, cooling water temperature
05009..... ZBRO Horn
05009..... ZFR CAN data bus: Retarder message
Ret_Config_Packet (RE)
05010..... CRT..... CRT is not regenerating although filter
temperature is correct
05010..... HDS Nitrogen oxide (NOx) sensor
05010..... WSK..... Read-back current of the proportional valve output
05010..... ZBRO Horn
05010..... ZFR CAN data bus: Retarder message Ret_Config_BAM (RX)
05011..... CRT..... CRT is blocked and must be cleaned
05011..... HDS Heating return flow line
05011..... WSK..... Vehicle electrical system voltage (TL 30)
05011..... ZBRO Horn a
05011..... ZFR CAN data bus: Retarder message
Ret_Config_Packet (RX)
05012..... CRT..... CRT temperature too high

SD 812a en

SPN..... Control unit/System..... Fault message

05012..... ECO2 Load sensor (A3)
05012..... HDS Compressed air valve
05012..... RAS..... CAN signal, speedometer speed
05012..... WSK..... Vehicle electrical system voltage (TL 15)
05012..... ZBRO..... Horn b
05012..... ZFR CAN data bus: Retarder message
Ret_Config_BAM (RD)
05013..... CRT..... Charge air temperature outside
permitted tolerance range
05013..... ECO2 Voltage output (5V) AU
05013..... HDS Heating supply line
05013..... RAS..... CAN signal, EBC vehicle speed
05013..... ZBRO Supply instrument lighting
05013..... ZFR CAN data bus: Retarder message
Ret_Config_Packet (RD)
05014..... CRT..... CAN message EEC3
05014..... ECO2 Retarder control lever (A12)
05014..... HDS inner heating
05014..... RAS..... CAN signal, engine speed
05014..... ZBRO Display day/night changeover
05014..... ZFR CAN data bus: Tachograph message TimeDate
05015..... CRT..... CAN message time / date
05015..... ECO2 Voltage failure
05015..... HDS Heating pressure equalisation
05015..... RAS..... CAN signal, weight
05015..... WSK..... Checksum operating hours counter
05015..... ZBRO Buzzer alarm level
05015..... ZFR CAN data bus: Tachograph message Vehicle Distance
05016..... CRT..... CAN message vehicle clearance
05016..... ECO2 Switch retarder (retarder pedal digital S12)
05016..... HDS Pump heating
05016..... RAS..... CAN signal, lifting axle
05016..... WSK..... Checksum fault memory
05016..... ZBRO Buzzer function indicator
05017..... CRT..... AGR throttle
05017..... ECO2 Retarder temperature sensor (B4)
05017..... HDS Heating pressure line

SPN..... Control unit/System..... Fault message

05017	RAS	CAN signal, parking brake
05017	WSK	Data bus, message EEC2 from FFR
05017	ZBRO	Buzzer advance warning level
05018	CRT	Internal system fault
05018	ECO2	Sump temperature sensor (B14)
05018	HDS	Urea metering valve
05018	RAS	CAN signal, bus transmitter-receiver
05018	WSK	Engine brake
05018	ZBRO	Adv. warning level yellow (prio. 2) check
05019	CRT	EEPROM memory defective
05019	HDS	Urea heating valve
05019	RAS	Calibrate parameter value
05019	WSK	Internal system error control unit
05019	ZBRO	On-board diagnosis fault
05020	CRT	Exhaust temperature after the filter
05020	HDS	Nitrogen fill level plausibility error
05020	RAS	ZF environmental condition
05020	WSK	Data bus, message TSC1 (braking torque)
05020	ZBRO	On-board diagnosis enable
05021	CRT	CAN message ETC 1
05021	ECO2	Output to gear element A valve (Y17)
05021	HDS	Pump speed
05021	WSK	CAN data bus, memory overflow
05021	ZBRO	Horn changeover
05022	CRT	CRT filter burnt out or not fitted
05022	ECO2	Output to gear element B valve (Y16)
05022	HDS	Air supply valve output stage
05022	WSK	CAN data bus, switched off
05022	ZBRO	Horn changeover
05023	ECO2	Output to gear element C valve (Y15)
05023	HDS	Blocked nozzle
05023	ZBRO	Horn changeover check
05024	ECO2	Output to gear element D valve (Y14)
05024	HDS	Air pressure sensor plausibility
05024	WSK	CAN data bus, receive confirmation
05024	ZBRO	Outside temperature
05025	ECO2	Output to gear element E valve (Y13)

SPN..... Control unit/System..... Fault message

05025	HDS	Compressed air fault during startup
05025	RAS	Calibration
05025	WSK	Data bus, message EEC1 from FFR
05025	ZBRO	Ice warning
05026	ECO2	Output to gear element F valve (Y12)
05026	HDS	Blockage of compressed air valve
05026	RAS	Ambient temperature
05027	ECO2	Output to gear element G valve (Y11)
05027	HDS	Compressed air not plausible
05027	RAS	Rear axle too close to measured stop
05027	WSK	Data bus, message ETC1_TCU
05028	ECO2	Output to torque converter lock-up clutch WK valve (Y18)
05028	HDS	Temperature ahead of catalytic converter
05028	WSK	Data bus, message TC1_TWSK from ASTRONIC
05029	ECO2	Output to retarder accumulator valve (Y2)
05029	HDS	Hydraulic fault
05029	WSK	Time / date message from TCO
05030	HDS	Pump motor fault during startup
05030	WSK	Data bus, mileage (km) message
05031	ECO2	Output to engine brake relay (K1)
05031	HDS	Pump motor fault
05032	ECO2	Output to gear signal relay (K2)
05032	HDS	Temperatures not plausible during startup
05033	ECO2	Output to gear signal relay 2
05033	HDS	Urea pressure not plausible
05034	ECO2	Output to speed signal relay (K3)
05034	HDS	Urea temperature of metering module
05035	ECO2	Output to speed signal relay 2
05035	HDS	Urea temperature of the tank
05036	ECO2	Output to power take-off valve (Y3)
05036	HDS	Air supply valve implausible during startup
05037	ECO2	Output to accelerator interlock valve (Y4)
05037	HDS	Air supply valve not plausible
05038	ECO2	Output to load enable relay (K11)
05038	HDS	External 12 V supply voltage fault
05039	ECO2	Output to detent solenoid relay (K4)

SPN..... Control unit/System..... Fault message

05041	ECO2	Output to selector lever lamp
05042	ECO2	Output ADVP (continuous signal)
05043	ECO2	Output to retarder brake lamp relay (K10)
05044	ECO2	Output to proportional solenoid D1 (Y20)
05045	ECO2	Output to retarder proportional solenoid (Y1)
05046	ECO2	Selector lever (A2)
05047	ECO2	Speedo signal output via pin SD2 (A10)
05048	ECO2	PWM interface (A8)
05049	ECO2	EEPROM data checksum
05051	ECO2	CAN B application CAN
05051	HDS	Urea quality sensor
05052	ECO2	System fault electronic control unit EST146
05053	ECO2	Malfunction SAE J 1708 (BUSOFF)
05054	ECO2	Malfunction SAE J 1708 (warning)
05055	ECO2	CAN A vehicle CAN
05056	ECO2	Output to retarder on valve (Y19)
05057	ECO2	Input speed (B13)
05058	ECO2	Output speed (B11)
05059	ECO2	Gearbox input speed (B12)
05062	ECO2	Retarder identifier (B16)
05063	ECO2	Gearbox coding
05064	ECO2	Gearbox slip monitoring
05065	ECO2	Retarder outlet temperature
05066	ECO2	Sump temperature
05067	ECO2	Digital output (AD) not occupied
05068	ECO2	Central shut-off device ZAE
05071	ECO2	Temperature warning output
05072	ECO2	PWM signal oil level sensor (B15)
05073	ECO2	Temperature warning output
05074	ECO2	Temperature warning output
05075	ECO2	Retarder sensor 'Manual' (retarder control lever digital S12)
05076	ECO2	Gear element slip time
05077	ECO2	TSC1_TE specification
05079	ECO2	Operating voltage
05080	HDS	Limit value error for exhaust mass and nitrogen oxide
05081	ECO2	Output relay selector lever 'Neutral 1'

SPN..... Control unit/System..... Fault message

05082	ECO2	Output relay selector lever 'Neutral 2'
05083	ECO2	Output relay reversing light
05084	ECO2	EEPROM data customer (checksum)
05085	ECO2	Output to status monitoring (H1)
05086	ECO2	Output 'Neutral at standstill (NBS) active'
05091	ECO2	Special function 1 set in parameters
05093	ECO2	D1 shift pressure adaptation upshift under load
05094	ECO2	D1 shift pressure adaptation coasting downshift
05095	ECO2	Shift time adaptation
05096	ECO2	Contact pressure adaptation
05098	ECO2	Special function 2 set in parameters
05100	HDS	Dummy
05100	ZBRO	Radio
05100	ZFR	Additional fan
05101	ZBRO	Radio
05101	ZFR	Main fan
05102	ZBRO	Radio check
05102	ZFR	Additional compressor
05103	ZBRO	Loudspeaker changeover external
05103	ZFR	Speed-dependent output
05104	ZBRO	Loudspeaker changeover external
05104	ZFR	Additional fan valve
05105	ZBRO	Loudspeaker changeover ext. check
05106	ZBRO	PA system
05107	ZBRO	PA system
05108	ZBRO	PA system check
05109	ZBRO	Input alarm system active
05110	HDS	Urea pressure
05110	ZBRO	Alarm system horn
05111	HDS	Compressed air ahead of throttle
05111	ZBRO	IBIS BON active
05112	HDS	Engine revs
05112	ZBRO	Switch on IBIS
05113	HDS	Metering volume
05113	ZBRO	IBIS transmit active
05114	HDS	Status
05114	ZBRO	IBIS external loudspeaker

SPN..... Control unit/System..... Fault message

05115	ZBRO	IBIS mike active
05116	ZBRO	IBIS control input 1 (output)
05117	ZBRO	IBIS control input 2 (output)
05118	ZBRO	IBIS call
05119	ZBRO	IBIS call active
05120	HDS	Monitoring error in monitoring module
05120	ZBRO	IBIS acknowledgement
05121	ZBRO	IBIS acknowledgement active
05122	ZBRO	IBIS door criterion
05126	ZBRO	Switch canceller OFF
05127	ZBRO	Output canceller OFF
05128	ZBRO	Switch IBIS OFF
05129	ZBRO	Output IBIS OFF
05130	ZBRO	Switch coin box OFF
05131	ZBRO	Output coin box OFF
05200	ZBRO	Driver's area door
05201	ZBRO	Driver's area door
05202	ZBRO	Driver's area door check
05203	ZBRO	Driver's area door buzzer
05204	ZBRO	Destination box lighting
05205	ZBRO	Destination box lighting
05206	ZBRO	Destination box lighting Check
05207	ZBRO	Paying console/driver's area lighting
05208	ZBRO	Paying console/driver's area lighting
05209	ZBRO	Paying console/driver's area lighting check
05210	ZBRO	Paying console socket
05211	ZBRO	Paying console socket
05212	ZBRO	Paying console socket check
05213	ZBRO	Paying console lighting 1
05215	ZBRO	Driver's area lighting
05216	ZBRO	Driver's area lighting 1
05217	ZBRO	Driver's area lighting
05218	ZBRO	Paying console activation coin box
05219	ZBRO	Paying console activation coin box
05300	ZBRO	Economy circuit front-end heater
05301	ZBRO	Front-end heater circulating pump
05302	ZBRO	Front-end heater inclined seat valve

SD 812a en

SPN..... Control unit/System..... Fault message

05303	ZBRO	Roof ventilator
05304	ZBRO	Roof ventilator left
05305	ZBRO	Roof ventilator right
05306	ZBRO	Roof duct heating
05307	ZBRO	Roof duct ventilation
05308	ZBRO	Roof hatch check
05309	ZBRO	Roof hatch 1 rear open
05310	ZBRO	Roof hatch 1 rear open
05311	ZBRO	Roof hatch 1 completely open
05312	ZBRO	Roof hatch 1 front open
05313	ZBRO	Roof hatch 1 front open
05314	ZBRO	Roof hatch 2 rear open
05315	ZBRO	Roof hatch 2 rear open
05316	ZBRO	Roof hatch 2 completely open
05317	ZBRO	Roof hatch 2 front open
05318	ZBRO	Roof hatch 2 front open
05319	ZBRO	Heating
05320	ZBRO	Air-conditioning requested
05321	ZBRO	Cool driver's area
05322	ZBRO	Coolant valve driver's area
05323	ZBRO	Set driver's area to recirculating air
05324	ZBRO	Recirculation ventilation hatch front-end
05325	ZBRO	Roof duct blower reduction
05326	ZBRO	Ice warning air-conditioning
05327	ZBRO	Air-conditioning fault
05328	ZBRO	Set roof to fresh air
05329	ZBRO	Ventilation hatch roof +
05330	ZBRO	Compressor activated
05331	ZBRO	Input check air-conditioning
05332	ZBRO	Air conditioning idling speed increase
05333	ZBRO	Engine running to air-conditioning
05334	ZBRO	Terminal 58 to air-conditioning
05335	ZBRO	Air-conditioning circulating pump on
05336	ZBRO	Inclined seat valve from air-conditioning
05337	ZBRO	Auxiliary heater to air-conditioning
05338	ZBRO	Ventilation
05339	ZBRO	Passenger area heater stage 1

SPN..... Control unit/System..... Fault message

05340	ZBRO	Heater fan 1 left stage 1
05341	ZBRO	Heater fan 2 left stage 1
05342	ZBRO	Heater fan 3 left stage 1
05343	ZBRO	Heater fan 2a right stage 1
05344	ZBRO	Heater fan 2b right stage 1
05345	ZBRO	Passenger area heater stage 2
05346	ZBRO	Heater fan 1 left stage 2
05347	ZBRO	Heater fan 2 left stage 2
05348	ZBRO	Heater fan 3 left stage 2
05349	ZBRO	Heater fan 2a right stage 2
05350	ZBRO	Heater fan 2b right stage 2
05351	ZBRO	Heater fan 2c right stage 2
05352	ZBRO	Interior thermostat (low=heating)
05353	ZBRO	Circulating pump a cooling water
05354	ZBRO	Circulating pump b cooling water
05355	ZBRO	Inclined seat valve cooling water
05356	ZBRO	Valve convector heating
05357	ZBRO	Auxiliary heater check
05358	ZBRO	Auxiliary heater economy circuit
05359	ZBRO	Auxiliary heater pre-set timer
05360	ZBRO	Auxiliary heater pre-set timer
05361	ZBRO	Auxiliary heater water v./circ. pump
05362	ZBRO	Roof ventilator
05363	ZBRO	Roof ventilator
05364	ZBRO	Roof ventilator
05365	ZBRO	Roof ventilator a
05366	ZBRO	Roof ventilator b
05367	ZBRO	Ventilation hatch roof -
05368	ZBRO	Set roof to recirculating air
05369	ZBRO	Recirculation ventilation hatch roof +
05370	ZBRO	Recirculation ventilation hatch roof -
05371	ZBRO	Interior thermostat fault
05372	ZBRO	Air-conditioning auxiliary heater request
05373	ZBRO	Passenger area heater stage 1
05374	ZBRO	Passenger area heater stage 2
05375	ZBRO	Interior thermostat (low=heating)
05376	ZBRO	Interior thermostat (high=heating)

SD 812a en

SPN..... Control unit/System..... Fault message

05377	ZBRO	Roof ventilator fault
05378	ZBRO	Auxiliary heater fault
05379	ZBRO	Air-conditioning fault
05380	ZBRO	Driver's fan switched off or fault
05381	ZBRO	Driver's fan fault
05382	ZBRO	Pedestal heater stage 1
05383	ZBRO	Pedestal heater stage 2
05384	ZBRO	Pedestal heater stage 1
05385	ZBRO	Pedestal heater stage 2
05386	ZBRO	Sw. driver's fan 2nd stage switched off or defective
05387	ZBRO	Driver's fan stage 1
05388	ZBRO	Driver's fan stage 2
05389	ZBRO	Roof hatch 3 rear open
05390	ZBRO	Roof hatch 3 rear open
05391	ZBRO	Roof hatch 3 completely open
05392	ZBRO	Roof hatch 3 front open
05393	ZBRO	Roof hatch 3 front open
05394	ZBRO	Water pump requested
05395	ZBRO	Parking lights heating control
05396	ZBRO	Auxiliary heater requested via passenger area heater
05397	ZBRO	Recirculation/ventilation hatch
05398	ZBRO	Recirculation/ventilation hatch
05399	ZBRO	Interior thermostat forebody fault
05400	ZBRO	Driver's seat heating switch
05401	ZBRO	Driver's seat heating
05402	ZBRO	ATC fault
05403	ZBRO	Air-conditioning system lower deck
05404	ZBRO	Air-conditioning system upper deck
05500	HDS	CAN error (no AAI message)
05500	ZBRO	Window heater
05501	HDS	CAN error (no ABC message)
05501	ZBRO	Window heater
05502	HDS	CAN error (no ATI message)
05502	ZBRO	Mirror heaters
05503	HDS	CAN error (no EEC1 message)
05503	ZBRO	Mirror heater left
05504	HDS	CAN error (no ETP message)

SPN..... Control unit/System..... Fault message

05504	ZBRO	Mirror heater right
05505	HDS	CAN error (no CEXH message)
05505	ZBRO	Door window heater
05506	HDS	CAN error (no FEC message)
05506	ZBRO	Door window heater a
05507	HDS	CAN error (no IEC message)
05507	ZBRO	Door window heater b
05508	HDS	CAN error (no NO1 message)
05508	ZBRO	Door window heater c
05509	HDS	CAN error (no PRO message)
05509	ZBRO	Door window heater d
05510	HDS	CAN error (no CTDA message)
05510	ZBRO	Windscreen heater
05511	HDS	Control unit or 'Heating on' faulty
05511	ZBRO	Windscreen heater
05512	HDS	CAN error (no CVDR message)
05513	HDS	CAN error (no CUQS message)
05600	KSM	Cab lock.
05600	ZBR2	Cab lock
05700	ZBR2	ACC rated distance
05800	ZBRO	Check CSR2
05801	ZBRO	Check CSR2
05802	ZBRO	Check CSR3
05803	ZBRO	Check CSR3
05804	ZBRO	Check CSR4
05805	ZBRO	Check CSR4
05806	ZBRO	Check CSR5
05807	ZBRO	Check CSR5
05808	ZBRO	Check CSR6
05809	ZBRO	Check CSR6
05810	ZBRO	Switch CSR1 bottom pressed
05811	ZBRO	Switch CSR1 bottom pressed
05812	ZBRO	Switch CSR1 top pressed
05813	ZBRO	Switch CSR1 top pressed
05814	ZBRO	Switch CSR1 check
05815	ZBRO	Switch CSR2 bottom pressed
05816	ZBRO	Switch CSR2 bottom pressed

SD 812a en

SPN..... Control unit/System..... Fault message

05817	ZBRO	Switch CSR2 top pressed
05818	ZBRO	Switch CSR2 top pressed
05819	ZBRO	Switch CSR2 check
05820	ZBRO	Switch CSR4 bottom pressed
05821	ZBRO	Switch CSR4 bottom pressed
05822	ZBRO	Switch CSR4 top pressed
05823	ZBRO	Switch CSR4 top pressed
05824	ZBRO	Switch CSR4 check
05825	ZBRO	Switch CSR5 bottom pressed
05826	ZBRO	Switch CSR5 bottom pressed
05827	ZBRO	Switch CSR5 top pressed
05828	ZBRO	Switch CSR5 top pressed
05829	ZBRO	Switch CSR5 check
05830	ZBRO	Switch CSR6 bottom pressed
05831	ZBRO	Switch CSR6 bottom pressed
05832	ZBRO	Switch CSR6 top pressed
05833	ZBRO	Switch CSR6 top pressed
05834	ZBRO	Switch CSR6 check
05835	ZBRO	Switch CSR7 bottom pressed
05836	ZBRO	Switch CSR7 bottom pressed
05837	ZBRO	Switch CSR7 top pressed
05838	ZBRO	Switch CSR7 top pressed
05839	ZBRO	Switch CSR7 check
05840	ZBRO	Switch CSR8 bottom pressed
05841	ZBRO	Switch CSR8 bottom pressed
05842	ZBRO	Switch CSR8 top pressed
05843	ZBRO	Switch CSR8 top pressed
05844	ZBRO	Switch CSR8 check
05900	ZBRO	Speed signal
05901	ZBRO	Speed signal fault
05902	ZBRO	Speed signal
06000	ZBR2	TCO1 message, tachograph
06001	ZBR2	ACC
06002	ZBR2	Date / time
06003	ZBR2	Road speed governing, road speed
06004	ZBR2	Instrumentation
06005	ZBR2	EBC1 message, EBS

SPN..... Control unit/System..... Fault message

06006..... ZBR2..... ECAS1 message, ECAS
06007..... ZBR2..... ECAM1 message, ECAM
06008..... ZBR2..... EEC1 message, FFR
06009..... ZBR2..... ERC_RD message, secondary retarder
06010..... ZBR2..... ERC_RE message, primary retarder
06011..... ZBR2..... Engine oil pressure
06012..... ZBR2..... Coolant temperature
06013..... ZBR2..... Ambient conditions missing, FFR message
06014..... ZBR2..... FFR
06015..... ZBR2..... EBC2 missing message, EBS
06016..... ZBR2..... EBC3 missing message, EBS
06017..... ZBR2..... EBC4 missing message, EBS
06018..... ZBR2..... Engine speed missing
06019..... ZBR2..... ETC1 missing message, FFR
06020..... ZBR2..... ETC2 missing message, FFR
06021..... ZBR2..... ETC3 missing message, FFR
06022..... ZBR2..... Fuel consumption missing, total fuel consumption /
consumption since last reset
06023..... ZBR2..... Fuel economy missing, fuel consumption in
litres per hour
06024..... ZBR2..... Inlet/exhaust conditions missing, boost
pressure information
06025..... ZBR2... TC1_FT missing, FFR message to automatic gearbox
06026..... ZBR2..... ACC1 message missing, display message from ACC
06027..... ZBR2..... Aux_stat_ZBR_1 not on T-CAN, switch message
1 not on T-CAN
06028..... ZBR2..... Aux_stat_ZBR_1 not on I-CAN, switch message
1 not on I-CAN
06029..... ZBR2..... Dash display/fuel not on I-CAN, cleaning water
tank display
06030..... ZBR2..... ERC1_RX missing, engine brake message missing
from FFR
06032..... ZBR2..... Aux_stat_ZBR_2 not on I-CAN, switch message
2 not on I-CAN
06033..... ZBR2..... Aux_stat_ZBR_3 not on I-CAN, switch message
3 not on I-CAN

SPN.....	Control unit/System.....	Fault message
06034.....	ZBR2.....	Reserved Aux_stat_ZBR_4 not on I-CAN, reserved switch message 4 not on I-CAN
06035.....	ZBR2.....	Vehicle electrical power not on CAN, voltage term. 30 and 15 from EDC via FFR
06036.....	ZBR2.....	Retarder_Fluids RD missing, secondary retarder fill level missing
06037.....	ZBR2.....	Retarder_Fluids RE missing, primary retarder fill level missing
06038.....	ZBR2.....	EEC2 message missing, electronic engine check 2 missing
06039.....	ZBR2.....	Transmission_Fluids missing, gearbox fill level
06040.....	ZBR2.....	Vehicle weight (EBS) missing, rear axle load (EBS) missing
06041.....	ZBR2.....	Vehicle weight (ECAS) missing, vehicle weight (ECAS) missing
06042.....	ZBR2.....	No engine configuration (multipacket), no engine configuration
06043.....	ZBR2.....	SPN reply message (MAN request) not on I-CAN
06044.....	ZBR2.....	SPN reply message (MAN request) not on I-CAN
06045.....	ZBR2.....	ECAM1 message not on T-CAN (ECAM auxiliary function only), reservoir pressures not on T-CAN
06046.....	ZBR2	Torque converter and clutch system (WSK) no message
06047.....	ZBR2.....	T-CAN fault: VDC1 message could not be received
06048.....	ZBR2.....	I-CAN ETC2 no message
06050.....	ZBR2.....	DM-1 ZBR2 message could not be sent (I-CAN)
06051.....	ZBR2.....	DM-1 message vehicle error memory and data memory (OBDU) could not be sent
06052.....	ZBR2.....	I-CAN error: No chassis number message
06053.....	ZBR2.....	T-CAN error: KSM2 message could not be received
06054.....	ZBR2.....	Vehicle weight message from EBS could not be sent
06055.....	ZBR2.....	ECAS message failure (ASC1_A)
06056.....	ZBR2.....	ECAS message failure (RGE21)
06057.....	ZBR2.....	I-CAN error: No door check message
06058.....	ZBR2.....	Aux_stat_Inst_2 not on I-CAN Switch message 2 not on I-CAN
06059.....	ZBR2.....	ESP message failure

SPN..... Control unit/System..... Fault message

06060..... ZBR2..... ECAS message failure (ASC3) height information
06061..... ZBR2... Vehicle weight message from ECAS could not be sent
06062..... ZBR2..... Vehicle weight message from EBS could not be sent
06110..... ZBRO Status IKN active
06111..... ZBRO Status node 1.1 fault number
06112..... ZBRO Status node 1.2 fault number
06113..... ZBRO Status node 1.3 fault number
06114..... ZBRO Status node 1.4 fault number
06115..... ZBRO Status node 1.5 fault number
06116..... ZBRO Status node 1.6 fault number
06117..... ZBRO Status node 1.7 fault number
06118..... ZBRO Status node 1.8 fault number
06121..... ZBRO Status node 2.1 fault number
06122..... ZBRO Status node 2.2 fault number
06123..... ZBRO Status node 2.3 fault number
06124..... ZBRO Status node 2.4 fault number
06125..... ZBRO Status node 2.5 fault number
06126..... ZBRO Status node 2.6 fault number
06127..... ZBRO Status node 2.7 fault number
06128..... ZBRO Status node 2.8 fault number
06202..... ZBR2..... I-CAN fault: Aux_stat_ZBR_2 message
could not be sent
06203..... ZBR2..... I-CAN fault: Aux_stat_ZBR_3 message
could not be sent
06204..... ZBR2. I-CAN fault: Modified message ETC2 could not be sent
06205..... ZBR2.... I-CAN fault: Dash Display message could not be sent
06206..... ZBR2..... T-CAN fault: ECAM1 message could not be sent
06207..... ZBR2..... I-CAN fault: ECAM1 message could not be sent
06208..... ZBR2..... I-CAN fault: DM1 ZBR2 message could not be sent
06209..... ZBR2..... I-CAN fault: DM1 OBDU message could not be sent
06250..... ZBR2.....no CAN message buffer
06251..... ZBR2..... CAN message not evaluated
06280..... ZBR2..... ROM test (program code) incorrect
06281..... ZBR2..... ROM test (EOL parameters) incorrect
06302..... ZBR2..... Serial communication
06303..... ZBR2..... T CAN ground
06304..... ZBR2..... T-CAN warning level, temporary fault T-CAN

SD 812a en

SPN..... Control unit/System..... Fault message

06305..... ZBR2..... I-CAN warning level, temporary fault I-CAN
06320..... ZBRO..... Status EBS (T-CAN) fault number
06321..... ZBRO..... Status engine control (T-CAN) fault no.
06322..... ZBRO..... Status gearbox (T-CAN) fault no.
06323..... ZBRO..... Status MTS fault number
06324..... ZBRO..... Status retarder (T-CAN) fault no.
06325..... ZBRO..... Status ECAS (T-CAN) fault number
06326..... ZBRO..... Status door 1 (K3-CAN) fault number
06327..... ZBRO..... Status door 2 (K3-CAN) fault number
06328..... ZBRO..... Status door 3 (K3-CAN) fault number
06329..... ZBRO..... Status door 4 (K3-CAN) fault number
06393..... ZBRO..... Status K3-CAN fault no. (new: 01673)
06394..... ZBRO..... Status FFR (T-CAN) fault number
06395..... ZBRO..... Status ECAS2 (T-CAN) fault number
06396..... ZBRO..... Status CBR2 (T-CAN)
06397..... ZBRO..... Status ECAM (T-CAN)
06400..... ZBRO..... Monitor
06401..... ZBRO..... Monitor
06402..... ZBRO..... Reversing camera
06403..... ZBRO..... Reversing camera
06500..... ZBRO..... Snow chains
06501..... ZBRO..... Snow chains
06502..... ZBRO..... Emergency exit window
06600..... ZBRO..... Galley
06601..... ZBRO..... Coffee machine
06602..... ZBRO..... Toilet
06603..... ZBRO..... Winter package
08000..... ZBRO..... Oil separator
08001..... ZBRO..... Oil separator middle of vehicle
08002..... ZBRO..... Oil separator rear
08003..... ZBRO..... Reservoir pressure BK1 too low
08004..... ZBRO..... Reservoir pressure BK2 too low
08005..... ZBRO..... Reservoir pressure BK4 too low
08006..... ZBRO..... Reservoir pressure BK2 sensor defective
08007..... ZBRO..... Reservoir pressure BK1 sensor defective
08008..... ZBRO..... Res. pres. BK2 sensor def. or. n.c
08009..... ZBRO..... Res. pres. BK1 sensor def. or. n.c

SPN..... Control unit/System..... Fault message

08010	..... ECAM	..... Pressure below warning level
08010	..... ZBR2	..... Pressure below warning level
08010	..... ZBRO	..... Res. pres. BK1 too low or sensor def.
08011	..... ECAM	..... Initial filling of circuit 1 – faulty
08011	..... ZBRO	..... Res. pres. BK1 too low or sensor def.
08012	..... ECAM	..... Initial filling of circuit 2 – faulty
08013	..... ECAM	..... Initial filling of circuit 3 – faulty
08014	..... ECAM	..... Initial filling of circuit 4 – faulty
08020	..... ECAM	..... No valid fault definition
08100	..... ECAM	..... Control unit defective; ROM checksum incorrect
08101	..... ECAM	..... Control unit defective; RAM fault
08101	..... INST	..... Total failure of CAN messages
08101	..... STON	..... Failure of all CAN messages, but no BUSOFF
08102	..... ECAM	..... Control unit defective; calibration data checksum incorrect
08103	..... ECAM	..... Control unit defective; parameter data checksum incorrect
08103	..... INST	..... CAN message tachograph: Speed and daily mileage counter
08103	..... STON	..... Failure of message TCO1 (speed, reset trip counter)
08104	..... ECAM	..... Pressure, pressure sensor – preliminary circuit/pressure regulator
08104	..... INST	..... CAN message tachograph: Route information
08104	..... STON	..... Failure of Vehicle Distance message (trip mileage counter, total mileage counter)
08104	..... ZBR2	..... Previous circuit
08105	..... INST	..... CAN message tachograph: Date / time
08105	..... STON	..... Failure of Time Date message (time information from tachograph)
08106	..... INST	..... CAN message ECAM: Brake pressure pickup (ECAM1)
08106	..... STON	..... Failure of ECAM1 message (reservoir pressures for brake)
08107	..... INST	..... CAN message central on-board computer: Tank content
08107	..... STON	..... Failure of Dash Display/Fuel Level message
08108	..... INST	..... CAN message EDC: Cooling water temperature

SPN..... Control unit/System..... Fault message

08108..... STON..... Failure of Engine Temperature message

08109..... INST..... CAN message gearbox control unit:
Gear display (ETC2)

08109..... STON..... Failure of ETC2 message (gear information)

08110..... INST..... CAN message gearbox control unit: Display
of splitter group (gear symbol, ETC3)

08110..... STON..... Failure of ETC3 message (splitter group)

08111..... INST..... CAN message EDC: Boost pressure

08111..... STON..... Failure of Inlet/Exhaust Conditions message
(boost pressure bar)

08112..... INST..... CAN message EDC: Engine speed

08112..... STON..... Failure of EEC1 message (engine speed display)

08113..... INST..... CAN message vehicle management computer:
Outside temperature

08113..... STON..... Failure of Ambient Conditions message
(external temperature display)

08114..... INST..... Control unit defective (ICOM total failure)

08114..... STON..... Combi-internal: ICOM total failure
(internal plug connection between PCBs)

08115..... INST..... Display fault

08116..... INST..... Stepping motor zero point

08117..... INST..... Buffer overrun with DM1 fault messages

08117..... STON..... Combi-internal: Processing error when receiving
DM1 messages: * Buffer overrun * Timeout error *
Sequence number error

08118..... INST..... Control unit defective (EEPROM checksum error)

08118..... STON..... Combi-internal: Checksum error when reading
EEPROM during ongoing operation

08119..... INST..... Control unit defective (EEPROM checksum error
during initialisation)

08119..... STON..... Combi-internal: Checksum error when reading
EEPROM in the initialisation phase

08120..... INST..... Temperature sensor

08120..... STON..... Combi-internal: Temperature outside the
permitted range

08121..... INST..... CAN message central on-board computer:
Status message 1

SPN..... Control unit/System..... Fault message

08121..... STON..... Failure of AUX_STAT_1 message

08122..... INST.....CAN message central on-board computer:
Status message 2

08122..... STON..... Failure of AUX_STAT_2 message

08123..... INST.....CAN message central on-board computer:
Status message 3

08123..... STON..... Failure of AUX_STAT_3 message

08124..... INST.....CAN message central on-board computer:
Status message 4

08124..... STON..... Failure of AUX_STAT_4 message

08125..... INST.....CAN message central on-board computer:
Status message 5

08125..... STON..... Failure of AUX_STAT_5 message

08126..... INST.....CAN message central on-board computer:
Status message 6

08126..... STON..... Failure of AUX_STAT_6 message

08127..... INST.....CAN message central on-board computer:
Status message 7

08127..... STON..... Failure of AUX_STAT_7 message

08128..... INST.....CAN message central on-board computer:
Status message 8

08128..... STON..... Failure of AUX_STAT_8 message

08129..... INST.....CAN message central on-board computer:
DM1 body controller

08129..... STON... Failure of DM1 Body Controller message (monitoring)

08130..... INST.....CAN message EDC: Cruise control vehicle speed
for cruise control function (CCVS)

08130..... STON.... Failure of CC/VHS message (cruise control function)

08131..... STON..... Failure of vehicle identification message
(chassis number)

08132..... STON..... Failure of Transmission Fluids exclusive message
or Transmission Fluids converter and clutch unit message

08133..... INST..... Parameter configuration faulty (consistency,
plausibility, assignment error)

08133..... STON..... Consistency error/plausibility error in configuration
in parameter tables

08134..... INST.....EOL parameter content: Error

SD 812a en

SPN..... Control unit/System..... Fault message

08134..... STON..... Error in EOL parameter content
08135..... STON..... Failure message tank info 1 (AdBlue fill level)
08200..... STON..... Button fault on multifunctional steering wheel (MFL)
08201..... ECAM..... Control unit defective; watchdog reset
08201..... STON..... Failure message MFL1 from multifunctional steering
wheel (LIN data bus)
08202..... ECAM..... Heating circuit
08203..... ECAM..... Temperature circuit
08204..... ECAM..... Maximum delivery volume without regeneration
exceeded after completion of first fill
08310..... ECAM..... CAN data bus driveline, receive time overrun in
message 'Wheel-based vehicle speed' from VMC
08320..... ECAM..... CAN data bus driveline, bus off
08330..... ECAM..... CAN data bus driveline, receive time
exceeded in TCO1 message from tachograph
08331..... ECAM..... CAN data bus driveline, values in 'TCO1
Vehicle Speed' message from tachograph not plausible
08340..... ECAM..... CAN data bus driveline, receive time exceeded
in EBC1 message from the EBS
08341..... ECAM..... CAN data bus driveline, values in EBC1
message from the EBS not plausible
08350..... ECAM..... CAN data bus driveline, receive time
violation (too short) in 'Aux_Stat_ZBR_1' message
from the central on-board computer
08351..... ECAM..... CAN data bus driveline, value in
'Aux_Stat_ZBR_1' message from the central
on-board computer not plausible
08360..... ECAM..... CAN data bus driveline, receive time
exceeded in 'Ambient_Condition' message from
vehicle management computer
08361..... ECAM..... CAN data bus driveline, values in
'Ambient air temperature' message from
vehicle management computer not plausible
08370..... ECAM..... CAN data bus driveline,
receive time exceeded in 'EEC1'
message from the EDC

SPN..... Control unit/System..... Fault message

08371 ECAM..... CAN data bus driveline, values in
'EEC1 - act_engine_torque' message from
the EDC not plausible

08372 ECAM..... CAN data bus driveline, values in
'EEC1 - engine_speed' message from
the EDC not plausible

08380 ECAM..... CAN data bus driveline, receive time exceeded
in 'Time/Date' message from tachograph

08381 ECAM..... CAN data bus driveline, values in
'Time/Date - Time parameter' message from
tachograph not plausible

08382 ECAM..... CAN data bus driveline, values in
Time/Date - Date parameter' message from
tachograph not plausible

08390 ECAM..... CAN data bus driveline, receive time exceeded in
'High Resolution Vehicle Distance' message
from tachograph

08391 ECAM..... CAN data bus driveline, values in 'High Resolution
Vehicle Distance' message
from tachograph not plausible

Abbreviations

Adaptive Cruise Control	ACC
Exhaust-gas recirculation	EGR
Arithmetic Logic Unit.....	ALU
AS-Tronic.....	AST
Service brake valve	BBV
Belt tensioner.....	BT
Control unit network.....	CAN
Cruise Control Vehicle Speed	CCVS
Continuously Regenerating Trap (catalytic converter).....	CRT
Comfort Shift.....	CS
Butterfly valve stipulation (adjustment angle)	DKV
Diagnostic message	DM
Drive Neutral Reverse (selector lever/switches for autom. gearbox) DNR	
Pressure before radiator	DvK
Speed pickup	DZG
Electronic Brake System.....	EBS
Electronically Controlled Air Management.....	ECAM
Electronically Controlled Air Suspension (applies to trucks and afterbody of articulated buses)	ECAS
Electronically Controlled Air Suspension (applies to forebody of articulated buses).....	ECAS2
Electronic control unit	ECU
Electronic Diesel Control	EDC
Final speed control	EDR
Electronic Engine Controller	EEC
Electrically programmable non-volatile read-only memory	EEPROM
Exhaust gas recirculation.....	EGR
Electrohydraulic steering system	EHLA
AS-Tronic lite	EMOS
End of Line programming	EOL
Electronic Transmission Control	ETC
Exhaust Valve Brake	EVB
Ride dynamics control	FDR
Vehicle management computer	FFR
Road speed limiter	FGB
Road speed control.....	FGR

Failure mode identification (fault type)	FMI
Closed-loop diesel catalyst	GDK
Behr air-conditioner control	GKR
Urea metering system	HDS
Hydraulic front axle drive (HydroDrive)	HVA
Auxiliary speed pickup	HZG
Integrated circuit	IC
CAN-connection between the two processors in main instrument	ICOM
Identification	ID
Instrument	INST
Intarder	INT
Customer-specific module	KSM
Message from customer-specific module	KSMA
Temperature sensor	KTY
Data transfer protocol MAN-cats II	KWP2000
Lane Guard System	LGS
Local Identifier	LID
Idling speed	LLR
Microprocessor	µC
Delivery control rack	MES
Modular door control	MTS
On-board diagnostic unit	OBDU
Parameter group number	PGN
Pulse width modulation	PWM
Rear Axle Steering	RAS
Central tyre inflation system	RDRA
Secondary retarder	Ret-S
Primary retarder	Ret-P
Ship vehicle management computer	SFFR
Side marker light	SML
Suspect Parameter Number	SPN
Headlight cleaning system	SWR
Telematic Board Module	TBM
EU tachograph	TCO
Gearbox control unit	TCU
Torque speed control (brake torque)	TSC
Central on-board computer	ZBR
Intermediate speed control	ZDR

FMI	Definition
-	No fault
-	Fault saved
-	Intermittent fault
-	Fault is present and saved
0	Fault not specified
1	Too high
2	Too low
3	Implausible
4	No signal present
5	Short-circuit to earth
6	Short-circuit to UBatt.
7	Short-circuit
8	Fault signal
9	Fault in component
10	Interruption
11	Not defined
12	Not defined
13	Not defined
14	Not defined
15	Not defined