



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

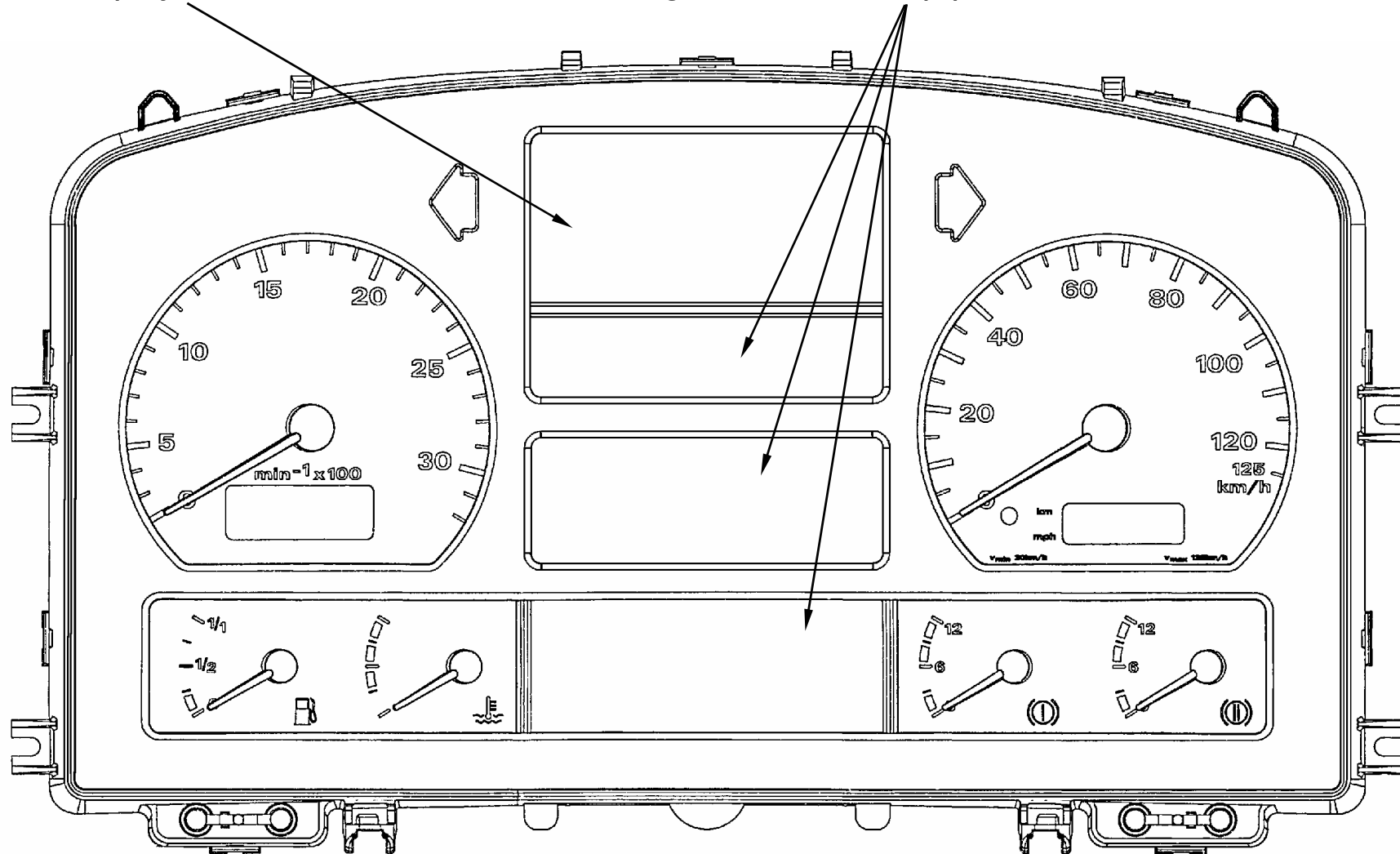


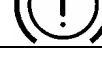
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VAST, mr 02.2006

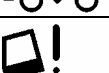
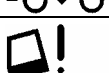
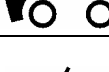
Main instrument

Message in display

Message via check lamp panels



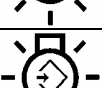
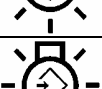
Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	ABS in trailer	 1	yel-low	yes	Line to trailer ABS to earth, fault in trailer ABS or trailer ABS speed sensor test
	ABS in trailer, failure	 1	yel-low	yes	Power supply to trailer ABS is not between 100mA and 2A
	ABS in tractor, failure		yel-low	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

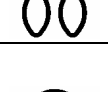
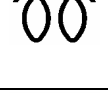
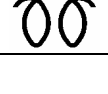
Display	Text in display	Check lamp panel	LED	Buz-zer-	Remarks
	Lock liftgate		red	yes	Cable from liftgate switch to High Potential
	Gas filter contaminated		red	yes	
	Comfort Shift defective		red	yes	Comfort Shift cannot be used
	Reservoir pressure – do not shift		red	yes	No reservoir pressure on gearbox
	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	

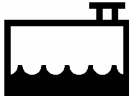
Display	Text in display	Check lamp panel	LED	Buz- zer-	Remarks
	New trailer, learn light test	-	-	no	
	High beam rh failure or high beam lh failure	-	-	yes	
	Add. headlight failure	-	-	yes	Relay for add. high beam (roof)
	Add. headlight lh failure or Add. headlight rh failure	-	-	yes	
	Foglamp lh failure 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 re- peated
	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 re- tarder)
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

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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	OBDO	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

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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..... EDCSolenoid 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..... CNGInjection valve of cylinder 5

00655..... EDCSolenoid 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..... CNGInjection valve of cylinder 6

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

00697..... allAccelerator pedal PWM1 signal

00698..... allAccelerator pedal PWM2 signal

00699..... allAccelerator pedal PWM1 and PWM2 signal

00702..... KSMEarth switch output, adjustable parameters

00703..... KSMSwitch terminal 30 output, adjustable parameters

00704..... KSMSwitch 2 terminal 30 output, adjustable parameters

00705..... KSMSwitch 3 terminal 30 output, adjustable parameters

00706..... KSMSwitch 4 terminal 30 output, adjustable parameters

00707..... KSMSwitch 5 terminal 30 output, adjustable parameters

00708..... KSMEarth switch 2 output, adjustable parameters

00709..... KSMEarth switch 3 output, adjustable parameters

00711..... EDCDuration of main injection

00723..... allAuxiliary engine speed sensor

00731..... CNGKnock sensor 1

00734..... allSolenoid valve circuit 1

00735..... allSolenoid valve circuit 2

00736..... allSolenoid valve circuit 3

00737..... allSolenoid valve circuit 4

00738..... allSolenoid valve pressure regulator

00739..... allSolenoid valve regeneration

00743..... RETOn/off valve

00744..... RETProportional 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..... allFuel 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..... ABDriver'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..... allDay
00963..... all Month
00964..... all Year

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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

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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

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..... KSMCAN 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..... ECASControl 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..... TBMGSM modem
03016..... EBS..... Control unit electrical power supply (tl. 15)
03016..... ECASControl unit
(checksum calibration data acceleration sensors)
03016..... EDCFFR1: Bit error zero quantity due to engine brake
03016..... KSMControl 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..... KSMControl 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..... ASTSmall valve for closing the clutch
03019..... EBS..... Setpoint sensing (accelerator to brake pedal position)

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

03019..... EDC FFR1: EDR min. nominal value not reached
03019..... EHLA..... Oil filter blocked
03019..... KSMControl 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..... FFRAccelerator pedal, PWM1 signal
03020..... KSMControl 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..... ASTLarge valve for closing the clutch
03021..... EBS..... Faulty pedal brake module potentiometer signal
03021..... EDCFFR1: Bit error intermediate speed governing
system parameter ID
03021..... EHLA..... CAN message 'EEC1'
03021..... FFRAccelerator pedal, PWM2 signal
03021..... KSM CAN data bus: Time overrun when receiving
vehicle management computer message Fuel_Cons.
03021..... SFFR..... Pedal value sensor
03021..... TBMAlarm switch
03021..... TPM Pressure in left outer tyre, axle 2
03022..... ASTElectrical power supply, speed sensor ASTronic output
03022..... EBS..... Faulty axle load sensor 1
03022..... EDCFFR1: 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_Dispatch.
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..... CNGVehicle 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..... CNGLambda 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..... CNGStarter control: Blocked
03045..... EBS.. Engine interface, adjustment lever angle increase input,
mark-to-space ratio < 5 %
03045..... EDCStarter activation defective
03045..... EHLA.....Angle encoder, steering axle 1, track 1

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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

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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

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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..... AST Switch 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..... AST Switch 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..... AST Switch 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

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

03073..... EBS.....Driveline CAN databus, receive time exceeded
03073..... EDCAmount 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..... ECASIncorrect 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..... ECASIncorrect 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..... ECASIncorrect CAN message (ASC_6A)
03078..... EDC Immobiliser: Invalid FR ID after quantity enable
03078..... RAS..... CAN signal speed speedometer
03079..... ECASIncorrect CAN message (ASC_6B)
03079..... EDC Governor linkage position
03080..... EBS..... Impermissible signal CCVS (parking brake)
03080..... ECAS Incorrect CAN message door status
03080..... EDCID number of EDC
03080..... EHLA.....CAN message CCVS
03080..... FFR..Driveline CAN sending message timeout (time overrun).
03081..... EBS.....Impermissible signal CCVS (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)

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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

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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

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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)

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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

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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

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

03157 ECASPressure sensor, brake

03157 FFRCAN 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 ECASPressure sensor lifting axle

03158 FFRCAN 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 FFRCAN data bus: EBS message EBC2, byte 5

03160 ASTSplitter shift sensor signal continuously active

03160 EBS..... Pressure control module, right front axle

03160 FFRCAN 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 FFRCAN 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 FFRCAN 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 FFRCAN 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 FFRCAN 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

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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..... ECASSolenoid 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..... ECASSolenoid 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..... TPMMedium leakage from right outer tyre, axle 1

03214..... ZBROFFR malfunction

03215..... ASTCAN 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..... ZBROFFR 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..... ZBROAccelerator 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..... ZBROAccelerator 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..... FFR.....CAN 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..... FFR.....CAN 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..... FFR.....CAN 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..... FFR.....CAN 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..... ZBROEngine 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..... CNGCharge air pressure governing system
03231..... EBS..... Pressure control module, left rear axle,
faulty backup valve checkback
03231..... ECASLeakage
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..... ZBROOil 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

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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..... OBDU.....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

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

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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

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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

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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

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..... FFR.....CAN databus: KSM message KSM1, byte 5
03434..... EBS..... Trailer control module, faulty outlet valve checkback
03434..... FFR.....CAN 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

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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 HDSUrea 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..... KSMFirst 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..... ZBROBrake 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..... ZBROBrake 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

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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

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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

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)

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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

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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

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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)

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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

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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

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

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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

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04037 ..... INT .....CAN data bus, message TSC1 from FFR
04037 ..... ZBR2.....Current, parking light, trailer, left
04037 ..... ZBRO .....Tail 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 ..... INT .....Lamp, 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 ..... INT .....Flashing 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 ..... INT .....CAN data bus, message EPS
04045 ..... ZBR2.....Turn indicators operated for both directions

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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

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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

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

04181..... EBS.....CAN signal brake on wheel 3, time overrun
of message 21

04181..... EMOSSecurity layer activated

04182..... EBS.....CAN signal brake on wheel 3, time overrun
of message 22

04183..... EBS.....CAN signal brake on wheel 3, time overrun
of message 23

04184..... EBS.....CAN signal brake on wheel 3, time overrun
of message 24

04185..... EBS.....CAN signal brake on wheel 4, time overrun
of message 11

04186..... EBS.....CAN signal brake on wheel 4, time overrun
of message 12

04187..... EBS.....CAN signal brake on wheel 4, time overrun
of message 13

04188..... EBS.....CAN signal brake on wheel 4, time overrun
of message 14

04189..... EBS.....CAN signal brake on wheel 4, time overrun
of message 21

04190..... EBS.....CAN signal brake on wheel 4, time overrun
of message 22

04191..... EBS.....CAN signal brake on wheel 4, time overrun
of message 23

04192..... EBS.....CAN signal brake on wheel 4, time overrun
of message 24

04193..... EBS.....CAN signal brake on wheel 5, time overrun
of message 11

04194..... EBS.....CAN signal brake on wheel 5, time overrun
of message 12

04195..... EBS.....CAN signal brake on wheel 5, time overrun
of message 13

04196..... EBS.....CAN signal brake on wheel 5, time overrun
of message 14

04197..... EBS.....CAN signal brake on wheel 5, time overrun
of message 21

04198..... EBS.....CAN 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..... ACCCruise 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..... ACC Valid 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..... ACC No / 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..... ACCACC 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..... ACCInternal 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..... ZBROAnti-jackknife protection damping

04504..... ACCInternal 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..... ACC Application 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..... ACCSupply 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

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

04532..... ACC ERC1_RD CAN message not received
(secondary retarder)

04532..... EBS..... Yaw angle sensor: implausible values

04533..... ACCEEC1 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..... ACCTCO1 CAN message not received

04536..... EBS..... Supply voltage for the ESP sensors: Range underrun

04537..... ACCEBC2 CAN message not received

04537..... EBS Supply voltage for the pressure module: Range underrun

04538..... ACCEEC2 CAN message not received

04538..... EBS.....Supply voltage for electronic pressure
control of the pressure modules: Range underrun

04539..... ACCETC1 CAN message not received

04539..... EBS..... Supply voltage for the pressure regulating valves:
Range underrun

04540..... ACCETC2 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..... ACCVDC1 CAN message not received

04542..... EBS..... Supply voltage for the trailer control module valves:
Range underrun

04543..... ACCAUX1_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

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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..... ACCRadar 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

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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

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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

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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

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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

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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

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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,

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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/exterior 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

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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

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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

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).

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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 ZBRODisplay 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

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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)

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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'

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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

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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)

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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

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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

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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

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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

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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

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08372 ..... ECAM..... CAN data bus driveline, values in
                                     'EEC1 - engine_speed' message from
                                     the EDC not plausible
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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