DTC - List Modified for FSDS

Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501
P492_: 213
P513_: 214, 300

Error Path	DEUTZ	SPN	Blink	Error Path	DEUTZ	SPN	Blink	Error Path	DEUTZ	SPN	Blink
AirFltSysReac	11	107	1-3-6	CTLpCD	54	704	1-2-3	FrmMngTOSwtOut	117	523238	1-1-5
APP1	12	91	2-2-6	CTSCD	55	110	2-2-5	FrmMngTOTCO1	118	523222	1-1-6
APPPwm	14	91	2-2-2	CTSCDSysReac	56	110	2-3-2	FrmMngTOTSC1AE	120	523605	1-1-8
APPPwmPer	15	91	2-2-2	Dummy1CD_Max	57	701	1-0-0	FrmMngTOTSC1AR	121	523606	1-1-9
APSCD	16	108	2-9-2	Dummy1CD_Min	58	701	1-0-0	FrmMngTOTSC1DE	122	523607	1-1-8
ArHt1	17	729	2-6-3	Dummy1CD_SigNpl	59	701	1-0-0	FrmMngTOTSC1DR	123	523608	1-1-9
ArHt2	18	730	2-6-3	Dummy2CD_Max	60	702	1-0-0	FrmMngTOTSC1PE	124	523609	1-1-8
ArHtCD_NoLd	19	676	2-6-3	Dummy2CD_Min	61	702	1-0-0	FrmMngTOTSC1TE	125	898	1-1-8
ArHtCD_RlyErr	20	676	2-6-3	Dummy2CD_SigNpl	62	702	1-0-0	FrmMngTOTSC1TR	126	520	1-1-9
BattCD	22	168	3-1-8	EGRCD_Max	69	2791	4-1-4	FrmMngTOTSC1VE	127	523610	1-1-8
BattCDSysReac	23	168	3-1-8	EGRCD_Min	70	2791	4-1-4	FrmMngTOTSC1VR	128	523611	1-1-9
BIPCyl1	24	523561	5-3-1	EGRCD_SigNpl	71	2791	4-1-5	FrmMngTxTO	131	523500	2-7-1
BIPCyl2	25	523562	5-3-2	EGRCDIntEGR	72	2791	4-1-6	FTSCD	133	174	2-2-7
BIPCyl3	26	523563	5-3-3	EngCDTrqCalcOut	74	923	5-5-5	FTSCDSysReac	134	174	2-3-7
BIPCyl4	27	523564	5-3-4	EngMBackUp	75	190	2-1-2	GOTSCD	136	523618	1-3-3
BIPCyl5	28	523565	5-3-5	EngMCaS1	76	190	2-1-2	GOTSCDSysReac	137	523619	1-3-3
BIPCyl6	29	523566	5-3-6	EngMCrS1	77	190	2-1-2	HdThrt	138	29	1-2-6
BIPCyl7	30	523567	5-3-7	EngMOfsCaSCrS	78	190	2-1-3	HOTSCD	139	1638	3-1-4
BIPCyl8	31	523568	5-3-8	EngPrtSysReacFOC	79	190	2-1-4	HOTSCDSysReac	140	1638	3-1-4
BPSCD	32	102	2-2-3	EngPrtSysReacORC	80	190	2-1-4	HWEMonCom	141	523617	5-5-5
BPSCDSysReac	33	102	2-2-3	ESLpCD	81	703	1-4-2	HWEMonEEPROM	142	630	2-8-1
CLSCDSysReac	37	111	2-3-5	ExFlCD	82	1074	2-1-9	HWEMonRcyLocked	143	523612	5-5-5
CmbChbMisfire1	38	1323	2-4-1	FanCD	83	975	2-3-8	HWEMonRcySuppressed	144	523612	5-5-5
CmbChbMisfire2	39	1324	2-4-1	FanCDEval	85	1639	2-3-8	HWEMonRcyVisible	145	523612	5-5-5
CmbChbMisfire3	40	1325	2-4-1	FanCDSysReac	86	523602	2-3-8	HWEMonUMaxSupply	146	523612	5-5-5
CmbChbMisfire4	41	1326	2-4-1	FIFCD	87	97	2-2-8	HWEMonUMinSupply	147	523612	5-5-5
CmbChbMisfire5	42	1327	2-4-1	FIFCD_WtLvl	89	97	2-2-8	IATSCDk	149	105	1-2-8
CmbChbMisfire6	43	1328	2-4-1	FIPSCD	90	94	2-1-6	IATSCDSysReac	150	105	2-3-3
CmbChbMisfire7	44	1450	2-4-1	FIPSCDSysReac	91	94	2-1-6	InjVlvBnk1A	153	523350	1-5-1
CmbChbMisfire8	45	1451	2-4-1	FrmMngDecV1	94	523239	5-2-6	InjVlvBnk1B	154	523351	1-5-1
CmbChbMisfireMul	46	1322	2-4-1	FrmMngFunModCtl	95	523240	5-2-7	InjVlvCyl2A	155	523352	1-5-2
CmbChbSysReac	47	1346	2-4-1	FrmMngTOEngPrt	106	523212	3-3-3	InjVlvBnk2B	156	523353	1-5-2
CoEngShOffDemIgr	48	1109	3-4-1	FrmMngTOPrHtEnCmd	110	523216	3-3-7	InjVlvChipA	157	523354	1-5-3
CRERCD	52	1072	5-2-8	FrmMngTORxCCVS	112	523218	1-1-1	InjVlvChipB	158	523355	1-5-3
CSLpCD	53	1081	3-2-8	FrmMngTORxEngTemp	113	523604	1-1-2	InjVlvCyl1A	159	651	1-5-4

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

Error Path	DEUTZ	SPN	Blink
InjVlvCyl1B	160	651	1-5-4
InjVlvCyl2A	161	652	1-5-5
InjVlvCyl2B	162	652	1-5-5
InjVlvCyl3A	163	653	1-5-6
InjVlvCyl3B	164	653	1-5-6
InjVlvCyl4A	165	654	1-6-1
InjVlvCyl4B	166	654	1-6-1
InjVlvCyl5A	167	655	1-6-2
InjVlvCyl5B	168	655	1-6-2
InjVlvCyl6A	169	656	1-6-3
InjVlvCyl6B	170	656	1-6-3
InjVlvCyl7A	171	657	1-6-4
InjVlvCyl7B	172	657	1-6-4
InjVlvCyl8A	173	658	1-6-5
InjVlvCyl8B	174	658	1-6-5
InjVlvErrDet	175	523370	5-5-5
MeUnCD_ADC	176	523615	1-3-5
MeUnCDNoLoad	177	523615	1-3-5
MeUnCDSCBat	178	523615	1-3-5
MeUnCDSCGnd	179	523615	1-3-5
MnRly1_SCB	182	2634	1-3-7
MnRly1_SCG	183	2634	1-3-8
Montr	184	523420	1-3-9
MRlyCD	186	2634	2-6-1
MRlyCDMnRly2	187	563	2-6-1
MRlyCDMnRly3	188	2634	2-6-1
MSSCD1	189	523450	1-4-3
MSSCD2	190	523451	1-4-3
MSSCD3	191	523452	1-4-3
NetMngCANAOff	192	639	2-7-1
NetMngCANBOff	193	1231	2-7-1
NetMngCANCOff	194	1235	2-7-1
OPLpCD	195	705	1-3-5
OPSCD	196	100	2-2-4
OPSCD1	197	100	2-3-1

Error Path	DEUTZ	SPN	Blink
OPSCDSysReacHi	198	100	2-3-1
OPSCDSysReacLo	199	100	2-3-1
OSwCD	200	1237	1-4-5
OTSCD	201	175	1-4-4
OTSCDSysReac	203	175	1-4-4
PRVMon	208	523470	1-4-6
RailCD	209	157	1-4-7
RailCDOfsTst	210	157	1-4-7
RailMeUn0	211	523613	1-3-4
RailMeUn1	212	523613	1-3-4
RailMeUn2	213	523613	1-3-4
RailMeUn3	214	523613	1-3-4
RailMeUn4	215	523613	1-3-4
RailMeUn7	216	523613	1-3-4
SOPTst	218	523490	1-4-9
SSpMon1	219	1079	2-8-2
SSpMon2	221	1080	2-8-2
SSpMon3	222	523601	2-8-2
StrtCDHS	223	677	5-1-2
StrtCDLS	224	677	5-1-2
SysLamp	225	624	5-1-3
T15CD	226	158	5-1-4
T50CD	227	523550	5-1-5
TPUMon	228	523550	5-5-5
VSSCD1	232	84	5-2-1
WdCom	235	523600	5-5-5
PRVMonSysReac	236	523470	1-4-6
APPCDSwtnSel	237	523006	2-4-2
FrmMng_TORxEngPress	238	523007	2-1-5
MplCtl	239	523008	4-2-4
OLSCD	240	98	2-1-1
OLSCDSysReacHi	241	98	2-5-1
ADPSCDAna	242	107	1-3-6
OLSCDSysReacLo	243	98	2-5-2
PrvMonWear	244	523009	2-5-3

Error Path	DEUTZ	SPN	Blink
RailMeUn8	245	523010	2-5-4
FlSys_FLPFMSysReac	246	523650	5-4-1
FlSys_FTSFMSysReac	247	523651	5-4-2
FlSys_FlushStateEngineOff	248	523652	5-4-3
FlSys_RapeOilHeatEx	249	523653	5-4-4
FrmMngDieselLvl	250	523654	5-4-5
FrmMngFuelTemp	251	523655	5-4-6
FrmMngLowPressureDiesel	252	523656	5-4-7
FrmMngRapeOilIn	253	523657	5-6-1
FrmMngRapeOilLvl	254	523658	5-6-2
FrmMngRapeOilVlv1	255	523659	5-6-3
FrmMngRapeOilVlv2	256	523660	5-6-4
FrmMngRapeOilVlv3	257	523661	5-6-5
FrmMngRapeOilVlv4	258	523662	5-6-6
FrmMngRapeOilVlv5	259	523663	5-6-7
FrmMngSTIN1RX	260	523664	5-6-8
FrmMngStEKP	261	523665	5-6-9
FrmMngStLmp	262	523666	5-7-1
FrmMngStOutRx	263	523667	5-7-2

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

AirFltSysReac

Error Description
Air filter differential pressure: the pressure difference of the intake air between the filter inlet and outlet calculated by ECU is above the target range and the ECU activates a system reaction

Error Codes
DEUTZ: 11, Blink: 1-3-6, SPN: 107,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Pressure loss above target range with system reaction, air filter clogged or defective, sensor not working, connection cable demaged

Corrective Action
Check airfilter and if necessary clean or renew it, check cabling, check air filter and if necessary replace the filter component, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a current value will be showed.

APP1

Error Description
Analog accelerator pedal sensor 1 or double accelerator pedal sensor: the voltage measured by ECU is out of the target range or the calculated pedal position is implausible compared with the position of the second pedal

Error Codes
DEUTZ: 12, Blink: 2-2-6, SPN: 91,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Voltage outside target range, signal implausible compared to signal of redundant pedal (analog pedal 1), sensor defective, connection cable demaged

Corrective Action
Check cabling, check accelator pedal sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, not self healing, as measured value a current value will be showed.

APPPwm

Error Description
Digital accelerator pedal sensor (PWM): the signal received by ECU is defective or implausible or the pulse-duty factor is out of the target range

Error Codes
DEUTZ: 14, Blink: 2-2-2, SPN: 91,
FMI (Bit 0,1,2,3):
8: unusual frequency, pulse or period.
8: unusual frequency, pulse or period.
2: data stream is defective
8: unusual frequency, pulse or period.

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Duty cycle outside target range, signal erroneous or implausible (pedal 1), sensor defective, onnection cable demaged

Corrective Action
Check cabling, check accelator pedal sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

APPPwmPer

Error Description

digital accelerator pedal sensor (PWM): the frequence of the signal received by ECU is out of the target range

Error Codes

DEUTZ: 15, Blink: 2-2-2, SPN: 91,
FMI (Bit 0,1,2,3):
8: unusual frequency, pulse or period.
8: unusual frequency, pulse or period.
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Pulse frequency outside target range (pedal 1), sensor defective, connection cable demaged

Corrective Action

Check cabling, check accelator pedal sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

APSCD

Error Description

Ambient air pressure sensor (in ECU): the voltage measured by ECU is out of the target range or the calculated ambient air pressure is implausible compared with the charge air pressure

Error Codes

DEUTZ: 16, Blink: 2-9-2, SPN: 108,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
2: data stream is defective

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Ambient air pressure sensor defective, ECU defective

Corrective Action

Change ECU

Others Error Properties

Priority 4, self healing, as measured value a default value will be showed.

ArHt1

Error Description

Air heater relay: the current drain measured by ECU is out of the target range

Error Codes

DEUTZ: 17, Blink: 2-6-3, SPN: 729,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break or short circuit at EDC output, relay defective, connection cable demaged

Corrective Action

Check cabling, if sensor not working, check relay and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 2, self healing, as measured value a shutoff value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

ArHt2

Error Description
Air heater magnet valve: the current drain measured by ECU is out of the target range

Error Codes
DEUTZ: 18, Blink: 2-6-3, SPN: 730,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, valve defective, connection cable demaged

Corrective Action
Check valve and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a shutoff value will be showed.

ArHtCD_NoLd

Error Description
Air heater relay: the ECU detects no switching operation at the input of a readback process

Error Codes
DEUTZ: 19, Blink: 2-6-3, SPN: 676,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Relay energized, but no feedback on sense line, relay defective or wrong wired, preheat component defective, connection cable demaged

Corrective Action
Check cabling of preheat component, if relay not working,check relay and if necessary replace it, check preheat component and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, not self healing, as measured value a nominal value for output status will be showed.

ArHtCD_RlyErr

Error Description
Air heater relay: the ECU detects an implausible signal at the input of a readback process

Error Codes
DEUTZ: 20, Blink: 2-6-3, SPN: 676,
FMI (Bit 0,1,2,3):
5: current to low or broken wire
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Relay not energized, but working voltage on sense line, relay defective (can not disconnect or switch off), preheat component defective, connection cable demaged

Corrective Action
Check cabling of preheat component, if relay not working,check relay and if necessary replace it, check preheat component and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, not self healing, as measured value a nominal value for output status will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

BattCD

Error Description
Battery voltage: the voltage measured by ECU is out of the target range

Error Codes
DEUTZ: 22, Blink: 3-1-8, SPN: 168,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
1: data valid, but below normal working area
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Voltage below target range, battery defective, too high power supply voltage, too high contact resistance, wiring demaged, energie system overloaded, parametering inaccurate, ECU defective

Corrective Action
Check LIMA?, ECU, cabling, contact resistance, safety fuses, too high load in energy system, check battery and if necessary replace it, check battery pole and if necessary clean it, check connection cable and if necessary repair or replace it, check volta

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

BattCDSysReac

Error Description
Battery voltage: the voltage measured by ECU is out of the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 23, Blink: 3-1-8, SPN: 168,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Above target range with system reaction, too high power supply voltage, parametering inaccurate, ECU defective

Corrective Action
Check dataset of calibration of working voltage for application, check LIMA? Check voltage of generator, check the parameters and if necessary correct them, replace ECU

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

BIPCyl1

Error Description
Begin of injection of cylinder 1: the ECU can not identify the magnet valve or the injection pump with the measured value of current drain at the begin of the injection

Error Codes
DEUTZ: 24, Blink: 5-3-1, SPN: 523561,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
2: data stream is defective
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Value outside target range or missing (cylinder 1), magnet valve or injection pump defective

Corrective Action
Check magnetic valve or injection pump and if necessary change them

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

BIPCyl2

Error Description

Begin of injection of cylinder 2: the ECU can not identify the magnet valve or the injection pump with the measured value of current drain at the begin of the injection

Error Codes

DEUTZ: 25, Blink: 5-3-2, SPN: 523562,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
2: data stream is defective
2: data stream is defective

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Value outside target range or missing (cylinder 2), magnet valve or injection pump defective

Corrective Action

Check magnetic valve or injection pump
and if necessary change them

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

BIPCyl3

Error Description

Begin of injection of cylinder 3: the ECU can not identify the magnet valve or the injection pump with the measured value of current drain at the begin of the injection

Error Codes

DEUTZ: 26, Blink: 5-3-3, SPN: 523563,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
2: data stream is defective
2: data stream is defective

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Value outside target range or missing (cylinder 3), magnet valve or injection pump defective

Corrective Action

Check magnetic valve or injection pump
and if necessary change them

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

BIPCyl4

Error Description

Begin of injection of cylinder 4: the ECU can not identify the magnet valve or the injection pump with the measured value of current drain at the begin of the injection

Error Codes

DEUTZ: 27, Blink: 5-3-4, SPN: 523564,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
2: data stream is defective
2: data stream is defective

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Value outside target range or missing (cylinder 4), magnet valve or injection pump defective

Corrective Action

Check magnetic valve or injection pump
and if necessary change them

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

BIPCyl5

Error Description
Begin of injection of cylinder 5: the ECU can not identify the magnet valve or the injection pump with the measured value of current drain at the begin of the injection

Error Codes
DEUTZ: 28, Blink: 5-3-5, SPN: 523565,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
2: data stream is defective
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Value outside target range or missing (cylinder 5), magnet valve or injection pump defective

Corrective Action
Check magnetic valve or injection pump
and if necessary change them

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

BIPCyl6

Error Description
Begin of injection of cylinder 6: the ECU can not identify the magnet valve or the injection pump with the measured value of current drain at the begin of the injection

Error Codes
DEUTZ: 29, Blink: 5-3-6, SPN: 523566,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
2: data stream is defective
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Value outside target range or missing (cylinder 6), magnet valve or injection pump defective

Corrective Action
Check magnetic valve or injection pump
and if necessary change them

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

BIPCyl7

Error Description
Begin of injection of cylinder 7: the ECU can not identify the magnet valve or the injection pump with the measured value of current drain at the begin of the injection

Error Codes
DEUTZ: 30, Blink: 5-3-7, SPN: 523567,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
2: data stream is defective
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Value outside target range or missing (cylinder 7), magnet valve or injection pump defective

Corrective Action
Check magnetic valve or injection pump
and if necessary change them

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

BIPCyl8

Error Description
Begin of injection of cylinder 8: the ECU can not identify the magnet valve or the injection pump with the measured value of current drain at the begin of the injection

Error Codes
DEUTZ: 31, Blink: 5-3-8, SPN: 523568,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
2: data stream is defective
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Value outside target range or missing (cylinder 8), magnet valve or injection pump defective

Corrective Action
Check magnetic valve or injection pump
and if necessary change them

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

BPSCD

Error Description
Charge air pressure sensor: the measured voltage of sensor by ECU is out of the target range; the calculated charge air pressure is implausible or the received value via CAN is defective

Error Codes
DEUTZ: 32, Blink: 2-2-3, SPN: 102,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
2: data stream is defective
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, sensor defective, onnection cable demaged

Corrective Action
Check cabling, if LDF6T sensor not working, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a default value will be showed.

BPSCDSysReac

Error Description
Charge air pressure: the charge air pressure calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 33, Blink: 2-2-3, SPN: 102,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Outside target range with system reaction, air system demaged, sensor defective, onnection cable demaged

Corrective Action
Check air system, inspect air system and if necessary repair it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

CLSCDSysReac

Error Description
Coolant level: the coolant level calculated by ECU is underneath the allowed minimum

Error Codes
DEUTZ: 37, Blink: 2-3-5, SPN: 111,
FMI (Bit 0,1,2,3):
1: data valid, but below normal working area
1: data valid, but below normal working area
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Outside target range with system reaction, cooling system untight, sensor defective, onnection cable demaged

Corrective Action
Check coolant level, check cabling, inspect cooling system and if necessary repair it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, not self healing, as measured value a current value will be showed.

CmbChbMisfire1

Error Description
Misfire at cylinder 1: the number of the misfire detected by ECU is out of the allowed limit value

Error Codes
DEUTZ: 38, Blink: 2-4-1, SPN: 1323,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Misfire detected (cylinder 1), magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action
Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties
Priority 0, not self healing, as measured value a current value will be showed.

CmbChbMisfire2

Error Description
Misfire at cylinder 2: the number of the misfire detected by ECU is out of the allowed limit value

Error Codes
DEUTZ: 39, Blink: 2-4-1, SPN: 1324,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Misfire detected (cylinder 2), magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action
Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties
Priority 0, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

CmbChbMisfire3

Error Description

Misfire at cylinder 3: the number of the misfire detected by ECU is out of the allowed limit value

Error Codes

DEUTZ: 40, Blink: 2-4-1, SPN: 1325,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Misfire detected (cylinder 3), magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action

Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties

Priority 0, not self healing, as measured value a current value will be showed.

CmbChbMisfire4

Error Description

Misfire at cylinder 4: the number of the misfire detected by ECU is out of the allowed limit value

Error Codes

DEUTZ: 41, Blink: 2-4-1, SPN: 1326,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Misfire detected (cylinder 4), magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action

Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties

Priority 0, not self healing, as measured value a current value will be showed.

CmbChbMisfire5

Error Description

Misfire at cylinder 5: the number of the misfire detected by ECU is out of the allowed limit value

Error Codes

DEUTZ: 42, Blink: 2-4-1, SPN: 1327,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Misfire detected (cylinder 5), magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action

Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties

Priority 0, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

CmbChbMisfire6

Error Description

Misfire at cylinder 6: the number of the misfire detected by ECU is out of the allowed limit value

Error Codes

DEUTZ: 43, Blink: 2-4-1, SPN: 1328,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Misfire detected (cylinder 6), magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action

Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties

Priority 0, not self healing, as measured value a current value will be showed.

CmbChbMisfire7

Error Description

Misfire at cylinder 7: the number of the misfire detected by ECU is out of the allowed limit value

Error Codes

DEUTZ: 44, Blink: 2-4-1, SPN: 1450,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Misfire detected (cylinder 7), magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action

Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties

Priority 0, not self healing, as measured value a current value will be showed.

CmbChbMisfire8

Error Description

Misfire at cylinder 8: the number of the misfire detected by ECU is out of the allowed limit value

Error Codes

DEUTZ: 45, Blink: 2-4-1, SPN: 1451,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Misfire detected (cylinder 8), magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action

Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties

Priority 0, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

CmbChbMisfireMul

Error Description
Misfire at more cylinders: the number of the misfire detected by ECU is out of the allowed limit value

Error Codes
DEUTZ: 46, Blink: 2-4-1, SPN: 1322,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Misfire detected, magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action
Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties
Priority 0, not self healing, as measured value a current value will be showed.

CmbChbSysReac

Error Description
Misfire at more cylinders: the number of the misfire detected by ECU is out of the allowed limit value; the ECU activates a system reaction

Error Codes
DEUTZ: 47, Blink: 2-4-1, SPN: 1346,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Misfire detected with system reaction, magnet valve or injection pump defective, fuel system defective, motor engineering demaged

Corrective Action
Check magnetic valve or injection pump and if necessary replace them, check fuel system and if necessary repair it, check motor engineering and if necessary repair it

Others Error Properties
Priority 0, not self healing, as measured value a current value will be showed.

CoEngShOffDemlgr

Error Description
Request of engine off: the operator ignores the engine off request within an allowed period.

Error Codes
DEUTZ: 48, Blink: 3-4-1, SPN: 1109,
FMI (Bit 0,1,2,3):
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Shut-off request ignored by operator

Corrective Action
Warranty relevant

Others Error Properties
Priority 4, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

CRERCD

Error Description
Engine brake actuator (internal): the current drain measured by ECU is out of the target range or the maximum permissble temperature of the ECU component for power supply of the actuator is exceeded.

Error Codes
DEUTZ: 52, Blink: 5-2-8, SPN: 1072,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
cable break or short circuit, sensor defective, connection cable demaged

Corrective Action
Check actuator and if necessary replace it, check connection cable and if necessary repaire or replace it

Others Error Properties
Priority 2, not self healing, as measured value a nominal value for output status will be showed.

CSLpCD

Error Description
Indicator lamp of air heater relay: the current drain measured by ECU is out of the target range or the maximum permissble temperature of the ECU component for power supply of the lamp is exceeded

Error Codes
DEUTZ: 53, Blink: 3-2-8, SPN: 1081,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, lamp defective, connection cable demaged

Corrective Action
Check cabling and load, check lamp and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a nominal value for output status will be showed.

CTLpCD

Error Description
Warning lamp for coolant temperature: the current drain measured by ECU is out of the target range or the maximum temperature of the ECU component for power supply of the lamp is exceeded

Error Codes
DEUTZ: 54, Blink: 1-2-3, SPN: 704,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, lamp defective, connection cable demaged

Corrective Action
Check cabling and load, check lamp and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a nominal value for output status will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

CTSCD

Error Description
Coolant temperature sensor: the voltage of the sensor measured by ECU is out of the target range; the coolant temperature calculated by ECU is implausible compared with the oil temperature or the received value via CAN is defective

Error Codes
DEUTZ: 55, Blink: 2-2-5, SPN: 110,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
2: data stream is defective
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, lamp defective, connection cable demaged

Corrective Action
Check cabling, sensor defect, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a default value will be showed.

CTSCDSysReac

Error Description
Coolant temperature: the coolant temperature calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 56, Blink: 2-3-2, SPN: 110,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Outside target range with system reaction, cooling system not enough to be filled, clogged or demaged, cooling compressor dropped out, sensor defective, onnection cable demaged

Corrective Action
Check cycle cooling system and compressor, inspect cooling system and if necessary repair it, check cooling compressor and if necessary replace it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

Dummy1CD_Max

Error Description
Reserve output 1: the ECU detects a short circuit to battery

Error Codes
DEUTZ: 57, Blink: 1-0-0, SPN: 701,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit to Ubatt (output 1), connection cable demaged

Corrective Action
Check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a shutoff value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

Dummy1CD_Min

Error Description
Reserve output 1: the ECU detects a short circuit to ground

Error Codes
DEUTZ: 58, Blink: 1-0-0, SPN: 701,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit to ground (output 1), connection cable demaged

Corrective Action
Check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a shutoff value will be showed.

Dummy1CD_SigNpl

Error Description
Reserve output 1: the ECU detects no load or excess temperature of the ECU component for power supply of the connected components

Error Codes
DEUTZ: 59, Blink: 1-0-0, SPN: 701,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or ECU internal error (output 1), connection cable demaged, connected components defective, parametering of the output inaccurate, ECU defective

Corrective Action
Check connection cable and if necessary repair or replace it, check parameters and if necessary correct it, replace ECU

Others Error Properties
Priority 1, not self healing, as measured value a shutoff value will be showed.

Dummy2CD_Max

Error Description
Reserve output 2: the ECU detects a short circuit to battery

Error Codes
DEUTZ: 60, Blink: 1-0-0, SPN: 702,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit to Ubatt (output 2), onnection cable demaged

Corrective Action
Check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a shutoff value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

Dummy2CD_Min

Error Description
Reserve output 2: the ECU detects a short circuit to ground

Error Codes
DEUTZ: 61, Blink: 1-0-0, SPN: 702,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit to ground (output 2), connection cable demaged

Corrective Action
Check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a shutoff value will be showed.

Dummy2CD_SigNpl

Error Description
Reserve output 2: the ECU detects no load or excess temperature of the ECU component for power supply of the connected components

Error Codes
DEUTZ: 62, Blink: 1-0-0, SPN: 702,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or ECU internal error (output 2), connection cable demaged, connected components defective, parametering of the output inaccurate, ECU defective

Corrective Action
Check connection cable and if necessary repair or replace it, check parameters and if necessary correct it, replace ECU

Others Error Properties
Priority 1, not self healing, as measured value a shutoff value will be showed.

EGRCD_Max

Error Description
Actuator of the external EGR valve: the ECU detects a short circuit to battery

Error Codes
DEUTZ: 69, Blink: 4-1-4, SPN: 2791,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit to Ubatt, connection cable demaged

Corrective Action
Check cabling, sensor defect, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, not self healing, as measured value a shutoff value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

EGRCD_Min

Error Description
Actuator of the external EGR valve: the ECU detects a short circuit to ground

Error Codes
DEUTZ: 70, Blink: 4-1-4, SPN: 2791,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit to ground, connection cable demaged

Corrective Action
Check cabling, sensor defect, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, not self healing, as measured value a shutoff value will be showed.

EGRCD_SigNpl

Error Description
Actuator of the external EGR valve: the ECU detects no load or excess temperature of the ECU component for power supply of the connected components

Error Codes
DEUTZ: 71, Blink: 4-1-5, SPN: 2791,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
5: current to low or broken wire
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or excess temperature, sensor defective, connection cable demaged

Corrective Action
Check cabling, sensor defect, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, not self healing, as measured value a shutoff value will be showed.

EGRCDIntEGR

Error Description
Actuator of the internal EGR valve: the ECU detects no load or excess temperature of the ECU component for power supply of the actuator

Error Codes
DEUTZ: 72, Blink: 4-1-6, SPN: 2791,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break, short circuit or excess temperature, sensor defective, connection cable demaged

Corrective Action
Check cabling, sensor defect, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, not self healing, as measured value a shutoff value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

EngCDTrqCalcOut

Error Description
Output with PWM signal of the engine power: the current drain measured by ECU is out of the target range or the maximum permissible temperature of the ECU component to control the output is exceeded

Error Codes
DEUTZ: 74, Blink: 5-5-5, SPN: 923,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Engine Power output: cable break or short circuit, output defective, connection cable demaged

Corrective Action
Check cabling, sensor defect, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a shutoff value will be showed.

EngMBackUp

Error Description
Crankschaft speed sensor: the ECU receives no signal and uses the signal from camschaft speed sensor as alternative to calculate the engine speed

Error Codes
DEUTZ: 75, Blink: 2-1-2, SPN: 190,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Engine running only with cam-shaft speed signal, transmitter defective, connection cable demaged

Corrective Action
Check cabling of crankschaft sensor, check crankschaft sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, self healing, as measured value a - will be showed.

EngMCaS1

Error Description
Camschaft speed sensor: the ECU receives no signal or the signal is defective

Error Codes
DEUTZ: 76, Blink: 2-1-2, SPN: 190,
FMI (Bit 0,1,2,3):
12: Defective component
8: unusual frequency, pulse or period.
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Speed signal from cam-shaft defectiveiv or missing, transmitter defective, connection cable demaged, parametering of the sensor wheel inaccurate

Corrective Action
Check cabling, check camschaft sensor and if necessary replace it, check configuration of sensor wheel, check connection cable and if necessary repair or replace it, check parameters and if necessary correct them

Others Error Properties
Priority 4, self healing, as measured value a 0 will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

EngMCrS1

Error Description
Crankschaft speed sensor: the ECU receives no signal or the signal is defective

Error Codes
DEUTZ: 77, Blink: 2-1-2, SPN: 190,
FMI (Bit 0,1,2,3):
12: Defective component
8: unusual frequency, pulse or period.
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Speed signal from crankshaft defectiveiv or missing, transmitter defective, connection cable demaged, sensor wheel installed inaccurately

Corrective Action
Check cabling, check camschaft sensor and if necessary replace it, check configuration of sensor wheel, check connection cable and if necessary repair or replace it, check the position of sensor wheel and if necessary correct it

Others Error Properties
Priority 4, self healing, as measured value a 0 will be showed.

EngMOfsCaSCrS

Error Description
Speed sensor of crankschaft and camschaft: the received signals are out of phase

Error Codes
DEUTZ: 78, Blink: 2-1-3, SPN: 190,
FMI (Bit 0,1,2,3):
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Speed signals of crank-shaft and cam-shaft are phase-shifted, sensor wheel installed in wrong position, sensor wrong wired

Corrective Action
Check position from crankschaft sensor wheel to camschaft sensor wheel, polarisation crankschaft or camschaft sensor, check position of sensor wheel and if necessary correct it, check cabling and if necessary correct it

Others Error Properties
Priority 4, not self healing, as measured value a - will be showed.

EngPrtSysReacFOC

Error Description
Engine speed: the engine speed calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 79, Blink: 2-1-4, SPN: 190,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Engine overspeed detected with system reaction, maximum engine speed exceeded

Corrective Action

Others Error Properties
Priority 5, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

EngPrtSysReacORC

Error Description
Engine speed: under overrun conditions, the engine speed calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 80, Blink: 2-1-4, SPN: 190,
FMI (Bit 0,1,2,3):
14: Special Instructions
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Overrun conditions detected with system reaction, maximum engine speed exceeded

Corrective Action

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

ESLpCD

Error Description
Indicator lamp for engine running: the current drain measured by ECU is out of the target range or the maximum permissible temperature of the ECU component for power supply of the lamp is exceeded

Error Codes
DEUTZ: 81, Blink: 1-4-2, SPN: 703,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or internal ECU error, lamp defective, connection cable demaged

Corrective Action
Check cabling and load, check lamp and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a shutoff value will be showed.

ExFlCD

Error Description
Engine brake flap actuator: the current drain measured by ECU is out of the target range or the maximum permissible temperature of the ECU component for power supply of the actuator is exceeded

Error Codes
DEUTZ: 82, Blink: 2-1-9, SPN: 1074,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Engine brake flap actuator: cable break or short circuit, sensor defective, connection cable demaged

Corrective Action
Check cabling, sensor defect, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, not self healing, as measured value a shutoff value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FanCD

Error Description
Fan power stage: the current drain measured by ECU is out of the target range or the maximum permissible temperature of the ECU component for power supply of the actuator is exceeded

Error Codes
DEUTZ: 83, Blink: 2-3-8, SPN: 975,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
cable break or short circuit, sensor defective, connection cable demaged

Corrective Action
Check cabling, sensor defect, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, not self healing, as measured value a nominal value will be showed.

FanCDEval

Error Description
Fan speed sensor: the current drain measured by ECU is out of the target range

Error Codes
DEUTZ: 85, Blink: 2-3-8, SPN: 1639,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Sensor defective, connection cable demaged, fan speed outside the target range

Corrective Action
Check sensor and if necessary replace it, check connectionn cable and if necessary repair or replace it, check fan

Others Error Properties
Priority 2, self healing, as measured value a current value will be showed.

FanCDSysReac

Error Description
Fan speed: the fan speed calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 86, Blink: 2-3-8, SPN: 523602,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Above target range with system reaction

Corrective Action

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FIFCD

Error Description

Fuel filter water level sensor: the voltage of sensor measured by ECU is out of the target range

Error Codes

DEUTZ: 87, Blink: 2-2-8, SPN: 97,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

cable break or short circuit, sensor defective, connection cable demaged

Corrective Action

Check cabling, if sensor not working, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 1, self healing, as measured value a default value will be showed.

FIFCD_WtLvl

Error Description

Water in fuel: the water level calculated by ECU is above the allowed limit value

Error Codes

DEUTZ: 89, Blink: 2-2-8, SPN: 97,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Above target range, excess of maximum permissible water level in fuel filter

Corrective Action

flush water seperator

Others Error Properties

Priority 3, not self healing, as measured value a current value will be showed.

FIPSCD

Error Description

Low fuel pressure sensor: the voltage of sensor measured by ECU is out of the target range

Error Codes

DEUTZ: 90, Blink: 2-1-6, SPN: 94,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

cable break or short circuit, sensor defective, connection cable demaged

Corrective Action

Check cabling, if sensor not working, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 3, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FIPSCDSysReac

Error Description
Low fuel pressure: the low fuel pressure calculated by ECU is underneath the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 91, Blink: 2-1-6, SPN: 94,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Below target range with system reaction, interruption in cycling process of low fuel pressure (for example, fuel pump defective), sensor defective, connection cable demaged

Corrective Action
Check low fuel pressure loop system, Check fuel pump, inspect fuel system and if necessary repair it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

FrmMngDecV1

Error Description
CAN message DecV1 (Pseudo Pedal): the message can not be received by ECU or the received value is above the target range

Error Codes
DEUTZ: 94, Blink: 5-2-6, SPN: 523239,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
12: Defective component
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing or value above target range (message "DecV1" = pseudo pedal), CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, self healing, as measured value a default value will be showed.

FrmMngFunModCtl

Error Description
CAN message FunModCtl (Function Mode Control): the message can not be received by ECU

Error Codes
DEUTZ: 95, Blink: 5-2-7, SPN: 523240,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "FunModCtl" = function mode control, CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngTOEngPrt

Error Description

CAN message EngPrt (Engine Protection): the message can not be received by ECU

Error Codes

DEUTZ: 106, Blink: 3-3-3, SPN: 523212,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Missing message "EngPrt" = engine protection, CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 1, self healing, as measured value a default value will be showed.

FrmMngTOPrHtEnCmd

Error Description

CAN message PrHtEnCmd (Preheat and Engine Command): the message received can not be received by ECU

Error Codes

DEUTZ: 110, Blink: 3-3-7, SPN: 523216,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Missing message "PrHtEnCmd" = preheat and engine command; CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 1, self healing, as measured value a default value will be showed.

FrmMngTORxCCVS

Error Description

CAN message RxCCVS (Cruise Control): the message can not be received by ECU

Error Codes

DEUTZ: 112, Blink: 1-1-1, SPN: 523218,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Missing message "RxCCVS" = cruise control; CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 1, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngTORxEngTemp

Error Description
CAN message RxEngTemp (Engine Temperature): the message can not be received by ECU

Error Codes
DEUTZ: 113, Blink: 1-1-2, SPN: 523604,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "RxEngTemp" = engine temperature, CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, self healing, as measured value a default value will be showed.

FrmMngTOSwtOut

Error Description
CAN message SwtOut (Switching Output): the message can not be received by ECU

Error Codes
DEUTZ: 117, Blink: 1-1-5, SPN: 523238,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "SwtOut" = switch outputs, CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, self healing, as measured value a default value will be showed.

FrmMngTOTCO1

Error Description
CAN message "TCO1" (Speedo Signal): the message can not be received by ECU

Error Codes
DEUTZ: 118, Blink: 1-1-6, SPN: 523222,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "TCO1" = speedo signal, CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngTOTSC1AE

Error Description
CAN message TSC1-AE (Torque/Speed Control #1 from Automatic Traction Control to Engine): the message can not be received by ECU

Error Codes
DEUTZ: 120, Blink: 1-1-8, SPN: 523605,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "TSC1-AE", CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, not self healing, as measured value a default value will be showed.

FrmMngTOTSC1AR

Error Description
CAN message TSC1-AR (Torque/Speed Control #1 from Automatic Traction Control to Retarder): the message can not be received by ECU

Error Codes
DEUTZ: 121, Blink: 1-1-9, SPN: 523606,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "TSC1-AR", CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, not self healing, as measured value a default value will be showed.

FrmMngTOTSC1DE

Error Description
CAN message TSC1-DE (Torque/Speed Control #1 from Driveline to Engine): the message can not be received by ECU

Error Codes
DEUTZ: 122, Blink: 1-1-8, SPN: 523607,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "TSC1-DE", CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, not self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngTOTSC1DR

Error Description

CAN message TSC1-DR (Torque/Speed Control #1 from Driveline to Retarder): the message can not be received by ECU

Error Codes

DEUTZ: 123, Blink: 1-1-9, SPN: 523608,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Missing message "TSC1-DR", CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 1, not self healing, as measured value a default value will be showed.

FrmMngTOTSC1PE

Error Description

CAN message TSC1-PE (Torque/Speed Control #1 from Power Take Off to Engine): the message can not be received by ECU

Error Codes

DEUTZ: 124, Blink: 1-1-8, SPN: 523609,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Missing message "TSC1-PE", CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 1, not self healing, as measured value a default value will be showed.

FrmMngTOTSC1TE

Error Description

CAN message TSC1-TE (Torque/Speed Control #1 from Traction Control to Engine): the message can not be received by ECU

Error Codes

DEUTZ: 125, Blink: 1-1-8, SPN: 898,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Missing message "TSC1-TE", CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 1, not self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngTOTSC1TR

Error Description
CAN message TSC1-TR (Torque/Speed Control #1 from Traction Control to Retarder): the message can not be received by ECU

Error Codes
DEUTZ: 126, Blink: 1-1-9, SPN: 520,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "TSC1-TR", CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, not self healing, as measured value a default value will be showed.

FrmMngTOTSC1VE

Error Description
CAN message TSC1-VE (Torque/Speed Control #1 from Vehicle Control to Engine): the message can not be received by ECU

Error Codes
DEUTZ: 127, Blink: 1-1-8, SPN: 523610,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "TSC1-VE", CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, not self healing, as measured value a default value will be showed.

FrmMngTOTSC1VR

Error Description
CAN message TSC1-VR (Torque/Speed Control #1 from Vehicle Control to Retarder): the message can not be received by ECU

Error Codes
DEUTZ: 128, Blink: 1-1-9, SPN: 523611,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "TSC1-VR", CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, not self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngTxTO

Error Description
CAN message: the ECU detects a timeout for one or more posted message

Error Codes
DEUTZ: 131, Blink: 2-7-1, SPN: 523500,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Timeout for sent messages

Corrective Action

Others Error Properties
Priority 1, self healing, as measured value a - will be showed.

FTSCD

Error Description
Fuel temperature sensor: the voltage measured by ECU is out of the target range

Error Codes
DEUTZ: 133, Blink: 2-2-7, SPN: 174,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Fuel temp. sensor: cable break or short circuit, sendor defective, connection cable demaged

Corrective Action
Check cabling, if sensor not working, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a default value will be showed.

FTSCDSysReac

Error Description
Fuel temperature: the fuel temperature calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 134, Blink: 2-3-7, SPN: 174,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Above target range with system reaction, interruption of fuel loop (for example, rail pressure relief valve defective), sensor defective, connection cable demaged

Corrective Action
Check fuel system and if necessary repair it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

OTSCD

Error Description
Customer specific temperature sensor 1: the voltage of sensor measured by ECU is out of the target range or the received value of temperature via CAN is defective

Error Codes
DEUTZ: 136, Blink: 1-3-3, SPN: 523618,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
2: data stream is defective
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit (sensor 1), sensor defective, connection cable demaged, CAN bus wrong cabled, wiring demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Customer specific bugfixing, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it, Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN fun

Others Error Properties
Priority 2, self healing, as measured value a default value will be showed.

GOTSCDSysReac

Error Description
Customer specific temperature 1: the temperature calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 137, Blink: 1-3-3, SPN: 523619,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Outside target range with system reaction (temperature 1), dependant on the application

Corrective Action
Customer specific bugfixing, denpendant on application

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

HdThrt

Error Description
Hand throttle pedal sensor: the voltage measured by ECU is out of the target range or the calculated pedal position is implausible compared with the position of accelerator pedal 1

Error Codes
DEUTZ: 138, Blink: 1-2-6, SPN: 29,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, signal implausible compared to signal of idle sensor, transmitter defective, connection cable demaged

Corrective Action
Check cabling, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

HOTSCD

Error Description
Customer specific temperature sensor 2: the voltage of sensor measured by ECU is out of the target range or the received value of temperature via CAN is defective

Error Codes
DEUTZ: 139, Blink: 3-1-4, SPN: 1638,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
12: Defective component
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit (sensor 2), sensor defective, connection cable demaged, CAN bus wrong cabled, wiring demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Customer specific bugfixing, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it, Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN fun

Others Error Properties
Priority 2, self healing, as measured value a default value will be showed.

HOTSCDSysReac

Error Description
Customer specific temperature 2: the temperature calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 140, Blink: 3-1-4, SPN: 1638,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Outside target range with system reaction (temperature 2), dependant on the application

Corrective Action
Customer specific bugfixing, denpendant on application

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

HWEMonCom

Error Description
Internal hardware monitoring: the ECU detects a communication distrubance

Error Codes
DEUTZ: 141, Blink: 5-5-5, SPN: 523617,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Communication with chip CJ 940 disturbed, ECU defective

Corrective Action
If cannot delete the error, change ECU

Others Error Properties
Priority 4, not self healing, as measured value a - will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

HWEMonEEPROM

Error Description
Internal hardware monitoring: the ECU finds an error during the access to ist EEPROM memory or works with an alternative value

Error Codes
DEUTZ: 142, Blink: 2-8-1, SPN: 630,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
12: Defective component
12: Defective component
12: Defective component

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Error during EEPROM memory access or EEPROM works with substitute value, programming error, ECU defective

Corrective Action
If not programmed, EEPROM is defect --> ECU is defect, reprogram ECU and if necessary replace it

Others Error Properties
Priority 4, not self healing, as measured value a - will be showed.

HWEMonRcyLocked

Error Description
Internal hardware monitoring: the CPU of the ECU is reset and the cause is logged internally; no item will be created in error memory

Error Codes
DEUTZ: 143, Blink: 5-5-5, SPN: 523612,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
14: Special Instructions

Error Detection
Blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
A recovery occurred which is stored as protected

Corrective Action
Recoverey occured which is stored as protected
With parameter HWEMon_numRexxxxxxx the recovery nummer and the subsequent position can be identified.
See especially SW-Doku _rcy_auto.pdf

Others Error Properties
Priority 5, not self healing, as measured value a - will be showed.

HWEMonRcySuppressed

Error Description
Internal hardware monitoring: the CPU of the ECU is reset and the cause is logged internally; no item will be created in error memory

Error Codes
DEUTZ: 144, Blink: 5-5-5, SPN: 523612,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
14: Special Instructions

Error Detection
Blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
A recovery occurred which is not stored

Corrective Action
Recoverey occured which is stored as protected
With parameter HWEMon_numRexxxxxxx the recovery nummer and the subsequent position can be identified.
See especially SW-Doku _rcy_auto.pdf

Others Error Properties
Priority 5, not self healing, as measured value a - will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

HWEMonRcyVisible

Error Description
Internal hardware monitoring: the CPU of the ECU is reset and an item will be created in error memory

Error Codes
DEUTZ: 145, Blink: 5-5-5, SPN: 523612,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
14: Special Instructions

Error Detection
Blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
A recovery occurred which is visible in the error memory

Corrective Action
Recoverey occured which is stored as protected
With parameter HWEMon_numRexxxxxxx the recovery nummer and the subsequent position can be identified.
See especially SW-Doku _rcy_auto.pdf

Others Error Properties
Priority 5, not self healing, as measured value a - will be showed.

HWEMonUMaxSupply

Error Description
Internal hardware monitoring: the ECU detects an excess of the target range for the power supply of ist communication module

Error Codes
DEUTZ: 146, Blink: 5-5-5, SPN: 523612,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Overvoltage at CJ940, power supply voltage too high, ECU defective

Corrective Action
Check working voltage and if necessary correct it, Check ECU and if necessary replace it

Others Error Properties
Priority 4, not self healing, as measured value a - will be showed.

HWEMonUMinSupply

Error Description
Internal hardware monitoring: the ECU detects an undershooting of the target range for the power supply of ist communication module

Error Codes
DEUTZ: 147, Blink: 5-5-5, SPN: 523612,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Undervoltage at CJ940, power supply voltage too low, ECU defective

Corrective Action
Check working voltage and if necessary correct it, Check ECU and if necessary replace it

Others Error Properties
Priority 4, not self healing, as measured value a - will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

IATSCD

Error Description
Charge air temperature sensor: the voltage of sensor measured by ECU is out of the target range or the received value of temperature via CAN is defective

Error Codes
DEUTZ: 149, Blink: 1-2-8, SPN: 105,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
2: data stream is defective
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, sensor defective, connection cable demaged, CAN bus wrong cabled, wiring demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check cabling, LDF6T-sensor not working, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it, Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 4, self healing, as measured value a default value will be showed.

IATSCDSysReac

Error Description
Charge air temperature: die charge air temperature calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 150, Blink: 2-3-3, SPN: 105,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Above target range with system reaction, air system demaged, sensor defective, connection cable demaged

Corrective Action
Check construction of LDF6T , check suction parts, check air system and if necessary repair it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

InjVlvBnk1A

Error Description
Injector cylinder bank 1: the current drain measured by ECU is above the target range

Error Codes
DEUTZ: 153, Blink: 1-5-1, SPN: 523350,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
13: out of calibrated range
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit (cylinder bank 1), injector defective, connection cable demaged

Corrective Action
Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

InjVlvBnk1B

Error Description

Injector cylinder bank 1: the current drain measured by ECU is underneath the target range

Error Codes

DEUTZ: 154, Blink: 1-5-1, SPN: 523351,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break (cylinder bank 1), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

InjVlvBnk2A

Error Description

Injector cylinder bank 2: the current drain measured by ECU is above the target range

Error Codes

DEUTZ: 155, Blink: 1-5-2, SPN: 523352,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
13: out of calibrated range
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Short circuit (cylinder bank 2), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

InjVlvBnk2B

Error Description

Injector cylinder bank 2: the current drain measured by ECU is underneath the target range

Error Codes

DEUTZ: 156, Blink: 1-5-2, SPN: 523353,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break (cylinder bank 2), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

InjVlvChipA

Error Description
Internal hardware monitoring: the ECU detects an error of ist injector high current output

Error Codes
DEUTZ: 157, Blink: 1-5-3, SPN: 523354,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
2: data stream is defective
14: Special Instructions
12: Defective component

Error Detection
Blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
High power stage Injector A, ECU defective

Corrective Action
If error is not removable, change ECU

Others Error Properties
Priority 5, not self healing, as measured value a current value will be showed.

InjVlvChipB

Error Description
Internal hardware monitoring: the ECU detects a disturbance in its injector high current output

Error Codes
DEUTZ: 158, Blink: 1-5-3, SPN: 523355,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
12: Defective component
12: Defective component

Error Detection
Blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
High power stage Injector B, ECU defective

Corrective Action
If error is not removable, change ECU

Others Error Properties
Priority 5, not self healing, as measured value a current value will be showed.

InjVlvCyl1A

Error Description
Injector 1: the current drain measured by ECU is above the target range

Error Codes
DEUTZ: 159, Blink: 1-5-4, SPN: 651,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
13: out of calibrated range
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit (cylinder 1), injector defective, connection cable demaged

Corrective Action
Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

InjVlvCyl1B

Error Description

Injector 1: the current drain measured by ECU is underneath the target range

Error Codes

DEUTZ: 160, Blink: 1-5-4, SPN: 651,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break (cylinder 1), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

InjVlvCyl2A

Error Description

Injector 2: the current drain measured by ECU is above the target range

Error Codes

DEUTZ: 161, Blink: 1-5-5, SPN: 652,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
13: out of calibrated range
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Short circuit (cylinder 2), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

InjVlvCyl2B

Error Description

Injector 2: the current drain measured by ECU is underneath the target range

Error Codes

DEUTZ: 162, Blink: 1-5-5, SPN: 652,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break (cylinder 2), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

InjVlvCyl3A

Error Description

Injector 3: the current drain measured by ECU is above the target range

Error Codes

DEUTZ: 163, Blink: 1-5-6, SPN: 653,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
13: out of calibrated range
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Short circuit (cylinder 3), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

InjVlvCyl3B

Error Description

Injector 3: the current drain measured by ECU is underneath the target range

Error Codes

DEUTZ: 164, Blink: 1-5-6, SPN: 653,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break (cylinder 3), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

InjVlvCyl4A

Error Description

Injector 4: the current drain measured by ECU is above the target range

Error Codes

DEUTZ: 165, Blink: 1-6-1, SPN: 654,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
13: out of calibrated range
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Short circuit (cylinder 4), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

InjVlvCyl4B

Error Description

Injector 4: the current drain measured by ECU is underneath the target range

Error Codes

DEUTZ: 166, Blink: 1-6-1, SPN: 654,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break (cylinder 4), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

InjVlvCyl5A

Error Description

Injector 5: the current drain measured by ECU is above the target range

Error Codes

DEUTZ: 167, Blink: 1-6-2, SPN: 655,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
13: out of calibrated range
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Short circuit (cylinder 5), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

InjVlvCyl5B

Error Description

Injector 5: the current drain measured by ECU is underneath the target range

Error Codes

DEUTZ: 168, Blink: 1-6-2, SPN: 655,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break (cylinder 5), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

InjVlvCyl6A

Error Description
Injector 6: the current drain measured by ECU is above the target range

Error Codes
DEUTZ: 169, Blink: 1-6-3, SPN: 656,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
13: out of calibrated range
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit (cylinder 6), injector defective, connection cable demaged

Corrective Action
Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

InjVlvCyl6B

Error Description
Injector 6: the current drain measured by ECU is underneath the target range

Error Codes
DEUTZ: 170, Blink: 1-6-3, SPN: 656,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break (cylinder 6), injector defective, connection cable demaged

Corrective Action
Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

InjVlvCyl7A

Error Description
Injector 7: the current drain measured by ECU is above the target range

Error Codes
DEUTZ: 171, Blink: 1-6-4, SPN: 657,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
13: out of calibrated range
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit (cylinder 7), injector defective, connection cable demaged

Corrective Action
Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

InjVlvCyl7B

Error Description

Injector 7: the current drain measured by ECU is underneath the target range

Error Codes

DEUTZ: 172, Blink: 1-6-4, SPN: 657,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break (cylinder 7), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

InjVlvCyl8A

Error Description

Injector 8: the current drain measured by ECU is above the target range

Error Codes

DEUTZ: 173, Blink: 1-6-5, SPN: 658,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
13: out of calibrated range
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Short circuit (cylinder 8), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

InjVlvCyl8B

Error Description

Injector 8: the current drain measured by ECU is underneath the target range

Error Codes

DEUTZ: 174, Blink: 1-6-5, SPN: 658,
FMI (Bit 0,1,2,3):
13: out of calibrated range
13: out of calibrated range
5: current to low or broken wire
13: out of calibrated range

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break (cylinder 8), injector defective, connection cable demaged

Corrective Action

Check cabling, check injectors and if necessary replace them, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 3, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

InjVlvErrDet

Error Description
Rail pressure monitoring: the monitoring of the rail pressure will be deactivated by ECU because of the activation of the function "compression test" by user

Error Codes
DEUTZ: 175, Blink: 5-5-5, SPN: 523370,
FMI (Bit 0,1,2,3):
14: Special Instructions
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
0 of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Compression test active: rail-pressure monitoring is going to be disabled

Corrective Action
not correct

Others Error Properties
Priority 1, not self healing, as measured value a 0 will be showed.

MeUnCD_ADC

Error Description
Fuel volume flow rate: the fuel volume rate calculated by ECU at outlet of the fuel metering unit is out of the target range

Error Codes
DEUTZ: 176, Blink: 1-3-5, SPN: 523615,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Flow rate outside target range

Corrective Action
Check cabling , if necessary check FCU, check fuel metering unit and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, not self healing, as measured value a current value will be showed.

MeUnCDNoLoad

Error Description
Valve at outlet of the fuel metering unit: the ECU detects no load or temperature excess of the ECU component for power supply of the valve

Error Codes
DEUTZ: 177, Blink: 1-3-5, SPN: 523615,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
5: current to low or broken wire
12: Defective component

Error Detection
Continuous light, 15s blink before shut off of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
wiring error or ECU output is switched off because of overtemperature, fuel metering unit defective, connection cable demaged

Corrective Action
Check cabling , if necessary check FCU, check fuel metering unit and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

MeUnCDSCBat

Error Description

Valve at outlet of the fuel metering unit: the current drain measured by ECU is above the target range

Error Codes

DEUTZ: 178, Blink: 1-3-5, SPN: 523615,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light, 15s blink before shut off of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Short circuit to Ubatt, fuel metering unit defective, connection cable demaged

Corrective Action

Check cabling , if necessary check FCU, check fuel metering unit and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, not self healing, as measured value a current value will be showed.

MeUnCDSCGnd

Error Description

Valve at outlet of the fuel metering unit: the current drain measured by ECU is above the target range

Error Codes

DEUTZ: 179, Blink: 1-3-5, SPN: 523615,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light, 15s blink before shut off of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Short circuit to ground, fuel metering unit defective, connection cable demaged

Corrective Action

Check cabling , if necessary check FCU, check fuel metering unit and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, not self healing, as measured value a current value will be showed.

MnRly1_SCB

Error Description

Main relay 1: the current drains measured by ECU is above the target range

Error Codes

DEUTZ: 182, Blink: 1-3-7, SPN: 2634,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Short circuit to Ubatt (relay 1), relay defective, connection cable demaged

Corrective Action

Check cabling, check ECU, check relay and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 3, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

MnRly1_SCG

Error Description
Main relay 1: the current drains measured by ECU is above the target range

Error Codes
DEUTZ: 183, Blink: 1-3-8, SPN: 2634,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit to ground (relay 1), relay defective, connection cable demaged

Corrective Action
Check cabling, check ECU, check relay and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, not self healing, as measured value a current value will be showed.

Montr

Error Description
Internal hardware monitoring: the ECU detects an disturbance in ist monitoring module (Wachtdog)

Error Codes
DEUTZ: 184, Blink: 1-3-9, SPN: 523420,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
14: Special Instructions

Error Detection
Blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Watchdog counter exceeds maximum, ECU defective

Corrective Action
If error is not removable, change ECU

Others Error Properties
Priority 5, not self healing, as measured value a - will be showed.

MRlyCD

Error Description
Main relay: during the switching off, main relay does not switch on within an allowed time

Error Codes
DEUTZ: 186, Blink: 2-6-1, SPN: 2634,
FMI (Bit 0,1,2,3):
7: Mechanical system not OK
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
EDC16: main relay not open in allowed time or main relay open too early; EDC7: main relay not open in allowed time or short circuit of main relay to ground; EDC16: main relay defective, connection cable demaged; generally: rapid shut-off of the ECU (without waiting till the end of the afterrun), ECU defective

Corrective Action
EDC16: check external main relay, check cabling EDC7: if error is not removable, change ECU, EDC16: Check main relay and if necessary replace it, check connection cable and if necessary repair or replace it; both: if error is not removable, change ECU

Others Error Properties
Priority 3, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

MRlyCDMnRly2

Error Description
Main relay 2 (in ECU): during the switching off, main relay does not switch on within an allowed time

Error Codes
DEUTZ: 187, Blink: 2-6-1, SPN: 563,
FMI (Bit 0,1,2,3):
7: Mechanical system not OK
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
rapid shut-off of the ECU (without waiting till the end of the afterrun), ECU defective

Corrective Action
If error not removable, change ECU

Others Error Properties
Priority 3, not self healing, as measured value a current value will be showed.

MRlyCDMnRly3

Error Description
Main relay 3 (in ECU): during the switching off, main relay does not switch on within an allowed time

Error Codes
DEUTZ: 188, Blink: 2-6-1, SPN: 2634,
FMI (Bit 0,1,2,3):
7: Mechanical system not OK
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Short circuit to ground or emergency shut-off (relay 3 internal), rapid shut-off of the ECU (without waiting till the end of the afterrun), ECU defective

Corrective Action
Check cabling, check ECU, if error not removable, change ECU

Others Error Properties
Priority 3, not self healing, as measured value a current value will be showed.

MSSCD1

Error Description
Multi state switch 1: the voltage measured by ECU is out of the target range or the swith setting is not plausible

Error Codes
DEUTZ: 189, Blink: 1-4-3, SPN: 523450,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, input voltage outside target range (switch 1), switch defective, connection cable demaged

Corrective Action
Check cabling and sensor, check switch and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

MSSCD2

Error Description
Multi state switch 2: the voltage measured by ECU is out of the target range or the swith setting is not plausible

Error Codes
DEUTZ: 190, Blink: 1-4-3, SPN: 523451,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, input voltage outside target range (switch 2), switch defective, connection cable demaged

Corrective Action
Check cabling and sensor, check switch and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a default value will be showed.

MSSCD3

Error Description
Multi state switch 3: the voltage measured by ECU is out of the target range or the swith setting is not plausible

Error Codes
DEUTZ: 191, Blink: 1-4-3, SPN: 523452,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, input voltage outside target range (switch 3), switch defective, connection cable demaged

Corrective Action
Check cabling and sensor, check switch and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a default value will be showed.

NetMngCANAOff

Error Description
CAN bus A: the ECU is not allowed to send messages, because the status "BusOff" is detected

Error Codes
DEUTZ: 192, Blink: 2-7-1, SPN: 639,
FMI (Bit 0,1,2,3):
14: Special Instructions
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, off-state (CAN bus A), CAN bus deactivated, connection cable demaged

Corrective Action
Check cabling of CAN bus and if necessary repair it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a 0 will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

NetMngCANBOff

Error Description
CAN bus B: the ECU is not allowed to send messages, because the status "BusOff" is detected

Error Codes
DEUTZ: 193, Blink: 2-7-1, SPN: 1231,
FMI (Bit 0,1,2,3):
14: Special Instructions
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, off-state (CAN bus B), CAN bus deactivated, connection cable demaged

Corrective Action
Check cabling of CAN bus and if necessary repair it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a 0 will be showed.

NetMngCANCOff

Error Description
CAN bus C: the ECU is not allowed to send messages, because the status "BusOff" is detected

Error Codes
DEUTZ: 194, Blink: 2-7-1, SPN: 1235,
FMI (Bit 0,1,2,3):
14: Special Instructions
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, off-state (CAN bus C), CAN bus deactivated, connection cable demaged

Corrective Action
Check cabling of CAN bus and if necessary repair it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a 0 will be showed.

OPLpCD

Error Description
Warning lamp for oil level: the current drain measured by ECU is out of the target range or the maximum temperature of the ECU component for power supply of the lamp is exceeded

Error Codes
DEUTZ: 195, Blink: 1-3-5, SPN: 705,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, lamp defective, connection cable demaged

Corrective Action
Check cabling and load, check lamp and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

OPSCD

Error Description
Oil pressure sensor: the voltage of sensor measured by ECU is out of the target range or the received value of oil pressure via CAN is implausible (Oil pressure is above the target range with higher oil temperature at the same time)

Error Codes
DEUTZ: 196, Blink: 2-2-4, SPN: 100,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
2: data stream is defective
0: data valid, but above normal working area

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, sensor defective, connection cable demaged, CAN bus wrong cabled, wiring demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check cabling, if sensor not working, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it, Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 4, self healing, as measured value a default value will be showed.

OPSCD1

Error Description
Oil pressure: the oil pressure calculated by ECU is implausibly low

Error Codes
DEUTZ: 197, Blink: 2-3-1, SPN: 100,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
1: data valid, but below normal working area

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Oil pressure implausible low, sensor defective, connection cable demaged

Corrective Action
Check cabling, if sensor not working, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a current value will be showed.

OPSCDSysReacHi

Error Description
Oil pressure: the oil pressure calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 198, Blink: 2-3-1, SPN: 100,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Above target range, oil volume too large, sensor defective, oil pump defective, connection cable demaged

Corrective Action
Check oil level and if necessary correct it, check oil pump and if necessary replace it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

OPSCDSysReacLo

Error Description

Oil pressure: the oil pressure calculated by ECU is underneath the target range; the ECU activates a system reaction

Error Codes

DEUTZ: 199, Blink: 2-3-1, SPN: 100,
FMI (Bit 0,1,2,3):
1: data valid, but below normal working area
1: data valid, but below normal working area
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Below target range, oil volume too small, sensor defective, oil pump defective, connection cable demaged

Corrective Action

Check oil level and if necessary correct it, check oil pump and if necessary replace it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

OSwCD

Error Description

Bridgeover switch: the ECU receives a permanent signal

Error Codes

DEUTZ: 200, Blink: 1-4-5, SPN: 1237,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
2: data stream is defective

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Switch is blocked, taster locked, connection cable demaged

Corrective Action

Check cabling, if sensor not working, check switch and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 2, self healing, as measured value a current value will be showed.

OTSCD

Error Description

Oil temperature sensor: the voltage of sensor measured by ECU is out of the target range; the oil temperature calculated by ECU is implausible compared with coolant temperature or the received value via CAN is defective

Error Codes

DEUTZ: 201, Blink: 1-4-4, SPN: 175,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
2: data stream is defective
2: data stream is defective

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Cable break or short circuit, sensor defective, connection cable demaged

Corrective Action

Check cabling, if sensor not working, check switch and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties

Priority 4, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

OTSCDSysReac

Error Description
Oil temperature: the oil temperature calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 203, Blink: 1-4-4, SPN: 175,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Above target range with system reaction, oil volume too small, oil loop disturbed, sensor defective, connection cable demaged

Corrective Action
Check cycle cooling system and compressor, check oil level and if necessary correct it, check sensor and if necessary replace it, check oil loop and if necessary repair it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

PRVMon

Error Description
Rail pressure relief valve: is open, will be forced to open, the forced-open failed

Error Codes
DEUTZ: 208, Blink: 1-4-6, SPN: 523470,
FMI (Bit 0,1,2,3):
14: Special Instructions
2: data stream is defective
12: Defective component
11: Errormode not identifiable

Error Detection
Continuous light, 15s blink before shut off of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Rail pressure relief valve open or forced open abortive (interpretation of the rail pressure gradient), operating voltage too low, rail pressure sensor defective, fuel metering unit defective, rail pressure relief valve defective, air in fuel system

Corrective Action
Check working voltage and if necessary correct it, check rail-pressure sensor and if necessary replace it, check FCU and if necessary replace it, check rail pressure relief valve and if necessary replace it, bleed the fuel-system

Others Error Properties
Priority 4, not self healing, as measured value a current value will be showed.

RailCD

Error Description
Rail pressure sensor: the voltage of sensor measured by ECU is out of the target range

Error Codes
DEUTZ: 209, Blink: 1-4-7, SPN: 157,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light, 15s blink before shut off of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, sensor defective, connection cable demaged

Corrective Action
Check cabling, check rail pressure sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, not self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

RailCDOfsTst

Error Description
Rail pressure sensor: the change of the voltage measured by ECU during the engine start or the after-run is out of the target range

Error Codes
DEUTZ: 210, Blink: 1-4-7, SPN: 157,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
1: data valid, but below normal working area
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Deviation of signal during start or after-run above target range, sensor defective

Corrective Action
Replace sensor

Others Error Properties
Priority 2, self healing, as measured value a current value will be showed.

RailMeUn0

Error Description
Rail pressure: the fuel pressure in rail calculated by ECU is above the target range which is dependant on the engine speed

Error Codes
DEUTZ: 211, Blink: 1-3-4, SPN: 523613,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
1) Leakage in high pressure system (external) ,
2) Leakage at rail pressure relief valve (internal),
3) Needle clampt in open position,
4) Abrasion at injector,
5) Abrasion at high pressure pump,
6) Too low primary pressure on low pressure side, sensor defective, fuel system disturbed

Corrective Action
(A) Check for leakage
(B) Chek fuel-primary pressure
(C) Change components, check sensor and if necessary replace it, check fuel system and if necessary repair it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

RailMeUn1

Error Description
Rail pressure: the fuel pressure in rail calculated by ECU is above the target range which is dependant on the volume flow rate

Error Codes
DEUTZ: 212, Blink: 1-3-4, SPN: 523613,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
1) Leakage in high pressure system (external) ,
2) Leakage at rail pressure relief valve (internal),
3) Needle clampt in open position,
4) Abrasion at injector,
5) Abrasion at high pressure pump,
6) Too low primary pressure on low pressure side, sensor defective, fuel system disturbed

Corrective Action
(A) Check for leakage
(B) Chek fuel-primary pressure
(C) Change components, check sensor and if necessary replace it, check fuel system and if necessary repair it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

RailMeUn2

Error Description

Rail pressure: the fuel pressure in rail calculated by ECU is underneath the target range which is dependant on the engine speed

Error Codes

DEUTZ: 213, Blink: 1-3-4, SPN: 523613,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

1) No power supply in FCU,
2) ZME clamped in open position,
3) Too high pressure nach Nullförderdrossel (FCU),
4) Nullförderdrossel clogged,
5) Too high primary pressure on low pressure side, sensor defective, fuel system disturbed

Corrective Action

(A) Check return-pressure FCU
(B) Check flow-pressure
(C) Change FCU, check sensor and if necessary replace it, check fuel system and if necessary repair it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

RailMeUn3

Error Description

Rail pressure: the fuel pressure in rail calculated by ECU is underneath the target range which is dependant on the volume flow rate

Error Codes

DEUTZ: 214, Blink: 1-3-4, SPN: 523613,
FMI (Bit 0,1,2,3):
1: data valid, but below normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

1) Leakage in high pressure system (external) ,
2) Leakage at rail pressure relief valve (internal),
3) Needle clampt in open position,
4) Abrasion at injector,
5) Abrasion at high pressure pump,
6) Too low primary pressure on low pressure side, sensor defective, fuel system disturbed

Corrective Action

(A) Check for leakage
(B) Chek fuel-primary pressure
(C) Change components, check sensor and if necessary replace it, check fuel system and if necessary repair it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

RailMeUn4

Error Description

Rail pressure: the fuel pressure in rail calculated by ECU is above the absolute target range

Error Codes

DEUTZ: 215, Blink: 1-3-4, SPN: 523613,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection

Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

1) No power supply in FCU,
2) ZME clamped in open position,
3) Too high pressure nach Nullförderdrossel (FCU),
4) Nullförderdrossel clogged,
5) Too high primary pressure on low pressure side, sensor defective, fuel system disturbed

Corrective Action

(A) Check return-pressure FCU
(B) Check flow-pressure
(C) Change FCU, check sensor and if necessary replace it, check fuel system and if necessary repair it

Others Error Properties

Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

RailMeUn7

Error Description
Rail pressure: the fuel pressure in rail calculated by ECU is implausible compared with the setpoint setting of the fuel metering unit

Error Codes
DEUTZ: 216, Blink: 1-3-4, SPN: 523613,
FMI (Bit 0,1,2,3):
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light or blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
1) Leakage in high pressure system (external) ,
2) Leakage at rail pressure relief valve (internal),
3) Needle clampt in open position,
4) Abrasion at injector,
5) Abrasion at high pressure pump,
6) Too low primary pressure on low pressure side, sensor defective, fuel system disturbed

Corrective Action
(A) Check for leakage
(B) Chek fuel-primary pressure
(C) Change components, check sensor and if necessary replace it, check fuel system and if necessary repair it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

SOPTst

Error Description
Internal hardware monitoring: the ECU finds an disturbance in the redundant switch off path through a test during the ramp up phase

Error Codes
DEUTZ: 218, Blink: 1-4-9, SPN: 523490,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
12: Defective component
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Test of redundant shut-off paths

Corrective Action
Could be triggered by over/undervoltage or external Watchdog

Others Error Properties
Priority 4, not self healing, as measured value a - will be showed.

SSpMon1

Error Description
Internal hardware monitoring: the ECU detects a deviation of the target range of the power supply voltage of sensor 1

Error Codes
DEUTZ: 219, Blink: 2-8-2, SPN: 1079,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
5V sensor supply voltage 1 outside target range, operating voltage too high or to low, connection cable demaged, ECU defective

Corrective Action
If error not removable, change ECU, check cabling of external components, check working voltage and if necessary correct it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

SSpMon2

Error Description
Internal hardware monitoring: the ECU detects a deviation of the target range of the power supply voltage of sensor 2

Error Codes
DEUTZ: 221, Blink: 2-8-2, SPN: 1080,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
5V sensor supply voltage 2 outside target range, operating voltage too high or to low, connection cable demaged, ECU defective

Corrective Action
If error not removable, change ECU, check cabling of external components, check working voltage and if necessary correct it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

SSpMon3

Error Description
Internal hardware monitoring: the ECU detects a deviation of the target range of the power supply voltage of sensor 3

Error Codes
DEUTZ: 222, Blink: 2-8-2, SPN: 523601,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Wrong voltage of internal 5V reference source 3, operating voltage too high or too low, connection cable demaged, ECU defective

Corrective Action
If error not removable, change ECU, check cabling of external components, check working voltage and if necessary correct it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, self healing, as measured value a current value will be showed.

StrtCDHS

Error Description
Start relay (high side power stage): the current drain measured by ECU is above the target range

Error Codes
DEUTZ: 223, Blink: 5-1-2, SPN: 677,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Start relay (high side): short circuit, relay defective, conncection cable defective

Corrective Action
Check cabling and start relay and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

StrtCDLS

Error Description
start relay (low side power stage): the current drain measured by ECU is out of the target range

Error Codes
DEUTZ: 224, Blink: 5-1-2, SPN: 677,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Start relay (low side): cable break or short circuit, disabled by ECU, relay defective, connection cable demaged

Corrective Action
Check cabling and start relay and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a default value will be showed.

SysLamp

Error Description
Error lamp (diagnositic lamp): the current drain measured by ECU is out of the target range or the maximum permissble temperature of the ECU component for power supply of the lamp is exceeded

Error Codes
DEUTZ: 225, Blink: 5-1-3, SPN: 624,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
5: current to low or broken wire
2: data stream is defective

Error Detection
- of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break or short circuit, disabled by ECU, lamp defective, connection cable demaged

Corrective Action
Check cabling and load, check lamp and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, not self healing, as measured value a nominal value of diagnostic lamp will be showed.

T15CD

Error Description
Terminal 15: ECU receives no signal

Error Codes
DEUTZ: 226, Blink: 5-1-4, SPN: 158,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Ignition ON not detected, ignition switch defective, connection cable demaged

Corrective Action
Check cabling, if sensor not working, check ignition switch and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, not self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

T50CD

Error Description
Terminal 50: ECU receives a permanent signal

Error Codes
DEUTZ: 227, Blink: 5-1-5, SPN: 523550,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Engine start switch stuck, start switch clamped, connection cable demaged

Corrective Action
Check cabling, if sensor not working, check start switch and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 1, not self healing, as measured value a current value will be showed.

TPUMon

Error Description
Internal hardware monitoring: ECU detects a deviation between the signal of time module and the system time

Error Codes
DEUTZ: 228, Blink: 5-5-5, SPN: 523550,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
2: data stream is defective

Error Detection
Blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Time processing unit (TPU) defective, ECU defective

Corrective Action
If error not removable, change ECU

Others Error Properties
Priority 5, not self healing, as measured value a - will be showed.

VSSCD1

Error Description
Vehicle speed: over the maximum, signal invalid or implausible compared with the injection quantity and the engine speed, offset factors unlearned

Error Codes
DEUTZ: 232, Blink: 5-2-1, SPN: 84,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
12: Defective component
8: unusual frequency, pulse or period.
14: Special Instructions

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Speed above target range, signal invalid or implausible compared to injection volume and engine speed, distance factor not learned, sensor defective, connection cable demaged

Corrective Action
Check cabling, if sensor not working, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

WdCom

Error Description
Internal hardware monitoring: the ECU detects a disturbance in internal communication

Error Codes
DEUTZ: 235, Blink: 5-5-5, SPN: 523600,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component

Error Detection
Blink of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Communication disturbed, ECU defective

Corrective Action
If error not to removable, change ECU

Others Error Properties
Priority 5, not self healing, as measured value a - will be showed.

PRVMonSysReac

Error Description
Rail pressure relief valve: is open, will be forced to open, the forced-open failed; the ECU activates a system reaction

Error Codes
DEUTZ: 236, Blink: 1-4-6, SPN: 523470,
FMI (Bit 0,1,2,3):
12: Defective component
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light, 15s blink before shut off of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Rail pressure relief valve open or forced open abortive (interpretation of the rail pressure gradient), power supply voltage too low, rail pressure sensor defective, fuel metering unit defective, rail pressure relief valve defective, air in fuel system

Corrective Action
Check working voltage and if necessary correct it, check rail-pressure sensor and if necessary replace it, check FCU and if necessary replace it, check rail pressure relief valve and if necessary replace it, bleed the fuel-system

Others Error Properties
Priority 4, not self healing, as measured value a current value will be showed.

APPCDSwtnSel

Error Description
Controller mode switch: the signal received by ECU is defective or implausible.

Error Codes
DEUTZ: 237, Blink: 2-4-2, SPN: 523006,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
2: data stream is defective
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Cable break, signal implausible, switch defective, connection cable demaged

Corrective Action
Check switch and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 2, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMng_TORxEngPress

Error Description
CAN message EngPress (Engine Pressure): the message cannot be received by ECU

Error Codes
DEUTZ: 238, Blink: 2-1-5, SPN: 523007,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Missing message "RxEngPress" = engine pressure; CAN bus wrong cabled, wiring is damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus scheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 1, self healing, as measured value a default value will be showed.

MplCtl

Error Description
Data monitoring: the torque curve does not match the specification

Error Codes
DEUTZ: 239, Blink: 4-2-4, SPN: 523008,
FMI (Bit 0,1,2,3):
1: data valid, but below normal working area
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
0 of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Manipulation of Topcurve detected, data manipulation, too slow changed curve

Corrective Action

Others Error Properties
Priority 3, not self healing, as measured value a 0 will be showed.

OLSCD

Error Description
Oil level sensor: the voltage of sensor measured by ECU is out of the target range or the received value of oil level via CAN is defective or the signal value is implausible

Error Codes
DEUTZ: 240, Blink: 2-1-1, SPN: 98,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
2: data stream is defective
2: data stream is defective

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Voltage outside target range, CAN signal error, signal implausible, sensor defective, connection cable demaged, CAN bus wrong cabled, wiring demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check cabling, if sensor not working, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it, Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, chec

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

DEUTZ ®

OLSCDSysReacHi

Error Description
Oil level: the oil level calculated by ECU is above the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 241, Blink: 2-5-1, SPN: 98,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Oil level too high with system reaction, oil volume too large, sensor defective, connection cable demaged, CAN data error

Corrective Action
Check oil level and if necessary correct it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

ADPSCDAna

Error Description
Air filter differential pressure sensor: the voltage of sensor measured by ECU is out of the target range

Error Codes
DEUTZ: 242, Blink: 1-3-6, SPN: 107,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Voltage outside target range, sensor defective, connection cable demaged

Corrective Action
Check cable harness, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

OLSCDSysReacLo

Error Description
Oil level: the oil level calculated by ECU is underneath the target range; the ECU activates a system reaction

Error Codes
DEUTZ: 243, Blink: 2-5-2, SPN: 98,
FMI (Bit 0,1,2,3):
1: data valid, but below normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Oil level too low with system reaction, oil volume too small, sensor defective, connection cable demaged, CAN data error

Corrective Action
Check oil level and if necessary correct it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

Others Error Properties
Priority 4, self healing, as measured value a current value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

PrvMonWear

Error Description
Rail pressure relief valve: is open more frequently or for a longer time than what the technical specification allows

Error Codes
DEUTZ: 244, Blink: 2-5-3, SPN: 523009,
FMI (Bit 0,1,2,3):
9: Abnormal update rated
10: Abnormal rate of change
14: Special Instructions
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
Rail pressure relief valve open more frequently than the technical specification allowed, rail pressure relief valve open longer than the technical specification allowed, rail pressure relief valve defective

Corrective Action
Change rail pressure relief valve and remove the error through Serdia command

Others Error Properties
Priority 3, not self healing, as measured value a current value will be showed.

RailMeUn8

Error Description
Wenn the engine is in idle running, the metering unit compares its output and rail pressure with the default value (Parameter) and calculates a correction factor-it calibrates itself then

Error Codes
DEUTZ: 245, Blink: 2-5-4, SPN: 523010,
FMI (Bit 0,1,2,3):
0: data valid, but above normal working area
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Corrective Action

Others Error Properties
Priority 3, not self healing, as measured value a current value will be showed.

FISys_FLPFMSysReac

Error Description

Error Codes
DEUTZ: 246, Blink: 5-4-1, SPN: 523650,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Corrective Action

Others Error Properties
Priority 4, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software
P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FISys_FTSFMSysReac

Error Description

Error Codes
DEUTZ: 247, Blink: 5-4-2, SPN: 523651,
FMI (Bit 0,1,2,3):
2: data stream is defective
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Corrective Action

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

FISys_FlushStateEngineOff

Error Description

Error Codes
DEUTZ: 248, Blink: 5-4-3, SPN: 523652,
FMI (Bit 0,1,2,3):
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Corrective Action

Others Error Properties
Priority 3, self healing, as measured value a - will be showed.

FISys_RapeOilHeatEx

Error Description

Error Codes
DEUTZ: 249, Blink: 5-4-4, SPN: 523653,
FMI (Bit 0,1,2,3):
2: data stream is defective
11: Errormode not identifiable
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

Corrective Action

Others Error Properties
Priority 3, self healing, as measured value a - will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngDieselLvl

Error Description
CAN message DieselLvl (Diesel tank level): the message can not be received by ECU

Error Codes
DEUTZ: 250, Blink: 5-4-5, SPN: 523654,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

FrmMngFuelTemp

Error Description
CAN message FuelTemp (Fuel Temperature): the message can not be received by ECU

Error Codes
DEUTZ: 251, Blink: 5-4-6, SPN: 523655,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

FrmMngLowPressureDiesel

Error Description
CAN message LowPressureDiesel (Low fuel pressure diesel): the message can not be received by ECU

Error Codes
DEUTZ: 252, Blink: 5-4-7, SPN: 523656,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngRapeOilIn

Error Description
CAN messageRapeOilIn (Rape oil input): the message can not be received by ECU

Error Codes
DEUTZ: 253, Blink: 5-6-1, SPN: 523657,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

FrmMngRapeOilLvl

Error Description
CAN message RapeOilLvl (Rape oil tank level): the message can not be received by ECU

Error Codes
DEUTZ: 254, Blink: 5-6-2, SPN: 523658,
FMI (Bit 0,1,2,3):
3: Voltage to high or short circuit to +Ubatt
4: Voltage to low or short circuit to -Ubatt
11: Errormode not identifiable
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

FrmMngRapeOilVlv1

Error Description
CAN message OilVlv1 (Valve 1): the message can not be received by ECU

Error Codes
DEUTZ: 255, Blink: 5-6-3, SPN: 523659,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngRapeOilVlv2

Error Description

CAN message OilVlv2 (Valve 2): the message can not be received by ECU

Error Codes

DEUTZ: 256, Blink: 5-6-4, SPN: 523660,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 3, self healing, as measured value a default value will be showed.

FrmMngRapeOilVlv3

Error Description

CAN message OilVlv3 (Valve 3): the message can not be received by ECU

Error Codes

DEUTZ: 257, Blink: 5-6-5, SPN: 523661,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 3, self healing, as measured value a default value will be showed.

FrmMngRapeOilVlv4

Error Description

CAN message OilVlv4 (Valve 4): the message can not be received by ECU

Error Codes

DEUTZ: 258, Blink: 5-6-6, SPN: 523662,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 3, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngRapeOilVlv5

Error Description

CAN message OilVlv5 (Valve 5): the message can not be received by ECU

Error Codes

DEUTZ: 259, Blink: 5-6-7, SPN: 523663,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 3, self healing, as measured value a default value will be showed.

FrmMngSTIN1RX

Error Description

CAN message STIN1 (State Inputs 1): the message can not be received by ECU

Error Codes

DEUTZ: 260, Blink: 5-6-8, SPN: 523664,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 3, self healing, as measured value a default value will be showed.

FrmMngStEKP

Error Description

CAN message StEKP (State Electrical Fuel Supply Pump): the message can not be received by ECU

Error Codes

DEUTZ: 261, Blink: 5-6-9, SPN: 523665,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection

Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason

CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action

Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties

Priority 3, self healing, as measured value a default value will be showed.

DTC - List
Diagnosis- and Fehlercodes

Referenced ECU Software

P490_: 220, 310, 501
P491_: 220, 310, 400, 501

P492_: 213
P513_: 214, 300

FrmMngStLmp

Error Description
CAN message StLmp (State Lamp): the message can not be received by ECU

Error Codes
DEUTZ: 262, Blink: 5-7-1, SPN: 523666,
FMI (Bit 0,1,2,3):
11: Errormode not identifiable
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed.

FrmMngStOutRx

Error Description
CAN message StOut (State Outputs): the message can not be received by ECU

Error Codes
DEUTZ: 263, Blink: 5-7-2, SPN: 523667,
FMI (Bit 0,1,2,3):
12: Defective component
11: Errormode not identifiable
12: Defective component
11: Errormode not identifiable

Error Detection
Continuous light of the fault lamp, registered in the error memory of the ECU.

Possible Error Reason
CAN bus wrong cabled, wiring is demaged, receiver (sender of the message) work inaccurately, parametering inaccurate

Corrective Action
Check CAN Bus cabling (Bus sheduling, polarity, short circuit, power interrupt), test protocol of receiver, check CAN functional range

Others Error Properties
Priority 3, self healing, as measured value a default value will be showed