

**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 |
|----------------------------------|-------|--------|-------|
| <a href="#">AirFitSysReac</a>    | 11    | 107    | 1-3-6 |
| <a href="#">APP1</a>             | 12    | 91     | 2-2-6 |
| <a href="#">APPPwm</a>           | 14    | 91     | 2-2-2 |
| <a href="#">APPPwmPer</a>        | 15    | 91     | 2-2-2 |
| <a href="#">APSCD</a>            | 16    | 108    | 2-9-2 |
| <a href="#">ArHt1</a>            | 17    | 729    | 2-6-3 |
| <a href="#">ArHt2</a>            | 18    | 730    | 2-6-3 |
| <a href="#">ArHtCD_NoLd</a>      | 19    | 676    | 2-6-3 |
| <a href="#">ArHtCD_RlyErr</a>    | 20    | 676    | 2-6-3 |
| <a href="#">BattCD</a>           | 22    | 168    | 3-1-8 |
| <a href="#">BattCDSysReac</a>    | 23    | 168    | 3-1-8 |
| <a href="#">BIPCyl1</a>          | 24    | 523561 | 5-3-1 |
| <a href="#">BIPCyl2</a>          | 25    | 523562 | 5-3-2 |
| <a href="#">BIPCyl3</a>          | 26    | 523563 | 5-3-3 |
| <a href="#">BIPCyl4</a>          | 27    | 523564 | 5-3-4 |
| <a href="#">BIPCyl5</a>          | 28    | 523565 | 5-3-5 |
| <a href="#">BIPCyl6</a>          | 29    | 523566 | 5-3-6 |
| <a href="#">BIPCyl7</a>          | 30    | 523567 | 5-3-7 |
| <a href="#">BIPCyl8</a>          | 31    | 523568 | 5-3-8 |
| <a href="#">BPSCD</a>            | 32    | 102    | 2-2-3 |
| <a href="#">BPSCDSysReac</a>     | 33    | 102    | 2-2-3 |
| <a href="#">CLSCDSysReac</a>     | 37    | 111    | 2-3-5 |
| <a href="#">CmbChbMisfire1</a>   | 38    | 1323   | 2-4-1 |
| <a href="#">CmbChbMisfire2</a>   | 39    | 1324   | 2-4-1 |
| <a href="#">CmbChbMisfire3</a>   | 40    | 1325   | 2-4-1 |
| <a href="#">CmbChbMisfire4</a>   | 41    | 1326   | 2-4-1 |
| <a href="#">CmbChbMisfire5</a>   | 42    | 1327   | 2-4-1 |
| <a href="#">CmbChbMisfire6</a>   | 43    | 1328   | 2-4-1 |
| <a href="#">CmbChbMisfire7</a>   | 44    | 1450   | 2-4-1 |
| <a href="#">CmbChbMisfire8</a>   | 45    | 1451   | 2-4-1 |
| <a href="#">CmbChbMisfireMul</a> | 46    | 1322   | 2-4-1 |
| <a href="#">CmbChbSysReac</a>    | 47    | 1346   | 2-4-1 |
| <a href="#">CoEngShOffDemlgr</a> | 48    | 1109   | 3-4-1 |
| <a href="#">CRERCD</a>           | 52    | 1072   | 5-2-8 |
| <a href="#">CSLpCD</a>           | 53    | 1081   | 3-2-8 |

| Error Path                        | DEUTZ | SPN    | Blink |
|-----------------------------------|-------|--------|-------|
| <a href="#">CTLpCD</a>            | 54    | 704    | 1-2-3 |
| <a href="#">CTSCD</a>             | 55    | 110    | 2-2-5 |
| <a href="#">CTSCDSysReac</a>      | 56    | 110    | 2-3-2 |
| <a href="#">Dummy1CD_Max</a>      | 57    | 701    | 1-0-0 |
| <a href="#">Dummy1CD_Min</a>      | 58    | 701    | 1-0-0 |
| <a href="#">Dummy1CD_SigNpl</a>   | 59    | 701    | 1-0-0 |
| <a href="#">Dummy2CD_Max</a>      | 60    | 702    | 1-0-0 |
| <a href="#">Dummy2CD_Min</a>      | 61    | 702    | 1-0-0 |
| <a href="#">Dummy2CD_SigNpl</a>   | 62    | 702    | 1-0-0 |
| <a href="#">EGRCD_Max</a>         | 69    | 2791   | 4-1-4 |
| <a href="#">EGRCD_Min</a>         | 70    | 2791   | 4-1-4 |
| <a href="#">EGRCD_SigNpl</a>      | 71    | 2791   | 4-1-5 |
| <a href="#">EGRCDIntEGR</a>       | 72    | 2791   | 4-1-6 |
| <a href="#">EngCDTrqCalcOut</a>   | 74    | 923    | 5-5-5 |
| <a href="#">EngMBackUp</a>        | 75    | 190    | 2-1-2 |
| <a href="#">EngMCA1</a>           | 76    | 190    | 2-1-2 |
| <a href="#">EngMCR1</a>           | 77    | 190    | 2-1-2 |
| <a href="#">EngMOfsCaSCrS</a>     | 78    | 190    | 2-1-3 |
| <a href="#">EngPrtSysReacFOC</a>  | 79    | 190    | 2-1-4 |
| <a href="#">EngPrtSysReacORC</a>  | 80    | 190    | 2-1-4 |
| <a href="#">ESLpCD</a>            | 81    | 703    | 1-4-2 |
| <a href="#">ExFICD</a>            | 82    | 1074   | 2-1-9 |
| <a href="#">FanCD</a>             | 83    | 975    | 2-3-8 |
| <a href="#">FanCDEval</a>         | 85    | 1639   | 2-3-8 |
| <a href="#">FanCDSysReac</a>      | 86    | 523602 | 2-3-8 |
| <a href="#">FIFCD</a>             | 87    | 97     | 2-2-8 |
| <a href="#">FIFCD_WtLvl</a>       | 89    | 97     | 2-2-8 |
| <a href="#">FIPSCD</a>            | 90    | 94     | 2-1-6 |
| <a href="#">FIPSCDSysReac</a>     | 91    | 94     | 2-1-6 |
| <a href="#">FrmMngDecV1</a>       | 94    | 523239 | 5-2-6 |
| <a href="#">FrmMngFunModCtl</a>   | 95    | 523240 | 5-2-7 |
| <a href="#">FrmMngTOEngPrt</a>    | 106   | 523212 | 3-3-3 |
| <a href="#">FrmMngTOPrHtEnCmd</a> | 110   | 523216 | 3-3-7 |
| <a href="#">FrmMngTORxCCVS</a>    | 112   | 523218 | 1-1-1 |
| <a href="#">FrmMngTORxEngTemp</a> | 113   | 523604 | 1-1-2 |

| Error Path                          | DEUTZ | SPN    | Blink |
|-------------------------------------|-------|--------|-------|
| <a href="#">FrmMngTOSwtOut</a>      | 117   | 523238 | 1-1-5 |
| <a href="#">FrmMngTOTCO1</a>        | 118   | 523222 | 1-1-6 |
| <a href="#">FrmMngTOTSC1AE</a>      | 120   | 523605 | 1-1-8 |
| <a href="#">FrmMngTOTSC1AR</a>      | 121   | 523606 | 1-1-9 |
| <a href="#">FrmMngTOTSC1DE</a>      | 122   | 523607 | 1-1-8 |
| <a href="#">FrmMngTOTSC1DR</a>      | 123   | 523608 | 1-1-9 |
| <a href="#">FrmMngTOTSC1PE</a>      | 124   | 523609 | 1-1-8 |
| <a href="#">FrmMngTOTSC1TE</a>      | 125   | 898    | 1-1-8 |
| <a href="#">FrmMngTOTSC1TR</a>      | 126   | 520    | 1-1-9 |
| <a href="#">FrmMngTOTSC1VE</a>      | 127   | 523610 | 1-1-8 |
| <a href="#">FrmMngTOTSC1VR</a>      | 128   | 523611 | 1-1-9 |
| <a href="#">FrmMngTxTO</a>          | 131   | 523500 | 2-7-1 |
| <a href="#">FTSCD</a>               | 133   | 174    | 2-2-7 |
| <a href="#">FTSCDSysReac</a>        | 134   | 174    | 2-3-7 |
| <a href="#">GOTSCD</a>              | 136   | 523618 | 1-3-3 |
| <a href="#">GOTSCDSysReac</a>       | 137   | 523619 | 1-3-3 |
| <a href="#">HdThrt</a>              | 138   | 29     | 1-2-6 |
| <a href="#">HOTSCD</a>              | 139   | 1638   | 3-1-4 |
| <a href="#">HOTSCDSysReac</a>       | 140   | 1638   | 3-1-4 |
| <a href="#">HWEMonCom</a>           | 141   | 523617 | 5-5-5 |
| <a href="#">HWEMonEEPROM</a>        | 142   | 630    | 2-8-1 |
| <a href="#">HWEMonRcyLocked</a>     | 143   | 523612 | 5-5-5 |
| <a href="#">HWEMonRcySuppressed</a> | 144   | 523612 | 5-5-5 |
| <a href="#">HWEMonRcyVisible</a>    | 145   | 523612 | 5-5-5 |
| <a href="#">HWEMonUMaxSupply</a>    | 146   | 523612 | 5-5-5 |
| <a href="#">HWEMonUMinSupply</a>    | 147   | 523612 | 5-5-5 |
| <a href="#">IATSCDk</a>             | 149   | 105    | 1-2-8 |
| <a href="#">IATSCDSysReac</a>       | 150   | 105    | 2-3-3 |
| <a href="#">InjVlvBnk1A</a>         | 153   | 523350 | 1-5-1 |
| <a href="#">InjVlvBnk1B</a>         | 154   | 523351 | 1-5-1 |
| <a href="#">InjVlvCyl2A</a>         | 155   | 523352 | 1-5-2 |
| <a href="#">InjVlvBnk2B</a>         | 156   | 523353 | 1-5-2 |
| <a href="#">InjVlvChipA</a>         | 157   | 523354 | 1-5-3 |
| <a href="#">InjVlvChipB</a>         | 158   | 523355 | 1-5-3 |
| <a href="#">InjVlvCyl1A</a>         | 159   | 651    | 1-5-4 |

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Referenced ECU Software

P490\_: 220, 310, 501

P491\_: 220, 310, 400, 501

P492\_: 213

P513\_: 214, 300



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

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

| Error Path                                | DEUTZ | SPN    | Blink |
|-------------------------------------------|-------|--------|-------|
| <a href="#">RailMeUn8</a>                 | 245   | 523010 | 2-5-4 |
| <a href="#">FISys_FLPFMSysReac</a>        | 246   | 523650 | 5-4-1 |
| <a href="#">FISys_FTSFMSysReac</a>        | 247   | 523651 | 5-4-2 |
| <a href="#">FISys_FlushStateEngineOff</a> | 248   | 523652 | 5-4-3 |
| <a href="#">FISys_RapeOilHeatEx</a>       | 249   | 523653 | 5-4-4 |
| <a href="#">FrmMngDieselLvl</a>           | 250   | 523654 | 5-4-5 |
| <a href="#">FrmMngFuelTemp</a>            | 251   | 523655 | 5-4-6 |
| <a href="#">FrmMngLowPressureDiesel</a>   | 252   | 523656 | 5-4-7 |
| <a href="#">FrmMngRapeOilIn</a>           | 253   | 523657 | 5-6-1 |
| <a href="#">FrmMngRapeOilLvl</a>          | 254   | 523658 | 5-6-2 |
| <a href="#">FrmMngRapeOilVlv1</a>         | 255   | 523659 | 5-6-3 |
| <a href="#">FrmMngRapeOilVlv2</a>         | 256   | 523660 | 5-6-4 |
| <a href="#">FrmMngRapeOilVlv3</a>         | 257   | 523661 | 5-6-5 |
| <a href="#">FrmMngRapeOilVlv4</a>         | 258   | 523662 | 5-6-6 |
| <a href="#">FrmMngRapeOilVlv5</a>         | 259   | 523663 | 5-6-7 |
| <a href="#">FrmMngSTIN1RX</a>             | 260   | 523664 | 5-6-8 |
| <a href="#">FrmMngStEKP</a>               | 261   | 523665 | 5-6-9 |
| <a href="#">FrmMngStLmp</a>               | 262   | 523666 | 5-7-1 |
| <a href="#">FrmMngStOutRx</a>             | 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 damaged

#### 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 damaged

#### 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.

### APPWm

#### 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 damaged

#### 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.

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## Diagnosis- and Fehlercodes

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P490\_: 220, 310, 501

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### APPPwmPer

#### Error Description

digital accelerator pedal sensor (PWM): the frequency 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 damaged

#### Corrective Action

Check cabling, check accelerator 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 damaged

#### 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.

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## Diagnosis- and Fehlercodes

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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 damaged

#### 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 damaged

#### 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 damaged

#### 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.

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# 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 damaged, 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.

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## 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.

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## DTC - List

### Diagnosis- and Fehlercodes

Referenced ECU Software

P490\_: 220, 310, 501

P491\_: 220, 310, 400, 501

P492\_: 213

P513\_: 214, 300



#### BIPCyI5

##### 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.

#### BIPCyI6

##### 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.

#### BIPCyI7

##### 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.

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## 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 damaged

##### 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 damaged, sensor defective, onnection cable damaged

##### 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.

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# 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 damaged

#### 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 damaged

#### 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 damaged

#### 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.

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## 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 damaged

##### 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 damaged

##### 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 damaged

##### 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.

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## 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 damaged

##### 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 damaged

##### 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 damaged

##### 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.

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## 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 damaged

##### 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 damaged

##### 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.

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## 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 permissible 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: Error mode 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 damaged

##### Corrective Action

Check actuator 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 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 permissible 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 damaged

##### 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 damaged

##### 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.

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## 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 damaged

##### 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 damaged, cooling compressor dropped out, sensor defective, onnection cable damaged

##### 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 damaged

##### 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.

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# 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 damaged

#### 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 damaged, 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 damaged

#### 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.

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## 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 damaged

##### 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 damaged, 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 damaged

##### 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.

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# 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 damaged

#### 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 damaged

#### 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 damaged

#### 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.

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# 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 damaged

#### 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 damaged

#### 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 defective or missing, transmitter defective, connection cable damaged, 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.

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# 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 damaged, 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

#### 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.

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# 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 damaged

#### 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.

### ExFICD

#### 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 damaged

#### 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.

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## 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 damaged

##### 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 damaged, fan speed outside the target range

##### Corrective Action

Check sensor and if necessary replace it, check connection 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.

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# 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: Error mode not identifiable

11: Error mode 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 damaged

#### 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 separator

#### 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: Error mode not identifiable

11: Error mode 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 damaged

#### 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.

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# 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 damaged

#### 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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## 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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## 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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# 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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# 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: Error mode not identifiable

11: Error mode 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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: Error mode not identifiable

11: Error mode 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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: Error mode not identifiable

11: Error mode 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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# 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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## 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 damaged

##### 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 damaged

##### 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.

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# 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 damaged, CAN bus wrong cabled, wiring damaged, 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 shedding, 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, dependant 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 damaged

#### 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.

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# 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 damaged, CAN bus wrong cabled, wiring damaged, 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 shedding, 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, dependant 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 disturbance

#### 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.

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## 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

Recovery occurred which is stored as protected

With parameter HWEMon\_numRexxxxxxx the recovery number 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

Recovery occurred which is stored as protected

With parameter HWEMon\_numRexxxxxxx the recovery number 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.

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## 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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

Recovery occurred which is stored as protected

With parameter HWEMon\_numRexxxxxx the recovery number 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 its communication module

##### Error Codes

DEUTZ: 146, Blink: 5-5-5, SPN: 523612,

FMI (Bit 0,1,2,3):

3: Voltage too high or short circuit to +Ubatt

11: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 its communication module

##### Error Codes

DEUTZ: 147, Blink: 5-5-5, SPN: 523612,

FMI (Bit 0,1,2,3):

11: Error mode not identifiable

4: Voltage too low or short circuit to -Ubatt

11: Error mode not identifiable

11: Error mode 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.

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## 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 damaged, CAN bus wrong cabled, wiring damaged, 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 shedding, 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 damaged, sensor defective, connection cable damaged

##### 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 damaged

##### 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.

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## 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 damaged

##### 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 damaged

##### 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 damaged

##### 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.

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## 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 damaged

##### 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.

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## 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 damaged

##### 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 damaged

##### 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 damaged

##### 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.

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**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 damaged

**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 damaged

**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 damaged

**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.

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## 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 damaged

##### 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 damaged

##### 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 damaged

##### 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.

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## 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 damaged

##### 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 damaged

##### 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 damaged

##### 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.

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## 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 damaged

##### 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 damaged

##### 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 damaged

##### 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.

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# 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 damaged

#### 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.

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# 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 damaged

#### 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 damaged

#### 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 damaged

#### 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.

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## 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 damaged

##### 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 damaged; 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.

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## 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 damaged

##### 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.

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## 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 damaged

##### 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 damaged

##### 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 damaged

##### 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.

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## 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 damaged

##### 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 damaged

##### 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 damaged

##### 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.

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# 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 damaged, CAN bus wrong cabled, wiring damaged, 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 shedding, 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: Error mode not identifiable

11: Error mode not identifiable

11: Error mode 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 damaged

#### 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.

### OPSCDSysReachHi

#### 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: Error mode not identifiable

11: Error mode 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 damaged

#### 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.

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# 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 damaged

#### 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 damaged

#### 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 damaged

#### 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.

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# 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 damaged

#### 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 damaged

#### 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.

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# 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 clamp 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) Check 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 clamp 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) Check 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.

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# 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.

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# 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 clamp 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) Check 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 too low, connection cable damaged, 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.

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# 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 too low, connection cable damaged, 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 damaged, 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, connection 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.

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## 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 damaged

##### 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 (diagnostic lamp): 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: 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 damaged

##### 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 damaged

##### 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.

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## 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 damaged

##### 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 damaged

##### 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.

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# 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 damaged

#### 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.

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# 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 damaged, CAN bus wrong cabled, wiring damaged, 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 scheduling, 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.

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## Diagnosis- and Fehlercodes

Referenced ECU Software  
P490\_: 220, 310, 501  
P491\_: 220, 310, 400, 501

P492\_: 213  
P513\_: 214, 300



### 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 damaged, 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 damaged

#### 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 damaged, 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.

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## 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.

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## 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.

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## 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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# 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 message RapeOilIn (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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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# 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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# DTC - List

## Diagnosis- and Fehlercodes

Referenced ECU Software

P490\_ : 220, 310, 501

P491\_ : 220, 310, 400, 501

P492\_ : 213

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### 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Corrective Action

Check CAN Bus cabling (Bus shedding, 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.

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## 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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 damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

##### Corrective Action

Check CAN Bus cabling (Bus shedding, 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

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