

# DTC-List

## Diagnosis- and Errorcodes

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

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



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P490\_ : 220, 310, 501  
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P513\_ : 214, 300



Deutz-Code / SPN / Fehlername	Seite
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### 11 / 107 / AirFltSysReac

#### Error description AIR FILTER COND.

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-Errorcode: 11

BlinkCode (short-long-short): 1 - 3 - 6

SPN: 107

#### possible FMI:

- 0: data valid, but above normal working area
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Pressure loss above target range with system reaction, air filter clogged or defective, sensor not working, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning or Warning and power reduction

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: actual value

### 12 / 91 / APP1

#### Error description THROTTLE 1

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-Errorcode: 12

BlinkCode (short-long-short): 2 - 2 - 6

SPN: 91

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 12: Errormode not identifiable
- 2: data stream is defective

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, switching to substitute value

correspond to Priority-Chain or Limp Home

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: actual value

### 14 / 91 / APPPwm

#### Error description THROTTLE 1

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-Errorcode: 14

BlinkCode (short-long-short): 2 - 2 - 2

SPN: 91

#### possible FMI:

- 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

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Duty cycle outside target range, signal erroneous or implausible (pedal 1), sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, switching to substitute value

correspond to Priority-Chain or Limp Home

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 15 / 91 / APPPwmPer

#### Error description THROTTLE 1

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

#### Error codes

DEUTZ-Errorcode: 15

BlinkCode (short-long-short): 2 - 2 - 2

SPN: 91

#### possible FMI:

8: unusual frequency, pulse or period.

8: unusual frequency, pulse or period.

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, switching to substitute value correspond to Priority-Chain or Limp Home

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 16 / 108 / APSCD

#### Error description BAROMETRIC PRESS.

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-Errorcode: 16

BlinkCode (short-long-short): 2 - 9 - 2

SPN: 108

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Ambient air pressure sensor defective, ECU defective

#### Take actions for error repair

Change ECU

#### other error properties

System reaction: Warning, substitute value (0,85bar)

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: default value

### 17 / 729 / ArHt1

#### Error description AIR HEATER RELAY

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

#### Error codes

DEUTZ-Errorcode: 17

BlinkCode (short-long-short): 2 - 6 - 3

SPN: 729

#### possible FMI:

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

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: shut off value

### 18 / 730 / ArHt2

#### Error description AIR HEATER VALVE

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

#### Error codes

DEUTZ-Errorcode: 18

BlinkCode (short-long-short): 2 - 6 - 3

SPN: 730

#### possible FMI:

- 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
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, valve defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: shut off value

### 19 / 676 / ArHtCD\_NoLd

#### Error description AIR HEATER

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

#### Error codes

DEUTZ-Errorcode: 19

BlinkCode (short-long-short): 2 - 6 - 3

SPN: 676

#### possible FMI:

- 12: Errormode not identifiable
- 4: Voltage to low or short circuit to -Ubatt
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Relay energized, but no feedback on sense line, relay defective or wrong wired, preheat component defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: setpoint for output status

### 20 / 676 / ArHtCD\_RlyErr

#### Error description AIR HEATER

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

#### Error codes

DEUTZ-Errorcode: 20

BlinkCode (short-long-short): 2 - 6 - 3

SPN: 676

#### possible FMI:

- 5: current to low or broken wire
- 2: data stream is defective
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: setpoint for output status

### 22 / 168 / BattCD

#### Error description BATTERY VOLTAGE

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

#### Error codes

DEUTZ-Errorcode: 22

BlinkCode (short-long-short): 3 - 1 - 8

SPN: 168

#### possible FMI:

- 0: data valid, but above normal working area
- 1: data valid, but below normal working area
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value, dependent upon supply voltage (12V, 24V)

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 23 / 168 / BattCDSysReac

#### Error description BATTERY VOLTAGE

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

#### Error codes

DEUTZ-Errorcode: 23

BlinkCode (short-long-short): 3 - 1 - 8

SPN: 168

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 24 / 523561 / BIPCyl1

#### Error description INJECT. PERIOD ZYL.1

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-Errorcode: 24

BlinkCode (short-long-short): 5 - 3 - 1

SPN: 523561

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Check magnetic valve or injection pump and if necessary change them

#### other error properties

System reaction: No function at the moment/ Allocation check cylinder!

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 25 / 523562 / BIPCyl2

#### Error description INJECT. PERIOD ZYL.2

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-Errorcode: 25

BlinkCode (short-long-short): 5 - 3 - 2

SPN: 523562

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Check magnetic valve or injection pump and if necessary change them

#### other error properties

System reaction: No function at the moment/ Allocation check cylinder!

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 26 / 523563 / BIPCyl3

#### Error description INJECT. PERIOD ZYL.3

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-Errorcode: 26

BlinkCode (short-long-short): 5 - 3 - 3

SPN: 523563

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Check magnetic valve or injection pump and if necessary change them

#### other error properties

System reaction: No function at the moment/ Allocation check cylinder!

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 27 / 523564 / BIPCyl4

#### Error description INJECT. PERIOD ZYL.4

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-Errorcode: 27

BlinkCode (short-long-short): 5 - 3 - 4

SPN: 523564

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

d

#### other error properties

System reaction: No function at the moment/ Allocation check cylinder!

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 28 / 523565 / BIPCyl5

#### Error description INJECT. PERIOD ZYL.5

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-Errorcode: 28

BlinkCode (short-long-short): 5 - 3 - 5

SPN: 523565

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Check magnetic valve or injection pump and if necessary change them

#### other error properties

System reaction: No function at the moment/ Allocation check cylinder!

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 29 / 523566 / BIPCyl6

#### Error description INJECT. PERIOD ZYL.6

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-Errorcode: 29

BlinkCode (short-long-short): 5 - 3 - 6

SPN: 523566

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Check magnetic valve or injection pump and if necessary change them

#### other error properties

System reaction: No function at the moment/ Allocation check cylinder!

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 30 / 523567 / BIPCyl7

#### Error description INJECT. PERIOD ZYL.7

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-Errorcode: 30

BlinkCode (short-long-short): 5 - 3 - 7

SPN: 523567

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Check magnetic valve or injection pump and if necessary change them

#### other error properties

System reaction: No function at the moment/ Allocation check cylinder!

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value



### 31 / 523568 / BIPCyl8

#### Error description INJECT. PERIOD ZYL.8

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-Errorcode: 31

BlinkCode (short-long-short): 5 - 3 - 8

SPN: 523568

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Check magnetic valve or injection pump and if necessary change them

#### other error properties

System reaction: No function at the moment/ Allocation check cylinder!

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 32 / 102 / BPSCD

#### Error description CHARGE AIR PRESS.

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-Errorcode: 32

BlinkCode (short-long-short): 2 - 2 - 3

SPN: 102

#### possible FMI:

- 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

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, sensor defective, onnection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: default value

### 33 / 102 / BPSCDSysReac

#### Error description CHARGE AIR PRESS.

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

#### Error codes

DEUTZ-Errorcode: 33

BlinkCode (short-long-short): 2 - 2 - 3

SPN: 102

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

Outside target range with system reaction, air system damaged, sensor defective, onnection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: BPSCD\_stSysReacReq

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 37 / 111 / CLSCDSysReac

#### Error description ENG COOLANT LEVEL

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

#### Error codes

DEUTZ-Errorcode: 37

BlinkCode (short-long-short): 2 - 3 - 5

SPN: 111

#### possible FMI:

- 1: data valid, but below normal working area
- 1: data valid, but below normal working area
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

Outside target range with system reaction, cooling system untight, sensor defective, onnection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: CLSCD\_stSysReacReq

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: actual value

### 38 / 1323 / CmbChbMisfire1

#### Error description MISFIRE CYL. 1

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

#### Error codes

DEUTZ-Errorcode: 38

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1323

#### possible FMI:

- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Misfire detected (cylinder 1), magnet valve or injection pump defective, fuel system defective, motor engineering damaged

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 39 / 1324 / CmbChbMisfire2

#### Error description MISFIRE CYL. 2

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

#### Error codes

DEUTZ-Errorcode: 39

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1324

#### possible FMI:

- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Misfire detected (cylinder 2), magnet valve or injection pump defective, fuel system defective, motor engineering damaged

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 40 / 1325 / CmbChbMisfire3

#### Error description MISFIRE CYL. 3

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

#### Error codes

DEUTZ-Errorcode: 40

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1325

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 41 / 1326 / CmbChbMisfire4

#### Error description MISFIRE CYL. 4

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

#### Error codes

DEUTZ-Errorcode: 41

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1326

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 42 / 1327 / CmbChbMisfire5

#### Error description MISFIRE CYL. 5

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

#### Error codes

DEUTZ-Errorcode: 42

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1327

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 43 / 1328 / CmbChbMisfire6

#### Error description MISFIRE CYL. 6

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

#### Error codes

DEUTZ-Errorcode: 43

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1328

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 44 / 1450 / CmbChbMisfire7

#### Error description MISFIRE CYL. 7

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

#### Error codes

DEUTZ-Errorcode: 44

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1450

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 45 / 1451 / CmbChbMisfire8

#### Error description MISFIRE CYL. 8

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

#### Error codes

DEUTZ-Errorcode: 45

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1451

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 46 / 1322 / CmbChbMisfireMul

#### Error description MULTIPL. CYL. MISFIRE

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

#### Error codes

DEUTZ-Errorcode: 46

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1322

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Misfire detected, magnet valve or injection pump defective, fuel system defective, motor engineering damaged

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 47 / 1346 / CmbChbSysReac

#### Error description MISFIRE SYST. REACT

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-Errorcode: 47

BlinkCode (short-long-short): 2 - 4 - 1

SPN: 1346

#### possible FMI:

- 0: data valid, but above normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Misfire detected with system reaction, magnet valve or injection pump defective, fuel system defective, motor engineering damaged

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 0

Measurement @ errortime: actual value

### 48 / 1109 / CoEngShOffDemlgr

#### Error description SHUT OFF REQUEST

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

#### Error codes

DEUTZ-Errorcode: 48

BlinkCode (short-long-short): 3 - 4 - 1

SPN: 1109

#### possible FMI:

- 2: data stream is defective
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Shut-off request ignored by operator

#### Take actions for error repair

Warranty relevant

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: actual value

### 52 / 1072 / CRERCD

#### Error description ENGINE BRAKE INT.

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-Errorcode: 52

BlinkCode (short-long-short): 5 - 2 - 8

SPN: 1072

#### possible FMI:

- 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
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in error memory.

#### Possible reason for error

Cable break or short circuit, sensor defective, connection cable damaged

#### Take actions for error repair

Check actuator and if necessary replace it, check connection cable and if necessary repair or replace it

#### Other error properties

System reaction: Warning, shutoff output, capacity reduction via second top curve?

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 2

Measurement @ errortime: setpoint for output status

### 53 / 1081 / CSLpCD

#### Error description PREHEAT LAMP

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-Errorcode: 53

BlinkCode (short-long-short): 3 - 2 - 8

SPN: 1081

#### possible FMI:

- 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

Errorlamp shows permanent light. Entry in error memory.

#### Possible reason for error

Cable break or short circuit, lamp defective, connection cable damaged

#### Take actions for error repair

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

#### Other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: setpoint for output status

### 54 / 704 / CTLpCD

#### Error description TEMP. LAMP

Warning lamp for coolant temperature: 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-Errorcode: 54

BlinkCode (short-long-short): 1 - 2 - 3

SPN: 704

#### possible FMI:

- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in error memory.

#### Possible reason for error

Cable break or short circuit, lamp defective, connection cable damaged

#### Take actions for error repair

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

#### Other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: setpoint for output status

### 55 / 110 / CTSCD

#### Error description ENG COOLANT TEMP.

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-Errorcode: 55

BlinkCode (short-long-short): 2 - 2 - 5

SPN: 110

#### possible FMI:

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

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, lamp defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: default value

### 56 / 110 / CTSCDSysReac

#### Error description ENG COOLANT TEMP.

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

#### Error codes

DEUTZ-Errorcode: 56

BlinkCode (short-long-short): 2 - 3 - 2

SPN: 110

#### possible FMI:

0: data valid, but above normal working area

0: data valid, but above normal working area

12: Errormode not identifiable

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: CTSCD\_stSysReacReq

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 57 / 701 / Dummy1CD\_Max

#### Error description RESERVE 2

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

#### Error codes

DEUTZ-Errorcode: 57

BlinkCode (short-long-short): 1 - 0 - 0

SPN: 701

#### possible FMI:

12: Errormode not identifiable

12: Errormode not identifiable

12: Errormode not identifiable

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit to Ubatt (output 1), connection cable damaged

#### Take actions for error repair

Check connection cable and if necessary repair or replace it

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: shut off value

### 58 / 701 / Dummy1CD\_Min

#### Error description RESERVE 2

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

#### Error codes

DEUTZ-Errorcode: 58

BlinkCode (short-long-short): 1 - 0 - 0

SPN: 701

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit to ground (output 1), connection cable damaged

#### Take actions for error repair

Check connection cable and if necessary repair or replace it

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: shut off value

### 59 / 701 / Dummy1CD\_SigNpl

#### Error description RESERVE 2

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-Errorcode: 59

BlinkCode (short-long-short): 1 - 0 - 0

SPN: 701

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: shut off value

### 60 / 702 / Dummy2CD\_Max

#### Error description THRUST MODE

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

#### Error codes

DEUTZ-Errorcode: 60

BlinkCode (short-long-short): 1 - 0 - 0

SPN: 702

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit to Ubatt (output 2), onnection cable damaged

#### Take actions for error repair

Check connection cable and if necessary repair or replace it

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: shut off value



### 61 / 702 / Dummy2CD\_Min

#### Error description THRUST MODE

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

#### Error codes

DEUTZ-Errorcode: 61

BlinkCode (short-long-short): 1 - 0 - 0

SPN: 702

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit to ground (output 2), connection cable damaged

#### Take actions for error repair

Check connection cable and if necessary repair or replace it

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: shut off value

### 62 / 702 / Dummy2CD\_SigNpl

#### Error description THRUST MODE

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-Errorcode: 62

BlinkCode (short-long-short): 1 - 0 - 0

SPN: 702

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: shut off value

### 69 / 2791 / EGRCD\_Max

#### Error description EGR ACTUATOR

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

#### Error codes

DEUTZ-Errorcode: 69

BlinkCode (short-long-short): 4 - 1 - 4

SPN: 2791

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit to Ubatt, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output, power reduction via second topcurve?

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: shut off value

### 70 / 2791 / EGRCD\_Min

#### Error description EGR ACTUATOR

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

#### Error codes

DEUTZ-Errorcode: 70

BlinkCode (short-long-short): 4 - 1 - 4

SPN: 2791

#### possible FMI:

- 12. Errormode not identifiable
- 4: Voltage to low or short circuit to -Ubatt
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit to ground, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output, power reduction via second topcurve?

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: shut off value

### 71 / 2791 / EGRCD\_SigNpl

#### Error description EGR ACTUATOR

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-Errorcode: 71

BlinkCode (short-long-short): 4 - 1 - 5

SPN: 2791

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 5: current to low or broken wire
- 2: data stream is defective

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or excess temperature, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output, power reduction via second topcurve?

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: shut off value

### 72 / 2791 / EGRCDIntEGR

#### Error description EGR ACTUATOR

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-Errorcode: 72

BlinkCode (short-long-short): 4 - 1 - 6

SPN: 2791

#### possible FMI:

- 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

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break, short circuit or excess temperature, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output, power reduction via second topcurve?

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: shut off value

### 74 / 923 / EngCDTrqCalcOut

#### Error description ENGINE POWER OUT

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-Errorcode: 74

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 923

#### possible FMI:

- 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

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Engine Power output: cable break or short circuit, output defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: shut off value

### 75 / 190 / EngMBackUp

#### Error description ENGINE SPEED

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-Errorcode: 75

BlinkCode (short-long-short): 2 - 1 - 2

SPN: 190

#### possible FMI:

- 12: Errormode not identifiable
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Engine running only with cam-shaft speed signal, transmitter defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, calculation of injektion initiation point will be incorrect

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: -

### 76 / 190 / EngMCaS1

#### Error description ENGINE SPEED

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

#### Error codes

DEUTZ-Errorcode: 76

BlinkCode (short-long-short): 2 - 1 - 2

SPN: 190

#### possible FMI:

- 12: Defective component
- 8: unusual frequency, pulse or period.
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Speed signal from cam-shaft defective or missing, transmitter defective, connection cable damaged, parametering of the sensor wheel inaccurate

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, difficult start

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: 0

### 77 / 190 / EngMCRs1

#### Error description ENGINE SPEED

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

#### Error codes

DEUTZ-Errorcode: 77

BlinkCode (short-long-short): 2 - 1 - 2

SPN: 190

#### possible FMI:

- 12: Defective component
- 8: unusual frequency, pulse or period.
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Speed signal from crankshaft defective or missing, transmitter defective, connection cable damaged, sensor wheel installed inaccurately

#### Take actions for error repair

Check cabling, check camshaft 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

#### other error properties

System reaction: Warning, power reduction via second topcurve

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: 0

### 78 / 190 / EngMOfsCaSCrS

#### Error description ENGINE SPEED

Speed sensor of crankschaft and camshaft: the received signals are out of phase

#### Error codes

DEUTZ-Errorcode: 78

BlinkCode (short-long-short): 2 - 1 - 3

SPN: 190

#### possible FMI:

- 2: data stream is defective
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, not possible to start engine

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: -

### 79 / 190 / EngPrtSysReacFOC

#### Error description ENGINE SPEED

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

#### Error codes

DEUTZ-Errorcode: 79

BlinkCode (short-long-short): 2 - 1 - 4

SPN: 190

#### possible FMI:

- 0: data valid, but above normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errorredetection

Errorlamp shows blinking. Entry in errormemory.

#### Possible reason for error

Engine overspeed detected with system reaction, maximum engine speed exceeded

#### Take actions for error repair

#### other error properties

System reaction:

Behaviour error lamp: blinking

Selfhealing: no

Signal Priority: 5

Measurement @ errortime: actual value

### 80 / 190 / EngPrtSysReacORC

#### Error description ENGINE SPEED

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-Errorcode: 80

BlinkCode (short-long-short): 2 - 1 - 4

SPN: 190

#### possible FMI:

- 14: Special Instructions
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Overrun conditions detected with system reaction, maximum engine speed exceeded

#### Take actions for error repair

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 81 / 703 / ESLpCD

#### Error description ENG. RUNNING LAMP

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-Errorcode: 81

BlinkCode (short-long-short): 1 - 4 - 2

SPN: 703

#### possible FMI:

- 3: Voltage to high or short circuit to +U<sub>batt</sub>
- 4: Voltage to low or short circuit to -U<sub>batt</sub>
- 5: current to low or broken wire
- 2: data stream is defective

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or internal ECU error, lamp defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: shut off value

### 82 / 1074 / ExFICD

#### Error description BRAKE FLAP ACTUATOR

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-Errorcode: 82

BlinkCode (short-long-short): 2 - 1 - 9

SPN: 1074

#### possible FMI:

- 3: Voltage to high or short circuit to +U<sub>batt</sub>
- 4: Voltage to low or short circuit to -U<sub>batt</sub>
- 5: current to low or broken wire
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Engine brake flap actuator: cable break or short circuit, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 2

Measurement @ errortime: shut off value

### 83 / 975 / FanCD

#### Error description FAN ACTUATOR

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-Errorcode: 83

BlinkCode (short-long-short): 2 - 3 - 8

SPN: 975

#### possible FMI:

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

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 2

Measurement @ errortime: Sollwert

### 85 / 1639 / FanCDEval

#### Error description

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

#### Error codes

DEUTZ-Errorcode: 85

BlinkCode (short-long-short): 2 - 3 - 8

SPN: 1639

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Sensor defective, connection cable damaged, fan speed outside the target range

#### Take actions for error repair

Check sensor and if necessary replace it, check connection cable and if necessary repair or replace it, check fan

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: actual value

### 86 / 523602 / FanCDSysReac

#### Error description FAN SPEED

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

#### Error codes

DEUTZ-Errorcode: 86

BlinkCode (short-long-short): 2 - 3 - 8

SPN: 523602

#### possible FMI:

2: data stream is defective

2: data stream is defective

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Above target range with system reaction

#### Take actions for error repair

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 87 / 97 / FIFCD

#### Error description WATER IN FUEL

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

#### Error codes

DEUTZ-Errorcode: 87

BlinkCode (short-long-short): 2 - 2 - 8

SPN: 97

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default value

### 89 / 97 / FIFCD\_WtLvI

#### Error description WATER IN FUEL

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

#### Error codes

DEUTZ-Errorcode: 89

BlinkCode (short-long-short): 2 - 2 - 8

SPN: 97

#### possible FMI:

12: Defective component

12: Errormode not identifiable

12: Errormode not identifiable

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

flush water separator

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: actual value

### 90 / 94 / FIPSCD

#### Error description FUEL PRE PRESS.

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

#### Error codes

DEUTZ-Errorcode: 90

BlinkCode (short-long-short): 2 - 1 - 6

SPN: 94

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 91 / 94 / FIPSCDSysReac

#### Error description FUEL PRE PRESS.

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

#### Error codes

DEUTZ-Errorcode: 91

BlinkCode (short-long-short): 2 - 1 - 6

SPN: 94

#### possible FMI:

2: data stream is defective

2: data stream is defective

12: Errormode not identifiable

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: FLPSCD\_stSysReacReq

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 94 / 523239 / FrmMngDecV1

#### Error description CAN ERROR DEC-V1

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-Errorcode: 94

BlinkCode (short-long-short): 5 - 2 - 6

SPN: 523239

#### possible FMI:

12: Defective component

12: Defective component

12: Defective component

2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to customers configuration.

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default value

### 95 / 523240 / FrmMngFunModCtl

#### Error description CAN ERROR FUNMODCTL

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

#### Error codes

DEUTZ-Errorcode: 95

BlinkCode (short-long-short): 5 - 2 - 7

SPN: 523240

#### possible FMI:

12: Defective component

12: Errormode not identifiable

12: Errormode not identifiable

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to customers configuration.

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default value



### 106 / 523212 / FrmMngTOEngPrt

#### Error description CAN ERROR ENGPRT

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

#### Error codes

DEUTZ-Errorcode: 106

BlinkCode (short-long-short): 3 - 3 - 3

SPN: 523212

#### possible FMI:

- 12: Defective component
- 12: Errormode not identifiable
- 12: Defective component
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning. Hold last value.

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default value

### 110 / 523216 / FrmMngTOPrHtEnCmd

#### Error description CAN ERROR PRHTENCMD

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

#### Error codes

DEUTZ-Errorcode: 110

BlinkCode (short-long-short): 3 - 3 - 7

SPN: 523216

#### possible FMI:

- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Defective component
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to customers configuration.

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default valuee

### 112 / 523218 / FrmMngTORxCCVS

#### Error description CAN ERROR RXCCVS

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

#### Error codes

DEUTZ-Errorcode: 112

BlinkCode (short-long-short): 1 - 1 - 1

SPN: 523218

#### possible FMI:

- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Defective component
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default valuee

### 113 / 523604 / FrmMngTORxEngTemp

#### Error description CAN ERROR RxEngTemp

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

#### Error codes

DEUTZ-Errorcode: 113

BlinkCode (short-long-short): 1 - 1 - 2

SPN: 523604

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default value

### 117 / 523238 / FrmMngTOSwtOut

#### Error description CAN ERROR SWTOUT

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

#### Error codes

DEUTZ-Errorcode: 117

BlinkCode (short-long-short): 1 - 1 - 5

SPN: 523238

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default value

### 118 / 523222 / FrmMngTOTCO1

#### Error description CAN ERROR TCO1

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

#### Error codes

DEUTZ-Errorcode: 118

BlinkCode (short-long-short): 1 - 1 - 6

SPN: 523222

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12: Defective component
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default value

### 120 / 523605 / FrmMngTOTSC1AE

#### Error description CAN ERROR TSC1-AE

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-Errorcode: 120

BlinkCode (short-long-short): 1 - 1 - 8

SPN: 523605

#### possible FMI:

- 12: Defective component
- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 121 / 523606 / FrmMngTOTSC1AR

#### Error description CAN ERROR TSC1-AR

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-Errorcode: 121

BlinkCode (short-long-short): 1 - 1 - 9

SPN: 523606

#### possible FMI:

- 12: Defective component
- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 122 / 523607 / FrmMngTOTSC1DE

#### Error description CAN ERROR TSC1-DE

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

#### Error codes

DEUTZ-Errorcode: 122

BlinkCode (short-long-short): 1 - 1 - 8

SPN: 523607

#### possible FMI:

- 12: Defective component
- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 123 / 523608 / FrmMngTOTSC1DR

#### Error description CAN ERROR TSC1-DR

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

#### Error codes

DEUTZ-Errorcode: 123

BlinkCode (short-long-short): 1 - 1 - 9

SPN: 523608

#### possible FMI:

- 12: Defective component
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 124 / 523609 / FrmMngTOTSC1PE

#### Error description CAN ERROR TSC1-PE

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-Errorcode: 124

BlinkCode (short-long-short): 1 - 1 - 8

SPN: 523609

#### possible FMI:

- 12: Defective component
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 125 / 898 / FrmMngTOTSC1TE

#### Error description CAN ERROR TSC1-TE

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

#### Error codes

DEUTZ-Errorcode: 125

BlinkCode (short-long-short): 1 - 1 - 8

SPN: 898

#### possible FMI:

- 12: Defective component
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 126 / 520 / FrmMngTOTSC1TR

#### Error description CAN ERROR TSC1-TR

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

#### Error codes

DEUTZ-Errorcode: 126

BlinkCode (short-long-short): 1 - 1 - 9

SPN: 520

#### possible FMI:

- 12: Defective component
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 127 / 523610 / FrmMngTOTSC1VE

#### Error description CAN ERROR TSC1-VE

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

#### Error codes

DEUTZ-Errorcode: 127

BlinkCode (short-long-short): 1 - 1 - 8

SPN: 523610

#### possible FMI:

- 12: Defective component
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 128 / 523611 / FrmMngTOTSC1VR

#### Error description CAN ERROR TSC1-VR

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

#### Error codes

DEUTZ-Errorcode: 128

BlinkCode (short-long-short): 1 - 1 - 9

SPN: 523611

#### possible FMI:

- 12: Defective component
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 131 / 523500 / FrmMngTxTO

#### Error description CAN MESS. TIMEOUT

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

#### Error codes

DEUTZ-Errorcode: 131

BlinkCode (short-long-short): 2 - 7 - 1

SPN: 523500

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12: Defective component
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Timeout for sent messages

#### Take actions for error repair

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: -

### 133 / 174 / FTSCD

#### Error description FUEL TEMP. SENSOR

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

#### Error codes

DEUTZ-Errorcode: 133

BlinkCode (short-long-short): 2 - 2 - 7

SPN: 174

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Fuel temp. sensor: cable break or short circuit, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: default value

### 134 / 174 / FTSCDSysReac

#### Error description FUEL TEMP. SENSOR

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

#### Error codes

DEUTZ-Errorcode: 134

BlinkCode (short-long-short): 2 - 3 - 7

SPN: 174

#### possible FMI:

- 0: data valid, but above normal working area
- 0: data valid, but above normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: FTSCD\_stSysReacReq

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 136 / 523618 / GOTSCD

#### Error description CUSTOMER TEMPESENS 1

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-Errorcode: 136

BlinkCode (short-long-short): 1 - 3 - 3

SPN: 523618

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 2: data stream is defective
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value (customer specific)

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: default value

### 137 / 523619 / 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-Errorcode: 137

BlinkCode (short-long-short): 1 - 3 - 3

SPN: 523619

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light  
oder

blinking. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Customer specific bugfixing, dependant on application

#### other error properties

System reaction: Advice: GOTSCD\_stSysReacReq

Behaviour error lamp: permanent light  
oder

blinking

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 138 / 29 / HdThrt

#### Error description THROTTLE 2

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-Errorcode: 138

BlinkCode (short-long-short): 1 - 2 - 6

SPN: 29

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 12: Errormode not identifiable
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, signal implausible compared to signal of idle sensor, transmitter defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, changing to substitute values according to priority chain or limp home

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: actual value

### 139 / 1638 / HOTSCD

#### Error description CUSTOMER TEMPESENS 2

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-Errorcode: 139

BlinkCode (short-long-short): 3 - 1 - 4

SPN: 1638

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12: Defective component

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value (customer specific)

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: default value

### 140 / 1638 / HOTSCDSysReac

#### Error description CUSTOMER TEMPESENS 2

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

#### Error codes

DEUTZ-Errorcode: 140

BlinkCode (short-long-short): 3 - 1 - 4

SPN: 1638

#### possible FMI:

2: data stream is defective

2: data stream is defective

12: Errormode not identifiable

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light  
oder  
blinking. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Customer specific bugfixing, dependant on application

#### other error properties

System reaction: Advice: HOTSCD\_stSysReacReq

Behaviour error lamp: permanent light  
oder  
blinking

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 141 / 523617 / HWEMonCom

#### Error description INTERNAL COMM. ERROR

Internal hardware monitoring: the ECU detects a communication disturbance

#### Error codes

DEUTZ-Errorcode: 141

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 523617

#### possible FMI:

12: Defective component

12: Errormode not identifiable

12: Errormode not identifiable

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Communication with chip CJ 940 disturbed, ECU defective

#### Take actions for error repair

If cannot delete the error, change ECU

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: -



### 142 / 630 / HWEMonEEPROM

#### Error description EEPROM MEM. ACCESS

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

#### Error codes

DEUTZ-Errorcode: 142

BlinkCode (short-long-short): 2 - 8 - 1

SPN: 630

#### possible FMI:

- 12. Errormode not identifiable
- 12: Defective component
- 12: Defective component
- 12: Defective component

#### Error detection

Errorlamp shows permanent light. Entry in error memory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: -

### 143 / 523612 / HWEMonRcyLocked

#### Error description INT. RECOVERY

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-Errorcode: 143

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 523612

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 14: Special Instructions

#### Error detection

Errorlamp shows blinking. Entry in error memory.

#### Possible reason for error

A recovery occurred which is stored as protected

#### Take actions for error repair

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

#### other error properties

System reaction: Recovery of ECU

Behaviour error lamp: blinking

Selfhealing: no

Signal Priority: 5

Measurement @ errortime: -

### 144 / 523612 / HWEMonRcySuppressed

#### Error description INT. RECOVERY

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-Errorcode: 144

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 523612

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 14: Special Instructions

#### Error detection

Errorlamp shows blinking. Entry in error memory.

#### Possible reason for error

A recovery occurred which is not stored

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shown at error path

Behaviour error lamp: blinking

Selfhealing: no

Signal Priority: 5

Measurement @ errortime: -

### 145 / 523612 / HWEMonRcyVisible

#### Error description INT. RECOVERY

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

#### Error codes

DEUTZ-Errorcode: 145

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 523612

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 14: Special Instructions

#### Errordetection

Errorlamp shows blinking. Entry in errormemory.

#### Possible reason for error

A recovery occurred which is visible in the error memory

#### Take actions for error repair

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

#### other error properties

System reaction: Recovery of ECU

Behaviour error lamp: blinking

Selfhealing: no

Signal Priority: 5

Measurement @ errortime: -

### 146 / 523612 / HWEMonUMaxSupply

#### Error description INT. RECOVERY

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

#### Error codes

DEUTZ-Errorcode: 146

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 523612

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Overvoltage at CJ940, power supply voltage too high, ECU defective

#### Take actions for error repair

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

#### other error properties

System reaction: Power stage shut off

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: -

### 147 / 523612 / HWEMonUMinSupply

#### Error description INT. RECOVERY

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

#### Error codes

DEUTZ-Errorcode: 147

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 523612

#### possible FMI:

- 12. Errormode not identifiable
- 4: Voltage to low or short circuit to -Ubatt
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Undervoltage at CJ940, power supply voltage too low, ECU defective

#### Take actions for error repair

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

#### other error properties

System reaction: Power stage shut off

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: -

### 149 / 105 / IATSCD

#### Error description CHARGE AIR TEMP.

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-Errorcode: 149

BlinkCode (short-long-short): 1 - 2 - 8

SPN: 105

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 2: data stream is defective
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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, c

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: default value

### 150 / 105 / IATSCDSysReac

#### Error description CHARGE AIR TEMP.

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

#### Error codes

DEUTZ-Errorcode: 150

BlinkCode (short-long-short): 2 - 3 - 3

SPN: 105

#### possible FMI:

- 0: data valid, but above normal working area
- 0: data valid, but above normal working area
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

Above target range with system reaction, air system damaged, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: IATSCD\_stSysReacReq

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 153 / 523350 / InjVlvBnk1A

#### Error description INJECTOR BANK A

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

#### Error codes

DEUTZ-Errorcode: 153

BlinkCode (short-long-short): 1 - 5 - 1

SPN: 523350

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 13: out of calibrated range
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit (cylinder bank 1), injector defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, cylinder shut off

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 154 / 523351 / InjVlvBnk1B

#### Error description INJECTOR BANK A

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

#### Error codes

DEUTZ-Errorcode: 154

BlinkCode (short-long-short): 1 - 5 - 1

SPN: 523351

#### possible FMI:

- 13: out of calibrated range
- 13: out of calibrated range
- 5: current to low or broken wire
- 13: out of calibrated range

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, cylinder shut off

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 155 / 523352 / InjVlvBnk2A

#### Error description INJECTOR BANK B

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

#### Error codes

DEUTZ-Errorcode: 155

BlinkCode (short-long-short): 1 - 5 - 2

SPN: 523352

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 13: out of calibrated range
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, cylinder shut off

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 156 / 523353 / InjVlvBnk2B

#### Error description INJECTOR BANK B

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

#### Error codes

DEUTZ-Errorcode: 156

BlinkCode (short-long-short): 1 - 5 - 2

SPN: 523353

#### possible FMI:

- 13: out of calibrated range
- 13: out of calibrated range
- 5: current to low or broken wire
- 13: out of calibrated range

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, cylinder shut off

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 157 / 523354 / InjVlvChipA

#### Error description PWR. INJ. BANK B

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

#### Error codes

DEUTZ-Errorcode: 157

BlinkCode (short-long-short): 1 - 5 - 3

SPN: 523354

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

2: data stream is defective

14: Special Instructions

12: Defective component

#### Errordetection

Errorlamp shows blinking. Entry in errormemory.

#### Possible reason for error

High power stage Injector A, ECU defective

#### Take actions for error repair

If error is not removable, change ECU

#### other error properties

System reaction: Warninig, outputs shut off

Behaviour error lamp: blinking

Selfhealing: no

Signal Priority: 5

Measurement @ errortime: actual value

### 158 / 523355 / InjVlvChipB

#### Error description PWR. INJ. BANK B

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

#### Error codes

DEUTZ-Errorcode: 158

BlinkCode (short-long-short): 1 - 5 - 3

SPN: 523355

#### possible FMI:

12: Defective component

12: Defective component

12: Defective component

12: Defective component

#### Errordetection

Errorlamp shows blinking. Entry in errormemory.

#### Possible reason for error

High power stage Injector B, ECU defective

#### Take actions for error repair

If error is not removable, change ECU

#### other error properties

System reaction: Warninig, outputs shut off

Behaviour error lamp: blinking

Selfhealing: no

Signal Priority: 5

Measurement @ errortime: actual value

### 159 / 651 / InjVlvCyl1A

#### Error description INJECTOR 1

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

#### Error codes

DEUTZ-Errorcode: 159

BlinkCode (short-long-short): 1 - 5 - 4

SPN: 651

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

13: out of calibrated range

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit (cylinder 1), injector defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 160 / 651 / InjVlvCyl1B

#### Error description INJECTOR 1

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

#### Error codes

DEUTZ-Errorcode: 160

BlinkCode (short-long-short): 1 - 5 - 4

SPN: 651

#### possible FMI:

13: out of calibrated range

13: out of calibrated range

5: current to low or broken wire

13: out of calibrated range

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 161 / 652 / InjVlvCyl2A

#### Error description INJECTOR 2

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

#### Error codes

DEUTZ-Errorcode: 161

BlinkCode (short-long-short): 1 - 5 - 5

SPN: 652

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

13: out of calibrated range

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 162 / 652 / InjVlvCyl2B

#### Error description INJECTOR 2

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

#### Error codes

DEUTZ-Errorcode: 162

BlinkCode (short-long-short): 1 - 5 - 5

SPN: 652

#### possible FMI:

13: out of calibrated range

13: out of calibrated range

5: current to low or broken wire

13: out of calibrated range

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 163 / 653 / InjVlvCyl3A

#### Error description INJECTOR 3

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

#### Error codes

DEUTZ-Errorcode: 163

BlinkCode (short-long-short): 1 - 5 - 6

SPN: 653

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

13: out of calibrated range

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 164 / 653 / InjVlvCyl3B

#### Error description INJECTOR 3

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

#### Error codes

DEUTZ-Errorcode: 164

BlinkCode (short-long-short): 1 - 5 - 6

SPN: 653

#### possible FMI:

13: out of calibrated range

13: out of calibrated range

5: current to low or broken wire

13: out of calibrated range

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 165 / 654 / InjVlvCyl4A

#### Error description INJECTOR 4

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

#### Error codes

DEUTZ-Errorcode: 165

BlinkCode (short-long-short): 1 - 6 - 1

SPN: 654

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

13: out of calibrated range

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 166 / 654 / InjVlvCyl4B

#### Error description INJECTOR 4

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

#### Error codes

DEUTZ-Errorcode: 166

BlinkCode (short-long-short): 1 - 6 - 1

SPN: 654

#### possible FMI:

13: out of calibrated range

13: out of calibrated range

5: current to low or broken wire

13: out of calibrated range

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 167 / 655 / InjVlvCyl5A

#### Error description INJECTOR 5

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

#### Error codes

DEUTZ-Errorcode: 167

BlinkCode (short-long-short): 1 - 6 - 2

SPN: 655

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

13: out of calibrated range

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 168 / 655 / InjVlvCyl5B

#### Error description INJECTOR 5

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

#### Error codes

DEUTZ-Errorcode: 168

BlinkCode (short-long-short): 1 - 6 - 2

SPN: 655

#### possible FMI:

13: out of calibrated range

13: out of calibrated range

5: current to low or broken wire

13: out of calibrated range

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value



### 169 / 656 / InjVlvCyl6A

#### Error description INJECTOR 6

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

#### Error codes

DEUTZ-Errorcode: 169

BlinkCode (short-long-short): 1 - 6 - 3

SPN: 656

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

13: out of calibrated range

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit (cylinder 6), injector defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 170 / 656 / InjVlvCyl6B

#### Error description INJECTOR 6

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

#### Error codes

DEUTZ-Errorcode: 170

BlinkCode (short-long-short): 1 - 6 - 3

SPN: 656

#### possible FMI:

13: out of calibrated range

13: out of calibrated range

5: current to low or broken wire

13: out of calibrated range

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break (cylinder 6), injector defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 171 / 657 / InjVlvCyl7A

#### Error description INJECTOR 7

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

#### Error codes

DEUTZ-Errorcode: 171

BlinkCode (short-long-short): 1 - 6 - 4

SPN: 657

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

13: out of calibrated range

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit (cylinder 7), injector defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 172 / 657 / InjVlvCyl7B

#### Error description INJECTOR 7

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

#### Error codes

DEUTZ-Errorcode: 172

BlinkCode (short-long-short): 1 - 6 - 4

SPN: 657

#### possible FMI:

13: out of calibrated range

13: out of calibrated range

5: current to low or broken wire

13: out of calibrated range

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 173 / 658 / InjVlvCyl8A

#### Error description INJECTOR 8

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

#### Error codes

DEUTZ-Errorcode: 173

BlinkCode (short-long-short): 1 - 6 - 5

SPN: 658

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

13: out of calibrated range

4: Voltage to low or short circuit to -Ubatt

12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 174 / 658 / InjVlvCyl8B

#### Error description INJECTOR 8

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

#### Error codes

DEUTZ-Errorcode: 174

BlinkCode (short-long-short): 1 - 6 - 5

SPN: 658

#### possible FMI:

13: out of calibrated range

13: out of calibrated range

5: current to low or broken wire

13: out of calibrated range

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, fuel injection failed, shut off wenn the number of active cylinders below minimum

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 175 / 523370 / InjVlvErrDet

#### Error description RAIL PRESS. MON. DISABLED

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-Errorcode: 175

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 523370

#### possible FMI:

- 14: Special Instructions
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows . Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

not correct

#### other error properties

System reaction: Rail pressure monitoring disabled

Behaviour error lamp:

Selfhealing: -

Signal Priority: 1

Measurement @ errortime:

### 176 / 523615 / MeUnCD\_ADC

#### Error description METERING UNIT

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-Errorcode: 176

BlinkCode (short-long-short): 1 - 3 - 5

SPN: 523615

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Flow rate outside target range

#### Take actions for error repair

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: actual value

### 177 / 523615 / MeUnCDNoLoad

#### Error description METERING UNIT

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-Errorcode: 177

BlinkCode (short-long-short): 1 - 3 - 5

SPN: 523615

#### possible FMI:

- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 5: current to low or broken wire
- 12: Defective component

#### Errordetection

Errorlamp shows permanent light, 15s before shut off. Entry in errormemory.

#### Possible reason for error

wiring error or ECU output is switched off because of overtemperature, fuel metering unit defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, max.extraction of FCU --> open rail pressure relief valve --> shut the engine off in about 5 minutes

Behaviour error lamp: permanent light, 15s before shut off

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: actual value

### 178 / 523615 / MeUnCDSCBat

#### Error description METERING UNIT

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

#### Error codes

DEUTZ-Errorcode: 178

BlinkCode (short-long-short): 1 - 3 - 5

SPN: 523615

#### possible FMI:

- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light, 15s before shut off. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, rail pressure relief valve will open

Behaviour error lamp: permanent light, 15s before shut off

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: actual value

### 179 / 523615 / MeUnCDSCGnd

#### Error description METERING UNIT

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

#### Error codes

DEUTZ-Errorcode: 179

BlinkCode (short-long-short): 1 - 3 - 5

SPN: 523615

#### possible FMI:

- 12: Errormode not identifiable
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light, 15s before shut off. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, rail pressure relief valve will open

Behaviour error lamp: permanent light, 15s before shut off

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: actual value

### 182 / 2634 / MnRly1\_SCB

#### Error description MAIN RELAY

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

#### Error codes

DEUTZ-Errorcode: 182

BlinkCode (short-long-short): 1 - 3 - 7

SPN: 2634

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff the outputs MPROP

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: actual value

### 183 / 2634 / MnRly1\_SCG

#### Error description MAIN RELAY

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

#### Error codes

DEUTZ-Errorcode: 183

BlinkCode (short-long-short): 1 - 3 - 8

SPN: 2634

#### possible FMI:

- 12. Errormode not identifiable
- 4: Voltage to low or short circuit to -Ubatt
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Short circuit to ground (relay 1), relay defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff the outputs MPROP

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: actual value

### 184 / 523420 / Montr

#### Error description WATCHDOG COUNTER

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

#### Error codes

DEUTZ-Errorcode: 184

BlinkCode (short-long-short): 1 - 3 - 9

SPN: 523420

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 14: Special Instructions

#### Errordetection

Errorlamp shows blinking. Entry in errormemory.

#### Possible reason for error

Watchdog counter exceeds maximum, ECU defective

#### Take actions for error repair

If error is not removable, change ECU

#### other error properties

System reaction: Recovery of ECU

Behaviour error lamp: blinking

Selfhealing: no

Signal Priority: 5

Measurement @ errortime: -

### 186 / 2634 / MRlyCD

#### Error description MAIN RELAY

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

#### Error codes

DEUTZ-Errorcode: 186

BlinkCode (short-long-short): 2 - 6 - 1

SPN: 2634

#### possible FMI:

- 7: Mechanical system not OK
- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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 (witho

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: actual value

### 187 / 563 / MRlyCDMnRly2

#### Error description MAIN RELAY 2

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

#### Error codes

DEUTZ-Errorcode: 187

BlinkCode (short-long-short): 2 - 6 - 1

SPN: 563

#### possible FMI:

- 7: Mechanical system not OK
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

If error not removable, change ECU

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: actual value

### 188 / 2634 / MRlyCDMnRly3

#### Error description MAIN RELAY

Main relay 3 (in ECU): during the switching off, main relay does not switch on within an allowed time

#### Error codes

DEUTZ-Errorcode: 188

BlinkCode (short-long-short): 2 - 6 - 1

SPN: 2634

#### possible FMI:

- 7: Mechanical system not OK
- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Check cabling, check ECU, if error not removable, change ECU

#### other error properties

System reaction: Warning, shutoff the outputs MPROP (see BOSCH-Electricity operating plan)

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: actual value

### 189 / 523450 / MSSCD1

#### Error description MULTISTATE SWITCH 1

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-Errorcode: 189

BlinkCode (short-long-short): 1 - 4 - 3

SPN: 523450

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 12: Errormode not identifiable
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, input voltage outside target range (switch 1), switch defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: default value

### 190 / 523451 / MSSCD2

#### Error description MULTISTATE SWITCH 2

Multi state switch 2: the voltage measured by ECU is out of the target range or the switch setting is not plausible

#### Error codes

DEUTZ-Errorcode: 190

BlinkCode (short-long-short): 1 - 4 - 3

SPN: 523451

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, input voltage outside target range (switch 2), switch defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: default value

### 191 / 523452 / MSSCD3

#### Error description MULTISTATE SWITCH 3

Multi state switch 3: the voltage measured by ECU is out of the target range or the switch setting is not plausible

#### Error codes

DEUTZ-Errorcode: 191

BlinkCode (short-long-short): 1 - 4 - 3

SPN: 523452

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, input voltage outside target range (switch 3), switch defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: default value

### 192 / 639 / NetMngCANAOff

#### Error description CAN A BUS OFF

CAN bus A: the ECU is not allowed to send messages, because the status "BusOff" is detected

#### Error codes

DEUTZ-Errorcode: 192

BlinkCode (short-long-short): 2 - 7 - 1

SPN: 639

#### possible FMI:

14: Special Instructions

12. Errormode not identifiable

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, off-state (CAN bus A), CAN bus deactivated, connection cable damaged

#### Take actions for error repair

Check cabling of CAN bus and if necessary repair it, check connection cable and if necessary repair or replace it

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime:

### 193 / 1231 / NetMngCANBOff

#### Error description CAN B BUS OFF

CAN bus B: the ECU is not allowed to send messages, because the status "BusOff" is detected

#### Error codes

DEUTZ-Errorcode: 193

BlinkCode (short-long-short): 2 - 7 - 1

SPN: 1231

#### possible FMI:

- 14: Special Instructions
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, off-state (CAN bus B), CAN bus deactivated, connection cable damaged

#### Take actions for error repair

Check cabling of CAN bus and if necessary repair it, check connection cable and if necessary repair or replace it

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime:

### 194 / 1235 / NetMngCANCOff

#### Error description CAN C BUS OFF

CAN bus C: the ECU is not allowed to send messages, because the status "BusOff" is detected

#### Error codes

DEUTZ-Errorcode: 194

BlinkCode (short-long-short): 2 - 7 - 1

SPN: 1235

#### possible FMI:

- 14: Special Instructions
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, off-state (CAN bus C), CAN bus deactivated, connection cable damaged

#### Take actions for error repair

Check cabling of CAN bus and if necessary repair it, check connection cable and if necessary repair or replace it

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime:

### 195 / 705 / OPLpCD

#### Error description OIL PRESS LAMP

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-Errorcode: 195

BlinkCode (short-long-short): 1 - 3 - 5

SPN: 705

#### possible FMI:

- 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

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, lamp defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value



### 196 / 100 / OPSCD

#### Error description ENG OIL PRESS.

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-Errorcode: 196

BlinkCode (short-long-short): 2 - 2 - 4

SPN: 100

#### possible FMI:

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

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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, chec

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: default value

### 197 / 100 / OPSCD1

#### Error description ENG OIL PRESS.

Oil pressure: the oil pressure calculated by ECU is implausibly low

#### Error codes

DEUTZ-Errorcode: 197

BlinkCode (short-long-short): 2 - 3 - 1

SPN: 100

#### possible FMI:

12. Errormode not identifiable

12. Errormode not identifiable

12. Errormode not identifiable

1: data valid, but below normal working area

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Oil pressure implausible low, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: actual value

### 198 / 100 / OPSCDSysReacHi

#### Error description ENG OIL PRESS.

Oil pressure: the oil pressure calculated by ECU is above the target range; the ECU activates a system reaction

#### Error codes

DEUTZ-Errorcode: 198

BlinkCode (short-long-short): 2 - 3 - 1

SPN: 100

#### possible FMI:

0: data valid, but above normal working area

0: data valid, but above normal working area

12. Errormode not identifiable

12. Errormode not identifiable

#### Errorredetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

Above target range, oil volume too large, sensor defective, oil pump defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: OPSCD\_stSysReacReqHi

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 199 / 100 / OPSCDSysReacLo

#### Error description ENG OIL PRESS.

Oil pressure: the oil pressure calculated by ECU is underneath the target range; the ECU activates a system reaction

#### Error codes

DEUTZ-Errorcode: 199

BlinkCode (short-long-short): 2 - 3 - 1

SPN: 100

#### possible FMI:

- 1: data valid, but below normal working area
- 1: data valid, but below normal working area
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

Below target range, oil volume too small, sensor defective, oil pump defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: OPSCD\_stSysReacReqLo

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 200 / 1237 / OSwCD

#### Error description OVERRIDE SWITCH

Bridgeover switch: the ECU receives a permanent signal

#### Error codes

DEUTZ-Errorcode: 200

BlinkCode (short-long-short): 1 - 4 - 5

SPN: 1237

#### possible FMI:

- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 2: data stream is defective

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Switch is blocked, taster locked, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: actual value

### 201 / 175 / OTSCD

#### Error description OIL TEMP. SENSOR

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-Errorcode: 201

BlinkCode (short-long-short): 1 - 4 - 4

SPN: 175

#### possible FMI:

- 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

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: default value

### 203 / 175 / OTSCDSysReac

#### Error description OIL TEMP. SENSOR

Oil temperature: the oil temperature calculated by ECU is above the target range; the ECU activates a system reaction

#### Error codes

DEUTZ-Errorcode: 203

BlinkCode (short-long-short): 1 - 4 - 4

SPN: 175

#### possible FMI:

- 0: data valid, but above normal working area
- 0: data valid, but above normal working area
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

Above target range with system reaction, oil volume too small, oil loop disturbed, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: OTSCD\_stSysReacReq

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 208 / 523470 / PRVMon

#### Error description RAIL PRESS. LIM. VALVE

Rail pressure relief valve: is open, will be forced to open, the forced-open failed

#### Error codes

DEUTZ-Errorcode: 208

BlinkCode (short-long-short): 1 - 4 - 6

SPN: 523470

#### possible FMI:

- 14: Special Instructions
- 2: data stream is defective
- 12: Defective component
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light, 15s before shut off. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shut the engine off in about 5 minutes

Behaviour error lamp: permanent light, 15s before shut off

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: actual value

### 209 / 157 / RailCD

#### Error description RAIL PRESS. SENSOR

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

#### Error codes

DEUTZ-Errorcode: 209

BlinkCode (short-long-short): 1 - 4 - 7

SPN: 157

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light, 15s before shut off. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, sensor defective, connection cable damaged

#### Take actions for error repair

Check cabling, check rail pressure sensor and if necessary replace it, check connection cable and if necessary repair or replace it

#### other error properties

System reaction: Warning, max.extraction of FCU --> open rail pressure relief valve --> shut the engine off in about 5 minutes

Behaviour error lamp: permanent light, 15s before shut off

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: default value

### 210 / 157 / RailCDOfsTst

#### Error description RAIL PRESS. SENSOR

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-Errorcode: 210

BlinkCode (short-long-short): 1 - 4 - 7

SPN: 157

#### possible FMI:

- 0: data valid, but above normal working area
- 1: data valid, but below normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Deviation of signal during start or after-run above target range, sensor defective

#### Take actions for error repair

Replace sensor

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: actual value

### 211 / 523613 / RailMeUn0

#### Error description RAIL PRESSURE

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-Errorcode: 211

BlinkCode (short-long-short): 1 - 3 - 4

SPN: 523613

#### possible FMI:

- 0: data valid, but above normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

- 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 d

#### Take actions for error repair

(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

#### other error properties

System reaction: Warning or Warning and power reduction

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 212 / 523613 / RailMeUn1

#### Error description RAIL PRESSURE

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-Errorcode: 212

BlinkCode (short-long-short): 1 - 3 - 4

SPN: 523613

#### possible FMI:

- 0: data valid, but above normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light

oder

blinking. Entry in errormemory.

#### Possible reason for error

- 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 d

#### Take actions for error repair

(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

#### other error properties

System reaction: Warning or Warning and power reduction

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 213 / 523613 / RailMeUn2

#### Error description RAIL PRESSURE

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-Errorcode: 213

BlinkCode (short-long-short): 1 - 3 - 4

SPN: 523613

#### possible FMI:

- 0: data valid, but above normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light  
oder

blinking. Entry in errormemory.

#### Possible reason for error

- 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

#### Take actions for error repair

(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

#### other error properties

System reaction: Warning or Warning and power reduction

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 214 / 523613 / RailMeUn3

#### Error description RAIL PRESSURE

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-Errorcode: 214

BlinkCode (short-long-short): 1 - 3 - 4

SPN: 523613

#### possible FMI:

- 1: data valid, but below normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light  
oder

blinking. Entry in errormemory.

#### Possible reason for error

- 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 d

#### Take actions for error repair

(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

#### other error properties

System reaction: Warning or Warning and power reduction

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 215 / 523613 / RailMeUn4

#### Error description RAIL PRESSURE

Rail pressure: the fuel pressure in rail calculated by ECU is above the absolute target range

#### Error codes

DEUTZ-Errorcode: 215

BlinkCode (short-long-short): 1 - 3 - 4

SPN: 523613

#### possible FMI:

- 0: data valid, but above normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light  
oder

blinking. Entry in errormemory.

#### Possible reason for error

- 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

#### Take actions for error repair

(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

#### other error properties

System reaction: Warning or Warning and power reduction

Behaviour error lamp: permanent light

oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 216 / 523613 / RailMeUn7

#### Error description RAIL PRESSURE

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-Errorcode: 216

BlinkCode (short-long-short): 1 - 3 - 4

SPN: 523613

#### possible FMI:

- 2: data stream is defective
- 12: Errorcode not identifiable
- 12: Errorcode not identifiable
- 12: Errorcode not identifiable

#### Errordetection

Errorlamp shows permanent light  
oder

blinking. Entry in errormemory.

#### Possible reason for error

- 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 d

#### Take actions for error repair

(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

#### other error properties

System reaction: Warning or Warning and power reduction

Behaviour error lamp: permanent light  
oder

blinking

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 218 / 523490 / SOPTst

#### Error description REDUNDANT SHUT OFF DET.

Internal hardware monitoring: the ECU finds a disturbance in the redundant switch off path through a test during the ramp up phase

#### Error codes

DEUTZ-Errorcode: 218

BlinkCode (short-long-short): 1 - 4 - 9

SPN: 523490

#### possible FMI:

- 12: Errorcode not identifiable
- 12: Defective component
- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Test of redundant shut-off paths

#### Take actions for error repair

Could be triggered by over/undervoltage or external Watchdog

#### other error properties

System reaction: Test will only be executed with ECU

Initialisation. Warning, dependent upon application.

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: -

### 219 / 1079 / SSpMon1

#### Error description 5V SUPPLY 1 FAIL.

Internal hardware monitoring: the ECU detects a deviation of the target range of the power supply voltage of sensor 1

#### Error codes

DEUTZ-Errorcode: 219

BlinkCode (short-long-short): 2 - 8 - 2

SPN: 1079

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 12: Errorcode not identifiable
- 12: Errorcode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

5V sensor supply voltage 1 outside target range, operating voltage too high or to low, connection cable damaged, ECU defective

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 221 / 1080 / SSpMon2

#### Error description 5V SUPPLY 2 FAIL.

Internal hardware monitoring: the ECU detects a deviation of the target range of the power supply voltage of sensor 2

#### Error codes

DEUTZ-Errorcode: 221

BlinkCode (short-long-short): 2 - 8 - 2

SPN: 1080

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

5V sensor supply voltage 2 outside target range, operating voltage too high or to low, connection cable damaged, ECU defective

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 222 / 523601 / SSpMon3

#### Error description 5V SUPPLY 3 FAIL.

Internal hardware monitoring: the ECU detects a deviation of the target range of the power supply voltage of sensor 3

#### Error codes

DEUTZ-Errorcode: 222

BlinkCode (short-long-short): 2 - 8 - 2

SPN: 523601

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Wrong voltage of internal 5V reference source 3, operating voltage too high or too low, connection cable damaged, ECU defective

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: actual value

### 223 / 677 / StrtCDHS

#### Error description START RELAY

Start relay (high side power stage): the current drain measured by ECU is above the target range

#### Error codes

DEUTZ-Errorcode: 223

BlinkCode (short-long-short): 5 - 1 - 2

SPN: 677

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Start relay (high side): short circuit, relay defective, connection cable defective

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 224 / 677 / StrtCDLS

#### Error description START RELAY

start relay (low side power stage): the current drain measured by ECU is out of the target range

#### Error codes

DEUTZ-Errorcode: 224

BlinkCode (short-long-short): 5 - 1 - 2

SPN: 677

#### possible FMI:

- 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
- 12: Errormode not identifiable

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Start relay (low side): cable break or short circuit, disabled by ECU, relay defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shutoff output

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: default value

### 225 / 624 / SysLamp

#### Error description DIAGNOSTIC LAMP

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-Errorcode: 225

BlinkCode (short-long-short): 5 - 1 - 3

SPN: 624

#### possible FMI:

- 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

#### Errorredetection

Errorlamp shows -. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, disabled by ECU, lamp defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: only error memory item

Behaviour error lamp: -

Selfhealing: no

Signal Priority: 2

Measurement @ errortime: setpoint Diagnosticlamp

### 226 / 158 / T15CD

#### Error description TERMINAL 15

Terminal 15: ECU receives no signal

#### Error codes

DEUTZ-Errorcode: 226

BlinkCode (short-long-short): 5 - 1 - 4

SPN: 158

#### possible FMI:

- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Defective component
- 12: Errormode not identifiable

#### Errorredetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Ignition ON not detected, ignition switch defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, engine can not start

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 2

Measurement @ errortime: actual value



### 227 / 523550 / T50CD

#### Error description TERMINAL 50

Terminal 50: ECU receives a permanent signal

#### Error codes

DEUTZ-Errorcode: 227

BlinkCode (short-long-short): 5 - 1 - 5

SPN: 523550

#### possible FMI:

- 12: Defective component
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Engine start switch stuck, start switch clamped, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 1

Measurement @ errortime: actual value

### 228 / 523550 / TPUMon

#### Error description TERMINAL 50

Internal hardware monitoring: ECU detects a deviation between the signal of time module and the system time

#### Error codes

DEUTZ-Errorcode: 228

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 523550

#### possible FMI:

- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 2: data stream is defective

#### Errordetection

Errorlamp shows blinking. Entry in errormemory.

#### Possible reason for error

Time processing unit (TPU) defective, ECU defective

#### Take actions for error repair

If error not removable, change ECU

#### other error properties

System reaction: Recovery of ECU

Behaviour error lamp: blinking

Selfhealing: no

Signal Priority: 5

Measurement @ errortime: -

### 232 / 84 / VSSCD1

#### Error description VEHICLE SPEED

Vehicle speed: over the maximum, signal invalid or implausible compared with the injection quantity and the engine speed, offset factors unlearned

#### Error codes

DEUTZ-Errorcode: 232

BlinkCode (short-long-short): 5 - 2 - 1

SPN: 84

#### possible FMI:

- 0: data valid, but above normal working area
- 12: Defective component
- 8: unusual frequency, pulse or period.
- 14: Special Instructions

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Speed above target range, signal invalid or implausible compared to injection volume and engine speed, distance factor not learned, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 235 / 523600 / WdCom

#### Error description SERIAL INTERFACE DEF.

Internal hardware monitoring: the ECU detects a disturbance in internal communication

#### Error codes

DEUTZ-Errorcode: 235

BlinkCode (short-long-short): 5 - 5 - 5

SPN: 523600

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Defective component

#### Errordetection

Errorlamp shows blinking. Entry in errormemory.

#### Possible reason for error

Communication disturbed, ECU defective

#### Take actions for error repair

If error not to removable, change ECU

#### other error properties

System reaction: Recovery of ECU

Behaviour error lamp: blinking

Selfhealing: no

Signal Priority: 5

Measurement @ errortime: -

### 236 / 523470 / PRVMonSysReac

#### Error description RAIL PRESS. LIM. VALVE

Rail pressure relief valve: is open, will be forced to open, the forced-open failed: the ECU activates a system reaction

#### Error codes

DEUTZ-Errorcode: 236

BlinkCode (short-long-short): 1 - 4 - 6

SPN: 523470

#### possible FMI:

- 12. Defective component
- 12. Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light, 15s before shut off. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, shut the engine off in about 5 minutes

Behaviour error lamp: permanent light, 15s before shut off

Selfhealing: no

Signal Priority: 4

Measurement @ errortime: actual value

### 237 / 523006 / APPCDSwtnSel

#### Error description CONTR. MODE SWITCH

Controller mode switch: the signal received by ECU is defective or implausible.

#### Error codes

DEUTZ-Errorcode: 237

BlinkCode (short-long-short): 2 - 4 - 2

SPN: 523006

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 2: data stream is defective
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break, signal implausible, switch defective, connection cable damaged

#### Take actions for error repair

Check switch and if necessary replace it, check connection cable and if necessary repair or replace it

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 2

Measurement @ errortime: actual value

### 238 / 523007 / FrmMng\_TORxEngPress

Error description CAN ERROR RxEngPress.

#### Error codes

DEUTZ-Errorcode: 238

BlinkCode (short-long-short): 2 - 1 - 5

SPN: 523007

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

#### Take actions for error repair

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 1

Measurement @ errortime: default value

### 239 / 523008 / MplCtl

Error description MANIPULATION CONTROL

Data monitoring: the torque curve does not match the specification

#### Error codes

DEUTZ-Errorcode: 239

BlinkCode (short-long-short): 4 - 2 - 4

SPN: 523008

#### possible FMI:

- 1: data valid, but below normal working area
- 2: data stream is defective
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows . Entry in errormemory.

#### Possible reason for error

Manipulation of Topcurve detected, data manipulation, too slow changed curve

#### Take actions for error repair

#### other error properties

System reaction:

Behaviour error lamp:

Selfhealing: -

Signal Priority: 3

Measurement @ errortime:

### 240 / 98 / OLSCD

Error description OIL LEVEL SWITCH

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-Errorcode: 240

BlinkCode (short-long-short): 2 - 1 - 1

SPN: 98

#### possible FMI:

- 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

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

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, chec

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 241 / 98 / OLSCDSysReacHi

#### Error description OIL LEVEL SWITCH

Oil level: the oil level calculated by ECU is above the target range; the ECU activates a system reaction

#### Error codes

DEUTZ-Errorcode: 241

BlinkCode (short-long-short): 2 - 5 - 1

SPN: 98

#### possible FMI:

- 0: data valid, but above normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Oil level too high with system reaction, oil volume too large, sensor defective, connection cable damaged, CAN data error

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: OLSCD\_stSysReacReq

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 242 / 107 / ADPSCDAna

#### Error description AIR FILTER COND.

Air filter differential pressure sensor: the voltage of sensor measured by ECU is out of the target range

#### Error codes

DEUTZ-Errorcode: 242

BlinkCode (short-long-short): 1 - 3 - 6

SPN: 107

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Voltage outside target range, sensor defective, connection cable damaged

#### Take actions for error repair

Check cable harness, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 243 / 98 / OLSCDSysReacLo

#### Error description OIL LEVEL SWITCH

Oil level: the oil level calculated by ECU is underneath the target range; the ECU activates a system reaction

#### Error codes

DEUTZ-Errorcode: 243

BlinkCode (short-long-short): 2 - 5 - 2

SPN: 98

#### possible FMI:

- 1: data valid, but below normal working area
- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Oil level too low with system reaction, oil volume too small, sensor defective, connection cable damaged, CAN data error

#### Take actions for error repair

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

#### other error properties

System reaction: Advice: OLSCD\_stSysReacReq

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: actual value

### 244 / 523009 / PrvMonWear

#### Error description REPL. RAIL PRESS. VALVE

Rail pressure relief valve: is open more frequently or for a longer time than what the technical specification allows

#### Error codes

DEUTZ-Errorcode: 244

BlinkCode (short-long-short): 2 - 5 - 3

SPN: 523009

#### possible FMI:

- 9: Abnormal update rated
- 10: Abnormal rate of change
- 14: Special Instructions
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

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

#### Take actions for error repair

Change rail pressure relief valve and remove the error through Serdia command

#### other error properties

System reaction: permanent error message, unerasable by "Clear EM"

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: actual value

### 245 / 523010 / RailMeUn8

#### Error description LEAKAGE DETECTION

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-Errorcode: 245

BlinkCode (short-long-short): 2 - 5 - 4

SPN: 523010

#### possible FMI:

- 0: data valid, but above normal working area
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

#### Take actions for error repair

#### other error properties

System reaction:

Behaviour error lamp: permanent light

Selfhealing: no

Signal Priority: 3

Measurement @ errortime: actual value

### 246 / 523650 / FISys\_FLPFMSysReac

#### Error description

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

#### Error codes

DEUTZ-Errorcode: 246

BlinkCode (short-long-short): 5 - 4 - 1

SPN: 523650

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Diesel fuel pressure below target range with system reaction, interruption in cycling process of low fuel pressure (for example, fuel pump defective), sensor defective, connection cable damaged

#### Take actions for error repair

Check Diesel low fuel pressure loop system, Check electrical 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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 4

Measurement @ errortime: default value

### 247 / 523651 / FISys\_FTSFMSysReac

#### Error description

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

#### Error codes

DEUTZ-Errorcode: 247

BlinkCode (short-long-short): 5 - 4 - 2

SPN: 523651

#### possible FMI:

- 2: data stream is defective
- 2: data stream is defective
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Rape oil fuel temperature above target range with system reaction, interruption of rape oil fuel loop (for example, heat exchanger not working properly), sensor defective, connection cable damaged

#### Take actions for error repair

Check rape oil fuel system as well as heat exchanger and heat exchanger valve, if necessary repair it, check sensor and if necessary replace it, check connection cable and if necessary repair or replace it

#### other error properties

System reaction: Warning and switchover to Diesel operation mode

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 248 / 523652 / FISys\_FlushStateEngineOff

#### Error description

Engine shut off without flushing or flushing was not already completed. ECU stores every shutoff with uncompleted or missing flushing process

#### Error codes

DEUTZ-Errorcode: 248

BlinkCode (short-long-short): 5 - 4 - 3

SPN: 523652

#### possible FMI:

- 2: data stream is defective
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Engine shut off without flushing of the fuel system in Diesel operation mode, Shutoff before flushing in Diesel operation mode was finished

#### Take actions for error repair

Awaiting complete flushing of the fuel system everytime before engine shut off

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: -

### 249 / 523653 / FISys\_RapeOilHeatEx

#### Error description RAPEOILSYSTEM

Awaited temperatur rise with opened heat exchanger valve did not occur. Error in fuel heating system.

#### Error codes

DEUTZ-Errorcode: 249

BlinkCode (short-long-short): 5 - 4 - 4

SPN: 523653

#### possible FMI:

- 2: data stream is defective
- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Fuel heating system (heat exchanger) not working correctly

#### Take actions for error repair

Check Heat exchanger and heat exchanger valve, check cooling system going to the heat exchanger, check rape oil system going to the heat exchanger

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: -

### 250 / 523654 / FrmMngDieselLvl

#### Error description RAPEOILSYSTEM

Status DieselLvl (Diesel tank level): the voltage of the sensor measured by ECU is out of the target range

#### Error codes

DEUTZ-Errorcode: 250

BlinkCode (short-long-short): 5 - 4 - 5

SPN: 523654

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, sensor defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 251 / 523655 / FrmMngFuelTemp

#### Error description RAPEOILSYSTEM

Status FuelTemp (Fuel Temperature): the voltage of the sensor measured by ECU is out of the target range

#### Error codes

DEUTZ-Errorcode: 251

BlinkCode (short-long-short): 5 - 4 - 6

SPN: 523655

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, lamp defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 252 / 523656 / FrmMngLowPressureDiesel

#### Error description RAPEOILSYSTEM

Status LowPressureDiesel (Low fuel pressure diesel): the voltage of the sensor measured by ECU is out of the target range

#### Error codes

DEUTZ-Errorcode: 252

BlinkCode (short-long-short): 5 - 4 - 7

SPN: 523656

#### possible FMI:

3: Voltage to high or short circuit to +Ubatt

4: Voltage to low or short circuit to -Ubatt

12. Errormode not identifiable

12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, lamp defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 253 / 523657 / FrmMngRapeOilIn

#### Error description RAPEOILSYSTEM

CAN messageRapeOilIn (Rape oil input): the message can not be received by ECU

#### Error codes

DEUTZ-Errorcode: 253

BlinkCode (short-long-short): 5 - 6 - 1

SPN: 523657

#### possible FMI:

- 12: Defective component
- 12: Errormode not identifiable
- 12: Defective component
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

CAN bus wrong cabled, wiring is damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute values

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 254 / 523658 / FrmMngRapeOilLvl

#### Error description RAPEOILSYSTEM

Status RapeOilLvl (Rape oil tank level): the voltage of the sensor measured by ECU is out of the target range

#### Error codes

DEUTZ-Errorcode: 254

BlinkCode (short-long-short): 5 - 6 - 2

SPN: 523658

#### possible FMI:

- 3: Voltage to high or short circuit to +Ubatt
- 4: Voltage to low or short circuit to -Ubatt
- 12: Errormode not identifiable
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, lamp defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute value

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 255 / 523659 / FrmMngRapeOilVlv1

#### Error description RAPEOILSYSTEM

Status RapeOilVlv1 (Valve 1): the current drain measured by ECU is out of the target range or the maximum permissible temperature of the ECU component is exceeded

#### Error codes

DEUTZ-Errorcode: 255

BlinkCode (short-long-short): 5 - 6 - 3

SPN: 523659

#### possible FMI:

- 12: Errormode not identifiable
- 12: Errormode not identifiable
- 12: Defective component
- 12: Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, valve defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning and switchover to Diesel operation mode

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value



### 256 / 523660 / FrmMngRapeOilVlv2

#### Error description RAPEOILSYSTEM

Status RapeOilVlv2 (Valve 2): the current drain measured by ECU is out of the target range or the maximum permissible temperature of the ECU component is exceeded

#### Error codes

DEUTZ-Errorcode: 256

BlinkCode (short-long-short): 5 - 6 - 4

SPN: 523660

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12: Defective component
- 12. Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, valve defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning and switchover to Diesel operation mode

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 257 / 523661 / FrmMngRapeOilVlv3

#### Error description RAPEOILSYSTEM

Status RapeOilVlv3 (Valve 3): the current drain measured by ECU is out of the target range or the maximum permissible temperature of the ECU component is exceeded

#### Error codes

DEUTZ-Errorcode: 257

BlinkCode (short-long-short): 5 - 6 - 5

SPN: 523661

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12: Defective component
- 12. Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, valve defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning and switchover to Diesel operation mode

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 258 / 523662 / FrmMngRapeOilVlv4

#### Error description RAPEOILSYSTEM

Status RapeOilVlv4 (Valve 4): the current drain measured by ECU is out of the target range or the maximum permissible temperature of the ECU component is exceeded

#### Error codes

DEUTZ-Errorcode: 258

BlinkCode (short-long-short): 5 - 6 - 6

SPN: 523662

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12: Defective component
- 12. Errormode not identifiable

#### Error detection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, valve defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 259 / 523663 / FrmMngRapeOilVlv5

#### Error description RAPEOILSYSTEM

Status RapeOilVlv5 (Valve 5): the current drain measured by ECU is out of the target range or the maximum permissible temperature of the ECU component is exceeded

#### Error codes

DEUTZ-Errorcode: 259

BlinkCode (short-long-short): 5 - 6 - 7

SPN: 523663

#### possible FMI:

- 12. Errormode not identifiable
- 12. Errormode not identifiable
- 12: Defective component
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

Cable break or short circuit, valve defective, connection cable damaged

#### Take actions for error repair

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

#### other error properties

System reaction: Warning

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value

### 260 / 523664 / FrmMngSTIN1RX

#### Error description RAPEOILSYSTEM

CAN message STIN1 (State Inputs 1): the message can not be received by ECU

#### Error codes

DEUTZ-Errorcode: 260

BlinkCode (short-long-short): 5 - 6 - 8

SPN: 523664

#### possible FMI:

- 12: Defective component
- 12. Errormode not identifiable
- 12: Defective component
- 12. Errormode not identifiable

#### Errordetection

Errorlamp shows permanent light. Entry in errormemory.

#### Possible reason for error

CAN bus wrong cabled, wiring is damaged, receiver (sender of the message) work inaccurately, parametering inaccurate

#### Take actions for error repair

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

#### other error properties

System reaction: Warning, substitute values

Behaviour error lamp: permanent light

Selfhealing: yes

Signal Priority: 3

Measurement @ errortime: default value