

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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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

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Diagnosis- and Errorcodes

referenced ECU-Software
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P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

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referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

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 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

Error detection

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

Error detection

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

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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

Error detection

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

Error detection

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

Error detection

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

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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

Error detection

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

Error detection

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

Error detection

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

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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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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: Error mode not identifiable

Error detection

Error lamp 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 @ error time: 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

Error lamp 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 @ error time: 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: Error mode not identifiable
- 12: Error mode not identifiable
- 12: Error mode not identifiable
- 12: Error mode not identifiable

Error detection

Error lamp 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 @ error time: setpoint for output status

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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 camschaft: 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

Error detection

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 camschaft sensor wheel, polarisation crankschaft or camschaft sensor, check position of sensor wheel and if necessary correct it, check cabling and if necessary correct it

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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 +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

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 +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 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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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 WtLvl

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

Error detection

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

Error detection

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 value

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

Error detection

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 value

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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 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

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

Error detection

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 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

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

Error detection

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 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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



139 / 1638 / HOTSCD

Error description CUSTOMER TEMPSENS 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

Error detection

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 TEMPSENS 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

Error detection

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

Error detection

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: -

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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 errormemory.

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 errormemory.

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 nummer 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 errormemory.

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 nummer 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: -

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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_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: -

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

Error detection

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

Error detection

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: -

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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 switch 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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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 swith 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

Error detection

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 swith 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

Error detection

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

Error detection

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:

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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 scheduling, 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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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 +U_{batt}
- 4: Voltage to low or short circuit to -U_{batt}
- 2: data stream is defective
- 2: data stream is defective

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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 clamped 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

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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: 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

218 / 523490 / SOPTst

Error description REDUNDANT SHUT OFF DET.

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

Error codes

DEUTZ-Errorcode: 218

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

SPN: 523490

possible FMI:

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

Error detection

Errorlamp shows permanent light. Entry in errormemory.

Possible reason for error

5V sensor supply voltage 2 outside target range, 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

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Errordetection

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

Errordetection

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

Errordetection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

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: 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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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: -

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software

P490_ : 220, 310, 501

P491_ : 220, 310, 400, 501

P492_ : 213

P513_ : 214, 300



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

Error detection

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

Error detection

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

Error detection

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

Error detection

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

Error detection

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

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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

DTC-List

Diagnosis- and Errorcodes

referenced ECU-Software
P490_ : 220, 310, 501
P491_ : 220, 310, 400, 501

P492_ : 213
P513_ : 214, 300



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

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

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

Error detection

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 scheduling, 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