

# 2014\_04 BMW Vehicle Diagnostic Report

## Vehicle Information

2014\_04/BMW/4'/420i\_N20/  
VIN: WBA4A1106FD400288

Odometer Reading: 207418km  
License Plate: JJHGGGBN

## Customer Information

Name: --  
Tel: --

## Device information

Scanner: MaxiCheck MX900  
Version: V9.00  
Serial Number: DR8GS1C01666  
Repair Order Number: DR8GS1C0166620251117003418268

## System Scanned ( 25 )

| System                                     | Status/DTC                                                                              |
|--------------------------------------------|-----------------------------------------------------------------------------------------|
| DME (Engine-Digital Motor Electronics)     |  20  |
| EGS (Electronic Transmission Management)   |  4   |
| DSC (Dynamic Stability Control)            |  5   |
| ACSM (Airbag-Advanced Crash Safety Module) |  3  |
| KOMBI (Instrument Cluster)                 |  1 |
| FEM (Front Electronic Module)              |  8 |
| TRSVc (All Round View Camera)              |  4 |
| HKFM (Rear Tailgate Function Module)       |  0 |
| ZGM (Central Gateway Module)               |  2 |
| EKPS (Electric Fuel Pump Control)          |  0 |
| ICM (Integrated Chassis Management)        |  1 |
| EPS (Electric Power Steering)              |  2 |
| TBX (Touchbox)                             |  1 |
| STML (Left Hand Headlamp Driver Module)    |  0 |
| STMR (Right Hand Headlamp Driver Module)   |  0 |
| LHML (Left Hand LED Main Headlamp Module)  |  4 |
| LHMR (Right Hand LED Main Headlamp Module) |  4 |
| FZD (Roof Function Center)                 |  0 |
| GWS (Gear Selector Switch)                 |  1 |
| FLA (High Beam Assist)                     |  4 |

|                                                    |                                                                                        |
|----------------------------------------------------|----------------------------------------------------------------------------------------|
| HUH (Headunit High)                                |  0  |
| CON (Controller)                                   |  1  |
| SMFA (Driver Seat Module)                          |  7  |
| REM (Rear Electronic Module)                       |  17 |
| IHKA (Integrated Automatic Heating And A/C System) |  8  |

## DTC ( 97 )

### DME (Engine-Digital Motor Electronics) ( 20 DTCs )

| DTC    | Description                                                                      | Status       |
|--------|----------------------------------------------------------------------------------|--------------|
| 140010 | Combustion misfires, several cylinders: detected                                 | Intermittent |
| 140210 | Combustion misfire, cylinder 2: detected                                         | Intermittent |
| 140001 | Misfire, several cylinders: fuel injection is cut out                            | Intermittent |
| 140110 | Combustion misfire, cylinder 1: detected                                         | Intermittent |
| 122004 | Bypass blow-off valve, activation: line disconnection                            | Intermittent |
| 130004 | VANOS solenoid valve, inlet, activation: line disconnection                      | Intermittent |
| 1C0204 | Engine oil pressure control valve, activation: Line disconnection                | Intermittent |
| 120408 | Charging pressure control: Switch-off as consequence                             | Intermittent |
| 140101 | Misfire, cylinder 1: fuel injection is cut out                                   | Intermittent |
| 140201 | Misfire, cylinder 2: fuel injection is cut out                                   | Intermittent |
| 140004 | Misfire, several cylinders: damaging exhaust gas                                 | Intermittent |
| 140204 | Misfire, cylinder 2: damaging exhaust gas                                        | Intermittent |
| 121001 | Charging pressure sensor, electrical: short circuit to B+                        | Intermittent |
| 108A10 | Charge-air temperature sensor, voltage change: too fast                          | Intermittent |
| 134F02 | Valvetronic, adjustment range: stop not learned                                  | Permanent    |
| 140310 | Combustion misfire, cylinder 3: detected                                         | Intermittent |
| 140301 | Misfire, cylinder 3: fuel injection is cut out                                   | Intermittent |
| 120308 | Charge-air pressure control, plausibility Pressure too low                       | Intermittent |
| 102001 | Air mass, plausibility: Air mass too high                                        | Intermittent |
| 108F01 | Intake plenum: Suspicion of leaks between exhaust turbocharger and intake valves | Intermittent |

### EGS (Electronic Transmission Management) ( 4 DTCs )

| DTC    | Description                                                         | Status       |
|--------|---------------------------------------------------------------------|--------------|
| 420634 | Position sensor: parking lock in intermediate position for too long | Intermittent |

|        |                                                                                                                |              |
|--------|----------------------------------------------------------------------------------------------------------------|--------------|
| 420641 | Parking lock defectively engaged: plausibility, driver's command/sensor feedback                               | Intermittent |
| 420652 | Parking lock defectively disengaged: plausibility, driver's command/sensor feedback                            | Intermittent |
| CF2C21 | Signal (actual engine speed, crankshaft - signals a poor quality useful signal) undefined, transmitter DME/DDE | Intermittent |

**DSC (Dynamic Stability Control) ( 5 DTCs )**

| DTC    | Description                                           | Status       |
|--------|-------------------------------------------------------|--------------|
| 480964 | DSC: Undervoltage at control unit, intensive          | Intermittent |
| 4809AB | DSC: Undervoltage in vehicle                          | Intermittent |
| 48071C | DSC unit: internal, pump, supply voltage              | Intermittent |
| D3542C | KOMBI interface (outside temperature): Signal invalid | Intermittent |
| 480A90 | DSC: Roller brake tester mode active                  | Intermittent |

**ACSM (Airbag-Advanced Crash Safety Module) ( 3 DTCs )**

| DTC    | Description                                             | Status       |
|--------|---------------------------------------------------------|--------------|
| 930994 | Safety battery terminal: Resistance too high            | Intermittent |
| 930AA1 | Crash safety module: Undervoltage                       | Intermittent |
| 930AA3 | Crash safety module: Undervoltage detected in self-test | Intermittent |

**KOMBI (Instrument Cluster) ( 1 DTC )**

| DTC    | Description                                                      | Status       |
|--------|------------------------------------------------------------------|--------------|
| B7F655 | Instrument panel: Outside temperature sensor Short circuit to B+ | Intermittent |

**FEM (Front Electronic Module) ( 8 DTCs )**

| DTC    | Description                                                                 | Status       |
|--------|-----------------------------------------------------------------------------|--------------|
| 030410 | Multifunction steering wheel (MFL): Missing LIN slave                       | Intermittent |
| 80402F | Power management, battery condition: Total discharge                        | Intermittent |
| 80417B | Evaluation electronics, contact-free tailgate opening: Top sensor faulty    | Intermittent |
| 80417C | Evaluation electronics, contact-free tailgate opening: Bottom sensor faulty | Intermittent |
| 8041BA | AHL system faulty                                                           | Intermittent |
| 804255 | Exterior mirror, right Poti faulty                                          | Intermittent |
| D90D29 | Rain-light-solar-condensation sensor: Missing LIN slave                     | Intermittent |
| D90D38 | Interior light electronics: No LIN-slave                                    | Intermittent |

**TRSVCA (All Round View Camera) ( 4 DTCs )**

| DTC | Description | Status |
|-----|-------------|--------|
|-----|-------------|--------|

|        |                                                            |              |
|--------|------------------------------------------------------------|--------------|
| 800B9F | TRSVc: undervoltage                                        | Intermittent |
| CAAC0D | CAS / FEM interface (ZV and lid status): Signal invalid    | Intermittent |
| 800BAA | TRSVc: CVBS output, open circuit or not connected          | Intermittent |
| CAAC0F | Interface INSTR. CL. (outside temperature): signal invalid | Intermittent |

**ZGM (Central Gateway Module) ( 2 DTCs )**

| DTC    | Description                                            | Status       |
|--------|--------------------------------------------------------|--------------|
| CD0487 | ZGM: Synchronisation process for FlexRay failed        | Intermittent |
| 801C20 | ZGM: central fault memory full - no control-unit fault | Permanent    |

**ICM (Integrated Chassis Management) ( 1 DTC )**

| DTC    | Description                                                               | Status       |
|--------|---------------------------------------------------------------------------|--------------|
| D0142C | Instrument panel interface (ambient temperature, 252.1.4): Signal invalid | Intermittent |

**EPS (Electric Power Steering) ( 2 DTCs )**

| DTC    | Description                                                               | Status       |
|--------|---------------------------------------------------------------------------|--------------|
| D5142C | Instrument panel interface (ambient temperature, 252.1.4): Signal invalid | Intermittent |
| 4823D4 | EPS voltage supply: Undervoltage in vehicle                               | Intermittent |

**TBX (Touchbox) ( 1 DTC )**

| DTC    | Description       | Status       |
|--------|-------------------|--------------|
| 806182 | TBX: Undervoltage | Intermittent |

**LHML (Left Hand LED Main Headlamp Module) ( 4 DTCs )**

| DTC    | Description                                                                      | Status       |
|--------|----------------------------------------------------------------------------------|--------------|
| 8059C8 | LHM2_L: internal control unit fault                                              | Intermittent |
| 8059C9 | LHM2_L: Undervoltage                                                             | Intermittent |
| D9D40B | Signal (vehicle speed) invalid, transmitter ICM                                  | Intermittent |
| D9D411 | Signal (status of exterior light operation) invalid, transmitter FRM / FEM / BDC | Intermittent |

**LHMR (Right Hand LED Main Headlamp Module) ( 4 DTCs )**

| DTC    | Description                                                                      | Status       |
|--------|----------------------------------------------------------------------------------|--------------|
| 805B48 | LHM2_R: internal control unit fault                                              | Intermittent |
| 805B49 | LHM2_R: Undervoltage                                                             | Intermittent |
| DA140B | Signal (vehicle speed) invalid, transmitter ICM                                  | Intermittent |
| DA1411 | Signal (status of exterior light operation) invalid, transmitter FRM / FEM / BDC | Intermittent |

**GWS (Gear Selector Switch) ( 1 DTC )**

| DTC | Description | Status |
|-----|-------------|--------|
|-----|-------------|--------|

|        |                              |           |
|--------|------------------------------|-----------|
| 802680 | Function indicator defective | Permanent |
|--------|------------------------------|-----------|

**FLA (High Beam Assist) ( 4 DTCs )**

| DTC    | Description                                          | Status       |
|--------|------------------------------------------------------|--------------|
| 800605 | Temperature above the operating range                | Intermittent |
| 800606 | Undervoltage detected                                | Intermittent |
| 800608 | Sensor field of view concealed                       | Intermittent |
| E0EC0F | KOMBI interface (ambient temperature) signal invalid | Intermittent |

**CON (Controller) ( 1 DTC )**

| DTC    | Description       | Status       |
|--------|-------------------|--------------|
| 801405 | CON: Undervoltage | Intermittent |

**SMFA (Driver Seat Module) ( 7 DTCs )**

| DTC    | Description                                                                                    | Status       |
|--------|------------------------------------------------------------------------------------------------|--------------|
| 802981 | Hall sensor, forward/back seat adjustment: Short circuit to B+ or line disconnection           | Intermittent |
| 802983 | Hall sensor, seat height adjustment: Short circuit to B+ or line disconnection                 | Permanent    |
| 802985 | Hall sensor, backrest angle adjustment: Short circuit to B+ or line disconnection              | Permanent    |
| 8029C0 | Driver's seat adjustment switch block: Switch jammed                                           | Permanent    |
| 8029D4 | SMFA: Undervoltage detected                                                                    | Intermittent |
| 802A05 | locking protection deactivated due to lack of calibration (seat forward/back adjustment, rear) | Intermittent |
| 802A08 | Personal Profile porting restricted due to lack of calibration                                 | Permanent    |

**REM (Rear Electronic Module) ( 17 DTCs )**

| DTC    | Description                                                                                                      | Status       |
|--------|------------------------------------------------------------------------------------------------------------------|--------------|
| 030101 | Power window, rear door on driver's side: relay for closing, no output voltage                                   | Intermittent |
| 030120 | Power window, rear door on driver's side: system is not standardised.                                            | Intermittent |
| 030181 | Window regulator, passenger-side door, back: Window regulator on driver's door: relay closing, no output voltage | Intermittent |
| 030195 | Window regulator, passenger's side door, rear: invalid characteristic curve, no normalisation present            | Intermittent |
| 030198 | Power window regulator, passenger's side door, rear: deactivation of drive due to overvoltage or undervoltage    | Intermittent |

|        |                                                                                |              |
|--------|--------------------------------------------------------------------------------|--------------|
| 0301A0 | Window regulator on passenger's side door, rear: system is not normalised.     | Intermittent |
| 8031D9 | REM: Supply voltage too low                                                    | Intermittent |
| 8032B0 | Ultrasonic sensor rear outer left, signal line: Line disconnection             | Intermittent |
| 8032B8 | Ultrasonic sensors rear centre left, signal line: Line disconnection           | Intermittent |
| 8032C0 | Ultrasonic sensor, rear centre right, signal line: Line disconnection          | Intermittent |
| 8032C8 | Ultrasonic sensor, rear outer right, signal line Line disconnection            | Intermittent |
| 804811 | Undervoltage                                                                   | Intermittent |
| 804872 | Brake light, left, faulty                                                      | Intermittent |
| 804874 | Brake light, right, faulty                                                     | Intermittent |
| 804876 | Turn indicator, rear left, faulty                                              | Intermittent |
| 804877 | Turn indicator, rear right, faulty                                             | Intermittent |
| 8048C1 | Relay for heated rear window: Line to relay interrupted or short circuit to B+ | Intermittent |

### IHKA (Integrated Automatic Heating And A/C System) ( 8 DTCs )

| DTC    | Description                                                                                                 | Status       |
|--------|-------------------------------------------------------------------------------------------------------------|--------------|
| 8011B5 | Ventilation temperature sensor or ventilation temperature sensor, left: Short circuit to B+ or interruption | Intermittent |
| 8011B7 | Ventilation temperature sensor, right: Short circuit to B+ or interruption                                  | Intermittent |
| 8011B9 | Stratification control: Short circuit to B+ or interruption                                                 | Intermittent |
| 801225 | Air conditioning compressor: Shut-down due to vacuum in refrigerant circuit                                 | Intermittent |
| E71401 | Signal (ambient temperature) invalid, transmitter KOMBI                                                     | Intermittent |
| E71402 | Signal (ambient temperature not filtered) invalid, transmitter KOMBI                                        | Intermittent |
| E71445 | Signal (stratification data for rear passenger compartment climate) invalid, transmitter FEM / BDC          | Intermittent |
| E71448 | Signal (data of automatic air recirculation control sensor) invalid, transmitter FEM / BDC                  | Intermittent |

### Technician Notes

Customer name: \_\_\_\_\_

Technician: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Please save a copy of this report for your records.