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# Diagnostic Report

Created by OBDLink - OBD Solutions

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**Date:** 21.2.2024 13.50.14

**VIN:**

**Manufacturer:** BMW

**Model:**

**Year:**

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## Monitor Status Report

### ECU 7E0

| Name                    | Continuous | Status                      |
|-------------------------|------------|-----------------------------|
| Misfire                 | Yes        | ECU has completed this test |
| Fuel System             | Yes        | ECU has completed this test |
| Comprehensive Component | Yes        | ECU has completed this test |
| Catalyst                | No         | ECU has completed this test |

|                             |    |                                |
|-----------------------------|----|--------------------------------|
| Heated Catalyst             | No | ECU does not support this test |
| Evap System                 | No | ECU does not support this test |
| Secondary Air System        | No | ECU does not support this test |
| Gasoline Particulate Filter | No | ECU does not support this test |
| Oxygen Sensor               | No | ECU has completed this test    |
| Oxygen Sensor Heater        | No | ECU has completed this test    |
| EGR and/or VVT System       | No | ECU does not support this test |

### TCM-TransmisCtrl

| Name                    | Continuous | Status                         |
|-------------------------|------------|--------------------------------|
| Misfire                 | Yes        | ECU does not support this test |
| Fuel System             | Yes        | ECU does not support this test |
| Comprehensive Component | Yes        | ECU has completed this test    |
| Catalyst                | No         | ECU does not support this test |
| Heated Catalyst         | No         | ECU does not support this test |
| Evap System             | No         | ECU does not support this test |
| Secondary Air System    | No         | ECU does not support this test |

|                             |    |                                |
|-----------------------------|----|--------------------------------|
| Gasoline Particulate Filter | No | ECU does not support this test |
| Oxygen Sensor               | No | ECU does not support this test |
| Oxygen Sensor Heater        | No | ECU does not support this test |
| EGR and/or VVT System       | No | ECU does not support this test |

MIL Off

Number of Confirmed Codes: 1

Readiness Standard: None

**This vehicle is not ready for emissions testing.**

#### Reason

- ECU 7E0
  - Confirmed trouble codes have been detected

## Trouble Code Report

| ECU     | Code  | Type       | Status    | UDS Status | Description     |
|---------|-------|------------|-----------|------------|-----------------|
| ECU 7E0 | P0175 | PowerTrain | Confirmed | N/A        | System Too Rich |

#### Additional Information

| Description                             | Value | Units |
|---|-------|-------|
| Malfunction indicator lamp (MIL) status | Off   |       |

|  |       |    |
|--|-------|----|
| Freeze frame DTC                         | P0175 |    |
| Distance traveled while MIL is activated | 2     | km |
| Number of warm-ups since DTCs cleared    | 20    |    |
| Distance traveled since DTCs cleared     | 363   | km |

## Mode \$01 - Powertrain Diagnostic Data

| PID      | Description                     | Value | Units |
|----------|---------------------------------|-------|-------|
| SAE 0x03 | Fuel system 1 status            | 4     |       |
| SAE 0x03 | Fuel system 2 status            | 4     |       |
| SAE 0x04 | Calculated load value           | 4,71  | %     |
| SAE 0x05 | Engine coolant temperature      | 98    | °C    |
| SAE 0x06 | Short term fuel % trim - Bank 1 | 0     | %     |
| SAE 0x07 | Long term fuel % trim - Bank 1  | 2,34  | %     |
| SAE 0x08 | Short term fuel % trim - Bank 2 | 0     | %     |
| SAE 0x09 | Long term fuel % trim - Bank 2  | 0     | %     |
| SAE 0x0C | Engine RPM                      | 0     | RPM   |

|          |  |        |      |
|----------|--|--------|------|
| SAE 0x0D | Vehicle speed  | 0      | km/h |
| SAE 0x0E | Ignition timing advance for #1 cylinder                  | -6,5   | deg  |
| SAE 0x0F | Intake air temperature                                   | 47     | °C   |
| SAE 0x10 | Mass air flow rate                                       | 0      | g/s  |
| SAE 0x11 | Absolute throttle position                               | 16,47  | %    |
| SAE 0x13 | Location of oxygen sensors                               | 51     |      |
| SAE 0x15 | O2 voltage (Bank 1, Sensor 2)                            | 0,415  | V    |
| SAE 0x15 | Short term fuel trim (Bank 1, Sensor 2)                  | 99,219 | %    |
| SAE 0x19 | O2 voltage (Bank 2, Sensor 2)                            | 0,415  | V    |
| SAE 0x19 | Short term fuel trim (Bank 2, Sensor 2)                  | 99,219 | %    |
| SAE 0x1C | OBd requirements to which vehicle or engine is certified | 6      |      |
| SAE 0x1F | Time since engine start                                  | 0      | sec  |
| SAE 0x21 | Distance traveled while MIL is activated                 | 2      | km   |
| SAE 0x23 | Fuel rail pressure                                       | 105,88 | psi  |
| SAE 0x2C | Commanded EGR  | 4,71   | %    |
| SAE 0x2D | EGR error  | 0      | %    |
| SAE 0x2E | Commanded evaporative purge                              | 0      | %    |

|          |  |       |     |
|----------|--|-------|-----|
|          |  |       |     |
| SAE 0x2F | Fuel level input   | 41,57 | %   |
| SAE 0x30 | Number of warm-ups since DTCs cleared                          | 20    |     |
| SAE 0x31 | Distance traveled since DTCs cleared                           | 363   | km  |
| SAE 0x33 | Barometric pressure  | 0,98  | bar |
| SAE 0x34 | O2 sensor lambda wide range (current probe) (Bank 1, Sensor 1) | 1     |     |
| SAE 0x34 | O2 sensor current wide range (Bank 1, Sensor 1)                | 0     | mA  |
| SAE 0x38 | O2 sensor lambda wide range (current probe) (Bank 2, Sensor 1) | 1     |     |
| SAE 0x38 | O2 sensor current wide range (Bank 2, Sensor 1)                | 0     | mA  |
| SAE 0x3C | Catalyst temperature (Bank 1 Sensor 1)                         | 242,3 | °C  |
| SAE 0x3D | Catalyst temperature (Bank 2 Sensor 1)                         | 241,5 | °C  |
| SAE 0x42 | Control module voltage   | 11,78 | V   |
| SAE 0x43 | Absolute load value  | 39,22 | %   |
| SAE 0x44 | Fuel/Air commanded equivalence ratio                           | 1     |     |
| SAE 0x45 | Relative throttle position                                     | 7,84  | %   |
| SAE 0x46 | Ambient air temperature  | 20    | °C  |
| SAE 0x47 | Absolute throttle position B                                   | 17,25 | %   |

|          |  |       |   |
|----------|--|-------|---|
|          |  |       |   |
| SAE 0x49 | Accelerator pedal position D                   | 14,51 | % |
| SAE 0x4A | Accelerator pedal position E                   | 14,9  | % |
| SAE 0x4C | Commanded throttle actuator control            | 16,86 | % |
| SAE 0x55 | Short term secondary oxygen sensor trim bank 1 | -0,78 | % |
| SAE 0x56 | Long term secondary oxygen sensor trim bank 1  | 7,03  | % |
| SAE 0x57 | Short term secondary oxygen sensor trim bank 2 | -0,78 | % |
| SAE 0x58 | Long term secondary oxygen sensor trim bank 2  | 12,5  | % |
| Aux 0x00 | Input voltage read by the scan tool            | 12    | V |

## Mode \$02 - Freeze Frame

### First Occurrence

| Description          | Value | Units |
|----------------------|-------|-------|
| Freeze frame DTC     | P0175 |       |
| Fuel system 1 status | 2     |       |

|   |         |      |
|---|---------|------|
| Fuel system 2 status                    | 2       |      |
| Calculated load value                   | 30,98   | %    |
| Engine coolant temperature              | 40      | °C   |
| Short term fuel % trim - Bank 1         | -2,34   | %    |
| Long term fuel % trim - Bank 1          | 3,91    | %    |
| Short term fuel % trim - Bank 2         | -30,47  | %    |
| Long term fuel % trim - Bank 2          | 3,91    | %    |
| Engine RPM                              | 803     | RPM  |
| Vehicle speed                           | 5       | km/h |
| Ignition timing advance for #1 cylinder | 4       | deg  |
| Intake air temperature                  | 15      | °C   |
| Mass air flow rate                      | 6,35    | g/s  |
| Absolute throttle position              | 13,73   | %    |
| Time since engine start                 | 85      | sec  |
| Fuel rail pressure                      | 2301,75 | psi  |
| Commanded evaporative purge             | 0       | %    |
| Fuel level input                        | 57,25   | %    |



|                                      |       |     |
|--------------------------------------|-------|-----|
| Barometric pressure                  | 1,01  | bar |
| Control module voltage               | 14,24 | V   |
| Absolute load value                  | 76,86 | %   |
| Fuel/Air commanded equivalence ratio | 1     |     |
| Relative throttle position           | 3,92  | %   |
| Ambient air temperature              | -1    | °C  |
| Absolute throttle position B         | 14,12 | %   |
| Accelerator pedal position D         | 14,51 | %   |
| Accelerator pedal position E         | 14,51 | %   |
| Commanded throttle actuator control  | 3,53  | %   |

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## Mode \$05 - Oxygen Sensors

| Sensor            | Available |
|-------------------|-----------|
| Bank 1 - Sensor 1 | Yes       |
| Bank 1 - Sensor 2 | Yes       |

|                   |     |
|-------------------|-----|
| Bank 1 - Sensor 3 | No  |
| Bank 1 - Sensor 4 | No  |
| Bank 2 - Sensor 1 | Yes |
| Bank 2 - Sensor 2 | Yes |
| Bank 2 - Sensor 3 | No  |
| Bank 2 - Sensor 4 | No  |

## Mode \$06 - On-Board Monitoring

| Component  | Description   | Value  | Minimum | Maximum | Units | Result |
|--|---|--------|---------|---------|-------|--------|
| \$01 - Exhaust Gas Sensor Monitor<br>Bank 1 – Sensor 1 | TID \$83 - Manufacturer Defined                               | 0      | 0       | 0,9     |       | Pass   |
| \$02 - Exhaust Gas Sensor Monitor<br>Bank 1 – Sensor 2 | TID \$01 - Rich to lean sensor threshold voltage (constant)   | 0,6404 | 0       | 1,1     | V     | Pass   |
| \$02 - Exhaust Gas Sensor Monitor<br>Bank 1 – Sensor 2 | TID \$02 - Lean to rich sensor threshold voltage (constant)   | 0,6404 | 0       | 1,1     | V     | Pass   |
| \$02 - Exhaust Gas Sensor Monitor<br>Bank 1 – Sensor 2 | TID \$07 - Minimum sensor voltage for test cycle (calculated) | 0      | 0       | 1,1     | V     | Pass   |
| \$02 - Exhaust Gas Sensor Monitor<br>Bank 1 – Sensor 2 | TID \$08 - Maximum sensor voltage for test cycle (calculated) | 0,9093 | 0       | 1,1     | V     | Pass   |

|  |   |        |     |        |               |      |
|--|---|--------|-----|--------|---------------|------|
| \$02 - Exhaust Gas Sensor Monitor Bank 1 – Sensor 2        | TID \$81 - Manufacturer Defined                               | 0,039  | 0   | 0,9999 |               | Pass |
| \$05 - Exhaust Gas Sensor Monitor Bank 2 – Sensor 1        | TID \$83 - Manufacturer Defined                               | 0,04   | 0   | 0,9    |               | Pass |
| \$06 - Exhaust Gas Sensor Monitor Bank 2 – Sensor 2        | TID \$01 - Rich to lean sensor threshold voltage (constant)   | 0,6404 | 0   | 1,1    | V             | Pass |
| \$06 - Exhaust Gas Sensor Monitor Bank 2 – Sensor 2        | TID \$02 - Lean to rich sensor threshold voltage (constant)   | 0,6404 | 0   | 1,1    | V             | Pass |
| \$06 - Exhaust Gas Sensor Monitor Bank 2 – Sensor 2        | TID \$07 - Minimum sensor voltage for test cycle (calculated) | 0      | 0   | 1,1    | V             | Pass |
| \$06 - Exhaust Gas Sensor Monitor Bank 2 – Sensor 2        | TID \$08 - Maximum sensor voltage for test cycle (calculated) | 0,924  | 0   | 1,1    | V             | Pass |
| \$06 - Exhaust Gas Sensor Monitor Bank 2 – Sensor 2        | TID \$81 - Manufacturer Defined                               | 0,039  | 0   | 0,9999 |               | Pass |
| \$21 - Catalyst Monitor Bank 1                             | TID \$81 - Manufacturer Defined                               | 0,0312 | 0   | 1,0624 |               | Pass |
| \$22 - Catalyst Monitor Bank 2                             | TID \$81 - Manufacturer Defined                               | 0,0468 | 0   | 1,0624 |               | Pass |
| \$3D - Purge Flow Monitor                                  | TID \$81 - Manufacturer Defined                               | 0      | 0   | 0      |               | Pass |
| \$3D - Purge Flow Monitor                                  | TID \$82 - Manufacturer Defined                               | 0      | 0   | 0      |               | Pass |
| \$3D - Purge Flow Monitor                                  | TID \$83 - Manufacturer Defined                               | 0      | 0   | 0      | mg/<br>stroke | Pass |
| \$41 - Exhaust Gas Sensor Heater Monitor Bank 1 – Sensor 1 | TID \$85 - Manufacturer Defined                               | 779,9  | 680 | 2047,9 | °C            | Pass |

|  |   |       |     |        |        |      |
|--|---|-------|-----|--------|--------|------|
| \$42 - Exhaust Gas Sensor Heater Monitor Bank 1 – Sensor 2 | TID \$81 - Manufacturer Defined   | 457   | 0   | 5000   |        | Pass |
| \$45 - Exhaust Gas Sensor Heater Monitor Bank 2 – Sensor 1 | TID \$85 - Manufacturer Defined   | 780,3 | 680 | 2047,9 | °C     | Pass |
| \$46 - Exhaust Gas Sensor Heater Monitor Bank 2 – Sensor 2 | TID \$81 - Manufacturer Defined   | 569   | 0   | 5000   |        | Pass |
| \$A2 - Misfire Cylinder 1 Data                             | TID \$0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)   | 7     | 0   | 65535  | counts | Pass |
| \$A2 - Misfire Cylinder 1 Data                             | TID \$0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles | 6     | 0   | 65535  | counts | Pass |
| \$A3 - Misfire Cylinder 2 Data                             | TID \$0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)   | 5     | 0   | 65535  | counts | Pass |
| \$A3 - Misfire Cylinder 2 Data                             | TID \$0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles | 1     | 0   | 65535  | counts | Pass |
| \$A4 - Misfire Cylinder 3 Data                             | TID \$0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)   | 1     | 0   | 65535  | counts | Pass |
| \$A4 - Misfire Cylinder 3 Data                             | TID \$0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles | 4     | 0   | 65535  | counts | Pass |
| \$A5 - Misfire Cylinder 4 Data                             | TID \$0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)   | 1     | 0   | 65535  | counts | Pass |
| \$A5 - Misfire Cylinder 4 Data                             | TID \$0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles | 0     | 0   | 65535  | counts | Pass |
| \$A6 - Misfire Cylinder 5 Data                             | TID \$0C - Misfire counts for last/current driving cycles   | 5     | 0   | 65535  | counts | Pass |

|                                |   |    |   |       |        |      |
|--------------------------------|---|----|---|-------|--------|------|
|                                | (calculated, rounded to an integer value)   |    |   |       |        |      |
| \$A6 - Misfire Cylinder 5 Data | TID \$0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles | 1  | 0 | 65535 | counts | Pass |
| \$A7 - Misfire Cylinder 6 Data | TID \$0C - Misfire counts for last/current driving cycles (calculated, rounded to an integer value)   | 6  | 0 | 65535 | counts | Pass |
| \$A7 - Misfire Cylinder 6 Data | TID \$0B - EWMA (Exponential Weighted Moving Average) misfire counts for last ten (10) driving cycles | 48 | 0 | 65535 | counts | Pass |

## Mode \$09 - Vehicle Information

### General Information

| Description  | Value    |
|--|----------|
| Vehicle Identification Number                      |          |
| Calibration ID - ECU 7E0                           | 7611396  |
| Calibration ID - ECU 7E0                           | 7611465  |
| Calibration ID - TCM-TransmisCtrl                  | 7591971  |
| Calibration ID - TCM-TransmisCtrl                  | 7576836  |
| Calibration Verification Number - TCM-TransmisCtrl | FE4CC249 |

|  |          |
|--|----------|
| Calibration Verification Number - TCM-TransmisCtrl | 0000E6EB |
| Calibration Verification Number - ECU 7E0          | E7ED6C62 |
| Calibration Verification Number - ECU 7E0          | 643A2B4B |

### In-Performance Tracking

| ECU     | Counter | Description  | Value |
|---------|---------|--|-------|
| ECU 7E0 | 0x00    | OBd Monitoring Conditions Encountered Counts           | 3561  |
| ECU 7E0 | 0x01    | Ignition Cycle Counter                                 | 28409 |
| ECU 7E0 | 0x02    | Catalyst Monitor Completion Counts Bank 1              | 1675  |
| ECU 7E0 | 0x03    | Catalyst Monitor Conditions Encountered Counts Bank 1  | 3190  |
| ECU 7E0 | 0x04    | Catalyst Monitor Completion Counts Bank 2              | 1616  |
| ECU 7E0 | 0x05    | Catalyst Monitor Conditions Encountered Counts Bank 2  | 3121  |
| ECU 7E0 | 0x06    | O2 Sensor Monitor Completion Counts Bank 1             | 2588  |
| ECU 7E0 | 0x07    | O2 Sensor Monitor Conditions Encountered Counts Bank 1 | 3238  |
| ECU 7E0 | 0x08    | O2 Sensor Monitor Completion Counts Bank 2             | 2451  |
| ECU 7E0 | 0x09    | O2 Sensor Monitor Conditions Encountered Counts Bank 2 | 3138  |
| ECU 7E0 | 0x0A    | EGR and/or VVT Monitor Completion Condition Counts     | 27493 |
| ECU 7E0 | 0x0B    | EGR and/or VVT Monitor Conditions Encountered Counts   | 3561  |



