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# Comfort Unit
# for OPEL-Vauxhall
# Astra-H, Vectra-C, and Zafira-B automobiles

## User Guide – 1st Addendum

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|---|---|---|---|
| Module Type: | OCU-01 | Firmware Version: | 3.7xx / 15.08.2014 |
| Document Version: | 1.3 | Released Date: | August 16, 2014 |

| Z28NEH, Z28NEL and Z28NET - List of Displayed Parameters | | | | |
|---|---|---|---|---|
| # | ACRONYM | UNIT | PARAMETER DESCRIPTION | NOTE |
| 00 | — | — | Invisible Line | vertical space between lines |
| 01 | VSS | km/h<br>mph | Vehicle Speed | PID $0D |
| 02 | ERPM | rpm | Engine RPM | PID $0C |
| 03 | CLV | % | Calculated Load Value | PID $04 |
| 04 | ECT | °C | Engine Coolant Temperature | PID $05 |
| 05 | BOOST | kPa | Boost Pressure | |
| 06 | CMDBOOST | kPa | Commanded Boost Pressure | |
| 07 | SHRTFT | % | B1 (Bank 1) Short Term Fuel Trim | PID $06 |
| 08 | LONGTFT | % | B1 (Bank 1) Long Term Fuel Trim | PID $07 |
| 09 | EQ_RAT11 | - | B1S1 Equivalence Ratio (lambda) | PID $34 |
| 10 | EQ_RAT | - | Commanded Equivalence Ratio (lambda) | PID $44 |
| 11 | CATEMP11 | °C | B1S1 (Bank 1, Sensor 1) Catalyst Temperature | PID $3C |

| Z28NEH, Z28NEL and Z28NET - List of Displayed Parameters | | | | |
|---|---|---|---|---|
| # | ACRONYM | UNIT | PARAMETER DESCRIPTION | NOTE |
| 12 | FRP | kPa | Fuel Rail Pressure | PID $0A |
| 13 | SPARADV | ° | Ignition Timing Advance for #1 Cylinder | PID $0E |
| 14 | IAT | °C | Intake Air Temperature | PID $0F |
| 15 | MAF | g/s | Mass Air Flow Rate | PID $10 |
| 16 | BARO | kPa | Barometric Pressure | PID $33 |
| 17 | UBAT | V | Battery Voltage | |

PID Reference: ISO 15031-5:2006 Road vehicles - Communication between vehicle and external equipment for emissions-related diagnostics - Part 5: Emissions - related diagnostic services

| Z20LEH, Z20LEL and Z20LER - List of Displayed Parameters | | | | |
|---|---|---|---|---|
| # | ACRONYM | UNIT | PARAMETER DESCRIPTION | NOTE |
| 00 | — | — | Invisible Line | vertical space between lines |
| 01 | VSS | km/h<br>mph | Vehicle Speed | PID $0D |
| 02 | VACC | $m/s^2$ | Vehicle Acceleration | PID $10 |
| 03 | ERPM | rpm | Engine RPM | PID $0C |
| 04 | ECT | °C | Engine Coolant Temperature | PID $05 |
| 05 | NORMEOT | — | Normal Engine Operating Temperature | active / inactive signalization |
| 06 | FLOADE | — | Full Load Enrichment | active / inactive signalization |
| 07 | CLV | % | Calculated Load Value | PID $04 |
| 08 | CPP | % | Calculated Pedal Position | |
| 09 | CTP | % | Calculated Throttle Position | |
| 10 | BOOST | kPa | Boost Pressure | |
| 11 | BARO | kPa | Barometric Pressure | PID $33 |

| Z20LEH, Z20LEL and Z20LER - List of Displayed Parameters | | | | |
|---|---|---|---|---|
| # | ACRONYM | UNIT | PARAMETER DESCRIPTION | NOTE |
| 12 | MAF | g/s | Mass Air Flow Rate | PID $10 |
| 13 | IAT | °C | Intake Air Temperature | PID $0F |
| 14 | AAT | °C | Ambient Air Temperature | |
| 15 | INJTIM | ms | Injector Time | |
| 16 | FUELLVL | L<br>gal | Fuel Level Sensor | |
| 17 | IGNDTIM | ms | Ignition Dwell Time | |
| 18 | IGNSANG | °CA | Ignition Spark Angle | |
| 19 | SPARADV | ° | Ignition Timing Advance for #1 Cylinder | PID $0E |
| 20 | KNOCKSS | V | B1 (Bank 1) Knock Sensor Signal | |
| 21 | KR-CYL1 | °CA | Knock Retard Cylinder 1 | |
| 22 | KR-CYL2 | °CA | Knock Retard Cylinder 2 | |
| 23 | KR-CYL3 | °CA | Knock Retard Cylinder 3 | |

| Z20LEH, Z20LEL and Z20LER - List of Displayed Parameters | | | | |
|---|---|---|---|---|
| # | ACRONYM | UNIT | PARAMETER DESCRIPTION | NOTE |
| 24 | KR-CYL4 | °CA | Knock Retard Cylinder 4 | |
| 25 | SHTFT11 | % | B1S1 (Bank 1, Sensor 1) Short Term Fuel Trim | PID $14 |
| 26 | SHTFT12 | % | B1S2 (Bank 1, Sensor 2) Short Term Fuel Trim | PID $15 |
| 27 | SHRTFT | % | B1 (Bank 1) Short Term Fuel Trim | PID $06 |
| 28 | LONGTFT | % | B1 (Bank 1) Long Term Fuel Trim | PID $07 |
| 29 | O2S11 | mV | B1S1 (Bank 1, Sensor 1) $O_2$ Sensor | |
| 30 | O2S12 | mV | B1S2 (Bank 1, Sensor 2) $O_2$ Sensor | |
| 31 | CATPROE | — | B1 (Bank 1) Catalyst Protection Enrichment | active / inactive signalization |
| 32 | FANCTRL | — | Fan Control 1, 2 and 3 | active / inactive signalizations |
| 33 | ACP | kPa | A/C (Air Conditionig) Pressure | |
| 34 | UBAT | V | Battery Voltage | |