

# iDash Parameter List - 2024 GMC Sierra 3500HD Denali Ultimate 6

| AIR DENSITY |                           |          |
|-------------|---------------------------|----------|
| Label       | Description               | Unit     |
| AAD         | Density % Ambient Air     | %        |
| AAD         | Density Ambient Air       | LB/1KFT3 |
| BAD         | Density % Boost Air       | %        |
| BAD         | Density Boost Air         | LB/1KFT3 |
| CAD         | Density % Cylinder        | %        |
| CAD         | Density Cylinder          | LB/1KFT3 |
| DN-ALT      | Density Altitude          | FT       |
| J1349       | Gas Correction Factor SAE |          |
| MAD         | Density % Manifold Air    | %        |
| MAD         | Density Manifold Air      | LB/1KFT3 |
| PR-ALT      | Pressure Altitude         | FT       |
| SAT-P       | Saturation Pressure       | INHG     |
| SYS-DR      | Density Ratio System      |          |
| VAP-P       | Vapor Pressure            | INHG     |

| DIAGNOSTICS |                                |       |
|-------------|--------------------------------|-------|
| Label       | Description                    | Unit  |
| DTCTRV      | Distance Since DTCS Cleared    | MILES |
| ENGLD       | Idle Run Time                  | HR    |
| ENGRUN      | Total Engine Run Time          | HR    |
| FLAG        | Flag                           |       |
| MIL         | MIL Status                     |       |
| MILDIS      | Dist Traveled While MIL Active | MILES |
| RUN TM      | Engine Run Time                | SEC   |
| TIME        | Time Data Log                  | S     |
| WARMUP      | Warmups Since DTCS Cleared     | COUNT |

| EMISSIONS |                                   |        |
|-----------|-----------------------------------|--------|
| Label     | Description                       | Unit   |
| BPS M     | Monitor - Boost Pressure System   |        |
| COMP M    | Monitor - Comprehensive Component |        |
| DEF CMD   | AVG DEF Commanded                 | GAL/HR |
| DEF CON   | DEF Concentration                 | %      |
| DEFLOW    | DEF Fluid Level Low               |        |
| DEF LVL   | DEF Fluid Level                   | %      |
| DEF_L     | DEF Tank Level                    | %      |
| DEF_T     | DEF Tank Temperature              | °F     |
| DPF RG    | DPF Regen Trigger                 |        |
| DPFDIS    | Avg Distance Between DPF Regen    | MILES  |
| DPFTIM    | Avg Time Between DPF Regen        | MIN    |
| EGR M     | Monitor - EGR and/or VVT System   |        |
| EGR ACT   | EGR Duty Cycle Actual             | %      |
| EGR CMD   | EGR Duty Cycle Commanded          | %      |
| EGR ERR   | EGR Error                         | %      |
| EGR POS   | EGR Position                      | %      |
| FUEL M    | Monitor - Fuel System             |        |
| HCCAT     | Monitor - NMHC Catalyst           |        |
| MIS M     | Monitor - Misfire                 |        |
| NOX1/1    | NOX Bank 1 Sensor 1               | PPM    |
| NOX1/2    | NOX Bank 1 Sensor 2               | PPM    |
| NOXC11    | NOX Corrected Bank 1 Sensor 1     | PPM    |
| NOXC12    | NOX Corrected Bank 1 Sensor 2     | PPM    |
| PM 1      | % Particulate Matter Bank 1       | %      |
| PMF M     | Monitor - PM Filter               |        |
| REGEN     | Dpf Regen Status                  |        |
| SCRSTA    | SCR Inducement State              |        |

| ENGINE PERFORMANCE AIR |                     |        |
|------------------------|---------------------|--------|
| Label                  | Description         | Unit   |
| CFMAMB                 | CFM Ambient         | CFM    |
| CFMENG                 | CFM Engine          | CFM    |
| CYL RAT                | Cylinder Fill Ratio | %      |
| MAF                    | Mass Air Flow       | GRAM/S |
| THRT-C                 | Throttle Commanded  | %      |
| THRT-P                 | Throttle Position   | %      |
| VT CMD                 | Turbo Vane Command  | %      |
| VT POS                 | Turbo Vane Position | %      |

| ENGINE PERFORMANCE FUEL |                                       |           |
|-------------------------|---------------------------------------|-----------|
| Label                   | Description                           | Unit      |
| AFR1/1                  | Air Fuel Ratio Bank1 Sensor1          | AFR       |
| AFR1/2                  | Air Fuel Ratio Bank1 Sensor2          | AFR       |
| AFR CMD                 | Air Fuel Ratio Commanded              | AFR       |
| CYL R                   | Cylinder Fuel Rate                    | MG/STROKE |
| EXH-R                   | Engine Exhaust Flow Rate              | GAL/HR    |
| FUEL L                  | Fuel Tank Level                       | %         |
| FUEL R                  | Fuel Flow Rate                        | GPH       |
| FUEL T                  | Fuel Temp                             | °F        |
| O2S1/1                  | O2 Sensor Concentration Bank1 Sensor1 | %         |
| O2S1/2                  | O2 Sensor Concentration Bank1 Sensor2 | %         |
| TM ADV                  | Injection Timing Advance              | ◆BTDC     |

| PRESSURE |                                    |      |
|----------|------------------------------------|------|
| Label    | Description                        | Unit |
| AAP      | Ambient Air Pressure               | PSIA |
| AAP      | Ambient Air Pressure (inHg)        | INHG |
| BOOST    | Boost Pressure                     | PSIG |
| BST-VA   | Boost (psi)/Vacuum (inHg) Pressure | PSIG |
| CLUTCH   | Clutch Pressure                    | PSIG |
| DPFDP1   | DPF Delta Press                    | PSI  |
| DPFOP1   | DPF Outlet Press Bank 1            | PSIG |
| FRP      | Fuel Rail Pressure                 | PSIA |
| FRP CMD  | FRP Commanded                      | PSIA |
| LIFT P   | Lift Pump Fuel Pressure            | PSIG |
| MAP      | Manifold Absolute Pressure         | PSIA |
| MAP      | Manifold Absolute Pressure         | PSIA |
| MAP      | Manifold Air Pressure (inHg)       | INHG |
| MAP A    | Manifold Pressure A                | PSIA |
| MAP CMD  | MAP Commanded                      | PSIA |
| SYS-PR   | Pressure Ratio System              |      |
| TRAN-1   | Trans Line 1 Pressure Command      | PSIA |

| SPEED AND VELOCITY |                          |       |
|--------------------|--------------------------|-------|
| Label              | Description              | Unit  |
| CRUISE             | Cruise Control Status    |       |
| ISS                | Trans Input Shaft Speed  | RPM   |
| OSS                | Trans Output Shaft Speed | RPM   |
| RPM                | Engine RPM               |       |
| RPM-RR             | Engine Response Rate     | RPM/S |
| SPEED              | Vehicle Speed            | MPH   |

| TEMPERATURE |                               |      |
|-------------|-------------------------------|------|
| Label       | Description                   | Unit |
| AAT         | Ambient Air Temp              | °F   |
| AAT         | Ambient Air Temp Absolute     | R    |
| CAC1/1      | CAC Temp Bank 1 Sensor 1      | °F   |
| CAC1/2      | CAC Temp Bank 1 Sensor 2      | °F   |
| CAT1/1      | Catalyst Temp Bank 1 Sensor 1 | °F   |
| CAT1/2      | Catalyst Temp Bank 1 Sensor 2 | °F   |
| CYL HD      | Cylinder Head Temp            | °F   |
| ECT         | Engine Coolant Temp           | °F   |
| EGR1/1      | EGR Temp Bank1 Sensor 1       | °F   |
| EGR1/2      | EGR Temp Bank1 Sensor 2       | °F   |
| EGT1        | Exhaust Gas Temp 1            | °F   |
| EGT1/1      | Exh Temp Bank 1 Sensor 1      | °F   |
| EGT1/2      | Exh Temp Bank 1 Sensor 2      | °F   |
| EGT1/3      | Exh Temp Bank 1 Sensor 3      | °F   |
| EGT1/4      | Exh Temp Bank 1 Sensor 4      | °F   |
| EGT1/5      | Exh Temp Bank 1 Sensor 5      | °F   |
| EGT2        | Exhaust Gas Temp 2            | °F   |
| EGT3        | Exhaust Gas Temp 3            | °F   |
| EOT         | Engine Oil Temp               | °F   |

| TRANSMISSION |                         |      |
|--------------|-------------------------|------|
| Label        | Description             | Unit |
| GEAR         | Trans Gear              |      |
| GEAR-C       | Trans Gear Commanded    |      |
| TC SLP       | Torque Converter Slip   | RPM  |
| TCSTAT       | Torque Converter Status |      |

|        |                          |    |
|--------|--------------------------|----|
| FUEL T | Fuel Rail Temp A         | °F |
| IAT    | Intake Air Temp          | °F |
| IAT1/1 | IAT Bank 1 Sensor 1      | °F |
| IAT1/2 | IAT Bank 1 Sensor 2      | °F |
| IAT1/3 | IAT Bank 1 Sensor 3      | °F |
| MAT    | Manifold Air Temp        | °F |
| SYS-DT | Delta Temperature System | °F |
| TRNS T | Transmission Fluid Temp  | °F |

| VEHICLE PERFORMANCE |                          |       |
|---------------------|--------------------------|-------|
| Label               | Description              | Unit  |
| AMB-HP%             | Ambient % of Horsepower  | %HP   |
| APP D               | Accelerator Pedal D      | %     |
| APP E               | Accelerator Pedal E      | %     |
| BP ACT              | Brake Pedal Active       |       |
| DISP                | Engine Displacement      | L     |
| HP-ECU              | Horsepower ECU           | HP    |
| LOAD                | Absolute Engine Load     | %     |
| LOAD                | Calculated Engine Load   | %     |
| TORQUE              | Torque % Actual          | %     |
| TQ-ECU              | Torque ECU               | FT-LB |
| TRQ FR              | Engine Friction % Torque | %     |
| TRQCMD              | Torque % Commanded       | %     |
| TRQREF              | Engine Reference Torque  | FT-LB |

| VOLTAGE |                       |      |
|---------|-----------------------|------|
| Label   | Description           | Unit |
| BATT    | ECU Battery Voltage   | V    |
| BATT*   | B-Bus Battery Voltage | V    |