

Freeze Frame Data

Description

Freeze frame data allows access to emission related values from specific generic parameter identification (PIDs). These values are stored the instant an emission related DTC is stored in continuous memory. This provides a snapshot of the conditions that were present when the DTC was stored. Once one set of freeze frame data is stored, this data remains in memory even if another emission related DTC is stored. When a DTC associated with the freeze frame is erased, the freeze frame data is also erased, and new freeze frame data can be stored. In the event of multiple emission related DTCs in memory, always note the DTC for the freeze frame data.

FREEZE FRAME DATA TABLE

Acronym	Description	Measurement Units
AAT	Ambient Air Temperature	Temperature °C/°F
APP_D	Accelerator Pedal Position D	Percent
APP_E	Accelerator Pedal Position E	Percent
BARO	Barometric Pressure	Pressure/kPa/psi
CAC_T	Charge Air Cooler Temperature Bank 1, Sensor 1	Temperature °C/°F
DPF_REGN_AVGD	Average Distance Between DPF Regenerations	km/miles
DPF_REGN_STAT	Diesel Particulate Filter Regeneration Status	Active/Inactive
DPF_SOOT_INF	Diesel Particulate Filter Soot Concentration Inferred	Grams/Liter
EBP	Exhaust Pressure Sensor 1	Pressure/kPa/psi
ECT1	Engine Coolant Temperature Sensor 1	Temperature °C/°F
ECT2	Engine Coolant Temperature Sensor 2	Temperature °C/°F
EGR_A_ACT	Actual Exhaust Gas Recirculation A Duty Cycle Or Position	Percent
EGR_A_CMD	Commanded Exhaust Gas Recirculation A Duty Cycle Or Position	Percent
EGRTP_V	Exhaust Gas Recirculation Throttle Position	Voltage
EGRTC	Exhaust Gas Recirculation Temperature Bank 1, Sensor 2	Temperature °C/°F
EGRTP_CMD	Exhaust Gas Recirculation Throttle Position Commanded	Percent
EGT11	Exhaust Gas Temperature 11	Temperature °C/°F
EGT12	Exhaust Gas Temperature 12	Temperature °C/°F
EGT13	Exhaust Gas Temperature 13	Temperature °C/°F
EGT14	Exhaust Gas Temperature 14	Temperature °C/°F
ENGIDL_TIME_TOT	Total Idle Run Time	Time
ENG_TIME_TOT	Total Engine Run Time	Time
EOT	Engine Oil Temperature	Temperature °C/°F
FLI	Fuel Level Input	Percent
FRP_A	Fuel Rail Pressure A	Pressure/kPa/MPa/psi
FRT	Fuel Rail Temperature	Temperature °C/°F
FUELRATE	Engine Fuel Rate	ml/min/lmin
FUEL_TIMING	Main Injection Timing Relative To TDC	Angle

Acronym	Description	Measurement Units
GP_LMP	Glow Plug Lamp	ON/OFF
IAT11	Intake Air Temperature Bank 1, Sensor 1	Temperature °C/°F
LOAD	Engine Load	Percent
MAF_A	Mass Air Flow Sensor A	g/s
MAP_A	Intake Manifold Absolute Pressure A	Pressure/kPa/psi
NOxLMP_TIME	Total Engine Run Time With Nitrogen Oxide Warning Active	Time
PTO_STATUS	Power Takeoff Active Status	ON/OFF
PTOTIME_TOT	Total Run Time With Power Take Off Active	Time
REDUCT_AVG_DMD	Average Reductant Consumption Demanded	ml/min
REDUCT_RATE	Average Reductant Consumption	ml/min
REDUCT_TNK_LV	Reductant Tank Level	Percent
RPM	Engine Revolutions Per Minute	RPM
RUNTM	Engine Run Time	Time
TQ_ENGREF	Engine Reference Torque	Nm
VPWR	Module Supply Voltage	Voltage
VSS	Vehicle Speed	km/h/mph

Accessing Freeze Frame PID Data

Refer to the scan tool manufacturers manual for instructions.

Resetting Vehicle Specific DTCs

Refer to the scan tool manufacturers manual for instructions.

On Board Diagnostic (OBD) PID Data Monitor

The parameter identification (PID) monitor for OBD offers real time evaluation of several emissions related parameters. Refer to the Parameter Identification (PID) list in this section.