

iDash Parameter List - 2019 RAM 3500 HD 6.7L

Air Density		
Label	Description	Unit
BAD	Density - Boost Air	LB/1KFT3
CAD	Density - Cylinder	LB/1KFT3
MAD	Density - Manifold Air	LB/1KFT3
AAD	Density % - Ambient Air (J607)	%
CAD	Density % - Cylinder (J607)	%
MAD	Density % - Manifold Air (J607)	%
DN-ALT	Density Altitude	FT
D-RAT	Density Ratio - System	
J607	Gas Correction Factor SAE J607	
MAD-RR	MAD % Response Rate	%/S
PR-ALT	Pressure Altitude	FT
SAT-P	Saturation Pressure	INHG
VAP-P	Vapor Pressure	INHG

Engine Performance - Air		
Label	Description	Unit
AI-RAT	Air Induction Ratio	
HPC-1K	Ambient Custom Fuel Power Potential per 1000 CFM	HP/1k
HPD-1K	Ambient Diesel Power Potential per 1000 CFM	HP/1k
HPE-1K	Ambient E85 Power Potential per 1000 CFM	HP/1k
HPG-1K	Ambient Gas Power Potential per 1000 CFM	HP/1k
HPM-1K	Ambient Methanol Power Potential per 1000 CFM	HP/1k
BSAC	Brake Specific Air Consumption	
CFMAMB	CFM Ambient	CFM
CFMENG	CFM Engine	CFM
CYL-RAT	Cylinder Fill Ratio	%
MAF	Mass Air Flow	GRAM/S
MAF-C	Mass Airflow Calculated	GRAM/S
THRT-C	Throttle Commanded	%
THRT-R	Throttle Position Relative	%
VT CMD	Turbo Vane Command	%
VT POS	Turbo Vane Position	%

Engine Performance - Fuel		
Label	Description	Unit
BSCR	Brake Specific Fuel Consumption	LB/HP*H
CYL-R	Cylinder Fuel Rate	MG/STROKE
EXH-R	Engine Exhaust Flow Rate	GAL/HR
FR-EST	Fuel Flow Rate Estimated	GPH
FUEL L	Fuel Tank Level	%
TM ADV	Injection Timing Advance	°BTDC

Emissions		
Label	Description	Unit
PM 1	% Particulate Matter Bank 1	%
DPFDIS	Avg Distance Between DPF Regen	MILES
DPFTIM	Avg Time Between DPF Regen	MIN
DEFCON	DEF Concentration	%
DEFVLV	DEF Fluid Level	%
DEFLOW	DEF Fluid Level Low	
DEF_T	DEF Tank Temperature	°F
REGEN	Dpf Regen Status	
DPF RG	DPF Regen Trigger	%
EGRACT	EGR Duty Cycle Actual	%
EGRCMD	EGR Duty Cycle Commanded	%
EGRERR	EGR Error	%
BPS M	Monitor - Boost Pressure System	
COMP M	Monitor - Comprehensive Component	
EGR M	Monitor - EGR and/or VVT System	
EGAS M	Monitor - Exhaust Gas Sensor	
FUEL M	Monitor - Fuel System	
MIS M	Monitor - Misfire	
HCCAT	Monitor - NMHC Catalyst	
NCAT M	Monitor - NOx/SCR Aftertreatment	
PMF M	Monitor - PM Filter	
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
SCRSTA	SCR Inducement State	

Vehicle Performance		
Label	Description	Unit
APP D	Accelerator Pedal D	%
APP E	Accelerator Pedal E	%
APPREL	Accelerator Pedal Relative	%
HP-AMB	Ambient % of HP	%
HP-AMB	Ambient HP Contribution	HP
LOAD	Calculated Engine Load	%
DISP	Engine Displacement	L
TRQ FR	Engine Friction % Torque	%
TRQREF	Engine Reference Torque	FT-LB
HP-ECU	Horsepower ECU	HP
HP-EST	Horsepower Estimated	HP
HP-POT	Horsepower Potential	HP
TORQUE	Torque % Actual	%
TRQCMD	Torque % Commanded	%
TQ-ECU	Torque ECU	FT-LB
TQ-EST	Torque Estimated	FT-LB

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

Diagnostics		
Label	Description	Unit
MILDIS	Dist Traveled While MIL Active	MILES
DTCTRV	Distance Since DTCS Cleared	MILES
RUN TM	Engine Run Time	SEC
FLAG	Flag	
ENGIDL	Idle Run Time	HR
MIL	MIL Status	
DTCCLR	Run Time Since DTCS Cleared	MIN
MILACT	Run Time While MIL Active	MIN
TIME	Time Data Log	S
ENGRUN	Total Engine Run Time	HR
WARMUP	Warmups Since DTCS Cleared	COUNT

Pressure		
Label	Description	Unit
AAP	Ambient Air Pressure	PSIA
AAP	Ambient Air Pressure (inHg)	INHG
BST-VA	Boost (psi)/Vacuum (inHg) Pressure	PSIG
BOOST	Boost Pressure	PSIG
DPFDP1	DPF Delta Press	PSI
DPFOP1	DPF Outlet Press Bank 1	PSIG
EXH P1	Exhaust Back Pressure	PSIA
FRPCMD	FRP Commanded	PSIA
FRP	Fuel Rail Pressure	PSIA
MAP	Manifold Absolute Pressure	PSIA
MAP	Manifold Air Pressure (inHg)	INHG
MAP A	Manifold Pressure A	PSIA
P-RAT	Pressure Ratio - System	

Temperature		
Label	Description	Unit
AAT	Ambient Air Temp	°F
AAT	Ambient Air Temp Absolute (in Rankin)	R
CAC1/1	CAC Temp Bank 1 Sensor 1	°F
TURCIT	Comp Inlet Temp	°F
SYS-DT	Delta Temperature System	°F
EGR1/1	EGR Temp Bank1 Sensor 1	°F
ECT	Engine Coolant Temp	°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
IAT	Intake Air Temp	°F
MAT	Manifold Air Temp	°F

Speed and Velocity		
Label	Description	Unit
RPM-RR	Engine Response Rate	RPM/S
RPM	Engine RPM	
TURBO	Turbo RPM	KRPM
TBO-RR	Turbocharger Speed Response Rate	KRPM/S
SPEED	Vehicle Speed	MPH