

Diagnostic List Cummins_v8.80

Remark:

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3.compared with the last version, the new added function is marked in red color.

System	Function	list
Cummins diesel engines	Version information	✓
	Read DTC	✓
	Freeze Frame Data	✓
	Clear DTC	✓
Cummins diesel engines	Read data stream	1.All parameters 2.Aftertreatment 3.Aftertreatment - SCR 4.Aftertreatment - Diesel Particulate Filter 5.Aftertreatment - Diesel Particulate Filter Stationary Regeneration 6.Engine Braking 7.Engine Protection 8.ECM Information 9.Dataplate 10.Low Power/Fuel Economy 11.Sensors 12.White Smoke/Engine Stumble 13.Hard Start 14.Switches 15.Lamps 16.EGR and Turbocharger Performance 17.Stop Start 18.Transmission 19.Relays 20.Driver Operation Interlock 21.Trip Fuel Report 22.OEM Security 23.OEM Domain 2 Parameters 24.Non Template parameters 25.Adjustable but non restorable parameters 26.Road Speed Governor Restriction 27.Green House Gas Idle ShutDown Parameters 28.Green House Gas Vehicle Speed Limiter Parameters 29.Other

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System	Function	list
Cummins diesel engines	Actuation test	1.Aftertreatment Current Based Particulate Matter Sensor Regeneration Test 2.Aftertreatment Diesel Exhaust Fluid Pump Heater Test 3.Aftertreatment Diesel Exhaust Fluid System Leak Test 4.Aftertreatment Diesel Particulate Filter Regeneration 5.Aftertreatment High NOx Reset 6.Aftertreatment SCR Catalyst Desulphurization 7.Aftertreatment SCR Catalyst Health Management 8.Aftertreatment SCR Performance Test 9.Aftertreatment Shutoff Valve and Injector Override Test 10.Aftertreatment Temperature Sensor Test 11.Agility Fuel Level Override Test 12.Agility Solenoid Actuator Test 13.Centinel Operational Test 14.Cylinder Cutout Test 15.Diesel Exhaust Fluid Doser Pump Air Solenoid Click Test 16.Diesel Exhaust Fluid Doser Pump Override Test 17.Diesel Exhaust Fluid Doser System Heater Test 18.Dual Fan Clutch Test 19.EFC Actuator Override Test 20.EGR Valve Test 21.Electric Fuel Lift Pump Override Test 22.Engine Protection Witness Test 23.Engine Priming Pump Test 24.Engine State Monitor 25.Fan Override Test 26.Fast Idle Warmup Test 27.Fuel Injector Performance Test 28.Fuel System Leakage Test 29.Gas Throttle Control Test 30.Heated Oxygen Sensor Test 31.Injector Check Valve Diagnostics Test 32.Intake Air Heater Override 33.Power Generation Tuning Test 34.SAE J1939 Datalink Control Test 35.Setup for Dynamometer 36.Starter Lockout Relay Driver Override Test 37.VGT Electronic Actuator Installation and Calibration 38.VGT Hysteresis Test

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System	Function	list
Cummins diesel engines	Trip Information	1.All Trips(Cumulative) 2.Trip Since Last Reset 3.Trip Since Last Reset Drive(Vehicle Speed > 0) 4.Trip Information Reset
Cummins diesel engines	Features and Parameters	1.System ID and Dataplate 2.Accelerator Interlock 3.Accelerator Options 4.Adjustable Low Idle Speed 5.AEM Trend Log 6.Aftertreatment 7.Aftertreatment Diesel Particulate Filter Regeneration Inhibit Lamp 8.Air Conditioner Control 9.Air Conditioner Switch 10.Air Shut Off Valve 11.Alternate Torque 12.Alternator Failure Warning 13.Anti-Lock Brake (ABS) Controller 14Automatic Boost Power 15.Auxiliary Governor Control 16.Battery Power Required Lamp 17.Boost Power 18.Broadcasted Percent Power 19.Centinel Oil System 20.Charge Air Cooler Outlet Temperature Sensor

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Cummins diesel engines	Features and Parameters	21.Clutch Pedal Position Switch 22.Clutch Protection 23.Cold Idle Warmup 24.Constrained Operation 25.Compressor Intake Density Torque Derate 26.Crankcase Ventilation Heater 27.Cruise Control 28.Cruise Control and Engine Brake Interaction 29.Customer Constrained Operation 30.Cyclical Load Acceptance Gain Adjust 31.Dedicated Fault Lamps 32.Dedicated Pulse Width Modulation Output 33.Driver Reward 34.Dual Fan Clutch Control 35.Dual Outputs Based On Sensed Parameters 36.Electric Fuel Lift Pump 37.Electrical System Voltage 38.Engine Brake Control 39.Engine Coolant Level Sensor 40.Engine Coolant Level Sensor 2 41.Engine Oil Level 42.Engine Oil Pressure Sensor 43.Engine Overload Protection 44.Engine Protection 45.Engine Rebuild Run Time 46.Engine Speed Cruise Control 47.Engine Start Stop Permit 48.Engine Warmup Protection 49.Enhanced Auxiliary Shutdown Switch 50.Ether Injection Enable 51.Fan Control 52.Fan Control Trim Extension 53.Fault Acknowledge Switch Enable 54.Fast Idle Warmup 55.Final Inducement Restart 56.Frequency Accelerator Pedal or Lever 57.Fuel Filter Restriction Indicator Switch 58.Fuel Grade Enable 59.Fuel Level Sensor 2 60.Fuel Usage Adjustment

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System	Function	list
Cummins diesel engines	Features and Parameters	61.Gear Down Protection 62.Governor Type 63.High NOx Reset 64.High Pressure Common Rail Injector Setup Enable 65.High Soot Load Shutdown 66.High Sulphur Protection Inhibit 67.Idle Rampdown 68.Idle Shutdown 69.Immobilizer 70.Inducement Override Switch 71.Intake Air Heater 72.Intermediate Speed Control 73.J1939 Controls 74.Load Based Acceleration Control 75.Load Based Speed Control 76.Load Based Speed Control - Enhanced 77.Maintenance Monitor 78.Multi Function Switch Enable 79.Multiple Unit Synchronization 80.OEM Ambient Air Temperature Sensor 81.OEM Auxiliary Pressure Sensor Fault Threshold 82.OEM Auxiliary Switch Input 83.OEM Auxiliary Temperature 2 84.OEM Simple Lockout 85.OEM Switch 1 86.OEM Switch 2 87.OEM Switch 3 88.OEM Switch 4 89.OEM Switch 5 90.Oil Level Electronic Dipstick 91.Oil Level Sensor Enhanced 92.Parking Brake Switch 93.Powertrain Protection 94.Primary Accelerator Pedal Or Lever 95.PTO 96.Rated Overspeed Protection 97.Rated Speed Adjust 98.Remote Accelerator Pedal or Lever 99.Remote Start 100.Road Speed Governor

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System	Function	list
Cummins diesel engines	Features and Parameters	101.RS422 Communication 102.SAE J1939 Multiplexing 103.Service Brake Switch 104.Service Brake Validation Switch 105.Single Bank Cutout 106.Smart Torque 2 107.Starter Lockout 108.Starter Control 109.Sudden Deceleration Event Settings 110.Switched Alternate Low Idle Speed 111.Switched Droop 112.Switched Maximum Engine Operating Speed 113.Tire Wear Adjustment 114.Transmission Accelerator Interlock 115.Transmission Setup 116.Trip Information 117.User Adjustable Fuel Economy 118.Variable Rate Vehicle Acceleration Management 119.Vehicle Acceleration Management 120.Vehicle Speed Based Device Driver A 121.Vehicle Speed Based Driver B 122.Vehicle Speed Sensor Anti-Tampering 123.Vehicle Speed Source 124.Water In Fuel Sensor 125.Aftertreatment Ash Adjustment Factor

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System	Function	list
Cummins diesel engines	Advanced ECM Data	1.Aftertreatment Maintenance 2.Aftertreatment Maintenance Filter Installation 3.Aftertreatment Particulate Matter Sensor Regeneration 4.Aftertreatment SCR Catalyst Cold Soak Override 5.Aftertreatment Filter DeGreening 6.Aftertreatment Max Soot Level Per Regen History Reset 7.Diesel Exhaust Fluid Doser Purge Counter 8.Duty Cycle Monitor 9.Fuel Consumption Monitor 10.Fuel System Table Reset 11.Fuel Injector Reset 12.Fuel Injector Power Control Reset 13.High Pressure Common Rail Injector Setup 14.Hybrid Engine Start Stop Override 15.Idle Shutdown Override 16.Immobilizer Installation 17.Maintenance Monitor 18.Turbocharger Actuator Compatibility 19.Vehicle Classification 20.Real Time Clock
Cummins diesel engines	ECM Password	✓
Cummins diesel engines	ECM Password Removal	✓
Cummins diesel engines	History or Log	✓
Cummins diesel engines	Audit Trail	✓
Cummins diesel engines	Demo Mode	✓
Cummins diesel engines	Display wiring diagram	✓
Cummins diesel engines	More parameters and configuration	✓
Cummins diesel engines	Expert Function	✓