



FCAR Diagnostic List Cummins_v8.30

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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	✓



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System	Function	list
Cummins diesel engines	Read data stream	<ul style="list-style-type: none">1.All Parameters2.Aftertreatment3.Aftertreatment - SCR4.Aftertreatment - Diesel Particulate Filter5.Aftertreatment - Diesel Particulate FilterStationary Regeneration6.Engine Braking7.Engine Protection8.ECM Information9.Dataplate10.Low Power/Fuel Economy11.Sensors12.White Smoke/Engine Stumble13.Hard Start14.Switches15.Lamps16.EGR and Turbocharger Performance17.Stop Start18.Transmission19.Relays20.Driver Operation Interlock21.Normal adjustable parameters22.Normal adjustable features23.Trip Fuel Report24.OEM Security25.OEM Domain 2 Parameters26.Non Template parameters27.Adjustable but non restorable parameters28.Road Speed Governor Restriction29.Green House Gas Idle ShutDown Parameters30.Green House Gas Vehicle Speed LimiterParameters31.Other



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System	Function	list
Cummins diesel engines	Actuation test	01.Actuator Control Test 02.Actuator Diagnostic Tests 03.Aftertreatment Current Based Particulate Matter Sensor Regeneration Test 04.Aftertreatment Diagnostic Tests 05.Aftertreatment Diesel Exhaust Fluid Pump Heater Test 06.Aftertreatment Diesel Exhaust Fluid System Leak Test 07.Aftertreatment Diesel Exhaust Fluid System Leak Test Ver2 08.Aftertreatment Diesel Exhaust System Leak Test 09.Aftertreatment Diesel Particulate Filter Deep Clean Regeneration Test 10.Aftertreatment Diesel Particulate Filter Regeneration 11.Aftertreatment Diesel Particulate Filter Restriction Test 12.Aftertreatment High NOx Reset 13.Aftertreatment Inducement Witness Test 14.Aftertreatment SCR Catalyst Desulphurization Test 15.Aftertreatment SCR Performance Test 16.Aftertreatment SCR System Cleaning Test 17.Aftertreatment SCR System Test 18.Aftertreatment Shutoff Valve and Injector Override Test 19.Air to Fuel Ratio Test 20.Centinel Operational Test



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System	Function	list
Cummins diesel engines	Actuation test	21.Cylinder Bank Cutout Test 22.Cylinder Cutout Test 23.Cylinder Performance Test 24.Detonation Sensor Offset Calibration 25.Diesel Exhaust Fluid Doser Pump Air Solenoid Click Test 26.Diesel Exhaust Fluid Doser Pump Override Test 27.Diesel Exhaust Fluid Doser System Heater Test 28.Dual Fan Clutch Control 29.EFC Actuator Override Test 30.EGR Valve / Turbocharger Operational Test 31.EGR Valve Test 32.Electric Fuel Lift Pump Override Test 33.Engine Fuel Supply Pump Override Test 34.Engine Protection Witness Test 35.Engine State Monitor 36.Engine Tuning Tests and Modifications 37.Fan Override Test 38.Fast Idle Warmup Test 39.Fuel Control Valve Initial Position Setup Test 40.Fuel Injector Performance Test 41.Fuel Lift Pump Override 42.Fuel Pump Test 43.Fuel System Leakage Test 44.Fuel System Table Reset 45.Gas Throttle Control Test 46.Heated Oxygen Sensor Test 47.High Pressure Fuel System Actuator Override Test 48.Injector Check Valve Diagnostics Test 49.Intake Air Heater Override 50.Intake Air Heater Override Test



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System	Function	list
Cummins diesel engines	Actuation test	51.Kilowatt Load Control Test 52.Lambda Offset Table 53.Manual Fuel Control Valve Adjustment Test 54.OBD Monitors 55.Open Loop Mode Lock-In Test 56.Open/closed-loop Fueling Control Tuning 57.Power Generation Tuning Test 58.SAE J1939 Datalink Control Test 59.SAE J1939 Powertrain Control Test 60.Setup for Dynamometer 61.Single Bank Cutout Test 62.Speed Bias Setup 2 63.Starter Intake Air Heater Override Test 64.Starter Lockout Relay Driver Override Test 65.Switch and Sensor Intermittent Connection Test 66.Torque Over Boost Offset Table 67.Turbocharger Actuator Test 68.Turbocharger Operational Test 69.VGT Electronic Actuator Installation and Calibration 70.VGT Hysteresis Test
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



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System	Function	list
Cummins diesel engines	Features and Parameters	<ul style="list-style-type: none">1.System ID and Dataplate2.Accelerator Interlock3.Accelerator Options4.Accelerator Options5.Adjustable Low Idle Speed6.AEM Trend Log7.Aftertreatment8.Aftertreatment Diesel Particulate Filter Regeneration Inhibit Lamp9.Air Conditioner Control10.Air Conditioner Switch11.Air Shut Off Valve12.Alternate Torque13.Alternator Failure Warning14.Anti-Lock Brake (ABS) Controller15Automatic Boost Power16.Auxiliary Governor Control17.Battery Power Required Lamp18.Boost Power19.Broadcasted Percent Power20.Centinel Oil System21.Charge Air Cooler Outlet Temperature Sensor22.Clutch Pedal Position Switch23.Clutch Protection24.Cold Idle Warmup25.Constrained Operation26.Compressor Intake Density Torque Derate27.Crankcase Ventilation Heater28.Cruise Control29.Cruise Control30.Cruise Control and Engine Brake Interaction



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System	Function	list
Cummins diesel engines	Features and Parameters	<ul style="list-style-type: none">31.Customer Constrained Operation32.Cyclical Load Acceptance Gain Adjust33.Dedicated Fault Lamps34.Dedicated Pulse Width Modulation Output35.Driver Reward36.Driver Reward37.Dual Fan Clutch Control38.Dual Outputs Based On Sensed Parameters39.Electric Fuel Lift Pump40.Electrical System Voltage41.Engine Brake Control42.Engine Coolant Level Sensor43.Engine Coolant Level Sensor 244.Engine Oil Level45.Engine Oil Pressure Sensor46.Engine Overload Protection47.Engine Protection48.Engine Rebuild Run Time49.Engine Speed Cruise Control50.Engine Start Stop Permit51.Engine Warmup Protection52.Enhanced Auxiliary Shutdown Switch53.Ether Injection Enable54.Fan Control55.Fan Control56.Fault Acknowledge Switch Enable57.Fast Idle Warmup58.Final Inducement Restart59.Frequency Accelerator Pedal or Lever60.Fuel Filter Restriction Indicator Switch



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System	Function	list
Cummins diesel engines	Features and Parameters	61.Fuel Grade Enable 62.Fuel Level Sensor 2 63.Fuel Usage Adjustment 64.Gear Down Protection 65.Governor Type 66.High NOx Reset 67.High Pressure Common Rail Injector Setup Enable 68.High Soot Load Shutdown 69.High Sulphur Protection Inhibit 70.Idle Rampdown 71.Idle Shutdown 72.Idle Shutdown 73.Idle Shutdown 74.Immobilizer 75.Inducement Override Switch 76.Intake Air Heater 77.Intermediate Speed Control 78.Intermediate Speed Control 79.J1939 Controls 80.Load Based Acceleration Control 81.Load Based Speed Control 82.Load Based Speed Control 83.Load Based Speed Control - Enhanced 84.Maintenance Monitor 85.Multi Function Switch Enable 86.Multiple Unit Synchronization 87.OEM Ambient Air Temperature Sensor 88.OEM Auxiliary Pressure Sensor Fault Threshold 89.OEM Auxiliary Switch Input 90.OEM Auxiliary Temperature 2



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System	Function	list
Cummins diesel engines	Features and Parameters	91.OEM Simple Lockout 92.OEM Switch 1 93.OEM Switch 2 94.OEM Switch 3 95.OEM Switch 4 96.OEM Switch 5 97.Oil Level Electronic Dipstick 98.Oil Level Sensor Enhanced 99.Parking Brake Switch 100.Powertrain Protection 101.Powertrain Protection 102.Powertrain Protection 103.Primary Accelerator Pedal Or Lever 104.PTO 105.Rated Overspeed Protection 106.Rated Speed Adjust 107.Remote Accelerator Pedal or Lever 108.Remote Start 109.Road Speed Governor 110.RS422 Communication 111.SAE J1939 Multiplexing 112.Service Brake Switch 113.Service Brake Validation Switch 114.Single Bank Cutout 115.Smart Torque 2 116.Starter Lockout 117.Starter Control 118.Sudden Deceleration Event Settings 119.Switched Alternate Low Idle Speed 120.Switched Droop



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System	Function	list
Cummins diesel engines	Features and Parameters	121.Switched Droop 122.Switched Maximum Engine Operating Speed 123.Tire Wear Adjustment 124.Transmission Accelerator Interlock 125.Transmission Setup 126.Transmission Setup 127.Trip Information 128.Trip Information 129.User Adjustable Fuel Economy 130.Variable Rate Vehicle Acceleration Management 131.Vehicle Acceleration Management 132.Vehicle Speed Based Device Driver A 133.Vehicle Speed Based Driver B 134.Vehicle Speed Sensor Anti-Tampering 135.Vehicle Speed Sensor Anti-Tampering 136.Vehicle Speed Sensor Anti-Tampering 137.Vehicle Speed Source 138.Vehicle Speed Source 139.Water In Fuel Sensor



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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.Diesel Exhaust Fluid Doser Purge Counter 6.Duty Cycle Monitor 7.Fuel Consumption Monitor 8.Fuel Injector Reset 9.Fuel System Table Reset 10.High Pressure Common Rail Injector Setup 11.Hybrid Engine Start Stop Override 12.Idle Shutdown Override 13.Immobilizer Installation 14.Maintenance Monitor 15.Turbocharger Actuator Compatibility 16.Vehicle Classification
Cummins diesel engines	Demo Mode	✓

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