



BLACKCAT V12.0 Function List

Note:

✓ Functions marked with ✓ is fully supported.

System	ECU Info	Read Fault Code	Clear Fault Code	Live Data	Active Test	Special Func	Features and Parameters
Cummins Engine/Cummins engine system (J1939 protocol)	✓	✓	✓	✓	✓	✓	✓
Cummins Engine/Cummins engine system (J1708 protocol)	✓	✓	✓	✓			

Active Test

0001	Post-processing is based on the regeneration test of the current particle sensor
0002	After-treatment diesel engine exhaust gas treatment liquid pump heater test
0003	Leakage test of exhaust gas treatment fluid system for post-treatment diesel engine
0004	After-treatment diesel particulate filter regeneration
0005	Post-processing high NOx reset
0006	After-treatment selective catalytic reduction (SCR) catalytic converter desulfurization
0007	Post-processing SCR catalyst health management
0008	After-treatment selective catalytic reduction (SCR) performance test
0009	After-treatment shut-off valve and injector override test
0010	Post-processing temperature sensor test
0011	Fuel level over-control test
0012	Shut-off valve solenoid valve actuator test
0013	Centinel operation test
0014	Cylinder oil cut test
0015	Diesel engine exhaust treatment fluid injection unit air solenoid valve click test
0016	Exceeding Test of Diesel Engine Exhaust Treatment Liquid Injection Unit
0017	Diesel engine exhaust gas treatment fluid injection system heater test
0018	Dual fan clutch test
0019	Electronic fuel control (EFC) actuator override test
0020	Exhaust gas recirculation control system (EGR) valve test
0021	Electric fuel transfer pump over-control test
0022	Engine protection witness test
0023	Engine starter pump test
0024	Engine condition monitoring
0025	Fan override test
0026	Fast idle preheating test
0027	Fuel injector performance test
0028	Fuel system leak test
0029	Gas throttle control test
0030	Heating oxygen sensor test
0031	Injector check valve diagnostic test
0032	Intake heater override
0033	Power generation adjustment test
0034	SAE J1939 data communication interface control test
0035	Dynamometer settings
0036	Starter motor lock relay driver override test
0037	Variable geometry turbocharger (VGT) electronic actuator installation and calibration
0038	Variable geometry turbocharger (VGT) lag test

Special Func

0001	Post-processing maintenance
0002	After-treatment maintenance filter installation
0003	Post-processing particulate sensor regeneration
0004	After-treatment selective catalytic reduction (SCR) catalyst cold soak over-control
0005	After-treatment filter degreasing
0006	The maximum soot level in post-processing resets each time the regeneration history
0007	Diesel engine exhaust treatment fluid injector purification counter
0008	Work cycle monitoring
0009	Fuel consumption monitoring

0010	Fuel system gauge reset
0011	Injector reset
0012	Injector power control reset
0013	Common rail injector settings
0014	Hybrid engine start-stop override
0015	Idle Stop Override
0016	Engine anti-theft system installation
0017	Maintenance monitoring
0018	Turbocharger compatibility
0019	Vehicle classification
0020	Maintenance reset
0021	Real Time Clock

Features and Parameters

0001	System ID and nameplate
0002	J1939 control
0003	SAE J1939 multiplex communication
0004	PTO
0005	Speed source
0006	Primary accelerator pedal or joystick
0007	Idle stop
0008	Idle speed gradually decreases
0009	Road speed regulator
0010	Low temperature idling preheating
0011	Electrical system voltage
0012	Engine protection
0013	Engine oil level
0014	Engine oil pressure sensor
0015	Engine coolant level sensor
0016	Engine coolant level sensor 2
0017	Engine overload protection
0018	Engine brake control
0019	Engine reloading operation time
0020	Engine speed cruise control
0021	Engine start/stop permission
0022	Engine warm-up protection
0023	Fan control
0024	Fan control settings
0025	Common rail injector settings
0026	Post-processing
0027	After-treatment diesel particulate filter regeneration suppression lamp
0028	Throttle interlock
0029	Accelerator options
0030	Remote accelerator pedal or joystick
0031	Remote start
0032	Adjustable low idle speed
0033	AEM Trend Record
0034	Air conditioning control
0035	Air conditioning switch
0036	Air shut-off valve
0037	Spare torque
0038	Charger failure warning
0039	Anti-lock brake (ABS) controller
0040	Automatic power boost
0041	Auxiliary governor control
0042	Battery power supply indicator
0043	Power boost
0044	Transmission power percentage
0045	Centinel oil system
0046	Rechargeable air cooler outlet temperature sensor
0047	Clutch pedal position switch

0048	Clutch protection
0049	Restricted operation
0050	Compressor intake density torque derating
0051	Crankcase ventilation heater
0052	Cruise control
0053	Interaction between cruise control and engine braking
0054	Client restricted operation
0055	Cycling load accepts gain adjustment
0056	Dedicated fault light
0057	Dedicated pulse width modulation output
0058	Dual fan clutch control
0059	Dual output based on sensing parameters
0060	Electronic fuel transfer pump
0061	Enhanced auxiliary shutdown switch
0062	Ether injection activated
0063	Fault confirmation switch is enabled
0064	Fast idle preheating
0065	Finally the incentive starts again
0066	Frequency accelerator pedal or joystick
0067	Fuel water sensor
0068	Fuel filter resistance indicator switch
0069	Fuel level activated
0070	Fuel level sensor 2
0071	Fuel consumption adjustment
0072	Downshift protection
0073	Governor type
0074	High NOx reset
0075	High black smoke load shutdown
0076	High sulfur content protection prohibition
0077	Anti-theft device
0078	Excitation Override Switch
0079	Intake heater
0080	Intermediate speed control
0081	Load-based acceleration control
0082	Load-based speed control
0083	Load-based speed control-enhanced
0084	Maintenance monitoring
0085	Multi-function switch enabled
0086	Multi-machine synchronization
0087	OEM atmospheric temperature sensor
0088	OEM auxiliary pressure sensor failure threshold
0089	OEM auxiliary switch input
0090	OEM auxiliary temperature 2
0091	OEM simple lock
0092	OEM switch 1
0093	OEM switch 2
0094	OEM switch 3
0095	OEM switch 4
0096	OEM switch 5
0097	Electronic oil dipstick
0098	Enhanced oil level sensor
0099	Parking brake switch
0100	Driveline protection
0101	Rated overspeed protection
0102	Rated speed adjustment
0103	RS422 communication
0104	Service brake switch
0105	Service brake effective switch
0106	Single-row broken cylinder
0107	Smart torque 2
0108	Starter motor lock
0109	Starter motor control

0110	Emergency deceleration event setting
0111	Switch standby low idle speed
0112	Switch speed
0113	Maximum engine speed controlled by switch
0114	Tire wear adjustment
0115	Transmission throttle interlock
0116	Gearbox settings
0117	Itinerary information
0118	User-adjustable fuel economy
0119	Variable rate vehicle acceleration management
0120	Vehicle acceleration management
0121	Device driver based on vehicle speed A
0122	Device driver based on vehicle speed B
0123	Anti-interference characteristics of vehicle speed sensor
0124	Post-treatment ash adjustment factor
0125	Driver reward