

# China National Heavy Duty Truck Corporation (2023)

System	Model	Support functions	List of subfunctions
Engine	Bosch Euro 6 engine	Read ECU information	
		Fault code	Read fault code
			Erase fault code
		Read Data Stream	
		Actuation test	Start fault information testing
			Diesel particulate filter (DPF)
			Compression test
			High voltage testing
			Acceleration Test (Cylinder Cutout Test)
			EGR valve test
			Booster control test
			Inlet throttle valve (TVA) test
			PRV opening count reset
			SCR system testing
			DPM system testing
			DPM evacuation
			Intake system test
		Over limit record	
		Reading and writing the frame number	
		Parameter configuration	Reading and writing the frame number
Air intake preheating			
K value			
The maximum speed			
Idle speed and vehicle speed sensors			
Read the amount of gray carbon			
		Read ECU information	

System	Model	Support functions	List of subfunctions
Engine	Bosch common rail engine	Fault code	Read fault code
			Erase fault code
		Read Data Stream	
		Actuation test	Start fault information testing
			Compression test
			High voltage testing
			Acceleration Test (Cylinder Cutout Test)
			Speed comparison test
			After treatment active testing
		Reading and writing the frame number	
		Parameter configuration	Certification version number/calibration number
			PRV opening count reset
			Air intake preheating
			Electronic control fan
			K value
			The maximum speed
			Vehicle speed signal source
			Idle speed and vehicle speed sensors
			Fan air conditioning idle speed
Engine test run			
OBD detects power supply limit			
GPS function optimization			
Engine	Denso common rail engine		Read ECU information
		Fault code	Read fault code
			Erase fault code
		Read Data Stream	
		Actuation test	Cylinder cutout test
			Fuel leak check function
			Exhaust brake on/off function

System	Model	Support functions	List of subfunctions
		Parameter configuration	Reading and writing the frame number
			Certificate number
			K value
			Vehicle configuration
			PTO configuration
		Injector coding	
Engine	EControls Natural Gas Engine	Read ECU information	
		Fault code	Read fault code
			Erase fault code
		Read Data Stream	
		Actuation test	External power supply test
			Electronic throttle test
			Idle speed boost test
			Waste Gas Bleed Control (WGP) Valve Test
			UEGO drift reset
		Parameter configuration	Certification version number
			Engine model
			Frame number(VIN)
			K value
			Vehicle speed configuration
			PTO configuration
		Read ECU information	
		Read Data Stream	
		Instrument diagnostics	
			Reading and writing the frame number
			Instrument mileage
			K value
			Engine type

System	Model	Support functions	List of subfunctions
Instrument system	TFT instrument	Parameter configuration	Instrument type
			Drive form
			Cab type
			Vehicle speed limit
			Oil maintenance mileage
			Oil maintenance time
			Gearbox type
			Language
			Assembling ABS/EBS
			ECAS type
			Other assembly parameters
Instrument system	2012 version instrument	Read ECU information	
		Instrument diagnostics	
		Parameter configuration	Reading and writing the frame number
			Instrument mileage
			Instrument type
			Drive form
			MAN cab
			Exhaust brake signal
			High water temperature alarm
			Engine diagnostic light
			Vehicle speed limit
			Vehicle speed limit canceled
			M value
			Oil maintenance mileage
			Oil maintenance time
Whether to request fuel consumption (LFC) (required for BOSCH common rail)			

System	Model	Support functions	List of subfunctions
			Exhaust brake digital high and low
			Oil maintenance reminder switch/off
			Other assembly parameters
Instrument system	Commercial vehicle Unite instrument	Parameter configuration	K value
			M value
			Initial mileage
			Car model
			Speed warning threshold
			speed warning threshold
			General engine fault indication
			Other assembly parameters
Instrument system	Color screen instrument	Read ECU information	
		Parameter configuration	Reading and writing the frame number
			Instrument mileage
			K value
			Engine type
			Instrument type
			Drive form
			Cab type
			Vehicle speed limit
			Oil maintenance mileage
			Oil maintenance time
			Gearbox type
			Other assembly parameters
	Engine model		
	Instrument mileage		
	K value		

System	Model	Support functions	List of subfunctions
Instrument system:	ZB230 instrument cluster	Parameter configuration	Engine type
			Instrument type
			Drive type (model)
			Engine speed K value
			Vehicle speed limit
			Gearbox type
			Language
			Vehicle speed sensor pulse number
			Other assembly parameters
Gearbox, brake system	ABS-E8(ESC)	Read ECU information	
		Fault code	Read fault code
			Erase fault code
		Read Data Stream	
		Actuation test	Calibrating ESC steering angle sensor
ESC offline learning			
Gearbox, brake system	Voith retarder	Read ECU information	
		Fault code	Read fault code
			Erase fault code
Read Data Stream			
Gearbox, brake system	Fast retarder	Fault code	Read fault code
			Erase fault code
Gearbox, brake system	Worry free shifting	Read ECU information	
		Fault code	Read fault code
			Erase fault code
		Read Data Stream	
		Read ECU information	

System	Model	Support functions	List of subfunctions
Gearbox, brake system	AMT function operation	Fault code	Read fault code
			Erase fault code
		Measurement and calibration	Transmission current measured value
			Ramp sensor calibration
			Shift knob test
			Other measurements
		Actuation test	Ramp sensor calibration
			Shift knob test
			Shift test
			Transmission relearning
			Actuation function
Gearbox, brake system	Knorr-Bremse EBS	Read ECU information	
		Fault code	Read fault code
			Erase fault code
ECU restart			
Gearbox, brake system	EBS function operation	Read ECU information	
		Fault code	Read fault code
			Erase fault code
		Read Data Stream	
		Actuation test	ECU restart
			Voltage and switch detection
			Brake pedal signal
			Wheel speed sensor
			Pressure sensor testing
			Calibrating ESC steering angle sensor
ESC offline learning			