

# YUCHAI V16.32 Function List

Note:								
✓	Functions marked with ✓ is fully supported.							
System			ECU Info	Read Fault Code	Clear Fault Code	Live Data	Active Test	Special Func
Diesel Engine\Bosch System\Bosch Automatic Identification			✓	✓	✓	✓	Please refer to BOSCH Function List	
Diesel Engine\Bosch System\Yuchai Bosch EDC7UC31 system (China III/IV)\Bosch EDC7UC31 Yucai dedicated K line			✓	✓	✓	✓		S0002, S0003, S0001, S0004, S0005
Diesel Engine\Bosch System\Yuchai Bosch EDC7UC31 system (China III/IV)\Bosch EDC7UC31 Yuchai dedicated CAN line			✓	✓	✓	✓		S0002, S0003, S0001, S0004, S0005
Diesel Engine\Bosch System\Yuchai Bosch EDC7UC31 system (China III/IV)\Bosch EDC7UC31 Universal\Static diagnostic data			✓	✓	✓	✓		S0002, S0003, S0001, S0004, S0005
Diesel Engine\Bosch System\Yuchai Bosch EDC7UC31 system (China III/IV)\Bosch EDC7UC31 Universal\Dynamic diagnostic data			✓	✓	✓	✓	A0024, A0037, A0038, A0039, A0040	S0005, S0004, S0002, S0003, S0001, S0012
Diesel Engine\Bosch System\Yuchai Bosch EDC7UC31 system (China III/IV)\Yuchai Bosch EDC7UC31 V70-CVP (K)			✓	✓	✓	✓		S0001
Diesel Engine\Bosch System\Yuchai Bosch EDC7UC31 system (China III/IV)\Yuchai Bosch EDC7UC31 V70-CVP (CAN)			✓	✓	✓	✓		S0001
Diesel Engine\Bosch System\Yuchai Bosch EDC16UC40 system\Bosch EDC16UC40 Yuchai Special System (K Line)			✓	✓	✓	✓	Please refer to BOSCH Function List	
Diesel Engine\Bosch System\Yuchai Bosch EDC17C53 P924 (K)			✓	✓	✓	✓	Please refer to BOSCH Function List	
Diesel Engine\Bosch System\Yuchai Bosch EDC17CV44/54 (China IV/V)							SCAN	
Diesel Engine\Bosch System\Yuchai Bosch MD1CE108 (China VI) SCAN			✓	✓	✓	✓	A0034, A0075, A0076, A0077, A0078, A0079, A0080, A0081, A0082, A0083, A0084, A0085, A0086, A0087, A0088, A0089, A0090, A0091, A0092, A0093, A0094, A0095, A0096, A0097, A0098, A0099, A0100, A0101, A0102, A0103, A0104, A0105, A0106, A0107, A0108, A0109, A0081, A0088, A0095, A0102, A0109, A0137, A0138, A0139, A0138, A0110, A0111, A0112, A0113, A0114, A0115, A0116, A0117, A0118, A0119, A0120, A0121, A0122, A0123, A0124, A0125, A0126, A0127, A0128, A0129, A0130, A0131, A0132, A0133, A0134, A0135, A0136, A0114, A0191, A0128, A0132, A0110, A0111, A0112, A0113, A0079, A0114, A0115, A0081, A0116, A0117, A0118, A0085, A0086, A0087, A0088, A0089, A0090, A0119, A0092, A0093, A0120, A0121, A0122, A0123, A0124, A0125, A0126, A0127, A0128, A0129, A0104, A0130, A0131, A0132, A0133, A0134, A0135, A0136	S0009, S0017, S0001, S0015, S0016, S0018, S0019, S0020, S0020, S0021, S0022, S0023, S0024, S0025, S0026, S0027, S0028, S0026
Diesel Engine\Bosch System\Yuchai Bosch MD1CE108 (China VI) General Version			✓	✓	✓	✓		S0021, S0022, S0023, S0024, S0001, S0025, S0026, S0027, S0015, S0097, S0016, S0009, S0018, S0019, S0020, S0017
Diesel Engine\Bosch System\Yuchai Bosch MD1CC878 P2061(China VI)			✓	✓	✓	✓		S0096
Diesel Engine\Delphi System\Delphi Common Rail System (China III/IV)\Delphi Common Rail System 12V			✓	✓	✓	✓	A0001, A0002, A0003, A0004, A0005, A0006, A0007, A0008, A0009, A0010, A0011, A0012, A0013, A0014, A0015, A0016, A0017, A0018, A0019, A0020, A0021, A0022, A0023, A0024	S0006, S0007, S0008, S0009
Diesel Engine\Delphi System\Delphi Common Rail System (China III/IV)\Delphi Diesel China III			✓	✓	✓	✓	A0003, A0045, A0006, A0007, A0046, A0047, A0010, A0012, A0016, A0017, A0018, A0019	S0006, S0007, S0009, S0008
Diesel Engine\Delphi System\Delphi Common Rail System (China III/IV)\Delphi Common Rail (4D20)			✓	✓	✓	✓	A0048, A0002, A0049, A0050, A0051, A0006, A0007, A0052, A0053, A0054, A0055, A0056, A0012, A0057, A0058, A0059, A0060, A0061, A0062, A0063, A0064, A0065	
Diesel Engine\Delphi System\Delphi Common Rail System (K)			✓	✓	✓	✓		S0017
Diesel Engine\Delphi System\Delphi Common Rail System DCM6.24 (4Y20, YC4E China V)			✓	✓	✓	✓	A0034	S0009, S0017, S0029, S0030
Diesel Engine\Delphi System\Delphi Common Rail System DCM7.24 (4Y20, YC4E China VI)			✓	✓	✓	✓	A0157, A0158, A0159, A0160, A0161, A0162, A0163, A0164, A0165, A0166, A0167, A0168, A0169, A0170, A0171, A0172, A0173, A0174, A0175, A0176, A0177, A0178, A0179, A0180, A0181, A0182, A0183, A0184, A0185, A0186, A0187, A0188, A0189, A0190, A0191, A0192, A0193, A0194, A0195, A0117, A0196, A0197, A0198, A0199, A0200, A0201, A0202, A0203, A0204, A0205, A0206, A0084, A0207, A0208, A0209, A0210, A0211, A0212, A0213, A0214, A0215, A0216, A0217, A0218, A0219, A0220, A0221, A0164, A0171, A0178, A0185, A0192, A0198, A0205, A0211, A0218, A0185, A0222, A0223, A0224, A0225, A0226, A0227, A0228	S0009, S0017, S0031, S0032, S0033, S0018, S0020, S0019, S0019, S0034, S0035, S0036, S0037, S0038, S0039, S0040, S0039
Diesel Engine\Delphi System\Delphi Common Rail System DCM7.24 DCM7.24 (4Y24-60, 4Y24-62, 4Y30-60, S04-68 China VI)			✓	✓	✓	✓	A0146, A0233, A0148, A0149, A0150, A0151, A0234, A0235, A0165, A0166, A0236, A0237, A0238, A0239, A0177, A0172, A0173, A0174, A0175, A0176, A0177, A0178, A0179, A0180, A0240, A0182, A0183, A0184, A0185, A0186, A0187, A0241, A0189, A0190, A0191, A0192, A0193, A0194, A0195, A0083, A0242, A0243, A0244, A0245, A0200, A0246, A0247, A0248, A0249, A0205, A0206, A0250, A0251, A0252, A0253, A0254, A0255, A0256, A0212, A0213, A0257, A0258, A0259, A0217, A0218, A0219, A0220, A0221, A0224, A0225, A0226, A0225, A0226, A0260, A0227, A0225, A0226	S0009, S0017, S0017, S0018, S0020, S0019, S0038, S0039, S0040
Diesel Engine\Delphi System\Del Unit Pump (China III)\Delphi Unit Pump I				✓	✓	✓		
Diesel Engine\Delphi System\Del Unit Pump (China III)\Delphi Unit Pump II			✓	✓	✓	✓		
Diesel Engine\Nanyue System (CAN)\Nanyue Unit Pump R01 (Yuchai After 2011)				✓	✓	✓		S0001
Diesel Engine\Nanyue System (CAN)\Nanyue Unit Pump R01 Four Cylinder				✓	✓	✓		S0001, S0010
Diesel Engine\Nanyue System (CAN)\Nanyue Unit Pump R01 Six Cylinder				✓	✓	✓		S0001, S0010
Diesel Engine\Nanyue System (CAN)\Nanyue Unit Pump R02 Four Cylinder Hall				✓	✓	✓		S0001, S0010
Diesel Engine\Nanyue System (CAN)\Nanyue Unit Pump R03 (J1939)				✓	✓	✓		
Diesel Engine\Nanyue System (CAN)\Nanyue Unit Pump R04 (J1939)			✓	✓	✓	✓	Please refer to DACHAI Function List	
Diesel Engine\Nanyue System (CAN)\Nanyue OBD				✓	✓	✓		
Diesel Engine\Nanyue System (CAN)\Nanyue ECU4PH (China IV)				✓	✓	✓		
Diesel Engine\WIT System\WIT Unit Pump System (ECU25)				✓	✓	✓	A0025, A0026, A0027, A0028, A0029, A0030, A0031, A0032, A0002, A0033	S0009, S0011

Diesel Engine\WIT System\WIT Unit Pump System (ECU21)		✓	✓	✓	A0035, A0036	
Diesel Engine\WIT System\WIT Unit Pump System RS232 (Yuchai)		✓	✓	✓		
Diesel Engine\WIT System\WIT Unit Pump System RS232		✓	✓	✓		
Diesel Engine\WIT System\WIT Unit Pump System RS232 (Perkins)		✓	✓	✓		
Diesel Engine\WIT System\WIT Unit Pump System (J1939)		✓	✓	✓		
Diesel Engine\Yuchai Unit Pump\OBD Diagnosis		✓	✓	✓		
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Autonomous System YCECU\Automatic Identification					SCAN	
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Autonomous System YCECU\Manual selection\Power_A_01_EOL-1	✓	✓	✓	✓	A0034	
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Autonomous System YCECU\Manual selection\Power_A_01_EOL-2	✓	✓	✓	✓	A0034	
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Autonomous System YCECU\Manual selection\Power_A_01_EOL-3	✓	✓	✓	✓	A0034	
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Autonomous System YCECU\Manual selection\Power_A_01_EOL-4	✓	✓	✓	✓	A0034	
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Autonomous System YCECU\Manual selection\Power_A_01_EOL-5		✓	✓	✓	A0034	
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Autonomous System YCECU\Manual selection\Power_A_01_EOL-6	✓	✓	✓	✓	A0034	
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Autonomous System YCECU\Manual selection\Power_A_01_EOL-7		✓	✓	✓	A0034	
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Autonomous System YCECU_ST_1B0000000		✓	✓	✓		
Diesel Engine\Yuchai Autonomous System (CAN)\Yuchai Electronic Control Diesel System (Ship Engine)					SCAN	
Diesel Engine\Beijing ASIMCO Tianwei System	✓	✓	✓	✓		S0014
Diesel Engine\Yudong Power BYC Common Rail	✓	✓	✓	✓		
Diesel Engine\Yuchai Power ECTEK\Yuchai Power YCD4N1L (CAN)	✓	✓	✓	✓		
Diesel Engine\Yuchai Power ECTEK\Yuchai Power YCD4F4S-115	✓	✓	✓	✓	A0034, A0041, A0042, A0043, A0044	
Diesel Engine\Yuchai Power ECTEK\Yuchai ECTEK Unit Pump (CAN)	✓	✓	✓	✓	A0034, A0041, A0042, A0043, A0044	
Diesel Engine\Yuchai Power ECTEK\F02 Common Rail System YC4E (China IV)	✓	✓	✓	✓		
Diesel Engine\Yuchai Power ECTEK\F02 Common Rail System YCD4 (China V)	✓	✓	✓	✓	A0034, A0041, A0042, A0043, A0044	
Diesel Engine\Yuchai Power ECTEK\ECTEK Common Rail System YCD4 (China IV)	✓	✓	✓	✓		
Diesel Engine\Yuchai Power ECTEK\ECTEK System (J1939)		✓	✓	✓		
Diesel Engine\Raywin engine (S3110)	✓	✓	✓	✓		
Natural Gas Engine\Yuchai Autonomous Natural Gas System (YCGCU)\Automatic Identification					SCAN	
Natural Gas Engine\Yuchai Autonomous Natural Gas System (YCGCU)\Manual selection\Yuchai Natural Gas ESI System (YCGCU EOL_1)	✓	✓	✓	✓		
Natural Gas Engine\Yuchai Autonomous Natural Gas System (YCGCU)\Manual selection\Yuchai Natural Gas ESI System (YCGCU EOL_2)	✓	✓	✓	✓	A0066, A0067, A0068, A0069, A0070, A0071	S0013
Natural Gas Engine\Yuchai Autonomous Natural Gas System (YCGCU)\Manual selection\Yuchai Natural Gas ESI System (YCGCU EOL_3)	✓	✓	✓	✓	A0072, A0066, A0067, A0068, A0069, A0070, A0071	S0013
Natural Gas Engine\Yuchai Autonomous Natural Gas System (YCGCU)\Manual selection\Yuchai Natural Gas ESI System (YCGCU EOL_4)	✓	✓	✓	✓	A0072, A0066, A0067, A0068, A0069, A0070, A0071	S0013
Natural Gas Engine\Yuchai Autonomous Natural Gas System (YCGCU)\Manual selection\Yuchai Natural Gas ESI System (YCGCU EOL_5)	✓	✓	✓	✓	A0072, A0066, A0067, A0068, A0069, A0070, A0071	S0013
Natural Gas Engine\Yuchai Autonomous Natural Gas System (YCGCU)\Manual selection\Yuchai Natural Gas ESI System (YCGCU Default)	✓	✓	✓	✓		
Natural Gas Engine\Yuchai Natural Gas ESI System (China VI)	✓	✓	✓	✓		
Natural Gas Engine\Yuchai Natural Gas ECI System		✓	✓	✓		
Natural Gas Engine\Yuchai Natural Gas ECI System (China VI)	✓	✓	✓	✓	A0218, A0261, A0262, A0263, A0264, A0265, A0266	S0009, S0018, S0079, S0080, S0081, S0082, S0083, S0084, S0085, S0086, S0087, S0088, S0089, S0090, S0091, S0092, S0093, S0094, S0095
Natural Gas Engine\Yuchai Natural Gas EControls 3G System (CAN)	✓	✓	✓	✓	A0034	
Natural Gas Engine\Yuchai Natural Gas EControls 3G System (TTL)	✓	✓	✓	✓		S0001
Natural Gas Engine\Yuchai Natural Gas EControls 4G System (CAN)	✓	✓	✓	✓	A0073, A0074	
Natural Gas Engine\Yuchai Natural Gas EControls 4G System (CAN China VI)	✓	✓	✓	✓		
Natural Gas Engine\Yuchai Natural Gas (CNG&LNG) (China VI)	✓			✓		
Exhaust Aftertreatment\Yuchai Autonomous Exhaust Aftertreatment System (Guangxi Sanli)\Sanli Exhaust Aftertreatment Diagnosis	✓	✓	✓	✓	Please refer to SCR Function List	
Exhaust Aftertreatment\Yuchai Autonomous Exhaust Aftertreatment System (Guangxi Sanli)\AdBlue pump drive test	✓	✓	✓	✓	Please refer to SCR Function List	

Exhaust Aftertreatment\Bosch Exhaust Aftertreatment\Bosch Exhaust Aftertreatment System	✓	✓	✓	✓		
Exhaust Aftertreatment\Bosch Exhaust Aftertreatment\Bosch DNOx2 Exhaust Aftertreatment System (EDC7UC31)	✓	✓	✓	✓	Please refer to SCR Function List	
Exhaust Aftertreatment\Bosch Exhaust Aftertreatment\Bosch DNOx2.2 Exhaust Aftertreatment System (EDC17CV44 China IV)	✓	✓	✓	✓	Please refer to SCR Function List	
Exhaust Aftertreatment\Bosch Exhaust Aftertreatment\Bosch DNOx2.2/6.5 Exhaust Aftertreatment System (China V)	✓	✓	✓	✓	Please refer to SCR Function List	
Exhaust Aftertreatment\Yili Lanjie Exhaust Aftertreatment\Yili Lanjie	✓	✓	✓	✓		
Exhaust Aftertreatment\Yili Lanjie Exhaust Aftertreatment\Yuchai Silver Wheel Exhaust Aftertreatment System	✓	✓	✓	✓	Please refer to SCR Function List	
Exhaust Aftertreatment\Yili Lanjie Exhaust Aftertreatment\Yili Lanjie (Silver Wheel) Exhaust Aftertreatment\Yili Lanjie DCU Exhaust Aftertreatment System (China IV)	✓	✓	✓	✓	Please refer to SCR Function List	
Exhaust Aftertreatment\Yili Lanjie Exhaust Aftertreatment\Yili Lanjie (Silver Wheel) Exhaust Aftertreatment\Yili Lanjie DCU Exhaust Aftertreatment System (China IV/V)	✓	✓	✓	✓	Please refer to SCR Function List	
Exhaust Aftertreatment\ECTEK Exhaust Aftertreatment\ECTEK DCU Exhaust Aftertreatment System	✓	✓	✓	✓	Please refer to SCR Function List	
Exhaust Aftertreatment\Qintai Pump Exhaust Aftertreatment\Qintai Pump Exhaust Aftertreatment System (Yuchai)	✓	✓	✓	✓	Please refer to SCR Function List	
Exhaust Aftertreatment\KDS Exhaust Aftertreatment\KDS Exhaust Aftertreatment KDS3.1 (Yuchai Power Engine)	✓	✓	✓	✓	Please refer to SCR Function List	
Automatic Transmission Control Unit (TCU)					SCAN	
Range extender control system (RCU)	✓	✓	✓	✓		
Yuchai Intelligent Management System YCGMS\P_ECTEKF05_A03T4_100_AP146_T010	✓	✓	✓			
Yuchai Intelligent Management System YCGMS\P_ECTEKF05_A03T4_100_RC001	✓	✓	✓			
Yuchai Intelligent Management System YCGMS\P_ECTEKF05_A03T4_100_BT009	✓	✓	✓			
Yuchai Intelligent Management System YCGMS\P_ECTEKF05_A03T4_100_BT011	✓	✓	✓			
Hybrid Power					SCAN	
Manual operation\Bosch Common Rail System Idle Speed Fine Adjustment Function Instructions						
Manual operation\WIT flash code query						S0041, S0042, S0043, S0044, S0045, S0046, S0047, S0048, S0049, S0050, S0051, S0052, S0053, S0054, S0055, S0056, S0057, S0058, S0059, S0060, S0061, S0062, S0063, S0064, S0065, S0066, S0067, S0068, S0069, S0070, S0071, S0072, S0073, S0074, S0075, S0076, S0077, S0078

Special Function Table	
S0001	Cylinder cut off Test
S0002	High-pressure Test
S0003	Accelerated Testing
S0004	Compression Test
S0005	Startup fault information
S0006	Injector code - 20 bits
S0007	Injector code - 16 bits
S0008	Leak test
S0009	Read and Write Vehicle Identification Number (VIN)
S0010	Idle speed adjustment
S0011	Oil correction code
S0012	Idle comparison test
S0013	Clear adaptive table
S0014	Fuel evaporation system leak test
S0015	DPF forced regeneration
S0016	Aftertreatment AdBlue system test
S0017	Reading and writing of the injector code (QR code)
S0018	Read and Write Engine Number
S0019	Read and Write Engine Model
S0020	Read and Write Engine Code
S0021	Correction limit output test
S0022	Automobile wheel test
S0023	Engine brake test
S0024	MeUn test
S0025	DPF value reduction
S0026	DPF regeneration request
S0027	DPF Manual Regeneration
S0028	Read and write simulated soot content
S0029	DPF learning value reset
S0030	DPF regeneration
S0031	DPF Regeneration at Idle
S0032	DPF Regeneration Vehicle Running
S0033	DPF value reset
S0034	Injector 1 Shut Off Test
S0035	Injector 2 Shut Off Test
S0036	Injector 3 Shut Off Test
S0037	Injector 4 Shut Off Test
S0038	Engine number (F126)
S0039	Engine model (F128)
S0040	Engine code (F129)
S0041	1001 Engine starting failure-starting time exceeds 15 seconds - Serious
S0042	0563 Battery voltage is too high - Serious
S0043	0201 First cylinder injection fault - General
S0044	0202 Second cylinder injection fault - General
S0045	0203 third cylinder Injection fault - General
S0046	0204 4th cylinder injection fault - General
S0047	0205 Fifth cylinder injection fault - General
S0048	0206 6th cylinder injection fault - General
S0049	1010 Fuel Injection Failure-This error is reported when the injection failure of more than 2 cylinders (including 2 cylinders) - serious.
S0050	0115 Cooling water temperature sensor circuit fault - General
S0051	0116 Cooling water temperature sensor out of range - General
S0052	0117 Cooling water temperature is low - General

S0053	0118 Cooling water temperature is high - General
S0054	0119 Cooling water temperature sensor loose contact General
S0055	0217 Cooling water temperature is too high - General
S0056	0110 Temperature sensor circuit fault after intercooling - General
S0057	0111 Temperature out of range after intercooling - General
S0058	0112 Low temperature after intercooling - General
S0059	0113 High temperature after intercooling - General
S0060	0114 Temperature sensor Loose contact after intercooling - General
S0061	0127 Temperature is too high after intercooling - General
S0062	0105 Pressure sensor line faulty after intercooling - General
S0063	0106 The pressure out of range after intercooling - General
S0064	0107 Low pressure after intercooling - General
S0065	0108 High pressure after intercooling - General
S0066	0109 pressure sensor Loose contact after intercooling - General
S0067	0180 Fuel temperature sensor circuit fault - General
S0068	0181 Fuel temperature sensor out of range - General
S0069	0182 Fuel temperature low - General
S0070	0183 Fuel temperature is high - General
S0071	0184 Fuel temperature sensor loose contact - General
S0072	0168 Fuel temperature is too high - General
S0073	0335 There is no signal from the crankshaft speed sensor - Serious
S0074	0336 The signal of the crankshaft speed sensor is abnormal - Serious
S0075	0345 Camshaft position sensor has no signal - Serious
S0076	0346 The signal of the camshaft position sensor is abnormal - Serious
S0077	0120 Throttle position sensor circuit fault - Serious
S0078	0121 Throttle position is out of range - Serious
S0079	Misfire adaptive clearing
S0080	Exhaust brake/in-cylinder brake request switch
S0081	In-cylinder braking function
S0082	Idle Speed Fine Adjustment Function
S0083	Accelerator remote (proportional PTO)
S0084	Electronic fan 2
S0085	Electronic fan 1
S0086	Under-vehicle assisted start
S0087	Under-car auxiliary shutdown
S0088	Air-fuel ratio adaptive clearing
S0089	Forced idle switch
S0090	Starter control
S0091	Fine-tuning PTO function
S0092	Fine-tuning PTO exit switch
S0093	The default speed when the fine-tuning PTO function entered
S0094	Cruise control and maximum speed limit
S0095	Air Conditioner Control
S0096	Vehicle identification code(VIN)
S0097	DPF simulates soot volume

Active Test Table

A0001	EGR throttle actuator (limit to 5 cylinders)
A0002	EGR Throttle Valve
A0003	Electric plug
A0004	IMV
A0005	VGT valve actuator
A0006	Fan 2
A0007	Fan 1
A0008	Power Relay
A0009	Engine test lamp
A0010	Electric plug lamp
A0011	immobilizer Indicator output
A0012	Air conditioning relay
A0013	Auxiliary heater #2
A0014	Auxiliary heater #1
A0015	Oil filter indicator
A0016	Injector # 1
A0017	Injector # 2
A0018	Injector # 3
A0019	Injector # 4
A0020	Nozzle #5
A0021	Engine equipment level control
A0022	Remote start enable output
A0023	Eddy current actuator
A0024	Fault lamp
A0025	OBD lamp
A0026	Fault diagnosis light
A0027	Preheat indicator
A0028	Preheating relay
A0029	Exhaust brake light
A0030	Exhaust valve
A0031	Electronic fan
A0032	Speed output
A0033	Fuel injection solenoid valve
A0034	Cylinder cut off Test
A0035	Fault lamp diagnosis
A0036	Electronic fuel pump
A0037	Cold Startup Lamp
A0038	Intake manifold preheat relay
A0039	Engine exhaust brake valve
A0040	A/C Compressor
A0041	EGR valve target position control
A0042	Start relay control
A0043	Preheating relay control
A0044	Knock the cylinder test
A0045	IMV test
A0046	Power main relay
A0047	Engine fault lamp
A0048	Intake throttle valve
A0049	glow plug
A0050	Inlet metering valve
A0051	VGT (variable geometry turbocharger)
A0052	Main Relay
A0053	MIL
A0054	Glow plug light
A0055	Starter Relay
A0056	SAS activation lamp
A0057	Main cruise control light
A0058	Cruise control turn on light

A0059	alternator regulator
A0060	Oil water separator water volume exceeds Limit alarm light
A0061	Injector1
A0062	Injector2
A0063	Injector3
A0064	Injector4
A0065	Check engine lights
A0066	Nozzle test (stop effective)
A0067	Low pressure shut-off valve test (stop effective)
A0068	Throttle test (stop effective)
A0069	Ignition cylinder cut off test
A0070	Nozzle cut-off test
A0071	Exhaust bypass valve test
A0072	Ignition test (stop active)
A0073	Disconnect spark plug test
A0074	Fuel injection Inverter test
A0075	Malfunction Indicator Lamp (MIL) Lamp test
A0076	Preheating lamp test
A0077	Boost pressure
A0078	Valve actuator test
A0079	Low idle brake switch
A0080	Metrology unit
A0081	Prepump actuator test (digital)
A0082	Service Lamp
A0083	Throttle Actuator Test
A0084	Rail Pressure Test
A0085	Path Shut Off Test
A0086	Turn off cylinder signal test
A0087	Valve Actuator Learning Offset Test
A0088	Preheater Test
A0089	Fuel Filter Heater Test
A0090	Starter signal test
A0091	Throttle learning offset test
A0092	AdBlue metering valve actuator test mark
A0093	Urea return pipe heater actuator signal test
A0094	AdBlue Pressure Line Heater
A0095	AdBlue suction tube heater
A0096	Urea supply pipe heater actuator signal test
A0097	AdBlue tank heater
A0098	AdBlue Pump Motor
A0099	Urea reversing valve actuator signal test
A0100	ATS for oxicat temperature sensor
A0101	ATS for PFit temperature sensor
A0102	ATS for SCR temperature sensor
A0103	Urea metering valve test
A0104	High Pressure Shut Off Test
A0105	Correction limit output test
A0106	Automobile wheel test
A0107	Engine brake test
A0108	MeUn test
A0109	Globe valve high side
A0110	Turbocharger testing
A0111	EGR valve test
A0112	Engine brake switch
A0113	Preheat indicator light test
A0114	OBD/MIL lamp test
A0115	Oil metering unit
A0116	System fault indicator test
A0117	Throttle test
A0118	Rail pressure target test
A0119	Throttle position self-learning test
A0120	AdBlue pressure pipe heating test
A0121	AdBlue suction pipe heating test
A0122	AdBlue supply pipe heating test
A0123	AdBlue box heating test
A0124	AdBlue pump test
A0125	Urea reversing valve test
A0126	Exhaust temperature sensor test
A0127	DPF upstream sensor temperature test
A0128	SCR upstream sensor temperature test
A0129	SCR injection valve testing
A0130	Engine oil cut off test
A0131	EGR self-learning test
A0132	AdBlue Metering valve actuator test
A0133	AdBlue return pipe heating test
A0134	Intake heating control valve test
A0135	Fuel filter heater test
A0136	Starter test
A0137	ATS for oxicat temperature sensor testing
A0138	DPF Upstream Temperature Sensor Test
A0139	SCR Upstream Temperature Sensor Test
A0140	Rail pressure control test
A0141	Injector 1 Shutdown Test
A0142	Injector 2 Shutdown Test
A0143	Injector 3 Shutdown Test
A0144	Injector 4 Shutdown Test
A0145	Engine Power Balance Test
A0146	Injector Drift Test
A0147	Injector Stops Opening Test at Startup
A0148	Injector 1 Buzzing Test
A0149	Injector 2 Buzzing Test
A0150	Injector 3 Buzzing test
A0151	Injector 4 Buzzing test
A0152	High pressure system hydraulic test
A0153	Cylinder compression test
A0154	Minimum drive pulse Update cycle adjustment
A0155	Minimum Drive Pulse Width Learning at Idle
A0156	IMV Beep Test
A0157	Injector injection test
A0158	Injector clogging test in starting state
A0159	Injector 1 buzzing test
A0160	Injector 2 buzzing test
A0161	Injector 3 buzzing test
A0162	Injector 4 buzzing test
A0163	Fan drive 1
A0164	Fan drive 2

A0165	Starter relay test
A0166	Exhaust Brake Test
A0167	IMV Buzzer Test
A0168	VGTH Valve Test
A0169	Glow plug test
A0170	A/C compressor test
A0171	Malfunction Indicator Lamp (MIL) Lamp test
A0172	Glow plug indicator light test
A0173	IMMO indicator light test
A0174	ISG indicator test
A0175	DPF indicator light test
A0176	Power indicator test
A0177	Engine malfunction indicator test
A0178	Water in Fuel Indicator Light Test
A0179	Regeneration Inhibit Lamp Test
A0180	Regeneration Warning Light Test
A0181	Regeneration active light test
A0182	Low fuel pressure light test
A0183	Emergency Brake Light Test
A0184	Fuel heating lamp test
A0185	Cruise Control Lamp Test
A0186	ESC Lamp Test
A0187	Low oil pressure warning light test
A0188	HPV Valve Test
A0189	Power Supply Relay Test
A0190	Fuel Heater Relay Test
A0191	Engine Speed Signal Test
A0192	Engine Speed Dependent Relay Test
A0193	Fuel Lift Pump Test
A0194	Power Mode Lamp Test
A0195	EGRH Test
A0196	Stop and Start Strategy Test
A0197	EGR cooling valve test
A0198	Turbocharger test
A0199	ISO injector circuit test
A0200	DTI ISO Mode for Injectors DDS
A0201	DTI mode of EGR valve
A0202	EGR throttle actuator DTI Mode
A0203	DTI mode of VGT valve actuator
A0204	Idle control DTI mode
A0205	DPF Regeneration at Idle
A0206	DPF Regeneration Vehicle Running
A0207	IMV Test
A0208	Injector 1 Shut Off Test
A0209	Injector 2 Shut Off Test
A0210	Injector 3 Shut Off Test
A0211	Injector 4 Shut Off Test
A0212	Power Balance Test
A0213	RPC Priming by RVD
A0214	Electric water heater test
A0215	LNT deoxygenation test
A0216	Alternator control
A0217	Hydraulic Test
A0218	Compression Test
A0219	MDP Update Period Adjustment
A0220	APC Starting Test
A0221	EOL IMV Override Test
A0222	Injector DDS' s DTIISO mode
A0223	Compression test
A0224	DPF frequently regenerates and clears related NVV
A0225	EGR test
A0226	Throttle test
A0227	Reset P102E Rail pressure too high for too long fault
A0228	DPF lamp test
A0229	Fuel heater test
A0230	Cruise control test
A0231	Low Oil Pressure Warning Lamp Test
A0232	RPC Priming by RVD
A0233	Injector Stuck Test During Startup
A0234	Fan 1 Actuator Test
A0235	Fan 2 Actuator Test
A0236	IMV Buzzing Test
A0237	Turbocharger Valve Test
A0238	glow plug test
A0239	A/C Relay Test
A0240	Regeneration Activated Lamp Test
A0241	High Pressure Valve Test
A0242	Stop and Start Strategy Test
A0243	EGR cooling bypass valve test
A0244	Fan 2 Actuator I/O Control
A0245	Start stop strategy I/O control
A0246	IMV Buzzing I/O Control
A0247	EGRH Test I/O Control
A0248	Glow plug I/O control
A0249	DTI Mode for Idle Control
A0250	Rail pressure control test - HPV
A0251	Rail pressure control test - IMV
A0252	Inlet Metering Valve (IMV) Test
A0253	Injector 1 Shut Off
A0254	Injector 2 Shut Off
A0255	Injector 3 Shut Off
A0256	Injector 4 Shut Off
A0257	Throttle valve I/O Control
A0258	Fuel Lift Pump I/O Control
A0259	Fan 1 Actuator I/O Control
A0260	DPF value reset
A0261	External power supply test
A0262	DBW Test
A0263	Spark Kill Test
A0264	Spark Fire Test
A0265	Idle Speed Test
A0266	Closed Loop Test