

SUNWIN V10.05 Diagnostics List (Note:For reference only)

vehicle	MODEL / SYSTEM / SUB. SYS.		INFO	RDTC	CDTC	DS	ACT	Spec.Func	Other
	VOLVO Engine		✓	✓	✓	✓			
	Yuchai Engine	YC4FA130-30	✓	✓	✓	✓			
		YC4FA130-42	✓	✓	✓	✓			
		YC4G180-30	✓	✓	✓	✓	✓		
		YC4G180-40	✓	✓	✓	✓	✓		
		YC4G200-30	✓	✓	✓	✓	✓		
		YC6G240-30	✓	✓	✓	✓	✓		
		YC6G240-31	✓	✓	✓	✓			
		YC6G270-30	✓	✓	✓	✓	✓		
		YC6G270-31	✓	✓	✓	✓			
		YC6J200-30	✓	✓	✓	✓	✓		
		YC6J200-42	✓	✓	✓	✓	✓		
		YC6J220-30	✓	✓	✓	✓	✓		
		YC6J220-42	✓	✓	✓	✓	✓		
		YC6J245-30	✓	✓	✓	✓	✓		
		YC6J245-42	✓	✓	✓	✓	✓		
		YC6L260-42	✓	✓	✓	✓	✓		
	YC6L280-42	✓	✓	✓	✓	✓			
		SC8DK215Q3	✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		SC8DK230. 1Q3	✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		SC8DK230Q4	✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;

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The highway bus / city bus / school bus	Shanghai Engine	SC8DK240Q4	√	√	√	√	√	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		SC8DK250Q4	√	√	√	√	√	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		SC8DK250Q3	√	√	√	√	√	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		SC8DK260Q3	√	√	√	√	√	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		SC8DK280Q3	√	√	√	√	√	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		SC9DF240Q4	√	√	√	√	√	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;

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		SC9DF260Q4	✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		SC9DK310Q4	✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		SC9DK320Q3	✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
	Weichai Engine	BOSCH EDC 7 Series	✓	✓	✓	✓	✓	Function test	Troubleshooting guidance
	DEUTZ Dachai	BF6M1013-26E3	✓	✓	✓	✓	✓	1. Read of pump classification;	1. Read environment
		BF6M1013-24E3	✓	✓	✓	✓	✓	1. Read of pump classification;	1. Read environment variables;
	Xichai	CA6DL1-26E3	✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		CA4DF3-17E3	✓	✓	✓	✓		1. Freeze frame; 2. Function test;	1. Actuator control; 2. ECU data modification;
		CA6DF3-20E3	✓	✓	✓	✓		1. Freeze frame; 2. Function test;	1. Actuator control; 2. ECU data modification;

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vehicle	MODEL / SYSTEM / SUB. SYS.		INFO	RDTC	CDTC	DS	ACT	Spec.Func	Other	
SUNWIN		CA6DF3-22E3	√	√	√	√		1. Freeze frame; 2. Function test;	1. Actuator control; 2. ECU data modification;	
	Cummins Engine	ISBE220 31	√	√	√	√		1. Driving record		
		ISDe185 31		√	√	√		1. ECM diagnostic test; 2. Work Order; 3. Service reset;		
	IVECO Engine		√	√	√	√	√			
	Fault Code Information Search									
	BOSCH Identification			√	√	√	√			
	VOLVO Engine			√	√	√	√			
	BOSCH System		BOSCH EDC 7 Series	√	√	√	√	√	1. High pressure test 2. Acceleration test 3. Cylinder cutoff test 4. Compression test 5. Startup Fault Information 6. Idling speed compare 8. Read Calibration Data 9. Revise Calibration	
			BOSCH EDC 16 Series	√	√	√	√	√	1. Read Calibration Data 2. Revise Calibration Data	
			BOSCH EDC 17 Series	√	√	√	√	√	1. Cylinder cutoff test 2. Revolution comparison test 3. Startup Fault Information 4. Injector coding function 5. VIN refresh 6. CAL_ID refresh 7. Clear the counter for PRV valve timeout 8. Cleared the time for PRV valve	
			YUCHAI Self-Developed Detection		√	√	√	√		
			YUCHAI Self-Developed YCECU (Version I)		√	√	√			

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vehicle	MODEL / SYSTEM / SUB. SYS.		INFO	RD TC	CD TC	DS	ACT	Spec.Func	Other	
	Yuchai	Developed System	YUCHAI Self-Developed YCECU (Version II)		✓	✓	✓	✓		
			YUCHAI Self-Developed Diesel YCECU ST-1B0000000		✓	✓	✓			
	Delphi Sysetem	Delphi Common Rail System	Delphi Common Rail System		✓	✓	✓		1. Read & Write Injector C3I Code	
			Delphi Common Rail Engine (Customized)		✓	✓	✓		1. Read & Write Injector C3I Code	
			Delphi Common Rail System (12V)	✓	✓	✓	✓	✓	1. Write VIN Code 2. Injector data	
			Delphi Diesel Engine System (Euro-III)	✓	✓	✓	✓	✓	1. Write VIN Code 2. Injector data	
			Delphi EUP I	✓	✓	✓	✓		1.Freeze Frame	
			Delphi EUP II	✓	✓	✓	✓			
	Nanyue System	Nanyue (High Energy) EUP	Nanyue (High Energy) EUP		✓	✓	✓			
			Nanyue (High Energy) EUP (National Standard IV)		✓	✓	✓			
			Nanyue (Hengyang) EUP R01(4 Cylinder)		✓	✓	✓	✓	1.Idle Speed Adjustment	
			Nanyue (Hengyang) EUP R01(6 Cylinder)		✓	✓	✓	✓	1.Idle Speed Adjustment	
			Nanyue (Hengyang) EUP R02(4 Cylinder)		✓	✓	✓	✓	1.Idle Speed Adjustment	
			Nanyue EUP System (J1939)		✓	✓	✓			
			Nanyue OBD System		✓	✓	✓			
			Weite System	Weite EUP System	Weite EUP System (ECU25)		✓	✓		✓
	Weite EUP System (YUCHAI)				✓	✓	✓		1.Read & Write Pump Code	
	Weite EUP System (RS232)				✓	✓	✓			
	Weite EUP System (RS232) (Customized)				✓	✓	✓			
	Weite EUP System (J1939)				✓	✓	✓			
	Shangchai			✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;

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vehicle	MODEL / SYSTEM / SUB. SYS.		INFO	RDTC	CDTC	DS	ACT	Spec.Func	Other
	Weichai	Weichai Euro III (K-Line)	✓	✓	✓	✓	✓	Function test	Troubleshooting guidance
		Weichai Power Engine System (K-Line)	✓	✓	✓	✓	✓	1.Starting fault information 2.Idle speed comparison 3.Flow measurement unit test 4.Compression test 5.High pressure test 6.Acceleration test 7.Cylinder cut off	1.Read frozen frame
		BOSCH Diesel EDC7 (K-Line)	✓	✓	✓	✓	✓	1.Starting fault information 2.Idle speed comparison 3.Flow measurement unit test 4.Compression test 5.High pressure test 6.Acceleration test 7.Cylinder cut off	1.Read frozen frame
		BOSCH Diesel EDC7 (CAN)		✓	✓	✓	✓		
		BOSCH Diesel EDC7 (J1939 CAN)		✓	✓	✓			
		BOSCH EDC7UC31 (CAN)	✓	✓	✓	✓			
		Weichai EDC17 Euro IV Calibration Version (CAN)	✓	✓	✓	✓	✓	1、 Read calibration data 2、 Modify calibration data	
		Weichai BOSCH EOL Calibration Version	✓	✓	✓	✓	✓	1、 Read calibration data 2、 Modify calibration data	1. Close PTO function; 2. Open PTO function;
		Dachai 4DC2	✓	✓	✓	✓	✓	1. Engine Test; 2. Read parameters;	1. Modify system data;
		Dachai BOSCH_4JB1	✓	✓	✓	✓	✓	1. Engine Test; 2. Function test;	1. Injector test
		Dachai Nanyue R01 (CAN)		✓	✓	✓	✓		
		Dachai Nanyue R02 (CAN)		✓	✓	✓	✓		
		Dachai WIT Engine (CAN)		✓	✓	✓	✓		
		Dachai 6DE3	✓	✓	✓	✓	✓	1. Freeze frame;	
		Deutz BF6M	✓	✓	✓	✓	✓	1. Read of pump classification;	1. Read environment variables;

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		Deutz BF4M	✓	✓	✓	✓	✓	1. Read of pump classification;	1. Read environment variables;
		BOSCH	✓	✓	✓	✓	✓	1. Freeze frame; 2. Function test;	1. System information;
		BOSCH 4DF3	✓	✓	✓	✓		1. Freeze frame; 2. Function test;	1. Actuator control; 2. ECU data modification;
		Nanyue R01 (CAN)		✓	✓	✓			
		Nanyue R02 (CAN)		✓	✓	✓			
		DENSO 6DL1	✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		BOSCH 6DL1	✓	✓	✓	✓		1. Freeze frame; 2. Function test;	1. Actuator control; 2. ECU data modification;
		DENSO 4DL1	✓	✓	✓	✓	✓	1. Freeze frame; 2. System information;	1. Injector compensation quantity; 2. ECU data modification;
		BOSCH 4DL1	✓	✓	✓	✓		1. Freeze frame; 2. Function test;	1. Actuator control; 2. ECU data modification;
		BOSCH 6DL2	✓	✓	✓	✓		1. Freeze frame; 2. Function test;	1. Actuator control; 2. ECU data modification;
		CUMMINS ISDE		✓	✓	✓		1. ECM diagnostic test; 2. Work Order; 3. Service reset;	

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	Cummins	CUMMINS ISLE		✓	✓	✓		1. Service reset	
		CUMMINS ISF 2.8 CM 2220 IAN		✓	✓	✓	✓	1. Service reset	
		CUMMINS ISF 2.8 CM 2220 ECF2							
		CUMMINS ISF 2.8/3.8 CM 2220							
		CUMMINS ISF 3.8 CM 2220 ES							
		CUMMINS ISBE-1939	✓	✓	✓	✓		1. Driving record	
		CUMMINS ISBE-1708	✓	✓	✓	✓		1. Driving record; 2. Freeze frame	
		CUMMINS ISBE4-1939	✓	✓	✓	✓		1. Driving record	
		CUMMINS ISBE4-1708		✓	✓	✓			
		CUMMINS ISM		✓	✓	✓			
		CUMMINS ISC/ISL		✓	✓	✓			
	IVECO Engine	✓	✓	✓	✓	✓			

(*): Tested;

(?): Manual on website (www.x431.com)

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CONNECTOR	Heavy Duty(980390*****)	Heavy Duty(980391*****)
DIESEL-16	DIESEL-16	SMART OBD II-16E
OBD-6&9 II	OBD-6&9 II	SMART OBD II-16E
SMART OBDII-16	SMART OBD II-16H	SMART OBD II-16E