User Manual (F506)

FCON





SAFETY PRECAUTIONS

Warning: Read and understand all instructions in this manual. Use appropriate personal safety equipment including hearing and eye protection when using the scanner in or near the vehicle engine compartment. Failure to comply with this manual may result in accidents involving fire, electrical shock, or serious personal injury, etc.

Electrical

* Do not allow any object to be pressed in the cable assembly; Do not allow the cable assembly to be pinched; Keep the cable assembly away from heat, oil, sharp edges, or moving parts; Replace damaged cables immediately; Damaged cables increase the risk of electrical shock; Do not disassemble the scanner; This manual is not for repairing units; Please properly dispose used batteries; Do not incinerate batteries; Consult your local waste authority for available recycling and/or disposal options.

Use and Care

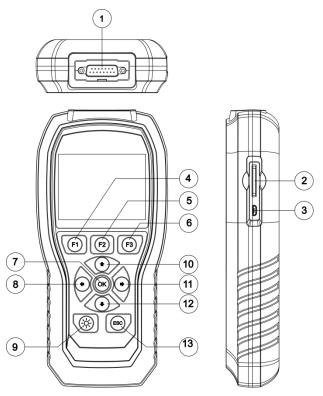
* Stay alert, and pay attention to what you are doing. Use common sense when the scanner is operated. When some functions are to be tested, the engine should be running. Children and visitors should keep a safe distance from the work area.

* Keep the scanner dry, clean, and free from oil and grease. Use a mild detergent on a clean cloth to wipe the dirt off when necessary.

Service

Service must only be performed by repair technicians of FCAR. Service & Maintenance by unqualified personnel may result in injury and damage to the unit, and may void your warranty. Refer to the Product Warranty Policy section of this manual.

INTRODUCTION Appearance and Key Descriptions



Serial No.	Name	Application
	Main	Connection interface connects
1	Testing	vehicle communication cable
	Cable	during the vehicle diagnosis.
		Installation interface of SD card
2	SD Card	(vehicle testing diagnosis software
		is installed in the SD card)
(3)	USB Port	Use to connect an external printer
3		(spare).

-		
(4)	[F1]	Function key, for advanced function menu use
	[F2]	Function key, for advanced
5		function menu use
6	[F3]	Function key, for advanced
		function menu use
\overline{O}	ОК	confirm
8	÷	left
9	×.	screen brightness
10	\uparrow	up
1)	\rightarrow	To the right
12	\rightarrow	down
13	ESC	return

Host Parameters

Hardware	Parameter	Type/Unit	
CPU	120MHZ	LPC1788	
Display	3.5 inch LCD		
Resolution Ratio	320x240	Dot matrix	
SD Card		National	
Interface	2GB/4GB/8GB	Standard	
Diagnostic	N.A. 1. 1.	DB15	
Interface	Main line		
Operating	1402014	V	
Voltage	11~28V		
Operating	<500 mA	mA	
Current			
Storage	-20℃~60℃	°C	
Temperature	-200 000		
Dimension	224.5*106.5*43	mm	

Functions

Class 4-Class 8 truck coverage featuring "Automatic Protocol Search".

HD J1708 and J1939 CAN, Engine, Transmission/ABS coverage, etc.

CAT Support: CAT Truck/Bus, CAT Construction,

CAT Power Equipment, CAT Agricultural, CAT Industrial, CAT On/Off Highway

* General Functions (Including Global OBD II coverage):

- Read ECU Information
- Read and Erase Fault codes
- Read Live Data
- Read Freeze Frame
- Graph Live Data
- Screenshot Function
- * Graph live data such as:
- Engine speed
- Engine ECU temperature
- Percent acceleration pedal position
- Engine intercooler temperature
- Engine coolant temperature
- Battery volts
- Alternator volts
- Ambient air temperature
- Air inlet temperature

Set measurement units in SAE English/Metric.

Internet upgrade

Application

Passenger cars and Business vehicles

Tow trucks, recreational vehicles, cement trucks, dump trucks, garbage trucks, buses, step vans, municipal vehicles, refrigerated trucks, and conventional trucks.

Heavy-Duty Standard compliant construction, marine, agriculture, and other industrial machinery and equipment.

Diesel power plant configurations

CAT Support: CAT Truck/Bus, CAT Construction, CAT Power Equipment, CAT Agricultural, CAT Industrial, CAT On/Off Highway

SAE J1850PWM, SAE J1850 VPW, ISO 14230-4, ISO 9141-2,ISO 15765-4,SAEJ1708, SAE J1939

The purpose of this manual is to guide you to use the scanner successfully. It is not a repair manual for your vehicle. For specific information on troubleshooting your vehicle, please refer to the owner's manual or various other repair manuals.

OPERATION

Connect the scanner to your vehicle: F506 communicates with the computer in your vehicle through a main-line connection. One end of the cable is plugged into the connector on DB15 of F506 and the other end to the adaptor, which is plugged in to the diagnostic socket on your vehicle.

CAUTION: The operating voltage of F506 is within 11V-28V, please make sure the output voltage of the diagnostic socket on your vehicle is 11V - 28V.

Turn the vehicle ignition key to ON or start the engine, and then the F506 will automatically start.(Fig.1&Fig.2)

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DIAGNOSTIC & OPERATING INTERFACE

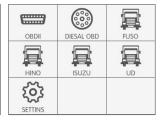
DIAGNOSE

Select Menu: Select the [DIESEL OBD] and press (OK) button; The HD Code $\,$ II $\,$ includes categories of the software: SAE J1939, SAE J1708 $\,$

Select Menu: Select the [CAT] and press (OK) button; The F506 includes categories of software: CAT Truck/Bus, CAT Construction, CAT Power Equipment, CAT Agricultural, CAT Industrial, CAT On/Off Highway Select the [OBDII] and press (OK) button; The F506 includes categories of software: ISO 14230, ISO15765, SAE J1850, ISO 9141-2, IOS 15765-4

OPERATING INTERFACE

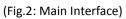




(Fig.1: Boot Screen)



(Fig.3: Read ECU Info)



Live Data
1 Torque/Speed Control 1
2 Electronic Brake Controller 1
3 Electronic Engline Controller 2
4 Electronic Engline Controller 1
5 Engline Temperrature 2

(Fig.4: Live Data View)

Clear Current fault Code
1 Ignition on and engine stopped.
2 DTCs and Freeze Data will be lost,Do you wish to continue?
ЗОК

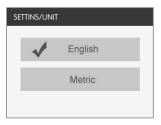
(Fig.5: Read Fault Code)

	Live Data	
1	Engine Override Control M ode	Override disable d - Disable any existing control commanded by the source of th s command
2	Engine Requested Speed Control Conditions	zed for driveline disengaged an d non-lockup co
	Graph Save	Compare

(Fig.7: Live Data View)

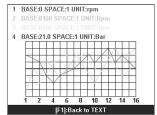


(Fig.9: Setting Interface)

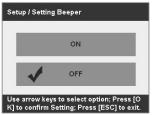


(Fig.11: Unit sitting)

(Fig.6: Read Current Fault Code)



(Fig.8: Graph Live data)



(Fig.10: Beeper On/Off)



(Fig.12: Device Self-test)

Caution

Make sure the connector is firmly attached.

Keep the vehicle ignition key ON or the engine running. Accessories connector:

OBD-16 pin connector supports J1708/J1587 or J1939 protocol.

DIESEL-9 pin connector supports J1708/J1587 protocol and J1939 protocol.

DIESEL-6 pin connector supports only J1708/J1587 protocol.

CAT-9 pin connector supports J1708/J1587 or J1939 protocol.

TROUBLESHOOTING GUIDE

If the F506 fails to connect to the vehicle:

1. Make sure the vehicle ignition key is in the ON position;

2. Make sure pins in connectors are not bent and contacted;

3. Make sure the cable connectors are plugged in firmly;

4. Make sure the diagnostics connector is clean.

How to self-test the F560:

Connect the power interface of the main test line, and then connect it to the 12V DC power supply. The F506 starts and then enters the system settings/SELF-TEST to test if the F560 is normal or abnormal (refer to Fig.12). Shenzhen Fcar Technology Co., Ltd.

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	as been inspected and certified to 's quality standards.
Product name	F506
Product serial number	
Date of production	

Warranty card	
Product name	F506
Product serial number	
Purchase date	
Company name:	
User address:	
Contact person:	
Contact number:	

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