AUTOPHIX F506

AUTOPHIX FCAR F506 Heavy Duty Truck Scanner User Manual

Model: F506

1. INTRODUCTION

The AUTOPHIX FCAR F506 Heavy Duty Truck Scanner is a comprehensive diagnostic tool designed for both heavy-duty trucks and light-duty vehicles. It provides full-system scanning capabilities, allowing users to read and clear trouble codes, view live data, and perform special functions across various vehicle systems.

2. PACKAGE CONTENTS

The FCAR F506 package typically includes:

- 1x F506 OBD2 Scanner Unit
- 1x 6-9 Y Pin J1939 Type 2 Connector
- 1x OBD 16 Pin Connector
- 1x USB Cable
- 1x User Manual
- 1x Soft Nylon Carrying Case

Image: FCAR F506 scanner unit and its packaging, illustrating the device and its protective case.

3. SETUP

1. **Power On:** Connect the F506 scanner to the vehicle's diagnostic port (OBD2, J1708, or J1939 depending on the vehicle). The device will power on automatically.

2. **Language Settings:** Navigate to "Settings" on the main menu. Select "Language" and choose your preferred language (e.g., English).

3. **Unit Settings:** In the "Settings" menu, select "Unit Setting" to choose between SAE English or Metric units.

4. **Software Update:** Ensure the device software is up-to-date for optimal performance and vehicle compatibility. Connect the scanner to a computer via USB and follow the internet update instructions provided in the full manual.

Wide Truck Compatibility

The F507 has a wide compatibility , you can be use it as long as your truck complies with the OBD2 protocol after 1996

Cement Trucks

Dump Trucks

Garbage Trucks

Refrigerated Trucks

Conventional Trucks

Industrial Machinery

Tow Trucks

Recreational Vehicles

Municipal Vehicles

Image: The main menu of the FCAR F506, displaying various diagnostic options for different vehicle types.

4. OPERATING INSTRUCTIONS

4.1. Full-System Diagnostics

The F506 supports full-system diagnostics for heavy-duty trucks, covering systems such as Engine, Airbag, Transmission, ECU/BCU, VCS, ABS, SRS, EBS, DCU, AT, Clutch System, Brake System, Meter System, Battery System, Inverter System, Hybrid System, and Immobilizer System.

1. From the main menu, select the appropriate vehicle type (e.g., "Diesel OBD", "Hino", "Isuzu", "Fuso", "UD").

2. Choose "Enter by system" or "Enter by year" if prompted.

3. Select the specific system you wish to diagnose (e.g., "Powertrain", "Chassis", "Car Body").

4. Follow the on-screen prompts to proceed with the diagnostic functions.

Image: The FCAR F506 screen showing various full-system diagnostic functions available for trucks.

4.2. Reading and Clearing Fault Codes

1. After selecting the vehicle system, choose "Read Fault Code" to view active and historical diagnostic trouble codes (DTCs).

2. To clear codes, select "Erase Fault Code" and confirm the action. Ensure any underlying issues are resolved before clearing codes.

4.3. Live Data Stream

The "Live Data" function displays real-time parameters from the vehicle's ECU, aiding in performance analysis and troubleshooting.

- Select "Live Data" from the diagnostic menu.
- Parameters include Engine speed, ECU temperature, Accelerator pedal position, Coolant temperature, Battery voltage, Alternator voltage, Ambient air temperature, and more.
- Data can be viewed in numerical format or graphically for easier analysis.
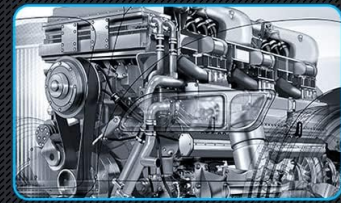
All Module Functions For Truck Owners

Engine control module	Idling stop/start module	Integrated control module
BlueTec/SCR module	Air suspension module	Anti-lock braking module
Headlamp auto-eveling module	Common powertrain controller	Combustion engine control unit
Battery control module	Anti-theft devices	Scaning cruise/ LDWS/PCS

Image: Live data display on the FCAR F506, showing real-time engine parameters.

4.4. Special Functions

The F506 offers various special functions for component adaptations and calibrations after repairs or replacements.

- Access "Special Function" from the system menu.
- Available functions may include pump adjust learn, fuel rail pressure tests, and other component-specific tests.

Your browser does not support the video tag.

Video: Demonstration of FCAR F506 performing diagnostics on a Mack truck, showcasing system selection and data reading.

Your browser does not support the video tag.

Video: Demonstration of FCAR F506 performing diagnostics on an International truck, illustrating the user interface and diagnostic process.

5. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the scanner unit. Avoid abrasive cleaners or solvents.

- **Storage:** Store the device in its protective carrying case in a dry, cool environment when not in use.
- **Software Updates:** Regularly check for software updates on the manufacturer's website to ensure compatibility with new vehicle models and improved functionalities. The device supports one-key updates.

6. TROUBLESHOOTING

- **Device Not Powering On:**

  - Ensure the diagnostic cable is securely connected to both the vehicle's DLC (Diagnostic Link Connector) and the scanner.
  - Verify the vehicle's ignition is in the ON position.
  - Check the vehicle's battery voltage.

- **Communication Error:**

  - Confirm the correct vehicle make, model, and year are selected.
  - Check for damaged diagnostic cables or connectors.
  - Ensure the vehicle's ECU is functioning correctly.

- **No Fault Codes Found:**

  - This indicates that the system currently has no stored diagnostic trouble codes.
  - If a problem persists, consider checking live data for abnormal readings or performing active tests on relevant components.

7. SPECIFICATIONS

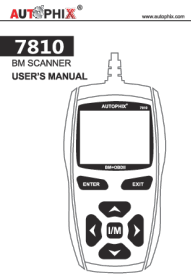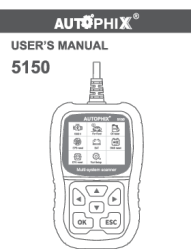| Feature	Detail
Brand	AUTOPHIX
Model	F506
Display	3.5" TFT Color Screen
Connectivity	J1708, J1939, OBD2 (SAE J1850PWM, SAE J1850 VPW, ISO 14230-4, ISO 9141-2, ISO 15765-4)
Vehicle Coverage	Most trucks with J1708/J1939, OBD2 automotive (1996 onwards), Hino, Mitsubishi Fuso, Isuzu, Nissan UD commercial vehicles (since 1992)
Operating System	Windows 7 (for updates)
Item Weight	2 pounds
Product Dimensions	12 x 9 x 3 inches

8. WARRANTY AND SUPPORT

The FCAR F506 comes with a 1-year warranty. For technical support, software updates, or any inquiries,

please refer to the contact information provided in the product packaging or visit the official AUTOPHIX website.

Related Documents - F506

AUTOPHIX OM126P USER'S MANUAL	**AUTOPHIX OM126P User Manual: Vehicle Diagnostic Tool Guide** Comprehensive user manual for the AUTOPHIX OM126P OBD II scanner. Learn how to diagnose vehicle issues, read/erase DTCs, check I/M readiness, and utilize advanced features for effective car maintenance.
AUTOPHIX 7810 BM SCANNER USER'S MANUAL	**AUTOPHIX 7810 OBD2 Scan Tool User Manual** Comprehensive user manual for the AUTOPHIX 7810 OBD2 Scan Tool, detailing features, specifications, and operation for vehicle diagnostics. Covers Engine, ABS, Airbag, and Transmission systems.
AUTOPHIX USER'S MANUAL 5150	**Autophix 5150 Automotive Diagnostic Scanner User Manual** Comprehensive user guide for the Autophix 5150 automotive diagnostic scanner, detailing its features, operation, setup, and troubleshooting steps for effective vehicle diagnostics.
AUTOPHIX USER'S MANUAL 3910	**Autophix 3910 OBD2 Scanner User Manual - Features and Operation** Detailed user manual for the Autophix 3910 OBD2 diagnostic scanner, covering its features, setup, functions, troubleshooting, and specifications for automotive diagnostics.
	AUTOPHIX 7360 User's Manual: OBD2 Scanner for Toyota, Lexus, Scion - Operation and Features Comprehensive user manual for the AUTOPHIX 7360 OBD2 diagnostic scanner. Learn how to connect, operate, and utilize features like Oil Reset, EPB Reset, BMS Reset, and system scans for Toyota, Lexus, and Scion vehicles. Includes product specifications, safety precautions, and update information.

[Autophix 3610 OBD2 Diagnostic Scanner User Manual - V1.3](#)
Comprehensive user manual for the Autophix 3610 OBD2 diagnostic scanner. This guide provides detailed instructions on features, specifications, operation, and troubleshooting for automotive diagnostics.