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› XTOOL IP500 OBD2 Scanner for Jeep/Dodge/Chrysler - Instruction Manual

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Comprehensive Diagnostic Tool for Vehicle Maintenance

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INTRODUCTION

The XTOOL IP500 OBD2 Scanner is a professional diagnostic tool designed for Jeep, Dodge, and Chrysler vehicles. It offers extensive system coverage, bi-directional control, and various special functions to assist in vehicle maintenance and repair. This manual provides detailed instructions for setting up, operating, and maintaining your device.

SETUP

1. Unboxing and Initial Power-On

Carefully remove the XTOOL IP500 device and its accessories from the packaging. The package includes the main unit, a USB to Type-C main cable, a VGA to OBD2-16 main cable, and a quick guide. Press and hold the power button to turn on the tablet.



Image: XTOOL IP500 device, USB to Type-C cable, VGA to OBD2-16 cable, and quick guide in its packaging.

2. Connecting to Wi-Fi and Registration

Connect the device to an available Wi-Fi network. Input your email address and password to register or log in to your XTOOL account. This step is crucial for activating the device and receiving updates.

Your browser does not support the video tag.

Video: Demonstrates connecting the XTOOL IP500 to Wi-Fi and the registration process.

3. Software Updates

After successful registration, check for available software updates. It is recommended to update all software to ensure optimal performance and compatibility with the latest vehicle models. The device offers lifetime free updates via Wi-Fi.



Image: The XTOOL IP500 screen showing the software update interface.

4. Connecting to Vehicle

Connect the VGA to OBD2-16 main cable to the device and then to your vehicle's OBD2 port, typically located under the dashboard on the driver's side. Ensure a secure connection. For 2018+ FCA vehicles, the device supports FCA AutoAuth for direct access to modules without bypass cables, after a one-time registration on AutoAuth.

FULL OBD2 FUNCTIONS



Image: The XTOOL IP500 connected to a vehicle's OBD2 port, ready for diagnostics.

OPERATING INSTRUCTIONS

1. Full System Diagnostics

From the main menu, select "Diagnosis" or "Auto Scan" to perform a comprehensive scan of all available vehicle modules. The IP500 can access over 30 critical modules including engine, transmission, ABS, airbag, and battery systems. Live data can be viewed in text or graphical format.



Image: The XTOOL IP500 displaying a full-system diagnostic scan, showing various vehicle modules.

2. Bi-Directional Control (Active Tests)

The bi-directional control function allows you to send commands to vehicle components and monitor their operation. This is useful for testing components like windows, mirrors, injectors, door locks, headlights, and wipers to accurately diagnose issues.

Bi-Directional Control

➤ Accurately troubleshoot every vehicle module to locate vehicle problems more efficiently



Image: The XTOOL IP500 screen showing options for bi-directional control and active tests on various vehicle components.

3. Special Functions (18+ Reset Services)

Navigate to "Special Function" from the main menu to access over 18 reset services. These include EPB Reset, SAS/BMS Calibration, Headlight Adjustment, Injector Coding, Throttle Matching, Gearbox Matching, Suspension Calibration, and more. Note that specific functions may vary by vehicle model.

ALL RESET SERVICES for JEEP/DODGE/CHRYSLER

» Quick menu for 21 hottest reset functions



ABS Bleeding



BMS Reset



Gearbox Matching



Maintenance Light Reset



Throttle Matching



SAS Reset



EPB Reset



Injector Coding

A/F A/F Settings



Language Change



Suspension System



Headlight Adjustment



Seat Matching



Window Initialization



Transport Mode



And More...

Image: The XTOOL IP500 displaying a quick menu for various reset and special functions.

4. Full OBD2 Functions

The device supports all standard OBD2 functions, including reading and clearing DTCs, viewing live data, freeze frame data, I/M readiness, O2 monitor tests, and vehicle information. This allows for quick and efficient emission-related diagnostics.

FULL OBD2 FUNCTIONS



Image: The XTOOL IP500 screen showing the full range of OBD2 diagnostic functions.

5. Live Data Graphing

Monitor real-time data from various sensors and modules. The IP500 can display up to four simultaneous PID data graphs, allowing for visual analysis of vehicle performance and accurate fault determination.

MULTI-IN-1 LIVE DATA GRAPH

➤ Diagnose the working status of various systems in the vehicle to more accurately determine faults.



Image: The XTOOL IP500 displaying a multi-in-1 live data graph for diagnosing vehicle systems.

MAINTENANCE

1. Software Updates

Regularly check for and install software updates via Wi-Fi to ensure your device has the latest vehicle coverage and diagnostic capabilities. Updates often include bug fixes and new features.

2. Device Cleaning and Storage

Keep the device clean by wiping it with a soft, dry cloth. Avoid using harsh chemicals. Store the device in a cool, dry place away from direct sunlight and extreme temperatures to prolong its lifespan.

3. Battery Care

The device is equipped with a 3150mAh lithium-ion battery. Charge the device using the provided USB to Type-C cable. Avoid fully discharging the battery frequently to maintain its health.

TROUBLESHOOTING

1. Device Not Powering On

Ensure the device battery is charged. Connect the device to a power source using the Type-C cable and try powering it on again.

2. Communication Error with Vehicle

Verify that the OBD2 cable is securely connected to both the device and the vehicle's OBD2 port. Ensure the vehicle's ignition is in the ON position (engine off or running as required by the test). Check the vehicle's battery voltage; low voltage can cause communication issues.

3. FCA AutoAuth Login Issues

Confirm that the device is connected to Wi-Fi. Double-check your AutoAuth username and password. If issues persist, contact AutoAuth support or XTOOL technical support.

4. Slow Performance or Lagging

Ensure the device has sufficient free memory. Clear unnecessary data or applications if possible. Perform a software update to resolve potential bugs affecting performance.

SPECIFICATIONS

- **Model:** IP500 for Jeep/Dodge/Chrysler
- **Operating System:** Linux
- **Processor:** 1.2GHz Dual-Core
- **Screen Size:** 5.45 Inches (1440 * 720 resolution touchscreen)
- **Internal Memory:** 32GB (supports up to 128GB external memory, not included)
- **Battery:** 3150mAh Lithium Ion (included)
- **Charging Interface:** Type-C
- **Connectivity:** Wi-Fi
- **Supported Languages:** 23 options including English, French, Spanish, German (defaults to English, one additional language can be stored)
- **Vehicle Compatibility:** Jeep/Dodge/Chrysler/RAM models (1998-2024)
- **Dimensions:** 9.84 x 6.3 x 3.54 inches
- **Item Weight:** 1.75 pounds



Image: Visual representation of XTOOL IP500's superior hardware specifications.

WARRANTY & SUPPORT

1. Lifetime Free Updates

The XTOOL IP500 comes with lifetime free software updates, ensuring continuous compatibility with new vehicle models and diagnostic advancements without additional subscription fees.

2. Technical Support

For any diagnostic problems or technical assistance, utilize the "Online Diagnostic Feedback" feature on the device to submit your issues directly to XTOOL for analysis and troubleshooting. You can also contact the support team via email at xtoolinplusus@outlook.com.

3. FCA AutoAuth Account

Note that the FCA AutoAuth account is not included with the device and subscriptions must be managed directly through AutoAuth. Alternatively, a 12+8 adapter can be obtained from the technical team if preferred.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question