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XTOOL IP500

XTOOL IP500 OBD2 Scanner User Manual

For Toyota, Lexus, and Scion Vehicles

Model: IP500 | Brand: XTOOL

1. INTRODUCTION

The XTOOL IP500 is a professional OBD2 diagnostic scan tool specifically designed for Toyota, Lexus, and Scion vehicles. It provides comprehensive full system diagnosis, bi-directional control, and various reset services, enabling users to accurately identify and resolve vehicle issues. This manual provides instructions for setting up, operating, and maintaining your IP500 device.



Image 1.1: The XTOOL IP500 OBD2 Scanner displaying its main interface with options for Auto Scan, Diagnosis, OBD II, Special

2. SETUP AND INITIAL USE

1. **Unpack the Device:** Carefully remove the XTOOL IP500 scanner, USB to Type-C main cable, VGA to OBD2-16 main cable, and quick guide from the packaging.
2. **Power On:** The device includes a built-in 3150mAh lithium-ion battery. Ensure it is sufficiently charged using the Type-C cable and a compatible charger (not included).
3. **Connect to Vehicle:** Locate your vehicle's OBD2 port, typically under the dashboard on the driver's side. Connect the VGA to OBD2-16 main cable to the scanner and then to the vehicle's OBD2 port. Turn the vehicle's ignition to the ON position (engine off).
4. **Initial Setup:** Follow the on-screen prompts to configure language, time zone, and Wi-Fi connection. A stable Wi-Fi connection is essential for software updates.
5. **Software Updates:** Connect to Wi-Fi and navigate to the "Updates" section on the main menu. Perform any available system and vehicle software updates to ensure optimal performance and the latest vehicle compatibility. The device supports lifetime free Wi-Fi updates.

3. OPERATING INSTRUCTIONS

3.1 Full Systems Diagnosis

The XTOOL IP500 provides comprehensive diagnostic capabilities across all vehicle systems, including engine, transmission, ABS, airbags, and more. This allows for accurate identification of Diagnostic Trouble Codes (DTCs) and monitoring of system status.

1. From the main menu, select "Diagnosis" or "Auto Scan".
2. The tool will automatically identify the vehicle's VIN (if supported) or prompt for manual selection of vehicle make, model, and year.
3. Initiate a full system scan. The device will communicate with all accessible Electronic Control Units (ECUs) to retrieve fault codes and live data.
4. Review the diagnostic report, which will display detected DTCs and their descriptions.

FULL-SYSTEMS DIAGNOSTIC for Toyota/Lexus/Scion



Image 3.1: The XTOOL IP500 connected to a vehicle, illustrating its capability to perform full system diagnostics across various components like engine, airbag, ABS, and transmission.

3.2 Bi-Directional Control (Active Tests)

Bi-directional control allows the scanner to send commands to vehicle systems and components to test their functionality directly. This feature is crucial for efficient troubleshooting and verifying repairs.

1. After selecting the vehicle, navigate to "Diagnosis" and then "System Selection".
2. Choose the specific system (e.g., Engine, ABS, Body) you wish to test.
3. Look for "Active Test" or "Bi-Directional Control" options.
4. Select the component to test (e.g., fuel pump, window motor, headlight). The scanner will send a command, and you can observe the component's response.

Bi-Directional Control

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

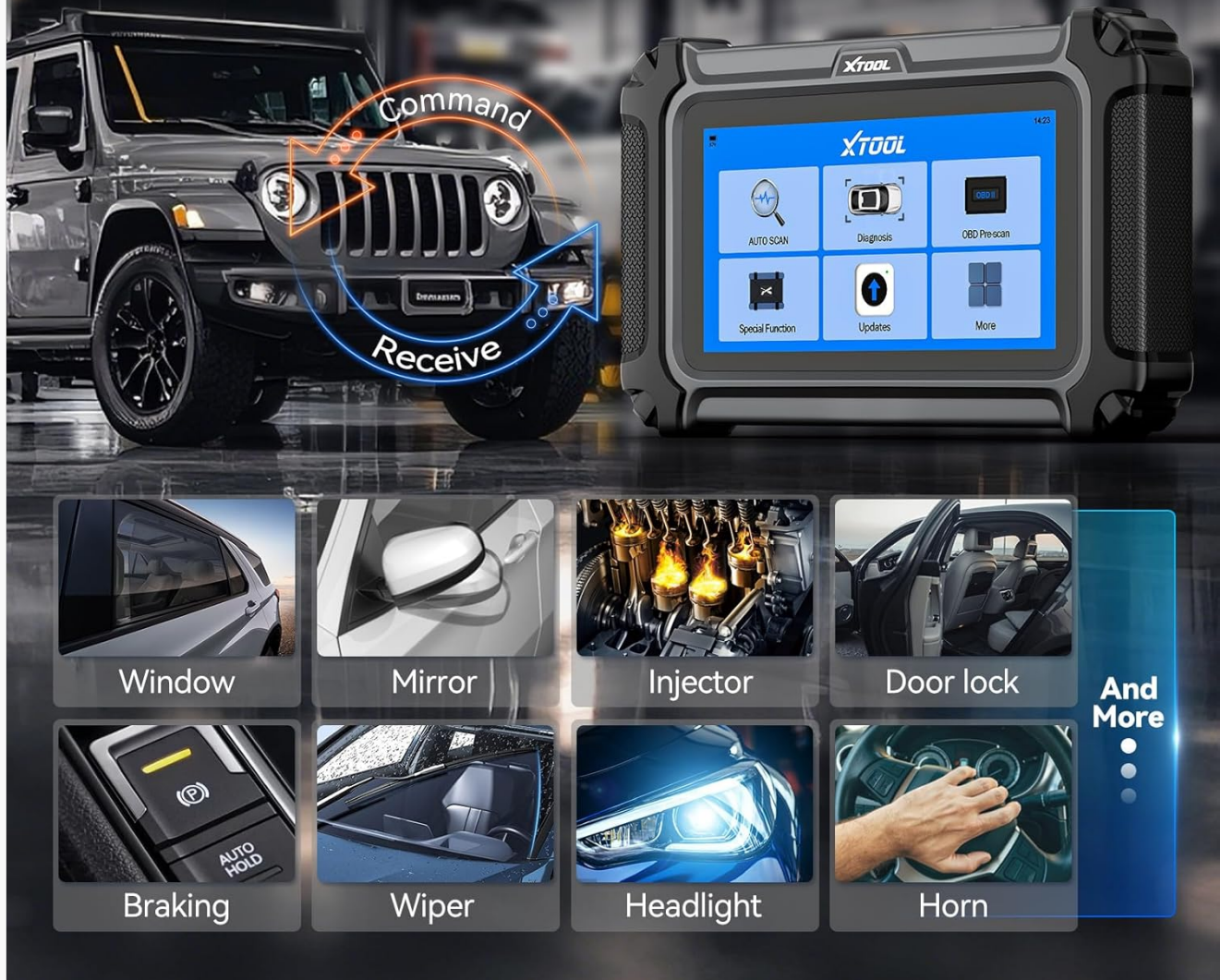


Image 3.2: The XTOOL IP500 performing bi-directional control, showing the ability to send commands and receive feedback from components such as windows, mirrors, injectors, and headlights.

3.3 Special Functions (Reset Services)

The IP500 offers 21 unique reset and service functions tailored for Toyota, Lexus, and Scion vehicles. These functions assist in maintenance and repair tasks.

- EPB Reset (Electronic Parking Brake)
- SAS Reset (Steering Angle Sensor)
- BMS Reset (Battery Management System)
- Throttle Reset
- ABS Bleeding
- Injector Coding
- Gearbox Match
- Suspension Adjustment
- Headlight Adjustment
- A/F Reset (Air/Fuel Ratio)

- A/C Relearn (Air Conditioning)
- Clutch Adaption
- Power Balance
- Crank Sensor Relearn

Note: Access these services via "Diagnose > Brand > System Selection > Special Function". Availability of specific functions may vary by vehicle model and year. Consult the device's internal database or XTOOL support for compatibility.

ALL RESET SERVICES for Toyota/Lexus/Scion

» Quick menu for 21 hottest reset functions

ABS Bleeding

BMS Reset

Throttle Matching

SAS Reset

Gearbox Matching

Maintenance Light

EPB Reset

Injector Coding

A/F

TPMS Reset

Gearbox Match

Tire refit

Seat

Control Unit Reset

Airbag Repair

And More...

Image 3.3: The XTOOL IP500 interface showing icons for various reset services, including ABS Bleeding, BMS Reset, Throttle Matching, SAS Reset, EPB Reset, and Injector Coding.

3.4 Full OBD2 Functions

The IP500 includes all standard OBD2 functions for basic engine and emissions-related diagnostics, compatible with all OBD2 compliant vehicles.

- **Read DTCs:** Retrieve current, pending, and permanent diagnostic trouble codes.
- **Clear DTCs:** Erase diagnostic trouble codes and turn off the Check Engine Light (MIL).

- **Live Data:** View real-time operational parameters of the vehicle.
- **Freeze Frame:** Capture a snapshot of vehicle conditions at the moment a fault code was set.
- **I/M Readiness:** Check the status of emission-related monitors.
- **O2 Sensor Test:** Retrieve O2 sensor monitoring test results.
- **On-Board Monitor Test:** Access results of on-board diagnostic monitoring tests for specific components/systems.
- **Component Test:** Initiate a leak test for the EVAP system.
- **Vehicle Information:** Retrieve vehicle identification number (VIN), calibration ID (CALID), and calibration verification number (CVN).



Image 3.4: The XTOOL IP500 showing its full OBD2 functions, including Vehicle Info, Read Codes, Clear Codes, Live Data, Freeze Frame, and O2 Monitor Test.

3.5 Multi-in-One Live Data Graph

The device can display multiple live data streams simultaneously in a graphical format, allowing for easy comparison and analysis of vehicle performance parameters. This helps in identifying intermittent issues and understanding system interactions.

1. From the "Live Data" menu, select the parameters you wish to monitor.
2. Choose the "Graph" display option to view selected data streams graphically.
3. Analyze the trends and correlations between different parameters to diagnose issues.



Image 3.5: The XTOOL IP500 screen displaying a multi-in-one live data graph, showing real-time sensor readings and their trends over time for diagnostic analysis.

4. MAINTENANCE

4.1 Software Updates

The XTOOL IP500 offers lifetime free software updates via Wi-Fi. Regularly updating the device ensures access to the latest vehicle models, diagnostic functions, and performance enhancements.

1. Ensure the device is connected to a stable Wi-Fi network.
2. From the main menu, tap on "Updates".
3. Select the available updates for system software and vehicle brands.
4. Follow the on-screen instructions to download and install the updates. Do not power off the device during the

update process.

4.2 Device Care

- Keep the device clean and free from dust and moisture.
- Store the device in a cool, dry place when not in use.
- Avoid dropping the device or subjecting it to strong impacts.
- Use only the provided cables or XTOOL-approved accessories.

5. TROUBLESHOOTING

- **Device Not Powering On:** Ensure the battery is charged. Connect the device to the vehicle's OBD2 port; the vehicle's power should activate the scanner.
- **No Communication with Vehicle:**
 - Verify the OBD2 cable is securely connected to both the scanner and the vehicle's port.
 - Ensure the vehicle's ignition is in the ON position (engine off).
 - Check if the vehicle is OBD2 compliant (most vehicles from 1996 onwards in the US).
 - Try connecting to a different OBD2 compliant vehicle to rule out a scanner issue.
- **Update Failure:** Ensure a stable and strong Wi-Fi connection. Restart the device and attempt the update again. If issues persist, contact XTOOL technical support.
- **Specific Function Not Working:** Some special functions are vehicle-specific. Verify compatibility for your exact vehicle model and year. Contact XTOOL support for assistance.
- **Slow Performance:** Ensure the device has sufficient storage. Clear cache or unnecessary files if available. Perform a system update.

6. SPECIFICATIONS

Feature	Detail
Brand	XTOOL
Model	IP500 for Toyota/Lexus/Scion
Operating System	Linux
Processor	1.2GHz Dual-Core
Display	5.45-inch Touchscreen, 1440 * 720 Resolution
Internal Memory	32GB (supports up to 128GB external memory, not included)
Battery	3150mAh Lithium Ion (included)
Connectivity	Type-C (for charging), Wi-Fi
Item Weight	1.76 pounds

Package Dimensions	9.69 x 6.14 x 3.43 inches
Supported Languages	English, French, Portuguese, Russian, Japanese, Korean, Italian, Arabic, Spanish, Polish, German, Finnish, Turkish, Vietnamese, Traditional Chinese

7. WHAT'S IN THE BOX

- 1x XTOOL IP500 for Toyota OBD2 Scanner
- 1x USB to Type-C Main Cable
- 1x VGA to OBD2-16 Main Cable
- 1x Quick Guide
- 1x Package Listing

8. COMPATIBILITY

The XTOOL IP500 scanner is specifically designed to support 99% of models for Toyota, Lexus, and Scion vehicles. For specific model compatibility, it is recommended to consult XTOOL technical support with your vehicle's model, year, and desired features.

SPECIALLY DESIGNED for Toyota/Lexus/Scion

» 99% models of Toyota/Lexus/Scion are supported



For Toyota



For Lexus



For Scion






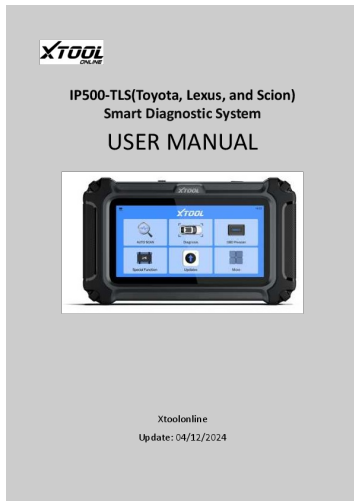
Image 8.1: Illustration showing three cars, representing the supported brands: Toyota, Lexus, and Scion, indicating broad compatibility for the XTOOL IP500.

9. WARRANTY AND SUPPORT

XTOOL provides lifetime free software updates for the IP500 scanner. For technical assistance, compatibility inquiries, or troubleshooting, please contact XTOOL technical support. You can reach them via email at xtoolinplusus@outlook.com.

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<p>Connect to XTOOL and XTOOL Pro for ADAS & ABS Pro</p> <p>1. How to use the device?</p> <p>Step 1: Download the "Education ADAS" or "ADP" files for the device or "XTOOL Pro" for Android, and follow the steps to turn on the location permission and Bluetooth permission (required for XTOOL Pro).</p> <p>Note: Enable permission: Go to Settings > Privacy & Security > Bluetooth Location > Check with Location (YES).</p> <p>Step 2: Enter your email account and a 4-digit password.</p> <p>Note: Please make sure that the email address is correct (no space or incorrect letters including letter case).</p> <p>Step 3: Scan the QR code with the QR code scanner.</p> <p>Step 4: Plug XTOOL into your vehicle's OBD port and put the XTOOL into your vehicle.</p> <p>Note: Please make sure that the ignition switch is in "ON" position.</p> <p>Step 5: Start the vehicle to support the diagnosis.</p> <p>2. XTOOL Pro and code when using the program?</p> <p>Please refer to the ADP for more details.</p> <p>3. Bluetooth connection issue</p> <p>Please check the following items to locate the reason.</p>	<p>XTOOL AD20 Pro OBD2 Scanner Common Issues and Answers</p> <p>A comprehensive guide addressing common issues and providing answers for the XTOOL AD20 and AD20 Pro OBD2 car diagnostic tools. Covers setup, connectivity, troubleshooting, and feature explanations.</p>
<p>XTOOL</p> <p>D7 Smart Diagnosis System User Manual</p> 	<p>XTOOL D7 Smart Diagnosis System User Manual: Comprehensive Guide to Automotive Diagnostics</p> <p>User manual for the XTOOL D7 Smart Diagnosis System, an advanced Android-based OBD2 scanner. Covers setup, operation, system diagnostics, and special reset functions for professional and DIY automotive repair.</p>
<p>XTOOL</p> <p>USER MANUAL Anyscan Wireless Scan Tool</p>  <p>This user manual is applicable to XTOOL A30/A30D/A30M.</p> <p>Shenzhen XTOOL Intelligent Co., Ltd.</p>	<p>XTOOL Anyscan Wireless Scan Tool User Manual</p> <p>Comprehensive user manual for the XTOOL Anyscan Wireless Scan Tool (models A30, A30D, A30M). Learn about setup, operation, diagnosis, special functions, and troubleshooting for this automotive diagnostic device.</p>
<p>XTOOL</p> <p>User Manual D7 Smart Diagnostic System</p> <p>Shenzhen XTOOL Intelligent Co., Ltd.</p>	<p>XTOOL D7 Smart Diagnostic System User Manual - Automotive Repair</p> <p>Explore the XTOOL D7 Smart Diagnostic System with this comprehensive user manual. Learn about its advanced features for full system diagnostics, OBD-II functions, and specialized maintenance resets like ABS, EPB, Oil, TPMS, and more. Includes setup, operation, and troubleshooting guides.</p>
<p>XTOOL</p> <p>D7 Smart Diagnosis System User Manual</p> 	<p>XTOOL D7 Smart Diagnosis System User Manual: Features and Operation Guide</p> <p>Comprehensive user manual for the XTOOL D7 Smart Diagnosis System. Learn about its advanced vehicle diagnostic capabilities, extensive special functions for maintenance and resets, and how to effectively use the device for automotive repair.</p>
<p>XTOOL</p> <p>User Manual</p>	<p>XTOOL D7 Smart Diagnostic System User Manual</p> <p>This user manual provides detailed instructions and information for the XTOOL D7 Smart Diagnostic System, a professional automotive diagnostic tool supporting full system diagnostics, maintenance resets, and advanced functions for various vehicle models.</p>



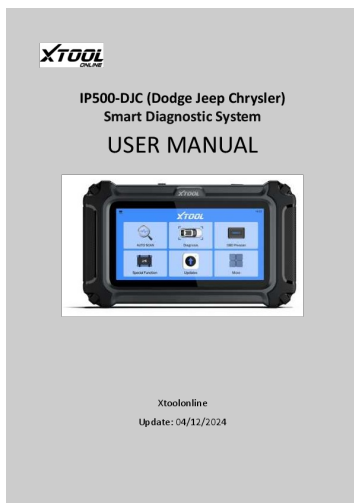
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IP500-TLS Toyota, Lexus, and Scion Smart Diagnostic System USER MANUAL

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IP500-BCC Buick, Chevrolet, Cadillac,GMC Smart Diagnostic System USER

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IP500-BMRB(BMW, MINI, Rolls-Royce)
Smart Diagnostic System
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IP500-BMRB BMW, MINI, Rolls-Royce Smart Diagnostic System USER MANUAL
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