

## XTOOL XTOOL D7W

# XTOOL D7W Wireless OBD2 Scanner Diagnostic Tool

## USER MANUAL

### Introduction

The XTOOL D7W is an advanced wireless OBD2 diagnostic scanner designed for comprehensive vehicle system analysis. This tool provides extensive diagnostic capabilities, including bidirectional control, ECU coding, and over 39 special reset functions. It supports a wide range of vehicle brands and incorporates modern communication protocols like CAN FD and DoIP, offering efficient and precise vehicle maintenance and repair solutions.



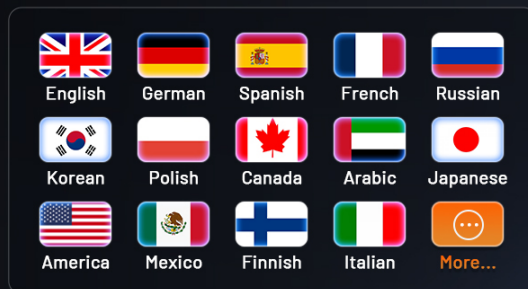
Image: XTOOL D7W diagnostic tablet and wireless VCI module.

## Package Contents

Verify that all items are present in the package:

- D7W Tablet (Main diagnostic unit)
- VCI Box (Vehicle Communication Interface)
- USB Cable (Type-C)
- Tablet Charger
- US Adapter
- EU Adapter
- EN Adapter
- Carry Case

## 23 Languages feature Allows the Global Usage of the Scanner without Language Barriers!



**\*Note:** The default language is English. Please provide the S/N if you need to change English to Spanish or other languages.



Image: Visual representation of the XTOOL D7W package contents, including the tablet, VCI box, cables, adapters, and carrying case.

## Setup

1. **Charge the Tablet:** Connect the D7W tablet to the power adapter using the provided USB Type-C cable. Ensure the tablet is fully charged before first use.
2. **Power On:** Press and hold the power button on the tablet to turn it on.
3. **Connect VCI Box:** Plug the VCI box into the vehicle's OBD2 port. The OBD2 port is typically located under the dashboard on the driver's side.
4. **Establish Wireless Connection:** The D7W tablet features built-in Wi-Fi for direct communication with the VCI box. No external Wi-Fi router is required for this connection. The tablet will automatically attempt to connect to the VCI box.
5. **Initial Software Setup:** Follow the on-screen prompts to complete the initial software setup, including language selection and Wi-Fi network configuration for internet access (for updates).

# Free from Entangled Wires, **20X Faster** Data Transmission! (Save 500 bucks)

WiFi scan tool is top choice for professionals/DIY Enthusiasts who require high-speed data transfer and work on a variety of vehicles

**Note:** No WI-FI router needed. D7W is built-in WI-FI! Directly Connected via VCI.

■ Data Transmission:	👍 Faster: 64 Mbps Speed(Max)	✗ 3 Mbps Speed(Max)
■ Distance:	👍 Further: 33-66 ft	✗ 33ft(Max)
■ Connectivity Interference:	👍 Stable	✗ Susceptible to wireless

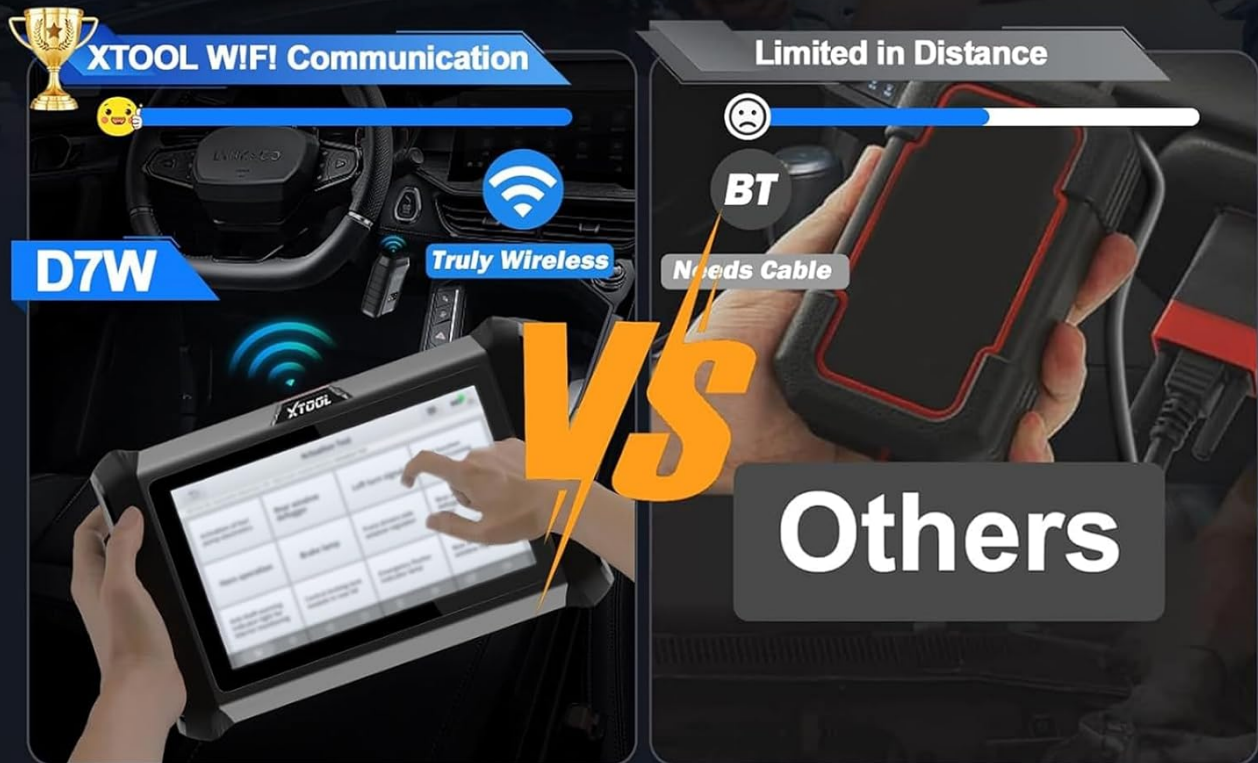


Image: Diagram illustrating the wireless connection between the XTOOL D7W tablet and the VCI box, highlighting the freedom from tangled wires.

## Operating Instructions

### 1. Full System Diagnostics

The D7W performs comprehensive diagnostics across all available vehicle systems, including Engine, ABS, SRS, Transmission, BCM, and more. This function allows you to:

- Read and Clear Diagnostic Trouble Codes (DTCs)
- View Live Data (up to 8 PIDs simultaneously)
- Retrieve Freeze Frame Data
- Access ECU Information
- Perform Auto VIN scanning for automatic vehicle identification



## Advanced Special Functions

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> SWS Calibration             | <input type="checkbox"/> Transmission Adaptive Value Reset      | <input type="checkbox"/> HVAC Actuators Learn        |
| <input type="checkbox"/> Alcohol Content Reset       | <input type="checkbox"/> Injector Injection Quantity Adjustment | <input type="checkbox"/> H02S Heater Learn           |
| <input type="checkbox"/> ABS Initialization          | <input type="checkbox"/> Fuel Pump Duty Learning                | <input type="checkbox"/> Battery Sensor Module Learn |
| <input type="checkbox"/> Yaw Rate Sensor Calibration | <input type="checkbox"/> ATF Oil Fluid Reset                    | <input type="checkbox"/> Gear Position Sensor Learn  |
| <input type="checkbox"/> Fuel Trim Reset             | <input type="checkbox"/> Clear AT learning Value                | <input type="checkbox"/> Power Steering Sensor Learn |
| <input type="checkbox"/> Crankshaft Sensors Relearn  | <input type="checkbox"/> VGT Turbo Actuator Activation          | <input type="checkbox"/> HVAC Actuator Relearn       |
| <input type="checkbox"/> Cam Crank Relearn           | <input type="checkbox"/> Service Bay Test                       | <input type="checkbox"/> OPDS Initialization         |
| <input type="checkbox"/> Idle Learn Reset            | <input type="checkbox"/> A/C Clutch Relay                       | <input type="checkbox"/> VIN Write                   |

**Get Advanced Special Functions** >>> 1. Diagnosis >> 2. Area >> 3. Vehicle Brand >> 4. System >> 5. Special Services



Image: Screenshot of the XTOOL D7W performing full system diagnostics, showing various diagnostic functions.

## 2. Bidirectional Control (Active Tests)

This function allows the diagnostic tool to send commands to vehicle components to test their functionality, aiding in faster fault isolation. Examples include:

- Injector Buzz Test
- ABS Pump Control
- Cooling Fan Activation
- Fuel Pump On/Off
- Window/Door Lock Tests

## Vehicle Compatibility in Functions

**Note:** NOT ALL VEHICLES AMONG THE MENTIONED BRANDS CAN BE SUPPORTED, PLEASE CHECK BEFORE PURCHASE VIA xtool direct out look c o m!

### Oil Reset/SAS Reset/Throttle Relearn:

- |             |                |             |                |             |               |              |             |
|-------------|----------------|-------------|----------------|-------------|---------------|--------------|-------------|
| • for FORD  | • for BENZ     | • for DODGE | • for HONDA    | • for JEEP  | • for LINCOLN | • for NISSAN | • for VW    |
| • for ACURA | • for BMW      | • for GM    | • for HYUNDAI  | • for KIA   | • for MAZDA   | • for SKODA  | • for VOLVO |
| • for AUDI  | • for CHRYSLER | • for FIAT  | • for INFINITI | • for LEXUS | • for MINI    | • for TOYOTA | • More...   |

### EPB Reset/BMS Reset:

- |             |                |                |              |
|-------------|----------------|----------------|--------------|
| • for FORD  | • for CHRYSLER | • for INFINITI | • for SKODA  |
| • for ACURA | • for DODGE    | • for JEEP     | • for TOYOTA |
| • for AUDI  | • for GM       | • for KIA      | • for VW     |
| • for BENZ  | • for HONDA    | • for LEXUS    | • for VOLVO  |
| • for BMW   | • for HYUNDAI  | • for LINCOLN  | • More...    |

### Gearbox Match/D\*P\*F Reset/Injector Coding:

- |             |                |                |              |
|-------------|----------------|----------------|--------------|
| • for FORD  | • for CHRYSLER | • for INFINITI | • for MINI   |
| • for ACURA | • for DODGE    | • for JEEP     | • for NISSAN |
| • for AUDI  | • for GM       | • for LEXUS    | • for SKODA  |
| • for BENZ  | • for FIAT     | • for LINCOLN  | • for TOYOTA |
| • for BMW   | • for HONDA    | • for MAZDA    | • More...    |

### Fuel Pump Test:

- for TOYOTA
- for HONDA
- for FORD
- More...

### Fuel Trim Reset:

- for INFINITI
- for FORD
- for GM
- More...

### ABS Initialization:

- for JEEP
- for FORD
- for INFINITI
- More...

### Yaw Rate Sensor Calibration:

- for TOYOTA
- for HONDA
- for INFINITI
- More...

### Cam Crank Relearn/Crank Position Sensor Relearn:

- for JEEP
- for HONDA
- for ACURA
- More...

### Transmission Adaptive Value Reset:

- for FORD
- for VOLVO
- for JEEP
- More...



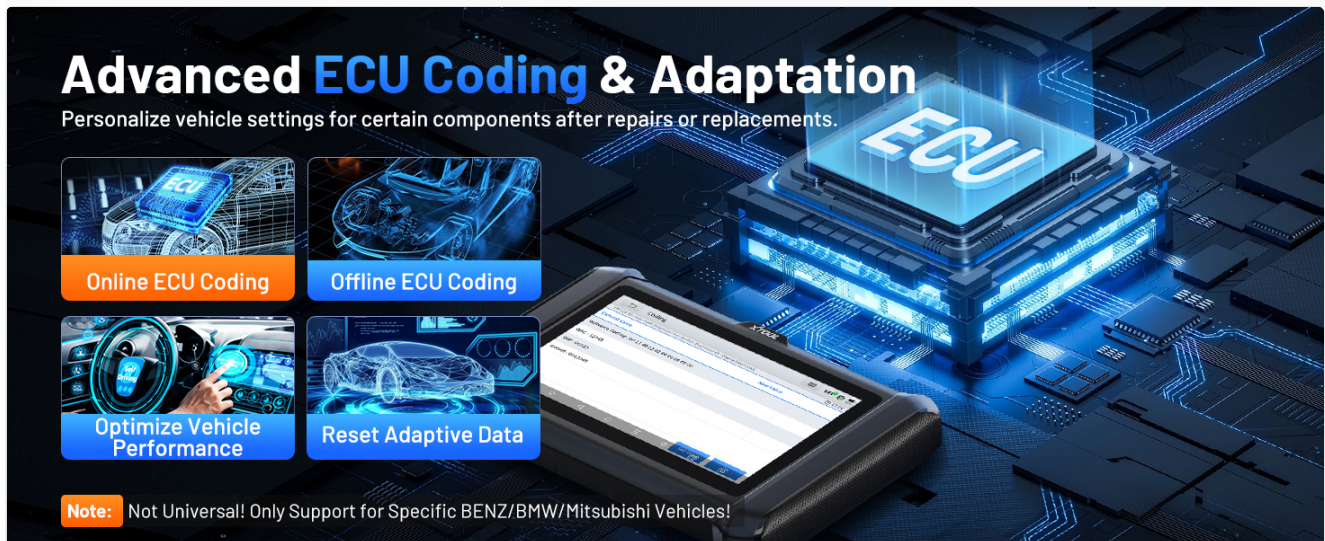
Image: Examples of bidirectional control (active tests) such as injector buzz test, ABS pump control, and sound horn test.

## 3. Special Functions (39+ Resets)

The D7W offers a wide array of maintenance and reset services, including but not limited to:

- Oil Reset
- EPB (Electronic Parking Brake) Reset
- TPMS (Tire Pressure Monitoring System) Reset
- BMS (Battery Management System) Reset

- SAS (Steering Angle Sensor) Calibration
- ABS Bleeding
- Injector Coding
- Throttle Relearn



*Image: Overview of the 39+ maintenance services available on the XTOOL D7W, including various reset and calibration functions.*

#### 4. Advanced ECU Coding & PMI Programming

This feature allows for personalization of vehicle settings and recoding adaptive data for certain components after repairs or replacements. PMI (Programmable Module Installation) programming enables programming data from an original module to a new unit for module replacement, particularly for Ford, Lincoln, and Mazda vehicles. **Note:** ECU Coding is not universally supported for all vehicles; it is specific to certain brands like VW, Audi, Skoda, Benz, and Mitsubishi.



*Image: Visual explanation of advanced ECU coding and adaptation, showing how it optimizes vehicle performance and resets adaptive data.*



# Cost-effective D7W the Winner!

XTOOL D7W		Others-No.1	Others-No.2	Others-No.3
✓	Full System&Bidirectional	✓	✓	✓
WIFI=BT V2.0	Wireless Connection WIFI!	BT	BT	BT
39+ 🏆	Special Functions	28+	28+	31+
8 PIDS-IN-1 🏆	Live Data Graphing	4 PIDS-IN-1	4 PIDS-IN-1	4 PIDS-IN-1
✓ 🏆	ECU Coding	✗	✗	✓
✓ 🏆	PMI	✗	✗	✓
✓ 🏆	CAN FD & DoIP Protocol	✗	✗	✓
✓ 🏆	Built-in Camera	✗	✗	✓
✓ 🏆	Work with Inspection Camera	✓	✗	✓
3 Years(Worth \$300) 🏆	Free Update	1 Years	2 Years	2 Years
\$419	Net Product Price	\$519	\$509	\$505

Image: Illustration of PMI and offline ECU programming for Ford, Lincoln, and Mazda vehicles, demonstrating module replacement procedures.

## Maintenance

- **Software Updates:** Regularly check for and install software updates via Wi-Fi to ensure compatibility with the latest vehicle models and diagnostic functions. The device includes 3 years of free updates.
- **Battery Care:** To prolong battery life, avoid fully discharging the tablet frequently. Store the device in a cool, dry place when not in use.
- **Cleaning:** Use a soft, damp cloth to clean the tablet screen and body. Avoid abrasive cleaners or solvents.
- **Storage:** Store the device and its accessories in the provided carry case to protect them from damage.

## Troubleshooting

- **Device Not Powering On:** Ensure the tablet is sufficiently charged. Connect it to the charger and wait a few minutes before attempting to power on again.
- **VCI Not Connecting:** Verify the VCI box is securely plugged into the vehicle's OBD2 port. Check the vehicle's ignition status. Ensure the tablet's Wi-Fi is enabled and attempting to connect to the VCI.
- **Diagnostic Function Not Working:** Confirm that the vehicle model and year are correctly selected. Ensure the software is up to date. Some functions may not be supported on all vehicle makes/models. Refer to the vehicle compatibility list or contact support.
- **Slow Performance:** Close any unnecessary applications running in the background. Ensure sufficient storage space is available.

## Specifications

Feature	Specification
Model	XTOOL D7W
Operating System	Android 10.0



Feature	Specification
Display	7-inch Touchscreen
Memory	2GB RAM + 64GB Storage
Battery	5000mAh (7.3V) Lithium Polymer
Connection Method	Built-in Wi-Fi (Wireless VCI)
Supported Protocols	CAN FD, DoIP, FCA (with active subscription)
Dimensions	12.6 x 11.25 x 4.1 inches
Item Weight	5.06 pounds
Languages	23 languages supported

	 <b>D7W</b>	<b>D7S</b>	<b>D7BT</b>	<b>D7</b>
<b>Full System Diagnostic</b>	✓	✓	✓	✓
<b>Connection Method</b> 🙌	<b>Built-in WIF! Cinnnection</b>	Wired Connection	BT Connection	Wired Connection
<b>Diagnosis Distance</b> 🙌	<b>33-66ft</b>	<33ft	33ft(Max)	<33ft
<b>CAN FD &amp; DoIP</b> 🙌	<b>CAN FD &amp; DoIP</b>	CAN FD & DoIP	CAN FD only	CAN FD only
<b>Memory</b> 🙌	<b>2+64GB</b>	2+64GB	2+32GB	2+32GB
<b>Battery</b> 🙌	<b>5000mAh Battery (=2500mAh,7.3v)</b>	5000mAh Battery (=2500mAh,7.3v)	4000mAh	4000mAh
<b>Built-in Camera &amp; Kickstand</b> 🙌	✓	✓	✗	✗
<b>Work with XV100 Inspection</b> 🙌	✓	✓	✗	✗
<b>36+ Special Functions</b>	✓	✓	✓	✓
<b>Bi-directional Control</b>	✓	✓	✓	✓
<b>ECU Coding for VW/AUDI/ SKODA/BENZ/Mitsubishi</b>	✓	✓	✓	✓
<b>3 Years Free Update</b>	✓	✓	✓	✓

Image: Comparison table highlighting the enhanced features of the XTOOL D7W compared to previous models like D7, D7S, and D7BT.



# Warranty and Support

The XTOOL D7W comes with a **2-year warranty**. Additionally, it includes **3 years of free software updates** from the date of purchase, ensuring your tool remains current with the latest vehicle data and functionalities.

For technical assistance, troubleshooting, or any inquiries, please contact XTOOL customer support:

- **Email:** [xtooldirect@outlook.com](mailto:xtooldirect@outlook.com)
- 24/7 Technical Assistance is available.

## High-end Hardware



D7W Tablet



VCI Box



Carrying Case



Type-C Charger Cable



Type C to A Adapter  
(Connect to PC)



Self-Test Cable  
(Check VCI Status)



US, UK and EU Adapters



Android 10.0



7-inch Screen



Wireless Connection



2500mAh Battery(7.3V)



Super Fast Charging



2+64GB Storage



Built-in Camera



Adjustable Kickstand






Image: Information regarding XTOOL's professional services, including 24/7 tech assistance, 2-year warranty, and 3 years of free updates.

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## Related Documents - XTOOL D7W

<div><p>D7 DIAGNOSTIC TOOL USER MANUAL</p><p>Version 1.0 Revision: 2024.06.01</p></div>	<p><a href="#">XTOOL D7 Diagnostic Tool User Manual</a></p> <p>Comprehensive user manual for the XTOOL D7 Diagnostic Tool, covering its features, operation, safety guidelines, and troubleshooting. Learn how to perform various diagnostic functions, special services, and system resets for a wide range of vehicles.</p>
<div><p>Table of Contents</p><ul style="list-style-type: none"><li>Safety Precautions.....2</li><li>About VAG401.....4</li><li>1. Application.....4</li><li>2. Available Functions.....4</li><li>3. Supported Systems.....4</li><li>4. Professional Functions.....4</li><li>5. Main Features.....5</li><li>6. Appearance and Key Descriptions.....5</li><li>7. Operation Instructions.....6</li><li>8. Preparation for Testing.....7</li><li>9. Connect the VAG401.....7</li><li>10. Diagnostic system.....8</li><li>11. 3.1 READ ECU version.....10</li><li>12. 3.2 Read Fault codes.....10</li><li>13. 3.3 ECU/ECU Fault.....11</li><li>14. 3.4 Read real-time data value.....11</li><li>15. 3.5 ECU reset.....12</li><li>16. 3.6 Basic data setting.....13</li><li>17. 3.7 Module adaptation.....13</li><li>18. 3.8 Coding.....13</li><li>19. 3.9 Update the system.....14</li><li>20. 3.10 Advanced ID.....15</li><li>21. 3.11 System battery reset.....16</li><li>22. 3.12 Professional function.....16</li><li>23. 4. Language select.....18</li><li>24. Control value adaptation.....18</li><li>25. 6. List menu.....19</li><li>26. 7. Help setting.....19</li><li>27. 8. About.....20</li><li>28. 9. Location of Data Linking Connection.....21</li></ul></div>	<p><a href="#">Xtool VAG401 User Manual: Comprehensive Guide for VW, Audi, Seat, Skoda Diagnostics</a></p> <p>Comprehensive user manual for the Xtool VAG401 diagnostic tool, covering safety precautions, operation instructions, system diagnosis, and professional functions for VW, Audi, Seat, and Skoda vehicles. Get detailed instructions for this automotive diagnostic tool.</p>

<p><b>XTOOL</b></p> <p><b>User Manual</b> D7W Smart Diagnostic System</p> <p>Version 1.0 Release Date: 2017/10 XTOOL Auto Technology Co., Ltd.</p>	<p><a href="#">XTOOL D7W Smart Diagnostic System User Manual</a></p> <p>Comprehensive user manual for the XTOOL D7W Smart Diagnostic System, detailing its features, operation, diagnostic functions, special maintenance functions, reporting, updates, warranty, and remote assistance.</p>
 <p>The image shows the XTOOL HDGURU diagnostic tool, a compact device with a 5.45-inch display, connected to a vehicle's OBD2 port. The device is black with a blue screen showing various diagnostic data. A red circular badge on the top right of the device says 'Support Cummins ECU programming'.</p>	<p><a href="#">XTOOL HDGURU: Heavy Duty Vehicle Diagnostic Tool for Cummins &amp; OBD2</a></p> <p>Discover the XTOOL HDGURU, a compact and powerful entry-level heavy-duty vehicle diagnostic tool. Ideal for small fleets, it offers comprehensive Cummins ECU diagnostics, HD OBD2 generic functions, bi-directional tests, and advanced programming. Features a 5.45-inch display, Linux system, and extensive maintenance functions.</p>
<p><b>XTOOL</b></p> <p><b>D7 Smart Diagnosis System</b> <b>User Manual</b></p>  <p>The image shows the XTOOL D7 Smart Diagnosis System, a handheld diagnostic device with a red and black casing and a large color screen displaying various diagnostic menus.</p>	<p><a href="#">XTOOL D7 Smart Diagnosis System User Manual: Comprehensive Guide to Automotive Diagnostics</a></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><b>XTOOL</b></p> <p><b>D6S Smart Diagnostic System</b> <b>USER MANUAL</b></p>  <p>The image shows the XTOOL D6S Smart Diagnostic System, a handheld diagnostic device with a black casing and a color screen displaying diagnostic data.</p> <p>Version 1.0 Update: 10/12/2014</p>	<p><a href="#">XTOOL D6S Smart Diagnostic System User Manual</a></p> <p>Comprehensive user manual for the XTOOL D6S Smart Diagnostic System, detailing its features, operation, maintenance services, special functions, and safety guidelines for automotive professionals and DIY enthusiasts.</p>