

X100PAD3 Auto Key Programmer

User Manual

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1. This manual is designed for the usage of X100PAD3, applying to X100PAD3 smart automotive diagnosis platform.

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Xtool X100PAD3 User Manual Instructions

Please read this user manual carefully before using the scanner.

When reading the manual, please pay special attention to the words "Note", "Caution" or "Warning", read them carefully for appropriate operation.

Xtool X100PAD3 Diagnosis System Main Unit Maintenance

Avoid shaking or dismantling the unit as it may damage the internal components.

Do not use hard or sharp objects to touch the LCD screen; do not use excessive force; do not expose the screen to strong sunlight for a long period.

Caution: keep it away from water, moisture, high temperature or very low temperature.

If necessary, calibrate the screen before testing to ensure the accuracy of LCD performance.

Keep the main unit away from strong magnetic fields.

Operation Instructions

For safe operation please follow the instructions below:

Keep the scanner away from heat or fumes when using it.

If the vehicle battery contains acid, please keep your hands and skin or fire sources away from the battery during testing.

Exhaust gas of vehicle contains harmful chemicals, please ensure adequate ventilation.

Do not touch the cooling system components or exhaust manifolds when engine is running due to the high temperatures reached.

Make sure the car is securely parked, Neutral is selected or the selector is at P or N position to prevent the vehicle from moving when engine starts.

Make sure the (DLC) diagnostic link connector is functioning properly before starting the test to avoid damage to the Diagnostic Computer.

Do not switch off the power or unplug the connectors during testing, otherwise you may damage the ECU and/or the Diagnostic Computer.

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CHAPTER I About X100PAD3

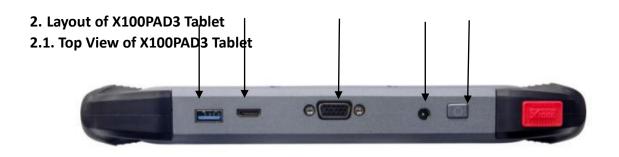
1. Appearance

1.1. Front View



1.2. Back View





1 2 3 4 5

①USB3.0 interface: Wired data transmission

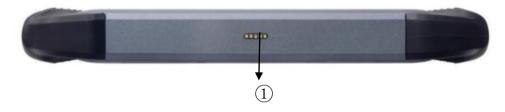
2 Mini HDMI interface: Transmission of audio and video

③DB15 interface: Subsequent extended reservation port

(4)DC charging port: Charge for equipment, use 12V power supply

⁽⁵⁾Power Button: Power on or power off

2.2. Side View of X100PAD3 Tablet



①Seat adapter: This is reserved for the socket, and can be charged with charging.

3. X100PAD3 Technical Parameters

Operating system: Android

Processor: quad core processor 1.8GHz

Memory: 2G RAM, 64G ROM

Display / touch screen: 1024 • 768 resolution, 8 inch LED Compatible touch screen

Camera: rear camera, 8 million pixels, with flash autofocus.

Sensor: gravity sensor

Audio input / output: microphone, 4 band 3.5 millimeter stereo.

Interface: USB3.0, DC charging port, MINI HDMI, DB15 interface.

Battery: 10000mAh 3.7V lithium polymer battery

Input voltage: +9~+36VDC, compatible with 12V and 24V voltage system.

Working temperature: -20 to 50 C (-4 to 126 C)

Relative humidity: <90%

Appearance size: 275 • 183 • 33.9 (mm)

CHAPTER **II** How to Use the X100PAD3

1. X100PAD3 Activation

1.1. Please activate X100PAD3 before you use it to test vehicles. And please connect WiFi first.

										\$ 💎 🗏 09:18
	active									
Company	Please	enter com	pany name	2.5						
mailbox *Select one of the										
					ок					
	0.	¢	\bigtriangledown		0	D)	T	G	lacksquare	

1.2. Input Company name and mailbox, the diagnostic application will start after activation.

2. X100PAD3 Main Interface and Functional Buttons Descriptions

2.1. Main Interface

Tap on X100PAD3 application icon, the main interface and sub-menus will be shown as below.

Χτοσι						
x100PAD3-00001	X)	Ģ			
Ð	Se	ttings	XCloud			
Diagnosis	Update	Report	Remote			
¢ 🔟	⊲ □ 0	0) E (⊙			

Settings

<

P	Language	Eng	lish	Language
92980 209 80 9 9980 8888 8	Unit	Me	etric	English
人	My Workshop Info			Deutsch
•		App: V3	5.6	فارسی
0	About	SN: X100PAD3-00		عربي
				Bahasa
				简体中文
				ελληνικά
				Norsk (bokmål)
	©` \$	< □	0	↓ ■ ■ ●

Functional Buttons	Functional Descriptions		
Diagnosis	【Diagnosis】 Read vehicle diagnosis information		
Report	【Diagnose report】 Read vehicle report		
Settings-	【Setting】 Language, unit, Bluetooth		
XCloud	【Xtool cloud】Online chatting		
Update	【One-click upgrade】 Upgrade software		
Remote	【Remote control】 Xtooltech support center and function keys		

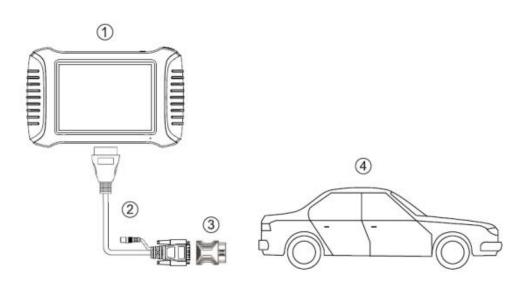
Functional Buttons	Descriptions
\bigtriangledown	【Return to the previous interface】
Ĉ	[Decrease the volume]
	[Increase the volume]
0	【Return to the main interface of Android】
	Show recently used programs
1.0	[Screenshot]
-	【Back to the diagnosis model interface】
	【Click to record the data, click again to send your feedback to XTOOL service center.】

3. Vehicle Connection Diagnosis

3.1. Vehicle Connection Test

- a. Turn on X100PAD3 tablet
- b. Connect cables and X100PAD3 in following order: $(1) \rightarrow (2) \rightarrow (3) \rightarrow (4)$
- c. Switch on the ignition and tap on X100PAD3 application to test vehicles. (Shown as

follows)



- 1 X100PAD3 Tablet
- 2 Main cable
- ③ OBDII-16 Adapter (Select other adapters if needed)
- (4) Measured vehicle

3.2. Precautions before Use

3.2.1. The vehicle power supply has to meet the normal voltage limits DC 9-15V

3.2.2. Users should check the position of the DLC port and ensure the OBDII 16pin connector and the DLC port are correctly aligned before attempting to connect.

3.2.3. When taking some special functions tests, users are required to operate the device according to operating instructions. For vehicle, it has to strictly meet the requirements, for example, the conditions that some vehicle models need to be reached are as follows: engine temperature 80°C/105°C, turn off the loads (such as headlights, air-conditioner, etc.), put accelerator pedal in released position, etc.

3.2.4. If users can not find the tested vehicle model or electronic control system in the X100PAD3 test menu, they may need to update the software or consult Xtool technical service department.

3.2.5. Please ensure that only official XTOOL cables and connectors are used to prevent damage to the unit.

3.2.6. Before powering off the unit, please ensure that you cancel or complete the current task or function and return to the main interface, then power off.

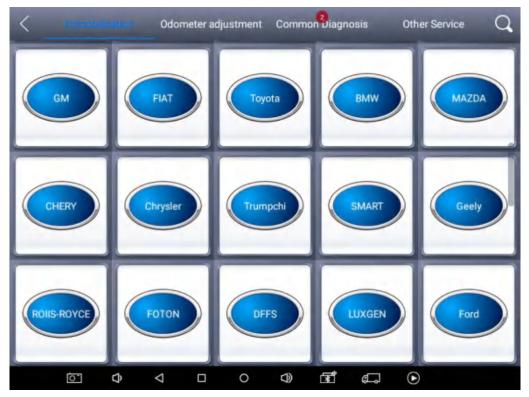
3.2.7. Do not use excessive force to operate the touch screen.

3.2.8. During long period of non-use, please disconnect the power and turn off the X100PAD3 unit.

4.Special function and Diagnosis

4.1. Menu Options

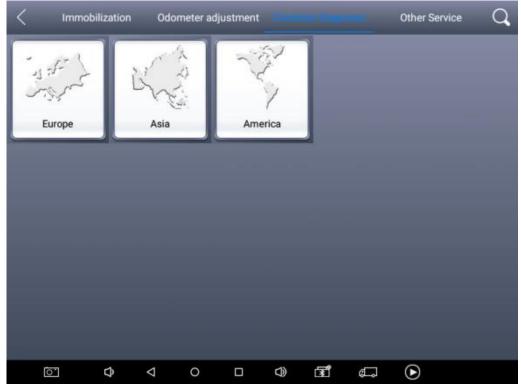
4.1.1. After the X100PAD3 mainframe is connected to the vehicle via main test cable, Immobilization can be performed. The Immobilization interface is shown as below:



4.1.2. X100PAD3 lists mileage adjustment separately. The Dashboard Recovery interface is shown as below:



4.1.3. Users can choose the relevant menu for the vehicle being tested: selection for **Europe** will enter the European cars menu, selection for **Asia** will enter the Asian cars menu, selection for **America** will enter the American cars menu.



4.1.4. Besides the usual system diagnostic functions, XTOOL also has developed a

series of special diagnostic functions for certain vehicles as follows:



4.2. Test Functions: it can read and clear faults codes for all systems of vehicles.4.2.1. Using BMW as an example, select Common Diagnosis, then select EUROPE. Choose the BMW word. If the word is not showing on the screen, please swipe up or down to display it.

< D		BMW V10.30	
Autom	atic selection	Manual selection	Manual operation

PLEASE NOTE: Different vehicles have different menus and systems. Common main function menu includes the following options: **Read ECU:** This function is to read the ECU version information, which is the equivalent of "System Identification" or "System Information" in some electronic control systems.

This will allow you to read ECU related software and hardware versions, models and production date of diesel engine, part number, etc.

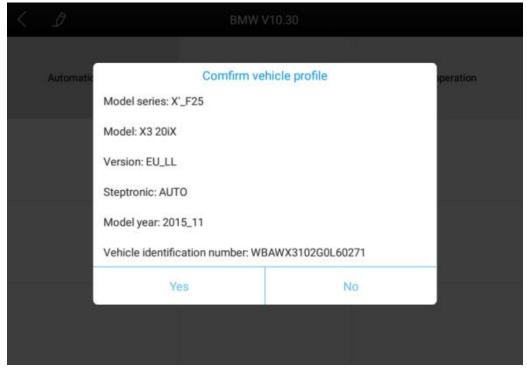
Read DTCs: read the trouble codes that are stored in the ECU.

Clear DTCs: clear current and historical trouble codes memory in ECU. The trouble codes can not be erased without eliminating the fault that the code relates to. TIP: Save or print the currently stored fault codes before clearing them to provide help in the case of an intermittent fault.

Function Buttons	Descriptions
	Return to previous interface
	Print test data
	Click to record the data, click again to send your feedback to XTOOL service center

4.2.2. Toolbar function buttons descriptions

After clicking the data record button the second time the data feedback page will appear as shown below, showing diagnostic software version, vehicle being tested, and the steps performed in the diagnostic process. Users can then enter the nature of the problem and any other relevant information and send the form to the Xtool engineering department.



This function is used to read ECU version information, which is the equivalent of "System Identification" or "System Information" in some electronic control systems. This will allow you to read ECU related software and hardware versions, models and production date of diesel engine, part number, etc. shown below:

-	Identification	
System Name:	Car Access System	
Programming date:	2018.07.13	
Date of manufacture (DD.MM.YYYY):	30.09.2015	
Supplier:	Temic	
Series number :	2152680091	
Chassis number:	WBAWX3102G0L60271	
	ОК	

4.4. Read DTCs

Select **Read Fault Codes** to read the trouble codes stored in the ECU. The screen will show the trouble codes and their definition, shown below:

<	D	s	Trouble codes		ſ
0	1331	(0)	Driver side door control module - No signal/communication		Active/static
0	1332	٩	Frt.pass. side door control module - No signal/communication		Active/static
0	1333	٩	Left rear door control module - No signal/communication		Active/static
0	1334	()	Right rear door ctrl. module - No signal/communication		Active/static
0	0466	٩	Steering column electronics control module - No signal/communication		Active/static
0	1320	(0)	Climatronic control module - No sional/communication		Active/static
				Erase D	TC Freeze frame
[<u>े</u>		ଦ ଏ ୦ ୮ ଦ ହି 🗊	\odot	

Tip: In the process of diagnosis, if the device shows "System is OK" or "No Trouble Code", it indicates that the ECU has not detected a fault in any of the circuits that it monitors. If there is a fault which is not being recorded it may be that the fault is with a part of the system not under the control of ECU, such as a mechanical system fault. It is also possible that the signal of a system sensor may be incorrect but still within the ECUs stored limits, this can be verified in Live Data.

4.5. Clear DTCs

4.5.1. Return to the previous step, select **Clear Fault Codes** to clear the current and historical trouble codes memory in ECU. Performing this function will clear all the current and historical trouble codes. Please ensure that the trouble codes have been recorded before clearing, shown below:

<	Ĵ					
	Automatic	Comfirm ve	hicle profile	peration		
		Model series: X'_F25				
		Model: X3 20iX				
		Version: EU_LL				
		Steptronic: AUTO				
		Model year: 2015_11				
		Vehicle identification number: WE				
		Yes	No			

4.5.2. Click **YES** to confirm the operation, if the communication is normal, it will show "**Trouble Codes has been Cleared Successfully**" or "**Trouble Codes Cleared**". Generally, users will need to re-read trouble codes after clearing them to confirm that the trouble codes have been cleared.

5. Settings

By selecting **Settings** users can set the language, unit and other system related options. Languages: select the language. Please tick the required option from the multi-language options on the right.

_	s	Settings	
Language	English	Language	
Unit	Metric	English	~
My Workshop Info		Deutsch	
		فارسى	
About	App: V3.5.6 SN: X100PAD3-00001	عربي	
		Bahasa	
		简体中文	
		ελληνικά	
		Norsk (bokmål)	

Units: Select unit of measurement. Users can select Metric or British Unit.



6. XCloud (English version is coming soon)

All the auto maintenance technicians who use our products can not only look up the maintenance information that we put on our cloud service platform conveniently, and combine the diagnosis result to query, and communicate with other Xtool users in our forum, but can also access various online databases of maintenance and diagnostic skills and vehicle maintenance plans.

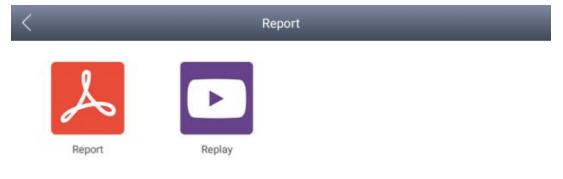
7. Update

X100PAD3 updates directly via the Internet using WiFi or wired connection. To access the update application open the X100PAD3 application and click UPDATE , shown below.

<			U	pdate		Update all
1	SERVICE LIGHT RESET-ASIA	V16.81	2018-09-26 03:04:57		0%	Update
2	SERVICE LIGHT RESET-CHINA	V18.51	2018-09-26 03:04:59		0%	Update
3	SERVICE LIGHT RESET-EUROPE	V18.21	2018-09-26 03:05:01		0%	Update
4	SERVICE LIGHT RESET-AMERICA	V16.21	2018-09-26 03:05:02			Update
5	DIAGNOSIS-NISSAN PIN DATA	V5.0	2015-04-27 19:55:11		0%	Update
6	DIAGNOSIS-OBDII	V20.91	2017-07-26 23:07:02		0%	Update
7	DIAGNOSIS-BUICK	V10.51	2018-05-12 08:46:07		0%	Update
8	DIAGNOSIS-CHEVRO LET	V10.51	2018-05-12 08:46:07		0%	Update
9	DIAGNOSIS-CADILLA C	V10.51	2018-05-12 08:46:07		0%	Update

8. Report

Report is used for viewing and printing the saved files, such as Live Data, Trouble Codes or pictures generated in the process of diagnosis, users also can view a record of which cars have been previously tested. It includes three parts: PDF Files, Pictures and Data Playback.



8.1. PDF Files:

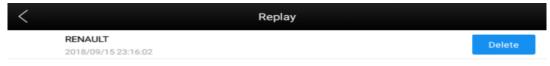
8.1.1. PDF files are the diagnostic reports of Live Data or Trouble Codes that have been saved during diagnosis. Entering **PDF** will allow you to view and print these reports.

<				Rej	port				
VW 2019/01/08 17:17:07									Delete
								~	
0	Φ	\bigtriangledown	0		d)	630	47	\odot	

8.1.2 Click PDF icon to generate PDF when you want to save the trouble code report

8.2. Data Replay:

With Data Playback you can play back recorded Data.



Pictures are all the screen capture files saved in the diagnosis process.

9. Remote

If users encounter problems and are not able to solve them, they can open this application and ask for remote assistance.

How to get remote assistance from Xtool Technical Assistance Center:

- a. Open X100PAD3
- b. Click **Remote** and open the **Team Viewer** interface. Generate and display device ID.
- c. Your partner will also need to download and install **Team Viewer.**
- d. Inform your partner of your **Team Viewer** ID and password to enable them to begin remote access of the X100PAD3.

TeamViewer Connection Extras Help Remote Control 44 N	Meeting
Allow Remote Control Your ID 153 112 104 Password 8361	Control Remote Computer Partner ID
Unattended Access Start TeamViewer with Windows Assign device to account Grant easy access 	Remote control File transfer Connect to partner
Free license (non-commercial u Ready to connect (secure connection)	ise only) - XTOOL-PC - Microsoft Computers & Contacts >> Sign In

CHAPTER^{III} How to Use KC100

KC100 works with VW/Audi/Skoda/Seat 4th and 5th immobilizer software and BMW CAS1-3 and BMW CAS4 immobilizer software. Lets take VW as an example. Since VW 4th and 5th Immo programming needs online programming, please make sure X100PAD3 connect Internet before doing programming. Please find operation steps as below:

- 1. Please use main cable and OBDII connector (or other relative connector) to connect between X100PAD3 and your car's OBD port.
- 2. Please use USB to mini USB cable to connect between X100PAD3 and KC100.



3. Please switch ignition on position, then enter software as following steps: Immobilization - VW - 4th/5th Immobilizer System



< D	VW/Audi/Skoda/Seat V27.66	
Diagnostic function	Read security code	Program keys
Program remote	ECU Synchronization	4th/5th Immobilizer system
MQB platform	MQB platform(Online)	Key programmer
© ↓ ↔		\$) E

< 1	4th/5th Immobilizer system	
4th Immobilizer system	5th Immobilizer system	
i t	~ 4 B	Ş

4. If your car is 4th immobilizer system, please click 4th immobilizer system. If your car is 5th immobilizer system, please click 5th immobilizer system. It will detect your meter type automatically, if it does not detect successfully, you can choose your meter type manually.

< 1 i	Did not identify the type of mete	r
Instrument with NEC+24C64(2013-) use TFT color display	Instrument with NEC+24C64(2013-) white screen	Instrument with 9S12XHZ51(Golf6 MM7 -2011)
Instrument with CDC+24C32	Instrument with NEC+24C32	Instrument with NEC+24C64
Instrument with NEC+95320	Instrument with NEC+C64(-2012) use TFT color display	VW Passat/CC
Instrument with NEC+95320(JohnSon/JCI)		
		\$)

5. Then follow the instructions that software reminds you to copy new keys.

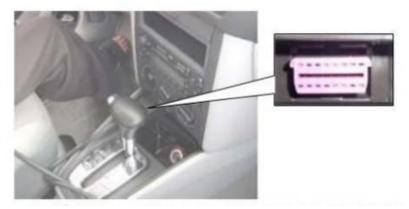
CHAPTER IV Location of Diagnostic Link Connectors on

Different Vehicle Models

1. Diagnostic Link Connectors Locations of Various Vehicle Models



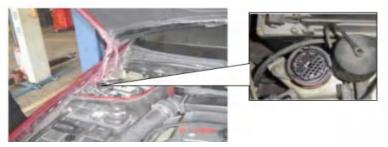
*AUDI A6: the OBD plug is on the lower left side of the dashboard, use SMART OBDII-16 connector.



*VW Bollywood 1.8: the OBD plug is below the console, use SMART OBDII-16 connector.



*Benz S320,220 Chassis: the OBD plug is below the dashboard, use SMART OBDII-16 connector.



*Benz C180: the OBD plug is on the left hand side of the engine bay, use Benz-38 connector.



*Benz 300SEL 140 chassis: the OBD plug is on the left hand side of the engine bay, use Benz-38 connector.



*GM Buick: the OBD plug is below the dashboard, use SMART OBDII-16 connector.



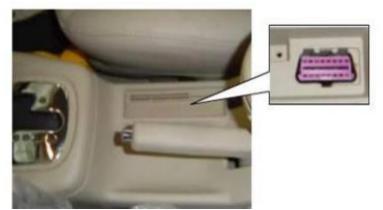
*GM Buick GL8 : the OBD plug is below the dashboard, use SMART OBDII-16 connector.



*VW POLO: the OBD plug is below the dashboard, use SMART OBDII-16 connector.



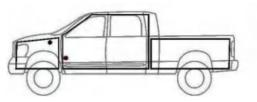
*BMW 735I: the OBD plug is in the right hands side of the engine bay, use BMW-20 connector.

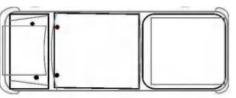


*VW Passat B5: the OBD plug is behind the gearlever and beside the parking brake lever. Lift the cover to access it. Use SMART OBDII-16 connector.

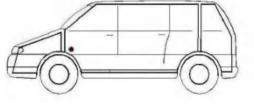
2. Location Diagram of Vehicle Diagnostic Link Connectors

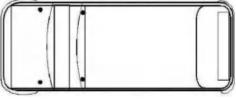
Location diagram of pick-up truck diagnostic link connectors:



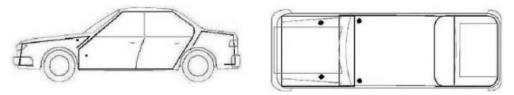


Location diagram of utility vehicles diagnostic link connectors:





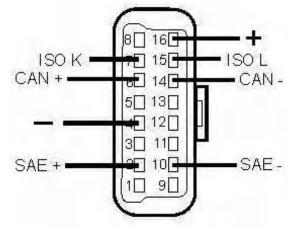
Link diagram of small car diagnostic link connectors:



NOTE: Each vehicle manufacturer may use additional pins to diagnose a variety of systems. Not every manufacturer uses the same standard. The function on a certain pin will vary from manufacturer to manufacturer. Verify with the manufacturer.

3. Diagnostic Link Connectors Terminal Definition and Communication Protocols

3.1. Standard OBDII Diagnostic Link Connector:



Pin Definition (Reference material)

Various pin definitions as follows:

- 1. Manufacturer definition
- 2. SAE J1850 bus positive
- 3. Manufacturer definition
- 4. Bodywork site
- 5. Signal site

- 6. ISO 15765-4 defined CAN high
- 7. ISO9141 and ISO14230 defined K line
- 8. Manufacturer definition
- 9. Manufacturer definition
- 10. SAE J1850 bus negative
- 11. Manufacturer definition
- 12. Manufacturer definition
- 13. ISO 15765-4 defined CAN low
- 14. ISO9141 and ISO14230 defined L line
- 15. Permanent positive voltage
- [1] 1, 3, 8, 9, 11, 12 and 13 are defined by manufacturer.

[2] 2, 6, 7, 10, 14 and 15 are used for diagnostic communication. Unused definitions can be defined by manufacturers.