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Foxwell NT520 PRO Car Fault Diagnostic Tool User Manual

Model: **NT520 PRO** | Brand: **Foxwell**





Image: The Foxwell NT520 PRO diagnostic tool, a handheld device with a color screen and a diagnostic cable.

INTRODUCTION

The Foxwell NT520 PRO is a professional-grade car fault diagnostic tool designed to help users identify and resolve issues in various vehicle systems. This device offers comprehensive diagnostic functions, including reading and clearing fault codes, viewing live data streams, and performing specialized tests and coding functions. It supports a wide range of car makes and models equipped with an OBD II - 16 pin connector.

1. SETUP

1.1 Package Contents

- Foxwell NT520 PRO Diagnostic Tool
- OBD II Diagnostic Cable
- USB Cable (for updates and data transfer)

- User Manual (this document)

1.2 Initial Device Power-Up

1. Connect the OBD II diagnostic cable to the NT520 PRO device.
2. Locate the vehicle's OBD II port, typically found under the dashboard on the driver's side.
3. Plug the diagnostic cable into the vehicle's OBD II port. The device should power on automatically. If not, ensure the vehicle's ignition is in the ON position.

1.3 Software Updates

The NT520 PRO offers free updates for one selected car brand. Additional brands (up to five) can be added via internet for a fee. Regular software updates ensure compatibility with newer vehicle models and provide access to the latest diagnostic features.

1. Connect the device to a computer using the provided USB cable.
2. Install the Foxwell update client software on your computer (refer to the official Foxwell website for download).
3. Follow the on-screen instructions in the update client to register your device and perform software updates.

2. OPERATING INSTRUCTIONS

The NT520 PRO features a color screen for easy navigation and data display.

2.1 Basic Navigation

- Use the arrow keys to navigate through menus.
- Press the 'Enter' or 'OK' button to select an option.
- Press the 'Back' or 'Exit' button to return to the previous screen.

2.2 Diagnostic Functions

The device supports diagnostics for most available control units in a vehicle, including:

- Engine Control Module (ECM)
- Transmission Control Module (TCM)
- Anti-lock Braking System (ABS)
- Airbag System
- Body Control Module (BCM)

2.2.1 Reading and Clearing Fault Codes

1. From the main menu, select 'Diagnostics' or 'Scan'.
2. Choose the vehicle make and model.
3. Select the desired control unit (e.g., Engine, ABS).
4. Select 'Read Codes' to view current and stored Diagnostic Trouble Codes (DTCs).
5. Select 'Clear Codes' to erase the detected fault codes. This will also turn off the Malfunction Indicator Lamp (MIL) if the fault is no longer present.

2.2.2 Live Data Stream

View real-time data from various sensors and components.

1. After selecting the control unit, choose 'Live Data'.
2. Select the parameters you wish to monitor.
3. The data will be displayed in numerical or graphical format.

2.2.3 ECU Information

Access information about the Electronic Control Unit.

1. After selecting the control unit, choose 'ECU Information'.
2. View details such as VIN, calibration ID, and software version.

2.2.4 Component Testing and Coding

The device can perform tests on various car parts and supports programming and coding for different components.

- **Component Tests:** Select 'Active Test' or 'Component Test' from the menu to activate specific components and check their functionality.
- **Programming and Coding:** This function allows for programming and coding of various parts. Use with caution and only if you are familiar with the specific vehicle's requirements.
- **Key Coding:** For certain models, the device supports key coding functionality. Refer to your vehicle's service manual for specific procedures.

3. MAINTENANCE

3.1 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.
- Do not use harsh chemicals for cleaning; a soft, damp cloth is sufficient.

3.2 Software Maintenance

Regularly check for and install software updates to ensure optimal performance and compatibility with the latest vehicle models. Refer to section 1.3 for update instructions.

4. TROUBLESHOOTING

4.1 Device Does Not Power On

- Ensure the OBD II cable is securely connected to both the device and the vehicle's OBD II port.
- Verify that the vehicle's ignition is in the ON position.
- Check the vehicle's fuse for the OBD II port (consult your vehicle's owner's manual).

4.2 Communication Error

- Confirm the vehicle supports the OBD II protocol (most vehicles manufactured after 1996 do).
- Ensure the diagnostic cable is not damaged.
- Try connecting to a different vehicle to rule out a vehicle-specific issue.
- Update the device software to the latest version.

4.3 Malfunction Indicator Lamp (MIL) Remains On

After clearing fault codes, if the MIL (Check Engine Light) remains illuminated, it indicates that the underlying fault has not been resolved or a new fault has occurred. Address the root cause of the fault before attempting to clear codes again.

5. SPECIFICATIONS

Feature	Detail
Manufacturer	Foxwell
Brand	Foxwell
Model Number	111111111111
Manufacturer Part Number	111111111111
Power Source	Corded Electric
Item Weight	818 g
Shipping Dimensions	21.2 x 17.8 x 8.2 cm
ASIN	B092326PXZ
First Available Date	April 8, 2021

6. WARRANTY AND SUPPORT

6.1 Product Warranty

Please refer to the warranty card included with your product or visit the official Foxwell website for detailed warranty information. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

6.2 Technical Support

For technical assistance, software updates, or troubleshooting not covered in this manual, please contact

Foxwell customer support through their official website or authorized service centers. Have your product model and serial number ready when contacting support.

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