KINGBOLEN K6 Pro

KINGBOLEN K6 Pro OBD2 Scanner
INSTRUCTION MANUAL

Introduction

The KINGBOLEN K6 Pro is an advanced 4-in-1 automotive diagnostic scanner designed for comprehensive vehicle system analysis. This tool offers a wide range of functions including full system diagnostics, bi-directional control, ECU coding, 26+ reset services, TPMS diagnosis, and battery testing. It supports modern vehicle protocols like CANFD and DoIP, and features FCA AutoAuth for secure access to protected vehicle modules. This manual provides detailed instructions to help you effectively use your K6 Pro scanner.

Safety Information

Always observe the following safety precautions when operating the KINGBOLEN K6 Pro scanner:

- Ensure the vehicle is in a safe, well-ventilated area with the parking brake engaged.
- Wear appropriate personal protective equipment, such as eye protection and gloves.
- Avoid contact with hot engine components or moving parts.
- Do not connect or disconnect the scanner while the vehicle's ignition is on, unless specifically instructed by the vehicle manufacturer or the scanner's procedure.
- Keep the scanner dry and away from liquids, extreme temperatures, and strong magnetic fields.
- Refer to the vehicle's service manual for specific diagnostic procedures and safety warnings.

Package Contents

Verify that all items are present in your KINGBOLEN K6 Pro package:

- Main Unit (KINGBOLEN K6 Pro Scanner)
- CR-6 Cable
- OBD1 Transfer Cable
- Main Cable
- TA-17 Connector
- Cigarette Lighter Cable
- Battery Clamp Cable

- TA-22 Connector
- Light Fuse x2
- Power Adapter x3
- K-20 Connector
- Printing Paper
- USB Cable
- HA-3 Connector
- Password Envelope
- BZ-38 Connector
- NN-14+16 Connector
- User Manual
- B-20 Connector
- FT-3 Connector
- Packing List
- G/V-12 Connector
- M/H-12+16 Connector
- Soft Cloth

Product Overview

The KINGBOLEN K6 Pro is a robust diagnostic tool featuring a 2.0GHz 4-core CPU, Android 10.0 operating system, and 4+64GB memory for efficient performance. It includes a 5.99-inch screen and a 4500mAh battery for extended use. The device is designed to provide comprehensive diagnostics for over 200,000 vehicles from 128+ brands, covering models from 1996 to 2026.

Image: The KINGBOLEN K6 Pro main unit, showcasing its ergonomic design and display interface.

Key capabilities include:

- **Full System Diagnostics:** Access and diagnose all available vehicle systems (Engine, Transmission, Airbag, ABS, Body, Brake, Chassis, Powertrain, Fuel, Lights, etc.).
- **Bi-directional Control (Active Test):** Perform specific tests on vehicle components by sending commands to the ECU.
- **Advanced ECU Coding:** Personalize OE settings, perform component matching, flash hidden functions, and recode new modules.
- **26+ Reset Services:** Comprehensive maintenance functions including Oil Reset, Injector Coding, EPB Reset, SAS Calibration, ABS Bleeding, TPMS Reset, and more.
- **TPMS Diagnosis:** Activate, relearn, program, and diagnose TPMS sensors.
- **Battery Test:** Conduct battery health, smart system, charging health, electric current, voltage, starter, and ripple detection tests.
- **Protocol Support:** Compatible with CANFD, DoIP, and FCA AutoAuth for broad vehicle compatibility.

Setup

1. **Charging the Device:** Connect the K6 Pro to the power adapter using the provided USB cable. Ensure the device is fully charged before first use.

2. **Power On:** Press and hold the power button until the screen illuminates.

3. **Initial Setup:** Follow the on-screen prompts to select your language, connect to a Wi-Fi network (2.4G & 5G Dual WIFI supported), and register your device. It is recommended to perform a software update immediately after registration to ensure you have the latest vehicle coverage and functions.

4. **Connecting to Vehicle:**

   - Locate the vehicle's OBD-II port, typically under the dashboard on the driver's side.

   - Connect the main cable to the K6 Pro scanner.

   - Connect the other end of the main cable to the vehicle's OBD-II port. For older vehicles or specific models, use the appropriate OBD1 transfer cable and connectors provided.

   - Turn the vehicle's ignition to the ON position (engine off).

Image: An infographic illustrating the extensive vehicle coverage (128+ brands, 1996-2026) and protocol support (CANFD, DoIP, FCA AutoAuth) of the KINGBOLEN K6 Pro scanner.

Operating Instructions

1. Full System Diagnostic

This function allows you to read and clear diagnostic trouble codes (DTCs), view live data streams, and retrieve ECU information from all accessible vehicle systems.

1. From the main menu, select **'Diagnose'**.

2. Choose **'Auto VIN'** for automatic vehicle identification or **'Manual Input'** if Auto VIN fails.

3. Select the desired system (e.g., Engine, ABS, Airbag) to scan.

4. Choose **'Read Fault Codes'** to view DTCs or **'Live Data Stream'** to monitor real-time sensor data.

5. After diagnosis, select **'Clear Fault Codes'** to erase DTCs from the system memory.

Image: An infographic demonstrating the full system diagnostic capabilities, including reading/clearing codes, live data, and ECU info, alongside the bi-directional control function.

2. Bi-directional Control (Active Test)

This function allows you to send commands to the vehicle's ECU to activate specific components or systems, helping to pinpoint faulty parts.

1. After vehicle identification, navigate to the **'Active Test'** or **'Bi-directional Control'** menu.

2. Select the component you wish to test (e.g., fuel pump, A/C clutch, radiator fan).

3. Follow the on-screen instructions to activate or deactivate the component and observe its response.

3. Advanced ECU Coding

ECU Coding allows for customization, component matching, and unlocking hidden features for specific vehicle brands.

1. Access the **'ECU Code'** or **'Coding'** function from the main menu.

2. Select the vehicle make (e.g., VW, Audi, Skoda, Ford, Lincoln, Mazda).

3. Choose from options like **'Component Matching'**, **'Reset Adaptive Data'**, **'Flash Hidden Function'**, or **'Personalize OE-Setting'**.

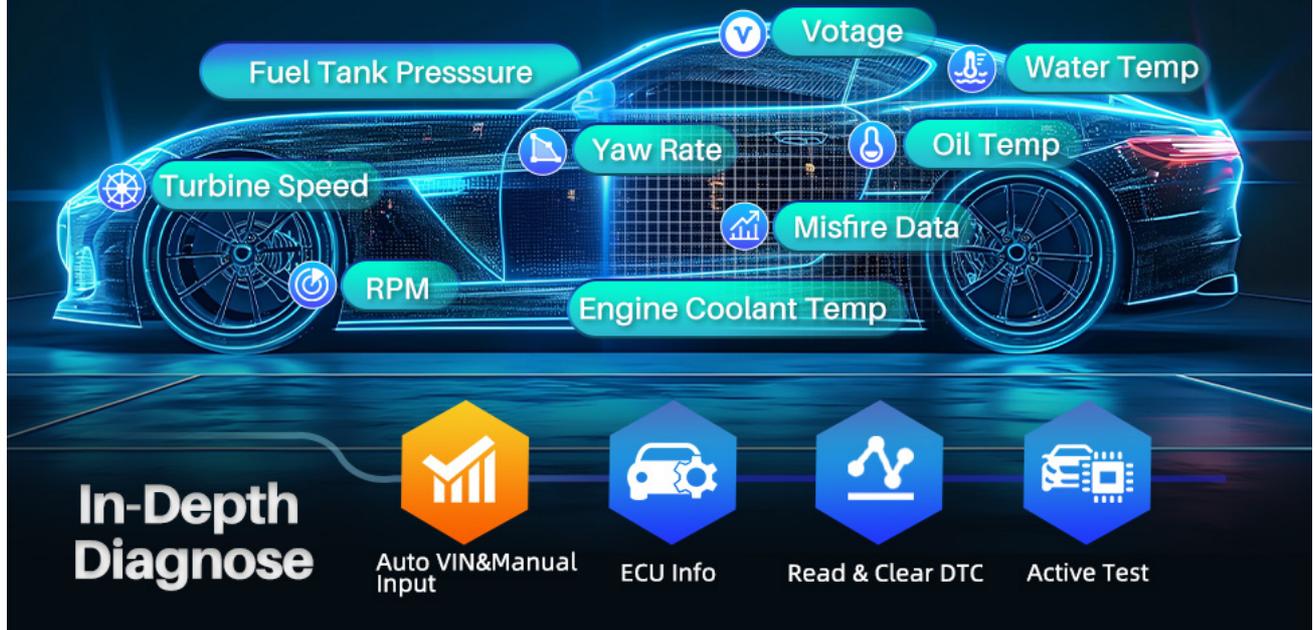4. Follow the on-screen prompts carefully to perform the desired coding operation.

Image: An infographic detailing the advanced ECU coding features, including component matching, unlocking hidden features, improving fuel efficiency, and customizing OE settings.

4. 26+ Reset Services

The K6 Pro offers a wide array of maintenance and reset functions to assist with vehicle servicing.

1. From the main menu, select **'Maintenance'** or **'Reset'**.
2. Choose the specific service required (e.g., Oil Reset, Injector Coding, EPB Reset).
3. Follow the detailed on-screen instructions to complete the service.

Some common reset services include:

- Oil Reset Service
- Injector Coding
- Electronic Parking Brake (EPB) Reset
- Steering Angle Sensor (SAS) Calibration
- ABS Bleeding
- TPMS Reset
- Gear Learning
- AFS (Adaptive Front-lighting System) Reset
- Battery Match
- Throttle Reset
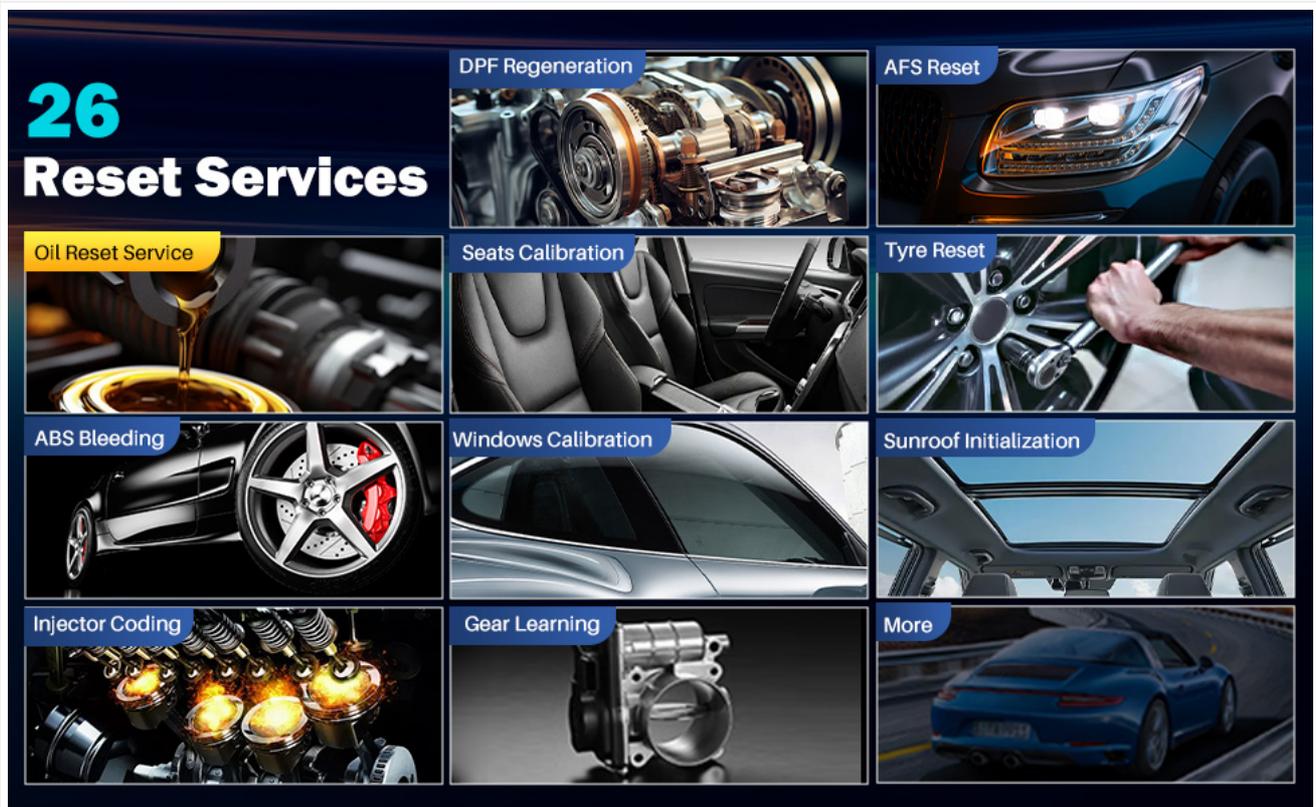- Suspension Reset
- DPF Regeneration

Image: An infographic showcasing various reset, calibration, initialization, and matching services available on the KINGBOLEN K6 Pro, such as Oil Reset, Injector Coding, and ABS Bleeding.

5. TPMS Functions

The K6 Pro includes built-in TPMS functionality for comprehensive tire pressure monitoring system management.

1. From the main menu, select **'TPMS'**.
2. Choose from **'TPMS Activation'** to activate sensors, **'TPMS Relearn'** to link sensors to the vehicle, **'TPMS Program'** to create new sensor IDs, or **'TPMS Diagnose'** to read/clear TPMS DTCs and check sensor data.
3. Follow the on-screen instructions for each specific TPMS procedure.

Image: An infographic illustrating the comprehensive TPMS functions of the K6 Pro, including activation, relearn, program, and diagnose capabilities.

6. Battery Test

Perform various tests on 12V automotive batteries to assess their health and performance.

1. Connect the battery clamp cable to the K6 Pro and then to the vehicle battery terminals (red to positive, black to negative).
2. From the main menu, select **'Battery'**.
3. Choose the desired test: **'Battery Health Test'**, **'Smart System Test'**, **'Charging Health Test'**, **'Electric Current Test'**, **'Voltage Test'**, **'Starter Test'**, or **'Ripple Detection'**.
4. Follow the on-screen instructions to perform the test and view the results.
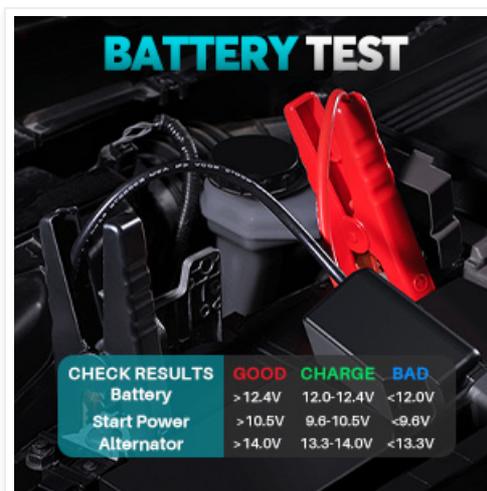

Image: A close-up of the smart battery detection clip connected to a car battery, illustrating the battery testing function of the K6 Pro.

7. Print Test Reports

The K6 Pro features a built-in thermal printer for real-time printing of diagnostic reports.

1. After completing a diagnostic or service function, look for a **'Print'** or **'Report'** option on the screen.
2. Confirm the print job. The device will print the report on standard 57*30mm thermal paper.

Image: An infographic showing the KINGBOLEN K6 Pro displaying various diagnostic data and a printed report, highlighting its real-time printing capability.

Maintenance

- **Software Updates:** Regularly connect the K6 Pro to Wi-Fi and check for software updates via the **'Update'** icon on the main menu. Keeping the software current ensures the latest vehicle coverage and diagnostic functions.
- **Cleaning:** Clean the device with a soft, damp cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the scanner in its original case in a dry, cool environment when not in use.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently and store the device with a partial charge if not used for extended periods.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on	Low battery; Power button not pressed long enough; Device malfunction	Charge the device; Press and hold power button for 3-5 seconds; Contact technical support
No communication with vehicle	Loose connection; Incorrect OBD-II port; Vehicle ignition off; Blown fuse in vehicle; Software issue	Check cable connections; Verify OBD-II port location; Turn ignition ON; Check vehicle fuses; Update software

Problem	Possible Cause	Solution
Screen freezes or responds slowly	Too many applications running; Software glitch; Low memory	Restart the device; Close unnecessary applications; Perform a factory reset (data will be lost); Update software
Print function not working	No paper; Paper jammed; Printer malfunction	Check and replace thermal paper; Clear any paper jams; Contact technical support

Specifications

Feature	Specification
Model	Kingbolen K6 Pro
Operating System	Android 10.0
CPU	2.0GHz 4-core
Memory	4GB RAM + 64GB Storage (extendable)
Screen Size	5.99 Inches
Battery	4500mAh Lithium Ion (included)
Connectivity	2.4G & 5G Dual WIFI
Product Dimensions	17.1"L x 11.1"W x 14.6"H (43.4 x 28.2 x 37.1 cm)
Item Weight	14.08 pounds (6.39 kg)
Supported Protocols	CANFD, DoIP, FCA AutoAuth, FCA SGW, Auto VIN
Vehicle Coverage	Over 99% OBD2/EOBD cars, 128+ brands (1996-2026)

Warranty and Support

The KINGBOLEN K6 Pro comes with a **2-Year Free Software Update** period, ensuring your device remains current with the latest vehicle models and diagnostic functions. KINGBOLEN also provides **24/7/365 Technical Support** to assist you with any operational or technical queries.

For technical assistance or warranty claims, please refer to the contact information provided in your product packaging or visit the official KINGBOLEN website.