KINGBOLEN S500 Smart Scanner Code Reader Diagnostic Tool User Manual

Contents

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KINGBOLEN S500 Smart Scanner Code Reader Diagnostic Tool

Welcome
Thank you for purchasing KINGBOLEN automotive diagnostic tool KINGBOLEN S. Please patiently read and understand this User Manual before operating this product.
About
KINGBOLEN S is designed with technicians in mind. This 5” Android tablet-style scanner boasts high-quality features with easy workfl ow to tackle the common and complex vehicle diagnostic issues for most modern vehicles worldwide.

Package List

- KINGBOLEN S
- TYPE-C Charging Cable
- Quick User Guide
- DB-15 Diagnostic Cable

Compatibility

KINGBOLEN S is compatible with the following protocols:

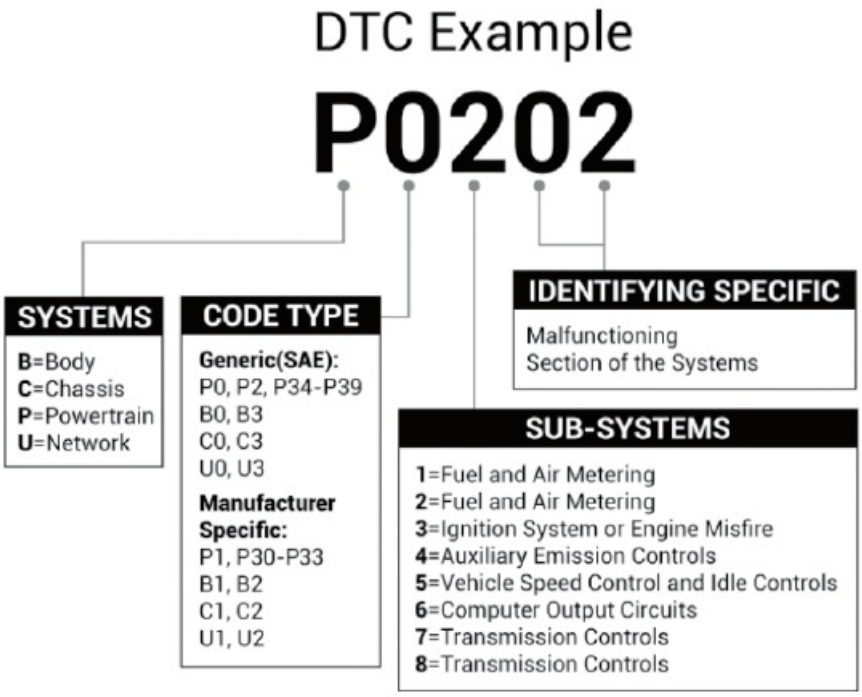
- KWP2000
- ISO9141
- J1850 VPW
- J1850 PWM
- CAN(Controller Area Network)
- And more

Notice
The OBDII system is designed to monitor emission control systems and key engine components by performing either continuous or periodic tests of specifi c components
and vehicle conditions, which will off er three pieces of such valuable information:

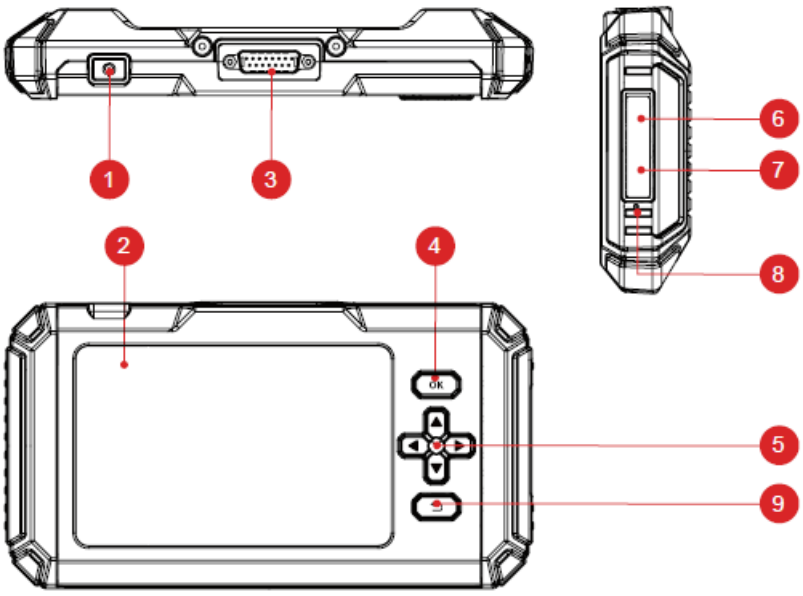
- Whether the Malfunction Indicator Light (MIL) is commanded “on” or “off ”;

- Which, if any, Diagnostic Trouble Codes(DTCs)are stored;
- Readiness Monitor status.

Diagnostic Trouble Codes(DTCs)



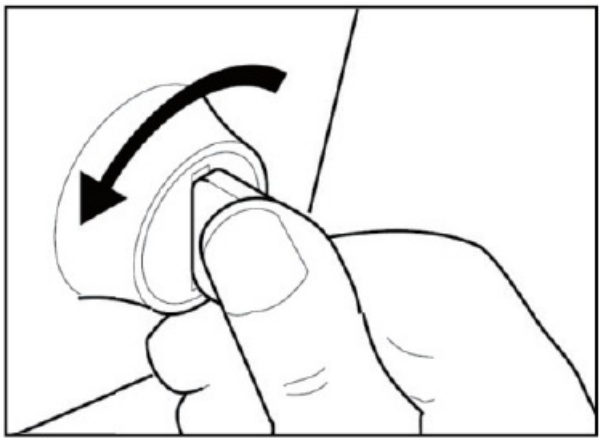
Product Overview



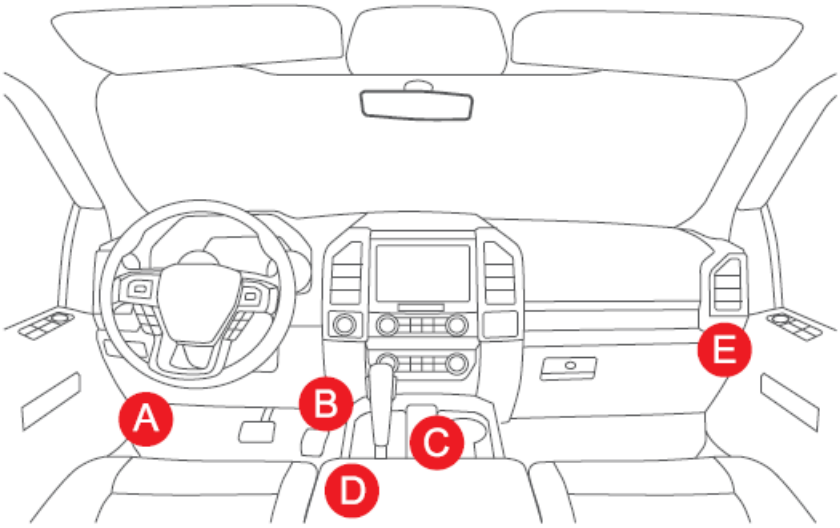
1. Power/Screen Lock Button: Long press for 5 seconds to turn on or off .
2. 5” Touchable Screen: Dispaly 480*854 resolution.
3. Diagnostic Cable: Used to connect car OBD connector.
4. OK Button: Confi rm button.
5. Selection Buttons: Up,down,left and right direction selection.
6. TF Card Slot: Support expandable SD memory card (please purchase by yourself).

7. TYPE-C Interface (5V-1.2A): TYPE-C port supports voltage 5V-1.2A,please do not exceed the range!
8. Reset Button: Power on and off reset.
9. Return Button: Return to the previous step.

Preparation & Connection



1. Turn the ignition off .
2. Locate the vehicle’s DLC socket.

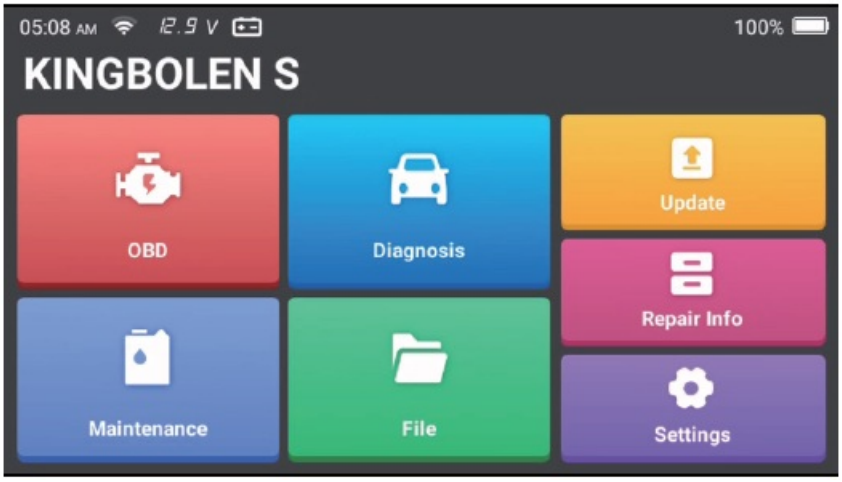


3. Plug the KINGBOLEN S diagnostic cable into the vehicle’s DLC socket.
4. Turn the ignition on. The engine can be off or running.
5. Hold the Power button for 5 seconds to turn the KINGBOLEN S on. The tablet will start initializing and enter the following interface.

   Note: Don’t connect or disconnect any test equipment with the ignition on or engine running.
6. Language Setting Used to select the tool language.
7. Choose Time Choose the time zone where you are in.The system will automatically confi gure the time according to the time zone you selected.
8. Connect Wi-Fi The system will automatically search all available Wi-Fi networks.You can choose the Wi-Fi needed.Tap “Next”.It will automatically jump to the Home Menu.

Operation Introduction

KINGBOLEN S has 7 main modules, OBD, Diagnosis, Maintenance, File , Update, Repair Info, settings.



OBD
This function presents a quick way to check for DTCs, isolate the cause of the illuminated Malfunction Indicator Lamp (MIL), check monitor status prior to emissions certifi cation testing, verify repairs, and perform other services that are emission-related.
Tap “OBDII/EOBD” in the Home Menu after the tablet is properly connected to the vehicle’s DLC port. The tablet will start an automatic check of the vehicle’s computer to determine which type of communication protocol it is using, then display the Monitor Status as follows:
Tap “OK”, the following OBDII function list appears.

- **Read Codes**
  - This function can identify which section of the emission control system has malfunctioned.
- **Erase Codes**
  - This function erases the codes from the vehicle, after retrieving codes from the vehicle and certain repairs have been carried out.
  - Make sure the vehicle’s ignition key is in the ON position with the engine being off before the operation.
- **Data Stream**
  - This function retrieves and displays live data and parameters from the vehicle’s ECU.
- **View Freeze Frame**
  - This function takes a snapshot of the operating conditions when an emission-related fault occurs.
- **O2 Sensor Test**
  - This function retrieves O2 sensor monitor test results of the most recently completed tests from the vehicle’s on-board computer.
- **On-Board Monitor Test**
- This function retrieves test results for emission-related power train components and systems that are not continuously monitored. The test’s availability is determined by the
  - vehicle manufacturer.
- **EVAP System Test**
  - This function initiates a leak test for the vehicle’s EVAP system. Refer to the vehicle’s service repair manual to determine the procedures necessary to stop the test.

Vehicle Info
This function retrieves a list of information (provided by the vehicle manufacturer) from the vehicle’s on-board computer. This information may include:

- VIN (Vehicle Identifi cation Number)

- CID (Calibration ID)
- CVN (Calibration Verifi cation Number)

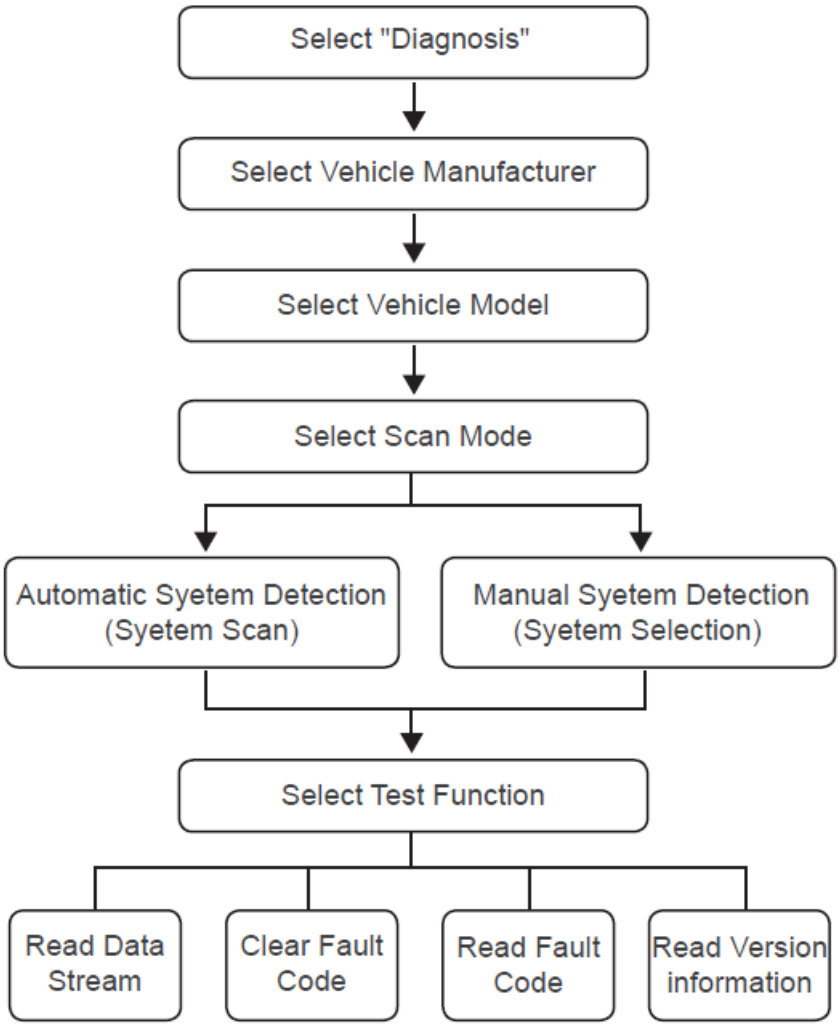
Diagnosis

KINGBOLEN S supports Smart Diagnosis and Manual Diagnosis for Engine,Transmission,ABS,and SRS systems of most modern vehicles across the global. A diagnostic report will be automatically generated after the diagnosis.

Smart Diagnosis
Connect the unit to the DLC's port via OBDII cable. Turn the ignition key on.Tap"Diagnosis" in the main interface, and then tap "Auto Search.The system will automatically start scanning the vehicle's VIN data.

Note: Follow the prompts to proceed if the communication failure occurs.

Manual Diagnosis
If the tool cannot obtain or analyze the VIN information, you can also perform Manual Diagnosis. In this mode,you need to execute the menu-driven command and follow the on-screen instruction to proceed.Refer to the fl owchart illustrated as below to run the manual system diagnostics.



Take "Demo" as an example to demonstrate how to manually diagnose a vehicle. After selecting the vehicle manufacturer,the following screen may appear.

Health Report

- This function can quickly reveal the vehicle’s health status.
- Tap “Health Report”. The system will start scanning DTCs and show the test results.
- The DTC will be displayed on the screen in red font, with a specifi c defi nition.
  Note: This function will be available only when the diagnostic software supports it.

System Scan

- This function will automatically scan all systems of the vehicle.

System Selection

- This function allows you to manually choose the automotive electronic control system.
- Tap “ECM” (e.g.). The screen will show the selection interface.
- Choose the system to be tested. The following screen may vary by vehicle’s make, model, and year.

Version Information

- This function reads the current version information of ECU.

Read Fault Code

- This function can read the Diagnostic Trouble Codes (DTCs) in the ECU memory, helping quickly identify the cause of the vehicle breakdown.
- Tap “Read Fault Code”. The screen will display diagnostic results.

Clear Fault Code

- This function can clear the DTC of the ECU memory of the tested system.

Read Data Stream

- This function can read and display the real-time data and parameters of ECU.
- To view the specifi c data stream, check the box next to its name, and then tap “OK”.

The system will display a maximum of four dynamic data steams in three modes:

1. **Value (default):** Shows parameters with numbers and lists.
2. **Figure:** Displays parameters with wave patterns.
3. **Combine:** The graphs can be merged for easier comparisons.

Tap “Combine”. The system will display the merged parameters of the selected data streams with wave patterns.

Diagnostic History

- The tablet will record the details of every diagnostic session.

- The History function provides direct access to the previously tested vehicles. Users can resume from the last operation, without the necessity of starting from scratch. Tap
- “HISTORY” in the “Scan” module. All diagnostic records will be listed on the screen in a date sequence.

2.7 I/M Readiness

- This function checks whether or not the various emissions-related systems on the vehicle are operating properly, and are ready for Inspection and Maintenance testing.
- It can also be used to check the Monitor Run Status and to confi rm if the repair of a car fault has been performed correctly.

Maintenance

- KINGBOLEN S has 15 common maintenance and reset functions (OIL, BRAKE, SAS, ETS, BMS, DPF, TPMS, BLEED, IMMO, INJEC, BOX, EGR, AFS, SUS, SUN),
- depending on the product confi guration.

File

- This module can record and establish the fi le of the diagnosed vehicles, including all diagnostic-related data such as diagnostic reports, and data stream records.

Update

- This module allows you to update the diagnostic software & App to the latest version.
- A pop-up message will indicate newer software is available if you don’t update the software in the process of registration.

Repair Info

This module includes four sections:

1. **OBD Fault Code Library:** The detailed explanation of the fault codes.
2. **Coverage List:** The supported vehicles’ information.
3. **Videos:** Contains table usage tips, maintenance, and diagnostic guides.
4. **Learning Course:** Demonstrates how to operate the tool.

Settings

You can modify or add related information in this module, or make settings after the initial setting is completed.

FAQ

- **Q:** Why does KINGBOLEN S have no responses when it is connected to a car?A: Check if the connection with the vehicle diagnostic socket is solid,or check if the ignition switch is on,or if the tool supports the car.

- **Q:** Why does the system stop when reading the data stream?
- **A:** It may be caused by a slackened connector.Please turn off the scanner, fi rmly connect the connector,and switch it on again.
- **Q:** Communication error with vehicle ECU?
- **A:** Please confi rm the following cases:
    - Whether diagnostic connector is correctly connected.
    - Whether ignition switch is ON. Or,send your vehicle's year, make, model and VIN number to us using Feedback feature for timely technical assistance.
- **Q:** Why does the screen fl ash when the engine ignition starts?A: It is normal and caused by electromagnetic interference.
- **Q:** How to upgrade the system software?
- **A:** 1.Power on the tool and ensure a stable Internet connection.
- **2.** Go to "Set up" → "App Update", tap "OTA" and then tap "check version" to enter the system upgrade interface.
- **3.** Complete the process by following the instructions on the screen step by step. It may take a few minutes depending on the status of your network.
  After the upgrade is fi nished,the tool will automatically restart and display the main interface.
- **Q:** How to capture the screenshot?
- **A:** Tap the"Screenshot" icon on the screen to capture the current screen,which will be saved in the Photo Album module.

Warranty Terms

This warranty applies only to users and distributors who purchase KINGBOLEN S products through normal procedures. Provide free warranty within one year. KINGBOLEN TECH warrants its electronic products for damages caused by defects in materials or workmanship.
Damages to the equipment or components caused by abusing, unauthorized modifi cation, using for non-designed purposes, operation in a manner not specifi ed in the instructions, etc.are not covered by this warranty. The compensation for dashboard damage caused by the defect of this equipment is limited to repair or replacement. KINGBOLEN TECH does not bear any indirect and incidental losses. KINGBOLEN TECH will judge the nature of the
equipment damage according to its prescribed inspection methods. No agents, employees or business representatives of KINGBOLEN TECH are authorized to make any confi rmation, notice or promise related to KINGBOLEN TECH products.

FCC

FCC Requirement

Changes or modifi cations not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference

in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit diff erent from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specifi c operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The mobile device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certifi cation for use when properly worn on the body is 0.51W/kg.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions a minimum of 0mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

IC Requirement

This device complies with Industry Canada’s licence-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

   The term “IC: “ before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

IC WARNING

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specifi c operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The mobile device is designed to meet the requirements for exposure to radio waves established by the Innovation, Science and Economic Development Canada (Canada). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certifi cation for use when properly worn on the body is 0.51W/kg.

For body operation, this device has been tested and meets ISED RF exposure guidelines when used with any accessory that contains no metal and that positions a minimum of 0mm from the body. Use of other accessories

may not ensure compliance with ISED RF exposure guidelines.

CONTACT

- **Service Line:** (+86)0755-23445106
- **Customer Service Email:** support@kingbolen.com
- **Offi cial Website:** www.kingbolen.com
- **Youtube:** Kingbolen auto scanner center
- **Facebook:** @kingbolen.fans
- **Instagram:** @kingbolen.fans

  Products tutorial, videos, FAQ and coverage list are available on kingbolen offi cial website.

Documents / Resources

	KINGBOLEN S500 Smart Scanner Code Reader Diagnostic Tool [pdf] User Manual KS568, 2A8T7KS568, S500, S500 Smart Scanner Code Reader Diagnostic Tool, Smart Scanner Code Reader Diagnostic Tool, Scanner Code Reader Diagnostic Tool, Reader Diagnostic Tool, Diagnostic Tool

References

- Alt innen reklame i over 25 år
- Car Diagnostic Tool OBD2 Scanner Diagnostic Auto - Kingbolen.com