thinkcar ThinkDiag

thinkcar ThinkDiag Bluetooth OBD2 Scanner User Manual

Model: ThinkDiag

1. Introduction

This manual provides detailed instructions for the proper use and maintenance of your thinkcar ThinkDiag Bluetooth OBD2 Scanner. The ThinkDiag is a professional diagnostic tool designed to connect to your vehicle's On-Board Diagnostics (OBD2) system via Bluetooth, allowing for comprehensive vehicle health monitoring, diagnostic trouble code reading, and various maintenance reset functions through a compatible smartphone or tablet application. Please read this manual thoroughly before operating the device to ensure correct usage and to prevent damage to the product or your vehicle.

Image 1.1: The thinkcar ThinkDiag Bluetooth OBD2 Scanner. This image displays the compact, black and red diagnostic device, highlighting its design and form factor.

2. Product Overview

The thinkcar ThinkDiag scanner offers a range of advanced diagnostic capabilities:

- **Full System Diagnosis:** Access and scan all available electronic control units (ECUs) in your vehicle, including engine, transmission, ABS, SRS, and more.
- **15 Reset Functions:** Perform common maintenance and service resets such as Oil Reset, EPB Reset, SAS Reset, BMS Reset, TPMS Reset, and more.
- **Bi-Directional Control (Actuation Tests):** Send commands to vehicle systems to test component functionality, such as turning on the fuel pump or cycling the ABS pump.
- **ECU Coding:** Recode adaptive data for specific vehicle systems or components after repairs or replacements.

- **Auto VIN Scan:** Automatically identify vehicle information for quick and accurate diagnosis.
- **Bluetooth Connectivity:** Wireless connection to your smartphone or tablet via the ThinkDiag app.
- **Wide Vehicle Coverage:** Compatible with a broad range of American, European, and Asian vehicle makes and models.

Image 2.1: Vehicle Coverage Map. This image illustrates the extensive vehicle compatibility of the ThinkDiag scanner, covering major American, European, and Asian car brands.

3. Setup Guide

Follow these steps to set up your thinkcar ThinkDiag device and begin diagnostics:

1. **Download the ThinkDiag App:** Search for 'ThinkDiag' in the Apple App Store (for iOS devices) or Google Play Store (for Android devices) and install the application. Ensure your device meets the minimum operating system requirements (iOS 9.0 or above, Android 5.0 or above).
2. **Register and Log In:** Open the ThinkDiag app. You will need to register for a new account using your email

address. Follow the on-screen prompts to complete the registration and log in.

3. **Plug the Device into the OBD2 Port:** Locate your vehicle's OBD2 port, typically found under the dashboard on the driver's side. Plug the ThinkDiag device firmly into the port. The device will power on automatically, indicated by an LED light.
4. **Activate the ThinkDiag Device:** Within the app, navigate to the activation section. Enter the serial number of your ThinkDiag device (usually found on the device itself or its packaging) to activate it.
5. **Connect via Bluetooth:** The ThinkDiag app will automatically search for and connect to your device via Bluetooth. Ensure Bluetooth is enabled on your smartphone or tablet. You do not need to pair the device through your phone's Bluetooth settings; the app handles the connection.
6. **Download Vehicle Software:** After successful connection, you may be prompted to download specific vehicle diagnostic software packages. Select the relevant software for your vehicle's make and model.

Image 3.1: Bluetooth Connection Steps. This image visually guides users through downloading the app, plugging in the device, connecting via Bluetooth within the app, and starting diagnosis.

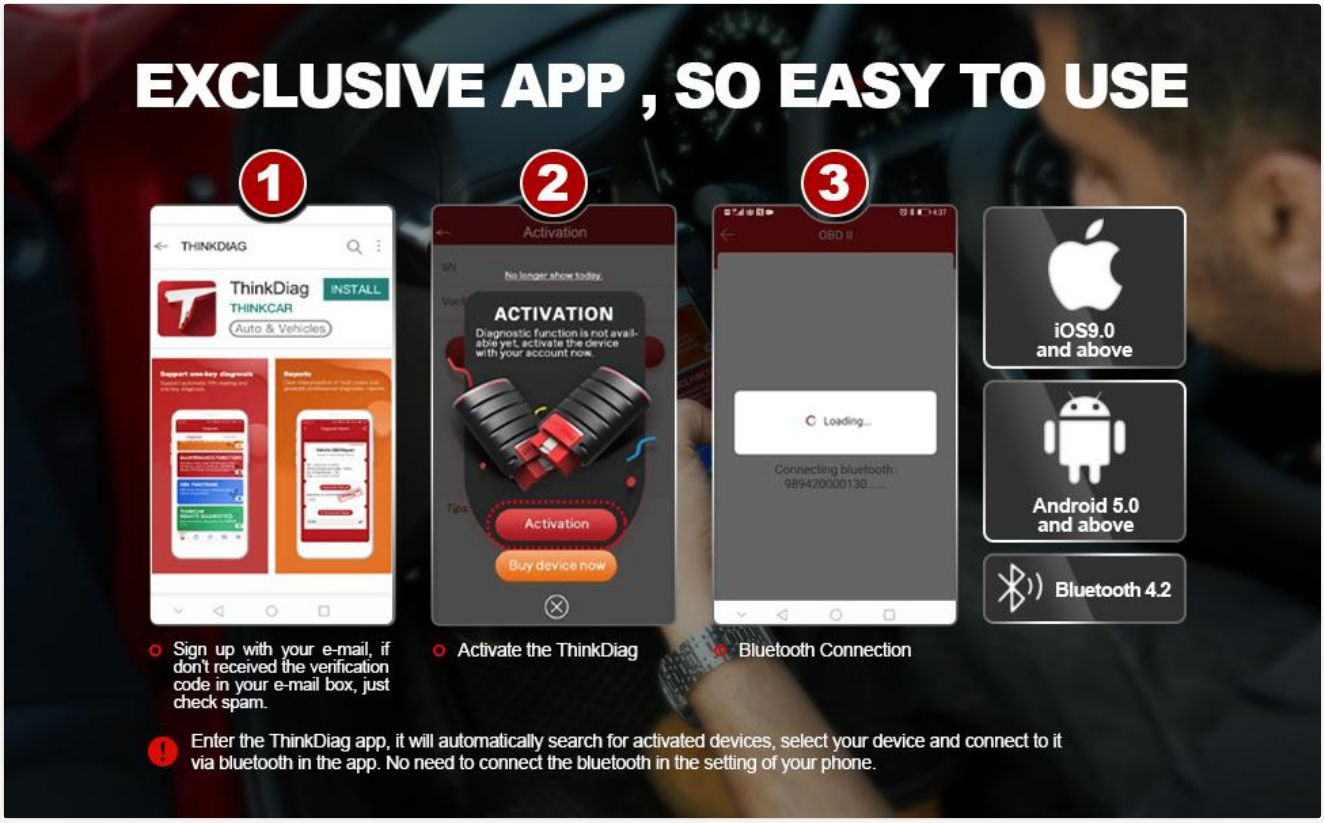

Image 3.2: Exclusive App Usage. This image shows the steps for signing up, activating the ThinkDiag device, and establishing a Bluetooth connection through the dedicated app.

4. Operating Instructions

4.1. Full System Diagnosis

The Full System Diagnosis function allows you to scan all electronic control units (ECUs) in your vehicle for diagnostic trouble codes (DTCs) and view live data streams. This provides a comprehensive overview of your vehicle's health.

1. From the app's main menu, select 'All Systems Full Function' or 'Diagnosis'.
2. The app will automatically identify your vehicle via Auto VIN scan or prompt you to manually select the vehicle make, model, and year.
3. Initiate the full system scan. The app will display the progress and results, including any detected DTCs.
4. You can then view detailed descriptions of DTCs, clear codes, and access live data for various sensors and components.

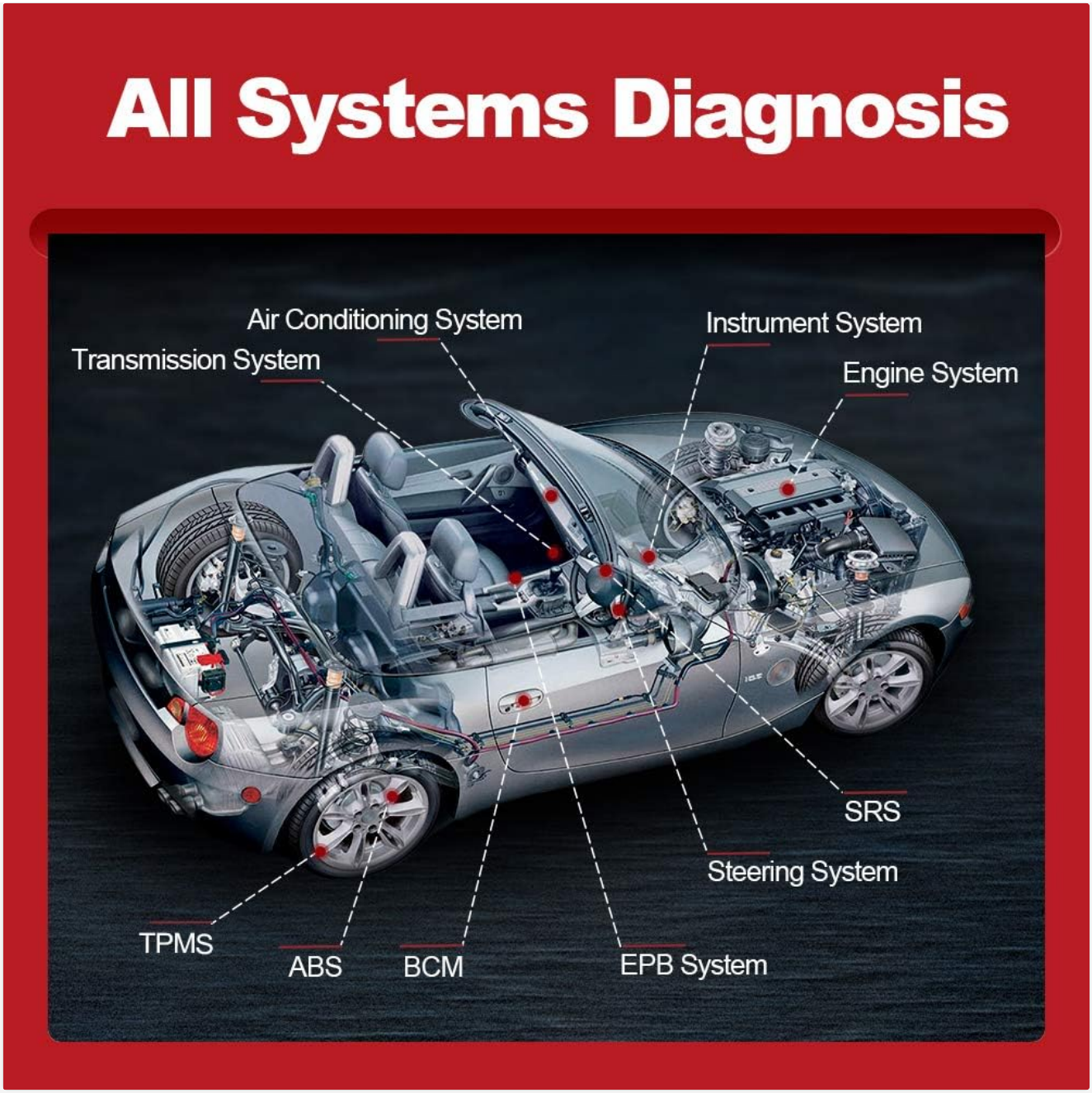

Image 4.1: All Systems Diagnosis. This diagram illustrates the various vehicle systems that the ThinkDiag scanner can access, including Engine, Transmission, ABS, SRS, and more.

Image 4.2: Powerful All Systems Diagnosis. This image displays icons representing various vehicle systems that can be diagnosed, such as Engine, Transmission, ABS, SRS, and EPB.

4.2. 15 Reset Functions

The ThinkDiag offers 15 commonly used maintenance reset functions. These functions help in resetting service lights, adapting new components, or performing specific maintenance procedures.

1. From the app's main menu, select 'Maintenance Functions' or 'Reset Service'.
2. Choose the specific reset function you wish to perform (e.g., Oil Reset, EPB Reset, SAS Reset).
3. Follow the on-screen instructions carefully, as procedures may vary by vehicle make and model.

Examples of available reset functions include:

- **Oil Reset:** Resets the engine oil life system.
- **EPB Reset:** Resets the electronic parking brake system after brake pad replacement.
- **SAS Reset:** Calibrates the steering angle sensor.
- **BMS Reset:** Registers a new battery to the ECU.
- **TPMS Reset:** Resets tire pressure monitoring system sensors.
- **ABS Bleeding:** Performs ABS brake bleeding procedures.
- **Injector Coding:** Codes new injector numbers to the ECU.
- **Throttle Adaptation:** Relearns throttle body position.

Image 4.3: 15 Special Maintenance Reset Functions. This grid displays icons and descriptions for various maintenance reset functions, such as AFS, Brake, DPF, BMS, ETS, Bleed, Gearbox, IMMO, Injec, Oil Reset, EGR, SAS, Sun, SUS, and TPMS.

Image 4.4: 15 Reset Service Functions. This image shows icons for various reset functions including Oil Reset, EGR Reset, AFS Headlamp, ABS Bleeding, Battery Match, Sunroof Initialize, Transmission Reset, EPB Reset, DPF Reg, Throttle Adaptation, Suspension Reset, TPMS Reset, IMMO Reset, Injector Coding, and SAS Reset.

4.3. Bi-Directional Control (Actuation Tests)

Bi-directional control allows the diagnostic tool to transmit commands to the vehicle's ECUs to perform specific tests on actuators, such as fuel pumps, solenoids, or relays. This helps in pinpointing faulty components.

1. Access the 'Active Test' or 'Bi-Directional Control' option within the app after selecting your vehicle.
2. Choose the specific component or system you wish to test.
3. Follow the on-screen prompts to activate or deactivate the component and observe its response.

Image 4.5: Bi-Directional Control Actuation Tests. This image depicts the ThinkDiag device wirelessly communicating with a vehicle's engine, illustrating its capability to perform actuation tests by sending commands to ECUs.

4.4. ECU Coding

ECU Coding allows you to recode adaptive data for certain vehicle systems or components. This is often necessary

after replacing a module or performing specific modifications.

1. Navigate to the 'ECU Coding' function within the app.
2. Select the specific ECU or component you intend to code.
3. Follow the detailed on-screen instructions to perform the coding procedure. Incorrect coding can lead to vehicle malfunctions, so proceed with caution and ensure you have the correct information.

Image 4.6: ECU Coding. This image shows the ThinkDiag device connected to a vehicle's OBD port, with a graphic representation of an ECU chip, indicating the device's capability to recode adaptive data.

4.5. Generating Diagnostic Reports

After performing a diagnosis, the ThinkDiag app can generate professional diagnostic reports that summarize the findings, including DTCs, live data, and system status. These reports can be saved or printed.

1. After completing a scan, look for the 'Report' or 'Save Report' option within the app.
2. Review the generated report.
3. You can typically save the report as a PDF or share it via email. Some versions of the app may also support direct printing.

Image 4.7: Print Professional Vehicle Diagnostic Report. This image illustrates the process of generating and printing a comprehensive vehicle diagnostic report from the ThinkDiag app.

5. Maintenance

To ensure the longevity and optimal performance of your thinkcar ThinkDiag device, follow these maintenance guidelines:

- **Storage:** Store the device in a cool, dry place, away from direct sunlight, extreme temperatures, and excessive moisture.
- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the casing or internal components.
- **Connection Ports:** Keep the OBD2 connector free from dust and debris. Inspect the pins periodically for any signs of damage.
- **Software Updates:** Regularly check the ThinkDiag app for software and firmware updates. Keeping the app and device firmware updated ensures compatibility with newer vehicles and access to the latest features and bug fixes.
- **Avoid Physical Damage:** Protect the device from drops, impacts, and excessive force.

6. Troubleshooting

If you encounter issues while using your ThinkDiag device, refer to the following common troubleshooting steps:

- **Device Not Powering On:**
  - Ensure the device is firmly plugged into the vehicle's OBD2 port.
  - Verify the vehicle's ignition is in the 'ON' position (or engine running, depending on the function).

- Check the vehicle's fuse for the OBD2 port (consult your vehicle's owner's manual).

- **Bluetooth Connection Failure:**
  - Ensure Bluetooth is enabled on your smartphone/tablet.
  - Close and restart the ThinkDiag app.
  - Unplug the ThinkDiag device from the OBD2 port, wait 10 seconds, and plug it back in.
  - Ensure you are connecting through the ThinkDiag app, not directly through your phone's Bluetooth settings.
  - Try connecting with a different compatible smartphone or tablet to rule out device-specific issues.
- **Unable to Read VIN or Connect to Vehicle:**
  - Confirm the vehicle's ignition is on.
  - Ensure the correct vehicle diagnostic software for your make/model is downloaded and selected in the app.
  - Verify the OBD2 port is functioning correctly (e.g., by testing with another OBD2 scanner if available).
  - Some older or modified vehicles may have non-standard OBD2 implementations.
- **App Freezes or Crashes:**
  - Ensure your app is updated to the latest version.
  - Clear the app's cache or reinstall the app.
  - Ensure your smartphone/tablet has sufficient free storage and RAM.
- **Subscription/Software Access Issues:**
  - Verify your subscription status within the app.
  - Ensure you have downloaded and activated the correct vehicle software packages.
  - Contact thinkcar support if issues persist after verifying your account and purchases.

7. Specifications

Specification	Detail
Brand	thinkcar
Model Name	ThinkDiag
Model Number	ZJDiag
Item Weight	4.5 ounces
Product Dimensions	1.5 x 1.2 x 1.3 inches
Power Source	Electric (via OBD2 port)
Operating System Compatibility	Android (5.0 and above), iOS (9.0 and above)
Connectivity	Bluetooth 4.2
UPC	789615470490, 768297574283, 768297574306

Specification	Detail

8. Warranty Information

Specific warranty details for the thinkcar ThinkDiag device are typically provided at the point of purchase or within the product packaging. Please refer to the warranty card or contact thinkcar customer support for precise information regarding warranty duration and coverage.
Generally, warranties cover manufacturing defects under normal use. Damage resulting from misuse, accidents, unauthorized modifications, or failure to follow instructions may not be covered.

9. Support

For further assistance, technical support, or inquiries regarding your thinkcar ThinkDiag Bluetooth OBD2 Scanner, please utilize the following resources:

- **In-App Support:** The ThinkDiag application often includes a support section with FAQs, tutorials, and direct contact options.
- **Official Website:** Visit the official thinkcar website for product information, updated manuals, software downloads, and contact details.
- **Email Support:** Contact thinkcar customer service via email for detailed technical assistance.

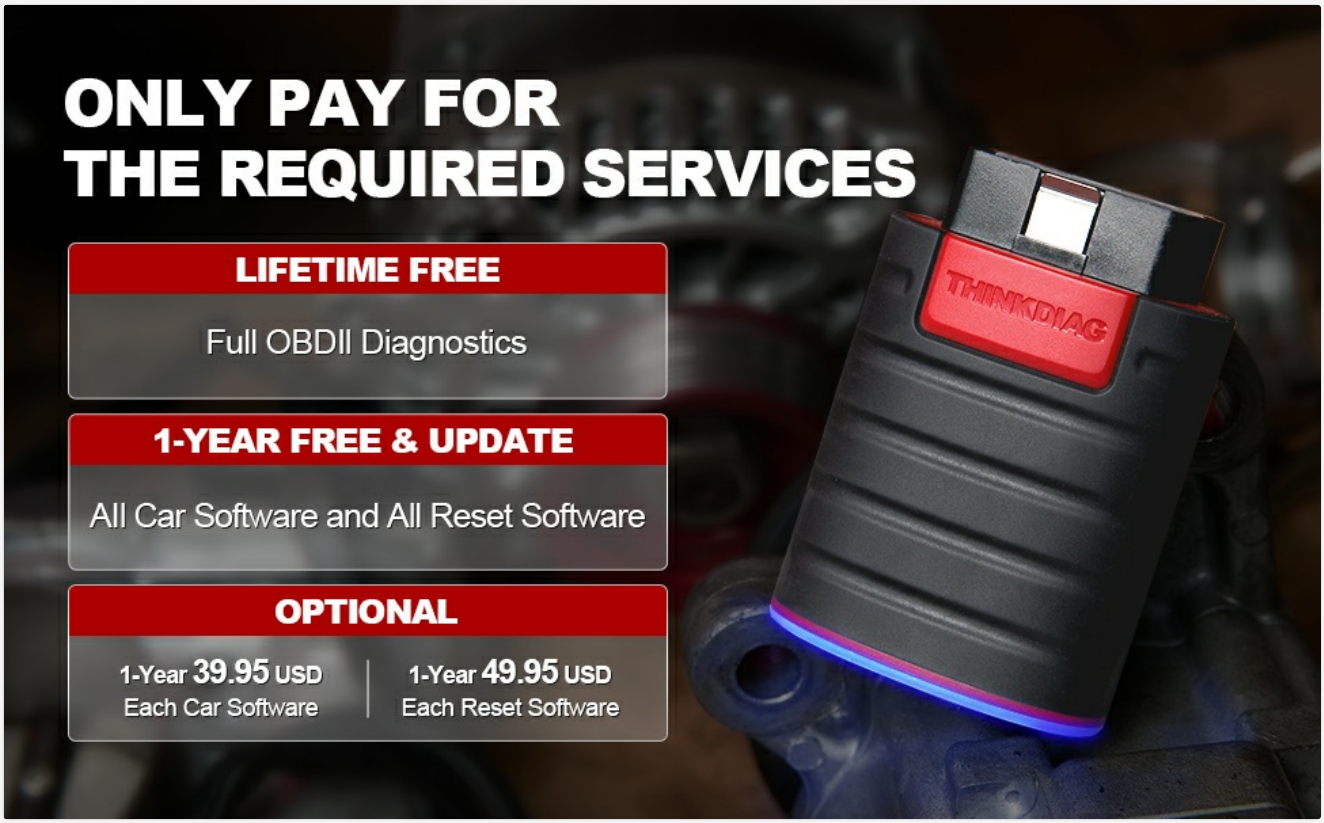

Image 9.1: Software Service Options. This image outlines the different service packages available for the ThinkDiag, including lifetime free OBDII diagnostics, 1-year free updates for all car and reset software, and optional paid subscriptions for individual car or reset software.