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iKiKin FA40

iKiKin FA40 OBD2 Scanner Instruction Manual

Model: FA40 | Brand: iKiKin

1. INTRODUCTION

The iKiKin FA40 is a wireless OBD2 diagnostic scan tool designed to provide comprehensive vehicle diagnostics directly to your iOS or Android device. This device connects to your vehicle's OBD2 port and communicates via Bluetooth 4.0, allowing you to read and clear fault codes, monitor live data, perform I/M readiness checks, and conduct performance tests. It is an essential tool for understanding your vehicle's health and addressing potential issues.



Figure 1: iKiKin FA40 OBD2 Scanner and its primary functions including Dashboard, Live Data, Diagnostic Trouble Codes, Freeze Frame, Acceleration Tests, Emission Tests, All Sensors, Noncontinuous Monitors, and Terminal.

2. PRODUCT FEATURES

The FA40 OBD2 Scanner offers a range of features designed to assist with vehicle diagnostics and monitoring:

- **Easy Pairing:** Connects wirelessly to iOS/Android devices via Bluetooth 4.0. Pairing is done within the application, not directly through device Bluetooth settings (except for iOS, where initial Bluetooth connection might be required).
- **Full System Diagnostics:** Detects and provides definitions for Diagnostic Trouble Codes (DTCs) across all vehicle systems.
- **I/M Readiness Check:** Verifies if your vehicle is ready for emission tests, ensuring all monitors are functioning correctly.
- **Live Data Stream:** Displays real-time vehicle data, such as engine coolant temperature, for detailed analysis and troubleshooting.

- **Fault Codes Warning:** Provides complete definitions for fault codes and issues warnings on your smart device for critical conditions like high coolant temperature.
- **Performance Test:** Measures key performance metrics including 100 km/h acceleration time, top speed, engine load, and engine coolant temperature.
- **Battery Voltage Test:** Monitors battery voltage before, during, and after vehicle startup to assess battery health.



Figure 2: Overview of the 12 core functions provided by the FA40 OBD2 Scanner, including Trip Record, Fault Code Detection Query, Real-time Detection of Car Conditions, Whole Vehicle Depth Scan, Malfunction Light Delete, Performance Testing, Trip Analysis, Head Up Display Value, Read Data Stream, Throttle Carbon Deposit Detection, Precise Fuel Consumption Monitoring, and Battery Voltage.

Why Choose FA40 OBD2 Scanner ?



All System Diagnostics



Updated
BT4.0 always
keep OBD2
connected with
your phone



Upgrade CAN chip



Support 95% Vehicle Models



Work with all vehicles sold after 1996



Avoid Buying Bad Used Vehicles



Diagnose Car Problems Yourself



Reliable and Consistent



Fast & easy identify issues for quick and accurate repairs



Updated BT4.0 always keep OBD2 connected with your phone



Comprehensive view of the performance of the car before buying a used vehicle

Figure 3: Key advantages of the FA40 OBD2 Scanner, highlighting its all-system diagnosis capability, updated Bluetooth 4.0 connectivity, upgraded CAN chip, support for 95% of vehicle models, compatibility with vehicles sold after 1996, ability to diagnose car problems, reliability, and features for quick and accurate repairs.

3. SETUP GUIDE

3.1 Initial Setup

Follow these steps to set up your iKiKin FA40 OBD2 Scanner:

1. Download the Application:

- For iOS devices: Download "Car Scanner" from the App Store.
- For Android devices: Download "Torque" from the Google Play Store.

2. Plug in the Device: Locate your vehicle's OBD2 port (typically under the dashboard) and firmly plug in the FA40

scanner. The device's power indicator light should illuminate.

3. **Start the Car:** Turn on your vehicle's ignition or start the engine.
4. **Turn on Bluetooth:** Ensure Bluetooth is enabled on your smartphone or tablet.
5. **Open the Application:** Launch the "Car Scanner" (iOS) or "Torque" (Android) app.
6. **Pairing within the App:** The Bluetooth pairing process for the FA40 is typically initiated within the diagnostic application itself, not through your phone's general Bluetooth settings (except for iOS, where you may need to go to Settings > Bluetooth first). Refer to the specific app's settings for connecting to an OBD2 adapter. The default passcode for pairing is often "1234" or "0000".

Automatic Connection & Easy to Operated

Turn Your Phone into a Professional-Grade Diagnostic Scan Tool Compatible with ios & Android & Windows

The advertisement features two smartphones. The left smartphone displays the 'Car Scanner' app interface with various diagnostic options like 'Dashboard', 'Live data', 'All sensors', 'Diagnostic trouble codes', 'Freeze frame', 'Noncontinuous Monitors', 'Map View', 'Statistics', 'ECU identifiers', 'Acceleration tests', 'Emission tests', 'OBD2 protocol', and 'ELM connection'. The right smartphone displays the 'TORQUE' app interface, showing 'Engine Management Diagnostics and Tools' for a 'Mustang' profile, with features like 'HOB2 CHECK Fault Codes', 'Realtime Information', and a tachometer reading '1,528.2 x1000.0 rpm'. In the foreground, a blue OBDII adapter is shown with 'LINK OBD POWER' and 'OBDII' labels. To the right, there are buttons for 'GRT IT ON Google play' and 'Download on the APP Store'. Below these are icons for Bluetooth, OBDII, and 'Free APP Functions'.

Figure 4: The FA40 scanner automatically connects and is easy to operate, turning your phone into a professional diagnostic scan tool compatible with iOS, Android, and Windows. Shows Google Play and App Store icons for app download.

QUICK SETUP GUIDE

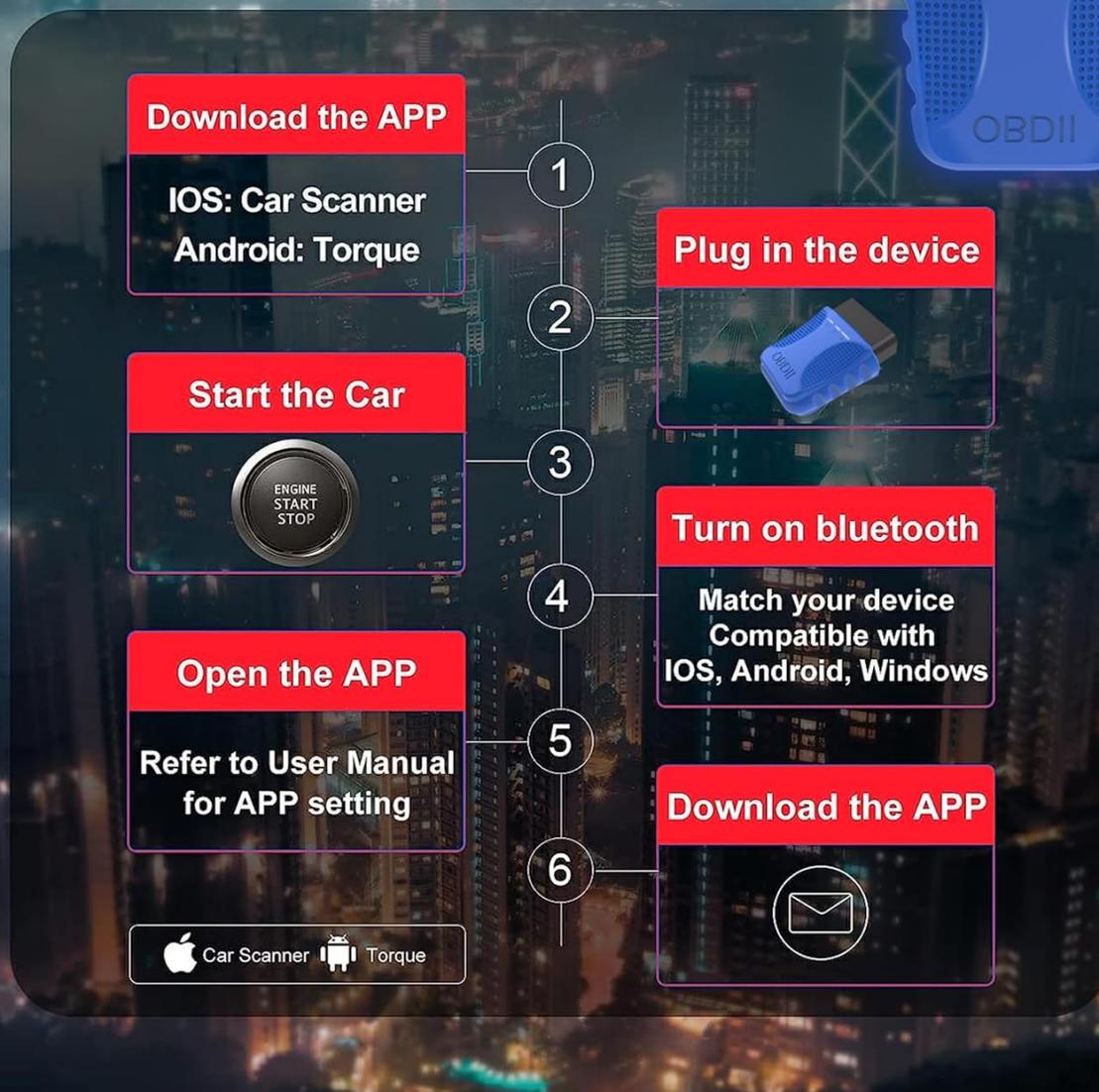


Figure 5: A visual quick setup guide illustrating the steps: Download the APP, Plug in the device, Start the Car, Turn on Bluetooth, Open the APP, and Refer to User Manual for APP setting.

4. OPERATING INSTRUCTIONS

4.1 Connecting to Your Vehicle

Once the FA40 is plugged into the OBD2 port and your vehicle's ignition is on, the device will establish a connection with your vehicle's onboard computer. The diagnostic application on your smartphone will then be able to access vehicle data.

4.2 Using the Diagnostic Application

The "Car Scanner" (iOS) or "Torque" (Android) applications provide a user-friendly interface to access various diagnostic functions:

- **Read/Clear Fault Codes:** View current, pending, and historic Diagnostic Trouble Codes (DTCs). The app provides definitions for these codes, helping you understand the issue. You can also clear the codes, which will turn off the Check Engine Light (MIL). Note that clearing codes does not fix the underlying problem.
- **Live Data Stream:** Monitor real-time data parameters from your vehicle's sensors, such as engine RPM, vehicle speed, coolant temperature, fuel system status, and more. This data can be displayed in various formats (text, graphs, gauges).
- **I/M Readiness Status:** Check the status of emission-related monitors to determine if your vehicle is ready for an emissions test.
- **Freeze Frame Data:** When a fault code is set, the vehicle's computer records a "snapshot" of sensor readings at that moment. This data can help diagnose the conditions under which the fault occurred.
- **O2 Sensor Test:** Access results of oxygen sensor monitoring tests.
- **On-Board Monitor Test:** Retrieve results for on-board diagnostic monitoring tests for specific components/systems.
- **Performance Test:** Utilize the app's performance features to measure acceleration times, top speed, and other dynamic vehicle parameters.
- **Battery Voltage Test:** Monitor your vehicle's battery voltage in real-time.

Multiple Service Functions



Diagnose & Turn off
Check Engine Light



O2 Sensor Test



I/M Readiness



On-Board Monitor Test



EVAP System Test



Read Codes



Freeze Frame



Live Data Stream

The Ideal Diagnostic
Tool for Car



Figure 6: The FA40 offers multiple service functions, including Diagnose & Turn off Check Engine Light, O2 Sensor Test, I/M Readiness, On-Board Monitor Test, EVAP System Test, Read Codes, Freeze Frame, and Live Data Stream.

4.3 Supported Protocols

The iKiKin FA40 supports a wide range of OBD2 protocols, ensuring compatibility with most vehicles manufactured after 1996 (in the US) and later in other regions:

Table 1: Supported OBD2 Protocols

Protocol	Description
SAE J1850 PWM	41.6 Kbaud
SAE J1850 VPW	10.4 Kbaud
ISO9141-2	5 baud init, 10.4 Kbaud
ISO14230-4 KWP	5 baud init, 10.4 Kbaud
ISO14230-4 KWP (fast init)	10.4 Kbaud
ISO15765-4 CAN	11bit ID, 500 Kbaud
ISO15765-4 CAN	29bit ID, 500 Kbaud
ISO15765-4 CAN	11bit ID, 250 Kbaud
ISO15765-4 CAN	29bit ID, 250 Kbaud

5. MAINTENANCE

To ensure the longevity and optimal performance of your iKiKin FA40 OBD2 Scanner, 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 exterior of the device. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Handling:** Handle the device with care. Avoid dropping it or subjecting it to strong impacts.
- **Connection Port:** Keep the OBD2 connector free from dust and debris.
- **Software Updates:** Regularly check for updates to your chosen diagnostic application (Car Scanner or Torque) to ensure compatibility and access to the latest features and vehicle databases.

6. TROUBLESHOOTING

If you encounter issues while using your iKiKin FA40 OBD2 Scanner, refer to the following common problems and solutions:

- **Device Not Powering On:**

- Ensure the FA40 is fully plugged into the vehicle's OBD2 port.
- Verify that the vehicle's ignition is on or the engine is running.
- Check your vehicle's fuse box for any blown fuses related to the OBD2 port (consult your vehicle's manual).

- **Bluetooth Pairing Issues:**

- For Android: Remember that pairing is typically done within the "Torque" app, not directly through Android's Bluetooth settings.
- For iOS: Go to Settings > Bluetooth and ensure the device is listed and connected.
- Ensure Bluetooth is enabled on your smartphone/tablet.
- Try restarting both the FA40 (by unplugging and replugging) and your smartphone/tablet.
- Confirm the correct pairing code (usually "1234" or "0000").

- **App Not Connecting to Vehicle/Reading Data:**

- Ensure the FA40 is successfully paired with your device via Bluetooth.
- Verify that the correct OBD2 adapter is selected within the diagnostic app's settings.
- Confirm your vehicle is OBD2 compliant (most vehicles after 1996 in the US).
- Some vehicles, particularly older models or specific makes (e.g., certain Ford/Lincoln models as per customer reviews), might have compatibility challenges with generic OBD2 scanners or specific chipsets.
- Try a different diagnostic app if available, though the recommended ones are "Car Scanner" (iOS) and "Torque" (Android).

- **Inaccurate Readings or Missing Data:**

- Ensure the app is up-to-date.
- Verify that your vehicle's ignition is on and the engine is running for live data.
- Some data parameters may not be supported by all vehicles or all diagnostic apps.

7. SPECIFICATIONS

Attribute	Detail
Model	FA40
Brand	iKiKin
Connectivity	Bluetooth 4.0
Supported Operating Systems	iOS, Android (not compatible with tablets)
Supported Protocols	SAE J1850 PWM, SAE J1850 VPW, ISO9141-2, ISO14230-4 KWP, ISO15765-4 CAN (various baud rates and ID types)
Item Weight	1.41 ounces
Package Dimensions	4.13 x 2.52 x 1.1 inches

Attribute	Detail
Manufacturer Part Number	FA40
Date First Available	June 26, 2023

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact iKiKin customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

For further assistance, you may also consult the support resources available within the "Car Scanner" or "Torque" applications, as they often provide extensive help sections and community forums.

Related Documents - FA40

	<p>Dyna-Glo Propane Construction Heater User Manual and Operating Instructions</p> <p>User's manual and operating instructions for Dyna-Glo propane construction heaters, detailing safety guidelines, installation, operation, maintenance, troubleshooting, and parts lists for various models.</p>
	<p>Disc Pad Buyers Guide: Comprehensive Compatibility Chart</p> <p>Find the perfect disc brake pads for your motorcycle or ATV with this comprehensive buyers guide. Features detailed compatibility information, OE numbers, and competitor cross-references for various makes and models.</p>