

thinkcar TK672

Thinkscan 672 OBD2 Scanner Diagnostic Tool User Manual

Model: TK672 | Brand: thinkcar

1. INTRODUCTION

The Thinkscan 672 is a comprehensive bidirectional scan tool designed for automotive diagnostics. It offers full system OE-level diagnostics, active testing capabilities, and 28 essential reset services. This tool is compatible with a wide range of vehicle brands and supports modern protocols like CANFD, ensuring accurate and efficient vehicle maintenance and repair.

Key features include a 7-inch widescreen display, robust processing power, ample storage, and versatile connectivity options such as dual-band WiFi and Bluetooth 5.0. The device also benefits from free lifetime software updates and dedicated online customer support.

2. PRODUCT COMPONENTS

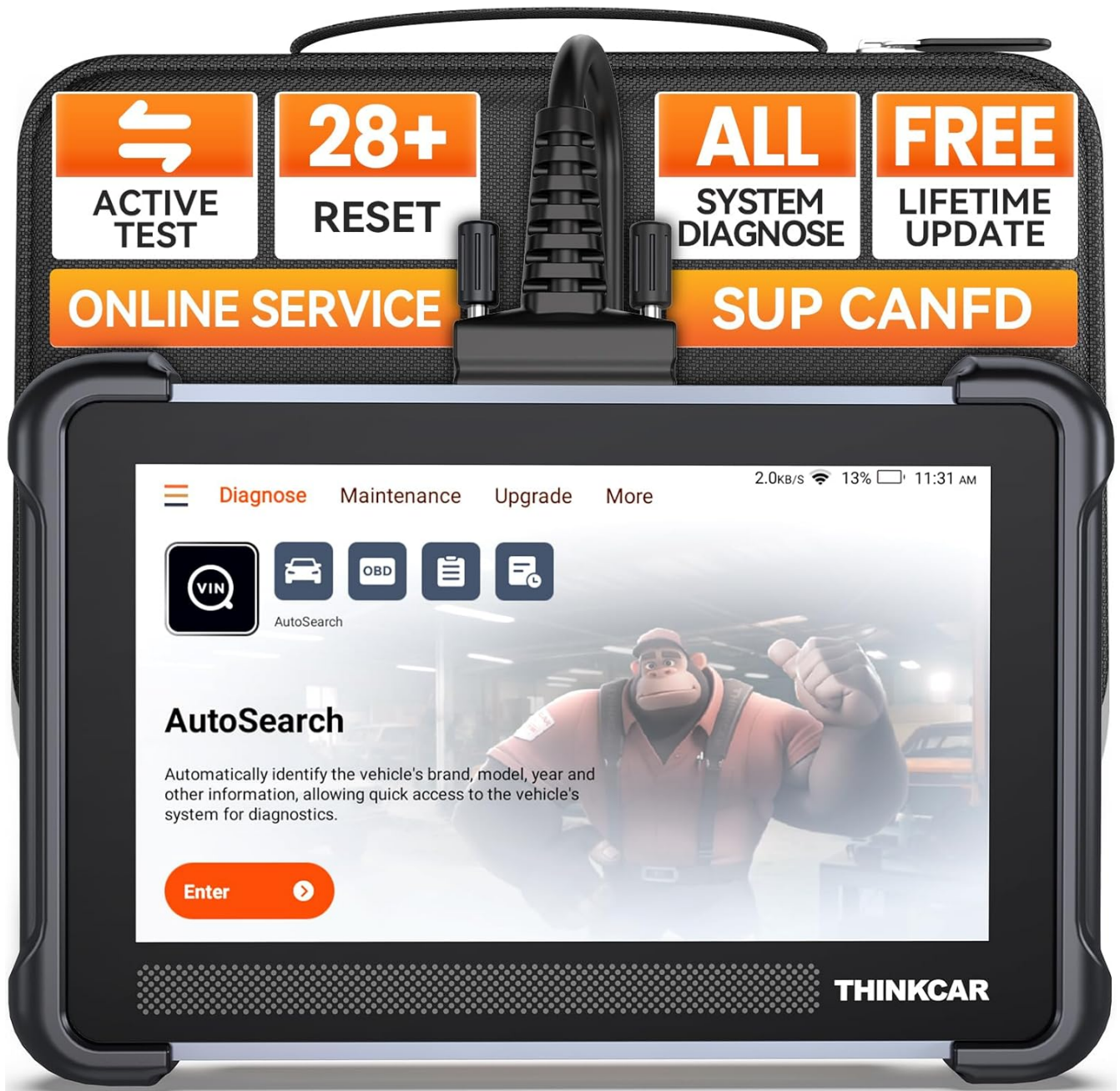


Figure 2.1: The Thinkscan 672 OBD2 Scanner, shown with its carrying case and diagnostic cable. This image highlights the device's compact design and included accessories.



Figure 2.2: A visual representation of the Thinkscan 672 package contents, including the main unit, DB15 diagnostic cable, Type-C cable, 3-in-1 power adapter, quick start guide, carton, and packing box.

Package Contents:

- Thinkscan 672 Tool
- DB15 Diagnostic Cable (1.2-meter detachable)
- Type-C Cable
- 3-in-1 Power Adapter
- Quick Start Guide
- Carton
- Packing Box

3. SETUP

To begin using your Thinkscan 672, follow these steps:

1. **Charging the Device:** Connect the Thinkscan 672 to the provided 3-in-1 power adapter using the Type-C cable. Ensure the device is fully charged before initial use for optimal performance.
2. **Power On:** Press and hold the power button located on the device until the screen illuminates.
3. **Initial Setup:** Upon first power-on, the device will guide you through a quick setup process. This typically involves selecting your preferred language and connecting to a Wi-Fi network. The device supports dual-band Wi-Fi (2.4G/5G).
4. **Software Updates:** It is highly recommended to perform a software update immediately after connecting to Wi-Fi. The Thinkscan 672 offers free lifetime software updates to ensure compatibility with the latest vehicle models and diagnostic features.
5. **Connecting to Vehicle:** Locate your vehicle's OBDII port (usually under the dashboard). Connect the DB15 diagnostic cable from the Thinkscan 672 to the vehicle's OBDII port.

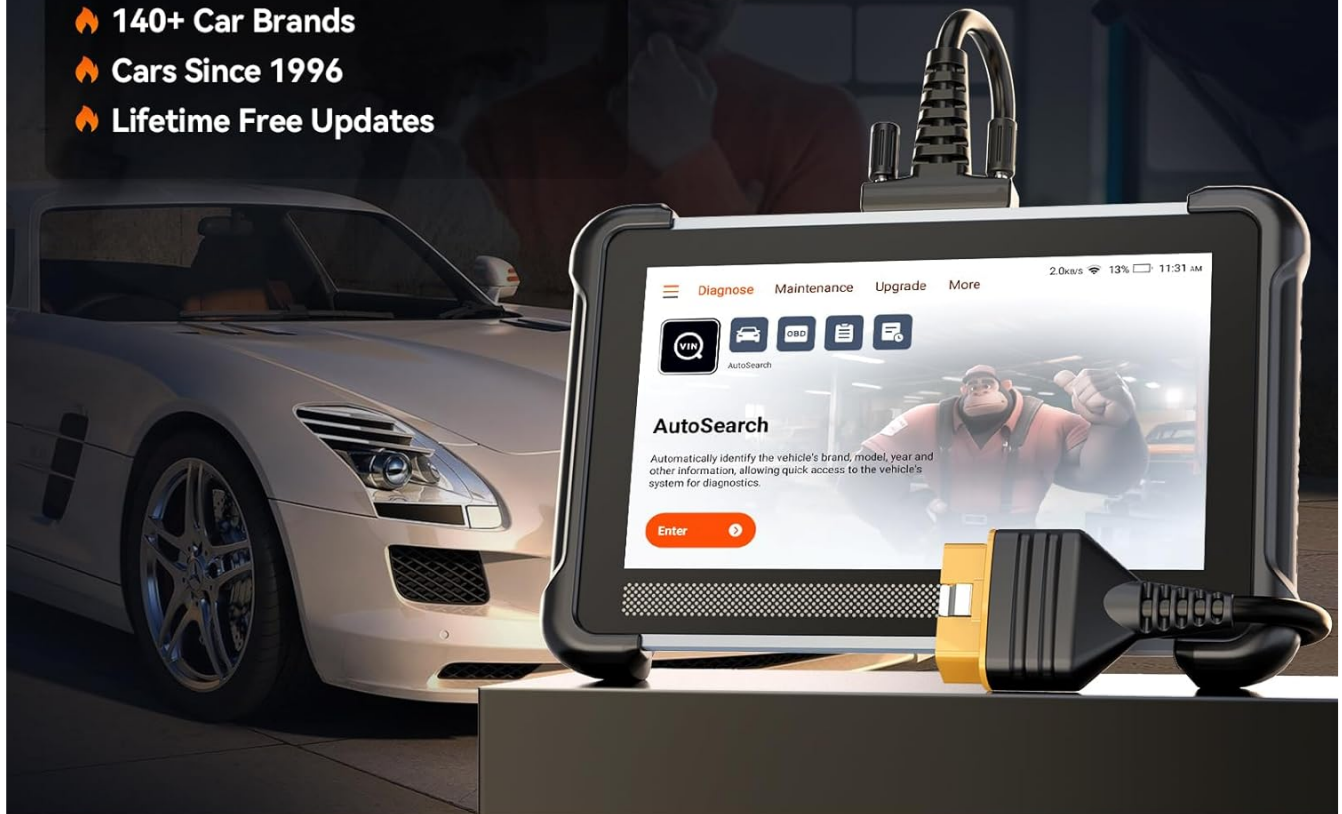
NEWEST THINKSCAN 672

- 🔥 Upgraded Diagnostic Tool
- 🔥 Supports The New CANFD Protocol
- 🔥 140+ Car Brands
- 🔥 Cars Since 1996
- 🔥 Lifetime Free Updates

↔️
ACTIVE TEST

28+
RESET

FULL
SYSTEM DIAGNOSTICS



Cortex-A53



2G/32G



7 inches 1024*600



WIFI



TYPE-C



Bluetooth

Figure 3.1: The Thinkscan 672 connected to a vehicle's OBDII port, illustrating the physical connection required for diagnostics.

LIFETIME FREE



Figure 3.2: The device screen displaying the "Lifetime Free" update feature, emphasizing the ongoing support for the tool.

4. OPERATING INSTRUCTIONS

4.1. Full System OE-Level Diagnostics

The Thinkscan 672 provides comprehensive diagnostics for all vehicle systems. This includes, but is not limited to, the Engine Control Module (ECM), Anti-lock Braking System (ABS), Airbags, Steering Angle Sensor (SAS), Evaporative Emission Control System (EVAP), Tire Pressure Monitoring System (TPMS), Battery Management System (BMS), and Electronic Parking Brake (EPB).

- **Read/Clear Codes:** Access and clear diagnostic trouble codes (DTCs) from various vehicle modules.
- **Live Data Stream:** View real-time data parameters from the vehicle's sensors and modules in text, graph, or merged graph formats.
- **Auto-VIN:** Automatically identify vehicle information for quick and accurate system access.
- **Diagnostic Report:** Generate detailed diagnostic reports that can be saved or shared via Wi-Fi.



Figure 4.1.1: An illustration detailing the various vehicle systems the Thinkscan 672 can diagnose, including ABS, Engine, Airbag, Transmission, and more.



Figure 4.1.2: The device's interface showing its data graphing capabilities, including live data, recorded data, playback, and report sharing/printing options.

4.2. Bidirectional Control (Active Test)

The bidirectional control feature allows the user to send commands directly to the vehicle's Electronic Control Unit (ECU) to perform active tests on various components. This helps in quickly identifying faulty parts without manual disassembly.

- **Supported Tests:** Injector tests, coolant pump activation, window up/down, wiper activation, headlight control, mirror adjustments, horn activation, and more.
- **Procedure:** Navigate to the "Active Test" menu, select the desired component, and follow the on-screen prompts to initiate the test.

FULL SYSTEM OE-LEVEL DIAGNOSTIC TOOL



Figure 4.2.1: A visual representation of the bidirectional control function, demonstrating the ability to send commands to vehicle components for active testing.

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Video 4.2.1: This video demonstrates how to use the action test feature on the TK672, showcasing its bidirectional control capabilities for various vehicle components.

4.3. Reset Services

The Thinkscan 672 offers 28 essential reset services to address common maintenance needs. Each function includes intuitive pop-up guidance for ease of use.

Table 4.3.1: Common Reset Services

Service	Description
Oil Reset	Resets the engine oil life system after an oil change.
I.M.M.O Reset	Performs immobilizer matching/programming.

Service	Description
D.P.F Reset	Resets the Diesel Particulate Filter system.
SAS Calibration	Calibrates the Steering Angle Sensor.
ABS Bleeding	Performs ABS brake bleeding to restore brake sensitivity.
Injector Coding	Codes new injector numbers to the ECU.
AFS Reset	Resets the Adaptive Front-lighting System.
TPMS Reset	Resets the Tire Pressure Monitoring System.
EPB Reset	Resets the Electronic Parking Brake system.
Throttle Adaptation	Initializes the throttle actuator to the default state.

SUPPORTS MORE THAN 10,000+ CARS & 140+ CAR BRANDS

Suitable for all OBD2 models since 1996

ISO 14230-4
(KWP2000)

ISO 15765-4
(CAN)

ISO 9141-2
(ISO)

ISO 14229
(UDS)

SAEJ 1850
(VPW&PWM)

SUPPORT CANFD PROTOCOL

CAN-FD: SUPPORTS NEWER 2021-2024 Vehicle MODELS



Figure 4.3.1: The device screen showing icons for various reset services, including Oil Reset, IMMO Reset, DPF Reset, and more.

4.4. OBDII/EOBD Functions

The Thinkscan 672 supports all 10 modes of OBDII/EOBD tests, providing comprehensive diagnostic capabilities for emission-related issues.

- **Read Codes:** Retrieve generic (P0, P2, P3, and U0) and manufacturer specific (P1, P3, and U1) codes.
- **Clear Codes:** Clear Diagnostic Trouble Codes (DTCs) and reset monitors.
- **Live Data:** Display real-time data of the vehicle's sensors and components.
- **Freeze Frame Data:** View the vehicle's operating conditions at the time an emission-related fault occurred.
- **I/M Readiness:** Check the readiness of the emission monitoring system.
- **O2 Sensor Test:** Retrieve O2 sensor monitor test results.
- **On-Board Monitor Test:** Retrieve results for emission-related powertrain components and systems.
- **Component Test:** Allow initiation of a leak test for the vehicle's EVAP system.
- **Vehicle Information:** Retrieve the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).

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Video 4.4.1: This video provides a demonstration on how to use the OBD functions with the TK672, covering basic diagnostic procedures.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Thinkscan 672 diagnostic tool.

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents that may damage the screen or casing.
- **Storage:** Store the device in its original carrying case in a cool, dry place when not in use. Avoid extreme temperatures and direct sunlight.
- **Cable Care:** Handle the diagnostic cable with care. Do not bend or crimp the cable excessively, as this can damage the internal wiring.
- **Software Updates:** Regularly check for and install software updates. These updates often include new vehicle models, bug fixes, and performance enhancements. The device offers free lifetime updates.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. If storing for an extended period, charge the battery to about 50% every few months.

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Video 5.1: This video illustrates the process of updating the system software on the TK672, highlighting the ease of maintaining the device with lifetime free updates.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Thinkscan 672.

Table 6.1: Troubleshooting Guide

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	Low battery; faulty power adapter/cable.	Ensure the device is fully charged. Try a different power outlet or cable if available.
Cannot connect to vehicle.	Loose cable connection; vehicle ignition off; incompatible vehicle protocol.	Check that the diagnostic cable is securely connected to both the device and the vehicle's OBDII port. Ensure vehicle ignition is ON. Verify vehicle compatibility (OBDII compliant, post-1996).
Diagnostic functions not working.	Software glitch; outdated software; vehicle communication error.	Restart the device and the vehicle. Perform a software update. Check vehicle's battery voltage.
Wi-Fi connection issues.	Incorrect password; out of range; router issues.	Verify Wi-Fi password. Move closer to the Wi-Fi router. Restart the router.

If you encounter issues not listed here or require further assistance, please refer to the support section.

7. SPECIFICATIONS

Table 7.1: Technical Specifications

Feature	Detail
CPU	MT8365, 2.0GHz Cortex-A53 Quad-core processor
ROM	32GB
Display	7-inch widescreen (1024x600 resolution)
Connectivity	TYPE-C charging port, USB 2.0, Dual-band WiFi (2.4G/5G), Bluetooth 5.0
Battery	3150mAh/3.8V
Diagnostic Cable	1.2-meter detachable DB15
Operating System	Android 10.0
Supported Protocols	CANFD (SGM, GM, CHRYSLER), OBDII, EOBD, ISO 14230-4 (KWP2000), ISO 15765-4 (CAN), ISO 9141-2 (ISO), ISO 14229 (UDS), SAEJ 1850 (VPW & PWM)
Supported Vehicle Brands	140+ brands (OBDII vehicles post-1996)
Item Weight	3.03 pounds
Package Dimensions	10.98 x 7.44 x 4.25 inches

BETTER USER EXPERIENCE

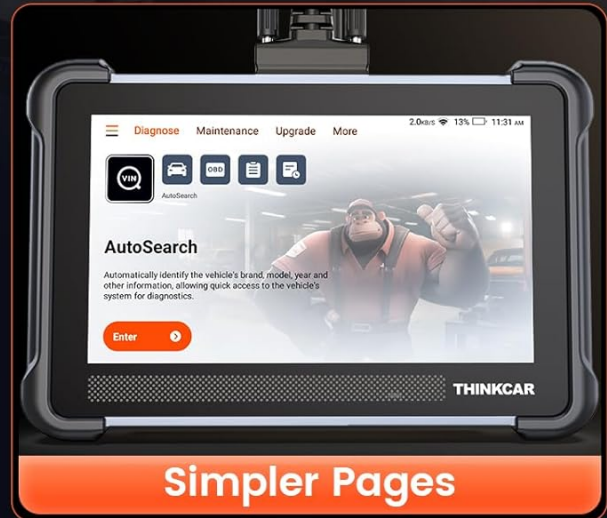



Figure 7.1: A summary of the Thinkscan 672's core specifications, highlighting its internal components and connectivity features.

THINKSCAN SERIES



PRODUCT NAME	672	689	689BT
SYSTEM	Full system	Full system	Full system
RESET	28+	34+	34+
BIDIRECTIONAL	✓	✓	✓
UPGRADE	Lifetime Free	Lifetime Free	Lifetime Free
CANFD	✓	✓	✓
ECU CODING	no	✓	✓
CONNECTION	wired	wired	Bluetooth wireless
SCREEN SIZE	7 inches	8 inches	8 inches

Figure 7.2: An overview of the Thinkscan 672's compatibility with different OBD2 protocols and its support for over 140 car brands, including CANFD for newer models.

8. WARRANTY AND SUPPORT

8.1. Lifetime Free Software Updates

The Thinkscan 672 comes with a commitment to free lifetime software updates. This ensures your diagnostic tool remains current with the latest vehicle technologies and diagnostic procedures without additional costs.

8.2. Online Customer Support

For technical assistance or inquiries, Thinkcar provides QR code-based online customer support. You can access support directly from your smartphone by scanning the QR code displayed on the device or in the quick start guide. This allows for convenient and quick resolution of any issues.

MORE FRIENDLY IM FUNCTIONS

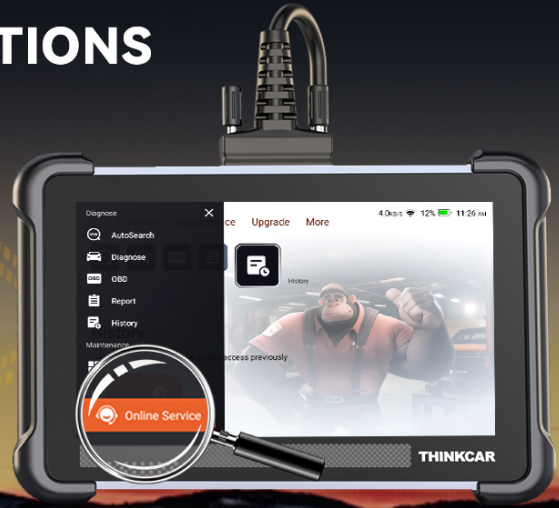
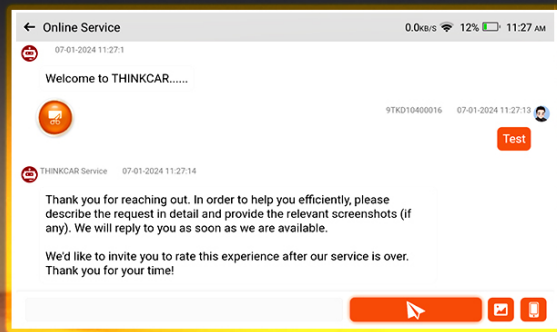


Figure 8.2.1: The device interface demonstrating the online service feature, allowing users to chat with customer support for assistance.

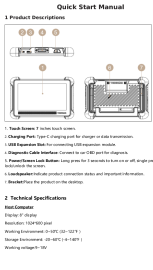
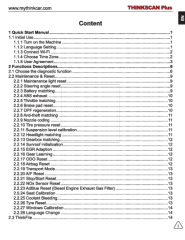
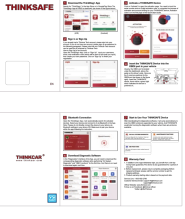
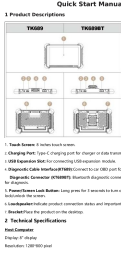
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Video 8.2.1: This video explains how to operate the remote assistance feature on the TK672, providing a direct channel for technical support.

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Related Documents - TK672

	<p>THINKSCAN 662 Quick Start Manual</p> <p>A quick start guide for the THINKSCAN 662, an intelligent diagnostic device powered by Android 8.1. This manual covers product overview, components, technical specifications, usage instructions, function descriptions, Q&A, and warranty terms.</p>
	<p>THINKSCAN Plus User Manual and Guide</p> <p>This document provides a comprehensive guide to the THINKSCAN Plus diagnostic tool, covering quick start, functions, Q&A, and warranty information. It details various maintenance and reset functions, diagnostic procedures, and system settings for automotive technicians.</p>

	<p>THINKCAR THINKSCAN Quick Start Manual: Features, Usage, and Specifications</p> <p>Comprehensive quick start guide for the THINKCAR THINKSCAN diagnostic tool. Learn about product features, technical specifications, how to use it for vehicle diagnosis, maintenance, upgrades, and access support.</p>
	<p>THINKSCAN Plus User Manual and Quick Start Guide</p> <p>This document provides a comprehensive user manual and quick start guide for the THINKSCAN Plus diagnostic tool, covering initial setup, functions, maintenance resets, Q&A, and warranty information.</p>
	<p>ThinkSAFE Device Quick Start Guide</p> <p>A guide to downloading the ThinkDiag+ app, signing up or signing in, activating the ThinkSAFE device, connecting via Bluetooth, downloading diagnostic software, and understanding the warranty information.</p>
	<p>THINKCAR TK689 TK689BT Quick Start Manual: OBD2 Diagnostic Tool Guide</p> <p>Explore the THINKCAR TK689 and TK689BT Quick Start Manual, a comprehensive guide for these advanced OBD2 diagnostic tools. Learn about product features, technical specifications, setup, Wi-Fi connectivity, and detailed function descriptions including full system diagnosis, maintenance resets, software upgrades, and troubleshooting FAQs. Optimize your vehicle diagnostics with THINKCAR's professional automotive scanner.</p>