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thinkcar 689BT

# THINKCAR THINKSCAN 689BT Bidirectional OBD2 Scanner User Manual

Model: 689BT | Brand: thinkcar

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## 1. INTRODUCTION

The THINKCAR THINKSCAN 689BT is a comprehensive bidirectional OBD2 diagnostic scanner designed for automotive maintenance and fault diagnosis. This device integrates advanced features such as full system diagnostics, over 3000 active tests, 34 service functions, and support for modern vehicle protocols like CAN FD and DoIP. It also includes an endoscope camera for visual inspection of hard-to-reach areas, making it a versatile tool for both professional mechanics and DIY enthusiasts.

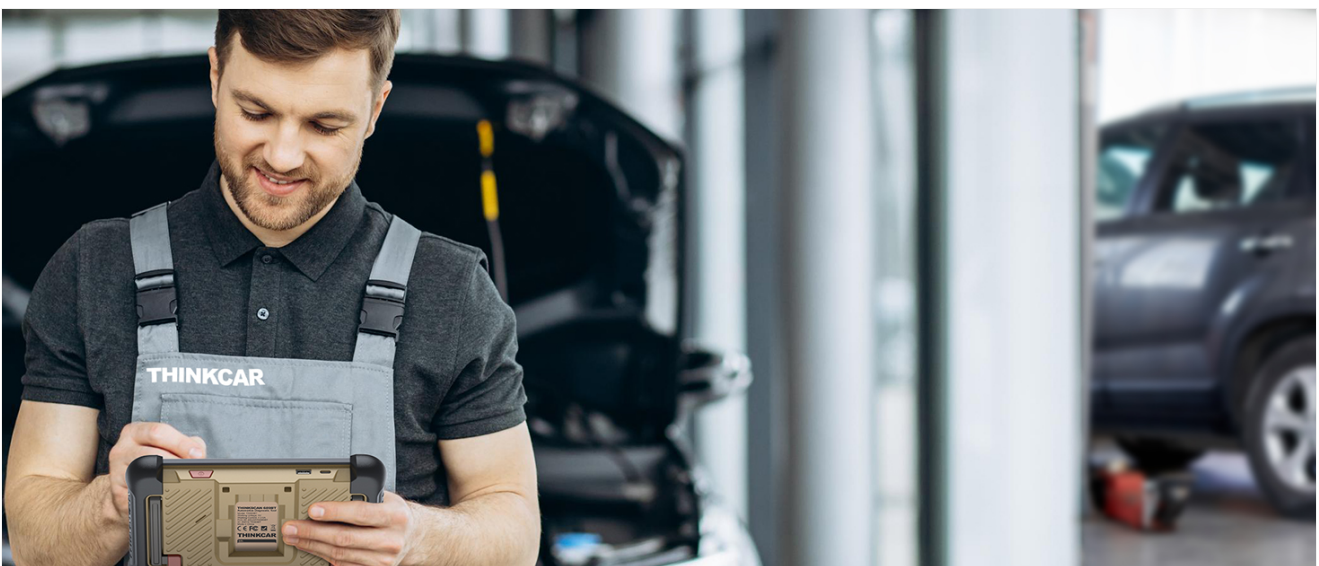


Image 1.1: The THINKSCAN 689BT OBD2 Scanner and Endoscope Kit, highlighting its key features.

## 2. WHAT'S IN THE BOX

Verify that all components are present in the package:

- THINKSCAN 689BT Car Scanner (Host Device) x1
- TES102 Endoscope Camera with Light x1
- 689BT Tempered Glass Screen Protector x2
- Gateway Accessory Kit x1
- F-Chassis Adaptor (FCA SGW 12+8 Bypass Cable) x1
- RJ45 Network Cable x1
- USB2.0 to 10/100M Network Cable x1
- Charging Cable (USB Type-C) x1
- 3-in-1 Charger (Matched with U.S., U.K. and European plugs) x1
- Quick Start Manual x1
- Packing List x1



Image 2.1: A detailed view of the components included in the THINKSCAN 689BT package.

## 3. SETUP

### 3.1 Initial Device Power-On

1. Ensure the device is fully charged using the provided charging cable and 3-in-1 charger.
2. Press and hold the power button to turn on the THINKSCAN 689BT.
3. Follow the on-screen prompts for initial language and network setup.

### 3.2 Connecting the TES102 Endoscope

1. Locate the USB port on the THINKSCAN 689BT device.
2. Connect the TES102 Endoscope's USB connector to the device's USB port.
3. The device should automatically detect the endoscope. Access the endoscope function through the device's menu (typically under 'Module' or 'Videoscope').

# EASY ENTRY INTO HARD-TO-REACH AREAS

One Click to Take Pictures or Videos



Image 3.1: Connecting and using the TES102 endoscope camera for vehicle inspection.

## 4. OPERATING INSTRUCTIONS

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### 4.1 General Navigation

The THINKSCAN 689BT features an intuitive interface. Navigate through menus using the touchscreen. Key functions are typically found under 'Diagnose', 'Maintenance', 'Upgrade', and 'More' sections.

### 4.2 OE Level All Systems Diagnostic

This function allows access to all available vehicle systems (e.g., Engine, Transmission, ABS, TPMS, Battery, SRS) to read and clear diagnostic trouble codes (DTCs). It also displays real-time data from sensors, valves, and RPM in text, graphical, or analog formats, which can be saved as reports.

- From the main menu, select **Diagnose**.
- Choose the vehicle make and model.
- Select **System Scan** or choose a specific system for diagnosis.
- Options include **Read Codes**, **Clear Codes**, and **Live Data**.

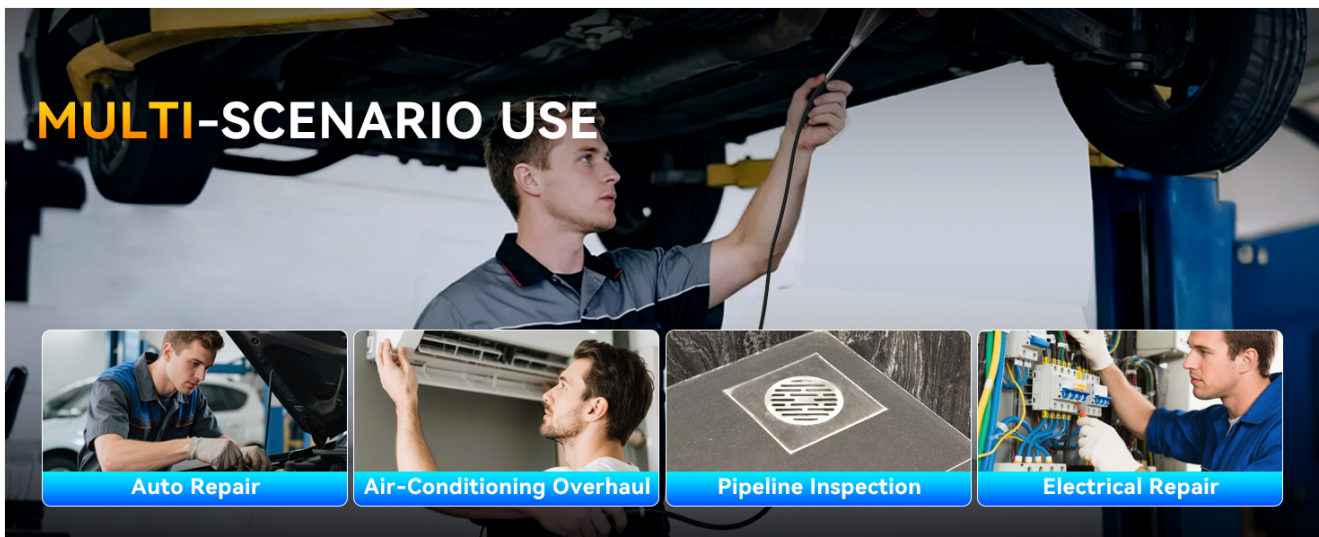


Image 4.1: The device interface displaying an OE Level All Systems Diagnostic scan.

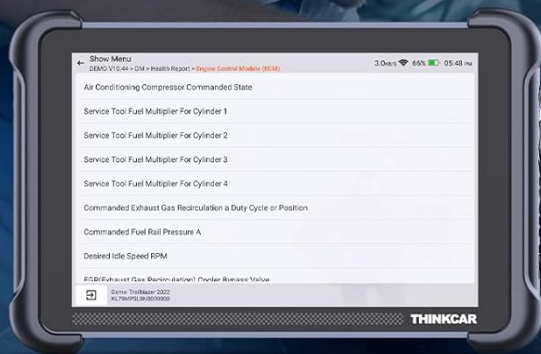
### 4.3 Bidirectional Controls and Active Tests

The bidirectional control feature allows the scanner to send command signals to vehicle sub-systems or components, enabling active testing without using the vehicle's controls. This is useful for verifying component functionality and pinpointing faults.

- Access this function via **Diagnose > Car Model > System > Active Test**
- Examples of active tests include: EVAP Test, Fuel Trim Reset, Injector Buzz Test, Window/Mirror/Door Lock Test, Pump and Valve Tests, Radiator Fan activation, Exterior Lights activation, and more.

# FULL BI-DIRECTIONAL CONTROLS

(Active Tests)



Exterior Lights



Activate Fuel Pump



Windows Up/Down

- Radiator Fan
- EVAP Test
- ACC Lkas
- ACM Solenoid
- Brake Vacuum
- Injector Testing
- Left Clutch Elec. Coil
- Acceleration Device
- Oil Pressure Control
- Inlet & Outlet Valve
- ABS Autobleed
- Wheel Speed Sensor
- Modulate Throttle
- Injector Buzz
- Cycle A/C
- Clutch On/Off
- Mirror Fold/Unfold
- More...

Image 4.2: Visual representation of bidirectional control functionality and various active test options.

## 4.4 Special Functions (34+ Services)

The THINKSCAN 689BT supports over 34 maintenance and reset services, including but not limited to Oil Reset, EPB Reset, SAS Reset, BMS Reset, ABS Bleeding, Injector Coding, DPF Regeneration, and TPMS Reset. These functions assist in routine maintenance and post-repair procedures.

- Navigate to the **Maintenance** section from the main menu.
- Select the desired service function and follow the on-screen instructions.

## 4.5 Endoscope Camera Operation

The TES102 endoscope camera provides clear visuals for inspecting engine components, internal structures, or other hard-to-reach areas. It features a 5.5mm probe, 2-megapixel HD sensor, and six adjustable LED lights for optimal illumination.

- After connecting the endoscope (as per Section 3.2), open the 'Videoscope' application on the THINKSCAN 689BT.
- Adjust the LED light intensity using the controls on the endoscope handle.

- Use the camera to capture images or record videos of the inspection area.



Image 4.3: The TES102 endoscope camera's probe with adjustable LED lighting for clear visibility.

#### 4.6 FCA AutoAuth

For 2018+ FCA vehicles, the THINKSCAN 689BT supports FCA AutoAuth. This requires users to register for an FCA account and pay a membership fee to perform relevant automotive diagnostics. The 689BT provides the login and purchase portal but does not charge any fees for the AutoAuth service itself.

#### 4.7 Vehicle Coverage and Protocols

The device supports over 140 worldwide car brands, including passenger cars, 12V pickups, hybrid vehicles, and SUVs. It is compatible with advanced communication protocols such as CAN FD and DoIP, which enable faster data communication.

### 5. MAINTENANCE

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#### 5.1 Wireless Updates

The THINKSCAN 689BT offers lifetime free updates. Connect the device to a Wi-Fi network and navigate to the 'Upgrade' section to check for and install the latest software and vehicle database updates.

## 5.2 Screen Protector Application

Two tempered glass screen protectors are included to protect the device's display. Clean the screen thoroughly before applying the protector to ensure a bubble-free installation.

## 6. SPECIFICATIONS

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Feature	Detail
Model Name	689BT
Brand	thinkcar
Screen Size	8 Inches
Video Capture Resolution	1080p
Endoscope Camera Sensor	2-megapixel HD
Endoscope Probe Diameter	5.5mm
Endoscope Lights	6 Super Bright LED Lights
Hardware Interface	USB
Supported Protocols	CAN FD, DoIP, ISO 14230-4 KWP, ISO 15765-4 CAN, ISO 9141-2 ISO, SAE J1850 VPM, SAE J1850 PWM
Supported Languages	28 languages
Color	Black
File Format	JPEG, MP4

## 7. WARRANTY & SUPPORT

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### 7.1 Warranty Information

The THINKSCAN 689BT comes with a 12-month warranty from the date of purchase. Please retain your proof of purchase for warranty claims.

### 7.2 Customer Support

For any inquiries, technical support, or assistance with your THINKSCAN 689BT, please contact us via Amazon's "Messages" feature. Our support team aims to provide a solution within 24 hours.