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› ThinkScan 689BT OBD2 Diagnostic Tool User Manual

thinkcar ThinkScan 689BT

ThinkScan 689BT OBD2 Diagnostic Tool User Manual

Comprehensive Vehicle Diagnostics for Professionals and Enthusiasts

1. INTRODUCTION

The ThinkScan 689BT is a professional-grade OBD2 diagnostic tool designed for comprehensive vehicle analysis. It features an 8-inch HD touchscreen, runs on Android 10, and offers advanced functionalities such as full system diagnosis, bi-directional control, ECU coding, and over 34 reset functions. This manual provides detailed instructions for setting up, operating, and maintaining your device to ensure optimal performance and accurate vehicle diagnostics.

2. SETUP AND INITIAL CONFIGURATION

2.1 Unboxing and Device Overview

Carefully remove all components from the packaging. The main unit is the 8-inch tablet, accompanied by the Bluetooth BT5.0 Diag Mini2 Dongle and necessary cables. Familiarize yourself with the device's ports and buttons.



Figure 2.1: ThinkScan 689BT main unit with the Bluetooth dongle.

2.2 Charging the Device

Before first use, ensure the device is fully charged using the provided power adapter. The 4150mAh battery provides over 12 hours of operation.

2.3 Connecting the Bluetooth Dongle

Plug the Bluetooth BT5.0 Diag Mini2 Dongle into your vehicle's OBD2 port. The dongle will establish a wireless connection with the ThinkScan 689BT tablet, allowing for diagnostics within a 35ft (12m) range.

2.4 Initial Software Setup and Updates

Upon first power-on, follow the on-screen prompts to configure language settings and Wi-Fi connection. Connect to a stable Wi-Fi network (2.4GHz & 5GHz supported) to download the latest software updates. The device offers lifetime free updates, ensuring access to the newest vehicle models and diagnostic features.

3. OPERATING INSTRUCTIONS

3.1 Full System Diagnosis

The ThinkScan 689BT can access all available electronic control modules (ECMs) in a vehicle, including Engine, Transmission, ABS, Airbag, TPMS, and more. This allows for comprehensive fault code reading, live data streaming, and ECU information retrieval.

THINKCAR THINKSCAN 689BT

Umfassende Werkzeuge für Heimwerker und Autowerkstätten

MINI/MAX Aufrüstung

- THINKDIAG MINI BT5.0 Anschluss der Zweiten Generation
- DoIP- und CAN-FD-Protokolle
- Kostenlose Lebenslange Aktualisierungen

Bestes Preis-Leistungs-Verhältnis

- BI-Direktionale Steuerung
- 3000+ Aktives Testen
- 34+ Reset-Funktion
- 100+ Erweiterte Funktionen
- Online/Offline-Kodierung
- Vollständige Systemdiagnose
- Volle OBD2-Funktionalität
- Schlüsselcodierung
- AutoScan & AutoVIN

Globale Version Für Mehr Reichweite

- Abdeckung von 10000+ Fahrzeugen>140+ Automarken
- 28+ Sprachen, keine IP-Beschränkungen
- 1996~2024 Unterstützung für Automodelle
- AutoAuth für 2017 und Spätere FCA
- Renault SGW Access
- Online-Fahrzeugkompatibilität (IM-GPT)



The image shows a ThinkScan 689BT diagnostic tool connected to a vehicle. The device has a large 8-inch touchscreen displaying a user interface with various diagnostic modules. A black carrying case is visible next to the device.

KOSTENLOSE LEBENSLANGE UPDATES

 Android 10 Läuft 5x schneller (Quard-Core)	 8-Zoll Touchscreen	 4G+64G RAM+ROM
 2.4&5GHz WLAN	 10M BT5.0 Verbindung	...

Figure 3.1: Example of a full system diagnosis scan displaying various modules.

To perform a full system diagnosis:

1. Connect the Bluetooth dongle to the vehicle's OBD2 port.
2. On the tablet, select "Diagnose" from the main menu.
3. Choose "Auto VIN" for automatic vehicle identification or manually select the vehicle type.
4. Select "Health Report" or "System Scan" to initiate a comprehensive scan of all available systems.
5. Review the displayed fault codes (DTCs) and system statuses.

3.2 Live Data Stream

Erweiterte ECU-Codierung

- VIN in ECU schreiben
- ECU-Koordination aktualisieren
- Verbessert die Kraftstoffeffizienz
- Schnelles Umlernen des Getriebes
- Reduziert Leistungsverluste
- Erhöht die Lebensdauer der mechanischen Teile

Verborgene Funktionen aktualisieren

Adaptive Daten Zurücksetzen

Umkodierung der geänderten Module

Optimierung der Fahrzeuleistung

To view live data:

- ### 3.3 Bi-directional Control (Active Testing)

This function allows the diagnostic tool to send commands directly to vehicle components to test their functionality. This helps in quickly pinpointing faulty parts without disassembling the vehicle.

Bi-Direktionale Steuerung

(Aktives Testen)



Steuerung der Beleuchtung



Aktivieren Sie die Kraftstoffpumpe



Fensterheber Kalibrierung

- Kühlgebläse
- EVAP Prüfung
- Ausschalten des ACC-Spurhalteassistenten (LKAS)
- ACM-Solenoid vorne und hinten ein- und ausschalten
- Bremsvakuumpumpe
- Test der Einspritzdüsen
- Magnetspulentest der linken Kupplung
- Beschleunigungsvorrichtungstest
- Öldruckkontrolle
- Einlass- und Auslassventiltests
- Automatischer ABS-Auspuff
- Raddrehzahlsensor Versorgung
- Modulieren der Drosselklappe
- Test der Einspritzdüsen
- Umluft-Klimagerät
- Öffnen und Schließen der Kupplung
- Steuerung des Rückspiegels
- Mehr...

Figure 3.3: Examples of bi-directional control, such as activating lights or fuel pump.

Common active tests include:

- Coolant pump activation
- Window up/down control
- Lighting control
- Fuel pump on/off
- Injector tests

To perform active tests, navigate to **Diagnosis > Vehicle Models > System > Active Test**. Note that available functions vary by vehicle model and year.

Your browser does not support the video tag.

Video 3.1: Demonstration of the ThinkScan 689BT's bi-directional control and system diagnosis capabilities.

3.4 ECU Coding

ECU coding allows for customization of vehicle settings, activation of hidden features, or deactivation of unwanted functions. It is also used to program adaptive data for specific components after repairs or replacements.

Vollständige Systemdiagnose Auto VIN & Scan

- 10M-Funkdiagnose ohne Kabelbegrenzung
- Fahrzeug-Identifikationsnummer automatisch in Sekundenschnelle erkennen
- Automatisches Scannen aller Systeme
- Schnell und Präzise
- Freeze Frame Daten
- ECU-Informationen
- Aktives Testen
- Besondere Funktion

DTC Lesen/Löschen

Modulweite Echtzeitdaten

Bericht Drucken/Freigeben

Figure 3.4: Visual representation of ECU coding processes.

Examples of ECU coding applications:

- Changing interior lighting color
- Activating/deactivating auto-hold function
- Customizing dashboard display
- Disabling automatic start/stop

Note: ECU coding functions vary significantly by vehicle make, model, and year. Always ensure you understand the implications before making changes.

3.5 Reset Functions (34+)

The ThinkScan 689BT supports over 34 common maintenance and reset functions, enabling users to perform various service

34+ Reset-Funktion



100+ WARTUNGSDIENSTE

- ABS-Entlüftung
- Schiebedach Zurücksetzen
- Kalibrierung der Sitzbelegung
- AFS-Scheinwerfer-Reset
- Getrieberad Lernen
- Luftfederung
- Getriebeanpassung
- Transportmodus
- Stopp/Start-Reset
- Mehr...
- Injektor-Codierung



HINWEIS: Alle Funktionen variieren je nach Fahrzeugmodell und -jahr

Mehr Erhalten: >>

1.Diagnose >>

2.Automodelle >>

3.System >>

4.Besondere Funktion

Figure 3.5: Icons representing various reset functions available on the device.

Key reset functions include:

- **Oil Lamp Reset:** Resets the oil service light after an oil change.
- **EPB (Electronic Parking Brake) Reset:** Resets brake pads after replacement.
- **BMS (Battery Management System) Reset:** Registers new battery replacement.
- **SAS (Steering Angle Sensor) Reset:** Calibrates the steering angle sensor.
- **ABS Bleeding:** Bleeds the brake system to restore ABS sensitivity.
- **Injector Coding:** Codes new injector parameters into the ECU.
- **DPF (Diesel Particulate Filter) Regeneration:** Initiates DPF regeneration process.
- **TPMS (Tire Pressure Monitoring System) Reset:** Resets tire pressure sensors.
- **ETS (Electronic Throttle System) Reset:** Clears adaptive values for the throttle body.

Access these functions via the "Maintenance" section on the device. Always refer to your vehicle's service manual for specific

procedures.

3.6 OBD2 10 Modes

The ThinkScan 689BT supports all 10 modes of the OBDII standard, providing comprehensive engine and emission-related diagnostics:

1. **Read Codes:** Retrieves Diagnostic Trouble Codes (DTCs).
2. **Erase Codes:** Clears DTCs and turns off the Check Engine Light.
3. **I/M Readiness:** Checks the readiness of emission-related monitors.
4. **Live Data:** Displays real-time data from vehicle sensors.
5. **Freeze Frame Data:** Shows engine conditions at the time a fault code was set.
6. **O2 Sensor Test:** Retrieves O2 sensor monitoring test results.
7. **On-Board Monitor Test:** Retrieves results for emission-related powertrain components.
8. **EVAP System Test:** Initiates a test of the evaporative emission system.
9. **Vehicle Information:** Retrieves vehicle information (VIN, Cal ID, CVN).
10. **DTC Lookup:** Provides detailed descriptions of DTCs.

4. MAINTENANCE

4.1 Software Updates

Regularly check for and install software updates to ensure your device has the latest vehicle coverage, bug fixes, and new features. Updates are provided free for life.

4.2 Device Cleaning

Clean the device with a soft, damp cloth. Avoid using abrasive cleaners or solvents. Keep the touchscreen clean to maintain responsiveness.

4.3 Storage

Store the device in its protective case in a cool, dry place when not in use to prevent damage from dust, moisture, and extreme temperatures.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your ThinkScan 689BT device.

5.1 Device Not Powering On

- Ensure the device is fully charged. Connect it to the power adapter and allow it to charge for at least 30 minutes before attempting to power on again.
- Verify the power button is pressed and held for a few seconds.

5.2 Connection Issues with Vehicle

- Check if the Bluetooth dongle is securely plugged into the vehicle's OBD2 port.
- Ensure the vehicle's ignition is in the ON position (engine can be off).
- Verify Bluetooth is enabled on the ThinkScan 689BT tablet.
- Restart both the vehicle and the diagnostic tool.
- Confirm vehicle compatibility. While the device supports over 140 car brands, specific functions may vary.

5.3 Software Freezing or Slow Performance

- Close any unnecessary applications running in the background.
- Ensure the device has sufficient storage space.
- Perform a software update to resolve potential bugs.
- If the issue persists, perform a factory reset (note: this will erase all user data).

5.4 Inaccurate Readings or Functionality Issues

- Ensure the vehicle's VIN is correctly identified by the device.
- Verify that the software is up to date.
- Consult the vehicle's service manual for specific diagnostic procedures.
- Contact customer support with your vehicle's model, year, and VIN for compatibility checks and advanced assistance.

6. SPECIFICATIONS

Feature	Specification
Model	ThinkScan 689BT
Operating System	Android 10.0
Processor	2.0GHz 4-Core
RAM	4GB
ROM	64GB
Display	8-inch HD Touchscreen
Battery	4150mAh (up to 12+ hours working time)
Connectivity	2.4GHz & 5GHz Wi-Fi, Bluetooth BT5.0 (12m range)
Supported Protocols	CANFD, DoIP, OBD2, EOBD, ISO 14230-4 (KWP2000), ISO 15765-4 (CAN), ISO 9141-2 (ISO), SAE J1850 (VPW), SAE J1850 (PWM)
Vehicle Coverage	140+ car brands, 10000+ car models (US 1996+, EU 2000+, Asia 2008+)
Weight	1.66 Kilograms

7. WARRANTY INFORMATION

This product comes with a manufacturer's warranty. For detailed information regarding warranty coverage, terms, and conditions, please refer to the warranty card included in your product packaging or visit the official thinkcar website. Please retain your proof of purchase for warranty claims.

8. SUPPORT AND CONTACT

For technical assistance, product inquiries, or troubleshooting not covered in this manual, please contact thinkcar customer support. You can reach our professional support team via:

- **In-App Chat:** Available directly within the ThinkScan 689BT software.
- **Email:** Refer to the official thinkcar website for the most current support email address.
- **Official Website:** [Visit the thinkcar Store on Amazon](#) for FAQs and additional resources.

When contacting support, please provide your device's serial number, vehicle make, model, and year, and a detailed description of the issue.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question