

GODIAG SK420

GODIAG CAS1/CAS2 Test Platform (Model SK420) Instruction Manual

Brand: GODIAG | Model: SK420

1. INTRODUCTION

The GODIAG CAS1/CAS2 Test Platform, Model SK420, is a specialized tool designed for automotive diagnostic and key programming tasks, specifically for BMW CAS1 and CAS2 systems. This platform facilitates various operations including key synchronization detection, solder-free mechanical key matching, CAS data reading, writing, and programming, as well as handling all keys lost scenarios and key data backup. It also assists in judging CAS module functionality.

Key functionalities include:

- Detect CAS and key synchronization
- Solder-free matching CAS1/CAS2 mechanical key
- CAS data reading, writing, and programming
- All keys lost / adding keys matching
- CAS key data backup
- CAS module function judgment

2. PACKAGE CONTENTS

The GODIAG CAS1/CAS2 Test Platform package includes the following items:

- GODIAG CAS1/CAS2 Test Platform Main Unit
- OBD2 to DB25 Cable
- CAS1 Module Connector
- CAS2 Module Connector
- Power Supply Cable
- USB Cable



Figure 2.1: The complete GODIAG CAS1/CAS2 Test Platform kit, featuring the central processing unit, various connection cables, and specialized module boards for CAS1 and CAS2 systems, alongside the product packaging.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Manufacturer	GODIAG
Model	SK420
Item Weight	13.1 ounces
Package Dimensions	8.07 x 6.1 x 2.09 inches
Power Source	Corded Electric
Operating System (for associated software)	Android (for some related tools, PC software for VVDI2)
UPC	889327073702

4. SETUP AND CONNECTIONS

Before operating the GODIAG CAS1/CAS2 Test Platform, ensure all connections are made correctly. This section outlines the typical setup process.

1. **Connect the VVDI2 Device:** Connect the OBD2-DB25 cable to your VVDI2 device.
2. **Connect to Computer:** Use the USB cable to connect the VVDI2 device to your computer.
3. **Connect OBD2 to Test Platform:** Connect the OBD2 end of the OBD2-DB25 cable to the GODIAG CAS1/CAS2 Test Platform.
4. **Connect CAS Module:** Connect the appropriate CAS module (CAS1 or CAS2) to the corresponding port on the GODIAG Test Platform. Ensure a secure fit.
5. **Apply Power:** Connect the 12V power supply to the GODIAG Test Platform.



Figure 4.1: A close-up view of hands connecting the OBD2-DB25 cable to the main GODIAG test platform unit, illustrating the secure attachment of the primary data cable.



Figure 4.2: This image shows the connection of the power supply cable and the OBD2 diagnostic cable to the GODIAG test platform, indicating readiness for operation.

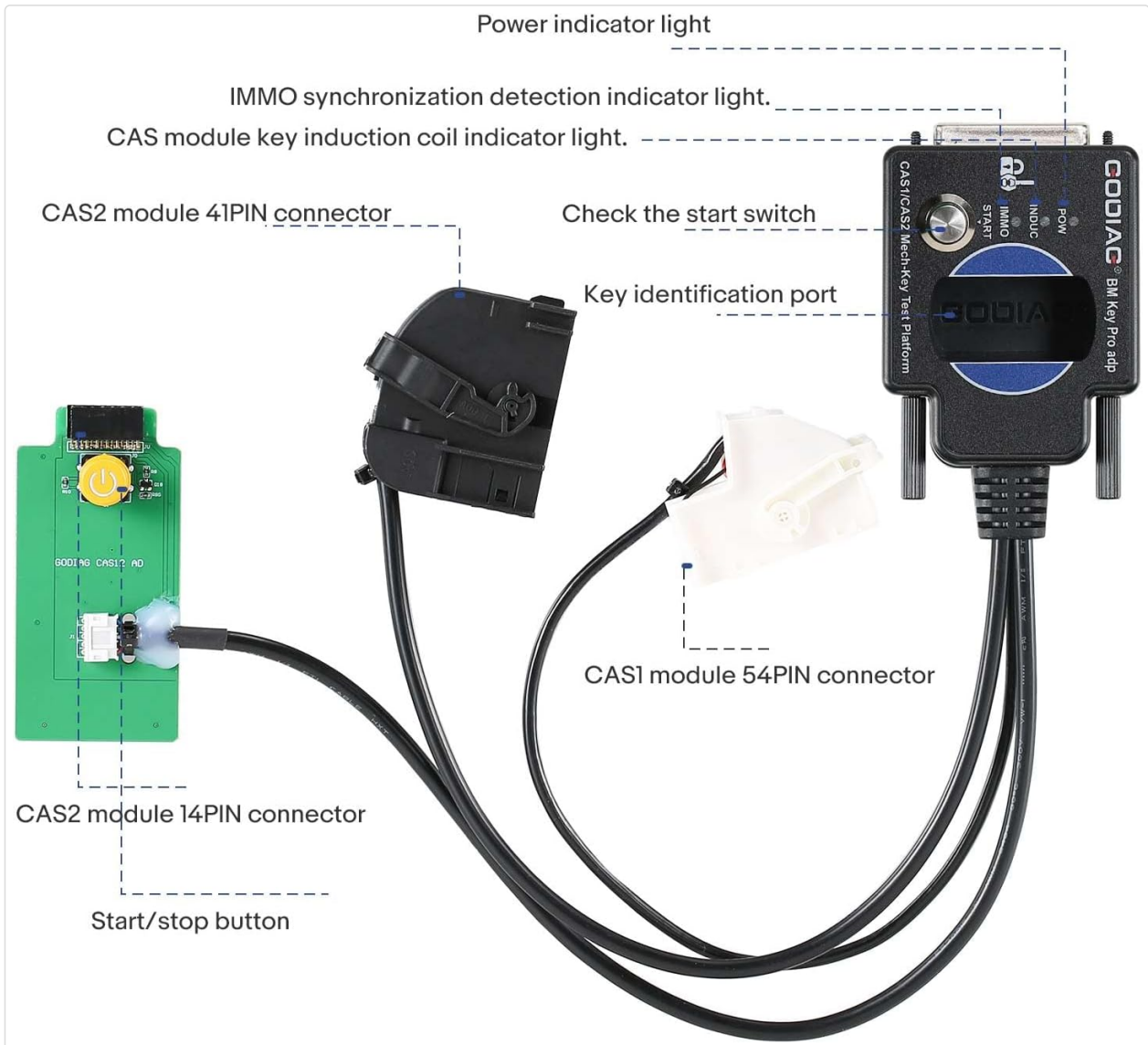


Figure 4.3: A user is shown connecting the specific CAS1 module connector to the GODIAG test platform, a crucial step for interacting with the CAS1 system.



Figure 4.4: An annotated diagram highlighting the various parts of the GODIAG CAS1/CAS2 Test Platform, including indicator lights (Power, IMMO, INDUC), key identification port, start switch, and connectors for CAS1 (54PIN) and CAS2 (41PIN, 14PIN) modules, along with the start/stop button.

5. OPERATION: ADDING A CAS1 KEY WITH VVDI2

This section provides a detailed guide on how to add a new CAS1 key using the GODIAG CAS1/CAS2 Test Platform in conjunction with VVDI2 software. Ensure all setup steps from Section 4 are completed.

Your browser does not support the video tag.

Video 5.1: This video provides a step-by-step demonstration of how to add a new CAS1 key using the GODIAG CAS1/CAS2 Mech-Key Test Platform in conjunction with VVDI2 software. It covers connecting the devices, reading CAS data, preparing a dealer key, and testing the newly generated key.

5.1. Initial Key Check

1. Insert a blank key into the ECU key port on the GODIAG Test Platform.
2. If the key pops out, it indicates that this key is not yet paired with the CAS module.

5.2. Software Preparation and Data Reading

3. Open the VVDI2 software on your computer.
4. Select the "BMW" option within the VVDI2 software interface.
5. Click "Connect" to establish communication with the CAS system.
6. Click "Read KM" to read the current mileage data from the CAS module.
7. Click "Read Code" to read the code data from the CAS module.

8. Click "Read EEPROM" to read the EEPROM data.
9. Click "Save to file" to save the EEPROM data to your desktop for backup purposes.

CAS1 + VVDI2

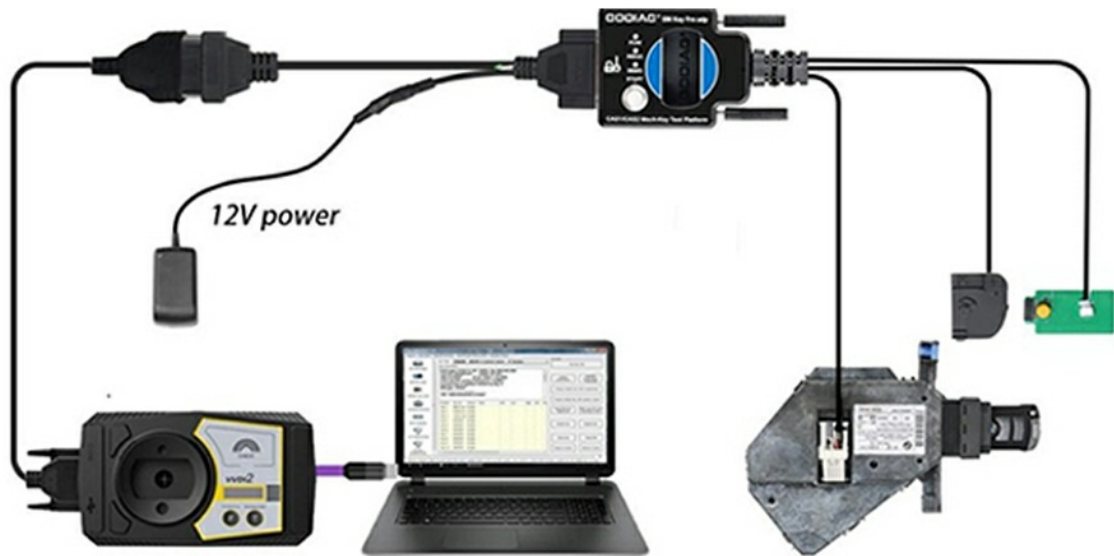


Figure 5.2: A screenshot of the VVDI2 software interface, specifically displaying the 'Key Learn' section with options for CAS/EWS Information, CAS Key Learn, FEM/BDC Key Learn, and other key programming functions.

5.3. Key Learning Process

10. Navigate to the "Key Learn" tab in the VVDI2 software and select "CAS Key Learn".
11. Click "Connect" again to refresh the key information.
12. Click "Get Key Info" to retrieve the current key status.
13. Select an unused or blank key position from the displayed list.
14. Click "Prepare dealer key with programmer". Follow the prompts to place the blank key into the VVDI2 device's key slot.
15. Once the software confirms the key is successfully generated, click "OK".
16. Click "Add Key" to finalize the key addition process.

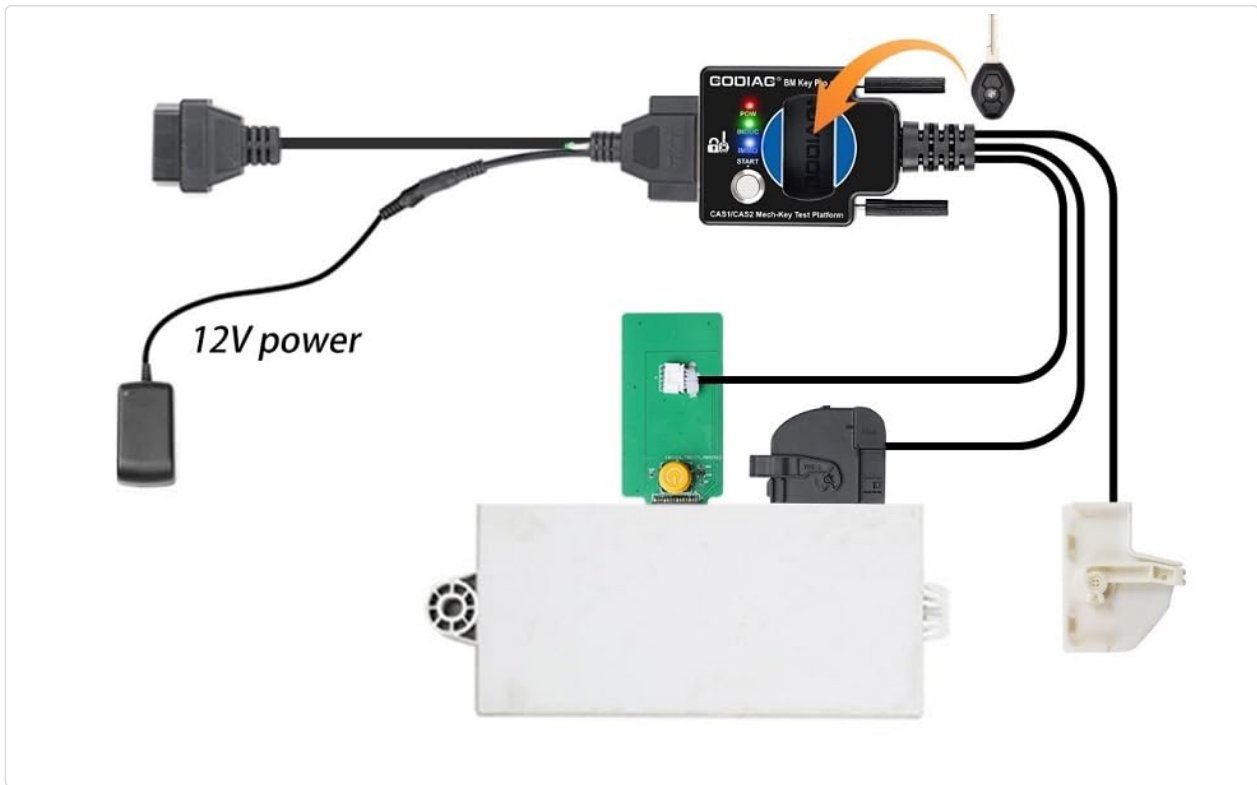


Figure 5.3: A comprehensive diagram illustrating all necessary connections for programming a CAS1 module using the GODIAG Test Platform in conjunction with a VVDI2 device and a laptop.



Figure 5.4: A comprehensive diagram illustrating all necessary connections for programming a CAS2 module using the GODIAG Test Platform in conjunction with a VVDI2 device and a laptop.

5.4. Testing the New Key

17. Insert the newly generated key into the ECU key port on the GODIAG Test Platform.
18. If the key remains securely in the port and does not pop out, it indicates that the key has been successfully programmed and synchronized with the CAS module.

6. MAINTENANCE

To ensure the longevity and optimal performance of your GODIAG CAS1/CAS2 Test Platform, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the device and its connectors with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case when not in use.
- **Cable Care:** Inspect cables for any signs of wear, fraying, or damage before each use. Replace damaged cables immediately to prevent electrical issues or data loss.
- **Software Updates:** Periodically check the GODIAG official website or VVDI2 software for available updates to ensure compatibility and access to the latest features and bug fixes.

7. TROUBLESHOOTING

If you encounter issues while using the GODIAG CAS1/CAS2 Test Platform, refer to the following common problems and solutions:

- **Device Not Powering On:**
 - Ensure the 12V power supply is securely connected and functioning.
 - Check the power indicator light on the device. If it's off, verify the power source.
- **Connection Issues with VVDI2 Software:**
 - Verify that the USB cable connecting VVDI2 to the computer is secure.
 - Ensure the OBD2-DB25 cable is correctly connected between VVDI2 and the GODIAG Test Platform.
 - Restart the VVDI2 software and try connecting again.
 - Check for any driver issues for the VVDI2 device on your computer.
- **Key Not Programming Successfully:**
 - Ensure you are using a compatible blank key.
 - Verify that the CAS module is correctly connected to the GODIAG Test Platform.
 - Confirm that the EEPROM data was read and saved correctly.
 - Follow all software prompts carefully, especially when placing the key in the VVDI2 device.
 - If the issue persists, try a different blank key or consult the VVDI2 software's specific troubleshooting guides.
- **CAS Module Function Judgment Failure:**
 - Ensure all connections to the CAS module are firm.
 - The module itself might be faulty.

8. WARRANTY INFORMATION

GODIAG products typically come with a standard manufacturer's warranty. For specific details regarding the warranty period, coverage, and claims process for your CAS1/CAS2 Test Platform (Model SK420), please refer to the warranty card included with your product or visit the official GODIAG website. Keep your proof of

purchase for warranty validation.



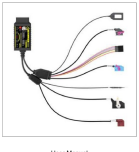
9. CUSTOMER SUPPORT




For technical assistance, product inquiries, or support related to the GODIAG CAS1/CAS2 Test Platform, please contact GODIAG customer service through their official channels. You can typically find contact information on the GODIAG website or within the product packaging.

Online Resources:

- Visit the [GODIAG Store on Amazon](#) for product information and updates.

Related Documents - SK420

 <p>GODIAG BMW CAS1/CAS2 Mech-Key Test Platform</p> <p>User Manual 202506</p>	<p>GODIAG BMW CAS1/CAS2 Mech-Key Test Platform User Manual</p> <p>User manual for the GODIAG BMW CAS1/CAS2 Mech-Key Test Platform, detailing its product overview, structure, functions, and step-by-step procedures for key synchronization, diagnostics, and programming with compatible tools like Xhorse VVDI2.</p>
 <p>GODIAG For BMW BDC3/BCP Programming Test Platform</p> <p>User Manual 202506</p>	<p>GODIAG for BMW BDC3/BCP Programming Test Platform User Manual</p> <p>User manual for the GODIAG for BMW BDC3/BCP Programming Test Platform, detailing its functions, setup, and diagnostic procedures for BMW vehicles.</p>
 <p>GODIAG GT115 For VAG MQB IMMO4 CAN-Bus UDS 4th Generation IMMO System Test Platform</p> <p>User Manual 202506</p>	<p>GODIAG GT115 for VAG MQB IMMO4 CAN-Bus UDS 4th Generation IMMO System Test Platform User Manual</p> <p>User manual for the GODIAG GT115, a test platform for VAG MQB IMMO4 CAN-Bus UDS 4th Generation IMMO systems. Includes product overview, functions, and step-by-step instructions for key detection and POGO PIN usage.</p>

<div><div>GODIAG®</div><div>GODIAG GT112 K-Line FOR VW Skoda Seat 2nd & 3rd Generation Dashboard IMMO Key Matching Test Platform Cable</div><div></div><div>User Manual 202501</div></div>	<p>GODIAG GT112 K-Line: VW, Skoda, Seat IMMO Key Matching User Manual</p> <p>Comprehensive user manual for the GODIAG GT112 K-Line test platform cable, detailing procedures for VW, Skoda, and Seat 2nd & 3rd generation dashboards, including IMMO key matching, synchronization, and diagnostics.</p>
<div><div>GODIAG®</div><div>GODIAG GT111 FOR VW Skoda Seat CAN-Bus 3rd & 3.5th Generation Dashboard IMMO Key Matching Test Platform Cable</div><div></div><div>User Manual 202501</div></div>	<p>GODIAG GT111 VW Skoda Seat CAN-Bus Key Matching Test Platform User Manual</p> <p>User manual for the GODIAG GT111 CAN-Bus 3rd & 3.5th generation dashboard IMMO key matching test platform cable. Provides instructions for key matching with VVDI2 software for VW, Skoda, and Seat vehicles.</p>
<div><div>GODIAG®</div><div>GODIAG CAS2 CAS3 SER Semi Smart Test Platform</div><div></div><div>User Manual 2025 v1.1</div><div>Product outline</div></div>	<p>GODIAG CAS2 CAS3 SER Semi Smart Test Platform User Manual</p> <p>Comprehensive user manual for the GODIAG CAS2 CAS3 SER Semi Smart Test Platform, detailing its features, functions, and step-by-step instructions for BMW CAS2/CAS3 key programming and synchronization using tools like Xhorse VVDI2.</p>