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AutoGrills VAG-COM KKL 409.1 OBD2 Scanner Cable

AutoGrills OBDII Scanner Diagnostic Cable User Manual

Model: VAG-COM KKL 409.1 OBD2 Scanner Cable

1. Introduction

The AutoGrills VAG-COM KKL 409.1 OBDII Scanner Diagnostic Cable is designed to connect your personal computer to your vehicle's On-Board Diagnostics (OBD-II) system. This interface cable enables you to read Diagnostic Trouble Codes (DTCs) and perform basic diagnostics on compatible Volkswagen, Audi, Seat, and Skoda vehicles.

This diagnostic cable specifically supports ISO9141 and KWP2000 transmission protocols, which were commonly used by VW Group vehicles manufactured between 1996 and 2006. It is an essential tool for enthusiasts and technicians looking to troubleshoot vehicle issues without expensive professional scan tools.



Figure 1: AutoGrills VAG-COM KKL 409.1 OBDII Scanner Diagnostic Cable.

2. Product Features

- **Primary Function:** USB VAG-COM interface cable for vehicle diagnostics.
- **OBDII Plug:** J1962 16-Pin Male connector for direct car connection.
- **Supported Protocols:** ISO9141 and KWP2000 (Key Word Protocol). Works on K/L Diagnostic interface cables launched after 1996 only.
- **System Compatibility:** Designed for Windows XP and Windows 7 (32-bit ONLY).
- **Diagnostic Capability:** Reads Diagnostic Trouble Codes (DTCs) to identify vehicle problems.

3. Compatible Vehicles

This diagnostic cable is compatible with specific models from Audi, SEAT, Skoda, and Volkswagen that utilize ISO9141 and KWP2000 transmission protocols. Please note the specific compatible and non-compatible models below:

Audi Models:

- **Compatible:** A2, A3, A4 Cabriolet, A6, A8, S2, S3, TT.
- **Not Compatible:** 80, 100, 200, A3(8P), A4(B7), A6(C6/4F), A8, A8L(D3/4E), Q7.

SEAT Models:

- **Compatible:** Alhambra, Altea, Arosa, Cordoba, Ibiza, Inca, Leon MK 1, Leon MK 2, Toledo.
- **Not Compatible:** Altea (5P), Leon (1P), Toledo (5P).

Skoda Models:

- **Compatible:** Fabia, Felicia, Octavia MK 1, Octavia MK 2, Superb.
- **Not Compatible:** Octavia (1Z).

Volkswagen (VW) Models:

- **Compatible:** Beetle, Bora, Caddy, Corrado, Golf MK2, Golf MK3, Golf MK4, Jetta MK3, Jetta MK4, Lupo, Passat MK3, Passat MK4, Polo MK3, Polo MK4, Touran, Touareg, Transporter T3, Transporter T4, Transporter T5.
- **Not Compatible:** Caddy (2K), Golf MK5 (1K), Golf Plus, Jetta MK5 (1K), Passat MK5 (B6), Passat MK6 (B6), Phaeton, Touran (1T).

Important Note: This cable will NOT work if your car uses a protocol/bus system like VPW, PWM, or CAN-bus.

4. Setup and Driver Installation

The VAG-COM KKL 409.1 cable requires specific drivers to function correctly with your computer. Please follow these instructions carefully:

1. **Operating System Requirement:** Ensure your computer is running Windows XP or Windows 7 (32-bit ONLY). This cable is not compatible with 64-bit operating systems or newer Windows versions (e.g., Windows 8, 10, 11).
2. **Obtain Drivers:** The product package does not include a physical CD with drivers. Drivers and the user manual are typically sent to buyers via email. If you have not received them, please contact the seller. Alternatively, drivers for KKL 409.1 cables (such as FTDI or CH340 drivers) can often be found on reputable automotive enthusiast forums or driver download websites. Search for "KKL 409.1 drivers" along with your specific Windows version.
3. **Install Drivers:** Once you have downloaded the correct drivers, follow the on-screen instructions to install them. You may need to manually update the driver through your computer's Device Manager. Look for an unrecognized USB device or a device with a yellow exclamation mark, right-click, and select "Update Driver Software."
4. **Install VCDS Lite Software:** This cable is designed to work with diagnostic software such as VCDS Lite. Download the VCDS Lite software from a trusted source. Note that the free version of VCDS Lite may have limited functionality compared to the full registered version.
5. **Configure COM Port:** After driver installation, check your Device Manager to identify the COM port assigned to the USB KKL interface. You may need to adjust the COM port settings within the VCDS Lite software to match the assigned port for proper communication.



Figure 2: Front and back views of the diagnostic cable, showing the VAG KKL label on the front and KKL VAG-COM for 409.1 on the back.

5. Operating Instructions

Once the drivers and VCDS Lite software are installed and configured, you can begin using the diagnostic cable:

1. **Connect to Vehicle:** Locate your vehicle's OBD-II port, typically found under the dashboard on the driver's side. Plug the 16-pin J1962 connector of the diagnostic cable firmly into the vehicle's OBD-II port.
2. **Connect to Computer:** Plug the USB end of the cable into an available USB port on your Windows XP/7 (32-bit) computer.
3. **Turn On Ignition:** Turn your vehicle's ignition to the 'ON' position (do not start the engine unless instructed by the software). The 'L' terminal on the cable is used for waking up the car's computing system (ECU).
4. **Launch VCDS Lite:** Open the VCDS Lite software on your computer.
5. **Test Connection:** Within the VCDS Lite software, navigate to the 'Options' or 'Settings' menu and perform a 'Test' to ensure the software can communicate with the cable and the vehicle's ECU.
6. **Perform Diagnostics:** Once the connection is established, you can use the VCDS Lite software to:
    - Read and clear Diagnostic Trouble Codes (DTCs).
    - View measuring blocks (live data from various sensors).
    - Perform basic adaptations and coding (functionality may be limited in the free version).
7. **Disconnect:** After completing your diagnostic session, close the VCDS Lite software, turn off the vehicle's ignition, and

then disconnect the cable from both the vehicle and the computer.

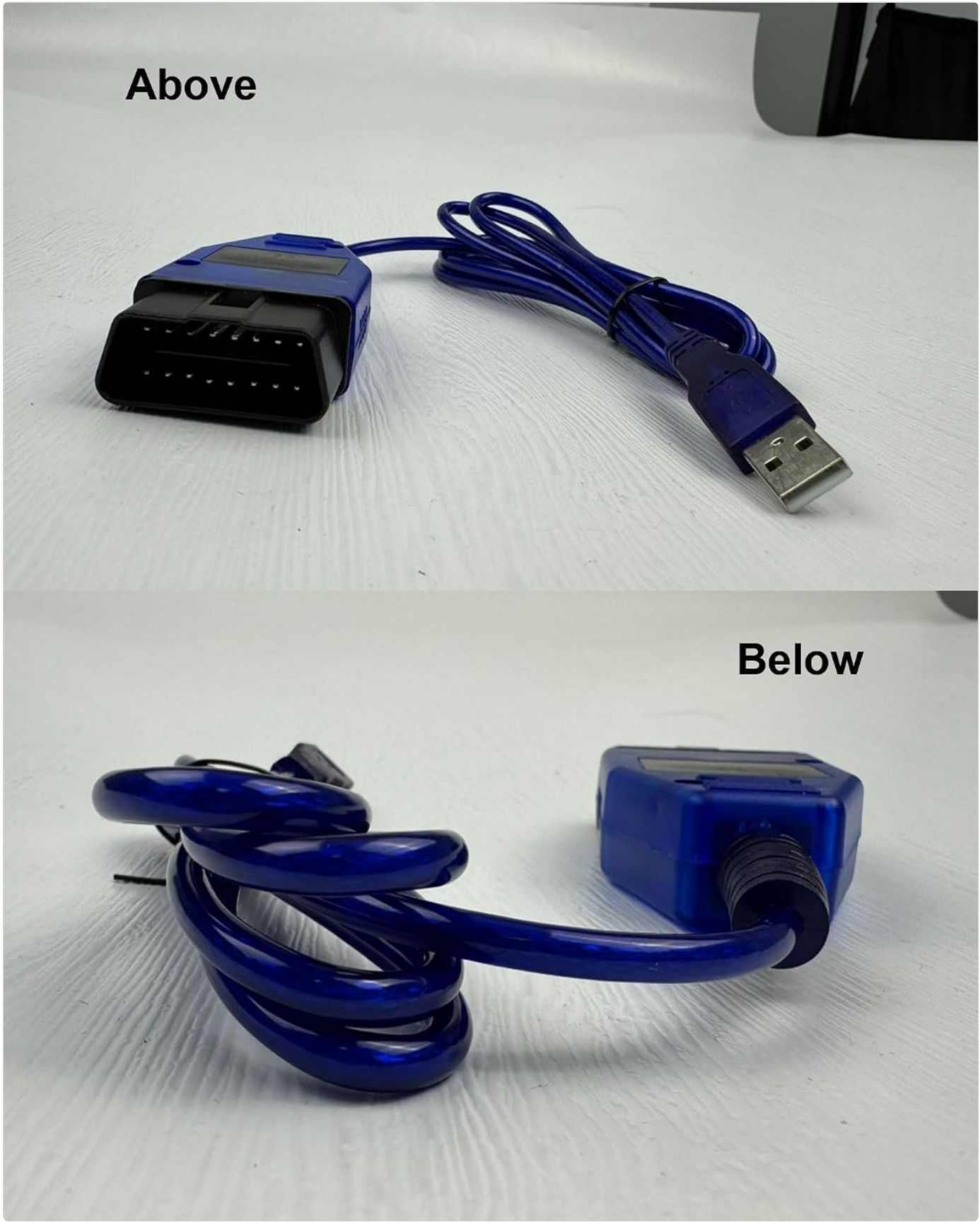


Figure 3: Views showing the top and bottom of the diagnostic cable's OBD-II connector and the USB end.

6. Maintenance

The AutoGrills VAG-COM KKL 409.1 OBDII Scanner Diagnostic Cable requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Storage:** Store the cable in a clean, dry environment, away from extreme temperatures, direct sunlight, and corrosive materials.
- **Cleaning:** If necessary, gently wipe the cable and connectors with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Handling:** Avoid bending or twisting the cable excessively, especially near the connectors, to prevent internal wire damage. Always grasp the connector housing when plugging or unplugging the cable, not the cable itself.
- **Inspection:** Periodically inspect the cable for any signs of damage, such as frayed wires, cracked insulation, or bent pins on the connectors. Do not use a damaged cable.

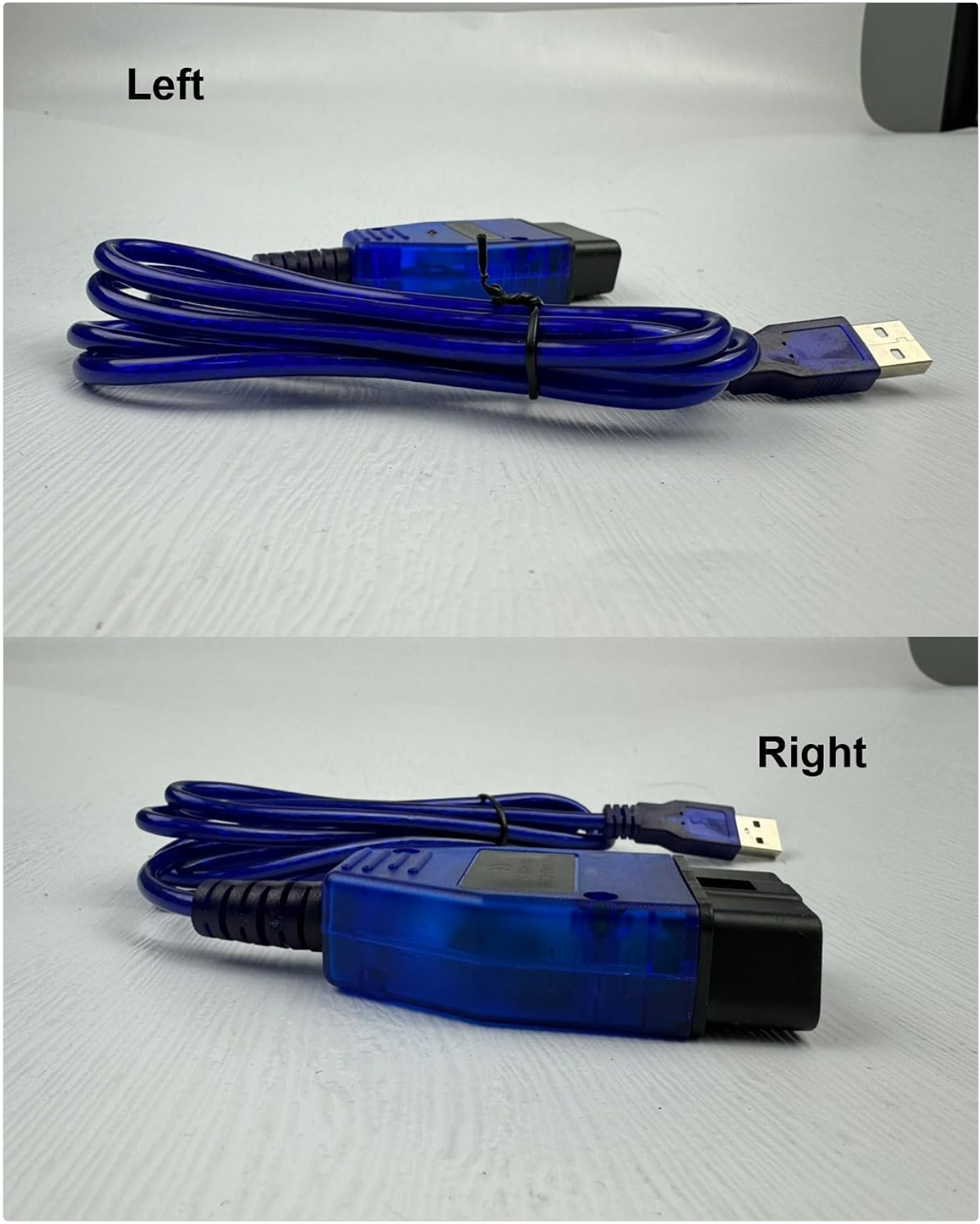


Figure 4: Side views of the diagnostic cable, illustrating its overall length and connector design.

7. Troubleshooting

If you encounter issues while using the diagnostic cable, consider the following troubleshooting steps:

- **No Communication with Vehicle:**
  - Ensure the vehicle's ignition is in the 'ON' position.

- Verify that your vehicle is listed as compatible and does not use VPW, PWM, or CAN-bus protocols.
- Check all cable connections to ensure they are secure.
- Confirm that the correct drivers are installed and the COM port is properly configured in Device Manager and VCDS Lite.

- **Driver Installation Issues:**
  - Double-check that your operating system is Windows XP or Windows 7 (32-bit).
  - Try downloading drivers from alternative reputable sources (e.g., FTDI or CH340 driver websites, automotive forums).
  - Temporarily disable antivirus software during driver installation if it interferes.
- **Software Not Recognizing Cable:**
  - Ensure VCDS Lite is the correct version for your cable and operating system.
  - Verify the COM port setting in VCDS Lite matches the one assigned in Device Manager.
  - Restart your computer and try again.
- **Limited Functionality:** The free version of VCDS Lite has limitations. If you require advanced features (e.g., access to specific measuring blocks, full coding capabilities), you may need to purchase a registered version of the software.

8. Specifications

Attribute	Detail
Brand	AutoGrills
Model Number	VAG-COM KKL 409.1 OBD2 Scanner Cable
Manufacturer Part Number	FRZDQ098
Item Weight	4.6 ounces
Package Dimensions	5.98 x 4.06 x 1.65 inches
Operating System Support	Windows XP / WIN7 32-bit ONLY
UPC	750466799757
First Available Date	June 16, 2020

9. Warranty and Support

Specific warranty information for this product is not provided in the available documentation. For details regarding warranty coverage, terms, and conditions, please refer to the purchase agreement or contact the seller directly.

For technical support, driver assistance, or any other inquiries related to the AutoGrills VAG-COM KKL 409.1 OBDII Scanner Diagnostic Cable, please reach out to the seller or manufacturer through the platform where the product was purchased. They will be able to provide the most accurate and up-to-date support.

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