GODIAG GT107-05

GODIAG GT107 Gear-Box Data Adapter and GT105 ECU Break Out Box User Manual

1. INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of the GODIAG GT107 Gear-Box Data Adapter and the GODIAG GT105 ECU AD Break Out Box. These tools are designed to assist automotive technicians and ECU engineers in diagnosing, repairing, and programming various gearbox and engine control units (ECUs).

The GT107 is specifically engineered for connecting to and working with gearbox ECUs such as DQ250, DQ200, VL381, VL300, DQ500, and DL501. The GT105 serves as a versatile connection adapter for OBD2 short-circuiting, ECU diagnosis, and power supply for outdoor vehicle maintenance.

2. SAFETY INFORMATION

Please read all safety warnings and instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always ensure proper connections are made before applying power to avoid damage to the device or vehicle ECU.
- Do not attempt to disassemble or modify the devices. Refer all servicing to qualified personnel.
- Use the devices in a well-ventilated area.
- Keep the devices away from water, moisture, and extreme temperatures.
- Wear appropriate personal protective equipment (PPE) when working with automotive electrical systems.
- Ensure the vehicle battery is adequately charged before performing any diagnostic or programming procedures to prevent data corruption.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x GODIAG GT107 Gear-box Data Adapter

- 1 x GODIAG GT105 ECU AD Break Out Box ECU Connector

Figure 3.1: The complete GODIAG GT107 and GT105 kit, including the GT107 gearbox adapter, GT105 ECU break out box, and various connection cables and accessories.

4. PRODUCT OVERVIEW

4.1 GODIAG GT107 Gear-Box Data Adapter

The GODIAG GT107 is a specialized adapter designed for direct connection to various gearbox ECUs. It facilitates reading, writing, and diagnostic operations for gearbox maintenance engineers.

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GT107

⬛ Auto / ⬛ Manual

DSG Gearbox data read
write adapter

Figure 4.1.1: Front view of the GODIAG GT107 Gear-Box Data Adapter, showing the "Auto/Manual" switch and "DSG Gearbox data read write adapter" label.

Figure 4.1.2: The GODIAG GT107 adapter connected to its multi-pin cable harness, used for direct connection to gearbox ECUs.

4.2 GODIAG GT105 ECU AD Break Out Box

The GODIAG GT105 is an ECU connection adapter used for OBD2 short-circuiting, ECU diagnosis, and providing power. It features signal communication indicators for various protocols.

Figure 4.2.1: Top view of the GODIAG GT105 ECU AD Break Out Box, displaying its digital voltage display, various connection buttons, and communication indicator LEDs.

5. SETUP AND CONNECTION

## 5.1 Connecting the GT107 Gear-Box Data Adapter

The GT107 adapter is designed for direct connection to specific gearbox ECUs. Refer to the pinout diagrams below for correct wiring configurations for different gearbox models.

- Identify the specific gearbox ECU model (e.g., DQ250, DQ200, VL381, VL300, DQ500, DL501).
- Consult the relevant pinout diagram to match the GT107's cable connections to the ECU's pins.
- Ensure all connections are secure and correct before proceeding with any operations. Incorrect wiring can damage the ECU or the adapter.
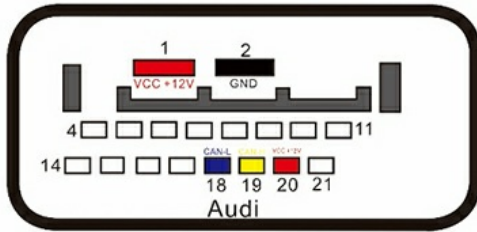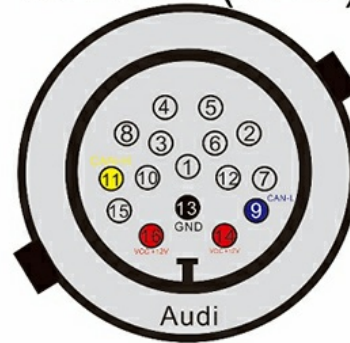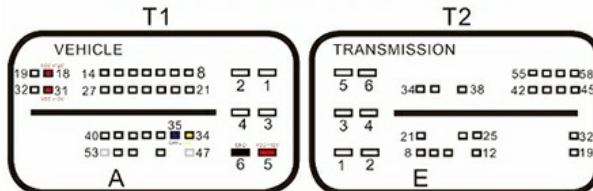
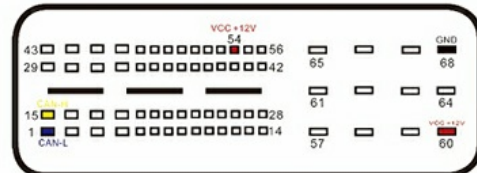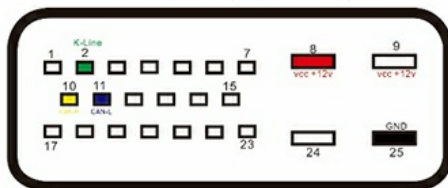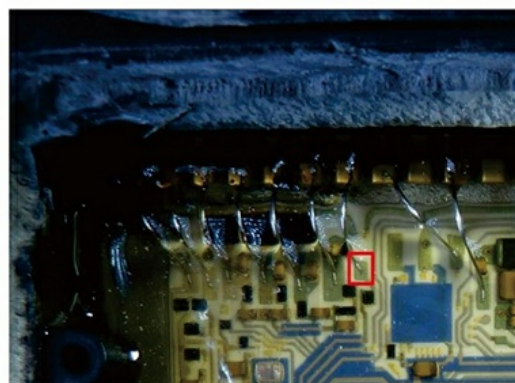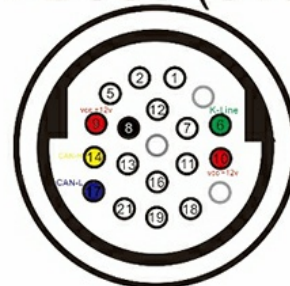**Figure 5.1.1:** Pinout diagram illustrating connections for DQ200 (0AM, 0CW), DQ250 (02E, 0D9), VL381 (0AW), and DQ500 (0BT, 0BH) gearbox ECUs with the GODIAG GT107.

Figure 5.1.2: Pinout diagram showing connections for V30 (01J) and VL300 (01J) gearbox ECUs, including an example of a Hytronic VL300 connection point.
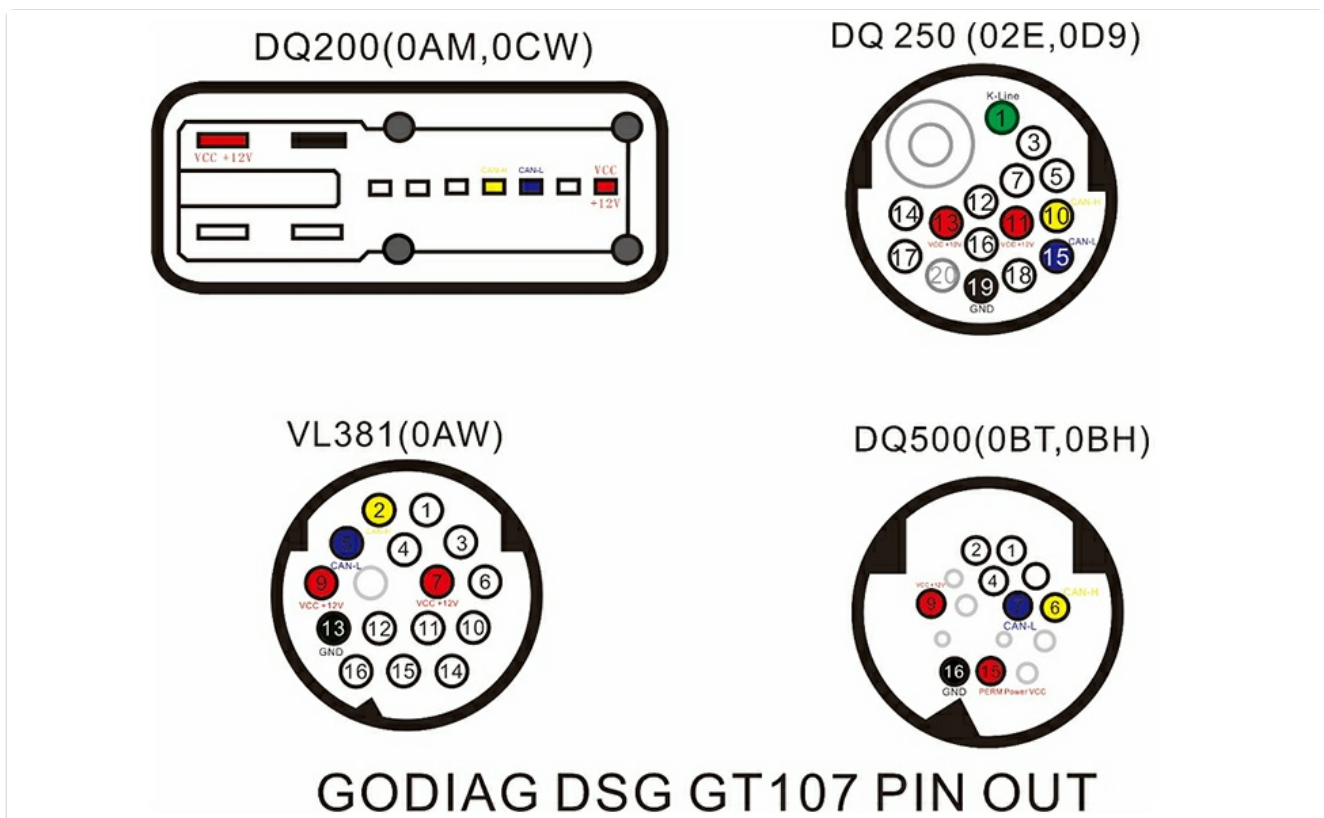
Figure 5.1.3: Pinout diagram detailing connections for DL382 (0CK), DL501 (0B5), DC0/DC4 Gen2 (Renault), and LuK-UDCT (Honda) gearbox ECUs.

5.2 Connecting the GT105 ECU AD Break Out Box

The GT105 can be used for various purposes, including OBD2 short-circuiting, ECU diagnosis, and providing external power. It connects to the vehicle's OBD2 port or directly to the ECU via its breakout cables.

- For OBD2 short-circuiting or diagnosis, connect the GT105 to the vehicle's OBD2 port.
- For direct ECU connection, use the provided breakout cables to connect to the ECU's pins, ensuring correct pin assignments for power, ground, and communication lines.
- The GT105 can draw power from the vehicle's battery for outdoor maintenance by connecting the appropriate power cables.

6. OPERATING INSTRUCTIONS

6.1 Using the GODIAG GT107 Gear-Box Data Adapter

The GT107 features an analog ignition switch with two modes:

- **Auto Mode:** The switch is not pressed.
- **Manual Mode:** The switch is pressed down.

Important: When performing data reading or writing operations, ensure you select the corresponding mode (Auto or Manual) within your diagnostic or programming software (e.g., PCMFlash, PCMTuner, Kessv2) to match the GT107's switch setting. Mismatched modes can lead to communication errors or failed operations.

6.2 Interpreting GT105 Communication Indicators

The GT105 is equipped with LED indicators for various communication protocols. These indicators help in verifying

communication status:

- **PWM+ (PIN2):** Indicates Pulse Width Modulation communication activity.
- **CANH (PIN6):** Indicates CAN High communication activity.
- **CANL (PIN14):** Indicates CAN Low communication activity.
- **K-line (PIN7):** Indicates K-line communication activity.

When data communication occurs on a specific protocol, the corresponding indicator LED will flash. This allows you to quickly determine if the diagnostic or programming device is successfully communicating with the ECU.

7. Specifications

Feature	Specification
Brand	GODIAG
Model	GT107-05
Power Source	Corded Electric
Operating System (GT105 related)	Android (*Note: Refers to compatible diagnostic software platforms*)
Automotive Fit Type	Vehicle Specific Fit
Item Weight	7.8 ounces
Package Dimensions	8.6 x 4.3 x 1.5 inches
UPC	889327099375

8. Troubleshooting

- **No Communication:**
  - Verify all cable connections are secure and correctly matched to the ECU pinout.
  - Check the GT107's Auto/Manual switch setting matches the software's selected mode.
  - Observe the GT105's communication indicator LEDs. If no LEDs flash, there might be an issue with power supply or the ECU itself.
  - Ensure the diagnostic/programming software is correctly configured and compatible with the specific ECU.

- **Power Issues:**
  - Confirm the vehicle battery has sufficient voltage.
  - Check all power supply connections to the GT105.

- **Software Errors:**
  - Refer to the specific diagnostic or programming software's user manual for error code explanations.
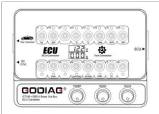 - Ensure the software is up-to-date.

9. MAINTENANCE

- Keep the devices clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the devices in a cool, dry place, away from direct sunlight and extreme temperatures.
- Inspect cables and connectors regularly for any signs of wear or damage. Replace damaged components immediately.
- Do not expose the devices to liquids.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact GODIAG customer support through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

Related Documents - GT107-05

	GODIAG ECU GPT Boot AD Programming Adapter PINOUT Guide A comprehensive guide detailing the use of the GODIAG ECU GPT Boot AD Programming Adapter for ECU PINOUTs across various manufacturers and brands. It provides essential wiring definitions, connection diagrams, and references for specific ECU types and programming tools.
	GODIAG GT105 ECU IMMO Prog AD: OBD II Breakout Box for ECU Programming and IMMO Matching User manual and technical guide for the GODIAG GT105 OBD II Breakout Box. This adapter facilitates ECU programming and IMMO activation matching for automotive technicians. Learn about its structure, functions, specific vehicle procedures for Ford, Porsche, VW, Toyota, and Mitsubishi, and how to use it for outdoor operations and with diagnostic equipment.
	GODIAG GT100 PLUS GPT User Manual: Automotive Diagnostic Tool Comprehensive user manual for the GODIAG GT100 PLUS GPT, an advanced OBD II break-out box and ECU connector for automotive diagnostics, ENET, and DOIP applications.
	GODIAG GT100+ AUTO TOOLS OBD II Breakout Box ECU Connector Operation Manual This operation manual provides detailed instructions and safety precautions for using the GODIAG GT100+ AUTO TOOLS OBD II Breakout Box ECU Connector. Learn about its features, functions, and how to connect and operate it for various automotive diagnostic and programming tasks.

[GODIAG GT100 OBDII Protocol Detector - Overview and Operation Guide](#)

Comprehensive guide to the GODIAG GT100, covering its features as an OBDII protocol detector, ECU connection tool, OBD1 to OBD2 converter, and car battery power supply. Includes safety precautions, parameters, and usage instructions.

[GODIAG GT106 24V to 12V OBD2 Scanner for Heavy Duty Trucks - User Manual](#)

User manual for the GODIAG GT106, a 24V to 12V OBD2 scanner adapter designed for heavy-duty trucks. Learn about its functions, product structure, and how to use it for diagnostics and voltage conversion.