

ANCEL VOD700

ANCEL VOD700 All System OBD2 Scanner Instruction Manual

For Volvo Vehicles and General OBD2 Diagnostics

1. INTRODUCTION

The ANCEL VOD700 is a professional diagnostic scan tool designed primarily for Volvo vehicles, offering comprehensive system diagnostics and a wide range of special maintenance functions. It also provides full OBD2 functionality for all OBD2-compliant vehicles, enabling users to read and clear fault codes, view live data, and perform various emission-related tests. This manual provides detailed instructions for the proper use and maintenance of your VOD700 device.



The ANCEL VOD700 diagnostic scanner, featuring a clear display and intuitive button layout, connected via its OBD2 cable.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Volvo-Exclusive Pro-Level Diagnostics:** Accesses all critical systems (Engine, Transmission, ABS, SRS, etc.) for Volvo models.
- **One-Touch Resets:** Performs various service resets including Oil Reset, BMS Reset, EPB Reset, TPMS Reset (partial model support), ABS Bleeding, ETC Reset, DPF Reset, EGR Reset, SRS Reset, IQA Reset.
- **Multiple OBD2 Functions:** Supports 6 OBD2 modes for all vehicle brands, including reading/clearing fault codes, live data stream, I/M readiness, EVAP system test, and DTC lookup.
- **Real-Time Voltage Monitoring:** Provides live battery voltage readings.
- **Auto-VIN Function:** Automatically identifies vehicle information for quick diagnostics.
- **Lifetime Free Updates:** Ensures compatibility with future models and functions.
- **Multilingual Interface:** Supports 11 languages (English, German, Spanish, French, Italian, Russian, Portuguese, Finnish, Danish, Swedish, Norwegian).
- **Two Skin Styles:** Offers day and night display modes for improved visibility.

2.2 Volvo Compatibility

The ANCEL VOD700 is compatible with a wide range of Volvo models. Refer to the table below for specific model and year coverage:

STRONG COMPATIBILITY				
850 (1992-1997)	960 (1991-1997)	C30 (2007-2013)	C70 Conv (1998-2005)	C70 Coupe (1998-2002)
C70 (2006-2013)	S40 (1996-2012)	S40 (1996--2012)	S60 (2001-2019)	S60 (2019-)
S60L (2019-)	S70 (1997-2000)	S80 (1999-2016)	S90 (1997-1998)	S90 (2017-2019)
S90L (2018-2019)	V40 (1996-2004)	V40 (2013-2018)	V50 (2004-2012)	V60 (2011-2019)
V60 (2019-)	V70 XC(1997-2000)	V70 XC/XC70(1997-2007)	V70 XC/XC70(2001-2007)	V70 (1997-2016)
V90 Cross Country(2017-2019)	V90 (1997-1998)	V90 (2017-2019)	XC40 (2018-2019)	XC60 (2009-2019)
XC70 (2008-2016)	XC90 (2003-2019)			

A detailed table illustrating the extensive compatibility of the ANCEL VOD700 with various Volvo car models and their respective production year ranges.

Model	Year Range
850	1992-1997
960	1991-1997
C30	2007-2013
C70 Conv	1998-2005
C70 Coupe	1998-2002
C70	2006-2013
S40	1996-2012

Model	Year Range
S60	2001-2019
S60L	2019-
S70	1997-2000
S80	1999-2016
S90	1997-1998, 2017-2019
S90L	2018-2019
V40	1996-2004, 2013-2018
V50	2004-2012
V60	2011-2019, 2019-
V70 XC	1997-2000
V70 XC/XC70	1997-2007, 2001-2007
V70	1997-2016
V90 Cross Country	2017-2019
V90	1997-1998, 2017-2019
XC40	2018-2019
XC60	2009-2019
XC70	2008-2016
XC90	2003-2019

3. SETUP

3.1 Connecting the Device

1. Locate the OBD2 port in your vehicle. This is typically found under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is turned off.
3. Plug the ANCEL VOD700's OBD2 connector firmly into the vehicle's OBD2 port.
4. Turn the vehicle's ignition to the 'ON' position (engine can be off or running, depending on the function). The device will power on automatically.

3.2 Initial Configuration

1. Upon first use, select your preferred language from the available options.
2. Navigate through the initial setup screens, if any, following the on-screen prompts.

3.3 Software Updates

It is recommended to regularly update the device software to ensure optimal performance and compatibility with the latest vehicle models and diagnostic protocols. Connect the device to a computer with internet

access and follow the instructions provided on the ANCEL official website for software updates.

4. OPERATING INSTRUCTIONS

4.1 General Navigation

Use the directional buttons (UP, DOWN, LEFT, RIGHT) to navigate through menus and options. Press the 'OK' button to confirm a selection and 'ESC' to go back to the previous screen.

4.2 Volvo-Specific Diagnostics (Full System Scan)

This function allows you to perform a comprehensive scan of all available electronic control units (ECUs) in compatible Volvo vehicles.

1. From the main menu, select 'Volvo' or 'System Scan'.
2. The device will automatically identify the vehicle using the AutoVIN function. Confirm the vehicle information.
3. Select 'Full System Scan' to initiate a diagnostic check across systems such as Engine, Transmission, ABS, SRS, BMS, EPB, TPMS, etc.
4. Review the diagnostic trouble codes (DTCs) and live data presented.



The ANCEL VOD700 displaying its manufacturer-level diagnostic capabilities, allowing access to various vehicle systems including Engine, Transmission, ABS, SRS, and more.

4.3 Special Functions (Volvo)

The VOD700 offers various special functions for maintenance and service resets on Volvo vehicles.

- **Oil Reset:** Resets the oil service light after an oil change.
- **BMS Reset:** Re-matches the control module and motoring sensor for accurate battery detection after battery replacement.
- **EPB Reset:** Deactivates and activates the electronic parking brake system for brake pad replacement.
- **TPMS Reset:** Resets the Tire Pressure Monitoring System after tire rotation or replacement (check specific model support).
- **ABS Bleeding:** Performs bleeding of the brake system when the ABS contains air to restore brake sensitivity.
- **ETC Reset:** Resets the Electronic Throttle Control to learn valvetronic limit positions.
- **Injector Coding:** Codes new injector numbers into the ECU after injector replacement.
- **DPF Reset:** Resets the Diesel Particulate Filter system.
- **EGR Reset:** Resets the Exhaust Gas Recirculation system.
- **SRS Reset:** Resets the Supplemental Restraint System (airbag system).
- **IQA Reset:** Injector Quantity Adjustment Reset.

Select the desired special function from the menu and follow the on-screen instructions. Some functions may require specific vehicle conditions (e.g., ignition on, engine off).

PROFESSIONAL-LEVEL DIAGNOSTICS

FOR VOLVO VEHICLES



The ANCEL VOD700 interface highlighting its professional-level special functions, such as EPB Reset, Oil Reset, ABS Bleeding, and Injector Coding, designed for specific maintenance tasks.

4.4 General OBD2 Functions (All Vehicles)

For non-Volvo vehicles or general engine diagnostics, the VOD700 provides standard OBD2 functionality.

- **Read Codes:** Retrieves generic (P0, P2, P3, U0) and manufacturer-specific (P1, P3, U1) codes.
- **Erase Codes:** Clears diagnostic trouble codes and turns off the Check Engine Light (MIL).
- **Live Data Stream:** Displays real-time data from the vehicle's sensors in text or graph format.
- **I/M Readiness:** Checks the readiness of the emission monitoring systems. The 'One-Click Smog Check' feature provides quick access to this.
- **EVAP System Test:** Initiates a test of the evaporative emission control system.
- **Vehicle Information:** Retrieves vehicle identification number (VIN), calibration ID (CALID), and calibration verification number (CVN).
- **DTC Lookup:** Provides definitions for diagnostic trouble codes.

MULTIPLE OBD LEVEL DIAGNOSTICS

FOR ENGINE SYSTEMS OF ALL VEHICLE BRANDS



The ANCEL VOD700 demonstrating its standard OBD2 diagnostic functions, applicable to all vehicle brands, including reading and clearing fault codes, and viewing live data streams.



A close-up of the ANCEL VOD700 screen showing real-time data stream values, providing critical information for vehicle performance analysis.

4.5 Additional Features

- **Battery Voltage Check:** Monitors the vehicle's battery voltage in real-time.
- **Auto VIN:** Automatically identifies vehicle information upon connection.
- **Feedback Function:** Allows users to submit issues or suggestions directly to ANCEL's technical team.



Battery Voltage Check



One-click Smog Check



AUTO VIN



Feedback

A visual representation of the ANCEL VOD700's additional features, including battery voltage monitoring, one-click I/M readiness check, automatic VIN detection, and the user feedback option.

5. MAINTENANCE

5.1 Software Updates

Regularly check for and install software updates to ensure the device has the latest vehicle coverage and diagnostic capabilities. Updates are free for the lifetime of the product.

5.2 Cleaning and Storage

- Clean the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Store the device in a dry, cool environment, away from direct sunlight and extreme temperatures.
- Keep the OBD2 cable free from kinks or damage.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

- **Device does not power on:** Ensure the OBD2 connector is securely plugged into the vehicle's OBD2

port and the vehicle's ignition is on. Check the vehicle's battery voltage.

- **Communication error:** Verify the vehicle's ignition is on. Ensure the OBD2 connector is properly seated. Try the device on another compatible vehicle to rule out a vehicle-specific issue.
- **Function not working on specific vehicle:** Confirm your vehicle model and year are within the supported range for the specific function. Ensure the device software is up to date.

6.2 Seeking Support

If you encounter issues that cannot be resolved using this manual, utilize the built-in 'Feedback' function on the device to send detailed information to ANCEL's technical support team. You can also visit the ANCEL official website for further assistance.

7. SPECIFICATIONS

Specification	Value
Brand	ANCEL
Model	VOD700
Item Weight	15.8 ounces
Product Dimensions	1043.31 x 7.76 x 2.09 inches
Supported Protocols	KWP, CAN, UDS, VPW, PWM, ISO, KWP 2000
Languages Supported	English, German, Spanish, French, Italian, Russian, Portuguese, Finnish, Danish, Swedish, Norwegian

8. WARRANTY AND SUPPORT

The ANCEL VOD700 comes with lifetime free software updates, ensuring your device remains current with the latest vehicle data and diagnostic capabilities. For technical support or inquiries, please use the 'Feedback' function directly on the device or contact ANCEL customer service through their official website. Our team is committed to providing solutions and assistance.