

VDO 226-001

VDO ALAS Adjustable Fuel Sender User Manual

Model: 226-001 | Brand: VDO

1. INTRODUCTION

The VDO ALAS Adjustable Fuel Sender is a precision instrument designed for accurate measurement of fuel levels in various tank configurations. This sender is adjustable to accommodate tank depths ranging from 6-3/4 inches to 23 inches and provides a resistance output of 10-184 Ohms, making it compatible with a wide range of fuel gauges. This manual provides comprehensive instructions for the safe installation, proper operation, and routine maintenance of your VDO fuel sender to ensure reliable performance.

2. SAFETY INFORMATION

Always adhere to the following safety precautions when installing or servicing the fuel sender:

- **Disconnect Power:** Before beginning any work on the fuel system, always disconnect the vehicle's or vessel's battery to prevent electrical shorts and accidental activation.
- **Ventilation:** Ensure adequate ventilation in the work area to disperse fuel vapors, which are highly flammable.
- **No Open Flames:** Never work near open flames, sparks, or other ignition sources when handling fuel or working on fuel system components.
- **Personal Protective Equipment:** Wear appropriate personal protective equipment, including safety glasses and gloves, to protect against fuel exposure and potential injuries.
- **Fuel Spills:** Have absorbent materials readily available to clean up any fuel spills immediately. Dispose of contaminated materials properly.
- **Professional Installation:** If you are unsure about any part of the installation process, seek assistance from a qualified professional.

3. PRODUCT COMPONENTS

The VDO ALAS Adjustable Fuel Sender assembly includes the following main components:

- Fuel Sender Unit (main body with electrical connections)
- Adjustable Float Arm
- Fuel Float
- Mounting Gasket
- Mounting Plate (with bolt holes)



Figure 3.1: Overview of the VDO ALAS Adjustable Fuel Sender components. The image displays the main sender unit, the long adjustable float arm with a white float at its end, a circular mounting plate with multiple holes, and a black rubber gasket.

4. SETUP AND INSTALLATION

Proper installation and adjustment are crucial for accurate fuel level readings. Follow these steps carefully:

4.1. Pre-Installation Steps

1. **Measure Tank Depth:** Accurately measure the depth of your fuel tank from the mounting surface to the

bottom. The sender is adjustable for tanks between 6-3/4 inches (17.1 cm) and 23 inches (58.4 cm).

2. **Adjust Float Arm:** The float arm must be adjusted to match your tank's depth. The arm can be carefully bent to ensure the float reaches the bottom of the tank when empty and the top when full, without hitting the tank walls or bottom. Ensure the float has full range of motion.
3. **Prepare Mounting Surface:** Clean the fuel tank's mounting surface thoroughly, removing any debris, old gasket material, or corrosion.

4.2. Installation Procedure

1. **Apply Gasket:** Place the new mounting gasket onto the fuel tank's mounting flange.
2. **Insert Sender:** Carefully insert the VDO ALAS fuel sender into the tank opening, ensuring the float arm and float are positioned correctly and can move freely.
3. **Secure Mounting Plate:** Align the sender's mounting plate with the bolt holes on the tank flange. Secure the sender using appropriate fasteners (not included) and tighten them evenly to create a leak-proof seal. Do not overtighten.
4. **Electrical Connections:**
 - Connect the sender's signal wire to the fuel gauge's input terminal.
 - Connect the sender's ground wire to a reliable chassis or battery ground point. Ensure a clean, secure connection for accurate readings.
5. **Reconnect Battery:** Once all connections are secure and verified, reconnect the vehicle's or vessel's battery.

5. OPERATING INSTRUCTIONS

The VDO ALAS Adjustable Fuel Sender operates by varying its electrical resistance based on the fuel level. As the fuel level changes, the float moves the arm, which in turn changes the resistance of the sender unit. This resistance change is then interpreted by a compatible fuel gauge, which displays the current fuel level.

- **Compatibility:** Ensure your fuel gauge is designed to work with a 10-184 Ohm input sender for accurate readings.
- **Initial Check:** After installation, fill the fuel tank and observe the gauge reading. Then, if possible, drain the tank to verify the empty reading. This helps confirm proper installation and adjustment.
- **Normal Operation:** The sender will continuously provide fuel level data to the gauge as long as the system is powered.

6. MAINTENANCE

The VDO ALAS Adjustable Fuel Sender is designed for long-term reliability with minimal maintenance. However, periodic inspection can help ensure continued accurate performance:

- **Visual Inspection:** Annually inspect the sender unit, float arm, and electrical connections for signs of corrosion, damage, or wear.
- **Float Arm Movement:** Ensure the float arm moves freely without any obstruction or binding.

- **Electrical Connections:** Check that all electrical connections are clean, tight, and free from corrosion. Loose or corroded connections can lead to inaccurate readings.
- **Gasket Integrity:** Inspect the mounting gasket for any signs of cracking, drying, or leaks. Replace if necessary.

7. TROUBLESHOOTING

If you experience issues with your VDO ALAS Adjustable Fuel Sender, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Inaccurate Fuel Reading	Incorrect float arm adjustment. Obstruction of float arm movement. Corroded or loose electrical connections. Incompatible fuel gauge.	Re-adjust float arm to match tank depth. Inspect tank for obstructions and clear them. Clean and tighten all electrical connections. Verify gauge compatibility (10-184 Ohm input).
No Fuel Reading	No power to the gauge. Broken signal or ground wire. Faulty sender unit.	Check power supply to the fuel gauge. Inspect wiring for breaks or shorts; repair as needed. Test sender resistance with a multimeter. If no resistance change, replace sender.
Fuel Leak at Mounting Point	Improperly seated gasket. Damaged gasket. Loose mounting bolts.	Re-seat gasket properly. Replace gasket. Tighten mounting bolts evenly.

If the problem persists after attempting these solutions, it may indicate a faulty component (sender or gauge) or a more complex electrical issue. Consult a qualified technician.

8. TECHNICAL SPECIFICATIONS

Attribute	Value
Brand Name	VDO
Model Name	226-001
Part Number	226001
Adjustable Tank Depth	6-3/4 inches to 23 inches (17.1 cm to 58.4 cm)
Resistance Output Range	10-184 Ohms
Material	Plastic (float), Metal (arm, body)

Attribute	Value
Item Dimensions (LxWxH)	19.4 x 3.5 x 3.5 inches (approximate, as packaged)
Item Weight	1.2 Pounds
Package Dimensions (LxWxH)	18.3 x 5.1 x 3.7 inches
Package Weight	1.2 Pounds
Date First Available	November 15, 2005

9. WARRANTY INFORMATION

The VDO ALAS Adjustable Fuel Sender comes with a manufacturer's warranty. For specific details regarding the warranty period, coverage, and claims process, please refer to the warranty documentation included with your product packaging. Alternatively, you may visit the official VDO website or contact their customer support directly.

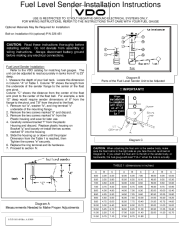
10. CUSTOMER SUPPORT

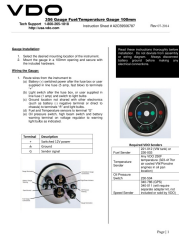
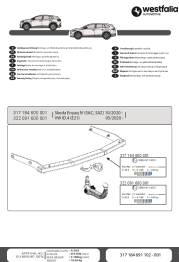
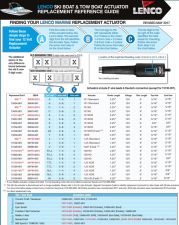
For technical assistance, product inquiries, or support with installation and troubleshooting beyond the scope of this manual, please contact VDO customer support. You can typically find contact information on the official VDO website or through your product retailer.

When contacting support, please have your product model number (226-001) and any relevant purchase information readily available.

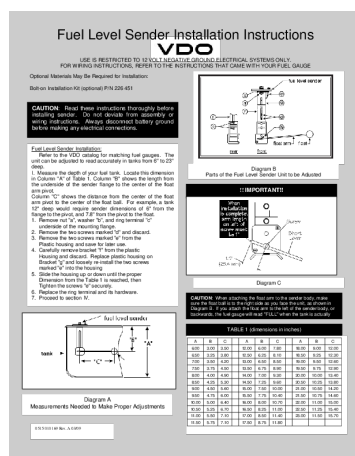
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Related Documents - 226-001

	VDO Fuel Level Sender Installation Guide Comprehensive installation instructions for the VDO Fuel Level Sender, including adjustments for various tank depths and mounting options. Covers safety precautions and warranty information.
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	VDO 356 Gauge Fuel/Temperature Gauge 100mm Installation and Wiring Instructions Detailed installation and wiring instructions for the VDO 356 Gauge 100mm Fuel/Temperature Gauge, including sender compatibility and warning light connections.
	CPFS4 REV A: Honeywell Writable Control Store (WCS) Test Program This document details the CPFS4 REV A test program for verifying the operation of the Honeywell Level 6 Writable Control Store (WCS), providing diagnostic capabilities for failure investigation.
	Westfalia Tow Bar Installation Guide for Skoda Enyaq IV and VW ID.4 Comprehensive installation instructions for Westfalia tow bars (Part No. 317 184 600 001) on Skoda Enyaq IV (5AC, 5AZ) and VW ID.4 (E21) models. Includes technical specifications, torque values, and safety guidelines for proper mounting.
	VDO CYTEC C 10 WL Bedienungsanleitung Fahrradcomputer Installation und Bedienung Umfassende Anleitung für den VDO CYTEC C 10 WL Fahrradcomputer von CYCLE PARTS GMBH. Erfahren Sie mehr über Installation, Funktionen, Einstellungen, Wartung und Fehlerbehebung.
	Lenco Marine Actuator Replacement Reference Guide: Find Your Part Comprehensive guide to identifying and selecting the correct Lenco marine replacement actuator for ski and tow boats. Includes model numbers, specifications, and OEM cross-reference.

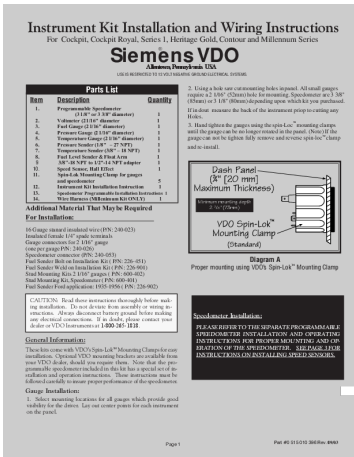
Documents - VDO – 226-001



[VDO Fuel Level Sender Installation Guide](#)

Comprehensive installation instructions for the VDO Fuel Level Sender, including adjustments for various tank depths and mounting options. Covers safety precautions and warranty information.

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[pdf] User Manual Instructions Parts List

0 515 012 051 Programmable Speedometer Lettersize p65 Administrator Instrument Kit Installation and

Wiring Instructions Check the OEM engine manual for correct location these senders Temperature are

most accurate when installed in an aftermarket intake manifold Installing sender into cylinder head can

cause high readings due to exhaust heat NOTE This kit contains a 3/8 18 NPT temperature vdo

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Instrument Kit Installation and Wiring Instructions For Cockpit, Cockpit Royal, Series

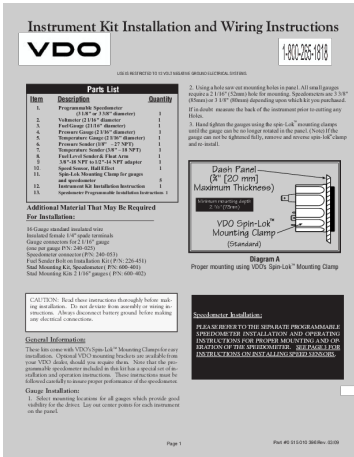
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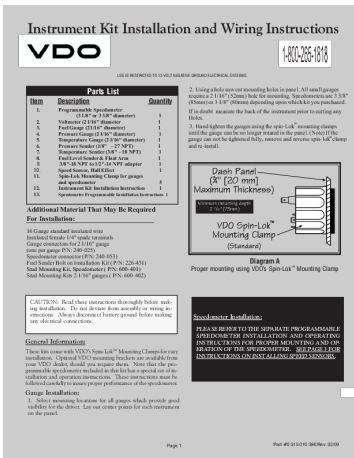
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Wiring Instructions Jan 5 2024 — General Information These kits come with VDO s Spin Lok™ Mounting

Clamps for easy installation Optional mounting brackets are available from 918 a2c59519575 jugs

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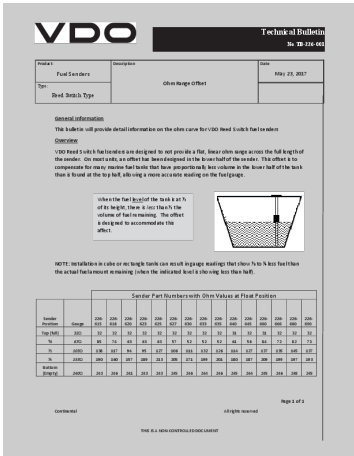
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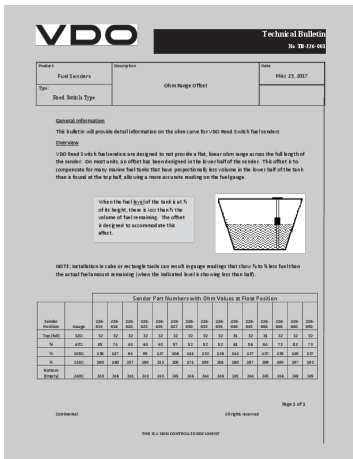
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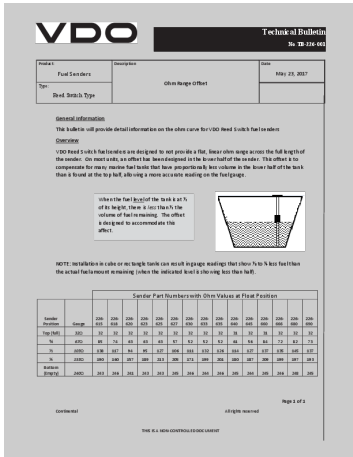
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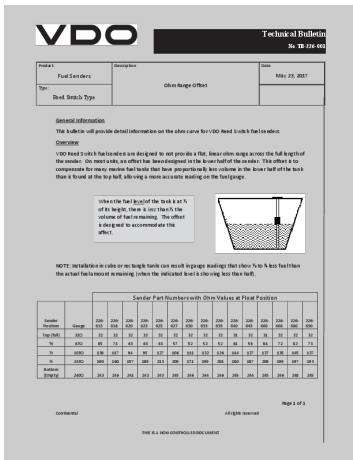
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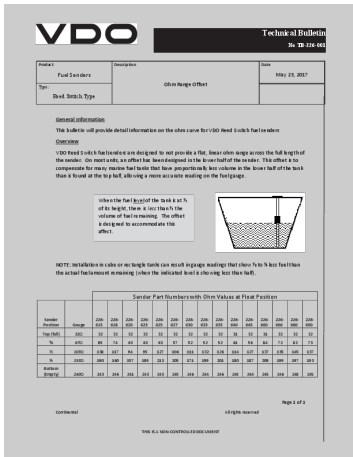
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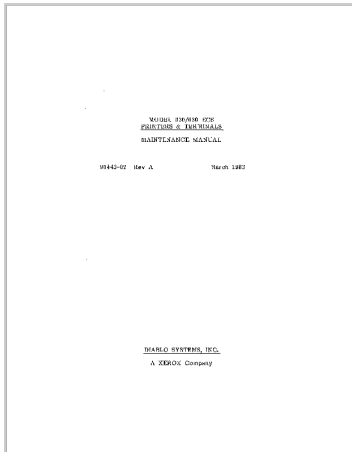
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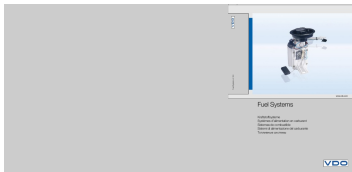
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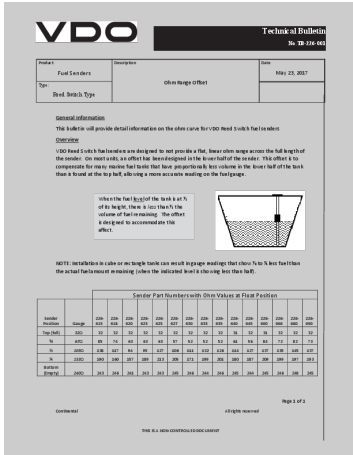


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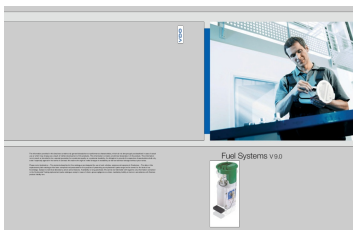


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