

## LEXUS 25860-38010

# OEM Genuine Lexus Vacuum Switching Valve Sub-Assembly 25860-38010 User Manual

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## 1. INTRODUCTION

This manual provides essential information for the proper installation, function, and maintenance of the OEM Genuine Lexus Vacuum Switching Valve Sub-Assembly, part number 25860-38010. This component is a critical part of your vehicle's emission control system, designed to regulate vacuum flow to various engine components. It is compatible with certain Lexus models, including the 2010-2022 GX460 and 2008-2021 LX570. The factory number has been superseded to 25860-0S010.

Ensure you read and understand all instructions before proceeding with installation or any related procedures.

## 2. SAFETY INFORMATION

**WARNING:** Always prioritize safety when working on a vehicle. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- Always wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Ensure the vehicle is turned off, cooled down, and properly supported before beginning any work. Disconnect the battery if necessary.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.
- If you are unsure about any step, consult a qualified automotive technician.
- Keep children and pets away from the work area.

## 3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- 1x OEM Genuine Lexus Vacuum Switching Valve Sub-Assembly (Part No. 25860-38010)



Figure 3.1: The OEM Genuine Lexus Vacuum Switching Valve Sub-Assembly 25860-38010.

## 4. INSTALLATION

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This section provides general guidance for installing the vacuum switching valve. Due to variations between vehicle models and configurations, it is highly recommended to consult your vehicle's specific service manual or seek professional assistance for precise installation instructions.

### 4.1 Pre-Installation Steps

1. Park the vehicle on a level surface and engage the parking brake.
2. Turn off the engine and allow it to cool completely.
3. Disconnect the negative terminal of the vehicle's battery to prevent electrical shorts.
4. Locate the existing vacuum switching valve. Its position can vary depending on the vehicle model.

### 4.2 Removal of Old Valve

1. Carefully disconnect any electrical connectors attached to the old valve.
2. Disconnect any vacuum hoses connected to the valve. Note their positions for correct re-connection.
3. Unbolt or unclip the old vacuum switching valve from its mounting bracket.
4. Remove the old valve.



Figure 4.1: Side view of the vacuum switching valve, showing the electrical connector and vacuum port.

### 4.3 Installation of New Valve

1. Position the new Lexus Vacuum Switching Valve Sub-Assembly (25860-38010) into its mounting location.
2. Secure the valve with the appropriate bolts or clips. Ensure it is firmly seated.
3. Reconnect all vacuum hoses to their correct ports on the new valve. Double-check for secure connections to prevent vacuum leaks.
4. Reconnect the electrical connector to the valve. Ensure it clicks into place.

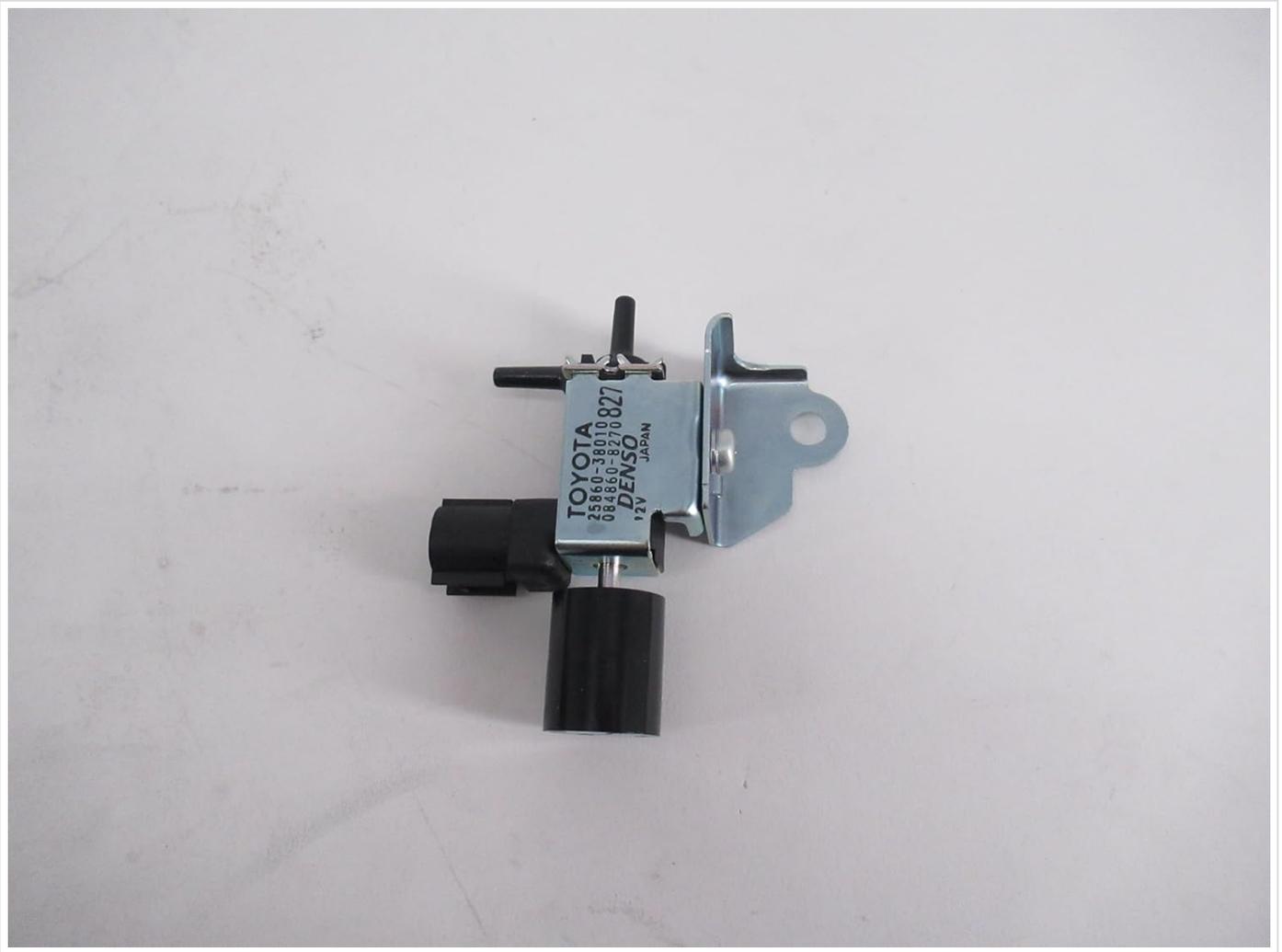


Figure 4.2: Top view of the valve, showing the part number and manufacturer markings.

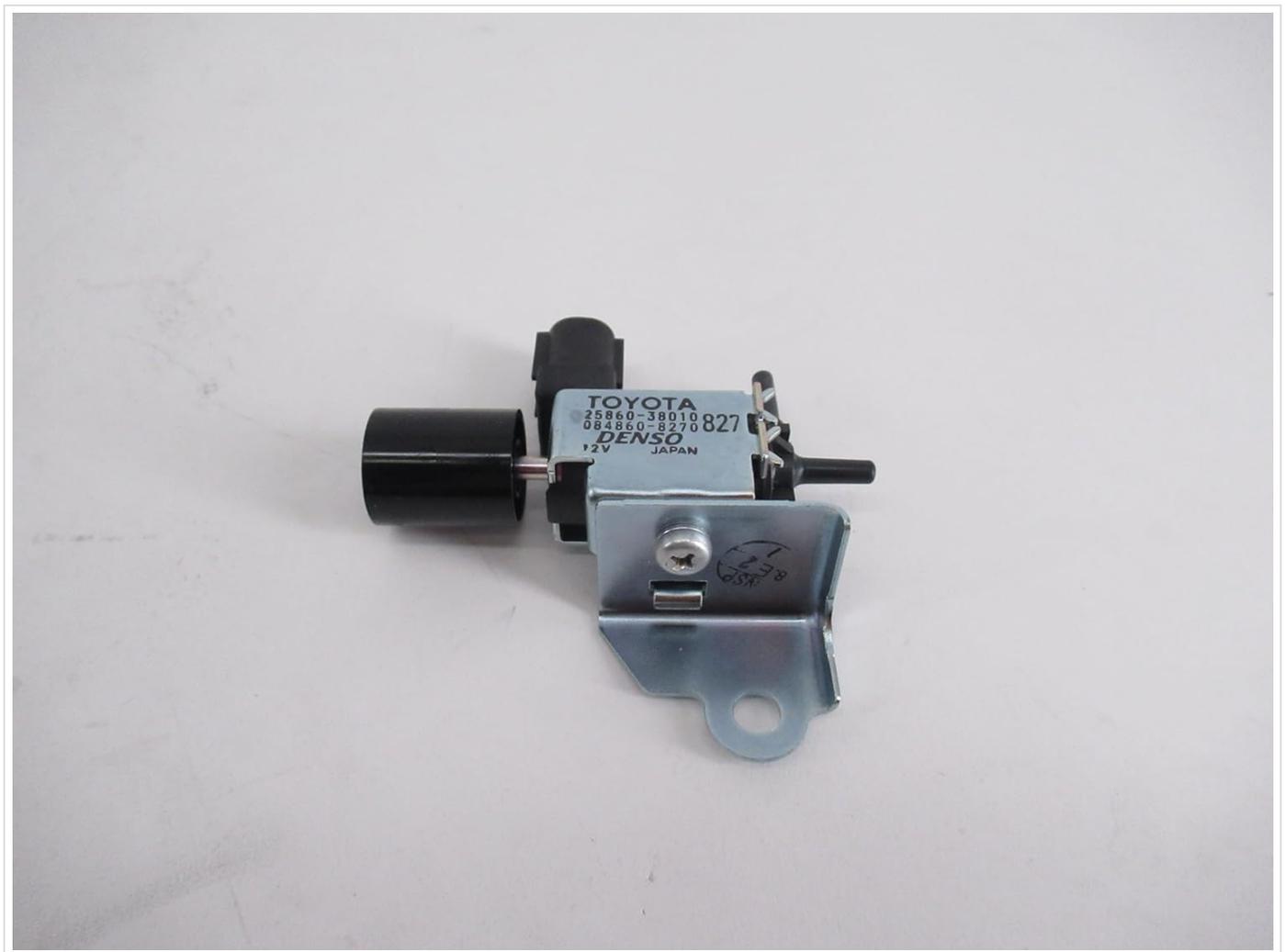


Figure 4.3: Angled view of the valve, highlighting its overall structure and mounting bracket.

#### 4.4 Post-Installation Steps

1. Reconnect the negative terminal of the vehicle's battery.
2. Start the engine and check for any warning lights or unusual engine behavior.
3. If a "Check Engine" light was on prior to replacement, it may need to be cleared using an OBD-II scanner.
4. Perform a test drive to ensure proper operation.

### 5. OPERATION

The Lexus Vacuum Switching Valve (VSV) is an electronically controlled component that regulates vacuum flow within the engine's emission control and other systems. It operates automatically based on signals from the Engine Control Unit (ECU).

When the ECU sends a signal, the VSV opens or closes, directing vacuum to specific actuators or components, such as those involved in the EVAP system, EGR system, or variable intake manifold systems. There is no direct user interaction required for the operation of this valve.

### 6. MAINTENANCE

The Lexus Vacuum Switching Valve Sub-Assembly is designed for long-term reliability and typically does not require routine maintenance. However, periodic inspection can help ensure its continued proper function.

- **Visual Inspection:** Periodically check the valve and its connected hoses for any signs of damage, cracks, or loose connections. Ensure the electrical connector is securely attached.

- **Vacuum Leaks:** Listen for any hissing sounds around the valve or hoses, which could indicate a vacuum leak. Address any leaks promptly.
- **Cleaning:** Keep the area around the valve clean and free from excessive dirt or debris. Do not use harsh chemicals directly on the valve.

If you suspect the valve is malfunctioning, refer to the troubleshooting section or consult a qualified technician.

## 7. TROUBLESHOOTING

If you experience issues after installing the vacuum switching valve or suspect a malfunction, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
"Check Engine" Light (CEL) illuminated	Faulty VSV, vacuum leak, electrical connection issue, or related component failure.	Use an OBD-II scanner to retrieve diagnostic trouble codes (DTCs). Inspect all vacuum hoses for cracks or disconnections. Verify the electrical connector is secure. If codes point to the VSV, further diagnosis or replacement may be needed.
Rough idle or poor engine performance	Vacuum leak, stuck open/closed VSV, or incorrect vacuum hose routing.	Check all vacuum hose connections. Ensure hoses are routed correctly according to the vehicle's service manual. Test the VSV's functionality (requires specialized tools or technician).
Fuel odor or EVAP system codes	VSV related to the EVAP system is malfunctioning or a leak in the EVAP system.	Inspect EVAP system hoses and components for damage. Consult a technician for EVAP system diagnosis.

For complex issues or persistent problems, it is always best to consult a certified Lexus service center or a qualified automotive professional.

## 8. SPECIFICATIONS

Attribute	Detail
Part Number	25860-38010
Superseded Part Number	25860-0S010
Brand	LEXUS (Genuine OEM)
Included Components	Lexus Part 25860-38010 (Vacuum Switching Valve Sub-Assembly)
Exterior Finish	Smooth
Compatible Models (Examples)	2010-2022 Lexus GX460, 2008-2021 Lexus LX570

## 9. WARRANTY & SUPPORT

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**Warranty Information:** For specific warranty details regarding the OEM Genuine Lexus Vacuum Switching Valve Sub-Assembly (Part No. 25860-38010), please contact the seller directly. Warranty terms may vary based on the point of purchase and regional regulations.

**Technical Support:** If you require technical assistance or have questions not covered in this manual, it is recommended to consult a certified Lexus service center or a qualified automotive technician. For general inquiries related to your purchase, please contact your retailer.

