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› Motorcraft CM5235 Acceleration Sensor User Manual

Motorcraft CM5235

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Model: CM5235

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and understanding of the Motorcraft CM5235 Acceleration Sensor. This sensor is designed as a direct OEM replacement component for automotive applications, ensuring compatibility and adherence to strict Ford Motor Company standards for safety and durability.

2. PRODUCT OVERVIEW

The Motorcraft CM5235 is an acceleration sensor critical for various vehicle systems that monitor motion and stability. It is constructed from durable plastic and designed for precise measurement of acceleration and deceleration forces within a specified range. As an OEM replacement part, it is engineered to match the form, fit, and function of the original equipment.



Image 1: Motorcraft CM5235 Acceleration Sensor. This image displays the sensor's main body and its multi-pin electrical connector, which is crucial for vehicle system integration.

3. SAFETY INFORMATION

Always observe the following safety precautions when working with automotive components:

- **Disconnect the vehicle's battery** before beginning any electrical work to prevent accidental short circuits or electrical shock.
- Wear appropriate **personal protective equipment (PPE)**, such as safety glasses and gloves.
- Ensure the vehicle is **securely supported** on a level surface if lifting is required.
- Refer to the **vehicle's specific service manual** for detailed safety procedures and component locations.
- Avoid dropping or subjecting the sensor to severe impacts, as this can damage internal components.

4. SETUP AND INSTALLATION

The Motorcraft CM5235 Acceleration Sensor is designed for direct replacement. Installation typically involves removing the old sensor and installing the new one in its place. Due to the critical nature of this component and its integration with vehicle safety systems, professional installation or adherence to the vehicle manufacturer's service manual is highly recommended.

4.1 General Installation Steps (Consult Vehicle Manual for Specifics)

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative terminal of the vehicle's battery.
2. **Locate Old Sensor:** Identify the location of the existing acceleration sensor in your vehicle. This can vary

significantly by make and model.

3. **Remove Old Sensor:** Carefully disconnect the electrical connector from the old sensor. Then, unbolt or unclip the sensor from its mounting point.
4. **Install New Sensor:** Position the new Motorcraft CM5235 sensor in the mounting location. Secure it with the appropriate fasteners, ensuring it is snug but not overtightened.
5. **Connect Electrical:** Reconnect the electrical connector to the new sensor, ensuring a firm and secure connection.
6. **Final Steps:** Reconnect the vehicle's battery. It may be necessary to perform a system calibration or diagnostic scan after installation, as specified by the vehicle manufacturer.

Note: *Improper installation can lead to incorrect sensor readings, affecting vehicle performance and safety systems.*

5. OPERATING INSTRUCTIONS

The Motorcraft CM5235 Acceleration Sensor operates automatically as part of the vehicle's electronic control systems. It continuously measures the vehicle's acceleration and deceleration along specific axes and transmits this data to the vehicle's onboard computer (ECU or other control modules). This data is used for various functions, including:

- Electronic Stability Control (ESC)
- Traction Control Systems (TCS)
- Anti-lock Braking Systems (ABS)
- Airbag deployment systems (in some applications)

There is no direct user interaction required with the sensor during normal vehicle operation. Its function is entirely passive, providing critical data to the vehicle's safety and performance systems.

6. MAINTENANCE

The Motorcraft CM5235 Acceleration Sensor is a sealed, maintenance-free component. No routine servicing, lubrication, or adjustment is required.

6.1 Inspection

Periodically inspect the sensor and its wiring harness for:

- Visible damage, cracks, or corrosion.
- Loose or corroded electrical connections.
- Fraying or damage to the wiring.

If any damage is observed, the sensor or wiring should be replaced by a qualified technician.

7. TROUBLESHOOTING

Malfunctions of an acceleration sensor can manifest in various ways, often triggering warning lights on the vehicle's dashboard (e.g., ABS, ESC, or check engine light). Common symptoms may include:

- Illuminated warning lights related to stability or braking systems.
- Erratic behavior of stability control or traction control systems.
- Diagnostic Trouble Codes (DTCs) related to the acceleration sensor.

7.1 Diagnostic Steps

- 1. Check for DTCs:** Use an OBD-II scanner to retrieve any stored diagnostic trouble codes. Specific codes will point to sensor issues.
- 2. Inspect Wiring:** Visually inspect the sensor's electrical connector and wiring for any signs of damage, corrosion, or loose connections.
- 3. Professional Diagnosis:** If warning lights persist or DTCs indicate a sensor fault, professional diagnosis by a certified automotive technician is recommended. They can perform advanced testing to confirm sensor functionality and system integrity.

Caution: Do not attempt to repair a faulty sensor. Replace it with a new, genuine Motorcraft CM5235 Acceleration Sensor.

8. SPECIFICATIONS

Attribute	Detail
Brand	Motorcraft
Model Number	CM5235
Part Type	Acceleration Sensor
Material	Plastic
Product Dimensions (L x W x H)	5.41 x 3.18 x 3.18 cm (2.13 x 1.25 x 1.25 inches)
Item Weight	40.82 g (1.44 oz)
Measuring Range	-3g to +3g
Mounting Type	Flange Mount
Output Type	Electrical Signal
Specific Uses	Automotive
Country of Origin	USA
UPC	031508636316

9. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your Motorcraft CM5235 Acceleration Sensor, please refer to the official Motorcraft website or contact your authorized Motorcraft dealer or service center. Keep your purchase receipt as proof of purchase.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question