

Bosch 0261230198

Bosch MAP Sensor for Maruti Eeco (Model 0261230198) User Manual

Model: 0261230198

1. INTRODUCTION

This manual provides essential information for the proper installation, function, and maintenance of your Bosch Manifold Absolute Pressure (MAP) Sensor, model 0261230198, designed for Maruti Eeco vehicles. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage to components.
- Ensure the engine is cool before working on engine components to avoid burns.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, during installation.
- If you are unsure about any installation steps or procedures, consult a qualified automotive technician.
- Do not modify the sensor or its wiring, as this may lead to malfunction or damage.

3. PRODUCT OVERVIEW

The Bosch MAP Sensor (Manifold Absolute Pressure Sensor) measures the absolute pressure in the engine's intake manifold. This data is crucial for the Engine Control Unit (ECU) to calculate engine load, adjust fuel delivery, and optimize ignition timing, ensuring efficient engine performance and fuel economy. A properly functioning MAP sensor is vital for smooth engine operation and emissions control.



Image: Bosch MAP Sensor, model 0261230198. This image displays the sensor unit with its electrical connector and pressure sensing port.

4. SPECIFICATIONS

Specification	Detail
Brand	Bosch
Model Number	0261230198
Part Number	0906141
Manufacturer	BOSCH
Item Dimensions (L x W x H)	5.9 x 5.9 x 2.9 Centimeters
Material	Ceramic, Metal, Plastic
Item Weight	0.02 Kilograms
Style	Pressure Sensor
Mounting Type	Flange Mount
Output Type	Electrical Signal

5. SETUP (INSTALLATION)

The MAP sensor is typically located on the intake manifold of the engine. Installation generally involves replacing the existing sensor with the new one. Always ensure the engine is off and cool before beginning.

- 1. Locate the Sensor:** Identify the existing MAP sensor on your Maruti Eeco's intake manifold. Consult your vehicle's service manual for the exact location if needed.
- 2. Disconnect Battery:** Disconnect the negative terminal of the vehicle's battery.
- 3. Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor. This usually involves pressing a release tab and pulling.
- 4. Remove Old Sensor:** Remove any mounting bolts or clips securing the old sensor. Gently pull the old sensor from its mounting position.
- 5. Inspect Mounting Area:** Ensure the mounting surface is clean and free of debris or old gasket material.

6. **Install New Sensor:** Insert the new Bosch MAP Sensor (0261230198) into the mounting position. Ensure it seats correctly.
7. **Secure Sensor:** Secure the sensor with the original mounting bolts or clips. Do not overtighten.
8. **Reconnect Electrical Connector:** Reconnect the electrical connector firmly to the new sensor until it clicks into place.
9. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
10. **Test Operation:** Start the engine and check for any error indicators on the dashboard. It may be necessary to clear any stored diagnostic trouble codes (DTCs) using a scan tool.

It is highly recommended to have this procedure performed by a certified automotive technician to ensure correct installation and avoid damage to vehicle components.

6. OPERATING

Once installed, the Bosch MAP Sensor operates continuously as an integral part of the engine's electronic control system. It sends real-time pressure data from the intake manifold to the Engine Control Unit (ECU). The ECU then uses this information, along with other sensor data, to precisely adjust fuel injection volume and ignition timing to match engine load and atmospheric conditions. No direct user interaction is required for its operation; it functions automatically to optimize engine performance and efficiency.

7. MAINTENANCE

MAP sensors are generally designed to be maintenance-free components with a long service life. However, periodic inspection can help ensure continued reliable operation:

- **Electrical Connections:** Periodically inspect the sensor's electrical connector and wiring for any signs of corrosion, fraying, or loose connections. Ensure the connector is securely seated.
- **Vacuum Hoses (if applicable):** If your MAP sensor uses a vacuum hose connection, check the hose for cracks, kinks, or blockages that could affect pressure readings.
- **Cleanliness:** Gently clean the exterior of the sensor if it becomes excessively dirty. Avoid using harsh chemicals or abrasive materials, and do not attempt to clean the internal sensing element.

No internal servicing or calibration is required for this sensor.

8. TROUBLESHOOTING

A faulty MAP sensor can lead to various engine performance issues. Common symptoms include:

- **Rough Idling or Stalling:** The engine may run unevenly or stall, especially at idle.
- **Poor Fuel Economy:** Incorrect pressure readings can cause the ECU to deliver too much or too little fuel.
- **Engine Hesitation or Misfires:** The engine may hesitate during acceleration or experience misfires.
- **Check Engine Light (CEL) Illumination:** The Check Engine Light will typically illuminate, and the ECU will store specific diagnostic trouble codes (DTCs) related to manifold pressure (e.g., P0105, P0106, P0107, P0108).

If your vehicle exhibits these symptoms, a diagnostic scan tool is essential to confirm if the MAP sensor is the cause. For example, some vehicle models may display specific error codes (like '3-4' for certain Suzuki engines, as reported by users for similar sensors) that directly point to a MAP sensor problem. If a fault is confirmed, replacement of the sensor is typically the required solution. Always consult a professional for

accurate diagnosis and repair.

9. WARRANTY INFORMATION

For detailed warranty information regarding your Bosch MAP Sensor (Model 0261230198), please refer to the official Bosch warranty documentation provided with your purchase. Warranty terms and conditions may vary by region, retailer, and specific product. It is recommended to retain your proof of purchase for any warranty claims.

10. SUPPORT

For technical assistance, product inquiries, or further support related to your Bosch MAP Sensor, please visit the official Bosch website or contact Bosch customer service directly. You can also find more information and products at the [Bosch Store on Amazon](#).