

## Koso 2212-0377

# Koso Cylinder Head Temperature Sensor 14MM (Model 2212-0377) Instruction Manual

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Koso 14MM Cylinder Head Temperature Sensor, Model 2212-0377. This sensor is designed to accurately measure the temperature of your engine's cylinder head, providing crucial data for monitoring engine health and performance. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## SAFETY INFORMATION

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- Always ensure the engine is cool before attempting any installation or maintenance to prevent burns.
- Disconnect the vehicle's battery before starting installation to avoid electrical shorts or damage.
- Use appropriate tools and wear personal protective equipment, such as gloves and eye protection.
- Ensure all connections are secure and properly insulated to prevent electrical hazards.
- If you are unsure about any part of the installation process, consult a qualified mechanic.
- Do not modify the sensor or its wiring, as this may lead to malfunction or damage.

## PACKAGE CONTENTS

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Verify that all components are present in the package:

- Koso 14MM Cylinder Head Temperature Sensor (Model 2212-0377)
- Instruction Manual (this document)
- *Note: Additional wiring or display units are typically sold separately and are required for full functionality.*

## INSTALLATION

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The Koso 14MM Cylinder Head Temperature Sensor is designed to be installed under the spark plug of

your engine. Ensure your spark plug has a 14MM thread size for compatibility.



Image showing the Koso 14MM cylinder head temperature sensor, featuring its threaded body and electrical connector.

1. **Prepare the Engine:** Ensure the engine is completely cool. Disconnect the negative terminal of the vehicle's battery.
2. **Locate Spark Plug:** Identify the spark plug where you intend to install the sensor.
3. **Remove Spark Plug:** Carefully remove the spark plug using an appropriate spark plug wrench.
4. **Install Sensor:** Place the Koso 14MM temperature sensor onto the spark plug, ensuring it sits flush against the spark plug's washer. The sensor acts as a washer, allowing it to measure temperature directly from the cylinder head.
5. **Reinstall Spark Plug:** Carefully thread the spark plug with the sensor back into the cylinder head. Tighten the spark plug to the manufacturer's recommended torque specifications. *Do not overtighten, as this can damage the spark plug, sensor, or cylinder head.*
6. **Connect Wiring:** Connect the sensor's electrical lead to your compatible Koso temperature gauge or display unit. Ensure the connection is secure and protected from heat and moving parts.
7. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
8. **Test Functionality:** Start the engine and observe the temperature reading on your display unit to confirm proper operation.

## OPERATION

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Once installed and connected to a compatible Koso temperature gauge, the sensor will continuously monitor and transmit the cylinder head temperature. The temperature reading will be displayed on your gauge. Monitor this reading during engine operation to ensure it remains within safe operating parameters as specified by your engine manufacturer.

- Regularly check the temperature display during engine use.
- Familiarize yourself with your engine's normal operating temperature range.
- Sudden or sustained high temperature readings may indicate an engine issue requiring immediate attention.

## MAINTENANCE

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- **Periodic Inspection:** Periodically inspect the sensor and its wiring for any signs of damage, corrosion, or loose connections.
- **Cleaning:** If necessary, gently clean the sensor body with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Spark Plug Service:** When servicing or replacing your spark plug, carefully remove and reinstall the temperature sensor to avoid damage.
- **Environmental Protection:** Ensure the wiring and connector are protected from excessive heat, moisture, and physical abrasion.

## TROUBLESHOOTING

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If you experience issues with your Koso temperature sensor, consider the following troubleshooting steps:

- **No Reading or Erratic Readings:**
  - Check all electrical connections between the sensor and the display unit. Ensure they are secure and free from corrosion.
  - Inspect the sensor wiring for any cuts, pinches, or damage.
  - Verify that the sensor is properly seated under the spark plug and that the spark plug is tightened to specification.
  - Ensure your display unit is functioning correctly by testing it with another known-good sensor if possible, or by checking its power supply.
- **Inaccurate Readings:**
  - Confirm the sensor is the correct size (14MM) for your spark plug and cylinder head.
  - Ensure there is good thermal contact between the sensor and the cylinder head.
  - Compare readings with another reliable temperature measurement device if available.
- **Sensor Failure (e.g., stops working after a period):**
  - While designed for durability, electronic components can fail over time. If all other troubleshooting steps fail, the sensor itself may be faulty and require replacement.

## SPECIFICATIONS

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Feature	Detail
Brand	Koso
Model Number	2212-0377
Sensor Size	14MM (for spark plug thread)
Product Dimensions (L x W x H)	25 x 25 x 25 mm (approx. 1 x 1 x 1 inch)
Product Weight	906 g (approx. 32 ounces)
ASIN	B007RY8G08
UPC	800124125951

## WARRANTY AND SUPPORT

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Specific warranty details for the Koso 14MM Cylinder Head Temperature Sensor (Model 2212-0377) are not provided in this document. Please refer to the original product packaging or the official Koso website for the most current warranty information.

For technical support or further assistance, please contact Koso customer service through their official website or authorized distributors. Ensure you have your product model number (2212-0377) and purchase details available when seeking support.