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Febi bilstein 174399

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Original febi bilstein Spare Part - Solutions "Made in Germany"

1. INTRODUCTION

This manual provides essential information for the febi bilstein 174399 Thermostat, an original replacement part designed for specific Mercedes-Benz vehicles. It covers product details, compatibility, installation considerations, operational principles, maintenance, and troubleshooting to ensure proper function and longevity of the component.



2. PRODUCT OVERVIEW AND FEATURES

The febi bilstein 174399 Thermostat is a critical component of your vehicle's engine cooling system. It is designed to regulate the engine's operating temperature, ensuring optimal performance and efficiency. This thermostat is manufactured to high standards, reflecting febi bilstein's commitment to quality and precision engineering.

- **Original febi bilstein Spare Part:** Manufactured in Germany, ensuring high quality and reliability.
- **Opening Temperature:** Precisely calibrated to open at 92 °C (197.6 °F) for efficient engine temperature management.
- **Integrated Components:** Supplied with a complete housing, a necessary seal for proper installation, and an integrated temperature sensor for accurate readings.
- **Weight:** Approximately 0.263 kg (0.58 lbs).

3. WHAT'S IN THE BOX

Upon opening the packaging, you will find the following components:

- One (1) febi bilstein 174399 Thermostat with housing, integrated seal, and temperature sensor.

4. VEHICLE COMPATIBILITY

This febi bilstein 174399 Thermostat is designed for specific Mercedes-Benz models. It is crucial to verify compatibility with your vehicle before installation. Always cross-reference the OE (Original Equipment) numbers and consult your vehicle's service manual or a qualified mechanic.

OE Numbers for Comparison:

- Mercedes Benz 642 200 22 15
- 6422001615
- A6422001615
- A6422002215

Example of Compatible Vehicles (Partial List):

- For C-Class Sedan (W204) C 350 CDI 4-matic (204.092) (2009-2014)
- For C-Class Sedan (W204) C 350 CDI (204.025) (2009-2014)
- For C-Class Sedan (W204) C 350 CDI 4-matic (204.089) (2009-2014)
- For C-Class Sedan (W204) C 350 CDI (204.022) (2009-2014)
- For C-Class Sedan (W204) C 350 CDI (204.023) (2011-2014)
- For C-Class Sedan (W204) C 300 CDI 4-matic (204.092) (2011-2014)
- For C-Class T-model (S204) C 300 CDI 4-matic (204.292) (2011-2014)
- For C-Class T-model (S204) C 350 CDI 4-matic (204.289) (2007-2011)
- For C-Class T-model (S204) C 350 CDI (204.225) (2007-2014)
- For C-Class T-model (S204) C 350 CDI 4-matic (204.292) (2009-2014)
- For C-Class T-model (S204) C 350 CDI (204.225) (2009-2014)
- For C-Class T-model (S204) C 350 CDI (204.223) (2011-2014)
- For E-Class Sedan (W212) E 350 BlueTEC 4-matic (212.094) (2013-2015)
- For E-Class Sedan (W212) E 350 BlueTEC (2013-2015)

- For E-Class Sedan (W212) E 300 CDI (212.020) (2009-2010)

Note: This is a partial list. Always confirm compatibility with your specific vehicle model, year, engine type, and OE part numbers before purchase and installation.

5. INSTALLATION GUIDELINES

The installation of an automotive thermostat requires specific tools, technical knowledge, and adherence to vehicle manufacturer's procedures. Improper installation can lead to engine damage, coolant leaks, or overheating. It is highly recommended that this component be installed by a qualified automotive technician.

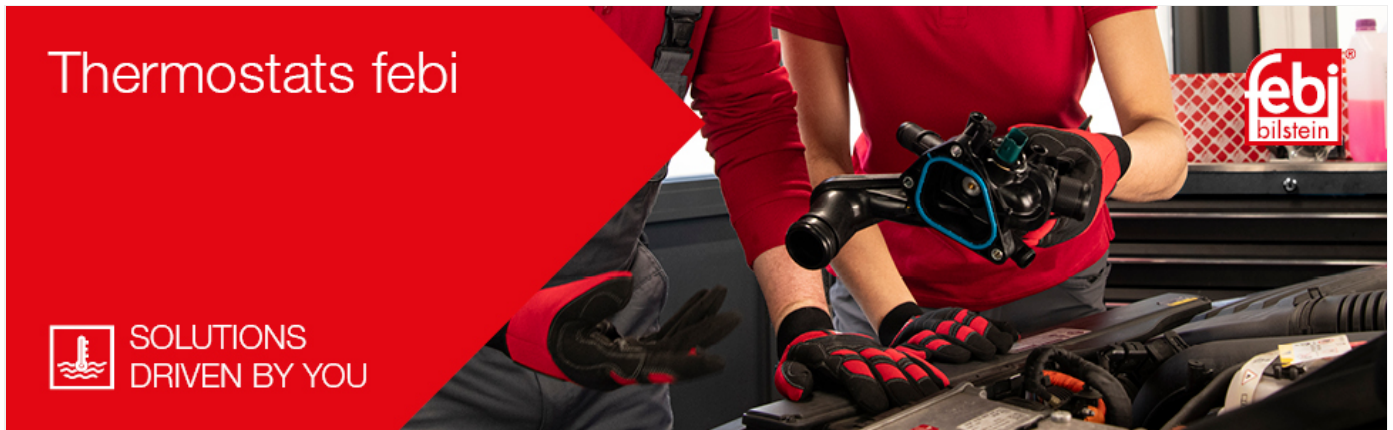


Image 2: Professional installation of a thermostat in an automotive engine bay.

General Steps (for reference only):

1. Ensure the engine is cool before beginning any work.
2. Drain a portion of the engine coolant to below the thermostat housing level.
3. Locate the thermostat housing, typically at the end of the upper radiator hose.
4. Carefully remove the housing bolts and detach the housing.
5. Remove the old thermostat and clean the mating surfaces thoroughly.
6. Install the new febi bilstein thermostat, ensuring the seal is correctly seated.
7. Reattach the housing and tighten bolts to manufacturer's specifications.
8. Refill the cooling system with the correct type and amount of coolant, and bleed any air from the system.
9. Start the engine and check for leaks and proper operating temperature.

Always refer to your vehicle's specific repair manual for detailed, model-specific instructions and torque specifications.

6. FUNCTION AND OPERATION

The thermostat's primary function is to regulate the flow of coolant between the engine and the radiator. When the engine is cold, the thermostat remains closed, preventing coolant from circulating to the radiator. This allows the engine to warm up quickly to its optimal operating temperature (92 °C for this model). Once the engine reaches this temperature, the thermostat opens, allowing coolant to flow to the radiator for cooling. As the engine temperature fluctuates, the thermostat continuously adjusts its opening to maintain a consistent and efficient operating temperature, which is crucial for fuel efficiency, emissions control, and engine longevity.

7. MAINTENANCE

While the thermostat itself is a sealed unit and does not require direct maintenance, regular maintenance of the overall

cooling system is vital for its proper function and lifespan. This includes:

- **Coolant Level Check:** Regularly check the coolant level in the reservoir and top up as needed with the correct type of coolant specified by your vehicle manufacturer.
- **Coolant Flush and Replacement:** Follow your vehicle manufacturer's recommendations for coolant flush and replacement intervals. Old or contaminated coolant can lead to corrosion and reduced cooling efficiency.
- **Hose and Clamp Inspection:** Periodically inspect radiator hoses and clamps for signs of wear, cracks, leaks, or looseness.
- **Radiator Condition:** Ensure the radiator fins are clean and free of debris to allow for efficient heat dissipation.
- **System Leaks:** Be vigilant for any signs of coolant leaks under the vehicle or around cooling system components.

8. TROUBLESHOOTING

A faulty thermostat can lead to various engine performance issues. Here are common symptoms and potential causes:

Symptom	Possible Cause (Thermostat Related)
Engine Overheating: Temperature gauge reads high, steam from engine bay.	Thermostat stuck in closed position, preventing coolant flow to radiator.
Engine Not Reaching Operating Temperature: Temperature gauge reads low, poor heater performance.	Thermostat stuck in open position, allowing constant coolant flow to radiator, even when cold.
Slow Engine Warm-up: Takes a long time for the temperature gauge to rise.	Thermostat opening too early or partially stuck open.
Fluctuating Temperature Gauge: Temperature rises and falls erratically.	Thermostat opening and closing inconsistently.

If you experience any of these symptoms, it is advisable to have your vehicle inspected by a qualified mechanic to diagnose the issue and replace the thermostat if necessary.

9. SPECIFICATIONS

Detailed technical specifications for the febi bilstein 174399 Thermostat:

Specification	Value
Manufacturer	Ferdinand Bilstein GmbH + Co. KG
Brand	Febi bilstein
Model	Thermostat
Item Weight	346 g (0.76 lbs)
Package Dimensions	130 x 111 x 105 cm (51.2 x 43.7 x 41.3 inches)
Item Model Number	174399
Manufacturer Part Number	174399
OEM Part Numbers	6422001615, 6422002215, A6422001615, A6422002215
ASIN	B09DHXYCNB
First Available Date	August 24, 2021

10. WARRANTY AND SUPPORT

For information regarding warranty coverage, returns, or technical support for your febi bilstein 174399 Thermostat, please refer to the purchase documentation or contact the seller/retailer from whom the product was acquired. You may also visit the official febi bilstein website for general product information and contact details.

febi bilstein Official Website: www.febi.com

