**Febi bilstein 05282**

# Febi bilstein 05282 Thermoswitch for Automatic Choke Instruction Manual

## 1. Introduction

This instruction manual provides essential information for the proper installation, function, and maintenance of the Febi bilstein 05282 thermoswitch. This component is designed as a direct replacement part for automatic choke systems in various automotive applications. Adherence to these instructions ensures optimal performance and longevity of the product.

## 2. Safety Information

- **Professional Installation Required:** This component must be installed by a qualified automotive technician. Improper installation can lead to vehicle malfunction or damage.
- **Application Verification:** Always check the specific vehicle application before fitting the part to ensure compatibility.
- **Contaminant Prevention:** Ensure the item is free from contaminants (dirt, debris, fluids) before and during installation to prevent operational issues.
- **Electrical Safety:** Disconnect the vehicle's battery before performing any electrical work.

## 3. Product Overview

The Febi bilstein 05282 is a thermoswitch engineered to provide reliable temperature-dependent switching for automatic choke systems. It is manufactured to match original equipment quality, ensuring a precise fit and function as a direct replacement for the original part.

**Image 1:** The Febi bilstein 05282 thermoswitch. This image displays the brass hexagonal body of the thermoswitch, featuring a threaded end for secure mounting and two flat blade terminals emerging from a red insulated base, indicating its electrical connection points. A separate view shows the terminal end directly.

## 4. Setup and Installation

1. **Preparation:** Ensure the vehicle's engine is cool and the ignition is off. Disconnect the negative terminal of the vehicle's battery.
2. **Locate Existing Component:** Identify the location of the existing thermoswitch or the designated mounting point for the automatic choke system.
3. **Remove Old Component (if applicable):** Carefully disconnect any wiring and unscrew the old thermoswitch. Be prepared for potential fluid leakage if the switch is in a coolant passage.
4. **Inspect and Clean:** Thoroughly clean the mounting area to ensure a proper seal and electrical connection. Verify that the new Febi bilstein 05282 thermoswitch matches the original part in form and fit.
5. **Install New Thermoswitch:** Screw the new thermoswitch into its designated port. Apply appropriate torque as specified by the vehicle manufacturer. Do not overtighten.
6. **Connect Wiring:** Attach the electrical connectors to the blade terminals of the thermoswitch. Ensure connections are secure and free from corrosion.
7. **Final Checks:** Reconnect the vehicle's battery. Start the engine and check for proper operation of the automatic choke system and any leaks if installed in a fluid system.

**Note:** Refer to your vehicle's specific service manual for detailed installation procedures and torque specifications.

## 5. Operation

The Febi bilstein 05282 thermoswitch operates automatically based on temperature changes. In an automatic choke system, it senses the engine's temperature (often coolant temperature) and provides an electrical signal to control the choke mechanism. When the engine is cold, the thermoswitch signals the choke to enrich the fuel mixture for easier starting. As the engine warms up, the thermoswitch signals the choke to gradually open, leaning out the fuel mixture to normal operating conditions. This ensures efficient

engine operation across various temperatures.

## 6. Maintenance

The Febi bilstein 05282 thermoswitch is designed for long-term reliability and typically requires no routine maintenance. However, periodic visual inspection during other engine maintenance tasks is recommended:

- **Check for Contaminants:** Ensure the switch and its connections remain free from dirt, oil, coolant, or other debris.
- **Inspect Wiring:** Verify that the electrical connections are secure and that the wiring insulation is intact and not frayed or damaged.
- **Leak Detection:** If the thermoswitch is installed in a fluid system, check for any signs of leakage around the mounting point.

## 7. Troubleshooting

If issues arise with the automatic choke system, the thermoswitch may be a contributing factor. Common symptoms of a faulty thermoswitch include:

- Engine running too rich (excessive fuel) when warm.
- Engine running too lean (insufficient fuel) when cold, leading to hard starting or stalling.
- Poor fuel economy.

**Diagnostic Steps:**

1. **Visual Inspection:** Check for obvious damage, loose connections, or corrosion.
2. **Electrical Testing:** A qualified technician can test the thermoswitch's continuity and resistance at various temperatures to determine if it is operating within specifications.
3. **System Check:** Verify other components of the automatic choke system are functioning correctly.

If the thermoswitch is determined to be faulty, it should be replaced with a new Febi bilstein 05282 unit.

## 8. Specifications

| Feature | Specification |
| --- | --- |
| Brand | Febi bilstein |
| Model Number | 05282 |
| Operation Mode | Automatic |
| Current Rating | 12 Amps |
| Contact Type | Arbeitskontakt |
| Connector Type | Klammer |
| Terminal | Blade |
| Circuit Type | 1-way |
| Actuator Type | Push Button |
| Contact Material | Brass Or Copper |
| Product Dimensions (L x W x H) | 8.33 x 4.78 x 2.61 inches |
| Item Weight | 0.352 ounces |
| OEM Part Numbers | 035 919 369 B, 100 683, 1193200600, 17519, 30 90 5282, 330960, 35 919 369 B, 35420, 5282, 807, D6008, V15-99-2025, XEMS30, XTS39 |

## 9. Warranty and Support

Febi bilstein products are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the official Febi bilstein website or contact your authorized dealer. Always retain your proof of purchase for warranty claims.