

UAC SW 6494C

UAC SW 6494C Thermostatic Switch Instruction Manual

Model: SW 6494C

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the UAC SW 6494C Thermostatic Switch. The SW 6494C is an Original Equipment (OE) replacement thermostatic switch designed for automotive air conditioning (A/C) systems. It plays a critical role in regulating the A/C compressor's operation based on temperature, contributing to efficient cooling performance.

2. SAFETY INFORMATION

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

- Disconnect the vehicle's battery before beginning any installation or maintenance to prevent electrical shock or damage to components.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is parked on a level surface with the parking brake engaged.
- If you are unfamiliar with automotive electrical systems, it is recommended to seek professional assistance for installation.
- Do not attempt to modify the switch or its wiring.

3. PRODUCT OVERVIEW

The UAC SW 6494C is a robust thermostatic switch manufactured to meet or exceed OEM specifications. It is designed for precise temperature sensing within the A/C system, ensuring the compressor engages and disengages at optimal points for maximum cooling efficiency and system longevity.



Figure 1: UAC SW 6494C Thermostatic Switch. This image displays the compact design of the thermostatic switch, typically featuring electrical connectors and a temperature sensing element.

4. SETUP AND INSTALLATION

The UAC SW 6494C is an OE replacement part. Installation typically involves replacing an existing thermostatic switch. Due to variations in vehicle models and A/C system configurations, specific installation steps may vary. Always refer to your vehicle's service manual for detailed instructions.

General Installation Steps:

1. **Preparation:** Ensure the vehicle is off, the ignition key is removed, and the battery's negative terminal is disconnected.
2. **Locate the Old Switch:** Identify the existing thermostatic switch in your vehicle's A/C system. Its location can vary (e.g., on the evaporator housing, accumulator, or receiver drier).
3. **Remove Old Switch:** Carefully disconnect any electrical connectors and unscrew or unclip the old switch. Be prepared for a small amount of refrigerant to escape if the switch is directly in the refrigerant line, though many are designed for external sensing.
4. **Install New Switch:** Insert the UAC SW 6494C into the mounting location. Ensure it is securely fastened and any O-rings or seals are properly seated to prevent leaks (if applicable).
5. **Connect Wiring:** Reconnect the electrical connector to the new switch, ensuring a snug fit.
6. **Final Steps:** Reconnect the vehicle's battery. If the A/C system was opened, it must be properly evacuated and recharged by a certified technician.

Professional installation is highly recommended to ensure correct fitment and proper A/C system function.

5. OPERATING INSTRUCTIONS

The UAC SW 6494C Thermostatic Switch operates automatically within your vehicle's A/C system. Its primary function is to monitor the temperature of the evaporator or refrigerant line and signal the A/C compressor to engage or disengage as needed. This process maintains the desired cabin temperature and prevents the evaporator from freezing.

- When the A/C system is activated, the switch continuously monitors temperature.
- Upon reaching a predetermined low temperature, the switch signals the compressor to disengage, preventing ice formation.
- As the temperature rises, the switch signals the compressor to re-engage, resuming the cooling cycle.

No direct user interaction is required for the operation of this component once correctly installed.

6. MAINTENANCE

The UAC SW 6494C Thermostatic Switch is a sealed, maintenance-free component. No routine user maintenance is required.

- Periodically inspect the electrical connections to the switch for corrosion or looseness. Clean connections if necessary.
- Ensure the wiring harness leading to the switch is not damaged or chafed.
- If the switch is exposed to the elements, ensure it remains free of excessive dirt or debris.

Do not attempt to disassemble or repair the switch. If a malfunction is suspected, replace the unit.

7. TROUBLESHOOTING

If your vehicle's A/C system is not functioning correctly after installing the UAC SW 6494C, consider the following common issues:

- **A/C Compressor Not Engaging:**
 - Check all electrical connections to the switch and compressor for proper seating and corrosion.
 - Verify that the A/C system has adequate refrigerant charge. Low refrigerant can prevent compressor engagement.
 - Inspect fuses and relays related to the A/C system.
- **A/C Compressor Running Continuously (Not Cycling):**
 - This could indicate a faulty thermostatic switch that is not signaling the compressor to disengage.
 - Ensure the evaporator is not excessively dirty or blocked, which can affect temperature sensing.
- **Poor Cooling Performance:**
 - While a faulty switch can contribute, poor cooling is often related to low refrigerant, a clogged condenser, or other system components.

For complex issues or if troubleshooting steps do not resolve the problem, consult a qualified automotive technician.

8. SPECIFICATIONS

Specification	Value
Brand	UAC
Model	SW 6494C
Item Model Number	SW 6494C
Manufacturer Part Number	SW 6494C

Specification	Value
OEM Part Numbers	956494; 9533N399; 1711239
Product Dimensions	12.7 x 12.7 x 7.62 cm
Item Weight	95 g
Exterior	Machined
Lift Type	On-off
Country of Origin	China

9. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please contact UAC directly or refer to the documentation provided with your purchase. Ensure you have your product model number (SW 6494C) and purchase details available when contacting support.

Manufacturer: Universal Air Conditioner
Place of Business: MANSFIELD, TX, 76063 US

ASK A QUESTION ABOUT THIS MANUAL

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

