

FUHAOPARTS F87B-13480-AB

FUHAOPARTS Brake Light Switch F87B-13480-AB for Ford Ranger (1997-2007) Instruction Manual

Model: F87B-13480-AB | Brand: FUHAOPARTS

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your FUHAOPARTS Brake Light Switch, model F87B-13480-AB. This switch is designed for specific Ford Ranger models manufactured between 1997 and 2007, and also compatible with Ford F-250 models from 2000 to 2007. Please read these instructions carefully before proceeding with installation or use to ensure safe and correct functionality.

2. SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Failure to follow safety precautions can result in injury or damage to the vehicle.

- **Disconnect Battery:** Before beginning any electrical work, disconnect the vehicle's negative battery terminal to prevent electrical shock or short circuits.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment, including safety glasses and gloves.
- **Consult Professional:** If you are unsure about any step of the installation process, it is recommended to seek assistance from a qualified automotive technician.
- **Vehicle Specifics:** Refer to your vehicle's service manual for specific procedures and torque specifications relevant to your Ford Ranger or F-250 model.

3. PRODUCT OVERVIEW

The FUHAOPARTS Brake Light Switch (Part Number F87B-13480-AB) is a critical component of your vehicle's braking system. It detects when the brake pedal is pressed and sends an electrical signal to activate the brake lights, alerting other drivers. This switch features a 5-pin connector for reliable electrical connection and is designed for direct replacement.



Image: Front view of the FUHAOPARTS Brake Light Switch, showing the main body and the 5-pin connector.



Image: Top view of the FUHAOPARTS Brake Light Switch, displaying the part number F87B-13480-AB and the 5-pin configuration.

4. INSTALLATION INSTRUCTIONS

The following steps outline a general procedure for replacing a brake light switch. Specific vehicle models may vary. Always refer to your vehicle's service manual for precise instructions and diagrams.

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and turn off the ignition. Disconnect the negative terminal of the battery to prevent accidental electrical activation.
2. **Locate Switch:** The brake light switch is typically located near the brake pedal arm, mounted to the pedal assembly or bracket under the dashboard. You may need to remove trim panels or covers to access it.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old brake light switch. This usually involves pressing a tab or releasing a clip.
4. **Remove Old Switch:** Depending on the vehicle's design, the switch may twist out, unclip, or be held in place by a retaining nut. Remove the old switch from its mounting position.
5. **Install New Switch:** Position the new FUHAOPARTS brake light switch into the mounting location. Ensure it is securely seated and properly aligned. The switch may require a specific orientation or adjustment.
6. **Connect Wiring:** Reconnect the electrical connector to the new switch. Ensure a firm and positive connection.
7. **Reconnect Battery:** Reconnect the negative battery terminal.

8. **Test Functionality:** With the ignition on (engine off), press the brake pedal to verify that the brake lights illuminate correctly and consistently. Also, check for proper operation of any other systems connected to the switch, such as cruise control disengagement.

Note: Incorrect installation can lead to brake light malfunction, which is a significant safety hazard. If you are not confident in performing this installation, consult a professional mechanic.

5. OPERATING INSTRUCTIONS

The brake light switch operates automatically as part of your vehicle's braking system. When the brake pedal is depressed, the switch completes an electrical circuit, sending power to the vehicle's brake lights, causing them to illuminate. When the pedal is released, the circuit is broken, and the brake lights turn off. After installation, it is crucial to ensure the brake lights activate immediately and consistently when the brake pedal is pressed, and turn off completely when released. Additionally, verify that any related functions, such as cruise control disengagement, operate correctly.

6. MAINTENANCE

The brake light switch is generally a maintenance-free component. However, periodic inspection can help ensure its longevity and proper function:

- **Visual Inspection:** Periodically check the switch and its wiring for any signs of physical damage, corrosion, or loose connections.
- **Functionality Check:** Regularly verify that your brake lights are working correctly. Ask someone to observe the lights while you press the brake pedal, or use a reflective surface behind the vehicle.

7. TROUBLESHOOTING

If you experience issues with your brake lights after installation or during normal operation, consider the following troubleshooting steps:

- **Brake Lights Not Working:**
 - Check brake light bulbs for burnout.
 - Inspect the brake light fuse in the vehicle's fuse box (refer to your vehicle's manual for fuse location).
 - Verify the electrical connection to the brake light switch is secure and free of corrosion.
 - Test the brake light switch for continuity using a multimeter (requires knowledge of electrical testing).
- **Brake Lights Always On:**
 - Ensure the brake pedal returns to its full resting position without any obstruction.
 - Check if the brake light switch is stuck in the "on" position or improperly adjusted.
 - Inspect for any debris or foreign objects preventing the switch from disengaging when the pedal is released.

If troubleshooting does not resolve the issue, it is recommended to consult a qualified mechanic for diagnosis and repair.

8. SPECIFICATIONS

Feature	Detail
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Part Number	F87B-13480-AB, F87Z-13480-AA
Other Compatible Part Numbers	SW5219, F87B13480AB, F87Z13480AA, SLS247
Number of Pins	5-pins
Operation Mode	ON-OFF
Contact Type	Normally Open
Connector Type	Pin
Mounting Type	Flush Mount
Actuator Type	Hinge Lever
Material	Copper (Contact Material)
Manufacturer	FUHAOPARTS
Compatible Vehicles	Ford Ranger (1997-2007), Ford F-250 (2000-2007)

9. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your FUHAOPARTS Brake Light Switch, please contact the manufacturer directly through their official channels. When contacting support, please have your product's part number (F87B-13480-AB) and vehicle information readily available. If you are unsure whether this sensor fits your car, please send your Vehicle Identification Number (VIN) to the manufacturer or seller for verification before purchase or installation.