

Performance PFM PFM-200586

Performance PFM-200586 Headlight Instruction Manual

Model: PFM-200586

|          |              |                    |                  |                 |                |
|----------|--------------|--------------------|------------------|-----------------|----------------|
|          | Introduction | Safety Information | Package Contents | Product         |                |
| Overview | Installation | Operation          | Maintenance      | Troubleshooting | Specifications |
|          |              |                    | Support          |                 | Warranty &     |

1. INTRODUCTION

This instruction manual provides comprehensive guidance for the installation, operation, and maintenance of your new Performance PFM-200586 Headlight set. These headlights are designed as a direct OE replacement for 2004, 2005, and 2006 Kia Spectra and Spectra5 models, ensuring quality construction and precise fitment. Please read this manual thoroughly before beginning any installation to ensure proper function and safety.

2. SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Failure to follow these safety guidelines may result in injury or damage to the vehicle.

- **Disconnect Battery:** Before starting any electrical work, disconnect the vehicle's negative battery terminal to prevent electrical shock or short circuits.
- **Wear Protective Gear:** Always wear safety glasses and gloves to protect your eyes and hands from debris and sharp edges.
- **Vehicle Stability:** Ensure the vehicle is parked on a level surface and the parking brake is engaged. If lifting the vehicle, use appropriate jack stands.
- **Professional Installation:** If you are unsure about any step of the installation process, it is recommended to seek assistance from a qualified automotive technician.
- **Handle with Care:** Headlight assemblies contain delicate components. Handle them carefully to avoid damage to the lens or internal parts.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- 1 x Performance PFM-200586 Headlight Assembly (Driver Side)

- 1 x Performance PFM-200586 Headlight Assembly (Passenger Side)

## 4. PRODUCT OVERVIEW

The Performance PFM-200586 Headlight set includes both driver and passenger side assemblies, designed for a direct fit and easy installation. These units are manufactured to meet or exceed original equipment specifications, ensuring reliable performance and clear illumination.



Figure 4.1: Front view of the Performance PFM-200586 Headlight set, showing both driver and passenger side assemblies.



Figure 4.2: Detailed front view of a single Performance PFM-200586 Headlight assembly, highlighting the lens and bulb areas.



Figure 4.3: Rear view of the headlight assembly, showing the mounting points and electrical connectors for installation.

## 5. INSTALLATION GUIDE

Follow these steps carefully for proper installation of your new headlights. Refer to your vehicle's service manual for specific details on bumper removal or other vehicle-specific procedures if necessary.

### 5.1 Tools Required

- Socket Wrench Set
- Screwdriver Set (Phillips and Flathead)
- Plastic Trim Removal Tool (optional, for trim clips)
- Safety Glasses and Gloves

### 5.2 Installation Steps

1. **Prepare Vehicle:** Park the vehicle on a flat, stable surface. Engage the parking brake. Disconnect the negative terminal of the vehicle's battery.
2. **Access Headlight Assembly:** Depending on your Kia Spectra/Spectra5 model year (2004-2006), you may need to partially remove the front bumper or fender liner to access the headlight mounting bolts. Consult your vehicle's service manual for precise instructions.
3. **Remove Old Headlight:**
  - Locate and remove all mounting bolts/screws securing the existing headlight assembly. These are typically found on the top, side, and sometimes bottom of the assembly.
  - Carefully pull the old headlight assembly away from the vehicle.
  - Disconnect all electrical connectors from the back of the headlight assembly. Twist and remove any bulbs if they are to be transferred to the new assembly (new headlights typically come without bulbs).
4. **Install New Headlight:**
  - Connect all electrical connectors to the new Performance PFM-200586 Headlight assembly. Ensure connections are secure and fully seated.



Figure 5.1: Example of a main electrical connector on the headlight assembly. Ensure it clicks into place.

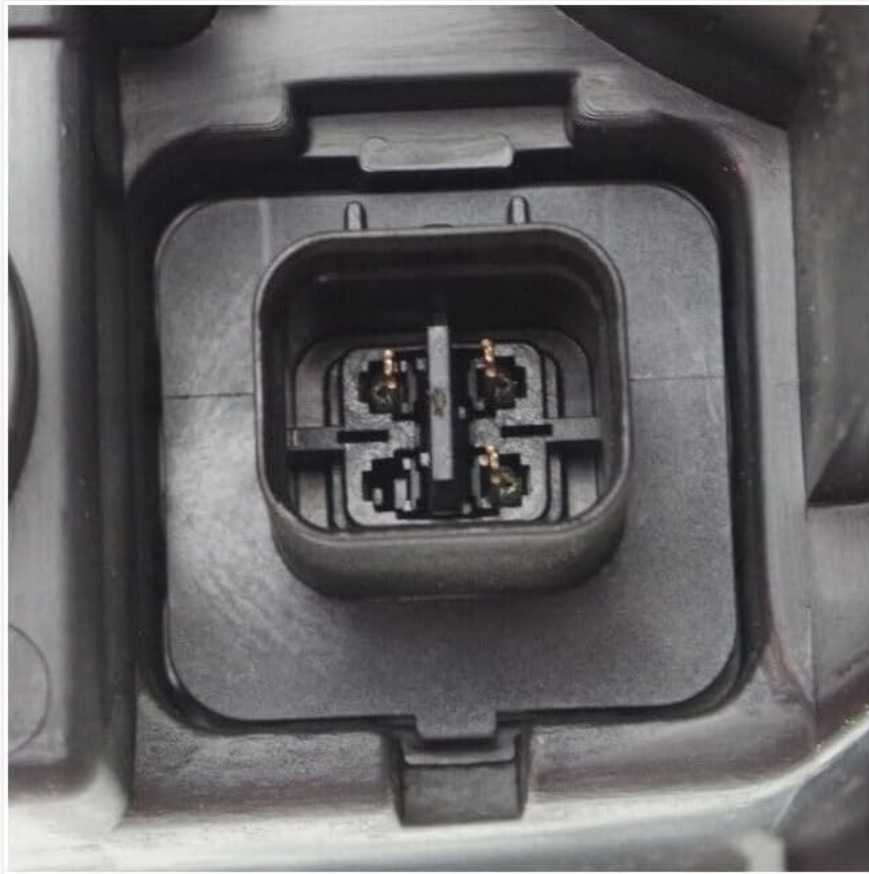


Figure 5.2: Another view of an electrical connection point. Verify all necessary connections are made.

- Carefully position the new headlight assembly into the vehicle's headlight opening, aligning it with the mounting points.
  - Reinstall all mounting bolts/screws removed in step 3. Tighten them securely, but do not overtighten.
5. **Reassemble Vehicle:** Reinstall any bumper or fender liner components that were removed.
  6. **Reconnect Battery:** Reconnect the negative battery terminal.
  7. **Test Functionality:** Proceed to the "Operation" section to test your new headlights.

## 6. OPERATION AND TESTING

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After installation, it is crucial to test the functionality of your new headlights.

1. **Initial Check:** Turn on your vehicle's ignition (engine off) and activate the headlights. Verify that both low beams and high beams illuminate correctly.
2. **Turn Signals and Parking Lights:** Test the turn signals and parking lights to ensure they are functioning properly within the new assembly.
3. **Headlight Aiming:** After installation, it is highly recommended to have your headlights professionally aimed. Improperly aimed headlights can reduce visibility for you and blind oncoming drivers. Consult your vehicle's service manual or a qualified technician for aiming procedures.

## 7. MAINTENANCE

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Proper maintenance will extend the life and performance of your headlights.

- **Regular Cleaning:** Clean the headlight lenses regularly with a soft cloth and mild automotive soap or glass cleaner. Avoid abrasive cleaners or harsh chemicals that can damage the lens coating.
- **Inspect for Damage:** Periodically inspect the headlight assemblies for cracks, moisture intrusion, or loose

connections. Address any issues promptly.

- **Bulb Replacement:** If a bulb burns out, replace it with the correct type and wattage specified for your vehicle. Refer to your vehicle's owner's manual for bulb specifications and replacement procedures.

## 8. TROUBLESHOOTING

This section addresses common issues you might encounter with your headlights.

| Problem                    | Possible Cause                             | Solution                                                                                                     |
|----------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Headlight not illuminating | Blown fuse                                 | Check and replace relevant fuse in fuse box.                                                                 |
|                            | Loose or disconnected electrical connector | Verify all electrical connectors are securely attached.                                                      |
|                            | Faulty bulb                                | Replace the headlight bulb.                                                                                  |
|                            | Wiring issue                               | Inspect wiring for damage; consult a technician if needed.                                                   |
| Dim or flickering light    | Poor electrical connection                 | Check and clean electrical contacts.                                                                         |
|                            | Aging bulb                                 | Replace the bulb.                                                                                            |
|                            | Voltage issue                              | Have vehicle's electrical system checked by a professional.                                                  |
| Moisture inside headlight  | Seal integrity compromised                 | Ensure all caps and seals are properly seated. If persistent, the seal may be faulty, requiring replacement. |
|                            | Condensation (minor, temporary)            | Small amounts of condensation are normal and should dissipate. If excessive or persistent, contact support.  |

## 9. SPECIFICATIONS

| Feature               | Detail                                                             |
|-----------------------|--------------------------------------------------------------------|
| Brand                 | Performance PFM                                                    |
| Model Number          | PFM-200586                                                         |
| Compatible Vehicles   | 2004-2006 Kia Spectra, Spectra5                                    |
| Part Type             | Headlight Assembly (Driver and Passenger Side)                     |
| Replaces Part Numbers | 921022F230, KI2503117, 921012F230, KI2502117                       |
| Included Components   | 2 x Automotive Headlight Assemblies                                |
| Item Weight           | 12.8 ounces (per assembly, approx.)                                |
| Product Dimensions    | 5"L x 5"W x 1"H (packaging dimensions, actual product size varies) |
| Country of Origin     | Taiwan                                                             |

## 10. WARRANTY AND SUPPORT

## 10.1 Warranty Information

This Performance PFM Headlight set is backed by a **1-year unlimited-mileage warranty**. This warranty covers defects in material and workmanship under normal use and service. For specific terms and conditions, please refer to the warranty documentation included with your purchase or contact Performance PFM customer support.

## 10.2 Customer Support

If you have any questions, require technical assistance, or need to make a warranty claim, please contact Performance PFM customer support. You can also visit the official Performance PFM store for more information and products:

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