

SanmeiLi 6189-0039

SanmeiLi 2 Pin 2.0 MM Auto Waterproof Cable Connector

MODEL: 6189-0039 USER MANUAL

Brand: SanmeiLi

1. Introduction

This manual provides detailed instructions for the proper installation, operation, and maintenance of the SanmeiLi 2 Pin 2.0 MM Auto Waterproof Cable Connector, model 6189-0039. This connector is designed for automotive applications, specifically for fuel injector and other electronic plug connections where a waterproof and reliable seal is essential. Please read this manual thoroughly before use to ensure safe and effective application.

2. Safety Information

- Always disconnect the vehicle's battery before working on electrical systems to prevent short circuits or electrical shock.
- Ensure proper insulation and crimping of wires to prevent loose connections or electrical hazards.
- Use appropriate tools for crimping terminals to ensure a secure and reliable connection.
- Verify the correct pin orientation before inserting terminals into the connector housing.
- Keep the connector and terminals clean and free from debris during installation.
- If unsure about any step, consult a qualified automotive technician.

3. Product Overview

The SanmeiLi 2 Pin 2.0 MM Auto Waterproof Cable Connector (6189-0039) consists of a male and female housing, terminals, and rubber seals designed to create a waterproof connection. It is commonly used in automotive wiring harnesses for components like fuel injectors, sensors, and other electronic devices requiring environmental protection.

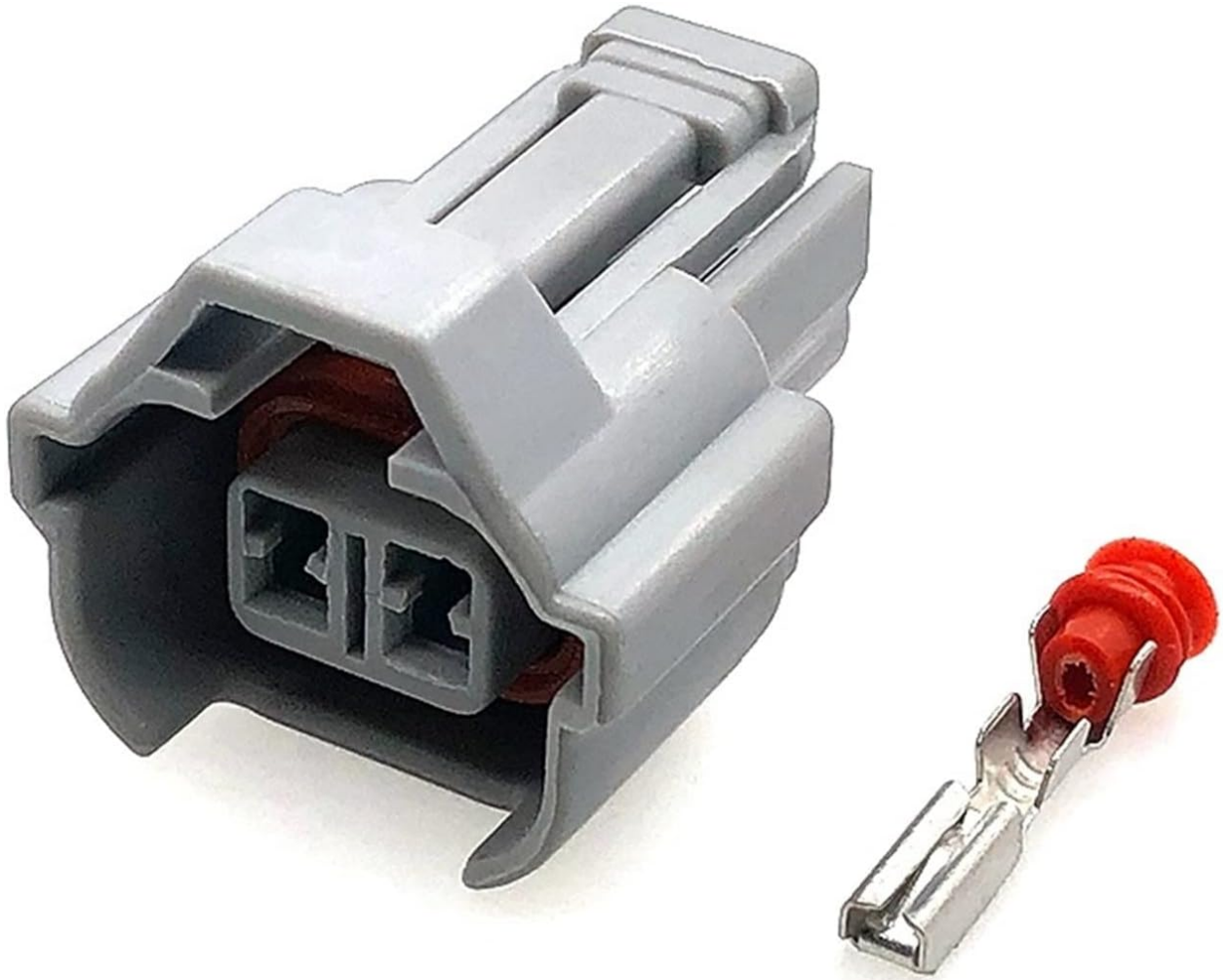


Figure 3.1: Front view of the 2-pin connector housing with a terminal and red seal. This image shows the main connector body and one of the metal terminals with its red waterproof seal, ready for assembly.

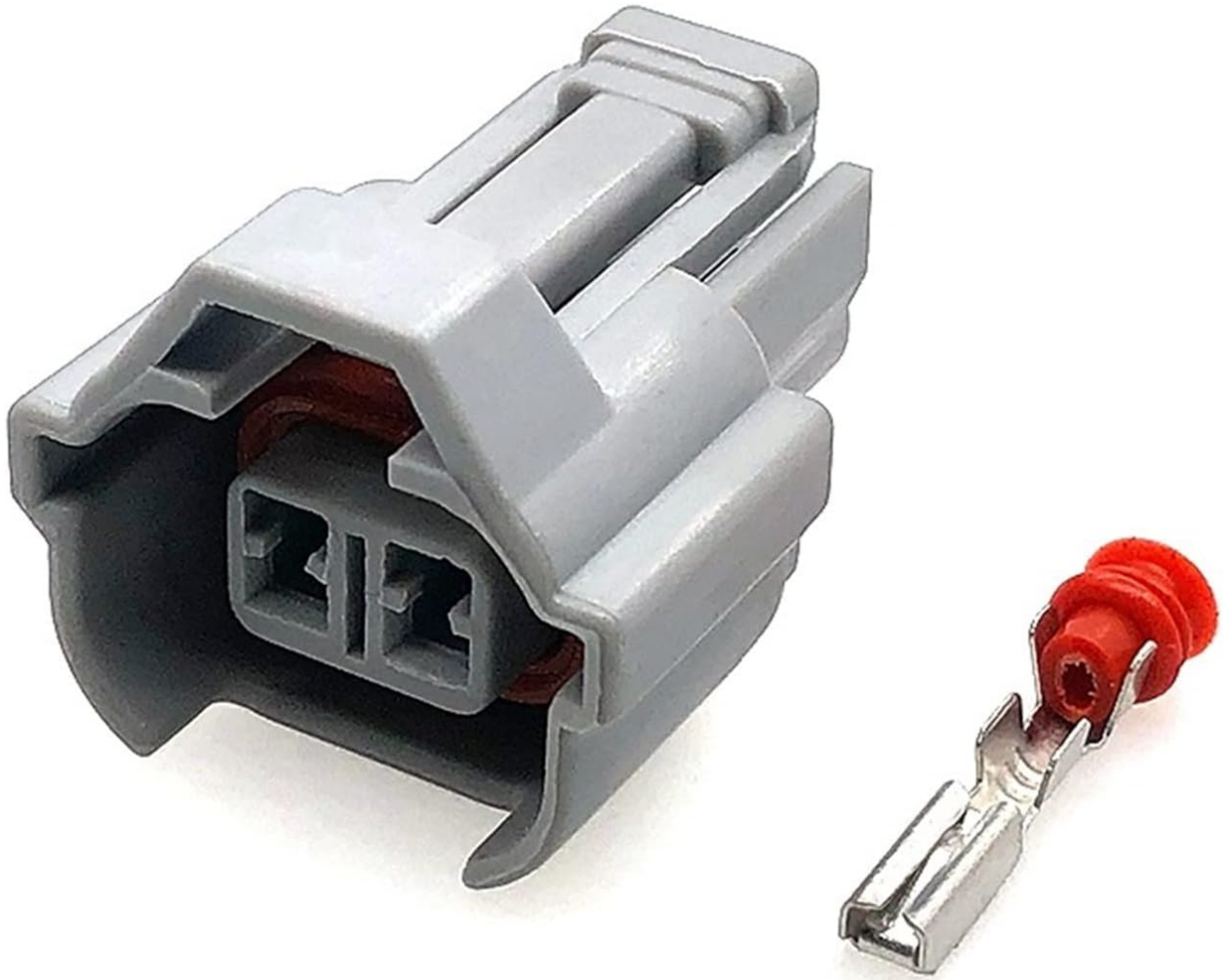


Figure 3.2: Side view of the connector housing and terminal. This perspective highlights the locking tab on the connector and the crimp area of the terminal.

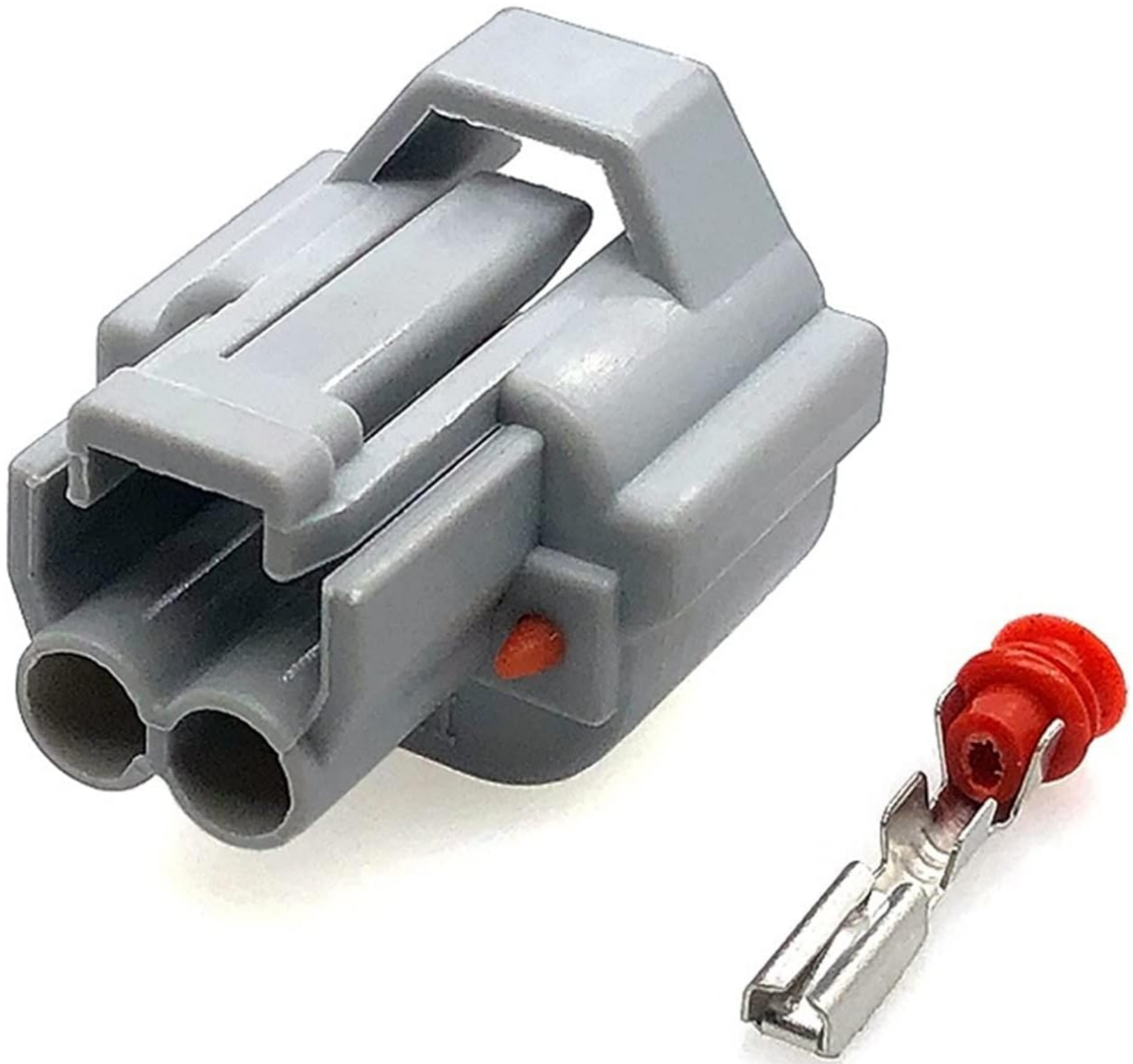


Figure 3.3: Rear view of the connector housing, showing the wire entry points. This view illustrates where the wires, once crimped to the terminals, will enter the connector body.

4. Setup and Installation

Follow these steps for proper installation of the SanmeiLi 2 Pin 2.0 MM Auto Waterproof Cable Connector:

1. **Prepare Wires:** Strip approximately 5-7mm of insulation from the ends of the wires to be connected. Ensure the wire gauge is compatible with the terminals (typically 2.0 MM).
2. **Install Seals:** Slide the small red rubber seals onto the stripped end of each wire. These seals are crucial for the waterproof integrity of the connection.
3. **Crimp Terminals:** Insert the stripped wire end into the metal terminal. Using a proper crimping tool, crimp both the wire conductor and the insulation sections of the terminal securely. A good crimp should be mechanically strong and electrically sound.
4. **Insert Terminals into Housing:** Carefully push the crimped terminals, with the rubber seals, into the correct cavities of the connector housing (male or female). Ensure the terminal clicks into place, indicating that the locking tab within the housing has engaged. Gently tug on the wire to confirm it is securely seated.
5. **Connect Housings:** Align the male and female connector housings and push them together firmly until they click, indicating a secure and waterproof connection.

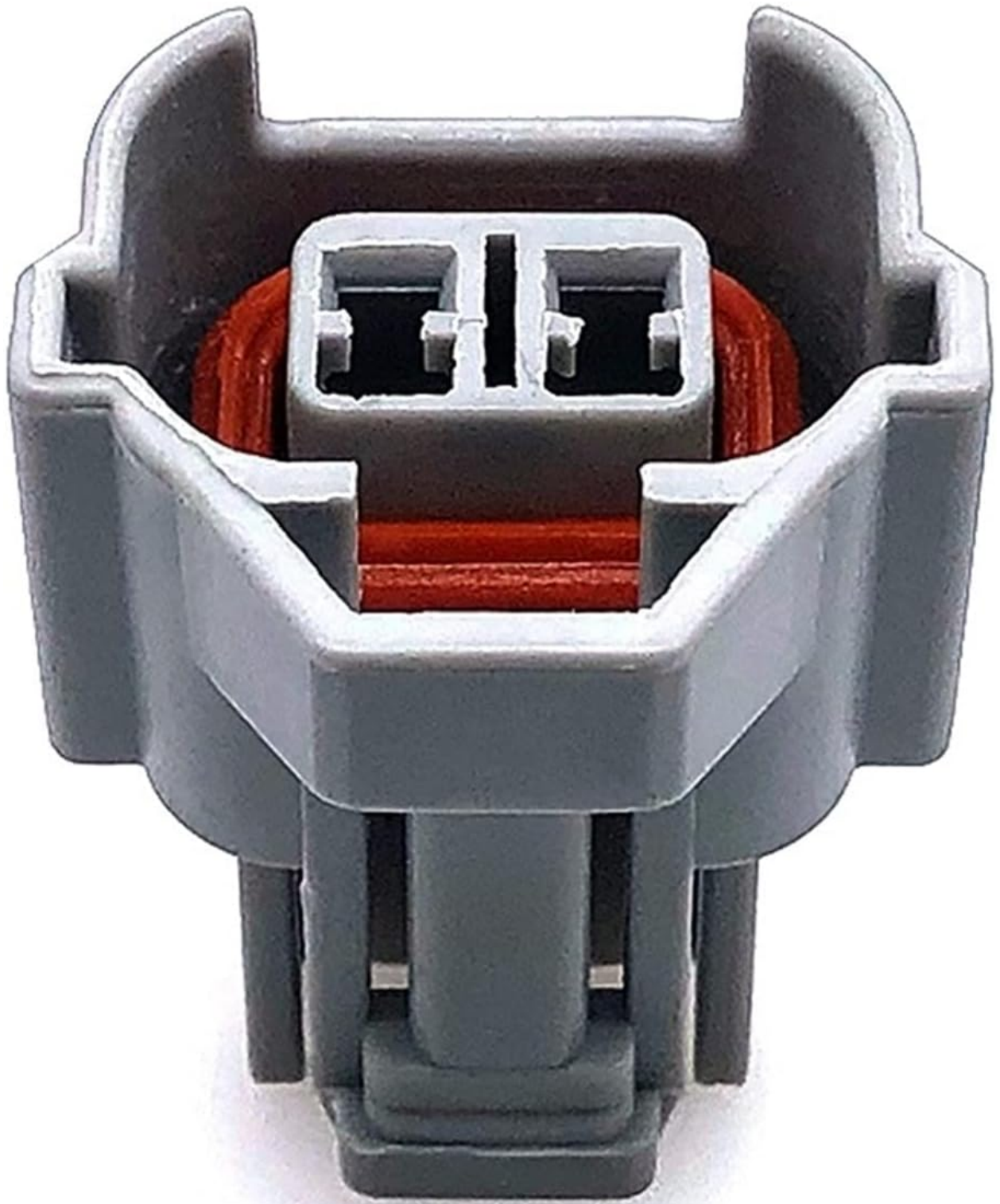


Figure 4.1: Assembled connector showing the male and female parts joined. This image demonstrates how the two halves of the connector fit together to form a complete, sealed unit.

5. Operating Considerations

Once installed, the SanmeiLi 2 Pin 2.0 MM Auto Waterproof Cable Connector operates passively as a secure electrical connection. Key considerations include:

- **Secure Connection:** Ensure the male and female connectors are fully engaged and locked to maintain waterproof integrity and electrical continuity.
- **Environmental Protection:** The seals provide protection against moisture, dust, and other environmental

contaminants, making it suitable for harsh automotive environments.

- **Disconnection:** To disconnect, press the locking tab (if present) and pull the connectors apart. Avoid pulling directly on the wires.

6. Maintenance

The SanmeiLi 2 Pin 2.0 MM Auto Waterproof Cable Connector requires minimal maintenance. However, periodic inspection is recommended:

- **Visual Inspection:** Periodically check the connector for any signs of damage, cracks, or corrosion.
- **Cleanliness:** If exposed to dirt or grime, gently clean the exterior of the connector with a damp cloth. Avoid using harsh chemicals that could degrade the plastic or rubber seals.
- **Seal Integrity:** Ensure the rubber seals are not cracked, torn, or displaced, as this could compromise the waterproof rating.
- **Connection Security:** Verify that the connection remains tight and secure, especially in high-vibration environments.

7. Troubleshooting

Problem	Possible Cause	Solution
No electrical continuity	Poorly crimped terminals, terminals not fully seated, damaged wire, corrosion.	Re-crimp terminals, ensure terminals click into place, inspect wires for breaks, clean contacts.
Connector not waterproof	Seals improperly installed or damaged, connector not fully engaged.	Ensure seals are correctly positioned, push connectors together until they click. Replace damaged seals.
Connector difficult to connect/disconnect	Misalignment, debris, damaged locking tab.	Check alignment, clean out any debris, inspect locking tab for damage. Do not force.

8. Specifications

Feature	Detail
Product Type	Auto Waterproof Cable Connector
Model Number	6189-0039
Number of Pins	2 Pin
Pin Size	2.0 MM
Material	Plastic housing, metal terminals, rubber seals
Waterproof Rating	Yes (designed for waterproof applications)
Typical Application	Car Fuel Injector, Automotive Electronic Plugs
Item Weight	Approximately 1.76 ounces (for the set)

Feature	Detail
Package Dimensions	Approximately 1.18 x 0.79 x 0.39 inches

9. Warranty and Support

For warranty information or technical support regarding your SanmeiLi 2 Pin 2.0 MM Auto Waterproof Cable Connector, please refer to the seller's policies on the platform where the product was purchased or contact SanmeiLi customer service directly. Keep your purchase receipt as proof of purchase.

For general inquiries, you may visit the [product page on Amazon](#).