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> [WATERWICH](#) /

> WATERWICH 4-Pin Trailer Wiring Harness Instruction Manual for Hyundai, Kia (Replacement for 56420)

WATERWICH 56420

WATERWICH 4-Pin Trailer Wiring Harness Instruction Manual

Model: 56420

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation and use of the WATERWICH 4-Pin Trailer Wiring Harness. This harness is designed to facilitate the connection of trailer tail lights, brake lights, and turn signal lights to your vehicle's electrical system, ensuring safe and compliant towing.



Image 1.1: Overview of the WATERWICH 4-Pin Trailer Wiring Harness installed on a vehicle.

2. COMPATIBLE VEHICLES

This 4-Pin Trailer Wiring Harness is a direct replacement for OEM Part Number 56420 and is compatible with the following vehicle models:

- **Hyundai Santa Fe:** 2019-2023 (Excluding XL Models)
- **Hyundai Palisade:** 2020-2022
- **Hyundai Santa Cruz:** 2022-2024
- **Hyundai Tucson:** 2022-2023
- **Kia Telluride:** 2020-2022
- **Kia Carnival:** 2022-2024
- **Kia Sorento:** 2021-2023 (Excluding Hybrid Models)

Reliable Material

High strength

Good toughness

Long service life



Image 2.1: Visual representation of compatible vehicle models.

3. PRODUCT FEATURES

3.1. Reliable Material

The harness is constructed with durable wires and a solid 4-pin trailer plug, ensuring high strength, good toughness, and a long service life. Materials include copper for optimal conductivity and rubber/TPE for insulation and protection.

Durable Protection

Rubber Dust Cover Protection

Prevent dust and water

Avoid short circuit and rust



Image 3.1: The harness showcasing its robust construction and materials.

3.2. Durable Protection

The 4-Pin Trailer Wiring Connector is equipped with a rubber dust cover. This cover provides double protection for the wiring harness terminals, preventing damage from dust and water, and guarding against short circuits and rust. It can be easily installed over the 4-wire plug when not in use.

Easy to Install

Just plug and play

Without extra cutting and splicing



Image 3.2: The rubber dust cover protecting the 4-pin connector.

4. SETUP AND INSTALLATION

The WATERWICH 4-Pin Trailer Wiring Harness is designed for a direct plug-and-play installation, simplifying the process and eliminating the need for additional cutting or splicing of wires. Follow these general steps for installation:

1. **Locate Vehicle Connector:** Refer to your vehicle's owner's manual to locate the factory trailer wiring connector, typically found near the rear bumper or inside the trunk/cargo area.
2. **Connect Harness:** Plug the vehicle-specific connector of the WATERWICH harness into the corresponding factory connector on your vehicle. Ensure a secure and snug fit.
3. **Route Wiring:** Carefully route the 4-pin trailer connector end of the harness to the exterior of the vehicle, ensuring it is secured away from moving parts, exhaust, and sharp edges. Use the provided zip ties to secure the wiring.
4. **Mount Converter Box:** If applicable, mount the converter box to a secure, dry location within the vehicle's chassis using the provided mounting screw or zip ties.
5. **Test Connection:** Before towing, connect a trailer or a trailer light tester to the 4-pin connector and verify that all

trailer lights (tail lights, brake lights, turn signals) function correctly.

Product Dimension



Image 4.1: The plug-and-play connector for easy installation.

5. OPERATING INSTRUCTIONS

Once the WATERWICH 4-Pin Trailer Wiring Harness is installed, operating it is straightforward:

1. **Connect Trailer:** Align the 4-pin connector from your vehicle's harness with the 4-pin receptacle on your trailer. Push firmly to ensure a complete and secure connection.
2. **Verify Lights:** Before driving, always perform a visual check to ensure all trailer lights (running lights, brake lights, left turn signal, right turn signal) are functioning correctly in sync with your vehicle's lights.
3. **Disconnect Trailer:** When disconnecting the trailer, firmly grasp the 4-pin connector and pull it straight out from the trailer's receptacle. Avoid pulling on the wires.
4. **Protect Connector:** After disconnecting, place the rubber dust cover over the 4-pin connector on your vehicle's harness to protect it from environmental elements.

6. MAINTENANCE

To ensure the longevity and reliable performance of your WATERWICH 4-Pin Trailer Wiring Harness, follow these maintenance guidelines:

- **Regular Inspection:** Periodically inspect the entire wiring harness, including the connectors, wires, and converter box, for any signs of wear, fraying, cuts, or corrosion.
- **Keep Clean:** Keep the 4-pin connector and its receptacle clean and free of dirt, debris, and moisture. Use a soft brush or compressed air to clean the pins if necessary.
- **Protect from Elements:** Always use the rubber dust cover on the 4-pin connector when it is not connected to a trailer. This prevents water, dust, and road grime from entering the terminals.
- **Corrosion Prevention:** If operating in corrosive environments (e.g., near saltwater, salted roads), consider applying dielectric grease to the connector pins to further prevent corrosion.

7. TROUBLESHOOTING

If you encounter issues with your trailer lights after installing the harness, consider the following troubleshooting steps:

- **No Trailer Lights:**
 - Ensure the 4-pin connector is fully seated and securely connected to the trailer's receptacle.
 - Check the vehicle-side connection of the harness to the factory wiring.
 - Inspect the vehicle's fuses related to trailer lighting.
 - Test the trailer lights directly with a known good power source to rule out trailer wiring issues.
- **Specific Light Not Working (e.g., Brake Light, Turn Signal):**
 - Verify the corresponding bulb on the trailer is not burnt out or loose.
 - Check the specific wire for that function on both the vehicle and trailer side for damage or poor connection.
- **Intermittent Lights:**
 - Inspect all connections for looseness or corrosion.
 - Ensure the ground wire for both the vehicle and trailer is securely attached to a clean, unpainted metal surface.

If issues persist after troubleshooting, consult a qualified automotive technician.

8. SPECIFICATIONS

OEM Part Number Replacement	56420
Brand	WATERWICH
Material	Copper, Rubber/Tpe
Item Weight	0.33 Kilograms (11.6 ounces)
Connector Type	4-pin
Package Dimensions	5.51 x 3.94 x 3.15 inches

Package Includes



Image 8.1: Product dimensions for reference.

9. PACKAGE CONTENTS

The WATERWICH 4-Pin Trailer Wiring Harness package typically includes:

- 1x WATERWICH 4-Pin Trailer Wiring Harness
- Installation Instructions
- Zip Ties for securing wiring
- Mounting Screw (for converter box, if applicable)

Compatible Vehicles

- Replacement for 56420
- Compatible with HYUNDAI PALISADE 2020-2022
- Compatible with HYUNDAI SANTA CRUZ 2022-2024
- Compatible with HYUNDAI SANTA FE, EXCEPT XL MODELS 2019-2023
- Compatible with HYUNDAI TUCSON 2022-2023
- Compatible with KIA CARNIVAL 2022-2024
- Compatible with KIA SORENTO, EXCLUDING HYBRID 2022-2023
- Compatible with KIA TELLURIDE 2020-2022



Image 9.1: Contents included in the WATERWICH 4-Pin Trailer Wiring Harness package.