

PWR+ PWR-TC002001-A03

PWR+ 7-Way Trailer Plug Connector Cord Instruction Manual

Model: PWR-TC002001-A03 | Brand: PWR+

1. INTRODUCTION

This manual provides comprehensive instructions for the PWR+ 7-Way Trailer Plug Connector Cord, Model PWR-TC002001-A03. This heavy-duty, weatherproof, and corrosion-resistant cable is designed for reliable electrical connection between a towing vehicle and a trailer, RV, camper, or other towed vehicles. It features a 12-foot extra-long cord with 7-way copper spade double prongs molded into a robust plug head. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. PRODUCT FEATURES

- **Length:** 12-foot extra-long cord for extended reach.
- **Connector Type:** 7-way copper spade double prongs molded into a heavy-duty plug head.
- **Wire Gauge:** AWG Copper 2/10-1/12-4/14.
- **Durability:** Weather-resistant wires coated with thick, rubber-like insulation for kink-free flexibility.
- **Safety:** Thermoplastic insulation capable of bearing up to 105°C Dry (60°CET) conditions. Waterproof, dustproof, and corrosion-resistant.
- **Compatibility:** Suitable for RVs, trailers, campers, caravans, trucks, food vans, and other towed vehicles.



Figure 2.1: Overview of the PWR+ 7-Way Trailer Plug Connector Cord, showing the coiled cable, plug, and exposed wire ends.

USE WITH ANY 7-WAY TRAILER END

Solid rugged cord is perfect for RVs, Trailers, Campers, Caravans, Trucks, Food Vans and other Towed Vehicles



Figure 2.2: Illustration demonstrating the versatility of the cord for use with RVs, trailers, campers, and other towed vehicles.

3. SETUP AND INSTALLATION

The PWR+ 7-Way Trailer Plug Connector Cord is designed for quick and easy installation into a junction box. The exposed wire ends are color-coded for straightforward connection. It is crucial to correctly match the wiring to your trailer's system.

3.1 Wiring Diagram (RV Standard)

The actual wiring color codes in this product match the RV Standard. Please note that some trailer wiring color codes may vary. Always verify your trailer's specific wiring diagram before making connections.

1. **White (10AWG):** Ground (-)
2. **Blue (12AWG):** Electric Brakes
3. **Brown (14AWG):** Right Turn/Stop
4. **Black (10AWG):** 12V (+)/Auxiliary
5. **Red (14AWG):** Left Turn/Stop
6. **Green (14AWG):** Running/Tail Lights
7. **Yellow (14AWG):** Reverse Lights

RV STANDARD



Figure 3.1: Detailed wiring diagram for the 7-pin connector, adhering to the RV Standard color codes and functions.

3.2 Connection Steps

1. Ensure all power sources are disconnected from both the towing vehicle and the trailer before beginning installation.
2. Identify the corresponding wires in your trailer's junction box or wiring harness.
3. Strip the ends of the wires from the PWR+ cord and your trailer's wiring, if necessary, to expose clean copper.
4. Connect the wires according to the RV Standard wiring diagram (Figure 3.1) and your trailer's specific wiring. Use appropriate connectors (e.g., crimp connectors, wire nuts) to ensure secure and insulated connections.
5. Once all connections are made, secure the junction box cover and ensure all wiring is protected from environmental elements.
6. Test all trailer lights and functions (turn signals, brake lights, running lights, reverse lights, electric brakes, auxiliary power) before operating the vehicle.

4. OPERATING INSTRUCTIONS

After successful installation, connect the 7-way plug of the PWR+ cord to the corresponding receptacle on your towing vehicle. Ensure the connection is firm and secure. The cord will transmit power and signals for all standard

trailer functions, including lighting, braking, and auxiliary power.

- Always ensure the plug is fully seated in the vehicle's receptacle before driving.
- Periodically check the connection during long trips to ensure it remains secure.
- Disconnect the plug by grasping the connector body, not by pulling the cable.

5. MAINTENANCE

The PWR+ 7-Way Trailer Plug Connector Cord is designed for durability and minimal maintenance. Its weatherproof and corrosion-resistant properties help ensure long-term performance.

- **Regular Inspection:** Periodically inspect the cable and plug for any signs of wear, cuts, cracks, or corrosion.
- **Cleaning:** Keep the plug contacts clean and free of dirt, debris, and moisture. A dielectric grease can be applied to the contacts to prevent corrosion and improve conductivity.
- **Storage:** When not in use, store the cable in a clean, dry place, preferably coiled neatly to prevent kinks or damage.



Figure 5.1: Illustration detailing the premium copper wires, unique color coding, and thermoplastic insulation for enhanced safety and durability.

6. TROUBLESHOOTING

If you experience issues with your trailer's electrical system after installing the PWR+ 7-Way Trailer Plug Connector Cord, consider the following:

- **No Power/Lights:**
 - Verify the plug is fully seated in the vehicle's receptacle.
 - Check the vehicle's fuses and the trailer's wiring for any blown fuses or loose connections.
 - Ensure the ground wire (White, 10AWG) is securely connected.
- **Incorrect Light Function (e.g., brake lights activate turn signals):**
 - This often indicates a wiring mismatch. Carefully re-check your connections against the RV Standard wiring diagram (Figure 3.1) and your trailer's specific wiring. Remember that some trailers may use different color codes than the RV Standard.
 - Use a multimeter to confirm continuity and correct pin assignments if uncertainty persists.
- **Intermittent Connection:**
 - Inspect the plug's copper contacts for dirt, corrosion, or deformation. Clean or gently adjust contacts if necessary.
 - Ensure the cable is not excessively strained or kinked, which could lead to internal wire damage.

7. SPECIFICATIONS

Feature	Specification
Model Number	PWR-TC002001-A03
Brand	PWR+
Connector Type	7-way Trailer Plug
Cable Length	12 Feet
Material	Copper, Rubber
Wire Gauge	AWG Copper 2/10-1/12-4/14
Item Weight	3.57 pounds (approx. 1.62 kg)
Package Dimensions	9.9 x 9.7 x 2.3 inches
Date First Available	August 30, 2017

8. WARRANTY AND SUPPORT

PWR+ stands behind the quality of its products.

- **Warranty:** This product comes with a 30-day refund policy and a 24-month exchange warranty.
- **Customer Support:** PWR+ is a Washington, USA-based company with dedicated customer support experts available to assist you.



Figure 8.1: The PWR+ 2-Year Warranty badge, signifying product reliability and support.

For warranty claims or technical assistance, please refer to the contact information provided with your purchase or visit the official PWR+ website.