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ACPS-ORIS 010-178

ACPS-ORIS 010-178 Trailer Hitch Electrical Kit User Manual

Model: 010-178

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your ACPS-ORIS 010-178 Trailer Hitch Electrical Kit. This kit is designed to provide the necessary electrical connections for trailer lighting systems when a tow bar is installed on a vehicle. Please read this manual thoroughly before beginning any installation or use.

2. Safety Information

Always prioritize safety when working with electrical components and vehicle systems. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Professional Installation Recommended:** Installation of this electrical kit requires knowledge of vehicle electrical systems. It is highly recommended that installation be performed by a qualified professional.
- **Disconnect Battery:** Always disconnect the vehicle's battery before performing any electrical work to prevent short circuits and electrical shock.
- **Use Proper Tools:** Ensure you have the correct tools for the job, including wire strippers, crimpers, multimeters, and safety glasses.
- **Check Wiring Diagrams:** Always refer to your vehicle's specific wiring diagrams and the kit's instructions for correct connections.
- **Secure Connections:** Ensure all electrical connections are secure and properly insulated to prevent corrosion and short circuits.
- **Test Functionality:** After installation, thoroughly test all trailer lighting functions (turn signals, brake lights, tail lights) before driving.
- **Keep Away from Moving Parts:** Route all wiring away from hot exhaust components, sharp edges, and moving parts of the vehicle.

3. Package Contents

Please verify that all components listed below are present in your package. If any items are missing or damaged, contact

your supplier immediately.



Figure 3.1: Overview of the ACPS-ORIS 010-178 electrical kit components. This image displays the main wiring harness, a 7-pin trailer socket, various blue quick-splice connectors, nuts, bolts, and cable ties.



Figure 3.2: A more comprehensive view of the ACPS-ORIS 010-178 kit, including a control module (labeled ORIS), additional wiring, and various connection accessories.

- Main Wiring Harness with Vehicle-Specific Connectors
- 7-Pin Trailer Socket (or equivalent)
- Control Module (if applicable for your vehicle model)
- Various Electrical Connectors (e.g., quick-splice, ring terminals)
- Mounting Hardware (screws, nuts, washers)
- Cable Ties for securing wiring
- Instruction Manual (this document)

4. Setup and Installation

This section provides a general overview of the installation process.**Always refer to the detailed vehicle-specific installation instructions provided with your kit or available from ACPS-ORIS for precise steps.**

1. **Preparation:**
    - Park the vehicle on a level surface and engage the parking brake.
    - Disconnect the negative terminal of the vehicle's battery.
    - Gather all necessary tools and safety equipment.
2. **Access Vehicle Wiring:**

- Depending on your vehicle, you may need to remove interior trim panels, tail light assemblies, or access points in the trunk/boot area to reach the vehicle's wiring harness.

3. **Connect the Wiring Harness:**
    - Locate the designated connection points on your vehicle's wiring harness (e.g., tail lights, brake lights, turn signals).
    - Connect the vehicle-specific connectors from the ACPS-ORIS kit to the corresponding vehicle harness connectors. Ensure a secure and proper fit.
    - If a control module is included, mount it in a secure, dry location away from heat and vibration, and connect it according to the specific instructions.
4. **Route and Secure Wiring:**
    - Carefully route the wiring harness towards the rear of the vehicle where the trailer hitch socket will be mounted.
    - Use the provided cable ties to secure the wiring to existing vehicle harnesses or frame components, ensuring it is protected from sharp edges, hot components, and moving parts.
5. **Mount the Trailer Socket:**
    - Mount the 7-pin trailer socket to the designated location on your trailer hitch or vehicle bumper using the provided mounting hardware.
    - Connect the wires from the kit's harness to the correct pins on the trailer socket. Refer to the wiring diagram for standard pin assignments (e.g., ISO 1724 for 7-pin).
6. **Final Checks and Reassembly:**
    - Double-check all connections for security and proper insulation.
    - Reinstall any removed trim panels or components.
    - Reconnect the vehicle's battery.

5. Operating the Electrical Kit

The ACPS-ORIS 010-178 electrical kit is designed to automatically provide power and signal to your trailer's lighting system when a trailer is connected to the vehicle's tow bar and plugged into the 7-pin socket.

- **Connecting a Trailer:**
    - Ensure the vehicle is off and the parking brake is engaged.
    - Align the trailer's 7-pin plug with the vehicle's 7-pin socket and push firmly until it clicks into place.
    - Verify the connection is secure.
- **Testing Trailer Lights:**
    - With the trailer connected, turn on the vehicle's ignition (or engine).
    - Test all trailer lighting functions:
        - Tail lights (vehicle headlights on)
        - Brake lights (depress brake pedal)
        - Left turn signal
        - Right turn signal
        - Reverse lights (if applicable and wired)

    - Ensure all lights are functioning correctly and brightly.
- **Disconnecting a Trailer:**
    - Ensure the vehicle is off and the parking brake is engaged.
    - Carefully pull the trailer's 7-pin plug straight out from the vehicle's socket.

6. Maintenance

Regular inspection and minor maintenance can extend the life of your electrical kit and ensure reliable operation.

- **Inspect Connections:** Periodically check all visible wiring and connections for signs of corrosion, fraying, or damage.
- **Clean Socket:** Keep the 7-pin trailer socket clean and free of dirt, debris, and moisture. Use a dielectric grease on the pins to prevent corrosion.
- **Check Mounting:** Ensure the trailer socket and any control modules are securely mounted and not loose.
- **Avoid Water Immersion:** While designed for outdoor use, avoid submerging the electrical components in water.

7. Troubleshooting

If you experience issues with your trailer lighting, follow these troubleshooting steps:

Problem	Possible Cause	Solution
No trailer lights working.	◦ Loose or corroded connection at vehicle or trailer. ◦ Blown fuse in vehicle or kit. ◦ Faulty ground connection. ◦ Trailer wiring issue.	◦ Check all connections, clean and secure. ◦ Inspect vehicle and kit fuse boxes; replace blown fuses. ◦ Ensure ground wires are securely attached to a clean, unpainted metal surface. ◦ Test trailer lights directly with a known good power source.
Specific trailer light (e.g., brake light) not working.	◦ Burnt out bulb on trailer. ◦ Specific wire connection loose or corroded. ◦ Issue with vehicle's corresponding light circuit.	◦ Replace trailer bulb. ◦ Check the specific wire connection at the trailer plug and vehicle harness. ◦ Verify vehicle's light function independently.
Lights flickering or intermittent.	◦ Loose or dirty connections. ◦ Poor ground.	◦ Clean and tighten all connections, especially the ground.

If problems persist after following these steps, it is recommended to consult a qualified automotive electrician or contact ACPS-ORIS customer support.

8. Specifications

Attribute	Value
Brand	ACPS-ORIS

Attribute	Value
Model Number	010-178
Item Weight	330 g
Package Dimensions	18.6 x 16.2 x 8.3 cm
Manufacturer Reference	010-178
ASIN	B08QFPXYH9
Date First Available	December 13, 2020

9. Warranty and Support

ACPS-ORIS products are manufactured to high quality standards. For specific warranty information regarding your 010-178 electrical kit, please refer to the warranty card included with your purchase or visit the official ACPS-ORIS website. For technical support, installation assistance, or to inquire about replacement parts, please contact ACPS-ORIS customer service through their official channels. Always provide your product model number (010-178) and purchase details when seeking support.

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