

ACI 177116

ACI 177116 Windshield Washer Pump User Manual

Model: **177116**

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your ACI 177116 Windshield Washer Pump. Designed to meet or exceed original equipment performance, this pump ensures reliable fluid delivery for your vehicle's windshield cleaning system. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

PRODUCT OVERVIEW



Image: The ACI 177116 Windshield Washer Pump, a black cylindrical unit with two outlets at the top and two inlets at the bottom, shown alongside a separate black rubber adapter nozzle. This image illustrates the primary components of the washer pump assembly.

The ACI 177116 Windshield Washer Pump is a direct-fit replacement component engineered to restore the functionality of your vehicle's windshield washer system. It is built with quality and durability in mind, reflecting ACI's extensive experience in automotive components.

Key Features:

- Engineered to match original equipment washer pumps
- Designed to fit original windshield washer pump

- Includes adapter nozzle
- OE style electrical connector

SETUP AND INSTALLATION

Important: Before beginning installation, ensure the vehicle's ignition is off and the battery is disconnected to prevent electrical hazards. Always refer to your vehicle's service manual for specific instructions related to your make and model.

1. **Locate the Old Pump:** Identify the existing windshield washer pump, which is typically mounted on or near the washer fluid reservoir.
2. **Drain Fluid:** If necessary, drain any remaining washer fluid from the reservoir to minimize spillage during removal.
3. **Disconnect Electrical Connector:** Carefully detach the electrical connector from the old pump. Avoid pulling on the wires.
4. **Remove Hoses:** Disconnect the washer fluid hoses from the old pump's inlets and outlets. Be prepared for some residual fluid to escape.
5. **Remove Old Pump:** Unmount the old pump from the reservoir. This usually involves twisting the pump to release it from a grommet or releasing a retaining clip.
6. **Install New Pump:** Insert the ACI 177116 pump into the reservoir opening, ensuring it seats securely and creates a leak-free seal. Use the provided adapter nozzle if your vehicle's reservoir requires it for a proper fit.
7. **Connect Hoses:** Reattach the washer fluid hoses to the new pump's corresponding inlets and outlets. Ensure all connections are tight and free from kinks.
8. **Connect Electrical:** Reconnect the OE style electrical connector to the new pump, ensuring a firm connection.
9. **Refill Reservoir:** Fill the washer fluid reservoir with the appropriate windshield washer fluid for your climate.
10. **Test System:** Reconnect the vehicle's battery, turn on the ignition, and activate the windshield washer system to ensure proper operation. Check for any leaks around the pump and hose connections.

OPERATING INSTRUCTIONS

The ACI 177116 Windshield Washer Pump is an integral part of your vehicle's windshield cleaning system. It operates automatically when activated by the vehicle's controls.

Basic Operation:

- To activate the pump, engage your vehicle's windshield washer function. This is typically done via a lever on the steering column or a button on the dashboard. Refer to your vehicle's owner's manual for specific controls.
- Upon activation, the pump will draw washer fluid from the reservoir and deliver it under pressure to the windshield washer nozzles, allowing for effective cleaning.
- Ensure the washer fluid reservoir is adequately filled to guarantee continuous and effective operation of the pump.

MAINTENANCE

The ACI 177116 Windshield Washer Pump is designed for long-term reliability and typically requires minimal direct maintenance. However, regular checks of the overall windshield washer system are recommended to ensure optimal performance.

- **Fluid Level:** Regularly check and refill the windshield washer fluid reservoir. It is crucial to use a high-quality, non-freezing washer fluid during colder months to prevent damage to the pump and lines.
- **Hose Inspection:** Periodically inspect all washer fluid hoses for signs of wear, cracks, kinks, or leaks. Ensure all connections remain secure.
- **Nozzle Check:** Verify that the windshield washer nozzles are not clogged and are directing fluid effectively onto the windshield. If clogged, they can often be cleared with a thin wire or pin.
- **Pump Sound:** Pay attention to any unusual noises emanating from the pump during operation. A change in sound could indicate a blockage, air in the system, or a potential malfunction.

TROUBLESHOOTING

If your windshield washer system is not functioning correctly after installing the ACI 177116 pump, consider the following common issues and their potential solutions:

Problem	Possible Cause	Solution
No fluid sprays	Empty washer fluid reservoir	Refill the washer fluid reservoir.
No fluid sprays	Clogged washer nozzles	Clear any obstructions from the washer nozzles.
No fluid sprays	Blown fuse for washer pump	Check and replace the vehicle's washer pump fuse (refer to your vehicle's owner's manual for fuse box location and diagram).
No fluid sprays	Loose or disconnected electrical connection	Ensure the electrical connector to the pump is securely attached.
Weak or inconsistent spray	Partially clogged nozzles or hoses	Inspect and clear nozzles and hoses for any blockages.
Leaks around the pump	Improper seal or loose hose connection	Ensure the pump is properly seated in its grommet/seal and that all hose connections are tight. Replace the grommet if it is damaged.

If these troubleshooting steps do not resolve the issue, it is recommended to consult a qualified automotive technician.

SPECIFICATIONS

Manufacturer	ACI
Brand	ACI
Item Weight	3.87 ounces

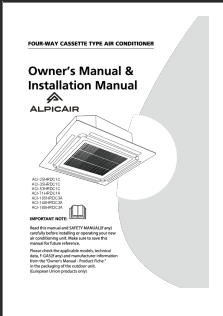
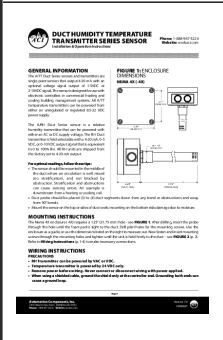
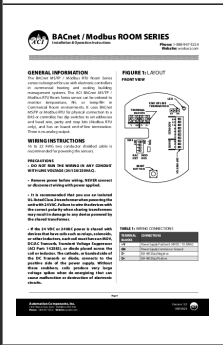
Product Dimensions	6.7 x 2.9 x 2 inches
Model Number	177116
Manufacturer Part Number	177116
ASIN	B000CERAV6
Date First Available	October 10, 2007


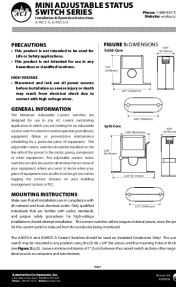
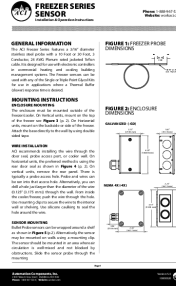
WARRANTY AND SUPPORT

For specific warranty information regarding your ACI 177116 Windshield Washer Pump, please refer to the documentation provided with your purchase. ACI products are backed by over 35 years of excellence in door system components experience and know-how, reflecting their commitment to quality and durability. For technical assistance, product inquiries, or to report any issues, please visit the official ACI website or contact their customer service department directly. Contact information can typically be found on the product packaging or the manufacturer's website.

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Related Documents - 177116

	<p>Installation Guide for ACI Series Cassette Air Conditioners</p> <p>Detailed installation instructions for ACI series cassette air conditioners, including safety precautions, mounting dimensions, and connection procedures. Covers models like ACI-25HRDC1C, ACI-35HRDC1C, ACI-53HRDC1C, ACI-71HRDC1A, ACI-105HRDC3A, ACI-140HRDC3A, and ACI-180HRDC3A.</p>
	<p>ACI Duct Humidity Temperature Transmitter Series Sensor Installation and Operation</p> <p>Installation and operation instructions for ACI's Duct Humidity Temperature Transmitter Series Sensors (A/TT and A/RH). Covers general information, mounting, wiring, calibration, troubleshooting, and product specifications for HVAC building management systems.</p>
	<p>ACI BACnet/Modbus Room Series Sensor Installation and Operation Manual</p> <p>Comprehensive installation and operation guide for the ACI BACnet MS/TP and Modbus RTU Room Series temperature and humidity sensors. Covers wiring, mounting, configuration, and specifications for building management systems.</p>

 <p>RR2552 SPREAD SPECTRUM REPEATER</p> <p>GENERAL INFORMATION</p> <p>INSTALLATION INSTRUCTIONS</p> <p>SETTLE REPEATABLE NETWORK ID</p>	<p>ACI RR2552 Spread Spectrum Repeater: Installation and Operation Instructions</p> <p>Comprehensive guide to installing and operating the ACI RR2552 Spread Spectrum Repeater, covering setup, network ID configuration, mounting, wiring, troubleshooting, and product specifications.</p>
 <p>MINI ADJUSTABLE STATUS SWITCH SERIES</p> <p>PRECAUTIONS</p> <p>GENERAL INFORMATION</p> <p>INSTALLATION INSTRUCTIONS</p> <p>FIGURE 1 DIMENSIONS</p>	<p>ACI Mini Adjustable Status Switch Series A/MCS-A, A/MSCS-A Installation and Operation Manual</p> <p>Installation and operation instructions for the ACI Mini Adjustable Status Switch Series (A/MCS-A, A/MSCS-A). Covers features, precautions, mounting, wiring, calibration, troubleshooting, and product specifications for AC current monitoring.</p>
 <p>FREEZER SERIES SENSOR</p> <p>GENERAL INFORMATION</p> <p>INSTALLATION INSTRUCTIONS</p> <p>FIGURE 1 DIMENSIONS</p> <p>FIGURE 2 WIRING DIAGRAM</p>	<p>ACI Freezer Series Sensor Installation and Operation Instructions</p> <p>Comprehensive guide for installing, operating, and troubleshooting ACI Freezer Series temperature sensors. Includes product specifications, wiring diagrams, and mounting instructions for commercial HVAC and building management systems.</p>