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› ACV 771000-6708 170° Rear Camera Instruction Manual

ACV 771000-6708

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ACV 771000-6708 170° Rear Camera. Please read this manual thoroughly before attempting to install or operate the device to ensure correct usage and prevent damage.



Figure 1: ACV 771000-6708 170° Rear Camera. This image shows the compact, black angular camera unit with its integrated cable connection.

2. PRODUCT FEATURES

The ACV 771000-6708 is a universal rear camera designed for substructure mounting, offering a wide viewing angle and robust construction.

- **Design:** Universal (angular) substructure, extremely small design.
- **Construction:** Durable plastic, black finish.
- **Sensor Type:** 1/3 CMOS for clear imaging.
- **Imaging System:** NTSC color standard.
- **Lens:** 1.9mm/F2.0.
- **Minimum Illumination:** 0.1 Lux, suitable for low-light conditions.
- **Resolution:** 980 x 480 TV lines.
- **Viewing Angle:** Diagonal 170°, Horizontal 120°, Vertical 85° ± 5°.
- **Environmental Protection:** IP68 dust and waterproof rating.
- **Connector:** 4-pin mini connector 5.2 mm.
- **Power:** Supply voltage +12V DC ± 10%, Power consumption 60mA.
- **Temperature Range:** Operating -20°C to 70°C, Storage -40°C to 80°C.
- **Dimensions (L/W/H):** 25.5 mm / 28 mm / 23.5 mm.



Figure 2: Size comparison of the ACV 771000-6708 camera next to a Euro coin, highlighting its compact dimensions.

3. PACKAGE CONTENTS

Please verify that all items are present in the package before proceeding with installation.

- ACV 771000-6708 Rear Camera Unit
- 1 m Camera Connection Cable with 4-pin mini connector (5.2 mm)
- Cable Kit:
 - 1 m cable with 4-pin mini connector including 1 jumper
 - 6.5 m extension cable including 3 m power lead for connection to rear lights and cables up to the terminal unit
 - 4-pin mini socket (10 mm) and plug (5.2 mm)
 - 0.2 m power connection cable including fuse and RCA video connection cable
- Installation Accessories (may be sold separately or included depending on package):
 - Closing relay electronic 2V - 12V / 1.5A max (Model: 40AD-REMOTE)
 - Rear View Camera Voltage Stabilizer Reverse Signal (Model: 771000-6100)



Figure 3: Overview of the ACV 771000-6708 rear camera and its accompanying connection cables and accessories.

4. SAFETY INFORMATION

Please observe the following safety guidelines to prevent damage to the product or vehicle, and to ensure safe operation.

- **Voltage Compatibility:** All ACV cameras are designed for connection to a +12V continuous operation power supply.
- **Camera Operating Voltage:** The camera itself operates at +3V.
- **CRITICAL WARNING:** Connecting the camera directly to a +12V source without a voltage converter will damage the camera. Ensure a proper voltage converter is used if the camera's operating voltage is not

met.

- Ensure all electrical connections are secure and properly insulated to prevent short circuits.
- Disconnect the vehicle's battery before performing any electrical work.
- Consult a professional installer if you are unsure about any part of the installation process.

5. INSTALLATION

Follow these steps for proper installation of the ACV 771000-6708 rear camera.

5.1 Mounting the Camera

1. Select a suitable location for substructure mounting at the rear of your vehicle. Ensure the camera has a clear, unobstructed view.
2. Mark the drilling points for the camera's mounting screws.
3. Drill pilot holes carefully, avoiding any existing wiring or vehicle components.
4. Secure the camera unit to the chosen location using appropriate fasteners.

5.2 Wiring Connections

Proper wiring is crucial for the camera's functionality and longevity. Refer to the safety information regarding voltage.

1. Connect the 1 m camera connection cable to the camera unit.
2. Route the camera cable through the vehicle's chassis to the location of your display unit or head unit. Use the 6.5 m extension cable if necessary.
3. **Power Connection:**
 - Connect the **red wire** to a +12V switched load, ensuring it is stable and secured (e.g., reverse light circuit).
 - Connect the **black wire** to a reliable ground (GND) point on the vehicle's body.
 - Utilize the provided 0.2 m power connection cable with fuse for protection.
4. **Video Connection:** Connect the RCA video connection cable from the camera's cable kit to the video input of your display unit or head unit.
5. **Optional Accessories:** If using the 40AD-REMOTE closing relay or 771000-6100 voltage stabilizer, follow their respective installation instructions for integration into the camera's power circuit.

5.3 Optional Cable Extensions

For longer cable runs, optional extensions are available:

- ACV Camera Cable Extension 5m (Model: 771000-6305)
- ACV Camera Cable Extension 10m (Model: 771000-6310)
- ACV Camera Cable Extension 15m (Model: 771000-6315)

6. OPERATION

Once correctly installed, the ACV 771000-6708 rear camera operates automatically.

1. When the vehicle's reverse gear is engaged, the camera will receive power (if wired to the reverse light circuit).

2. The video feed from the camera will automatically display on your connected compatible monitor or head unit.
3. The wide 170° diagonal viewing angle provides a comprehensive view of the area behind your vehicle, assisting with parking and maneuvering.

7. MAINTENANCE

To ensure optimal performance and longevity of your camera, follow these simple maintenance tips:

- **Cleaning the Lens:** Periodically clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots. Avoid abrasive cleaners that could scratch the lens.
- **Check Connections:** Occasionally inspect all cable connections to ensure they remain secure and free from corrosion.
- **Housing Inspection:** Check the camera housing for any signs of damage or cracks that could compromise its IP68 waterproof rating.

8. TROUBLESHOOTING

If you encounter issues with your ACV 771000-6708 camera, refer to the following common problems and solutions:

- **No Image on Display:**
 - Check all power connections to ensure the camera is receiving +12V (with proper voltage conversion to +3V for the camera).
 - Verify the video RCA cable is securely connected to both the camera and the display unit.
 - Ensure the display unit is set to the correct video input source.
- **Distorted or Flickering Image:**
 - Check for loose cable connections.
 - Ensure the power supply is stable and free from interference. A voltage stabilizer (e.g., 771000-6100) may be required if experiencing power fluctuations.
 - Clean the camera lens.
- **Camera Not Activating:**
 - Confirm the +12V switched power source (e.g., reverse light) is functioning correctly.
 - Check the fuse on the power connection cable.

If problems persist after attempting these solutions, please contact ACV customer support or your installer.

9. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	ACV
Model	771000-6708
Sensor Type	1/3 CMOS
Imaging System	NTSC Color
Lens	1.9mm/F2.0
Minimum Illumination	0.1 Lux
Resolution	980 x 480 TV lines
Viewing Angle (Diagonal)	170°
Viewing Angle (Horizontal)	120°
Viewing Angle (Vertical)	85° ± 5°
Waterproof Rating	IP68
Connector Type	4-pin mini connector 5.2 mm
Supply Voltage	+12V DC ± 10%
Camera Operating Voltage	+3V
Power Consumption	60mA
Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 80°C
Dimensions (L/W/H)	25.5 mm / 28 mm / 23.5 mm

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. For technical support or further assistance, please reach out to ACV customer service through their official channels.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

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