



1 Safety and Environment

1.1 Safety Please make sure that the piece of equipment your microphone will be connected to fulfills the safety regulations in force in your country and is fitted with a ground lead.

- 1.2 Environment**
1. Be sure to dispose of used batteries as required by local waste disposal rules. Never throw batteries into a fire (risk of explosion) or garbage bin.
 2. When scrapping the equipment, remove the batteries, separate the case, circuit boards, and cables, and dispose of all components in accordance with local waste disposal rules.
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2 Description

2.1 Introduction Thank you for purchasing an AKG product. This Manual contains important instructions for setting up and operating your equipment. Please take a few minutes to read the instructions below carefully **before operating the equipment**. Please keep the Manual for future reference. Have fun and impress your audience!

2.2 C 477 WR The C 477 WR is a highly professional head-worn condenser microphone specifically designed for almost "invisible" use by performers on stage and radio or TV moderators. In line with this concept, the microphone is extremely light.

The dual-diaphragm capsule of the C 477 WR features an additional gold-sputtered protective diaphragm that prevents moisture and perspiration from penetrating into the transducer. This reduces the risk of failure caused by humidity to a practical minimum.

The microphone arm is attached to the left-hand side of the behind-the-neck headband. A right-hand version is also available for TV moderator duos or similar applications.

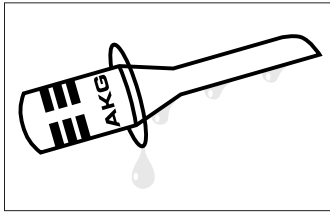
The C 477 WR is available in five versions:

1. **C 477 WR L:** with 3-pin mini XLR connector for use with AKG body-pack transmitters or the optional MPA III phantom power adapter from AKG for connecting to mixers or amplifiers. Black, microphone on the left.
 2. **C 477 WR L/P:** as C 477 WR L except for flesh-tone side pieces and microphone.
 3. **C 477 WR oc:** stripped and tinned leads. Black, microphone on the left.
 4. **C 477 WR oc/P:** stripped and tinned leads. Flesh-tone side pieces and microphone, microphone on the left.
 5. **C 477 WR oc/P/R:** as C 477 WR oc/P, except with microphone on the right.
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2 Description



A special moisture shield on the microphone capsule makes it difficult for moisture and makeup to penetrate into the microphone. This barrier prevents the microphone sound entries from being clogged by perspiration or makeup which would make the sound dull and reduce the sensitivity of the microphone. Therefore, never remove the moisture shield from the microphone!



2.3 Moisture Shield

Fig. 1: Moisture shield.

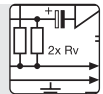
W 77 Windscreen Moisture shield

W 77 M wire-mesh windscreen, black
W 77 M wire-mesh windscreen, flesh-tone
MPA III phantom power adapter

2.4 Standard Accessories

2.5 Optional Accessories

3 Interfacing



The C 477 WR is a prepolarized condenser microphone and requires a supply voltage of 1.5 VDC to 12 VDC.

You can connect the C 477 WR L directly to the PT 40, PT 60, PT 80, PT 61, PT 81 bodypack transmitters and all later models from AKG. Alternatively, you can use the MPA III phantom power adapter from AKG and a microphone cable to connect the microphone to a mixer or amplifier input.

3.1 C 477 WR L

1. Plug the mini XLR connector on the cable of your microphone all the way into the audio input connector on the bodypack transmitter. The connector will lock automatically. Refer to the instruction manual of your bodypack transmitter.

3.1.1 Connecting to a Bodypack Transmitter

The C 477 WR L has been designed specifically for use with AKG bodypack transmitters. Using the microphone with a bodypack from a different manufacturer may cause malfunction or damage to the microphone which may not be covered by the warranty.

Important!

The optional MPA III phantom power adapter lets you connect the microphone to any phantom power source or XLR inputs with 9 to 52 V phantom power.

3.1.2 Hardwire Connection

We recommend the optional N 62 E or N 66 E AC power supply or B 18 battery supply (also optional) from AKG for powering the MPA III.

1. Plug the mini XLR connector on the cable of your microphone all the way into the mini XLR connector on the MPA III connecting cable. The connector will lock automatically.
2. Connect the MPA III to the desired input with phantom power.



3 Interfacing

If the selected input provides no phantom power:

1. Connect the MPA III to one of the phantom power supplies listed above.
2. Connect the phantom power supply to the desired input.

Important!

Using any power supply other than those recommended by AKG may damage your microphone and will void the warranty.

3.2 C 477 WR oc

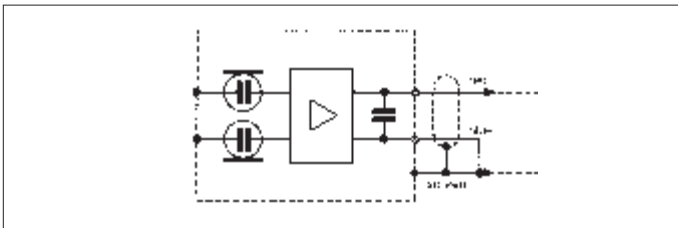


Fig. 2: C 477 oc circuit diagram.

The C 477 WR oc uses a connecting cable with stripped and tinned leads. You can use this microphone with bodypack transmitters or other devices that provide a supply voltage between 1.5 VDC and 12 VDC.

For details on the type of connector you will need, refer to the instruction manual of the device to which you want to connect your microphone.



4 Operating Notes

Important!

The clear-plastic moisture shield on the microphone prevents perspiration or makeup from clogging the sound entry ports and thus changing the sound and reducing the microphone's sensitivity.

Therefore, never try to remove the moisture shield from the microphone!

4.1 Putting the Microphone On

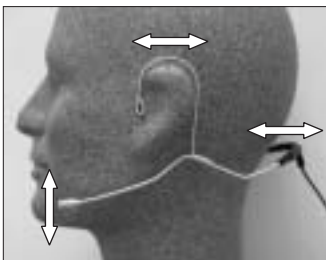


Fig. 3: Microphone position on the head.

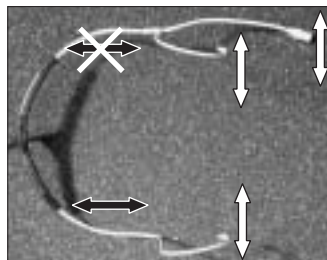


Fig. 4: Adjusting the headband.

4 Operating Notes



1. Put the microphone on as shown in fig. 3.
2. Bend the microphone arm so that the microphone will sit in front of the corner of the user's mouth, as close as possible to the mouth.
3. In order to adjust the headband to the user's head, you can bend the metal parts to shape (white arrows) and slide the side piece WITH-OUT the microphone arm in and out within the plastic center piece (black arrows). (The side piece carrying the microphone arm is not movable.)

Refer to fig. 4.

Never try to bend the plastic center piece! The plastic material would return to its original shape and break if overstressed, voiding the warranty.

Important!

If (for instance, in outdoor use) excessive wind or pop noise becomes audible, attach the supplied windscreen to the microphone.

4.2 Windscreen

The optional W 77 M wire-mesh windscreen in black or flesh-tone is even less visible.

Note:

5 Cleaning



To clean **metal surfaces**, use industrial spirits or alcohol .
To clean **plastic surfaces**, use a soft cloth moistened with water.
Never use benzine or solvents!

5.1 Surfaces

If perspiration or makeup should penetrate into the microphone capsule:

5.2 Microphone Case

1. Unscrew the microphone case CCW from the microphone arm.
2. Move the case rapidly back and forth in distilled water.

The case is connected to ground. If you use tap water to clean the case, furring may interrupt the ground connection and cause hum. Therefore, use distilled water only.

Important!

3. Allow the case to dry completely.
4. Screw the case back on the microphone arm CW.

Use a mild detergent solution to wash the windscreen. The windscreen will be ready for use as soon as it has dried completely.

5.3 Windscreen



6 Troubleshooting

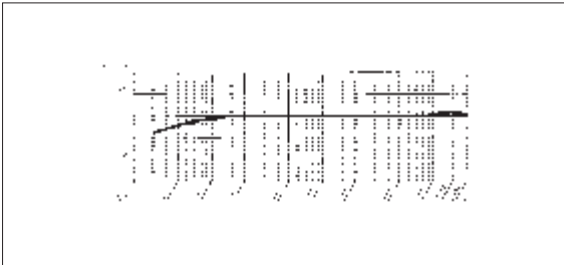
Problem	Possible Cause	Remedy
1. No sound:	<ol style="list-style-type: none">1. No supply voltage.2. Microphone arm contacts soiled, shorted by moisture, or corroded.	<ol style="list-style-type: none">1. Check phantom power supply.2. Contact an AKG service center.
2. Loud pop, wind, and/or breath noise:	<ol style="list-style-type: none">1. Microphone sits too close to mouth or nose.2. No windscreen attached.	<ol style="list-style-type: none">1. Align microphone sound entries with corner of mouth and move microphone just far enough away from mouth and nose to stop breath noise.2. Attach windscreen.
3. Microphone sound becomes duller by and by:	<ol style="list-style-type: none">1. Soiled windscreen attenuates high frequencies.2. Sound entries clogged.	<ol style="list-style-type: none">1. Clean windscreen.2. Clean microphone case.
4. Reduced sensitivity and gain-before-feedback:	<ol style="list-style-type: none">1. Microphone sits too far away from corner of mouth.2. Sound entries clogged.	<ol style="list-style-type: none">1. Place microphone closer to corner of mouth.2. Clean microphone case.

7 Specifications



Type:	Pre-polarized dual-diaphragm condenser microphone
Polar pattern:	Omnidirectional
Frequency range:	20 Hz to 20,000 Hz
Sensitivity at 1000 Hz:	8 mV/Pa
Max. SPL:	133 dB
Equivalent noise level:	<26 dB-A
Signal-to-noise ratio (A-weighted):	>68 dB-A
Electrical Impedance:	3.5 k Ω
Recommended load impedance:	10 k Ω
Supply voltage:	1.5 VDC to 12 VDC
Current consumption:	<0.6 mA
Connector:	L versions: 3-pin mini XLR oc versions: stripped and tinned leads
Cable length:	1.5 m (5 ft.)
Finish:	Matte black P versions: metal headband: matte flesh-tone plastic center piece: matte black cable: matte black
Size (LxWxH):	Approx. 180 x 130 mm x 85 mm (7.1 x 5.2 x 3.3 in.)
Net/shipping weight:	Approx. 15 g / 325 g (0.53 oz. / 11.5 oz.)

Frequency Response



Polar Diagram

