



CK 77 WR
C 577 WR



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1 Precaution/Description

1.1 Precaution 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 Unpacking	CK 77 WR	C 577 WR
	1 CK 77 WR microphone	1 C 577 WR microphone
	1 W 77 windscreen	1 W 77 windscreen
	1 H 40/1 clip	1 H 40/1 clip
	1 H 41 tie pin	1 H 41 tie pin
	Adhesive compound	1 H 16 belt clip
		Adhesive compound

Check that the package contains all the parts listed above for your microphone. If anything is missing, please contact your AKG dealer.

1.3 Optional Accessories for the C 577 WR

- **MK 9/10** microphone cable: 10-m (30-ft.) 2-conductor shielded cable w/male and female XLR connectors
- **N 62 E, N 66 E, B 18** phantom power supplies

1.4 CK 77 WR The CK 77 WR is a professional miniature condenser clip-on microphone with an omnidirectional polar pattern. With its wide frequency range from 20 Hz to 20 kHz, low distortion at high sound pressure levels, small size, and versatile accessories, the microphone is an ideal choice for miking up musical instruments, lecturers, actors, preachers, etc. Other applications include TV and broadcast work as well as inconspicuous spot miking in live recording.

The microphone features a dual-diaphragm transducer for efficient suppression of cable noise and mechanical noise that may occur when the microphone is used directly on an instrument. The two diaphragms are electrically connected out of phase. Impacts will move both diaphragms in the same direction so unwanted noise will be canceled out. Sound will move the diaphragms in opposite directions so the two output signals will add in phase.

1 Description



The microphone capsule is a patented design that prevents perspiration and moisture from penetrating into the transducer. A special clear plastic ring makes sure that perspiration and makeup will not clog the sound entries on the microphone body.

The microphone is fitted with a 1.5-m (5-ft.) cable with either unterminated leads or a 3-pin mini XLR connector. The microphone is available in three different colors and will almost disappear when blended in with an actor's or singer's makeup.

An external windscreen supplied with the microphone reduces wind noise when using the microphone on an open-air stage.

The C 577 WR is identical to the CK 77 WR, except that it operates on 9 to 52 V universal phantom power to DIN 45596/IEC 268-15 and is available in black only.

1.5 C 577 WR

- Cable: 1.5 m (5 ft.), with unterminated leads. Supply voltage: 1.5 to 12 VDC. Finish: matte black.
- Cable: 1.5 m (5 ft.), with unterminated leads. Supply voltage: 1.5 to 12 VDC. Finish: white.
- Cable: 1.5 m (5 ft.), with unterminated leads. Supply voltage: 1.5 to 12 VDC. Finish: flesh-color.
- Cable: 1.5 m (5 ft.), with 3-pin mini XLR connector for use with AKG bodypack transmitters. Finish: matte black.
- Cable: 1.5 m (5 ft.), with 3-pin mini XLR connector for use with AKG bodypack transmitters. Finish: flesh-color.
- Cable: 3 m (10 ft.), with phantom power adapter with integrated 3-pin XLR connector. For direct connection to mixing consoles or recording devices with 9 to 52 V phantom power. Connects to audio equipment

1.6 Versions

- **CK 77 WR oc**

- **CK 77 WR oc/w**

- **CK 77 WR oc/p**

- **CK 77 WR-L**

- **CK 77 WR-L/p**

- **C 577 WR**



1 Description

with no phantom power via an AKG phantom power supply.



2 Interfacing

2.1 CK 77 WR oc, oc/p, oc/w All CK 77 WR oc versions have been designed for powering with 1.5 VDC to 12 VDC.

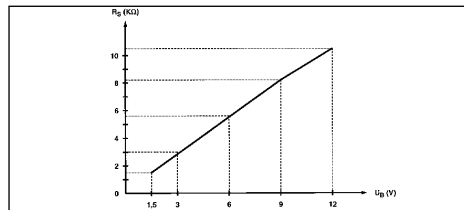


Fig. 1: Optimum feed resistance vs. supply voltage.

1. Determine the optimum value for the feed resistor. It depends on the supply voltage:

Supply voltage U_B (V)	Feed resistance R_S (kΩ)
1.5	1.5
3	3.0
6	5.6
9	8.2
12	10.5

2. Check what type of connector you need and solder the connector to the microphone cable.

Important! For details on connector wiring, refer to the instruction manual of the device to which you intend to connect your microphone.

2 Interfacing

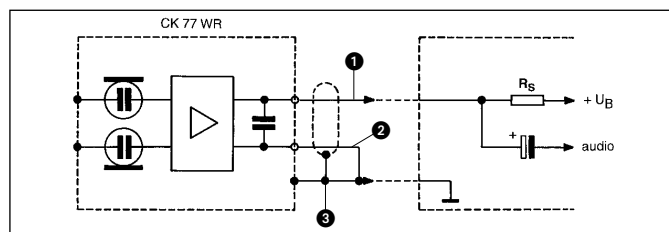


Fig. 2: CK 77 WR circuit diagram.

- ① = red
 - ② = blue
 - ③ = shield
- +UB = supply voltage and audio inphase

You can connect the CK 77 WR L and the CK 77 WR L/p to any AKG bodypack transmitter with a 3-pin mini XLR input. For details, refer to the instruction manual of your bodypack transmitter.

2.2 CK 77 WR L, L/p

The C 577 WR has been designed for universal phantom powering from 9 to 52 V as per DIN 45596/IEC 268-15.

2.3 C 577 WR

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

Important!

1. Connect the phantom power adapter (1) on the microphone cable to a balanced XLR microphone input with phantom power.
2. Switch the phantom power on. (Refer to the instruction manual of the unit to which you connected your microphone.)

2.3.1 Connecting to Balanced Inputs

Refer to fig. 3 on page 16.



2 Interfacing

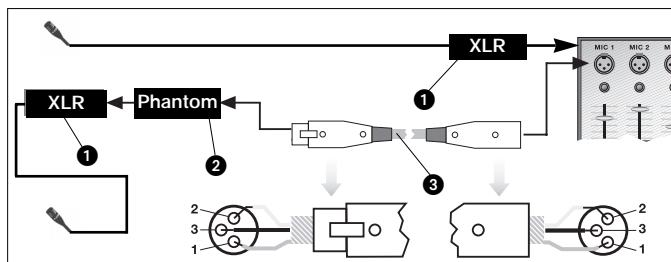


Fig. 3: Connecting to a balanced input.

3. If your mixer provides no phantom power: Connect the phantom power adapter (1) to an optional AKG phantom power supply (2) (N 62 E, N 66 E, B 18) and use an XLR cable (3) (e.g., an optional MK 9/10 from AKG) to connect the phantom power supply to the desired balanced input.

2.3.2 Connecting to Unbalanced Inputs

Refer to fig. 4.

You may connect any AKG phantom power supply (2) to an unbalanced input, too. Use a cable (3) with a female XLR connector and TS jack plug:

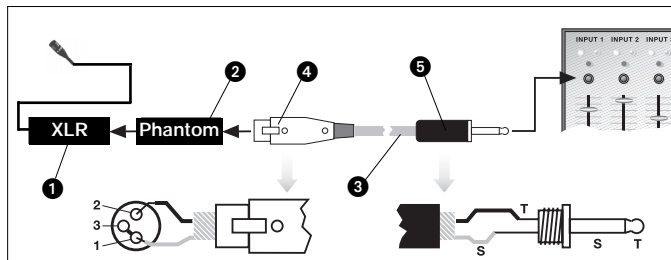


Fig. 4: connecting to an unbalanced input.

2 Interfacing



1. On the XLR connector (4), add a wire bridge to connect pin 1 to pin 3 and the cable shield.
2. Connect the inside wire of the cable to pin 2 on the XLR connector (4) and the tip contact of the jack plug (5).

Unbalanced cables may pick up interference from stray magnetic fields near power or lighting cables, electric motors, etc. like an antenna. This may introduce hum or similar noise when you use a cable that is longer than 16 feet (5 m).

Note:

3 Applications



If you use the microphone in the open air you can slip the supplied W 77 windscreen on the microphone to attenuate wind noise.

Note:

The principal benefit of a microphone attached to the user's clothes or integrated in their makeup is that the microphone will maintain a constant working distance independently of the user's movements and thus ensure a constant output level. Also, a clip-on microphone allows the user to move about freely and keeps their hands free.

3.1 Lavalier Miking

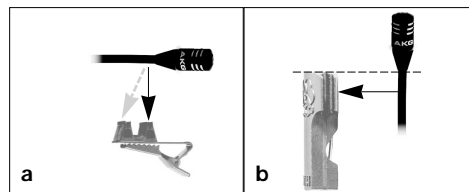


Fig. 5: Fixing the microphone on the clip (a) or tie pin (b).

1. Insert the cable into one of the fixing grooves on the



3 Applications

supplied H 40/1 clip (see fig. 5a) or on the supplied H 41 tie pin (see fig. 5b), at a point immediately behind the microphone body.

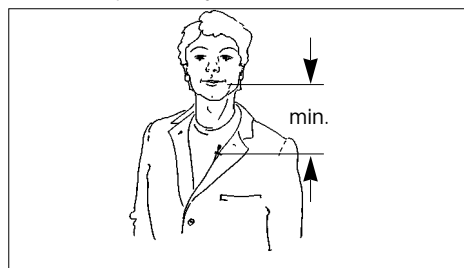


Fig. 6: Attaching the microphone near the user's mouth.

2. Attach the microphone to the talker's clothes, e.g., on the lapel, placing it as close as possible to the talker's mouth.

Note: The smaller the distance between the microphone and the sound source, the higher the usable gain before feedback.

3. **C 577 WR only:** Fix the phantom power adapter to the belt with the H 16 belt clip.

3.2 Live Recording and Spot Miking

1. Insert the cable into one of the fixing grooves on the supplied H 40/1 clip (see fig. 5a) or on the supplied H 41 tie pin (see fig. 5b).
2. Fix the microphone on a suitable part of the stage decoration such as a flat, backdrop, curtain, etc.

Note: To fix the microphone to a hard surface, use the supplied adhesive compound.

3 Applications



3.3 Theater, Musical, Opera

Fig. 7: Microphone integrated in performer's makeup.

Fix the microphone on the user's head, as close as possible to the mouth, and blend it in with the makeup. Many engineers place the microphone as shown in fig. 7. Depending on the requirements of the production at hand, you may also attach the microphone, e.g., to the performer's forehead.

You can use the supplied adhesive compound or H 40/1 clip to fasten the microphone on various instruments (e.g., string instruments, guitar, wind instruments). Since the microphone will sit very close to the sound source, you can set the gain control on the console to a rather low level. This means that the feedback risk in a live situation will be very low.

3.4 Miking up Musical Instruments

1. To find the best position of the microphone on the instrument, try several different places on the instrument and compare the sounds.
2. If you mount the microphone on a wind instrument, consider slipping the supplied W 77 windscreen on the microphone to reduce blowing noise.



4 Cleaning

In theater work, the microphone grill and sound entry may become clogged by makeup and perspiration.

1. Unscrew the grill from the cable module CCW.
 2. Place the grill in an ultrasonic cleaning bath of the type jewelers use to clean jewelry. This is the best way to clean even the smallest orifices in the grill.
 3. Allow the grill to dry.
 4. Screw the grill back on the cable module.
-



5 Service

If the microphone fails due to condensation caused by perspiration after long periods of use on the body, you can replace the transducer element in the field. To replace the transducer element, you do not even need to remove the microphone from the actor's body. Therefore, this method is faster than replacing the entire microphone.

Replacement transducer elements are available from AKG Service.

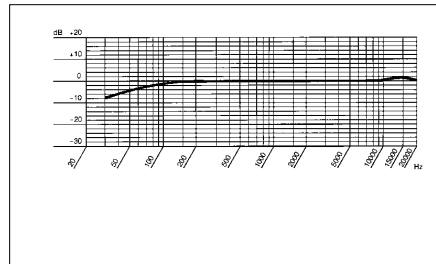
1. Unscrew the grill from the cable module.
 2. Unscrew the transducer element from the cable module.
 3. Screw the replacement transducer element on the cable module.
 4. Replace the grill.
-

6 Specifications

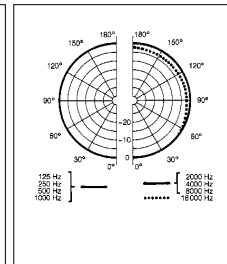


Type:	Self-polarized dual-diaphragm condenser microphone
Polar pattern:	Omnidirectional
Frequency range:	20 to 20,000 Hz
Sensitivity at 1000 Hz:	8 mV/Pa = -42 dBV
Impedance:	CK 77 WR: <3.5 k Ω C 577 WR: <400 Ω
Recommended load impedance:	CK 77 WR: \geq 10 k Ω C 577 WR: \geq 2 k Ω
Equivalent noise level to DIN 45412 (A weighted):	<26 dB-A
Signal/noise ratio re 1 Pa (A weighted):	68 dB
Max. SPL for 1% THD:	133 dB
Operating temperature range:	-20°C to +60°C
Relative humidity:	99% (+20°C); 95% (+60°C)
Supply voltage:	CK 77 WR: 1.5 to 12 VDC C 577 WR: 9 VDC to 52 VDC phantom power to DIN 45596/IEC 268-15
Current consumption:	<0.6 mA
Size:	5.5 dia. x 15.5 mm (0.2 x 0.6 in.)
Cable length:	CK 77 WR: 1.5 m (5 ft.) C 577 WR: 3 m (10 ft.)
Net/shipping weight:	0.4 g (0.014 oz.) / 85 g (3 oz.)
Finish:	Matte black, flesh-color, or white
This product conforms to EN 50 082-1 provided it is connected to equipment with a CE mark.	

Frequency Response



Polar Diagram



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