



C 430



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Bitte vor Inbetriebnahme des Gerätes lesen!	
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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



1 C 430

1 SA 40

1 W 32

Check that the packaging contains all of the components listed above. Should anything be missing, please contact your AKG dealer.

- 1.3 Features**
- Rugged condenser microphone for instrument miking on stage.
 - Flat frequency response ideally suited for overhead miking of cymbals and hi-hat.
 - Integrated windscreen for efficient suppression of wind noise.
 - Transducer shock mount reduces handling and cable noise.
 - Frequency-independent cardioid polar response for high gain before feedback.
-

1.4 Brief Description

The C 430 is a unidirectional condenser microphone (pressure gradient microphone). It has been designed primarily as an instrument microphone for rough onstage use. Being a condenser microphone, it delivers an exceptionally clear, well-balanced sound and is therefore an ideal overhead microphone for use on cymbals and hi-hats. The frequency independent cardioid pickup pattern of the C 430 ensures high gain before

1 Description



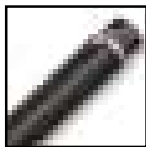
feedback. A special shock mount for the transducer element makes the microphone virtually insensitive to footfall and other unwanted noise transmitted by the microphone stand. The massive all-metal case provides additional protection for the transducer. A built-in windscreen will reliably suppress wind noise caused, for instance, by a hi-hat.



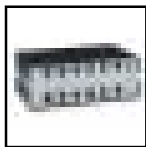
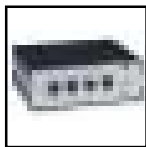
- **MK 9/10** microphone cable: 10-m (30-ft.) 2-conductor shielded cable with male and female XLR connectors



- **ST 102A, ST 200 , ST 305** floor stands

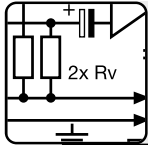


- **B 15** battery power supply



- Phantom power supplies: **N 62 E, N 66 E, B 18 E**
-

1.5 Optional Accessories



2 Interfacing

2.1 General The C 430 is a condenser microphone and therefore needs a power supply. The microphone provides a balanced output on a 3-pin male XLR connector:

- Pin 1: ground
- Pin 2: hot
- Pin 3: return

Refer to sections 2.2 and 2.3.

You can connect the microphone either to a balanced microphone input with or without phantom power or an unbalanced microphone input.

2.2 Input with Phantom Power
Refer to fig. 1.

1. Use an XLR cable (e.g., the optional MK 9/10 from AKG) to connect the microphone to a balanced XLR input with phantom power.
2. Switch the phantom power on. (Refer to the instruction manual of the unit to which you connected your C 430.)

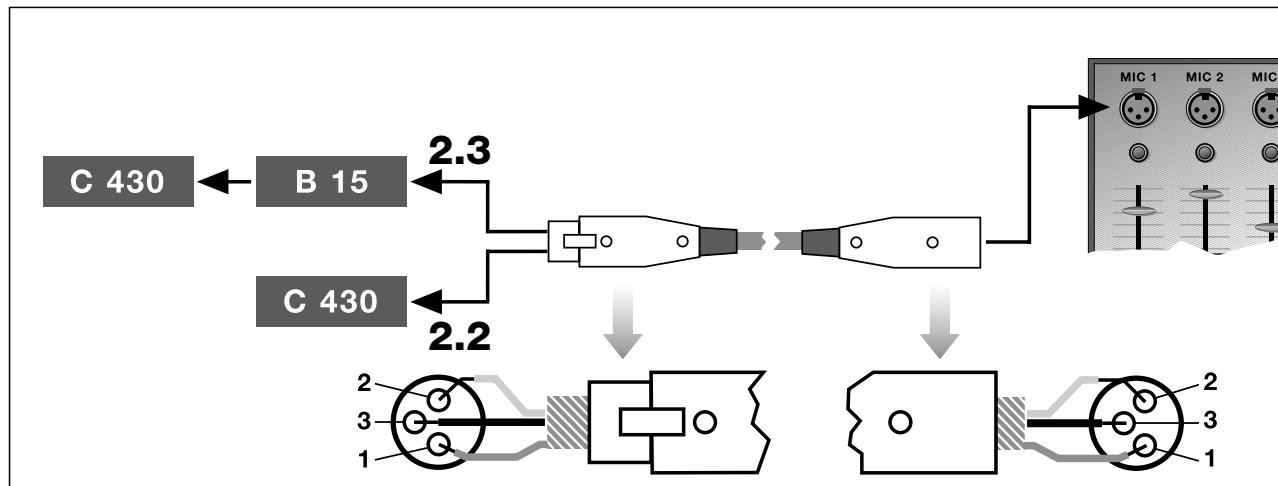
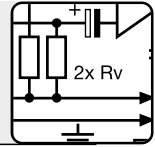


Fig. 2: Connecting to a balanced input.

2.3 Input with No Phantom Power
Refer to fig. 1.

1. If your mixer provides no phantom power, connect an optional AKG phantom power supply (N 62 E, N 66 E, B 18, B 15) between the microphone and the mixer.

2 Interfacing



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

Important!

You may connect AKG phantom power supplies to unbalanced inputs, too.

2.4 Unbalanced Input

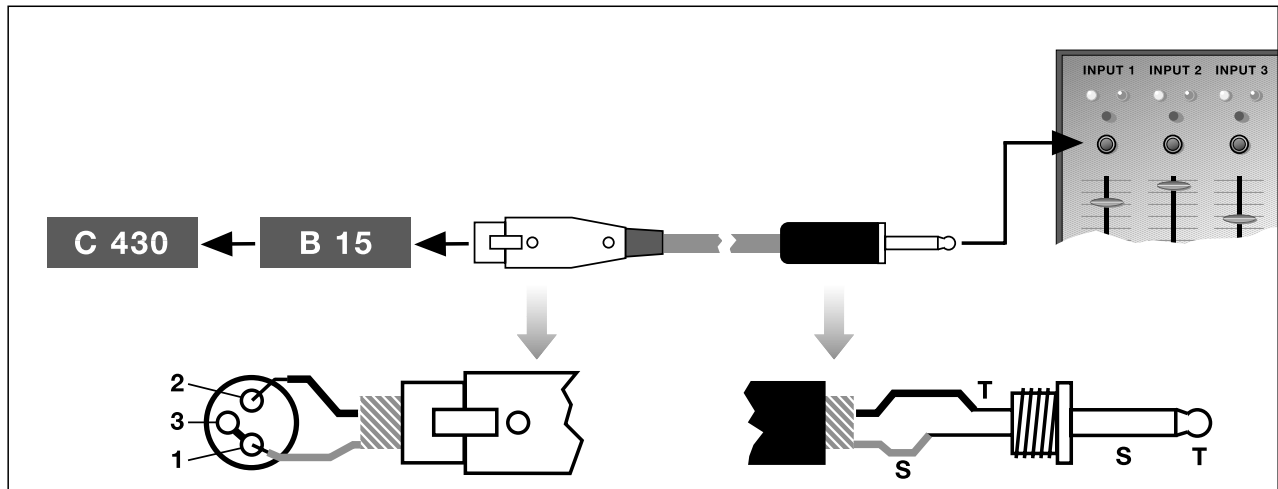


Fig. 2: Connecting to an unbalanced input.

Use a cable with a female XLR connector and TS jack plug:

1. On the XLR connector, use 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 and the tip contact of the jack plug.

Refer to fig. 2.

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 Using Your Microphone

3.1 Introduction The best way to get the “right” sound is to experiment with microphone placement. The following sections contain useful suggestions based on proven miking techniques.

3.2 Cymbals (Overhead)

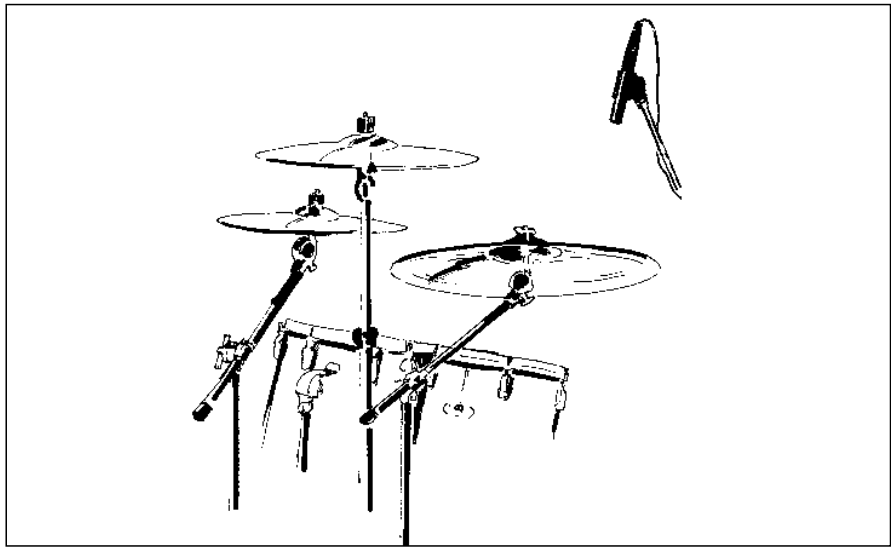
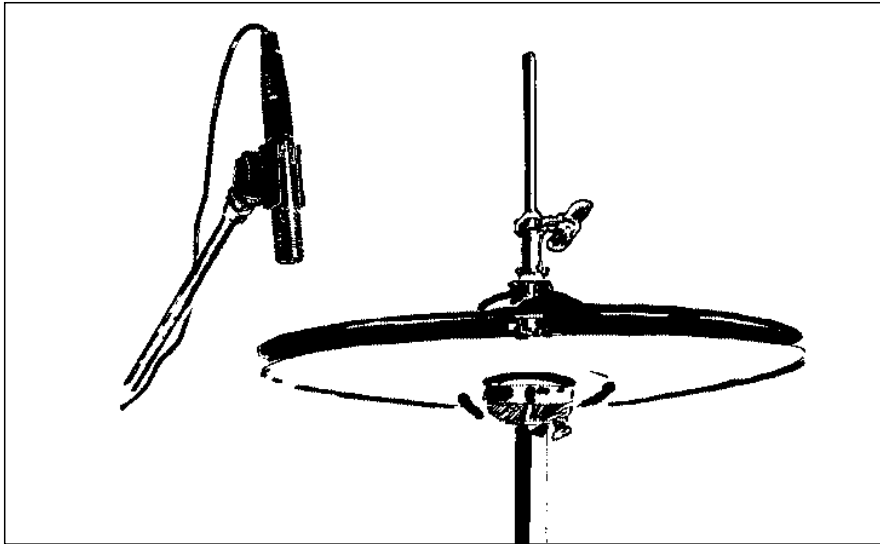


Fig. 3: Overhead miking of cymbals.

1. Mount the microphone on a boom stand (e.g., the optional ST 102A from AKG).
 2. Place the microphone above the cymbal at a distance roughly equal to the radius of the cymbal.
 3. Align the microphone with the outer rim of the cymbal.
-

3 Using Your Microphone



3.3 Hi-hat

Fig. 4: Miking up the hi-hat.

1. Mount the microphone on a boom stand (e.g., the optional ST 102A from AKG).
2. Place the microphone approximately 2 inches above the open hi-hat.
3. Align the microphone with the perimeter of the cymbals.
Make sure to point the microphone away from the snare drum to obtain good acoustic separation.

Refer to fig. 4.

4 Cleaning



To clean the microphone case, use a soft cloth moistened with water.



5 Troubleshooting

Problem	Possible Cause	Remedy
No sound:	<ol style="list-style-type: none">1. Power to mixer and/or amplifier is off.2. Channel or master fader on mixer, or volume control on amplifier is at zero.3. Microphone is not connected to mixer or amplifier.4. Cable connectors are seated loosely.5. Cable is defective.6. No supply voltage.	<ol style="list-style-type: none">1. Switch power to mixer or amplifier on.2. Set channel or master fader on mixer or volume control on amplifier to desired level.3. Connect microphone to mixer or amplifier.4. Check cable connectors for secure seat.5. Check cable and replace if damaged.6. Switch phantom power on. Phantom power supply: connect to power outlet or insert battery (batteries). Check cable and replace if necessary.
Distortion:	<ol style="list-style-type: none">1. Gain control on the mixer set too high.2. Mixer input sensitivity too high.	<ol style="list-style-type: none">1. Turn gain control down CCW.2. Connect a 10-dB preattenuation pad between microphone cable and input.

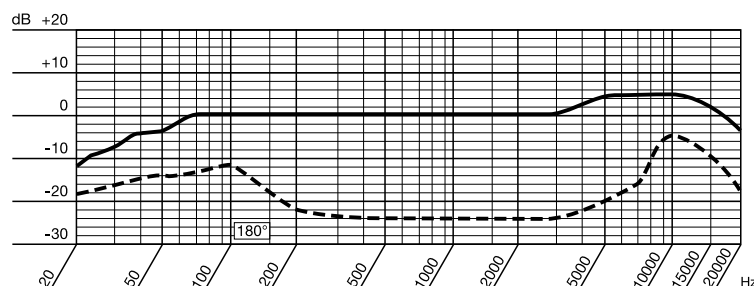
6 Specifications



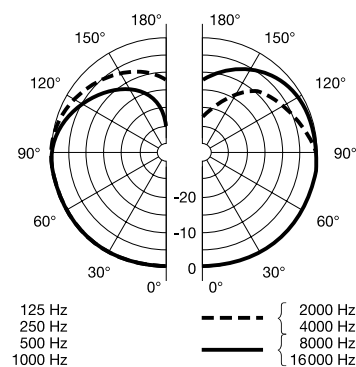
Type:	pre-polarized condenser microphone
Frequency range:	20 Hz to 20,000 Hz
Polar pattern:	cardioid
Sensitivity at 1 kHz:	7 mV/Pa (-43 dBV re 1 V/Pa)
Impedance:	200 Ω
Recommended load impedance:	>2000 Ω
Max. SPL for 1%/3% THD:	126/130 dB SPL
Equivalent noise level:	33 dB (A) (to DIN 45412)
Power requirement:	9 to 52 V universal phantom power
Current consumption:	approx. 2 mA
Connector:	3-pin male XLR
Finish:	matte black
Size:	length: 79 mm (3.1 in.); dia.: 19 mm (0.7 in.)
Net/shipping weight:	32 g (1.1 oz.) / 192 g (6.8 oz.)

This product conforms to EN 50 082-1 provided it is connected to equipment with a CE sign.

Frequency Response



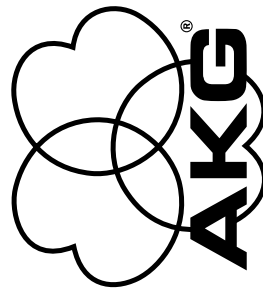
Polar Diagram



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Technische Änderungen vorbehalten. Specifications subject to change without notice. Ces caractéristiques sont susceptibles de modifications.

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