



WH20

Dynamic Headset Microphone

Shure WH20 dynamic headset microphone user guide. Includes specifications, how to position the mic and headband, washing info, and how to use the clothing clip.
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WH20

Dynamic Headset Microphone

General Description

The Shure Model WH20 is a rugged, light-weight, cardioid dynamic headset microphone that provides high-quality voice pick-up. It fits securely for active microphone users, such as aerobics instructors and musicians, or for any voice communications application where comfort and reliability are required. An integrated elastic headband secures the headset comfortably. The headband, wireframe, and gooseneck are adjustable to accommodate any head size or shape. The WH20 is supplied with a foam windscreen and clothing clip.

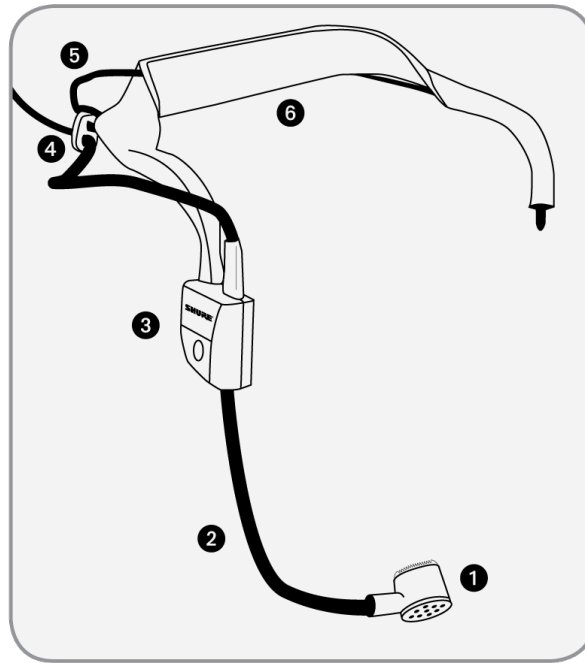
Features

- Lightweight wireframe and headband adjust for a secure, comfortable fit
- Extra-strong, small-diameter attached microphone cable resists breakage
- Collapsible microphone boom for easy storage and transportation
- Smooth, natural frequency response comparable to high-quality dynamic hand-held vocal microphones
- High input clipping level eliminates overload distortion
- Reliable at temperature and humidity extremes
- Supplied foam windscreen and clothing clip

MODEL VARIATIONS

- WH20QTR has a right-angle 1/4-inch phone plug for use with Shure Headset Wireless Microphone Systems, or any unbalanced microphone input.
 - WH20TQG has a miniature four-pin female connector for direct connection to Shure wireless body pack transmitters.
 - WH20XLR has a three-pin male XLR connector with a convenient detachable belt clip.
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Dynamic Headset Microphone



1. Microphone Cartridge
2. Microphone Boom
3. Hinged Housing
4. Cable and Cable Retainer
5. Wireframe
6. Elastic Headband

COLLAPSIBLE MICROPHONE BOOM

Before wearing the headset, unfold the collapsible boom until it snaps and locks into place. Refold for storage or transportation.

WEARING THE HEADSET

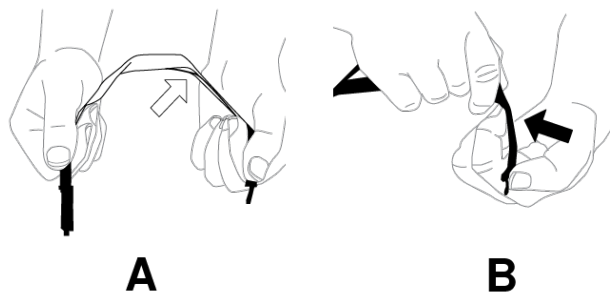
Place the headset so that the wireframe and elastic band are horizontal across the back of the head and the ends of the wireframe fit over and in front of the ears. Position the elastic headband either above or below the wireframe to provide the greatest comfort and stability. The white "SHURE" should face outward.



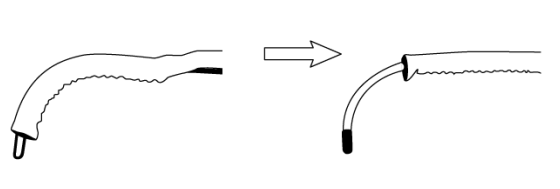
ADJUSTING THE HEADSET

- If the headset feels loose or uncomfortable, carefully bend the sides of the wireframe to make it tighter or looser. The angle of the wireframe earpieces may also need adjustment.
- Adjust the tension of the elastic headband across the back of the head by sliding it up or down the ends of the wireframe.

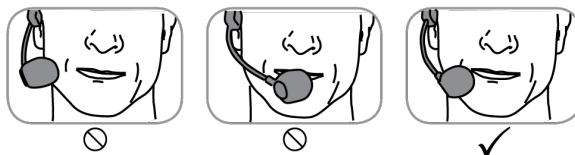
ADJUSTING THE WIREFRAME



ELASTIC HEADBAND ADJUSTMENT



POSITIONING THE MICROPHONE



IMPORTANT: For maximum gain before feedback, position the gooseneck so that the microphone grille (silver side) is within 25 mm (1 inch) of the right corner of the mouth. Do NOT position it directly in front of the mouth.

USING THE CLOTHING CLIP

The supplied spring-loaded clothing clip secures the microphone cable to the user's clothing and keeps it from becoming entangled with the user's movements.

OPERATION

Connect the WH20 to a wireless microphone transmitter or a balanced wired microphone input.

NOTE: The WH20 is a dynamic microphone and has inherently lower output than condenser microphones. The transmitter gain may need to be increased to compensate for the WH20's lower output.

WINDSCREEN

Install the supplied windscreen to avoid breath noise or "popping" and to protect the WH20 from dirt and moisture.

WASHING THE FOAM WINDSCREEN

When necessary, clean the windscreen in a mild soapy water solution.

IMPORTANT:

- Always remove the windscreen before cleaning.
- Allow it to air-dry thoroughly before re-installing.

WASHING THE ELASTIC HEADBAND

The elastic headband can be removed from the wireframe and hand-washed in a mild soapy water solution. To remove and wash the headband, follow these steps:

1. Remove the microphone cable retainer from the wireframe.
2. Slide the elastic headband off the wireframe.
3. Wash the headband and allow to dry thoroughly.
4. Slide the headband around the wireframe to its original position. Reattach the cable with the plastic retainer.

Note that the elastic headband supplied with the WH20 is not a standard size; headbands purchased in stores are too long for this application.

Specifications

Type

Dynamic (moving coil)

Frequency Response

50 to 15,000 Hz

Polar Pattern

Cardioid

Output Impedance

EIA rated at 150 Ω (200 Ω actual)

Output Configuration

-67.0 dBV/Pa (0.45 minimum)

Sensitivity

(at 1 kHz, open circuit voltage)

38.4 dB SPL

Polarity

Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3

Weight

Net: 0.63 kg (0.137 lbs)

Connector

3-pin male XLR

Environmental Conditions

Operating Temperature: 18 to 60° C (0 to 140° F) Storage Temperature: -29 to 74° C (-29 to 165° F) Relative Humidity: 0 to 95%

Certifications

CE Notice

Hereby, Shure Incorporated declares that this product with CE Marking has been determined to be in compliance with European Union requirements.

UKCA Notice

Hereby, Shure Incorporated declares that this product with UKCA Marking has been determined to be in compliance with UK-CA requirements.

Replacement Parts

TA4F 4-pin Mini Connector	WA330
Connector Belt Clip	RK200BC
Black Elastic Headband	RK319
Black Elastic Headband and Wireframe	RPM600
Microphone, Cable and Connector Assembly:1/4-inch (WH20QTR only)	RPM100
Mini, four pin connector (WH20TQG only)	RPM102
XLR (WH20XLR only)	RPM104
Black Windscreens (2) and Clothing Clip	RK318WS