

YAESU MD-200A8X ULTRA-HIGH-FIDELITY DESKTOP MICROPHONE

The **MD-200A8X** Desktop Microphone is designed for base station operation with the latest generation of Yaesu HF transceivers, including those with VHF/UHF capability. Designed especially for ultra-low distortion and the highest fidelity, the **MD-200A8X** includes a new-technology "Variable Side Pressure Control" (**VSPC**), which allows precise adjustment of the microphone's audio response without resorting to "active" equalization circuits that can introduce distortion and/or degrade signal-to-noise ratio.

The exceptional fidelity of the **MD-200A8X** is realized through the use of a high-quality Polyethylene Terephthalate Dynamic Element, which provides wide dynamic range. Using the **VSPC** control, "Hi-Fi" (totally flat), "DX" (additional "brightness" in the high-frequency range), or intermediate frequency responses can be set up.

The **MD-200A8X** includes provision for the installation of a user-supplied Dynamic, Magnetic, or Crystal microphone element, which then can be selected via a convenient slide switch on the microphone's base.

The **MD-200A8X** microphone's housing is suspended in a solid metal yoke with a shock-absorbing rubberized ring, to absorb low-frequency vibrations that can ruin fidelity and rob power from desired frequencies. Convenient switches for PTT and scanning activation are located on the solid aluminum die-cast base.

Please read this manual thoroughly, so as to get the most out of your new Yaesu **MD-200A8X** Microphone. *Patent Pending

INSTALLATION

1. Screw in the Microphone Neck into the Microphone Stand, then mount the Microphone Head onto the Microphone Stand, using the supplied Knob Screw (see Figure 1).
2. Connect the (short) Microphone Cable (with the miniature connector) from the microphone body to the base's miniature multi-pin jack.
3. Connect the supplied coiled cable to the MIC jack on the transceiver, and connect the other end of this cable to whichever of the MIC jacks on the rear of the **MD-200A8X** that is appropriate.
4. During operation, please keep the microphone housing in the vertical position. The Dynamic Microphone Element inside the housing is already canted upward by about 30°, so it is not necessary to adjust the microphone's housing toward an upward-facing angle.

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Declaration of Conformity

We, Yaesu UK Ltd, certify and declare under our sole responsibility that the following equipment complies with the essential requirements of the Directive 1999/5/EC and 2011/65/EU.

| | |
|-------------------------|---|
| Type of Equipment | Dynamic Desk Microphone |
| Brand Name | YAESU |
| Model Number | MD-200A8X |
| Manufacturer | YAESU MUSEN CO. LTD. |
| Address of Manufacturer | Tennozu Parkside Building, 2-5-8 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002 Japan |

Applicable Standards:
This equipment is tested to and conforms to the essential requirements of directive, as included in following standards:

| | |
|------------------------------|--|
| EMC 1999/5/EC Art. 3 (1) (b) | EN 301 489-01 V1.9.2 EN 301 489-15 V1.2.1 |
| ROHS2 2011/65/EU Art. 7 (b) | EN 50581:2012 |

The technical documentation as required by the Conformity Assessment procedures is kept at the following address:

Company Address: Yaesu UK Ltd, Unit 12, Sun Valley Business Park, Winnall Close, Winchester, Hampshire UK SO23 0LB
Issued by: Yaesu Musen Co. Ltd, Tokyo Japan
File No: YETA00214
Drawn up in: Winchester, Hampshire UK
Date: 29th March 2014

Signed for and on behalf of Yaesu UK Ltd

PCJ Bigwood
Name and position: PCJ Bigwood
Technical Sales Manager



Check with the Catalog for applicable models.

* The **FT-1000/1000D/990/840** do not support the illumination of the TX LED during transmission.

YAESU MUSEN CO., LTD.

INSTALLATION AND OPERATION TIPS

- Keep the **MD-200A8X** and its cable away from power supplies and their power cables, to minimize the chance for inductive pick-up of AC noise and hum.
- Especially during portable operation, keep the **MD-200A8X** away from your antenna, its coaxial cable, and its counterpoise (if used), so as to minimize the chance for pick-up of RF interference.
- The **MD-200A8X** microphone head cannot be operated alone.
- Do not change the position of the Microphone Element Selector Switch while transmitting.

ADJUSTMENT OF FREQUENCY RESPONSE USING VSPC

The **MD-200A8X** employs a new technology for adjustment of the frequency response, called "**VSPC**" (Variable Side Pressure Control). The **VSPC** adjustment is accomplished using a ring around the Dynamic element, inside the microphone's housing.

Adjustment of the frequency response is best performed using a separate receiver in your station. Disconnect the antenna from the monitor receiver, and disable the input preamplifier and/or activate the input attenuator, if necessary, to reduce the signal from your transceiver to a reasonable level (S7 to S9 maximum).

To adjust the frequency response of the MD-200A8X:

1. Unscrew the two large gold screws with a help of a coin (a U.S. 5¢ coin is ideal), one from each side of the yoke supporting the **MD-200A8X** housing. Detach the microphone head from the microphone yoke, then remove the top cover from the microphone head (see Figure 2).
2. Referring to Figure 3, gently turn the **VSPC** ring to achieve the desired voice characteristics. The default setting (configured at the factory) for the **VSPC** is "**Flat**," which provides the most broad, natural-sounding, high-fidelity response. This response is obtained when the calibration mark (■) is positioned at the top. The adjustment range of the **VSPC** ring is 180°; rotation of the **VSPC** ring fully clockwise (or counter-clockwise) will produce emphasis on the higher frequencies, ideal for contest or DX work; fidelity will still be excellent, however.

The **VSPC** ring is a precision adjustment instrument. Please turn the **VSPC** ring carefully when making adjustments.

3. Replace the top cover onto the microphone housing, then replace the microphone head onto the microphone yoke, using the two large gold screws with a help of a coin. Installation is now complete.

日本語の説明は、裏面に記載してあります。

INSTALLING AN ADDITIONAL MICROPHONE ELEMENT

If you wish to install an additional microphone element (not supplied) into your **MD-200A8X** housing, use the following procedure:

1. Unscrew the two large gold screws with a help of a coin, one from each side of the yoke supporting the **MD-200A8X** housing. Detach the microphone head from the microphone yoke, then remove the top cover from the microphone head (see Figure 2).
2. Referring to Figure 4, mount the new microphone element into the microphone housing, using the supplied mounting board; peel off the protective sheet from the adhesive tape on the mounting board, then stick on the microphone element.
3. Wrap the supplied **Sponge Sheet** around the user-supplied microphone element to reduce wind noise or to conceal it from view.

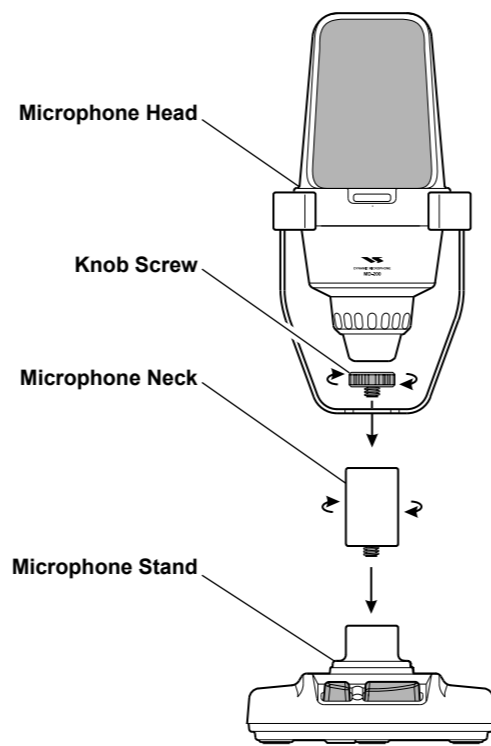


Figure 1

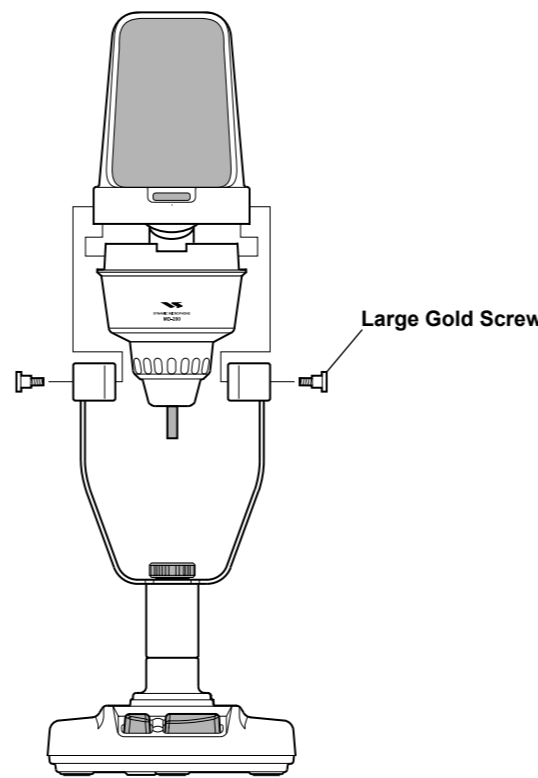
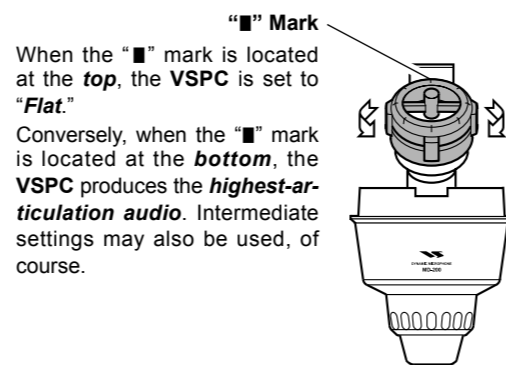


Figure 2



When the "■" mark is located at the **top**, the **VSPC** is set to "**Flat**." Conversely, when the "■" mark is located at the **bottom**, the **VSPC** produces the **highest-articulation audio**. Intermediate settings may also be used, of course.

Gently turn the **VSPC** ring to achieve the desired voice characteristics.

Figure 3

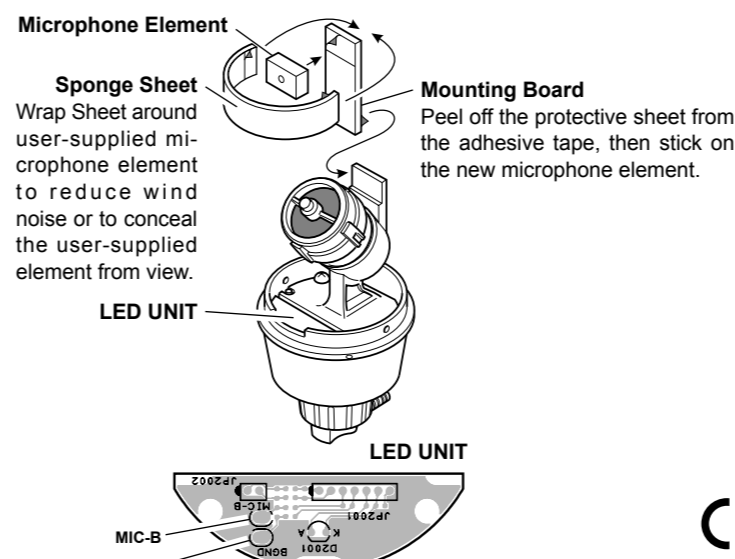


Figure 4

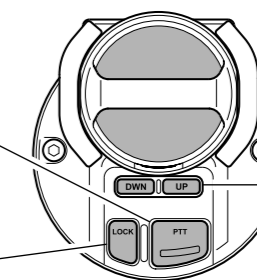
4. Solder the wires from the new element to the solder pads on the "LED Unit" circuit board: The "hot" microphone lead goes to "**MIC-B**," and the Microphone Ground lead goes to "**BGND**."
5. Replace the top cover onto the microphone housing, then replace the microphone head onto the microphone yoke, using the two large gold screws with a help of a coin. Installation is now complete.
6. To engage the newly-installed microphone element, set the Microphone Element selector Switch to the "**B**" position (the "normal" position, using the factory-supplied microphone element, is "**A**").

We recommend that the microphone housing be canted upward by about 30° to pick up your voice clearly when operating with the "**B**" microphone element.

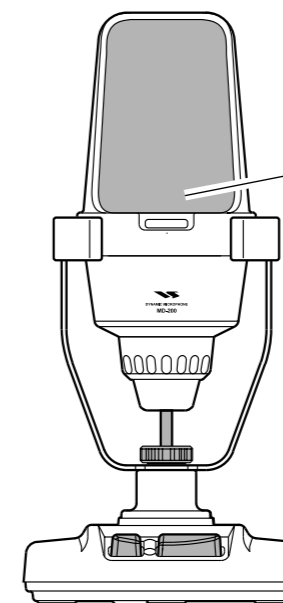
SWITCHES AND CONNECTORS

Main PTT Switch: Press and hold in this switch to transmit, and release it to receive.

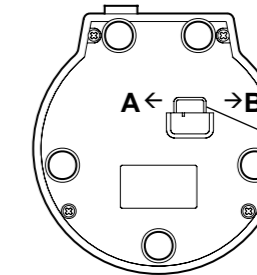
PTT Lock Switch: Press this switch to lock the PTT circuit on (for long transmissions); press it once more to release the PTT and return to the receive mode.



UP/DWN Switches: Press one of these switches momentarily to step the operating frequency (or memory channel) up or down, respectively. If the squelch is closed, holding one of these keys down will engage scanning, which will continue until a signal is found (or until you press the PTT switch). **Some models do not support the scanning function.**

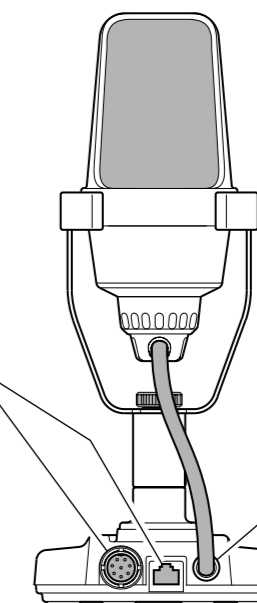


TX LED: This LED glows Red when you are transmitting (except on the some models, which do not support this function. See "Applicable Transceiver" section).



Microphone Element Selector Switch: Use this switch to select between the stock Polyethylene Terephthalate Dynamic Element ("**A**") and the user-supplied microphone element ("**B**"), if installed. Do not move the position of this switch while transmitting.

MIC Jacks: The supplied (coiled) cable includes a modular microphone plug on one end, and a round 8-pin microphone plug on the other. Connect the matching plug on the cable to the transceiver's MIC jack, and connect the other end of the cable to the matching jack on the microphone's base. Do not attempt to use both jacks on the microphone base at the same time.



Mini MIC Jack: Connect the short cable emanating from the microphone housing to this miniature microphone connector.

SPECIFICATIONS

Microphone Element Type: Dynamic
Frequency Range: 30 - 17000 Hz
Sensitivity: -62 dB (1 kHz, 0 dB = 1 V/1 pa)
Impedance: 600 Ohms
Dimensions (WHD): 4.7" x 11.4" x 4.9"
(120 x 290.5 x 124.5 mm)
Weight: Approx. 2.2 lb. (1 kg.)

Specifications are subject to change without notice or obligation.

Disposal of your Electronic and Electric Equipment

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Electronic and Electric Equipment should be recycled at a facility capable of handling these items and their waste by products. In EU countries, please contact your local equipment supplier representative or service center for information about the waste collection system in your country.



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