

MONITOR SPEAKER

ME-160

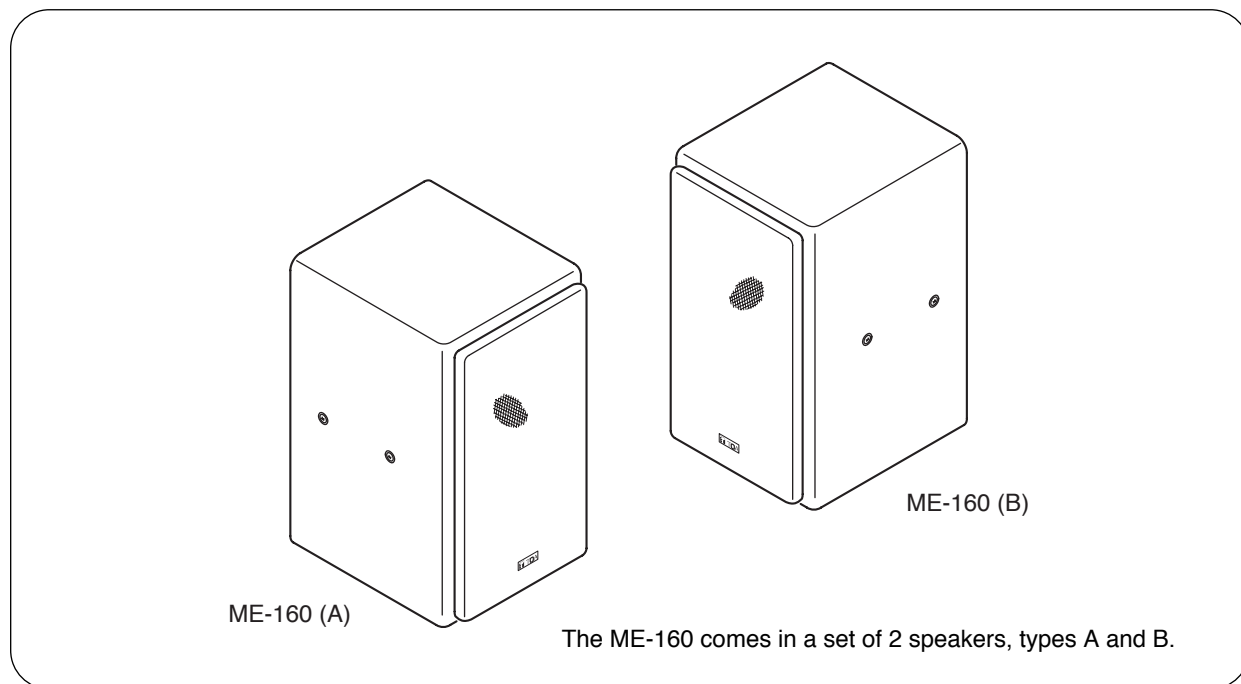


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Thank you for purchasing TOA's Monitor Speaker.

Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

1. SAFETY PRECAUTIONS

- Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation.
- Be sure to follow all the precautionary instructions in this section, which contain important warnings and/or cautions regarding safety.
- After reading, keep this manual handy for future reference.

Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety hazards.



WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down and causing personal injury and/or property damage.
- Install the unit only in a location that can structurally support the weight of the unit and the mounting bracket. Doing otherwise may result in the unit falling down and causing personal injury and/or property damage.
- Be sure that at least two persons are available to install the unit safe and secure. Failure to do so could result in personal injury.
- Do not use other methods than specified to mount the bracket. Extreme force is applied to the unit and the unit could fall off, possibly resulting in personal injuries.
- Use nuts and bolts that are appropriate for the ceiling's or wall's structure and composition. Failure to do so may cause the unit to fall, resulting in material damage and possible personal injury.
- Tighten each screw securely. Ensure that the unit has no loose joints after installation to prevent accidents that could result in personal injury.
- Use the specified speaker holder in combination. Doing otherwise may cause the unit or component to fall off, resulting in personal injury.
- Do not mount the unit in locations exposed to constant vibration. The mounting bracket can be damaged by excessive vibration, potentially causing the unit to fall, which could result in personal injury.
- Do not damage the speaker cable nor run it near heaters. In addition, never place heavy objects - including the unit itself - on the speaker cable, as doing so may result in fire.
- Do not insert nor drop metallic objects or flammable materials in the front bass-reflex port, as this may result in fire.
- Should the following irregularity be found during use, immediately stop operating the unit and contact your nearest TOA dealer. Further attempt to use under this condition may cause fire or electric shock.
 - If you detect smoke or a strange smell coming from the unit
 - If no tone sounds



CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Do not stand or sit on, nor hang down from the unit as this may cause it to fall down or drop, resulting in personal injury and/or property damage.
- Have the unit checked periodically by the shop from where it was purchased. Failure to do so may result in corrosion or damage to the unit or its mounting bracket that could cause the unit to fall, possibly causing personal injury.

2. GENERAL DESCRIPTION

TOA's ME-160 is a 2-way bass-reflex monitor speaker featuring flat frequency characteristics, low distortion, and high-resolution sound quality. It is particularly suited to music reproduction in small spaces. The ME-160 can be suspended from a wall or ceiling using an optional speaker holder.

3. FEATURES

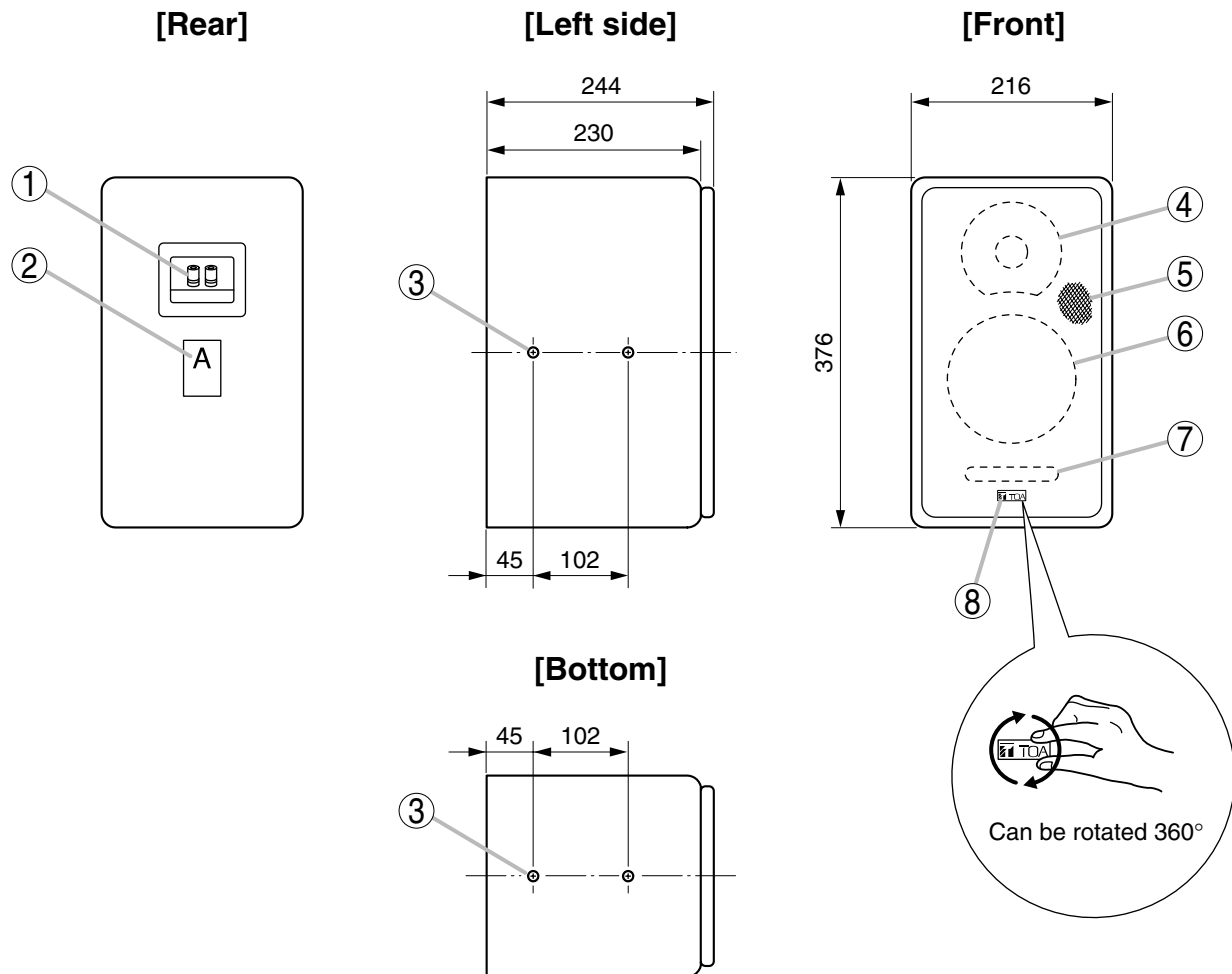
- Woofer cone of new material made by compacting natural fibers in resin realizes depth-feeling acoustic space, presenting clear sound image.
- Soft dome tweeter of Tetron-based material, coated with acrylic damping material, has moderate amount of internal loss, providing smooth characteristics in high frequency range.
- Magnetically-shielded woofer and tweeter permit the ME-160 to be installed in close proximity to a video monitor or CRT.
- Gold-plated screw-type input terminals (compatible with dual banana plugs) help ensure superb sound quality.
- A speaker enclosure made of MDF ("medium density fireboard," made by compacting finely chipped timber fibers in resin) contributes to the more natural-sounding audio qualities characteristically offered by wood.
- A slit-type bass-reflex port prevents sound leakage from the inside of the enclosure and helps keep the reproduced sound free of muddiness.
- Finished with black paint and equipped with a detachable front grille.
- The speaker enclosure has mounting screw holes (102 mm interval) on both its side and bottom surfaces, allowing the speaker to be suspended from a wall or ceiling using the optional speaker holder.

4. HANDLING PRECAUTIONS

- The ME-160 employs no protection circuit against excessive input power.
Do not apply input power exceeding the allowable rating to the speaker because this may damage the built-in speaker component.
- To clean the speaker enclosure, wipe with a dry cloth. When the enclosure gets very dirty, use a cloth damped in a neutral cleanser. Never use benzene, thinner or chemically-treated cleaning cloth because such volatile liquids could deform or discolor the enclosure.
- Do not face the speaker front down with the front grille removed. The speaker unit may be damaged.
- Never touch the tweeter's dome diaphragm. It may be dented or deformed, not restoring to its original state.

5. NOMENCLATURE AND DIMENSIONS

Unit: mm



1. Input terminals

These gold-plated terminals are also compatible with a dual banana plug. (Refer to p. 8.)

2. Speaker ID indication

A: Indicates the speaker having mounting screw holes (3) on both its left side and bottom surfaces.

B: Indicates the speaker having mounting screw holes (3) on both its right side and bottom surfaces.

3. Speaker mounting screw holes

Used for suspending the speaker from a wall or ceiling. (Refer to p. 6.)

Note

Remove the M5 x 30 screws inserted into an enclosure and use them when mounting the speaker holder.

4. Tweeter

2.5 cm soft dome tweeter, magnetically shielded.

5. Front grille

Can be easily attached and detached. (Refer to p. 9.)

6. Woofer

16 cm cone woofer, magnetically shielded.

7. Bass-reflex port

8. TOA logo

Can be rotated 360° depending on the speaker orientation (vertical or horizontal installation).

6. MOUNTING THE SPEAKER

- The speaker can be suspended from a wall or ceiling using an optional speaker holder.
- Mounting screw holes (102 mm interval) provided on both side and bottom surfaces of an enclosure permit the speaker to be suspended vertically or horizontally as required.
- Use the method that is appropriate for ceiling panel materials and installation places when mounting the speaker.

Optional Speaker Holders	WCB-31 : For use of wall/ceiling mounting, 211 mm in length CMB-31 : For use of ceiling mounting, 141 mm in length
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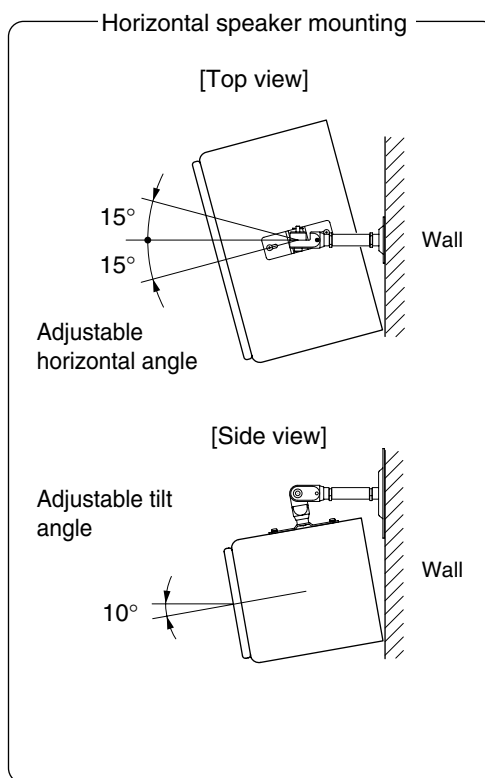
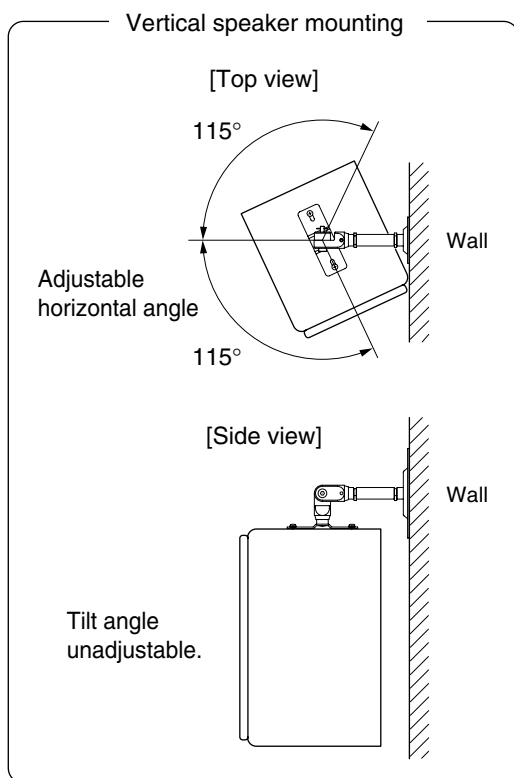
Note: Use M5 x 30 screws inserted into an enclosure to mount the optional speaker holder.

When mounting the speaker holder (WCB-31 and CMB-31) to the ME-160 speaker, do not use the screws supplied with the speaker holder because they are too short to mount the holder.

6.1. Mounting Examples

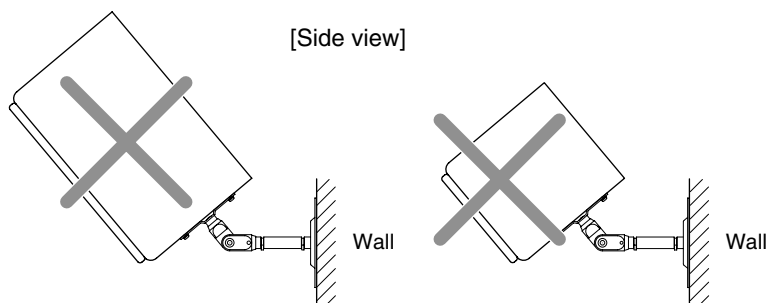
6.1.1. Examples of wall and ceiling mounting using the WCB-31

[Wall Mounting]

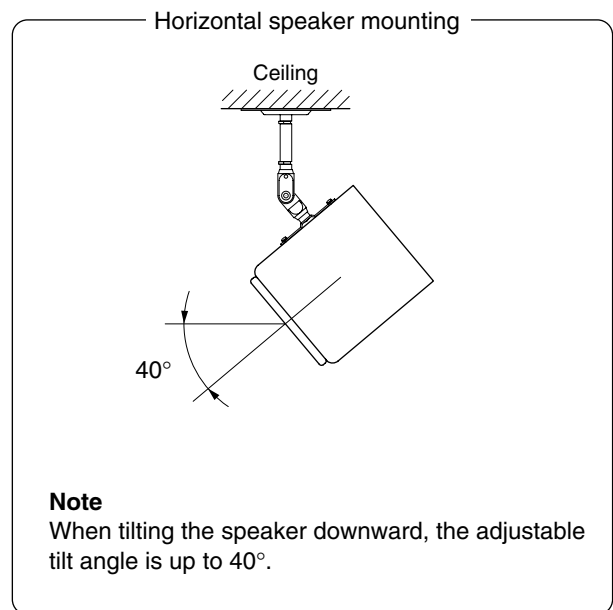
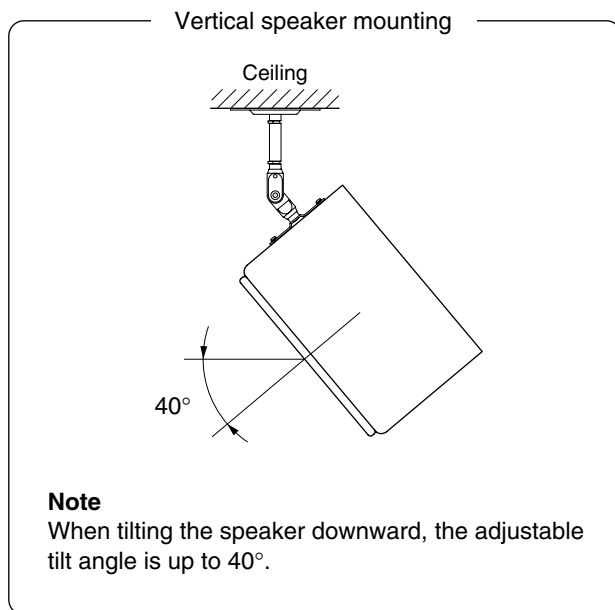


⚠ WARNING

Avoid mounting the speaker as shown at the right.
The speaker may fall due to damage to its components and parts, possibly resulting in personal injury.

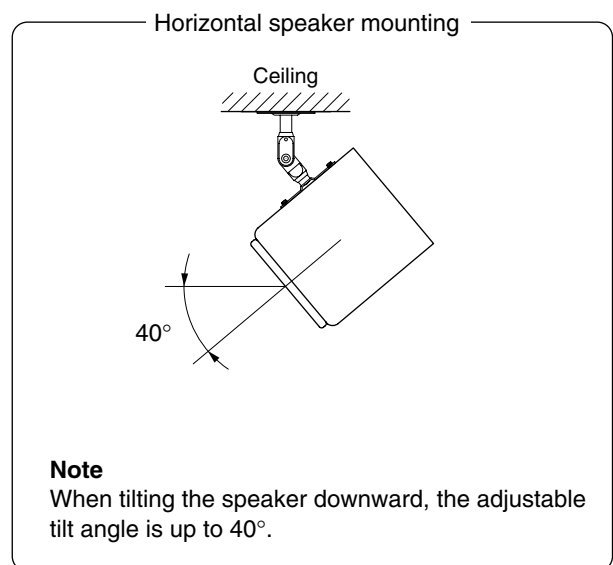
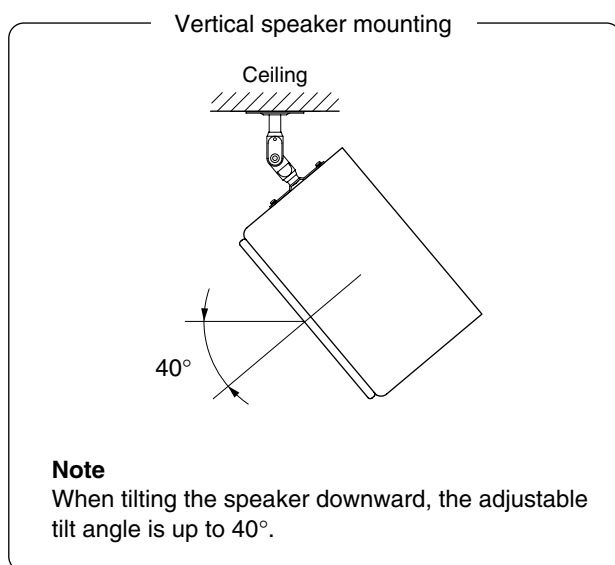


[Ceiling Mounting]



6.1.2. Examples of ceiling mounting using the CMB-31

[Ceiling Mounting]

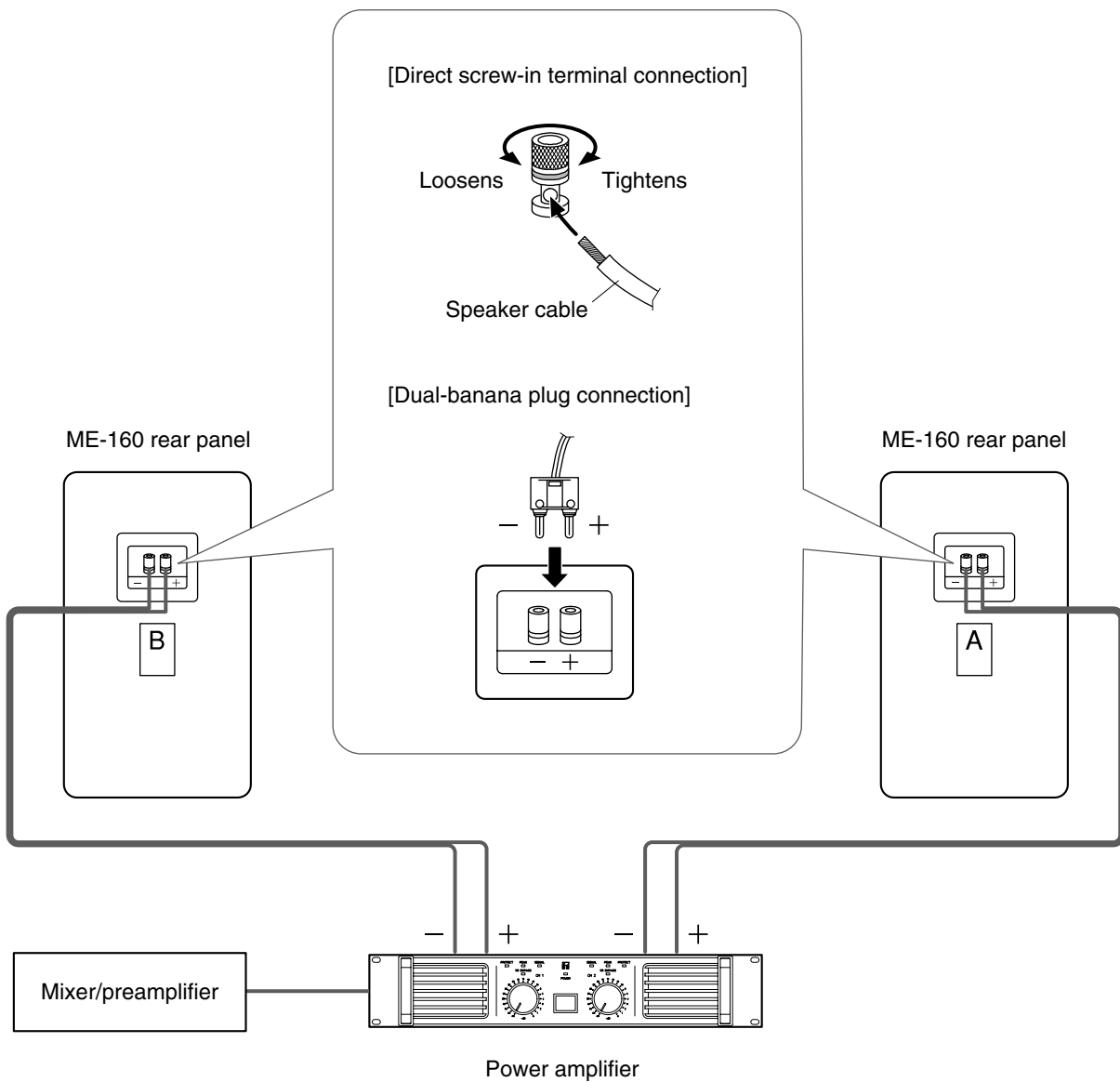


7. CONNECTIONS

- Use the speaker cable (parallel vinyl cable) that is appropriate for the system.
- The ME-160 speaker uses gold-plated screw terminals.
- Speaker cables can be connected by directly inserting them into the screw-in terminals or using a dual-banana plug.

Note

Be sure to switch OFF the amplifier power when connecting the speaker to the amplifier.



8. FRONT GRILLE ATTACHMENT AND DETACHMENT

The front grille is attached to the speaker when the speaker is shipped by the factory.
The front grille can be easily attached and detached.

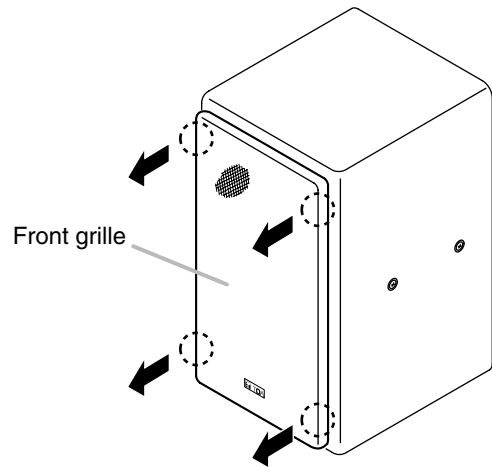
8.1. Detachment

Note

Refer to the figure in the next section Attachment.

Detach the upper part of the front grille by simultaneously pulling the two places close to the catchers forward.
Support the speaker as you do this so that it does not move.

Once the upper part of the front grill has been removed, detach the lower part of the front grille in the same manner.

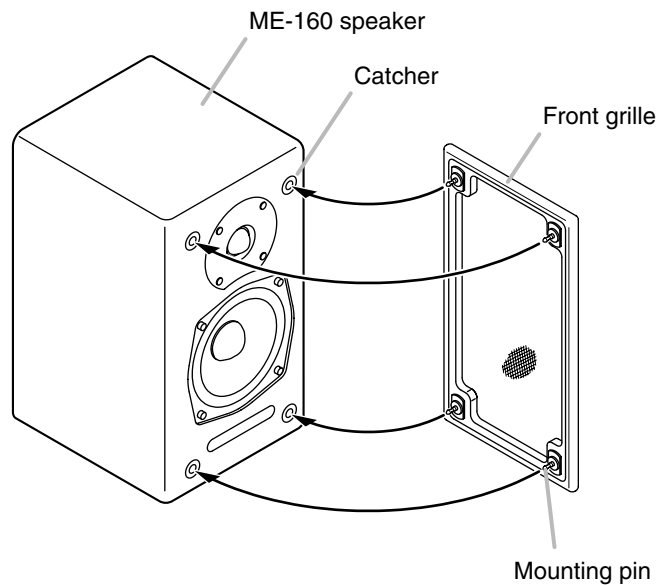


8.2. Attachment

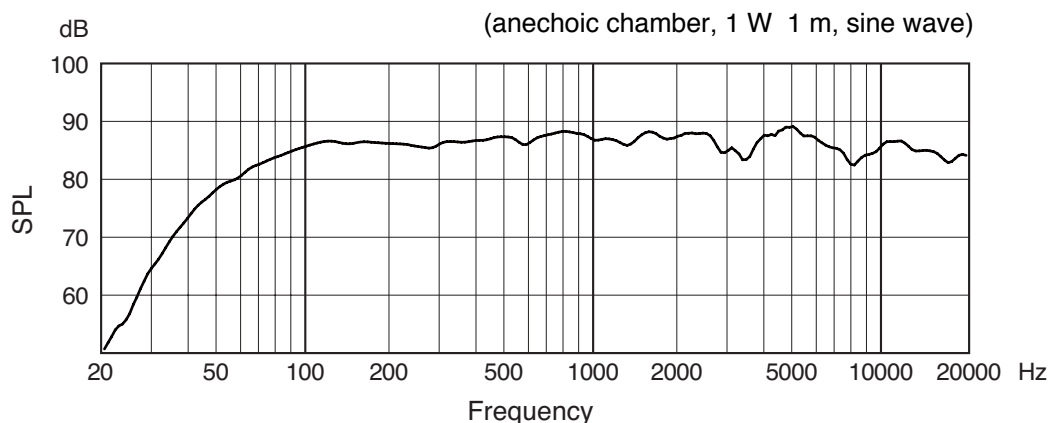
Note

Ensure that each of the mounting pins of the front grille is aligned with its corresponding catcher.

Press on the front grille firmly until it clicks into place.



9. CHARACTERISTIC DIAGRAM



10. SPECIFICATIONS

Enclosure	Bass reflex type
Power Handling Capacity	Continuous pink noise: 50 W Continuous program: 150 W
Impedance	6 Ω
Sensitivity	88 dB (1 W, 1 m)
Frequency Response	50 – 20,000 Hz
Crossover Frequency	2,000 Hz
Speaker Component (magnetically shielded)	16 cm resin-impregnated natural fiber cone woofer 2.5 cm soft dome tweeter
Input Terminal	Screw-in terminals (compatible with a dual-banana plug), gold plated
Finish	Enclosure: Black, paint Front grille: Black, cloth
Dimensions	216 (w) x 376 (h) x 244 (d) mm
Weight	7.5 kg (per unit)

Note: The design and specifications are subject to change without notice for improvement.

• Optional products

WCB-31 (Speaker holder) : For use of wall/ceiling mounting

CMB-31 (Speaker holder) : For use of ceiling mounting

Traceability Information for Europe (EMC directive 2004/108/EC)

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