

SPEAKER RIGGING BRACKETS

HY-VM7B HY-VM7W

Thank you for purchasing TOA's Speaker Rigging Bracket.

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

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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.

⚠ WARNING

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

- Refer all installation work to the dealer from whom the speaker was purchased. Installation for flying requires extensive technical knowledge and experience. The speaker may fall off if incorrectly installed, resulting in possible personal injury.
- Flying Precautions
 Be sure to follow the instructions below. Otherwise, the suspension wires or belts may be off or snap
 - injury.Check to confirm that the suspension wires and belts are strong enough to withstand the speaker

and the speaker may fall off, causing personal

 The connectors of the suspension wires and belts must be securely linked with those of the speaker.

- · All parts and components (such as enclosures, metal pieces, and screws) must be free from any deformation, crack, and corrosion.
- Be sure to use screws supplied with the optional flying hardware when installing the speaker using such hardware.
- Install the speaker only in a location that can structurally support the weight of the speaker and the mounting bracket. Doing otherwise may result in the speaker falling down and causing personal injury and/or property damage.
- Since the bracket is designed for indoor use, do not install it outdoors. If installed outdoors, the aging of parts causes the speaker to fall off, resulting in personal injury. Also, when it gets wet with rain, there is a danger of electric shock.
- Owing to the speaker's size and weight, be sure that at least two persons are available to install the speaker. 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 bracket and the speaker could fall off, possibly resulting in personal injuries.
- Attach the safety wire to the speaker. If not attached, it could fall off, resulting in personal injury.
- Use safety wires when installing speakers. If not used, personal injury could result if a speaker should accidentally fall.
- Use nuts and bolts that are appropriate for the ceiling's or wall's structure and composition. Failure to do so may cause the speaker to fall, resulting in

material damage and possible personal injury.

- Tighten each nut and bolt securely. Ensure that the bracket has no loose joints after installation to prevent accidents that could result in personal injury.
- Use the HX-7B or HY-7W Speaker System in combination. Doing otherwise may cause the speaker or component to fall off, resulting in personal injury.
- Do not mount the speaker in locations exposed to constant vibration. The mounting bracket can be damaged by excessive vibration, potentially causing the speaker to fall, which could result in personal injury.
- Avoid installing the speaker in locations such as in indoor swimming facilities that are not well ventilated. In such locations, the bracket may be vulnerable to corrosion, eventually allowing the speaker to fall resulting in personal injury.

A CAUTION

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

- Avoid touching the bracket's sharp metal edge to prevent injury.
- Do not place heavy objects on the speaker 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 stand or sit on, nor hang down from the bracket as this may cause the speaker to fall down or drop, resulting in personal injury and/or property damage.
- Have the bracket checked periodically by the shop from where it was purchased. Failure to do so may result in corrosion or damage to the bracket that could cause the speaker to fall, possibly causing personal injury.

2. GENERAL DESCRIPTION

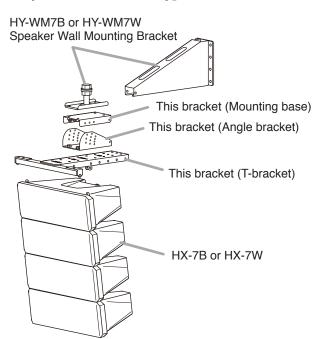
The HY-VM7 Series Speaker Rigging Brackets are used to connect the HX-7B or HX-7W Speaker System to the optional HY-WM7B or HY-WM7W Speaker Wall Mounting Brackets or HY-C0801 or HY-C0801W Speaker Ceiling Mounting Brackets. It is also possible to suspend the speaker system from the ceiling or mount it to the ceiling or beams with the use of the HY-VM7 bracket.

3. MOUNTING THE SPEAKER ON A WALL (using the optional HY-WM7B or HY-WM7W bracket)

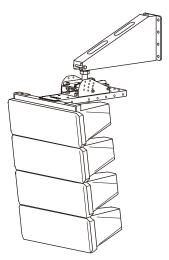
Mount a single HX-7B or HX-7W Speaker System to the wall by using the HY-VM7 in combination with the optional HY-WM7B or HY-WM7W bracket.

3.1. Mounting Diagrams

[Component disassembly]



[Completed installation]



Note

Only one HX-7B or HX-7W speaker can be mounted. Two joined speakers cannot be mounted.

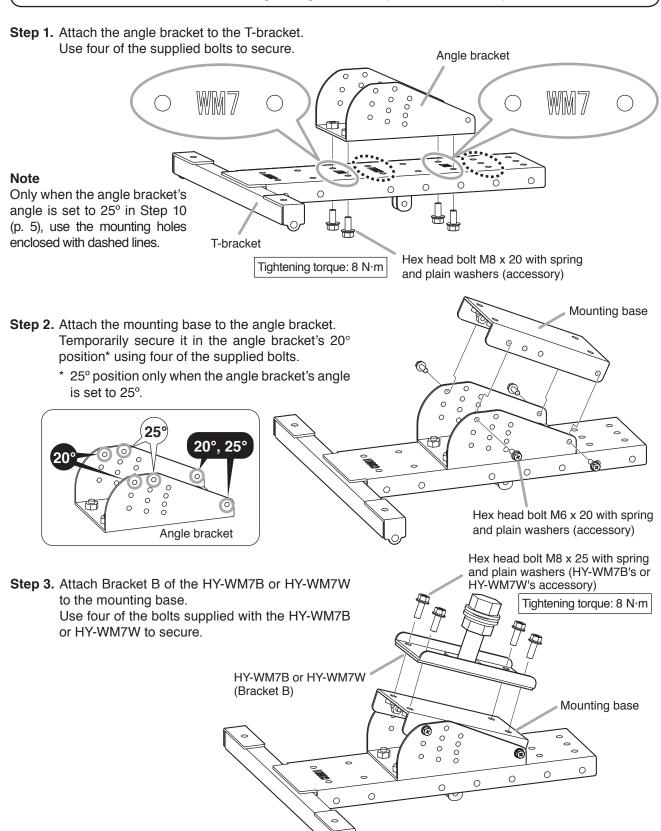


Tighten the bolts securely, as instructed below.

Failure to follow instructions precisely could result in a falling speaker and potential personal injury.

- Ensure that all bolts are securely inserted as far as their threads go, then securely fasten each bolt with a nut.
- Tighten all the bolts with the designated tightening torque.

 For tightening, use a Phillips screwdriver, or open- or box-end wrench.



Step 4. Attach the T-bracket to the speaker.

Attach with the speaker set above as shown in the figure.

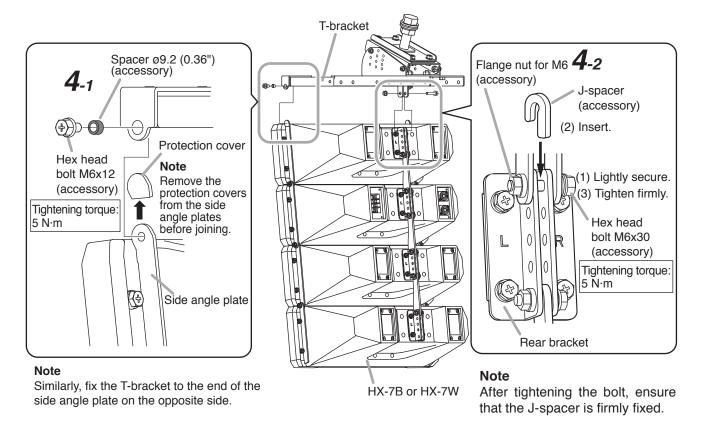
Fix the T-bracket to the speaker at all 3 indicated positions.

- **4-1.** Fix the T-bracket to both ends of the side angle plates of the speaker front. Use the supplied bolts (with spring and plain washers) and spacers.
- **4-2.** Fix the T-bracket to the speaker's rear bracket.

Fix to the rear bracket's endmost hole.

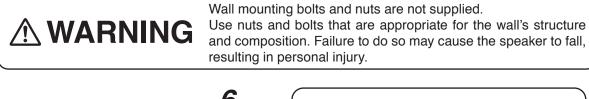
Use the supplied bolt (with spring and plain washers), J-spacer, and flange nut.

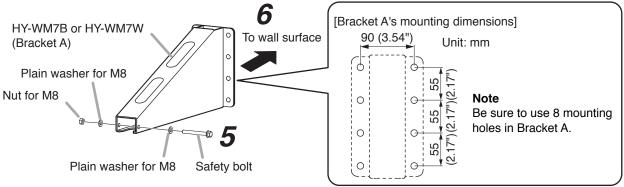
For details, refer to the procedures (1) to (3) as shown below.



Step 5. Remove the safety bolt from Bracket A of the HY-WM7B or HY-WM7W.

Step 6. Using 8 bolts, etc., mount Bracket A of the HY-WM7B or HY-WM7W to the wall.



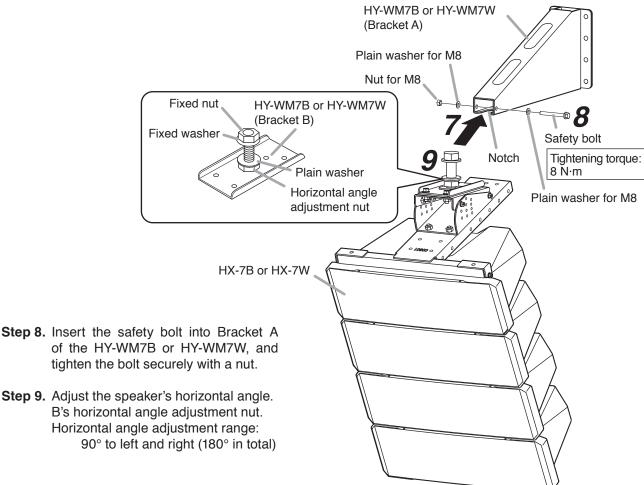


Step 7. Fit the HY-WM7B's or HY-WM7W's Bracket B bolt into the notch of Bracket A.

In this event, a fixed washer must be positioned above the notch, and a plain washer positioned below it.

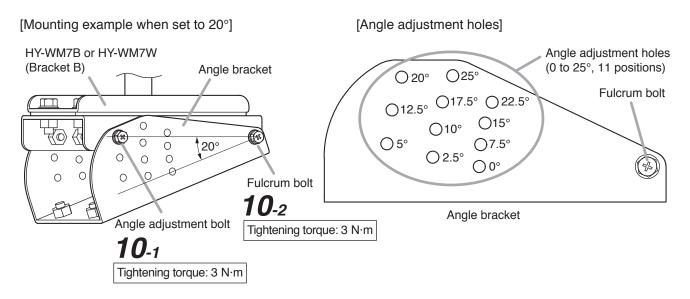
MARNING

Owing to the speaker's size and weight, be sure that at least two persons are available to install the unit. Failure to do so could result in personal injury.



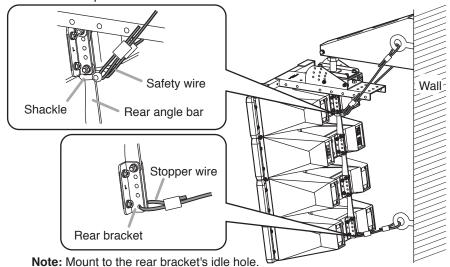
- **Step 10.** Set the angle bracket's angle and secure with a bolt.

 The speaker's downward tilt angle is determined by the angle bracket's set angle.
 - 10-1. Remove the angle setting bolt, then fit it into the desired angle setting hole and fix.
 - 10-2. Tighten the partially inserted fulcrum bolt.



Step 11. Mount the safety wires and stopper wire.

For the safety wire mounting method, refer to the operating instructions supplied with the HX-7B or HX-7W speaker.



Note

Secure the safety wire to beams, pillars or other strong structures.

4. MOUNTING THE SPEAKER TO A CEILING

(using the optional HY-C0801 or HY-C0801W bracket)

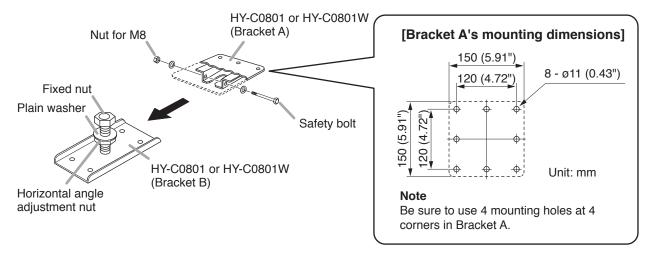
Mount a single HX-7B or HX-7W Speaker System to a ceiling by using the HY-VM7 in combination with the optional HY-C0801 or HY-C0801W Speaker Ceiling Mounting Bracket.



- Joined HX-7B or HX-7W speakers cannot be suspended from the ceiling using either the HY-C0801 or HY-C0801W brackets. Failure to observe this caution could result in a speaker falling, potentially causing personal injury.
- Tighten the bolts securely, as instructed below.
 Failure to follow instructions precisely could result in a falling speaker and potential personal injury.
- Ensure that all bolts are securely inserted as far as their threads go, then securely fasten each bolt with a nut.
- Tighten all the bolts with the designated tightening torque.

 For tightening, use a Phillips screwdriver, or open- or box-end wrench.

Step 1. Remove the safety bolt from Bracket A of the HY-C0801 or HY-C0801W, and detach Bracket B.

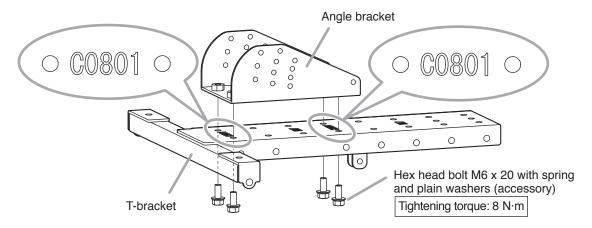


Step 2. Mount Bracket A of the HY-C0801 or HY-C0801W to a ceiling using four or more bolts.



Ceiling mounting bolts and nuts are not supplied. Use nuts and bolts that are appropriate for the ceiling's structure and composition. Failure to do so may cause the speaker to fall, resulting in personal injury.

Step 3. Attach the angle bracket of this bracket to the T-bracket. Use four of the supplied bolts to secure.



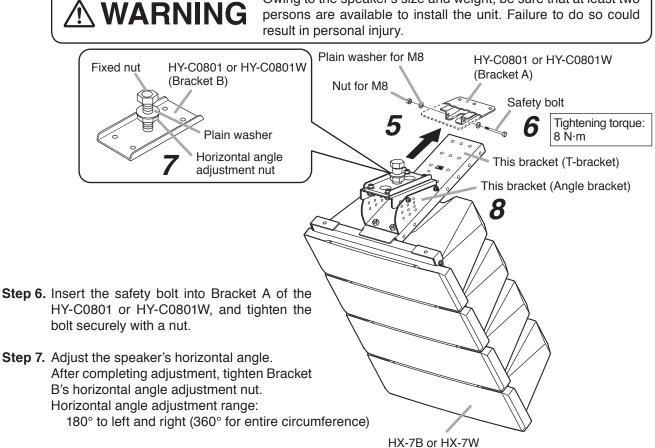
Step 4. Mount the HY-VM7's T-bracket and angle bracket, and Bracket B of the HY-C0801 or HY-C0801W to the speaker.

Subsequent procedures are the same as those described in **Steps 2** to **4** in the chapter, "MOUNTING THE SPEAKER ON A WALL" (p. 3 and 4). However, read "HY-WM7B or HY-WM7W" as "HY-C0801 or HY-C0801W."

Owing to the speaker's size and weight, be sure that at least two

Step 5. Fit the HY-C0801's or HY- C0801W's Bracket B bolt into the notch of Bracket A.

In this event, a fixed washer must be positioned above the notch, and a plain washer positioned below it.



Step 8. Set the angle bracket's angle and secure with a bolt.

Subsequent procedures are the same as those described in Step 10 in the chapter, "MOUNTING THE SPEAKER ON A WALL" (p. 5).

Step 9. Mount the safety wires.

For the safety wire mounting method, refer to the operating instructions supplied with the HX-7B or HX-7W speaker.

5. SUSPENDING THE SPEAKER FROM A CEILING (only the T-bracket is used)

The HX-7B or HX-7W Speaker System can be suspended from a ceiling by only using the T-bracket.



Tighten the bolts securely, as instructed below.

Failure to follow instructions precisely could result in a falling speaker and potential personal injury.

- Ensure that all bolts are securely inserted as far as their threads go, then securely fasten each bolt with a nut.
- Tighten all the bolts with the designated tightening torque. For tightening, use a Phillips screwdriver, or open- or box-end wrench.

Step 1. Attach the T-bracket to the speaker.

Attach with the speaker set above as shown in the figure.

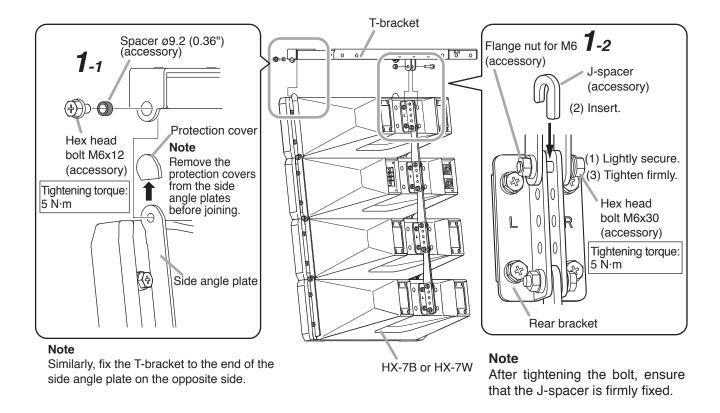
Fix the T-bracket to the speaker at all 3 indicated positions.

- **1-1.** Fix the T-bracket to both ends of the side angle plates of the speaker front. Use the supplied bolts (with spring and plain washers) and spacers.
- **1-2.** Fix the T-bracket to the speaker's rear bracket.

Fix to the rear bracket's endmost hole.

Use the supplied bolt (with spring and plain washers), J-spacer, and flange nut.

For details, refer to the procedures (1) to (3) as shown below.



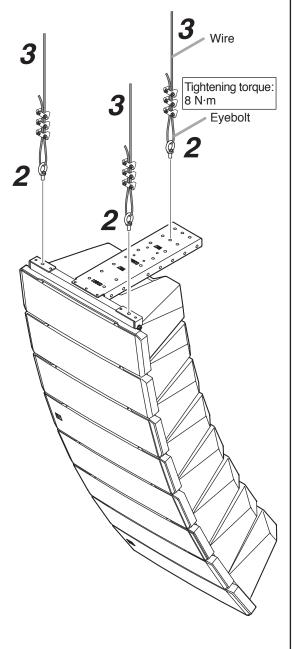
Step 2. Mount eyebolts to the T-bracket.

The T-bracket has three M8 eyebolt mounting holes.

Be sure to install the eyebolts in these 3 places.

Eyebolts are not supplied with the bracket. Prepare them separately.

Step 3. Attach the suspension wires to the eyebolts, and suspend the speaker at 3 points using chains, anchor shackles, etc.



Step 4. Mount the safety wires. For the safety wire mounting method, refer to the operating instructions

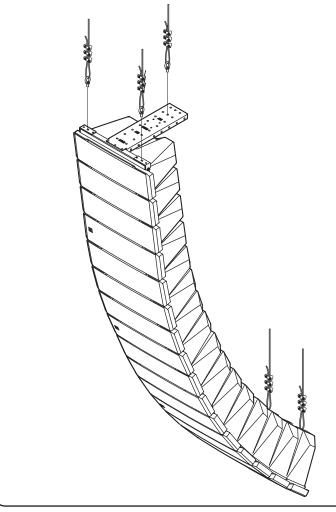
supplied with the HX-7B or HX-7W

speaker.

WARNING

Carefully note the following instructions in order to prevent accidental dropping of the speakers, which could potentially result in personal injury.

- Do not join together and suspend 5 or more HX-7B or HX-7W speaker units in a single cluster.
- Ensure that the installation location is structurally capable of supporting the weight of the speakers and their mounting brackets.
- · Use eyebolts, cables, chains and anchor shackles that can sufficiently support the weight of the speakers and their speaker mounting brackets.
- · When suspending speakers as shown at left, limit the number of joined speakers to 2 units or less.
- · When suspending 3 or 4 joined speakers, be sure to suspend the speakers from 5 or more points, distributing the load equally to each cable. In addition to the T-bracket and 3-point suspension system, also attach cables to 2 places at the lower portion of the joined speakers in order to pull up the speakers from their lower part.



6. DIRECT SPEAKER CEILING MOUNTING (only the T-bracket is used)

A single HX-7B or HX-7W Speaker System can be mounted to ceilings or beams by only using the T-bracket.

Note

Only one HX-7B or HX-7W speaker can be mounted. Two joined speakers cannot be mounted.

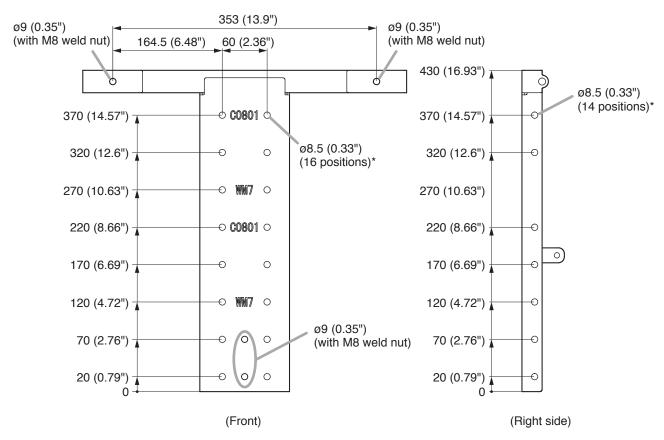
Step 1. Mount the T-bracket to the ceiling or beam using bolts, etc.



Ceiling or beam mounting bolts and nuts are not supplied. Use nuts and bolts that are appropriate for the ceiling's or beam's structure and composition. Failure to do so may cause the speaker to fall, resulting in personal injury.

[Mounting dimensions]

Unit: mm



Note: Left-side surface same.

^{*} These holes not fitted with M8 weld nuts.

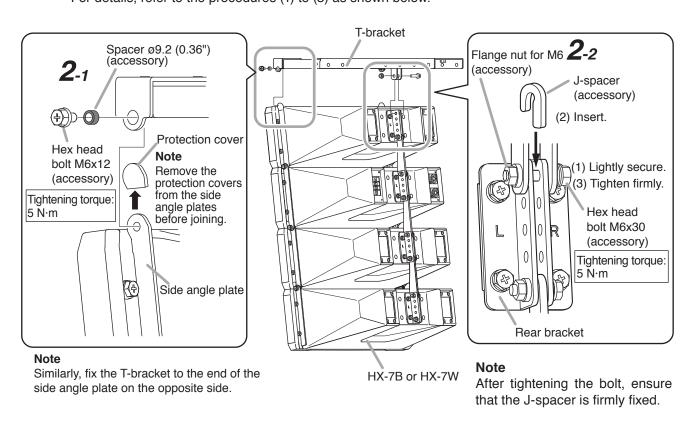
Step 2. Mount the speaker system to the T-bracket.

MARNING

- Owing to the speaker's size and weight, be sure that at least two persons are available to install the unit. Failure to do so could result in personal injury.
- Tighten the bolts securely, as instructed below. Failure to follow instructions precisely could result in a falling speaker and potential personal injury.
- · Ensure that all bolts are securely inserted as far as their threads go, then securely fasten each bolt with a nut.
- Tighten all the bolts with the designated tightening torque.
 For tightening, use a Phillips screwdriver, or open- or boxend wrench.

Mount the speaker system vertically, as shown in the figure. Fix the speaker to the T-bracket at all 3 indicated positions.

- **2-1.** Fix the T-bracket to both ends of the side angle plates of the speaker front. Use the supplied bolts (with spring and plain washers) and spacers.
- **2-2.** Fix the T-bracket to the speaker's rear bracket. Fix to the rear bracket's endmost hole. Use the supplied bolt (with spring and plain washers), J-spacer, and flange nut. For details, refer to the procedures (1) to (3) as shown below.



7. SPECIFICATIONS

Model No.	HY-VM7B	HY-VM7W
Finish	Steel plate, black, semi-gloss, paint	Steel plate, white, semi-gloss, paint
Weight	4.8 kg (10.58 lb)	
Product Composition	T-bracket 1, Mounting base 1, Angle bracket 1	

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

Accessories

Hex head bolt M6 x 12 with spring and plain washers	2
Hex head bolt M6 x 20 with spring and plain washers	4
Hex head bolt M6 x 30 with spring and plain washers	1
Hex head bolt M8 x 20 with spring and plain washers	4
Spacer ø9.2 (0.36")	2
J-spacer	1
Flange nut for M6	1

· Optional products

[HY-VM7B]

Speaker wall mounting bracket: HY-WM7B Ceiling mount bracket: HY-C0801

[HY-VM7W]

Speaker wall mounting bracket: HY-WM7W
Ceiling mount bracket: HY-C0801W



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