



Surface Mount Speaker
VXS8/VXS8W/VXS5/VXS5W
Owner's Manual

EN
ZE85530
English

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Do not open

- This device contains no user-serviceable parts. Do not open the device or attempt to disassemble the internal parts or modify them in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

Location

- Do not place the device in an unstable position where it might accidentally fall over.
- Do not place the device in a location where it may come into contact with corrosive gases or salt air. Doing so may result in malfunction.
- Do not place the device where it is always exposed to water. Doing so may result in malfunction.
- Do not place the device where it is exposed to oil. Doing so may result malfunction.
- Construction work should be carried out in accordance with construction-related law and always by a professional constructor. If the device installation requires construction work, make sure to observe the following precautions.
 - Choose mounting hardware and an installation location that can support the weight of the device.
 - Avoid locations that are exposed to constant vibration.
 - Use the required tools to install the device.
 - Inspect the device periodically.

Connections

- Before connecting the device to a power amplifier, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.
- Use only speaker cables for connecting speakers to the speaker connectors. Use of other types of cables may result in fire.

Maintenance

- Do not wipe the outer packaging with benzene, thinner, or synthetic detergent and do not use electrical contact cleaner. These may damage the outer packaging and dissolve the parts.

Handling caution

- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into holes of the grille. If this happens, have the device inspected by qualified Yamaha service personnel.
- Do not operate the device if the sound is distorting. Prolonged use in this condition could cause overheating and result in fire.
- When choosing a power amplifier for use with this device, make sure that the output power of the amplifier is lower than the power capacity of this device (see SPECIFICATIONS). Even if the output power of the amplifier is lower than the power capacity of this device (PGM), use of excessive input signals resulting in clipping may cause damage to the device. Malfunction or fire may occur especially when the following sounds or noises are generated:
 - feedback, when using a microphone
 - continuous and extreme volume sound from a musical instrument
 - extreme continuous distorted sound
 - noise caused by plugging/unplugging the cable while the amplifier is turned on

NOTICE

To avoid the possibility of malfunction/damage to the product or damage to other property, follow the notices below.

● Handling and Maintenance

- Do not place vinyl, plastic or rubber objects on the device, since this might discolor the panel.
- When cleaning the device, use a dry and soft cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.
- Condensation can occur in the device due to rapid, drastic changes in ambient temperature-when the device is moved from one location to another, or air conditioning is turned on or off, for example. Using the device while condensation is present can cause damage. If there is reason to believe that condensation might have occurred, leave the device for several hours until the condensation has completely dried out.
- Be sure to observe the amplifier's rated load impedance (see SPECIFICATIONS), particularly when connecting speakers in parallel. Connecting an impedance load outside the amplifier's rated range can damage the amplifier.
- When connecting the speakers with high impedance, be sure that the output total of each speaker does not exceed the rated output of the power amplifier.
- When using a high-impedance speaker connection, make sure the audio signal is passed through an 80 Hz or above high-pass filter before being input to the speakers. For VXS5/VXS5W, UL Listing is void without this connection.
- ABOUT THE PROTECTION CIRCUIT
This speaker system has an internal protection circuit that shuts off the speaker unit when an excessive input signal is applied. If the speaker unit emits no sound, reduce the volume level of the amplifier immediately.
The sound will return automatically in several seconds.
- Place the speaker on a flat and smooth surface.
- Do not place the speaker on the ground with the grille faced down.
- Do not touch the speaker driver unit.

● About This Manual

The illustrations as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your device.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the device.

UNPACKING

Unpack the contents and confirm that all the following items are included.

- Speaker × 2
- Bracket base × 2
- Mounting bracket × 2
- Bracket cover × 2
- Screw for attaching the mounting bracket × 4 (VXS8/VXS8W: M6, VXS5/VXS5W: M5)
- Stopper screw × 2 (M3, VXS8/VXS8W only)
- Bolt with hexagon hole × 2
- Safety wire × 2
- Terminal cover × 2
- Safety pin × 2
- Hexagon wrench × 1
- Owner's Manual (this manual)

* Screws/bolts to fasten the bracket base onto the wall/ceiling and speaker cables are not included.

SPECIFICATIONS

		VXS8/VXS8W	VXS5/VXS5W
Type		2-way, Bass-reflex	
Component	LF	8" (20 cm) Cone driver	5-1/4" (13 cm) Cone driver
	HF	1" (2.5 cm) Soft dome tweeter	3/4" (2 cm) Soft dome tweeter
Coverage angle (500 Hz – 4 kHz on average)		100° H × 100° V	120° H × 120° V
Nominal impedance		8 Ω	
Power rating (IEC, 100h) *1	NOISE	90 W	75 W
	PGM	180 W	150 W
	MAX	360 W	300 W
Sensitivity (1W, 1m) *2		91 dB SPL	89 dB SPL
Maximum SPL (Calculated, 1m) *3		117 dB SPL	114 dB SPL
Frequency range (-10 dB) *2, *4		51 Hz – 20 kHz	62 Hz – 20 kHz
Crossover frequency		2.8 kHz	3 kHz
Connector		Euroblock (4 pin) × 1 (input: +/-, loop-thru: +/-) Max. wire size 12 AWG (2.5 mm ²)	
Transformer taps	70 V	60 W, 30 W, 15 W, 7.5 W	30 W, 15 W, 7.5 W, 3.8 W
	100 V	60 W, 30 W, 15 W	30 W, 15 W, 7.5 W
Overload protection		Full-range power limiting to protect network and transducers	
Magnetically shielded		No	
Dust and water resistant *5		IP35	
Enclosure	Shape	Rectangle	
	Cabinet material	ABS	
	Baffle material	PC/ASA	
Grille material		Powder coated perforated aluminum (t=1 mm) Aperture ratio: 51%	
Finish		VXS8/VXS5: Black (Not painted, approximate value: Munsell N3) VXS8W/VXS5W: White (Not painted, approximate value: Munsell 9.3)	
Dimensions (Speaker only) (W × H × D in vertical cabinet orientation)		278 × 430 × 239 mm (10.9" × 16.9" × 9.4")	176 × 280 × 163 mm (6.9" × 11.0" × 6.4")
Net weight (Speaker only, 1 piece)		8.2 kg (18.1 lbs)	3.6 kg (7.9 lbs)
Packaging		Packaged in pair	

*1: Pink noise with 6 dB crest factor.

*2: Half-space (2π)

*3: Calculated based on power rating and sensitivity, exclusive of power compression.

*4: When connecting with low impedance

*5: IP34 when installing the speaker to the ceiling vertically.

Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

The dimensions are shown overleaf.

INSTALLING THE SPEAKERS

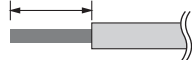
Install the speakers onto the wall/ceiling with the supplied brackets. Ensure that the wall/ceiling is sufficiently strong.

Illustrations in this manual are for the VXS5. The installation method is the same for other models.

Pre-installation (Preparation of the cable)

Use stranded wire for cables attached to the Euroblock connector. Strip their insulation as shown in the figure and connect them.

About 7 mm (0.3 in.)



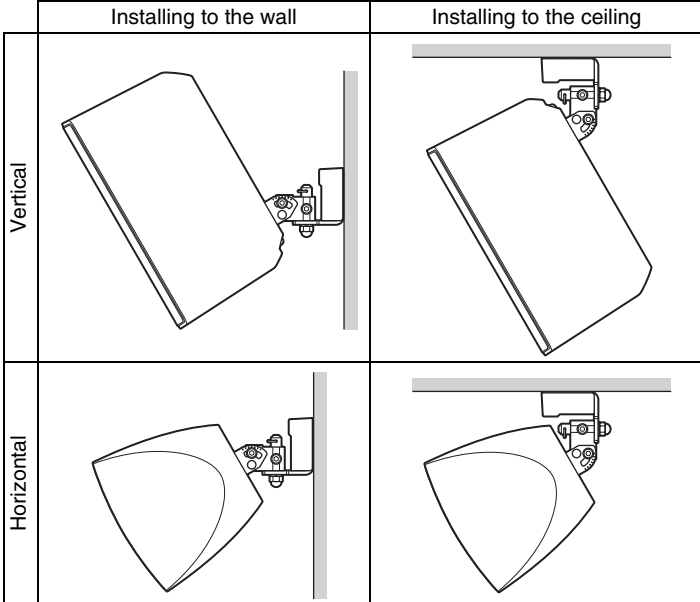
NOTE

Do not plate stranded wires by solder. Doing so will cause the wire to break.

An installed speaker is shown below. Install the bracket base and attach the mounting bracket as shown.

NOTE

- When installing the speaker to the ceiling with the grille parallel to the ground, install the speaker horizontally.
- When installing the speaker to the ceiling, be sure to install the bracket base with its shaft facing horizontally, and not inclined to the ground.
- Mounting bracket is made to not turn left or right when installing the speaker to the ceiling.

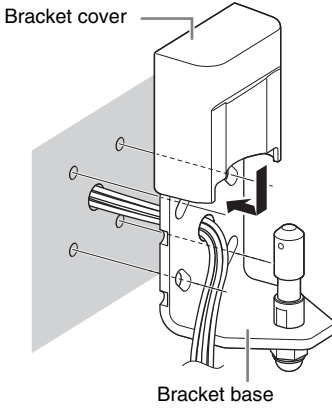


1 INSTALL THE BRACKET BASE ONTO THE WALL /CEILING

- Put the bracket base onto the wall/ceiling and mark the position for the screws/bolts and cables. The diameter of the screw/bolt holes at the four corners is M6, and speaker cables hole at the center is ø11 mm.
- Make holes through the wall/ceiling for the bolts and cables, as required, and feed the bolts and cables from the amplifier through the holes, as shown.
- Install the bracket base onto the wall/ceiling. Make sure to fasten four corners of the bracket base.
- Pass cables through the gap at the lower part of the bracket cover, and put the bracket cover on the bracket base.

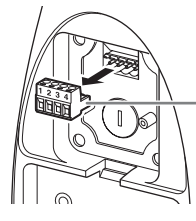
NOTE

If you want to adjust the slack of cables last, the bracket cover can be attached after step 5-6.



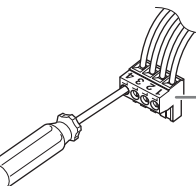
2 CONNECT THE WIRING TO THE CONNECTOR

- Remove the Euroblock connector.



Euroblock connector

- After loosening the terminal screws of the Euroblock connector with a flat-blade screwdriver, insert the cable into each terminal and tighten the screws. Make sure that cables cannot be pulled out.



Euroblock connector

Use a flat-blade screwdriver with a blade less than 3 mm (0.1 in.).

Less than 3 mm (0.1 in.)

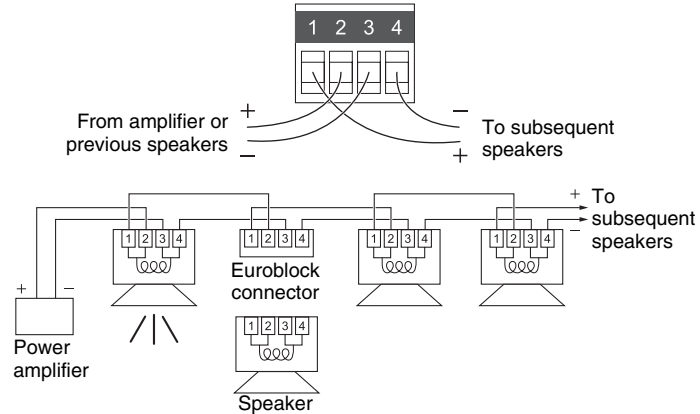
There are two acceptable wiring methods.

CAUTION

When connecting with low impedance, take note of the combined resistance.

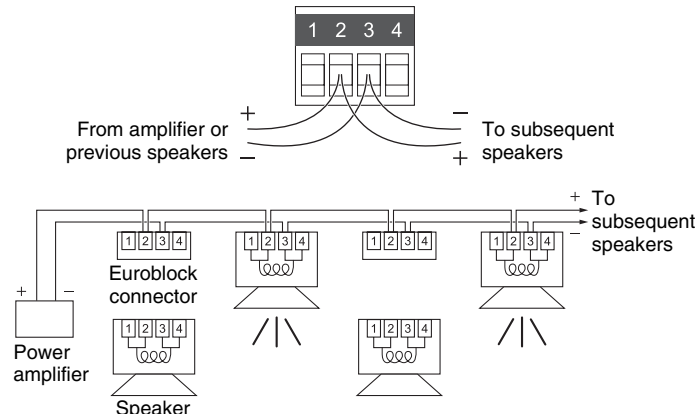
Using Loop-Through Terminals

For this method, cables are connected from terminals 1 and 4 to the subsequent speaker. If the Euroblock connector is disconnected from a speaker, all subsequent speakers will not work. This can be useful to identify which speaker has a problem.



Paralleling Input Terminals

For this method, cables are connected to terminals 2 and 3 of each speaker. Since the cables are connected via Euroblock connectors, subsequent speakers can work even if a problem occurs with a speaker.



3 SET THE LINE VOLTAGE/IMPEDANCE AND POWER

Select the line voltage/impedance (100V/70V/8Ω) and power tap for 100V/70V line distributed system, by rotating the tap selector switch on the rear side of the speaker with a flat-blade screwdriver.

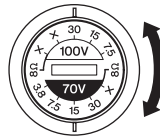


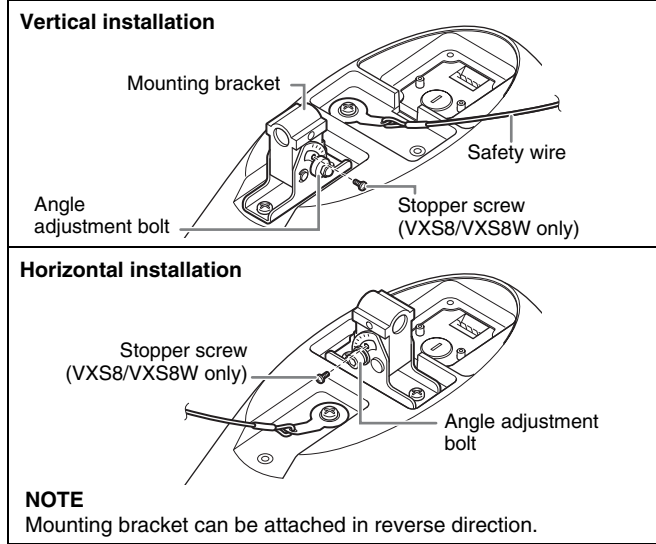
Illustration indicates the setting at 30 W for 100 V line and 15 W for 70 V line.

CAUTION

- The "X" position should not be selected. The 8Ω position should be selected for 8Ω audio systems only. If the setting is incorrect, it may cause malfunction of the speaker and amplifier.
- Make sure the amplifier is switched off before operating the tap selector switch.

4 ATTACH THE MOUNTING BRACKET AND SAFETY WIRE

- Attach the mounting bracket and safety wire to the speaker. Use the supplied screws to attach the mounting bracket. The way to attach the mounting bracket depends on the orientation of the speaker (vertical or horizontal).



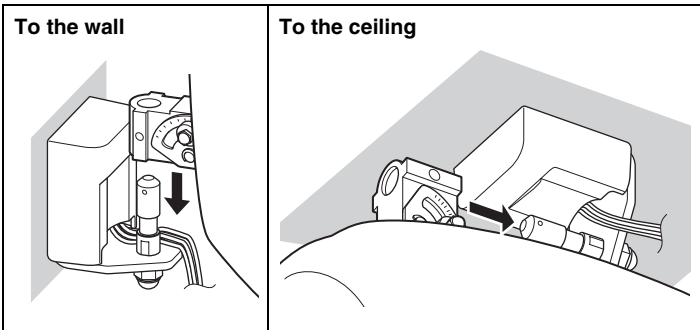
- Set the desired vertical angle of the speaker. Loosen the angle adjustment bolt with the supplied hexagon wrench, adjust the angle of the speaker, and tighten the angle adjustment bolt to fix the speaker (indication of torque: 8 N·m).

NOTE

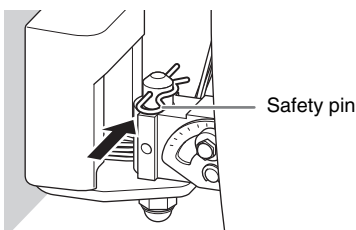
- Guide marked on the mounting bracket is every 10°.
- (VXS8/VXS8W only) When installing the speaker to the wall with a vertical angle of 30° or less, attach the supplied stopper screw.

5 INSTALL THE SPEAKER TO THE BRACKET BASE AND FIX THE CABLE

- Install the mounting bracket to the bracket base.



- Attach the safety pin. Be sure to attach the safety pin to prevent the mounting bracket from falling.

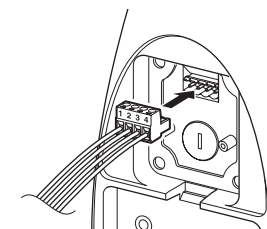


Safety pin

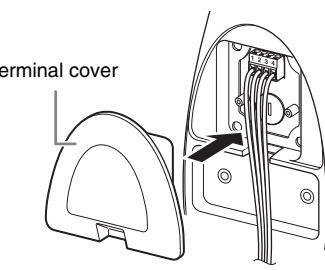
NOTE

The safety pin can be attached from either side of the mounting bracket depending on the angle of the speaker.

- Plug the Euroblock connector into the socket in the speaker.

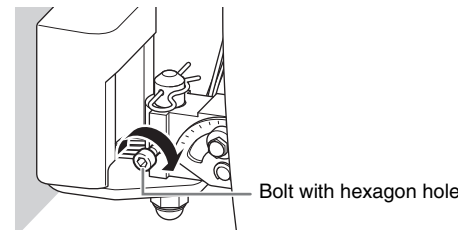


- Attach the terminal cover.



- (If installing the speaker to the wall) turn the speaker horizontally to set the angle.

- Make sure the mounting bracket is seated against the bracket base, then tighten the supplied bolt (indication of torque: 6.5 N·m).



Bolt with hexagon hole

NOTE

- When installing the speaker to the ceiling in particular, make sure the mounting bracket is seated against the bracket base.
- The bolt with hexagon hole can be attached from either side of the mounting bracket (left or right) depending on the angle of the speaker.

- Install the safety wire to the wall/ceiling.

NOTE

- Make sure to take measures to prevent the speaker from falling down in the event of an installation failure.
- When installing the safety wire to the wall, install it higher than the wire's attachment point on the speaker, with as little slack as possible.
- If the safety wire is too short, prepare another wire appropriate for the speaker weight and installation conditions. If the wire is too long, should the speaker fall, the wire may snap as a result of too much strain.

Important Notice: Guarantee Information for customers in European Economic Area (EEA) and Switzerland

Important Notice: Guarantee Information for customers in EEA* and Switzerland For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country. * EEA: European Economic Area	English
Wichtiger Hinweis: Garantie-Information für Kunden in der EWR* und der Schweiz Für nähere Garantie-Information über dieses Produkt von Yamaha, sowie über den Pan-EWR*- und Schweizer Garantieservice, besuchen Sie bitte entweder die folgend angegebene Internetadresse (eine druckfähige Version befindet sich auch auf unserer Webseite), oder wenden Sie sich an den für Ihr Land zuständigen Yamaha-Vertrieb. * EWR: Europäischer Wirtschaftsraum	Deutsch
Remarque importante: informations de garantie pour les clients de l'EEE et la Suisse Pour des informations plus détaillées sur la garantie de ce produit Yamaha et sur le service de garantie applicable dans l'ensemble de l'EEE ainsi qu'en Suisse, consultez notre site Web à l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement Yamaha dans votre pays de résidence. * EEE : Espace Economique Européen	Français
Belangrijke mededeling: Garantie-informatie voor klanten in de EER* en Zwitserland Voor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vindt een afdrukbaar bestand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europese Economische Ruimte	Nederlands
Aviso importante: información sobre la garantía para los clientes del EEE* y Suiza Para una información detallada sobre este producto Yamaha y sobre el soporte de garantía en la zona EEE* y Suiza, visite la dirección web que se incluye más abajo (la version del archivo para imprimir esta disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país. * EEE: Espacio Económico Europeo	Español
Avviso importante: informazioni sulla garanzia per i clienti residenti nell'EEA* e in Svizzera Per informazioni dettagliate sulla garanzia relativa a questo prodotto Yamaha e l'assistenza in garanzia nei paesi EEA* e in Svizzera, potete consultare il sito Web all'indirizzo riportato di seguito (è disponibile il file in formato stampabile) oppure contattare l'ufficio di rappresentanza locale della Yamaha. * EEA: Area Economica Europea	Italiano
Aviso importante: informações sobre as garantias para clientes da AEE* e da Suíça Para obter uma informação pormenorizada sobre este produto da Yamaha e sobre o serviço de garantia na AEE* e na Suíça, visite o site a seguir (o arquivo para impressão está disponível no nosso site) ou entre em contato com o escritório de representação da Yamaha no seu país. * AEE: Área Económica Europeia	Português
Σημαντική σημείωση: Πληροφορίες εγγύησης για τους πελάτες στον ΕΟΧ* και Ελλάδα Για λεπτομερείς πληροφορίες εγγύησης σχετικά με το παρόν προϊόν της Yamaha και την κάλυψη εγγύησης σε όλες τις χώρες του ΕΟΧ και την Ελλάδα, επισκεφτείτε την παρακάτω ιστοσελίδα (Εκτυπώσιμη μορφή είναι διαθέσιμη στην ιστοσελίδα μας) ή απευθυνθείτε στην αντιπροσωπεία της Yamaha στη χώρα σας. * ΕΟΧ: Ευρωπαϊκός Οικονομικός Χώρος	Ελληνικά
Viktigt: Garantinformation för kunder i EES-området* och Schweiz För detaljerad information om denna Yamaha-produkt samt garantiservice i hela EES-området* och Schweiz kan du antingen besöka nedanstående webbadress (en utskriftsvänlig fil finns på webbplatsen) eller kontakta Yamahas officiella representant i ditt land. * EES: Europeiska Ekonomiska Samarbetsområdet	Svenska
Viktig merknad: Garantinformasjon for kunder i EØS* og Sveits Detaljeret garantinformasjon om dette Yamaha-produktet og garantiservice for hele EØS-området* og Sveits kan fås enten ved å besøke nettstedren nedenfor (utskriftsversjon finnes på våre nettsider) eller kontakte kontakke Yamaha-kontoret i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet	Norsk
Vigtig oplysning: Garantoplysninger til kunder i EØO* og Schweiz De kan finde detaljerede garantiplysninger om dette Yamaha-produkt og den fælles garantiserviceordning for EØO* (og Schweiz) ved at besøge det websted, der er angivet nedenfor (der findes en fil, som kan udskrives, på vores websted), eller ved at kontakte Yamahas nationale repræsentationskontor i det land, hvor De bor. * EØO: Det Europæiske Økonomiske Område	Dansk
Tärkeä ilmoitus: Taku tiedot Euroopan talousalueen (ETA)* ja Sveitsin asiakkaille Tämän Yamaha-tuotteen sekä ETA-alueen ja Sveitsin takuuta koskevat yksityiskohtaiset tiedot saatte alla olevasta nettiosoitteesta. (Tulostettava tiedosto saatavissa sivustollamme.) Voitte myös ottaa yhteyttä paikalliseen Yamaha-edustajaan. *ETA: Euroopan talousalue	Suomi
Ważne: Warunki gwarancynje obowiązujące w EOG* i Szwajcarii Aby dowiedzieć się więcej na temat warunków gwarancyjnych tego produktu firmy Yamaha i serwisu gwarancyjnego w całym EOG* i Szwajcarii, należy odwiedzić wskazaną poniżej stronę internetową (Plik gotowy do wydruku znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju. * EOG — Europejski Obszar Gospodarczy	Polski
Dôležité oznámení: Záruční informace pro zákazníky v EHS* a ve Švýcarsku Podrobné záruční informace o tomto produktu Yamaha a záručním servisu v celém EHS* a ve Švýcarsku naleznete na níže uvedeném webovém adresě (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zastoupení firmy Yamahi ve své zemi. * EHS: Evropský hospodářský prostor	Česky
Fontos figyelemztetés: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára A jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra kiterjedő garanciális szolgáltatás tekintetében keresse fel webhelyünket az alábbi címen (a webhelyen nyomtatható fájl is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviselői irodával. * EGT: Európai Gazdasági Térség	Magyar
Oluline märkus: Garantiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi klientidele Täpsema teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiiteeninduse kohta, külastage palun veebisaiti alljärgneval aadressil (meie saidil on saadaval printitav fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond	Eesti keel
Svarigs paziņojums: garantijas informācija klientiem EEZ* un Šveicē Lai saņemtu detalizētu garantijas informāciju par šo Yamaha produktu, kā arī garantijas apkalpošanu EEZ* un Šveicē, lūdz, apmeklējiet zemāk norādīto tīmekļa vietnes adresi (tīmekļa vietnē ir pieejams drukājams fails) vai sazinieties ar jūsu valsti apkalpojošo Yamaha pārstāvniecību. * EEZ: Eiropas Ekonomikas zona	Latviešu
Dėmesio: informacija dėl garantijos pirkėjams EEE* ir Šveicarijoje Jei reikia išsamios informacijos apie šį „Yamaha“ produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijoje, apsilankykite mūsų svetainėje toliau nurodytu adresu (svetainėje yra spausdinlinas failas) arba kreipkitės į „Yamaha“ atstovybę savo šalyje. *EEE — Europos ekonominė erdvė	Lietuvių kalba
Dôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku Podrobné informácie o záruke týkajúce sa tohto produktu od spoločnosti Yamaha a garančnom servise v EHP* a Švajčiarsku nájdete na webovej stránke uvedenej nižšie (na našej webovej stránke je k dispozícii súbor na tlač) alebo sa obráťte na zástupcu spoločnosti Yamaha vo svojej krajine. * EHP: Európsky hospodársky priestor	Slovenščina
Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici Za podrobnejše informacije o tem Yamahinem izdelku ter garancijskem servisu v celotnem EGP in Švici, obiščite spletno mesto, ki je navedeno spodaj (natisljiva datoteka je na voljo na našem spletnem mestu), ali se obrnite na Yamahinega predstavnika v svoji državi. * EGP: Evropski gospodarski prostor	Slovenščina
Важно съобщение: Информация за гаранцията за клиенти в ЕИП* и Швейцария За подробна информация за гаранцията за този продукт на Yamaha и гаранционното обслужване в паневропейската зона на ЕИП* и Швейцария или посетете посочения по-долу уеб сайт (на нашия уеб сайт има файл за печат), или се свържете с представителния офис на Yamaha във вашата страна. * ЕИП: Европейско икономическо пространство	Български език
Notificare importantă: Informații despre garanție pentru clienții din SEE* și Elveția Pentru informații detaliate privind acest produs Yamaha și serviciul de garanție Pan-SEE* și Elveția, vizitați site-ul la adresa de mai jos (fișierul imprimabil este disponibil pe site-ul nostru) sau contactați biroul reprezentanței Yamaha din țara dumneavoastră. * SEE: Spațiul Economic European	Limba română

http://europe.yamaha.com/warranty/

URL_4

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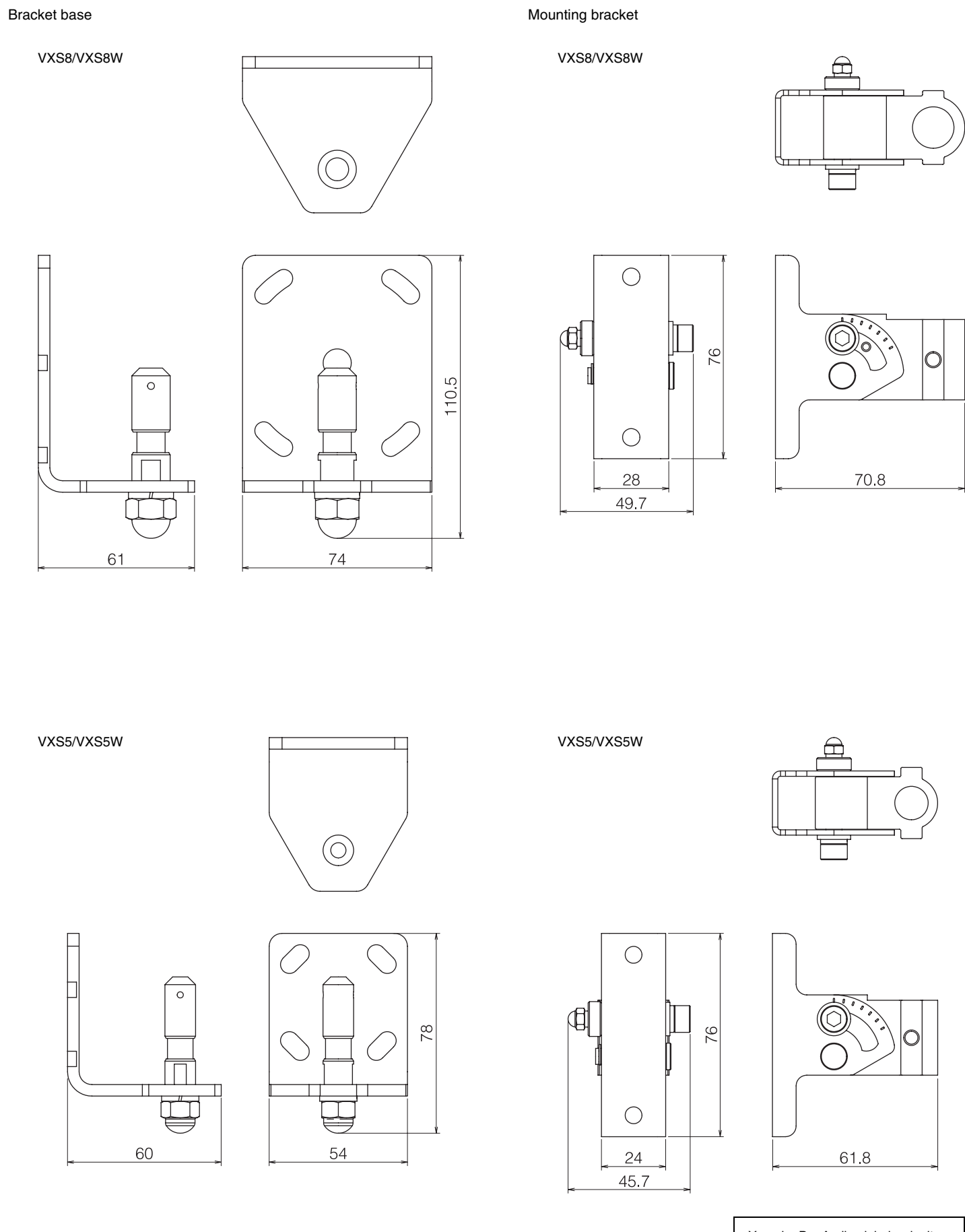
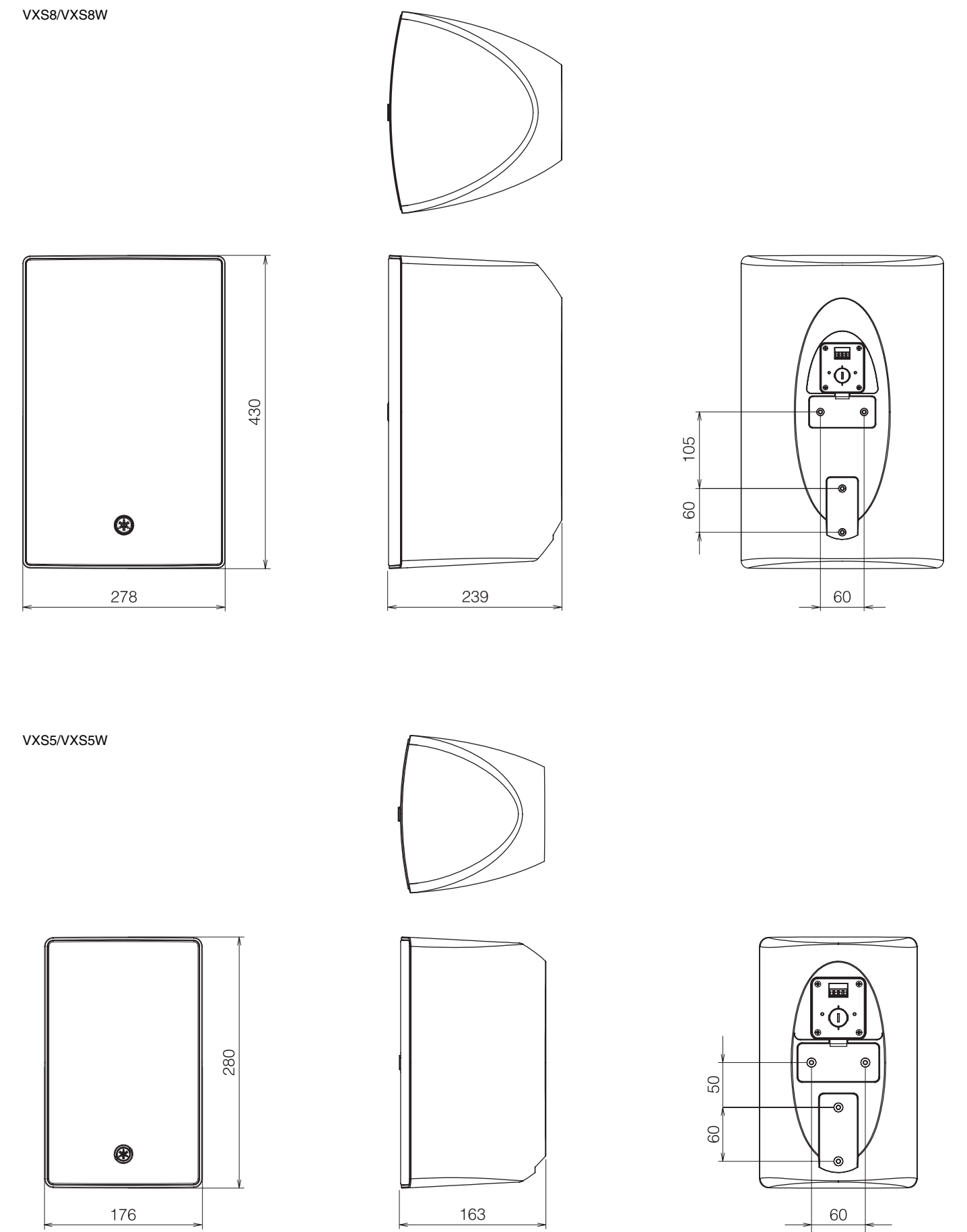
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