

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.

Water warning

• Do not expose the device to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the device, have the device 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.
- Construction work should be carried out in accordance with construction-related law and always by a professional contractor. 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 jacks. Use of other types of cables may result in fire.

Maintenance

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

Handling caution

- Do not insert your fingers or hands in openings on the device.
- 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 total rated input capacity of the speakers does not exceed the output power of the 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.
- **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.
- Do not swing the speaker by its carrying band.
- Do not place the speaker face down with the grille attached, as deformation of the grille may result.
- When placing the speaker face down, always place it on a flat and smooth surface.
- 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 x 2
- O-ring x 2
- Tile Rail x 4
- Screw x 4
- Cutout Template x 1
- Owner's Manual (this manual)
- * Speaker cable and safety wire are not included.

SPECIFICATIONS

	VXC8/VXC8W	VXC6/VXC6W
Type	2-way, Coaxial type, with Back Can, Acoustic Suspension	
Component	LF 8" (20 cm) cone driver HF 1" (2.5 cm) soft dome tweeter	6-1/2" (16 cm) cone driver 4-1/2" (11.5 cm) soft dome tweeter
Coverage angle (500 Hz - 4 kHz on average)	100° conical	110° conical
Nominal impedance		8 Ω
Power rating	NOISE 90 W PGM 180 W MAX 360 W	75 W 150 W 300 W
Sensitivity (1W, 1m) *1	90 dB SPL	86 dB SPL
Maximum SPL (Calculated, 1m) *2	116 dB SPL	111 dB SPL
Frequency range (-10 dB) *1	55 Hz - 20 kHz	56 Hz - 20 kHz
Crossover frequency (12 dB/Oct)	3 kHz	3.2 kHz
Connector		Euroblock (4 pin) x 1 (input: +/-, loop-thru: +/-) Max. wire size 12 AWG (2.5 mm ²)
Transformer taps	70 V 100 V	60 W, 30 W, 15 W, 7.5 W 60 W, 30 W, 15 W
Overload protection		Full-range power limiting to protect network and transducers
Magnetically shielded		No
Enclosure	Shape Back Can material Baffle material	Back Can Steel 1.2 mm, Black HIPS
Grille	Material Finish	Powder coated perforated steel (t=0.6 mm) Trim Ring: ABS Aperture ratio: 51% VXC8/VXC6 : Black painting (approximate value: Munsell N3) VXC8W/VXC6W : White painting (approximate value: Munsell 9.3)
Dimensions (Speaker only)	Ø325 × 258.5D mm (Ø12-13/16" × 10-3/16"D)	Ø286 × 204D mm (Ø11-1/4" × 8-1/16"D)
Net weight (Speaker only, 1 piece)	6.6 kg (14.6 lbs)	4.4 kg (9.7 lbs)
Cutout size	Ø285 mm (Ø11-1/4")	Ø247 mm (Ø9-3/4")
Required ceiling board thickness		5 mm - 35 mm *3
Conduit tube		up to 1/2"
Packaging		Packaged in pair

*1: Half-space (2n)

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

*3: 30 mm or less for the Anti-Drop Tab.

The contents of this manual apply to the latest specifications as of the printing date. Since Yamaha makes continuous improvements to the product, this manual may not apply to the specifications of your particular product. To obtain the latest manual, access the Yamaha website then download the manual file. Since specifications, equipment or separately sold accessories 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 ceiling with the supplied hardware. Ensure that the strength of the ceiling rail is sufficiently strong. Illustrations in this manual are for the VXC6. 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.

1 CUT OUT A HOLE IN THE CEILING

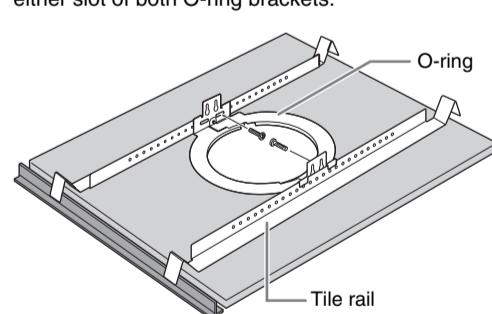
1 Put the supplied cutout template to the ceiling and draw a circle by tracing it. Make sure to use the cutout template so that hole is the correct diameter.

NOTE
If you use a circular cutter, set the diameter with the cutout template.

2 Cut the hole by tracing the circle. Be careful to prevent chips or powder entering your eyes while cutting the hole.

2 INSTALL THE TILE RAILS AND O-RING

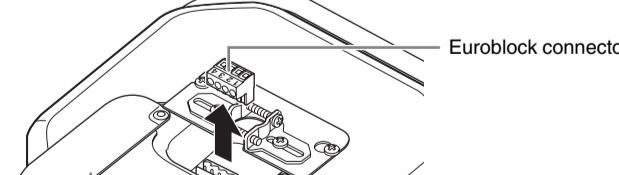
1 Insert the two tile rails through the cut hole and place them on the ceiling surface within your reach. Be sure that each tile rail is oriented as shown below.



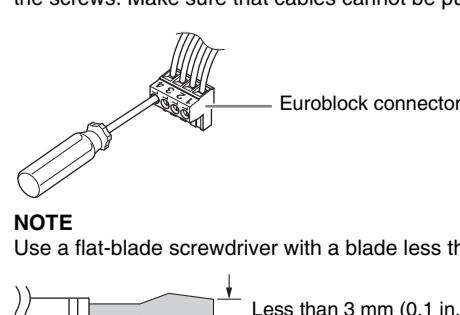
3 CONNECT THE WIRING TO THE CONNECTOR AND FIX THE CABLE

1 Pull the wiring from the amplifier through the cut hole.

2 Loosen the screw at the right of the terminal cover to open the terminal cover and remove the Euroblock connector.



3 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.



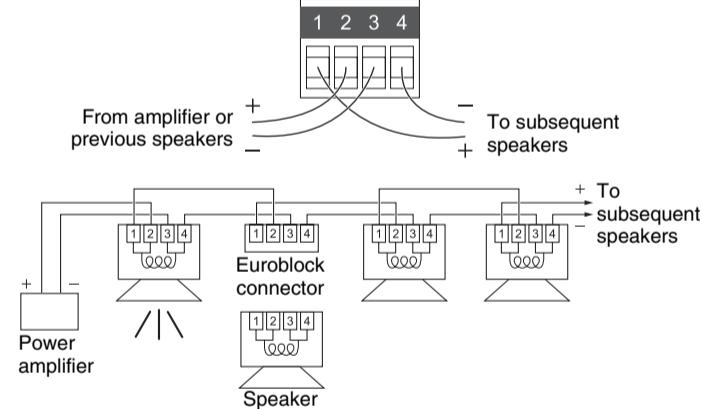
There are two acceptable wiring methods.

CAUTION

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

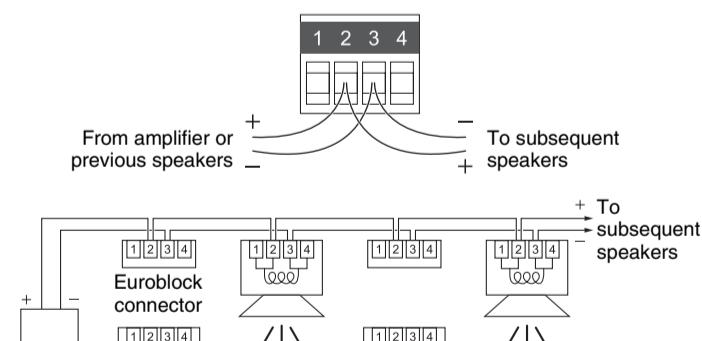
Using Loop-Through Terminals

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.

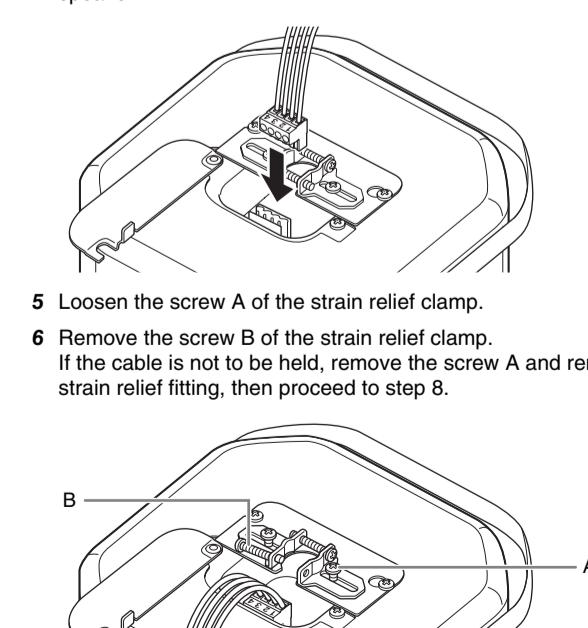


Paralleling Input Terminals

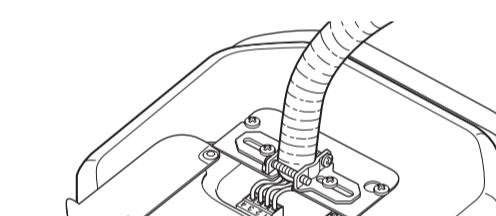
For this method, cables are connected to terminals 2 and 3 of each speaker. Since the cables are connected via Euroblock connectors, subsequent speakers can work even if a problem occurs with a speaker.



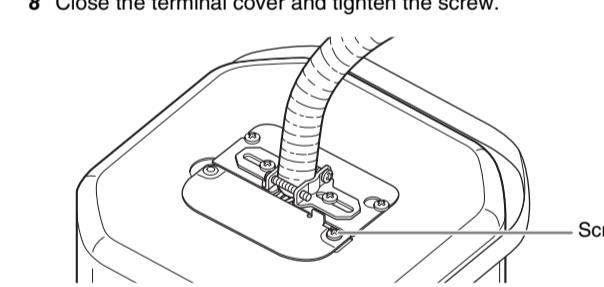
4 Plug the connected Euroblock connector into the socket in the speaker.



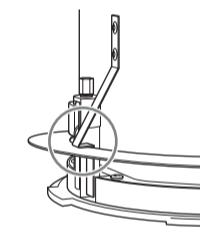
7 Hold the cable in the strain relief clamp, then tighten screws A and B.



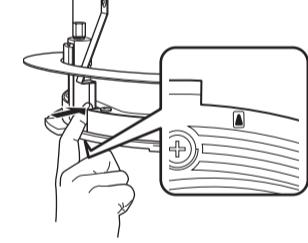
8 Close the terminal cover and tighten the screw.



When all the Anti-Drop Tabs cross over the O-ring, the speaker is held temporarily.

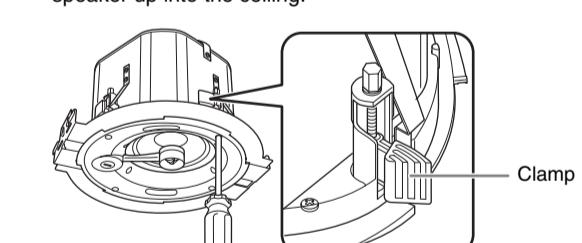


To release the speaker from the O-ring, press the Anti-Drop Tabs. These are located above the ▲ mark near the edge of the baffle's face.



3 Turn the screwdriver a half turn counterclockwise to loosen the attachment screw (located beside the ▲ mark). This makes the clamp easier to align in the channel.

4 Turn the screwdriver clockwise to tighten the attachment screw. The first turn of the attachment screw aligns the clamp with the channel. Further turns move the clamp down the channel to pull the speaker up into the ceiling.

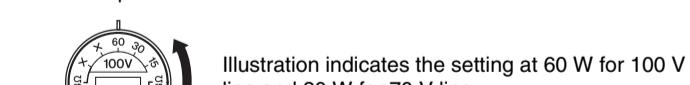


CAUTION
• Do not over-tighten the attachment screw. Otherwise, the attachment screw and clamp will break.

• Do not turn any screws other than attachment screw (located beside the ▲ mark). Otherwise, the speaker may fall or malfunction.

5 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 front side of the speaker with a flat-blade screwdriver.

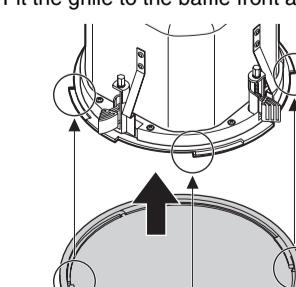


CAUTION
• The "X" position should not be selected. The 8Ω position should be selected for 8Ω audio systems only. If the setting is incorrect, it may cause malfunction of the speaker and amplifier.

• Make sure the amplifier is switched off before operating the tap selector switch.

6 ATTACH THE GRILLE

Fit the grille to the baffle front and turn it clockwise.



CAUTION
The grille may fall down if it is attached inadequately. Attach it firmly.

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

Deutsch

Français

Nederlands

Español

Italiano

Português

Dansk

Norsk

Cesky

Polski

Suomi

Latviešu

Magyar

Eesti keel

Čeština

Lietuviai kalba

Slovenčina

Romană

Bulgarski език

Limba română

Otuline mürkus: Garantiteave Europa Majanduspirkonna (EMP)* ja Šveitsi klientidele

Täpselt teabe saamiseks selle Yamaha tööle garantiitöötaja eest tulevad ümbermõõdud.

Swärvigs påpajomus: garantijas informācija klientiem EEZ* un Šveicē

Jei reikia išsamios informacijos apie šį "Yamaha" produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijoje, apsilankykite mūsu svetainėje toliau nurodytu adresu (svetainėje vieninteliuose drukojamais failais) arba kontaktuokite Yamaha pārstāvniecību.

Dělalci oznámení: Záruční informace pro zákazníky v EHS* a ve Švýcarsku

Zároveň je uvedena webová adresa (soubor k tisku je dostupný na našich webových stránkách) nebo se mužete obrátit na zástupce firmy Yamaha ve své zemi. * EHS: Det europeiske økonomiske samarbeidsområdet

Vigtig oplysning: Garantiopllysninger til kunder i EØO* og Schweiz

Detaljerede informasjon om dette Yamaha-produktet og garantiservice for hele EØS-området* og Sveits kan fås enten ved å besøke netttadressen nedenfor (utskriftsversjon finnes på våre nettsider) eller kontakte Yamahas kontor i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet

Viktig merknad: Garantiinformasjon for kunder i EØS* og Sveits

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Tärkeä ilmoitus: Takuutiedot Euroopan talousalueen (ETA) ja Sveitsin asiakkaille

Tämän Yamaha-tuotteen sekä ETA-alueen ja Sveitsi takuuota koskevat yksityiskohtaiset tiedot saatetaan olevasta nettosoitteesta. (Tulostettava tiedostoa saatavissa sivustollamme.)

Važne: Warunki gwarancyjne 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 ponizej stronę internetową (Plik gołowy do wydrukowania znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju. *EOG — Europejski Obszar Gospodarczy

Důležité oznámení: Záruční informace pro zákazníky v EHS* a ve Švýcarsku

Podrobnejší záruční informace o tomto produkту Yamaha a záručním servisu v celém EHS* a ve Švýcarsku naleznete na níže uvedené webové adrese (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zástupce firmy Yamaha ve své zemi. * EHS: Det europeiske økonomiske området

Fontos figyelmezettség: Garancia-információk az EGT* területén és Svájcban elő vásárlók számára

Ajánlott Yamaha termékek vonatkozó részletes garancia-információk, valamint az EGT*-n és Svájcra kiterjedő garanciális szolgáltatás tekintetében keresse fel webhelyünket az alábbi címen (a webhelyen nyomtatottat járhat) vagy pedig lépjen kapcsolatba az országában működő Yamaha képviselettel Irodával. *EGT: Európai Gazdasági Térseg

Oluline mürkus: Garantiteave Europa Majanduspirkonna (EMP)* ja Šveitsi klientidele

Täpselt teabe saamiseks selle Yamaha tööle garantiitöötaja eest tulevad ümbermõõdud.

Swärvigs påpajomus: garantijas informācija klientiem EEZ* un Šveicē

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Dělalci oznámení: informace o záruce pro zákazníky v EHP* a Švýcarsku

Zároveň je uvedena webová adresa (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zástupce firmy Yamaha ve své zemi. * EHP: Det europeiske økonomiske prostor

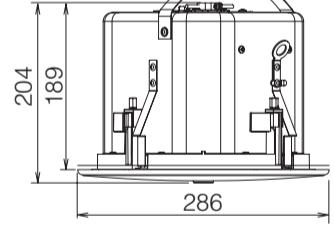
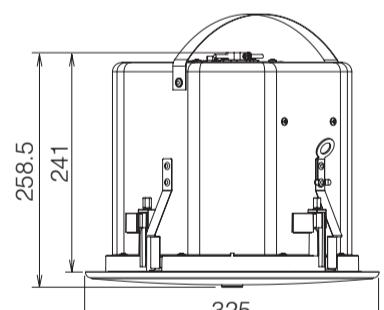
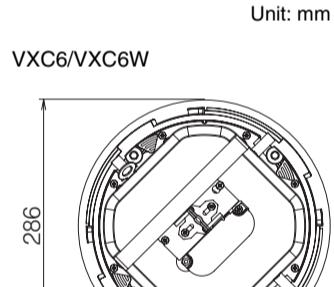
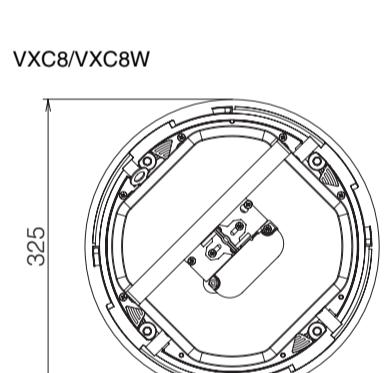
Notificare importante: Informații despre garanție pentru clientii din SEE* și Elveția

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

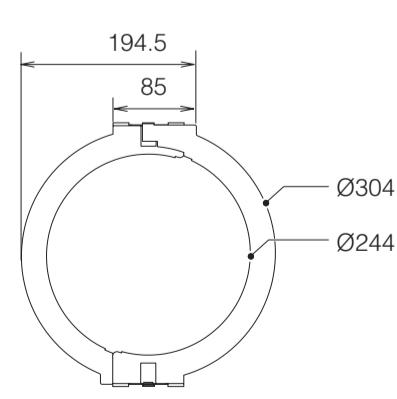
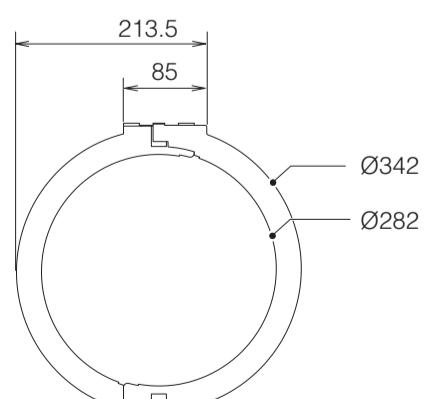
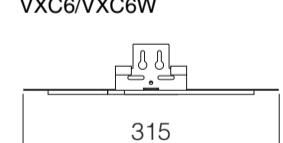
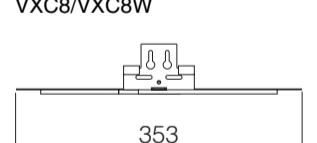
<http://europe.yamaha.com/warranty/>

URL_4

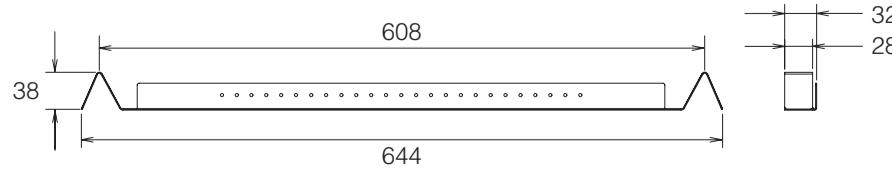
DIMENSIONS



O-ring



Tile Rail



For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

Pour plus de détails sur les produits, veuillez-vous adresser à Yamaha ou au distributeur le plus proche de vous figurant dans la liste suivante.

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Yamaha Vertragshändlern in den jeweiligen Bestimmungslandern erhältlich.

Para detalles sobre productos, contacte su tienda Yamaha más cercana o el distribuidor autorizado que se lista debajo.

NORTH AMERICA

CANADA

Yamaha Canada Music Ltd.
135 Milner Avenue, Toronto, Ontario,
M1S 3R1, Canada
Tel: 416-298-1311

U.S.A.

Yamaha Corporation of America
6600 Orangethrone Avenue, Buena Park, CA 90620,
U.S.A.
Tel: 714-522-9011

CENTRAL & SOUTH AMERICA

MEXICO

Yamaha de México, S.A. de C.V.
Av. Insurgentes Sur 1647 Piso 9, Col. San José
Insurgentes, Delegación Benito Juárez, México,
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Tel: 55-5804-0600

BRAZIL

Yamaha Musical do Brasil Ltda.
Rua Fidencio Ramos, 302 - Cj 52 e 54 – Torre B – Vila
Olimpia – CEP 04551-010 – São Paulo/SP, BRAZIL
Tel: 011-3704-1377

ARGENTINA

Yamaha Music Latin America, S.A.,
Sucursal Argentina
Olga Cossettini 1553, Piso 4 Norte,
Madero Este-C1107CEK
Buenos Aires, Argentina
Tel: 011-4119-7000

VENEZUELA

Yamaha Music Latin America, S.A.,
Sucursal Venezuela
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Ofic. 0401- Manzanares-Baruta
Caracas Venezuela
Tel: 58-212-943-1877

PANAMA AND OTHER LATIN AMERICAN COUNTRIES

Yamaha Music Latin America, S.A.
Torre Banco General, Piso No.7, Marbella,
Calle 47 a Aquilino de la Guardia,
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EUROPE

THE UNITED KINGDOM/IRELAND

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Tel: 01908-566700

SWITZERLAND/LIECHTENSTEIN

Yamaha Music Europe GmbH
Branch Switzerland in Zürich
Seefeldstrasse 94, 8008 Zürich, Switzerland
Tel: 044-387-8080

AUSTRIA/BULGARIA

Yamaha Music Europe GmbH Branch Austria
Schleiergasse 20, A-1100 Wien, Austria
Tel: 01-60203900

CZECH REPUBLIC/HUNGARY/ROMANIA/SLOVAKIA/SLOVENIA

Yamaha Music Europe GmbH
Branch Austria (Central Eastern Europe Office)
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MIDDLE EAST

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Merkez Almanya Türkiye İstanbul Şubesi

Maslak Meydan Sokak No:5 Spring Gz Plaza
Bağımızı Böl. No:3, 34398 Şişli İstanbul
Tel: 0212-999-8010

CYPRUS

Yamaha Music Europe GmbH
Siemensstraße 22-34, 25462 Rellingen, Germany
Tel: 04101-3030

OTHER COUNTRIES

Yamaha Music Gulf FZE
Office JAFZA 16-512, P.O.Box 17328,
Jebel Ali - Dubai, UAE
Tel: +971-4881-5868

HEAD OFFICE

Yamaha Corporation, Audio Products Sales and Marketing Division
Nakazawa-cho 10-1, Naka-ku, Hamamatsu, Japan 430-8650

Information for Users on Collection and Disposal of Old Equipment

This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[For business users in the European Union]

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

This symbol is only valid in the European Union. If you wish to discard these items, please contact your local authority or dealer and ask for the correct method of disposal.

Verbraucherinformation zur Sammlung und Entsorgung alter Elektrogeräte

Befindet sich dieses Symbol auf den Produkten, der Verpackung und/oder beiliegenden Unterlagen, so sollten benutzte Elektrogeräte nicht mit dem normalen Haushaltsabfall entsorgt werden.

In Übereinstimmung mit ihren nationalen Bestimmungen und den Richtlinien 2002/96/EG bringen Sie alte Geräte bitte zur fachgerechten Entsorgung. Wiederaufbereitung und Wiederverwendung zu den entsprechenden Sammelstellen.

Durch die fachgerechte Entsorgung der Elektrogeräte helfen Sie, wertvolle Ressourcen zu schützen, und verhindern mögliche negative Auswirkungen auf die menschliche Gesundheit und die Umwelt, die andernfalls durch unsachgerechte Müllentsorgung auftreten könnten.

Für weitere Informationen zum Samm