



marantz[®] 7 Channel Power Amplifier **MM8077**

Owner's Manual

SAFETY PRECAUTIONS



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



Hot surface mark

CAUTION:
HOT SURFACE. DO NOT TOUCH.

The top surface over the internal heat sink may become hot when operating this product continuously. Do not touch hot areas, especially around the "Hot surface mark" and the top panel.

PRECAUTION:
SURFACE CHAUDE. NE PAS TOUCHER.

La surface supérieure du dissipateur de chaleur peut devenir chaude si vous utilisez ce produit en continu. Ne touchez pas les zones chaudes, tout particulièrement vers l'inscription "Hot surface mark" et le panneau supérieur.

PRECAUCIÓN:
SUPERFICIE CALIENTE. NO TOCAR.

La superficie superior sobre el disipador de calor interno podría llegar a calentarse al operar este producto de forma continua. No toque las áreas calientes, especialmente las situadas alrededor de la "Hot surface mark" y del panel superior.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.



CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale.

La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

FCC INFORMATION (For US customers)

1. PRODUCT

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by marantz may void your authority, granted by the FCC, to use the product.

3. NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

For Canadian customers:

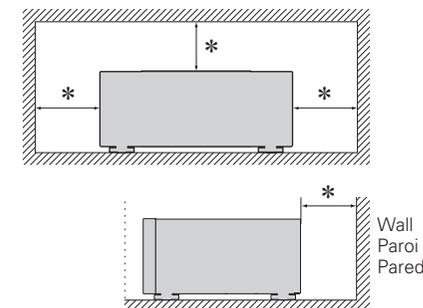
This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

NOTES ON USE / OBSERVATIONS RELATIVES A L'UTILISATION / NOTAS SOBRE EL USO

WARNINGS	AVERTISSEMENTS	ADVERTENCIAS
<ul style="list-style-type: none"> • Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. • Handle the power cord carefully. Hold the plug when unplugging the cord. • Keep the unit free from moisture, water, and dust. • Unplug the power cord when not using the unit for long periods of time. • Do not obstruct the ventilation holes. • Do not let foreign objects into the unit. • Do not let insecticides, benzene, and thinner come in contact with the unit. • Never disassemble or modify the unit in any way. • Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains. • Naked flame sources such as lighted candles should not be placed on the unit. • Observe and follow local regulations regarding battery disposal. • Do not expose the unit to dripping or splashing fluids. • Do not place objects filled with liquids, such as vases, on the unit. • Do not handle the mains cord with wet hands. • When the switch is in the OFF position, the equipment is not completely switched off from MAINS. • The equipment shall be installed near the power supply so that the power supply is easily accessible. 	<ul style="list-style-type: none"> • Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Ne pas obstruer les trous d'aération. • Ne pas laisser des objets étrangers dans l'appareil. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Ne pas recouvrir les orifices de ventilation avec des objets tels que des journaux, nappes ou rideaux. Cela entraverait la ventilation. • Ne jamais placer de flamme nue sur l'appareil, notamment des bougies allumées. • Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. • L'appareil ne doit pas être exposé à l'eau ou à l'humidité. • Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil. • Ne pas manipuler le cordon d'alimentation avec les mains mouillées. • Lorsque l'interrupteur est sur la position OFF, l'appareil n'est pas complètement déconnecté du SECTEUR (MAINS). • L'appareil sera installé près de la source d'alimentation, de sorte que cette dernière soit facilement accessible. 	<ul style="list-style-type: none"> • Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. • Mantenga el equipo libre de humedad, agua y polvo. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. • No obstruya los orificios de ventilación. • No deje objetos extraños dentro del equipo. • No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. • Nunca desarme o modifique el equipo de ninguna manera. • La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles o cortinas. • No deberán colocarse sobre el aparato fuentes inflamables sin protección, como velas encendidas. • A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. • No exponer el aparato al goteo o salpicaduras cuando se utilice. • No colocar sobre el aparato objetos llenos de líquido, como jarros. • No maneje el cable de alimentación con las manos mojadas. • Cuando el interruptor está en la posición OFF, el equipo no está completamente desconectado de la alimentación MAINS. • El equipo se instalará cerca de la fuente de alimentación de manera que resulte fácil acceder a ella.

CAUTIONS ON INSTALLATION PRÉCAUTIONS D'INSTALLATION EMPLAZAMIENTO DE LA INSTALACIÓN



*** For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.**

- More than 12 in. (0.3 m) is recommended.
- Do not place any other equipment on this unit.

*** Pour permettre la dissipation de chaleur requise, n'installez pas cette unité dans un espace confiné tel qu'une bibliothèque ou un endroit similaire.**

- Une distance de plus de 12 po (0,3 m) est recommandée.
- Ne placez aucun matériel sur cet appareil.

*** Para la dispersión del calor adecuadamente, no instale este equipo en un lugar confinado tal como una librería o unidad similar.**

- Se recomienda dejar más de 12 pulg. (0,3 m) alrededor.
- No coloque ningún otro equipo sobre la unidad.

Getting started

Thank you for purchasing this marantz product. To ensure proper operation, please read this user guide carefully before using the product.

After reading them, be sure to keep them for future reference.

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Accessories

Check that the following parts are supplied with the product.

- ① Owner's Manual 1
- ② Warranty card (for USA) 1
- ③ Warranty card (for CANADA)..... 1
- ④ Power cord 1
- ⑤ Remote control cable 1



About this manual

☐ Symbols



This symbol indicates a reference page on which related information is described.



This symbol indicates a supplementary information and tips for operations.

NOTE

This symbol indicates a supplementary information and tips for operations.

☐ Illustrations

Note that the illustrations in these instructions are for explanation purposes and may differ from the actual unit.

Features

Current feedback discrete power amp

This is equipped with a current feedback power amp that uses the complimentary push-pull circuit used in the marantz Hi-Fi power amp. This amp provides increased operating stability, and high-speed, wide ranging high-density playback.

The current/voltage conversion amplification section in the latter part of the power amp is equipped with a Wilson current mirror circuit that amplifies to the high sound range with low distortion.

Improved instant power supply capability

The final stage of the power amp is equipped with the same LAPT (high efficiency power transistor) that is installed in the marantz Hi-Fi power amp, providing improved instant power supply capability.

The power section is equipped with a large-sized transformer.

As one of the essential parts of the power section, this unit is equipped with marantz original 50,000 μF / 71 V \times 2 block condensers, which have been repeatedly tested for sound quality. These improvements to the power supply capability provide a powerful, presence-filled sound.

High sound quality design based on pure surround philosophy

Equipped with a chimney-shaped heat sink to efficiently process the heat emitted from each channel amp, and exceptionally quiet cooling fans. A high-sensitivity temperature sensor IC is used to control the cooling fans, adjusting the rotation speed to match the amount of heat generated by the amp.

These components provide the sound quality and low-noise you would expect at a high-end theater.

In addition, this unit is designed for superb quality sound, and is equipped with high quality components such as a high-end audio condenser and film condenser throughout.

BALANCED/UNBALANCED selecting function

Depending on the desired use, input for each channel can be selected between BALANCED input and UNBALANCED input.

Remote Power Control

This unit is equipped with a remote power control function. When a marantz AV Pre Tuner AV8801 or AV7701 is connected to this unit, this unit's power can be switched ON/OFF together with the AV8801 or AV7701 power supply.

Connection to the AV8801 or AV7701 is a ground floating connection that prevents negative influences on sound quality as far as possible.

Other Functions

Equipped with IR flash input that supports custom installations, and DC trigger input and output terminals.

Cautions on handling

• Before turning the power switch on

Check once again that all connections are correct and that there are no problems with the connection cables.

- Power is supplied to some of the circuitry even when the unit is set to the standby mode. When going on vacation or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

• About condensation

If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.

If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.

• Cautions on using mobile phones

Using a mobile phone near this unit may result in noise. If that occurs, move the mobile phone away from this unit when it is in use.

• Moving the unit

Turn off the power and unplug the power cord from the power outlet. Next, disconnect the connection cables to other system units before moving the unit.

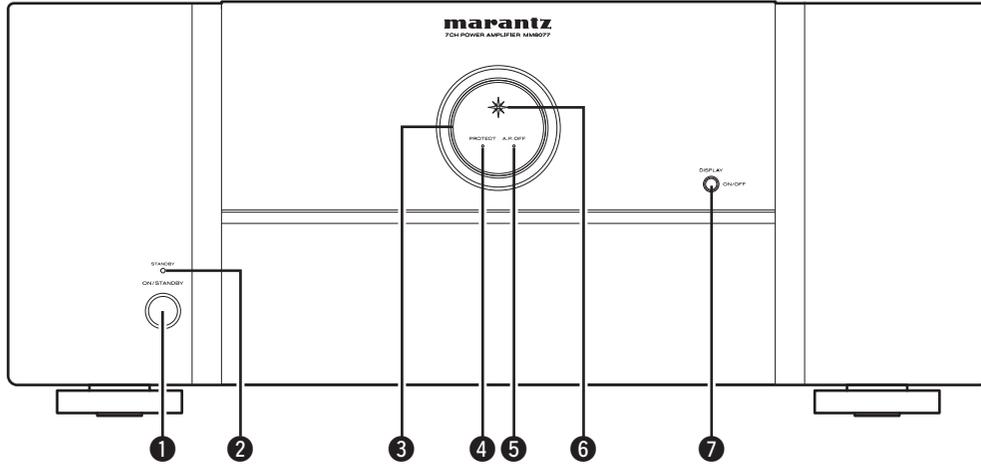
• About Care

- Wipe the cabinet and control panel clean with a soft cloth.
- Follow the instructions when using a chemical cleaner.
- Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should therefore not be used.

Part names

Front panel

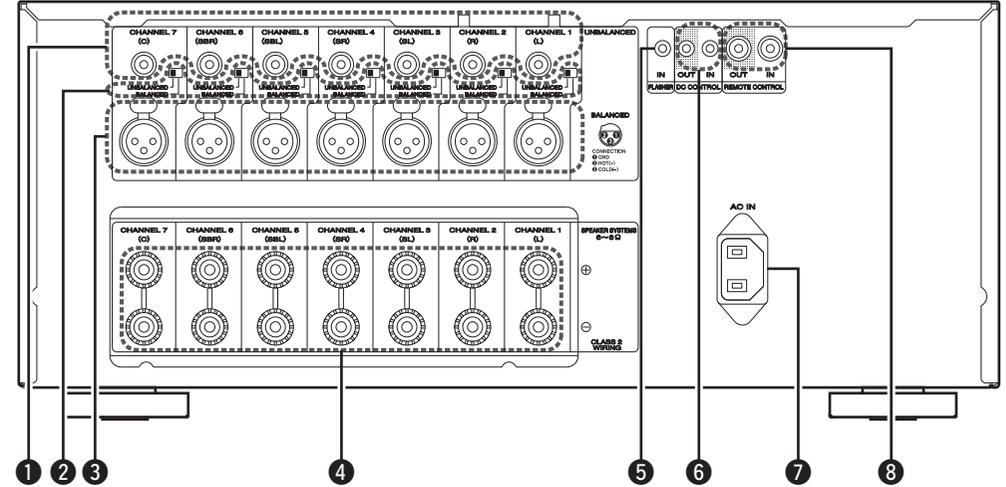
For buttons not explained here, see the page indicated in parentheses ().



- 1 Power operation button (ON/STANDBY) (9)
- 2 STANDBY indicator (9)
- 3 Illumination lamp (9)
- 4 Protection indicator (PROTECT) (9, 10)
- 5 Auto power off indicator (A.P.OFF) (9)
- 6 Power indicator (9)
- 7 DISPLAY button (9)
 - Press this button to turn the illumination lamp ON/OFF.
 - You can set the auto standby function by pressing and holding this button for more than 5 seconds.

Rear panel

See the page indicated in parentheses ().



- 1 RCA input connectors (UNBALANCED) (6)
- 2 Input selector (4)
- 3 XLR input connectors (BALANCED) (6)
- 4 Speaker terminals (SPEAKER SYSTEMS) (6)
- 5 FLASHER IN jack (8)
- 6 DC CONTROL jacks (8)
- 7 REMOTE CONTROL connectors (7, 8)
- 8 AC inlet (AC IN) (7)

Connections

NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components being connected.
- Check the channel, and then connect correctly.
- Do not bundle power cords together with connection cables. Doing so can result in noise.

Preparations

Cables used for connections

Prepare the correct cables for use with the additional devices.

Audio cables	
Balanced connections (XLR)	 <p>Balanced cable</p>
Unbalanced connections (RCA)	 <p>Audio cable</p>
Speaker connections	 <p>Speaker cable</p>

Sets the connected input connectors

Switches the input settings used for input to each channel.

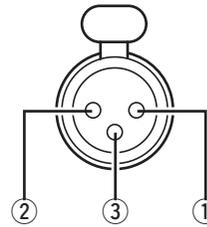


BALANCED: Set when connected to the XLR connector.
UNBALANCED: Set when connected to the RCA connector.

NOTE

If audio is input into input connectors that are not set using the input switching switch, the audio will not be output from the speakers.

XLR connector PIN arrangement



- ① GND (Ground)
- ② HOT (Hot)
- ③ COLD (Cold)

The PIN arrangement in this device uses the European method.

In the USA method, ② is COLD, and ③ is HOT.

When connecting a device that utilizes the USA type of PIN arrangement, replace the ② and ③ plugs on one side of the balanced cable.

NOTE

Do not short the HOT and GND or COLD and GND for use.

Speaker connections

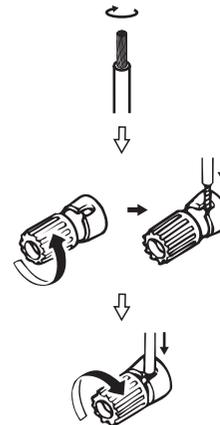
Carefully check the channels of the speakers to be connected to this unit (L/R/SL/SR/C) and + (red), - (black), and connect like poles together.

NOTE

- Connect so that the speaker cable core wires do not protrude from the speaker terminal. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other (see page 10 "Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.
- Use speakers with impedance of 6 to 8 Ω.

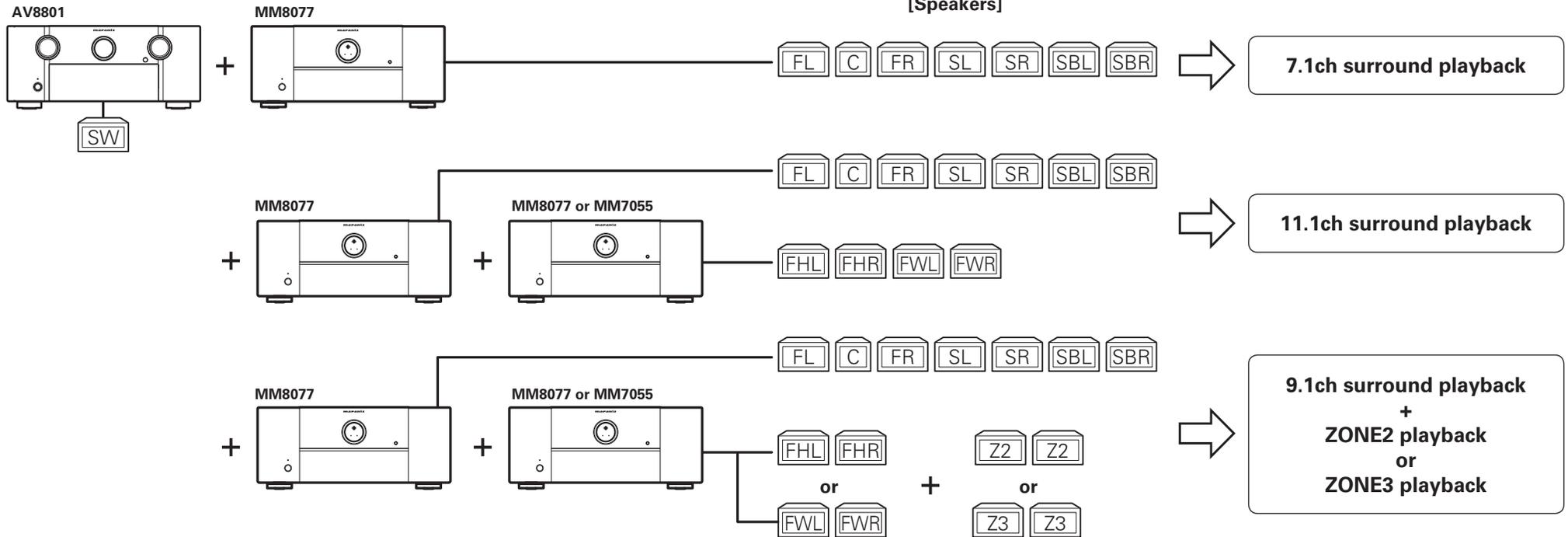
Connecting the speaker cables

Peel off about 0.03 ft/10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.



Example connection variation

Connection to an AV pre-tuner



FL Front speaker (L)	C Center speaker	SL Surround speaker (L)	SBL Surround back speaker (L)	FHL Front height speaker (L)
FR Front speaker (R)	SW Subwoofer	SR Surround speaker (R)	SBR Surround back speaker (R)	FHR Front height speaker (R)
FWL Front wide speaker (L)	FWR Front wide speaker (R)	Z2 Zone2 speaker	Z3 Zone3 speaker	

Getting started

Part names

Connections

Operations

Explanation of terms

Troubleshooting

Specifications

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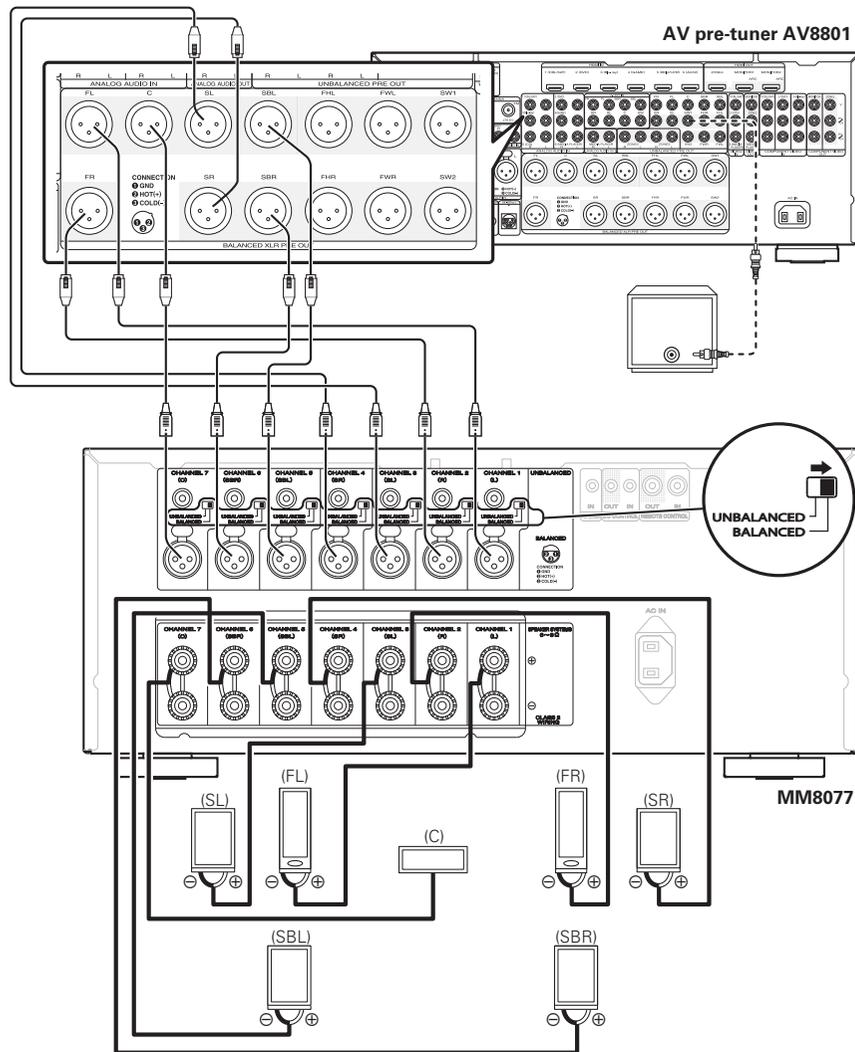
Connecting MM8077 with an AV pre-tuner (AV8801)

The illustrations below show connection examples for performing 7.1-channel surround playback using the MM8077 and AV pre-tuner (AV8801).

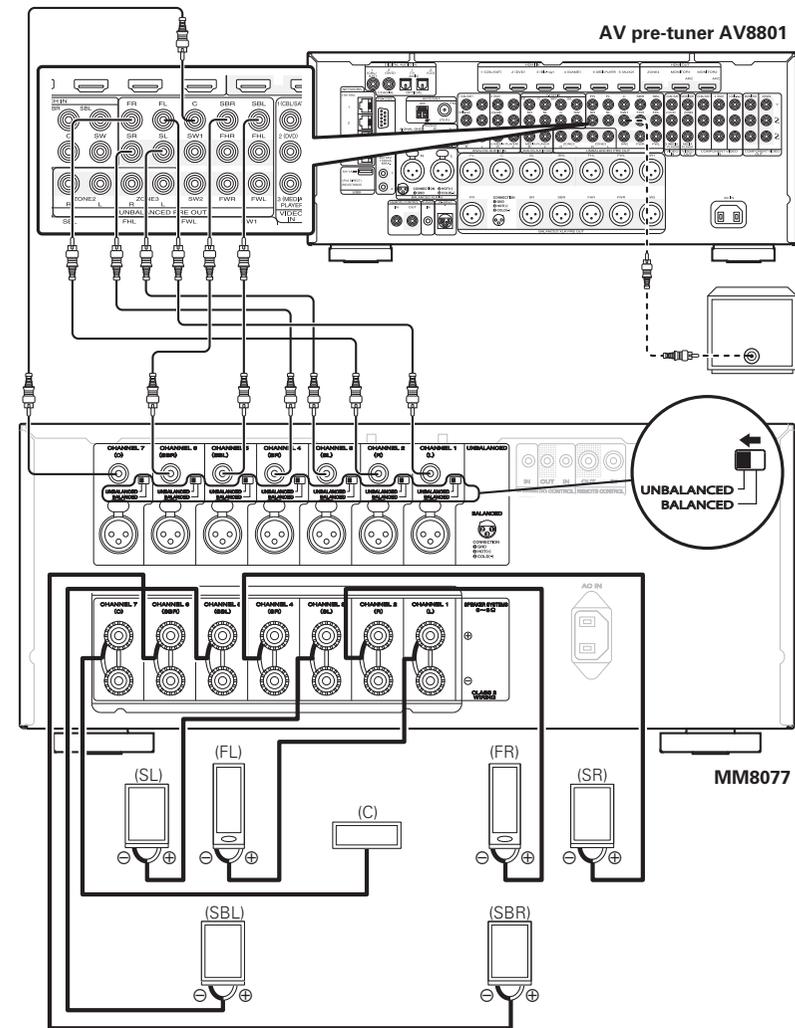


- For settings and operating procedures of the AV8801, see the AV8801 owner's manual.
- When connecting the AV8801, be sure to also consult the AV8801 owner's manual.

Balanced connections (when connecting to the XLR input connectors)

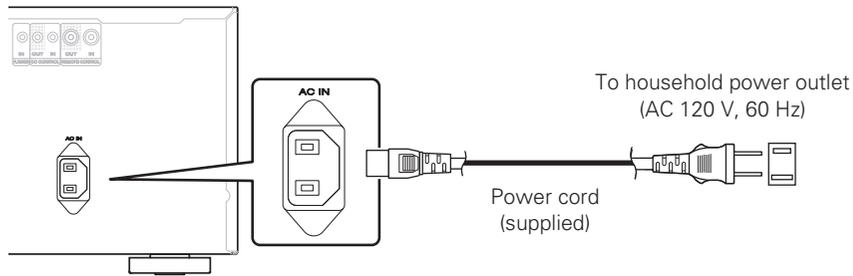


Unbalanced connections (when connecting to the RCA input connectors)



Connecting the power cord

Wait until all connections have been completed before connecting the power cord.



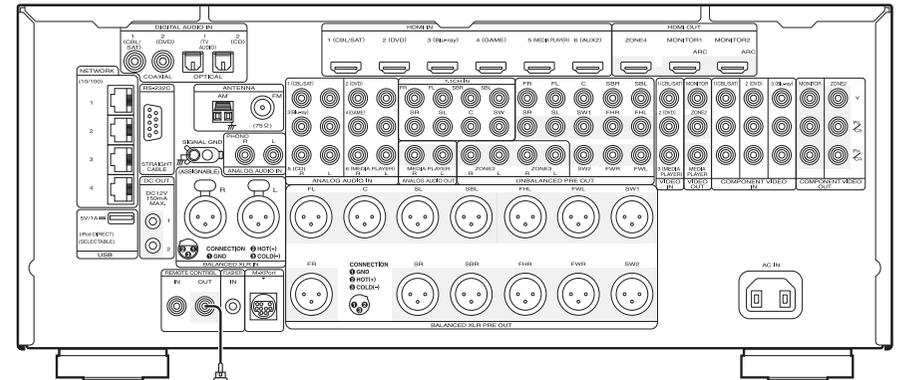
NOTE

- Insert the plugs securely. Loose connections will result in the generation of noise.
- During power standby, a minimal amount of power is consumed. To totally cut off the power, remove the power cord from the power outlet.

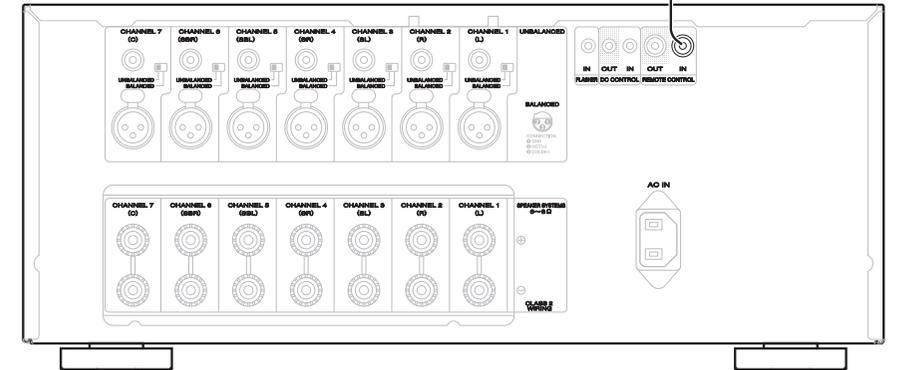
Remote control connection

When connecting a marantz AV8801 AV pre-tuner, you can switch the power of this unit to ON/STANDBY together with the AV8801 power supply.
For details, see the AV8801 owner's manual.

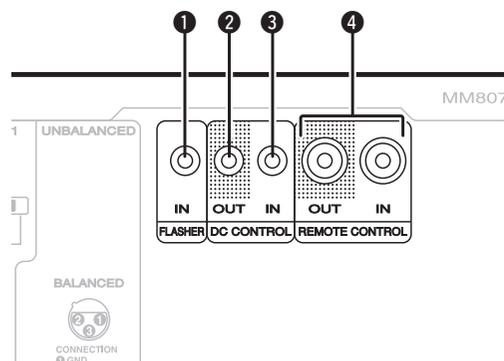
AV pre-tuner AV8801



MM8077



Connection to an external control device



1 Flasher input connector (FLASHER IN)

Used when connecting a control box or other control device to this unit, and using such a device to control this unit.

2 DC control output connector (DC CONTROL OUT)

Used when connecting a device that has a DC control input terminal to this unit, and linking the power ON/STANDBY function of this device with the power ON/STANDBY of the connected device.

An electrical signal of max 12 V/44 mA is output from the DC control output terminal.

For details, see the instruction manual of the connected device.

NOTE

- Do not use the DC control output terminal as the power supply for an external device.
- When using this unit with a device connected to the DC control connector, set the auto standby function to "Off" (page 9 "Setting the power to standby automatically (Auto standby function)").

3 DC control input connector (DC CONTROL IN)

Used when connecting a unit that has a DC control input terminal to this device, and linking the power ON/STANDBY of the connected device with the power ON/STANDBY of this unit.

For details, see the instruction manual of the connected device.

NOTE

- When a 5 V – 15 V voltage is input to the DC control input terminal, the power of this unit switches ON. However, inputting voltage outside of this range will cause damage to this unit.
- When using this unit with a device connected to the DC control connector, set the auto standby function to "Off" (page 9 "Setting the power to standby automatically (Auto standby function)").

4 Remote control connector

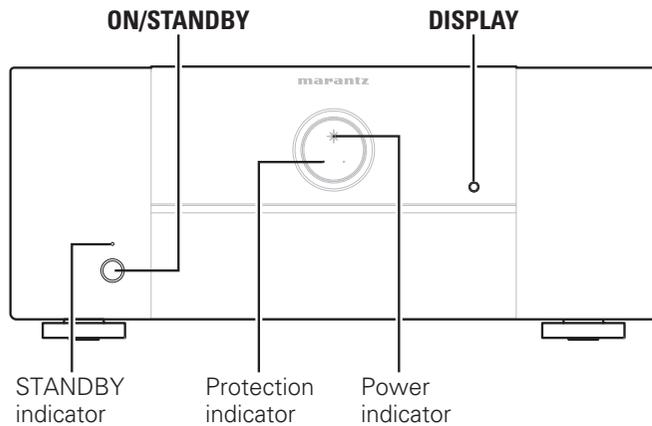
Used when connecting an external control device to this unit, and using the device to control this unit.

NOTE

When connecting a marantz AV8801 or AV7701 AV pre-tuner, you can switch the power of this unit to ON/STANDBY together with the AV8801/AV7701 power supply.

For details, see the AV8801 or AV7701 owner's manual.

Operations



Turning the power on

When the power is in standby, press ON/STANDBY.

- The protection indicator flashes for approximately 7 seconds, and the power switches on.
- The power indicator lights.

NOTE

When turning the power ON, turn the volume control of connected devices down to the minimum.

Turning the power standby

When the power is in power on, press ON/STANDBY.

The STANDBY indicator lights, and the power changes to standby.

NOTE

Even if the unit is switched to standby, some of the circuits are still active. If you will not be using this unit for a prolonged period (due to a holiday etc), remove the power plug from the wall socket.

Furthermore, to prevent unexpected accidents, make sure the power plug is located where it can be removed at any time.

Switching the illumination lamp ON/OFF

If the unit is being used with the factory settings, the illumination lamp lights.

You can turn the illumination lamp off if it is making the room too bright at nighttime.

Press DISPLAY.

Each time this button is pressed, the illumination lamp turns ON/OFF.

Setting the power to standby automatically (Auto standby function)

When the auto standby function is set to ON, if there are no signals input into this unit and no operations are performed for more than 30 minutes, the power of this unit automatically switches to standby.

- The factory setting is "Off".

Press DISPLAY for more than 5 seconds.

The auto power off display switches as shown below according to the auto standby function.

- When the auto standby function is ON: Lit
- When the auto standby function is OFF: Off

NOTE

When performing the "Setup Assistant" or "Speaker Setup" function on AV7701 or AV8801 that is used together with this unit, set the auto standby function to "Off" on this unit.

Explanation of terms

P

Protection circuit

This is a function to prevent damage to components within the power supply when an abnormality such as an overload or excess voltage occurs for any reason.

In this unit, the STANDBY indicator and protection indicator blinks and the unit enters standby mode when an abnormality occurs.

S

Speaker impedance

This is certain-rated resistance of the speaker set to an alternating current and expressed in ohms.

The smaller the impedance, the greater the output.

However, load on the amplifier is increased. Use speakers whose impedance is supported by this unit.

Troubleshooting

If a problem should arise, first check the following:

1. Are the connections correct?

2. Is the set being operated as described in the user guide?

3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. In this case, disconnect the power immediately and contact your store of purchase.

Symptom	Cause/Solution	Page
The power does not switch on. Or, the power switches off immediately after being switched on.	<ul style="list-style-type: none"> • Check that the power plug is inserted correctly in the wall socket. • The protective circuit has operated. In this case, remove the power plug from the wall socket, and wait for at least 1 minute before inserting it in the wall socket again. 	7 7, 10
There is no sound from the speakers.	<ul style="list-style-type: none"> • Check the speaker connections and connections to the other devices. • Alter the input selector to match the input connector (BALANCED or UNBALANCED) of the connected device. 	6 4
The power suddenly switches off during use, and the STANDBY indicator and protection indicator flash at approximately 0.5 second intervals.	<ul style="list-style-type: none"> • The internal temperature of the unit has increased, causing the protective circuit to operate. Remove the power plug from the wall socket, wait until the temperature of the unit has dropped adequately, and then insert the power plug back into the wall socket. • Install this unit in a well-ventilated location. • Use speakers that have the specified impedance. • If the two core wires of the speaker cables are touching, or if a core wire is out of the terminal causing the core wire to touch the rear panel of this unit, the protective circuit will operate. Remove the power plug from the wall socket, and firmly re-insert the core wire, or fix the terminal before reconnecting it. • Turn the volume down on the amp connected to this unit, and insert the power plug again. 	– – 4 4, 10 –
When the power switches off suddenly during use, the STANDBY indicator flash at approximately 0.1 second intervals and protection indicator flash at approximately 0.5 second intervals.	<ul style="list-style-type: none"> • The protective circuit has operated. In this case, remove the power plug from the wall socket, re-examine the installation conditions of this unit, and check the speaker cable connections. If the same situation occurs when the power is switched on again, contact the marantz Service Center. 	6, 7, 10

Specifications

Rated power output (from 20 Hz to 20 kHz/THD = 0.08 %, two channels driven):	150 W/ch, 8 Ω 180 W/ch, 6 Ω
Maximum effective output power (from 1 kHz, 6 Ω, 10% two channels driven):	210 W/ch, 6 Ω
Output connectors:	6 – 8 Ω
Frequency response (1 W, 8 Ω):	8 Hz – 100 kHz (±3 dB)
Damping factor:	100
Input sensitivity/impedance:	1.2 V / 22 kΩ (UNBALANCED) 2.4 V / 30 kΩ (BALANCED)
Signal-to-noise ratio (IHF-A):	105 dB
Voltage amplification level:	29 dB
Supply voltage:	AC 120 V, 60 Hz
Power consumption:	800 W
Standby power:	0.4 W

For purposes of improvement, specifications and design are subject to change without notice.

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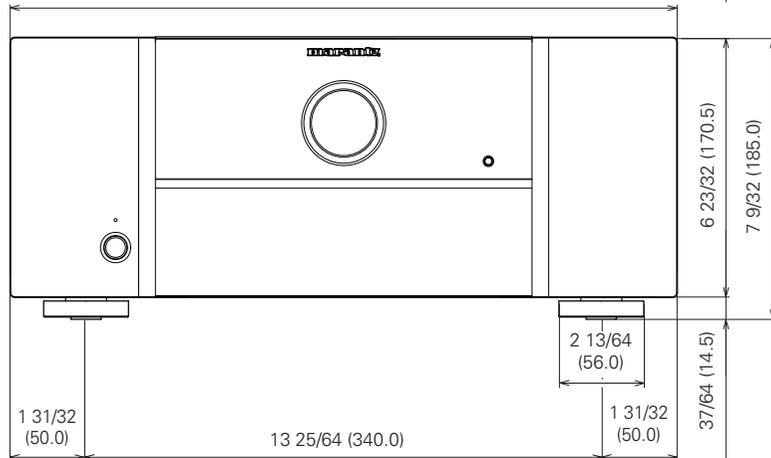
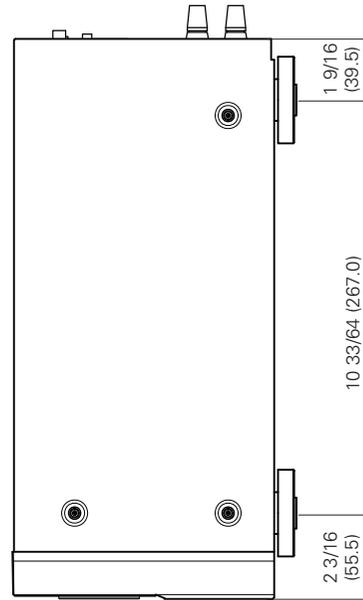
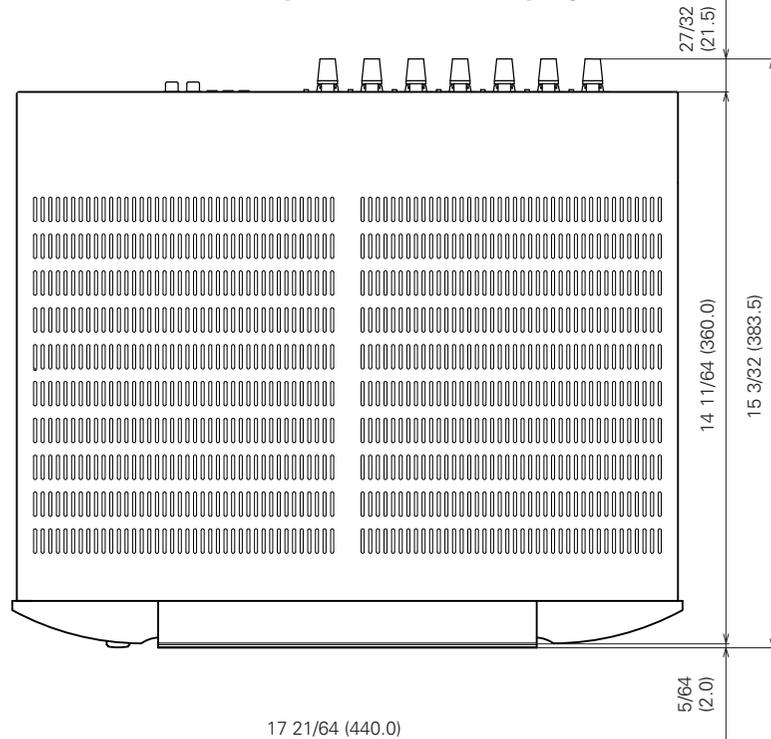
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Dimensions / Dimensions / Dimensioni

Unit : in. (mm) / Unité : po (mm) / Unidad: pulg. (mm)



Weight / Poids / Peso : 39 lbs 11 oz (18.0 kg)

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