



marantz® 5 Channel Power Amplifier
MM7055
2 Channel Power Amplifier
MM7025

User Guide

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.

Contents

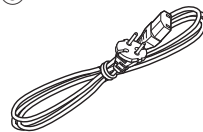
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Accessories

Check that the following parts are supplied with the product.

- ① User guide 1
- ② Safety instructions..... 1
- ③ Power cord 1
- ④ Remote control cable 1

③



④



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 SM-11S1 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 SM-11S1 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 33,000 μF / 71 V \times 2 (MM7055), and 15,000 μF / 71 V \times 2 (MM7025) 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 Pretuner AV8003 or AV7005 is connected to this unit, this unit's power can be switched ON/OFF together with the AV8003 or AV7005 power supply.

Connection to the AV8003 or AV7005 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

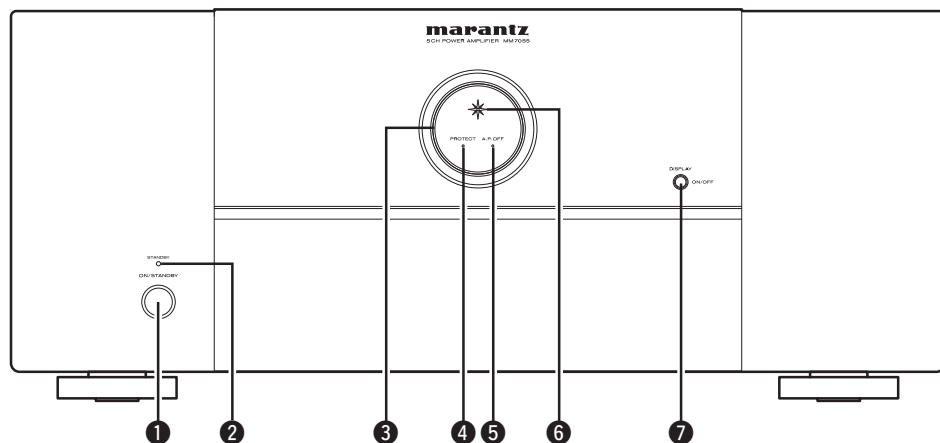
- Wipe the cabinet and control panel clean with a soft cloth.
- Follow the instructions when using a chemical cleaner.
- Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should therefore not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

Part names

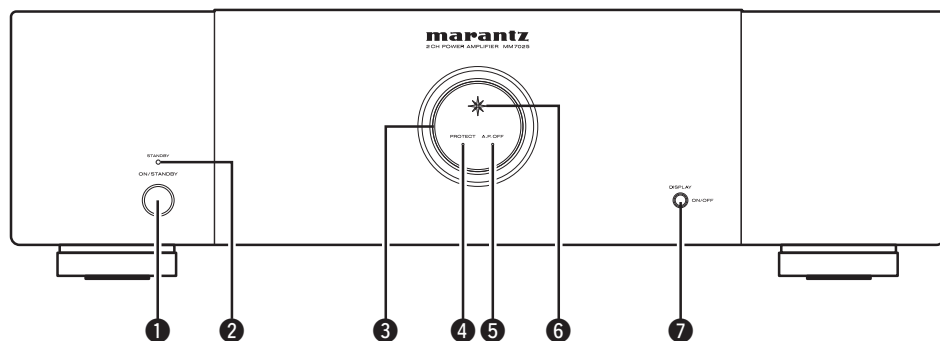
Front panel

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

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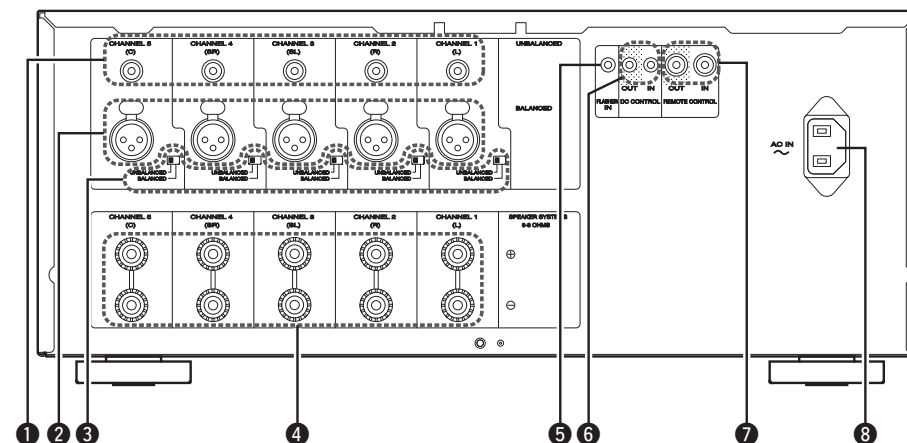


- 1 Power switch (ON/STANDBY) (9)
- 2 STANDBY indicator (9)
- 3 Illumination lamp (9)
- 4 Protection indicator (PROTECT) (9, 10)
- 5 Auto power off indicator (A.P.OFF) (9)
- 6 Power indicator (9)
- 7 DISPLAY button (9)
 - Press this button to turn the illumination lamp ON/OFF.
 - You can set the auto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

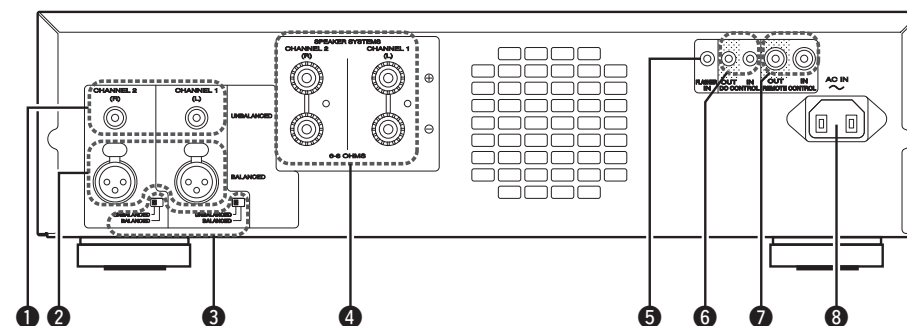
Rear panel

See the page indicated in parentheses ().

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- 1 RCA input connectors (UNBALANCED) (6)
- 2 XLR input connectors (BALANCED) (6)
- 3 Input selector (4)
- 4 Speaker terminals (SPEAKER SYSTEMS) (6)
- 5 Flasher input terminals (FLASHER IN) (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)	 Balanced cable
Unbalanced connections (RCA)	 Audio cable
Speaker connections	 Speaker cable

Sets the connected input connectors

Switches the input settings used for input to each channel.

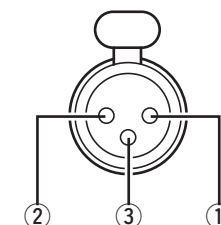


BALANCED: Set when connected to the XLR connector.
UNBALANCED: Set when connected to the RCA connector.

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

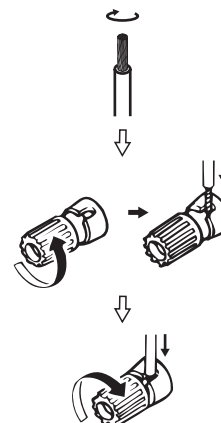
Do not short the HOT and GND or COLD and GND for use.

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.

Connecting the speaker cables

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

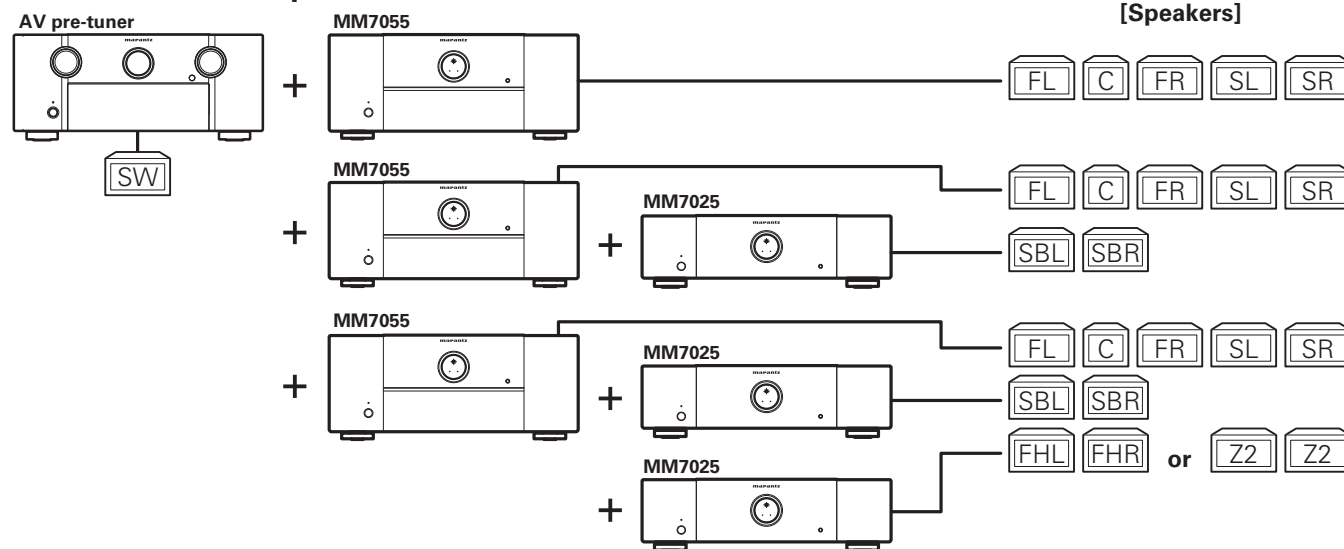


NOTE

- 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 ohms or more.

Example connection variation

❑ Connection to an AV pre-tuner



5.1ch surround playback



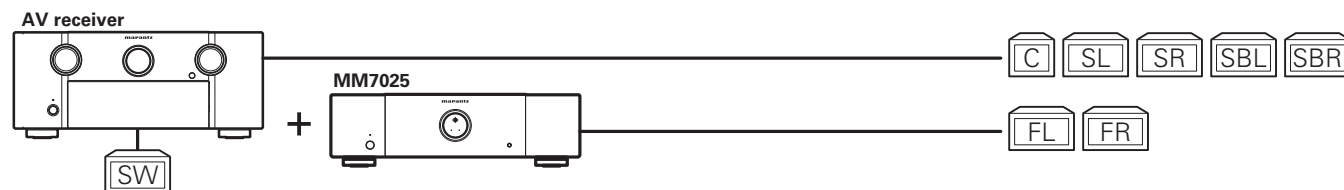
7.1ch surround playback



9.1ch surround playback
or
7.1ch surround playback
+
ZONE2 playback

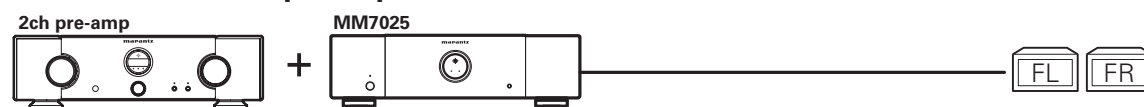
❑ Connection to an AV receiver

Using both the AV receiver and the amplifier of this unit. Combine with an AV receiver that has a pre-out output.



Front speaker upgrade

❑ Connection to a 2ch pre-amp



2ch playback

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)
Z2 Zone2 speaker				

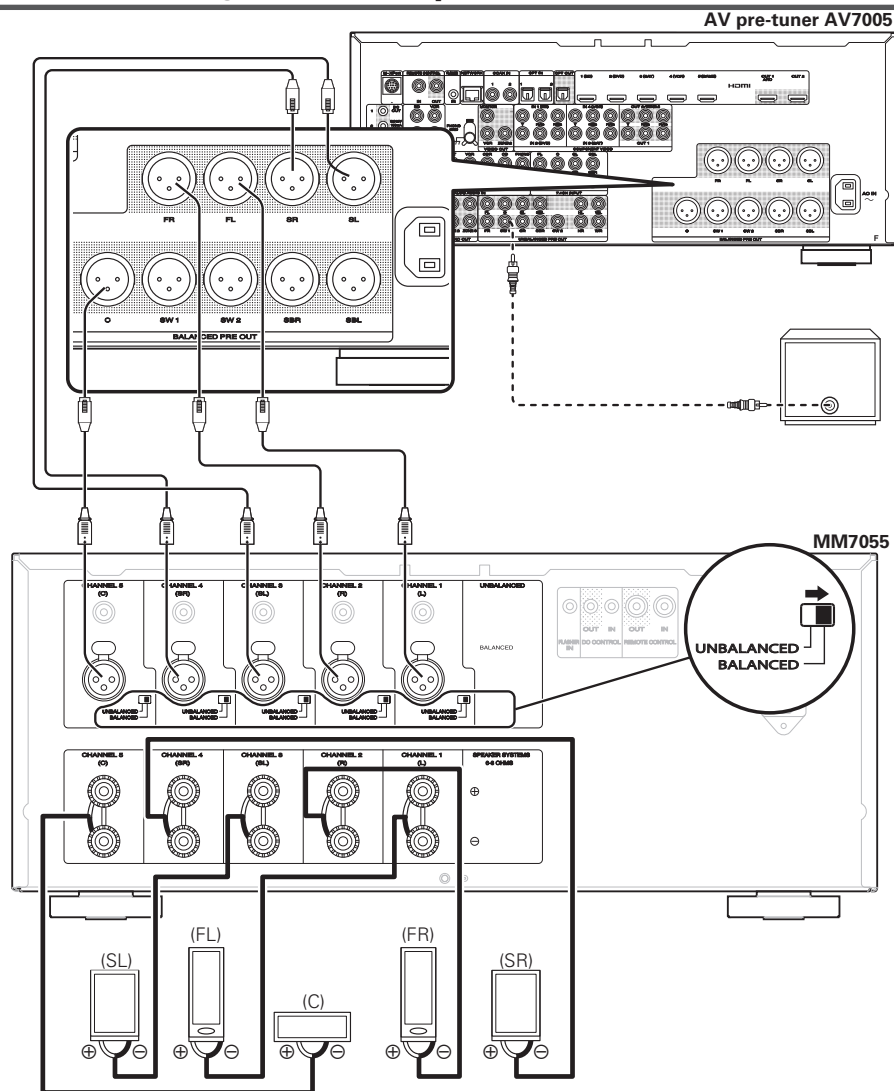
Connecting MM7055 with an AV pre-tuner (AV7005)

The illustrations below show connection examples for performing 5.1-channel surround playback using the MM7055 and AV pre-tuner (AV7005).

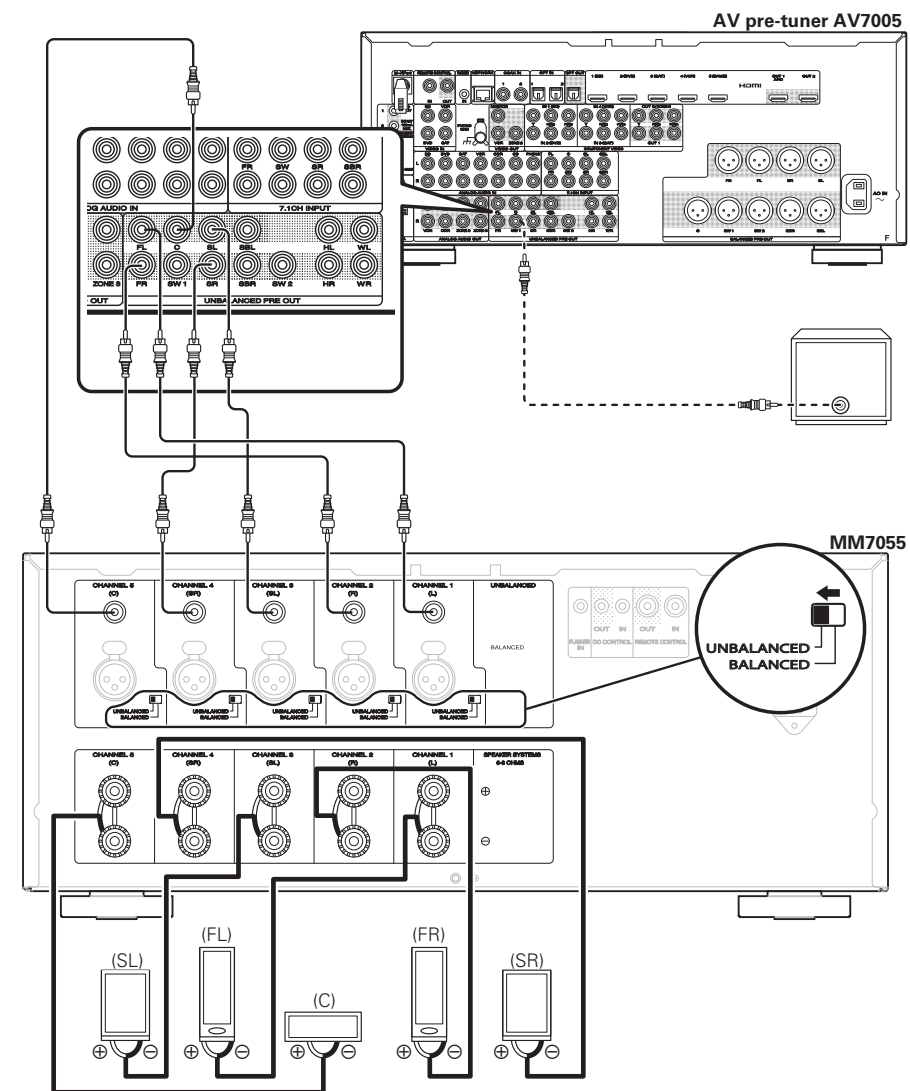


- For settings and operating procedures of the AV7005, see the AV7005 instruction manual.
- When connecting the AV7005, be sure to also consult the AV7005 instruction manual.

Balanced connections (when connecting to the XLR input connectors)



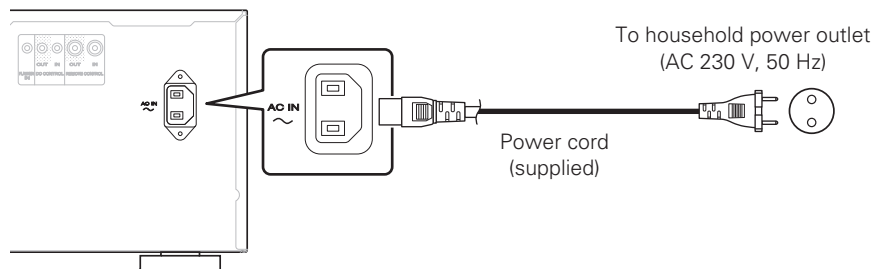
Unbalanced connections (when connecting to the RCA input connectors)



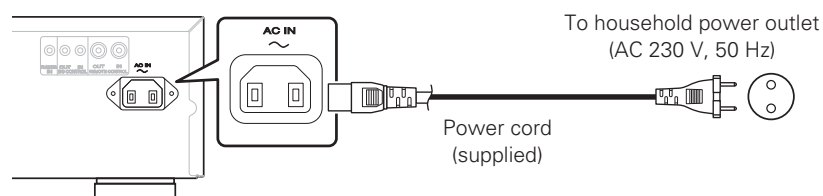
Connecting the power cord

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

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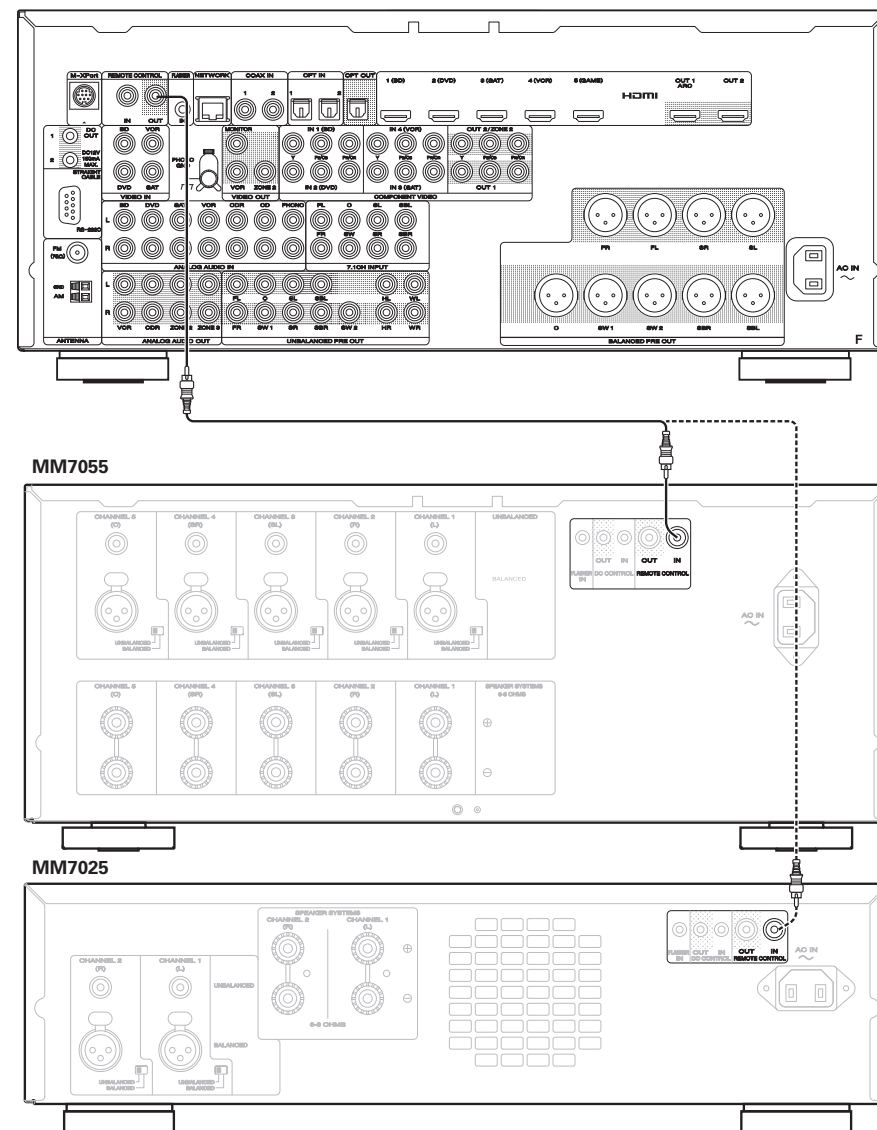


NOTE

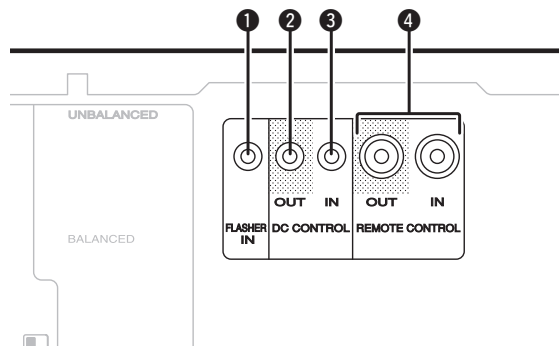
- Insert the plugs securely. Loose connections will result in the generation of noise.
- During power standby, a minimal amount of power is consumed. To totally cut off the power, remove the power cord from the power outlet.

Remote control connection

When connecting a Marantz AV8003 or AV7005 AV pre-tuner, you can switch the power of this unit to ON/STANDBY together with the AV8003/AV7005 power supply.
For details, see the AV8003 or AV7005 instruction manual.



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.

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.

4 Remote control connector

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

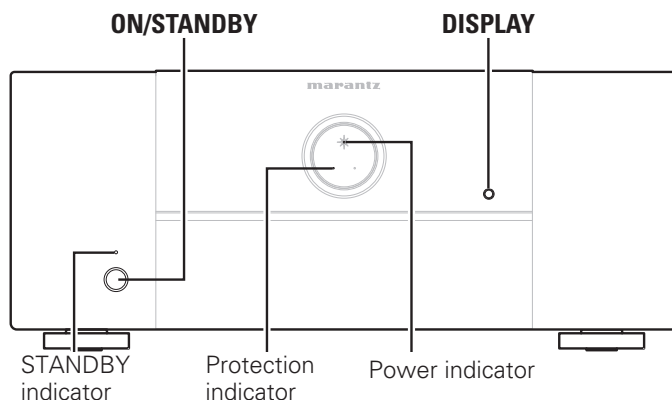
NOTE

When connecting a Marantz AV8003 or AV7005 AV pre-tuner, you can switch the power of this unit to ON/STANDBY together with the AV8003/AV7005 power supply.

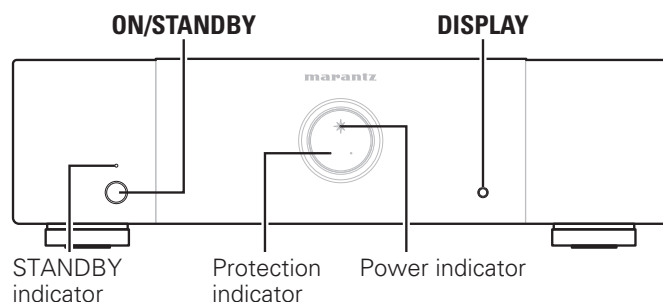
For details, see the AV8003 or AV7005 instruction manual.

Operations

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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 15 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

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

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Rated power output (from 20 Hz to 20 kHz/THD = 0.08 %, two channels driven):	140 W/ch, 8 Ω 170 W/ch, 6 Ω
Maximum effective output power (from 1 kHz, two channels driven):	210 W/ch, 6 Ω
Output bandwidth (8 Ω load, 0.09 %):	5 Hz – 40 kHz
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 230 V, 50 Hz
Power consumption:	660 W
Standby power:	0.2 W
Maximum external dimensions:	440 (W) x 183 (H) x 384 (D) mm
Weight:	15.7 kg

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Rated power output (from 20 Hz to 20 kHz, two channels driven):	140 W/ch, 8 Ω 170 W/ch, 6 Ω
Maximum effective output power (from 1 kHz, two channels driven):	210 W/ch, 6 Ω
Output bandwidth (8 Ω load, 0.09 %):	5 Hz – 40 kHz
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 230 V, 50 Hz
Power consumption:	330 W
Standby power:	0.2 W
Maximum external dimensions:	440 (W) x 126 (H) x 352 (D) mm
Weight:	10.8 kg

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

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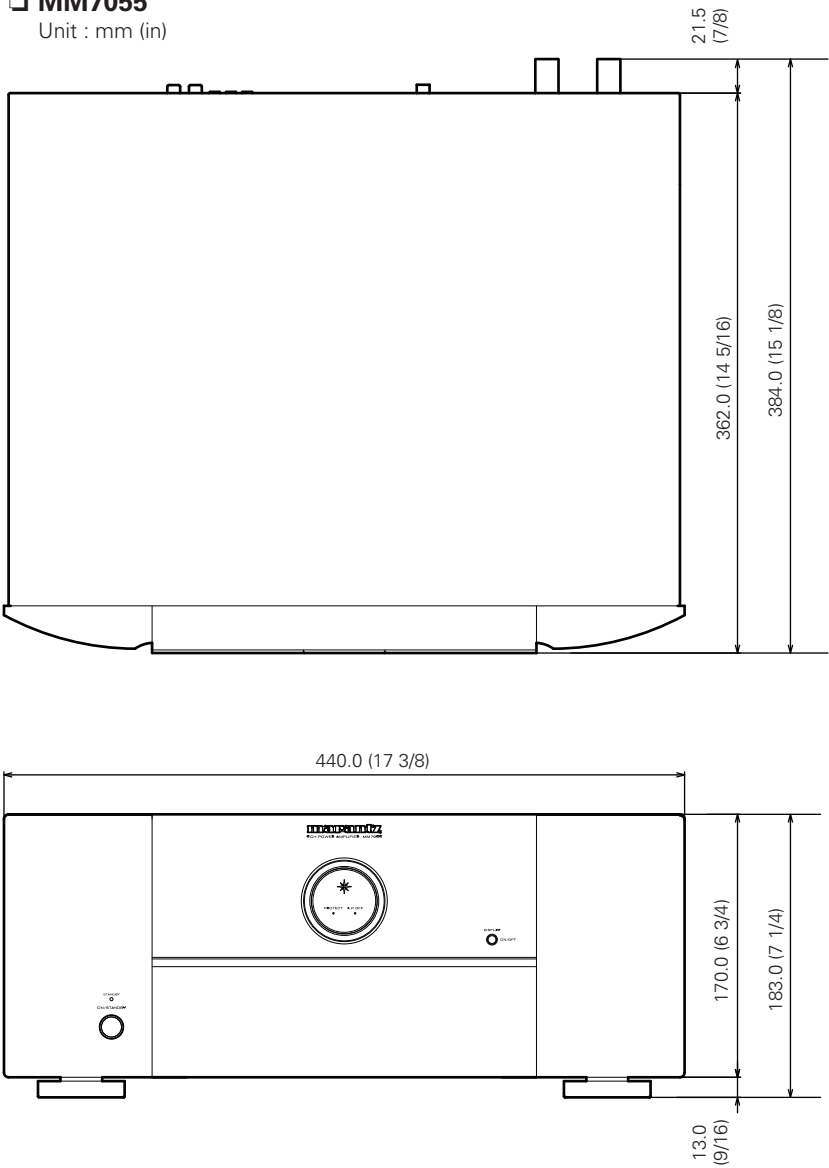
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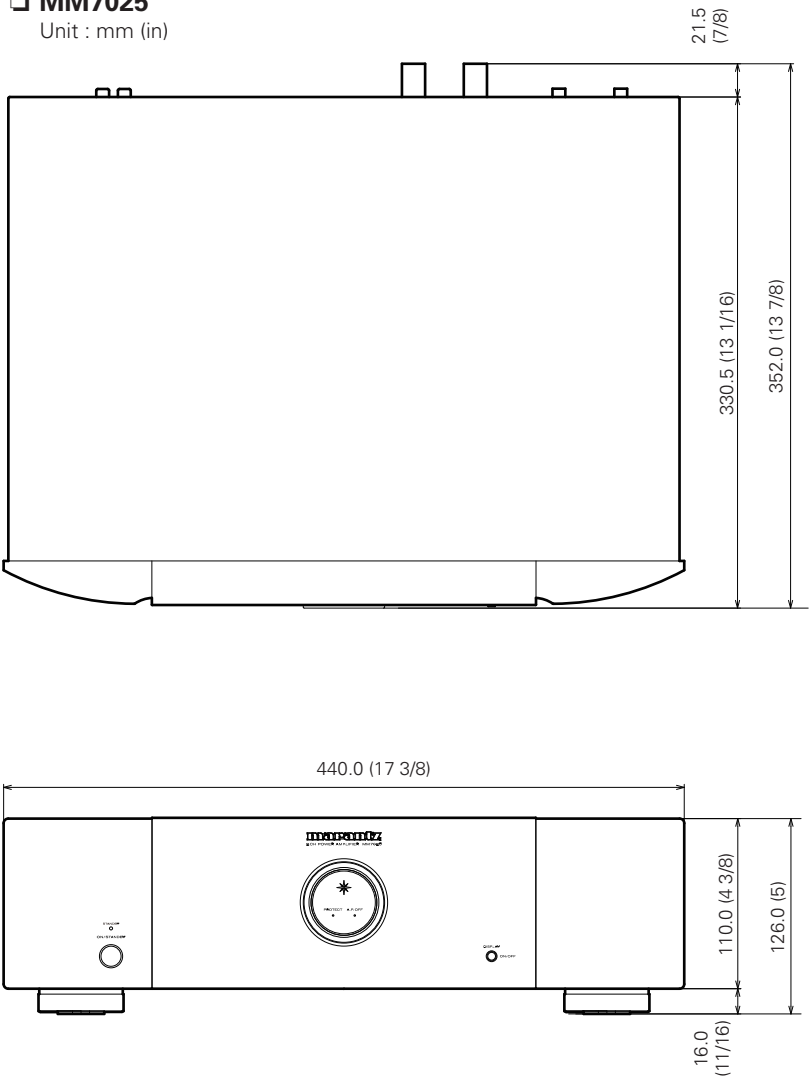
MM7055

Unit : mm (in)



MM7025

Unit : mm (in)



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