YAMAHA

AV Receiver

RX-V3073
RX-V2073

Easy Setup Guide

English

This document explains how to set up a 9.1-channel system and play back surround sound from a BD/DVD on the unit.

To reduce the impact on natural resources, the Owner's Manual for this product is supplied on CD-ROM. For more information about this product, refer to the Owner's Manual on the supplied CD-ROM.
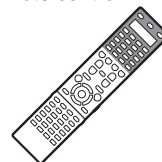
PDF versions of this guide and "Owner's Manual" can be downloaded from the following website.
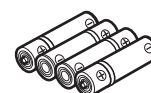http://download.yamaha.com/

1 Preparation

Accessories

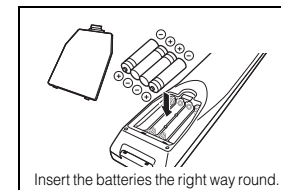Check that the following accessories are supplied with the product.

☐ Remote control   ☐ Batteries (x4)

*RX-V3073: AAA, LR03, UM-4
RX-V2073: AAA, R03, UM-4

Insert the batteries the right way round.

☐ AM antenna   ☐ FM antenna   ☐ YPAO microphone

*One of the above is supplied depending on the region of purchase.

☐ Microphone base (RX-V3073 only) ☐ Power cable   ☐ CD-ROM (Owner's Manual)   ☐ Safety Brochure   ☐ Easy Setup Guide

*Using for angle measurement during YPAO.

*The supplied power cable varies depending on the region of purchase.

- The illustrations of the main unit and remote control used in this guide are of the RX-V3073, unless otherwise specified.

Cables required for connections

The following cables (not supplied) are required to build the system described in this document.
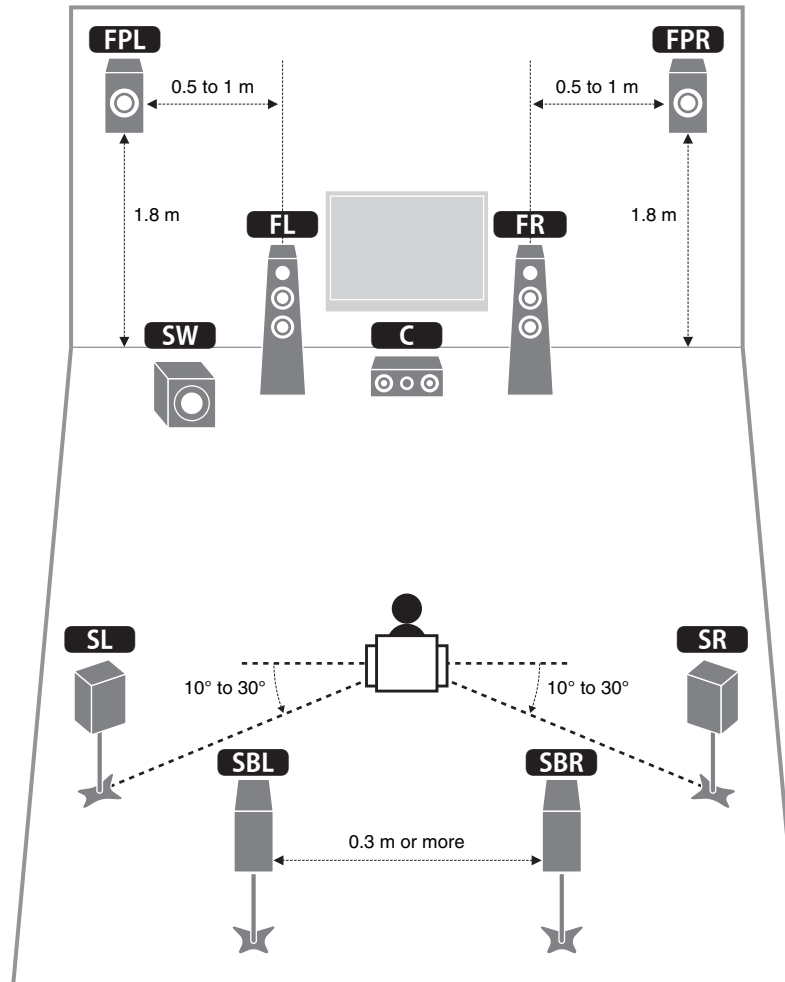
- Speaker cables (x9)
- HDMI cable (x2)
- Audio pin cable (x1)
- Digital optical cable or stereo pin cable (x1*)
       * Not required if your TV supports ARC (Audio Return Channel)

2 Placing speakers

Set up the speakers in the room using the following diagram as a reference.

For information on speaker systems other than 9.1-channel system, refer to "Owner's Manual".

FPL   0.5 to 1 m   0.5 to 1 m   FPR

1.8 m   FL   FR   1.8 m

SW   C

SL   SR

10° to 30°   10° to 30°

SBL   SBR

0.3 m or more

FL Front speaker (L)
FR Front speaker (R)
C Center speaker
SL Surround speaker (L)
SR Surround speaker (R)
SBL Surround back speaker (L)
SBR Surround back speaker (R)
FPL Front presence speaker (L)
FPR Front presence speaker (R)
SW Subwoofer

3 Connecting speakers/subwoofer

- Under its default settings, the unit is configured for 8-ohm speakers. When connecting 6-ohm speakers, set the unit's speaker impedance to "6 Ω MIN". For details, see "Setting the speaker impedance" in "Owner's Manual".
- Use a subwoofer equipped with built-in amplifier.
- Before connecting the speakers, remove the unit's power cable from the AC wall outlet and turn off the subwoofer.
- Ensure that the core wires of the speaker cable do not touch each other or come into contact with the unit's metal areas. This may damage the unit or the speakers. If the speaker cables short circuit, "Check SP Wires" will appear on the front display when the unit is turned on.

■ Connecting speaker cables

Speaker cables have two wires. One is for connecting the negative (–) terminals of the unit and the speaker, and the other is for the positive (+) terminals. If the wires are colored to prevent confusion, connect the black wire to the negative and the other wire to the positive terminals.

① Remove approximately 10 mm of insulation from the ends of the speaker cable and twist the bare wires of the cable firmly together.

+ (red)

– (black)

② Loosen the speaker terminal.

③ Insert the bare wires of the cable into the gap on the side (upper right or bottom left) of the terminal.
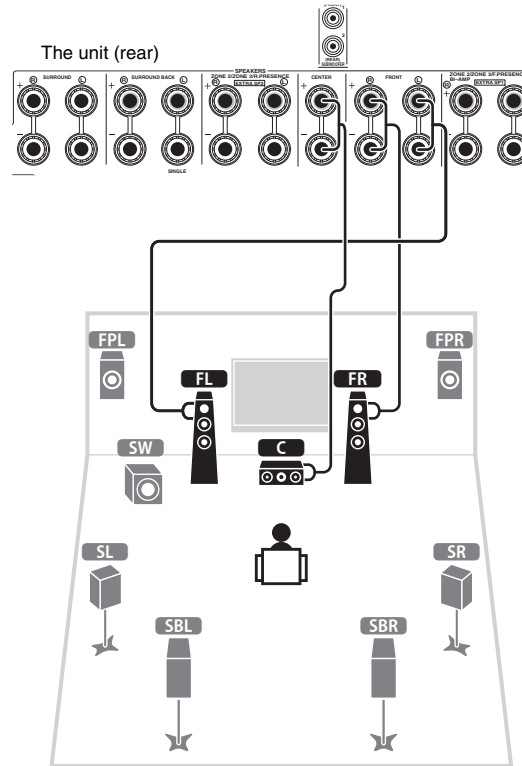
④ Tighten the terminal.
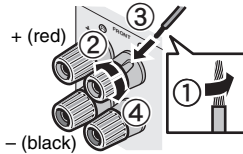
Using a banana plug

① Tighten the speaker terminal.

② Insert a banana plug into the end of the terminal.

Banana plug
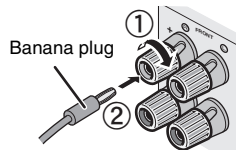
1 Connect the front speakers (**FL**/**FR**) to the FRONT (Ⓛ/Ⓡ) and the center speaker (**C**) to the CENTER terminal.

The unit (rear)

2 Connect the surround speakers (**SL**/**SR**) to the SURROUND (Ⓛ/Ⓡ) terminals.

The unit (rear)
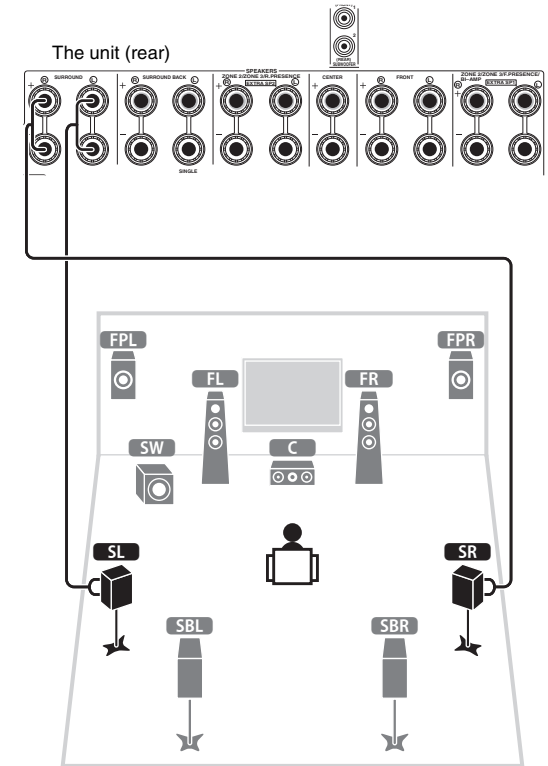
3 Connect the surround back speakers (`SBL`/`SBR`) to the SURROUND BACK (Ⓛ/Ⓡ) terminals.

The unit (rear)
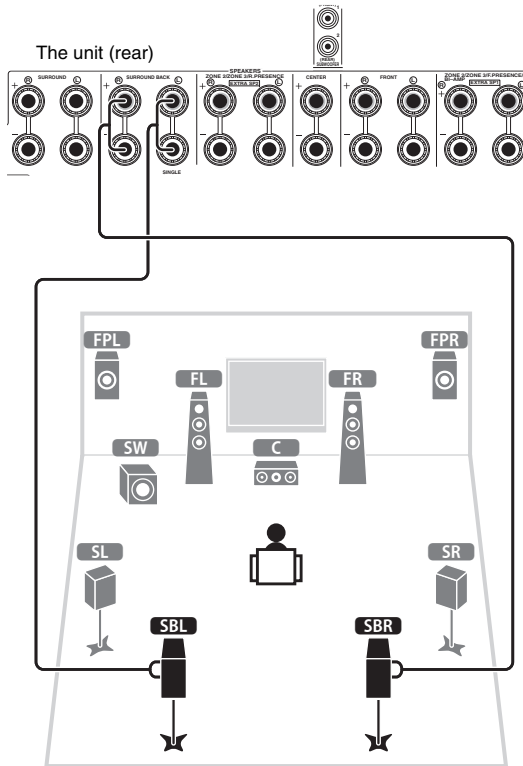
4 Connect the front presence speakers (`FPL`/`FPR`) to the EXTRA SP 1 (Ⓛ/Ⓡ) terminals.

The unit (rear)
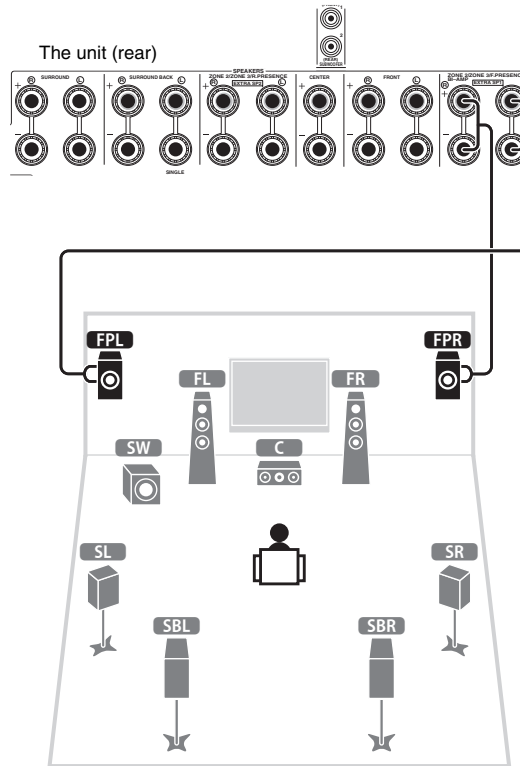
5 Connect the subwoofer (`SW`) to the SUBWOOFER (1) jack.

The unit (rear)

Audio pin cable
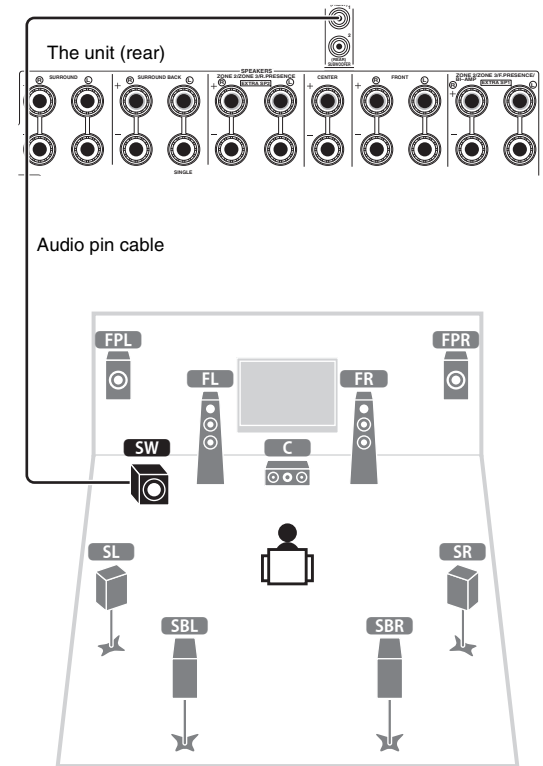
4 Connecting external devices

Audio out (digital optical or analog stereo)

TV

HDMI in

HDMI out

BD/DVD player

OPTICAL R L

HDMI OUT 1 jack

HDMI (AV 1) jack

AUDIO 1 (OPTICAL or AUDIO) jack

The unit (rear)

To an AC wall outlet

Turn on the unit

Press the bottom of the front panel door gently to open the door

The unit (front)
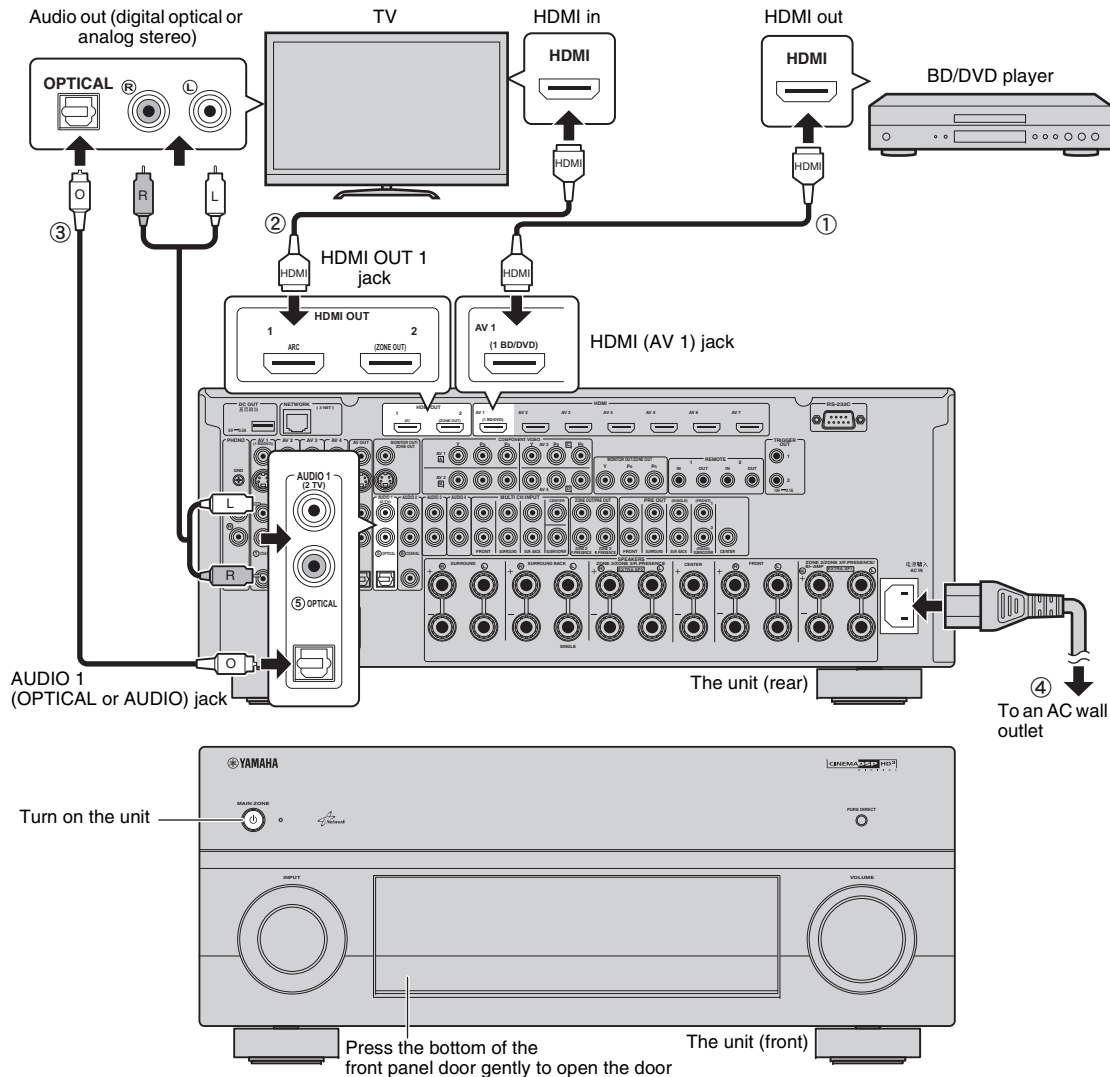
1 Connect external devices to the unit.

① Connect a BD/DVD player to the unit with an HDMI cable.
   If the BD/DVD player is currently connected to the TV directly with an HDMI cable, disconnect the cable from the TV and connect it to the unit.

② Connect a TV to the unit with the other HDMI cable.

③ Connect a TV to the unit with a digital optical cable or a stereo pin cable.
   This connection is required to play back TV audio on the unit. This connection is not required if your TV supports ARC (Audio Return Channel).

④ Connect the supplied power cable to the unit and then to an AC wall outlet.

• For information on how to connect radio antennas or other external devices, see "PREPARATIONS" in "Owner's Manual".

2 Turn on the unit, the TV and the BD/DVD player.

3 Use the TV remote control to change the TV input to video from the unit.

The connections are complete. Proceed to the next page to optimize the speaker settings.
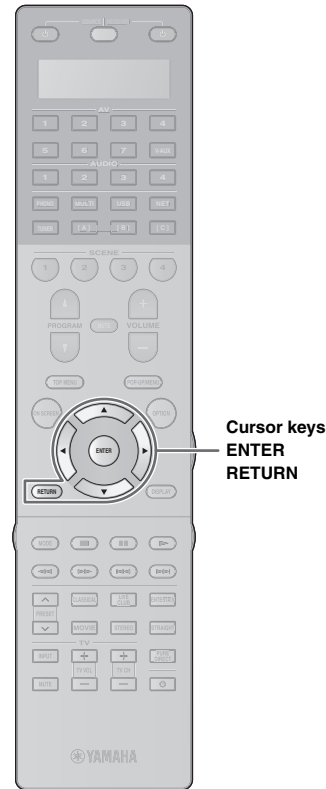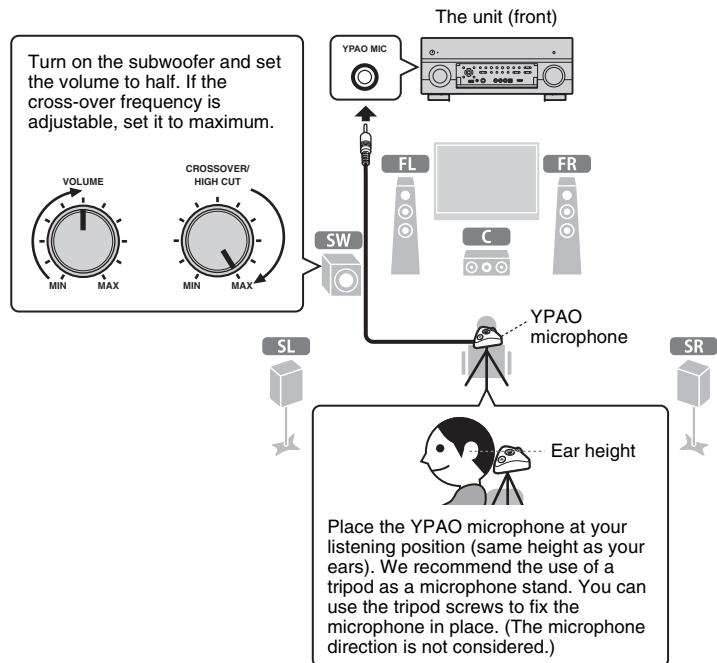
• You can select the on-screen menu language from English (default), Japanese, French, German, Spanish, Russian and Chinese. For details, refer to "Owner's Manual". In this guide, illustrations of English menu screens are used as examples.

5 Optimizing the speaker settings automatically (YPAO)

The Yamaha Parametric room Acoustic Optimizer (YPAO) function detects speaker connections, measures the distances from them to your listening position(s), and then automatically optimizes the speaker settings, such as volume balance and acoustic parameters, to suit your room.
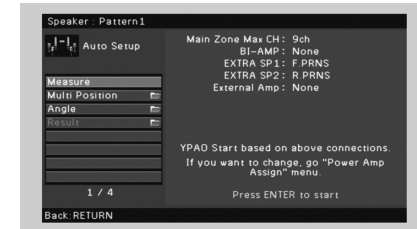
- During the measuring process, test tones are output at high volume. Ensure that the test tones do not frighten small children. Also, refrain from using this function at night when it may be a nuisance to others.
- During the measuring process, you cannot adjust the volume.
- During the measuring process, keep the room as quiet as possible.
- Do not connect headphones.
- Do not stand between the speakers and the YPAO microphone during the measurement process (about 3 minutes).
- Move to the corner of the room or leave the room.

Preparing for YPAO

The unit (front)

Turn on the subwoofer and set the volume to half. If the cross-over frequency is adjustable, set it to maximum.

VOLUME
MIN MAX

CROSSOVER/ HIGH CUT
MIN MAX

YPAO MIC

FL FR
SW
C
SL SR

YPAO microphone

Ear height

Place the YPAO microphone at your listening position (same height as your ears). We recommend the use of a tripod as a microphone stand. You can use the tripod screws to fix the microphone in place. (The microphone direction is not considered.)

Cursor keys
ENTER
RETURN

1 Connect the YPAO microphone to the YPAO MIC jack on the front panel.

The following screen appears on the TV.

Speaker : Pattern1
Auto Setup
Main Zone Max CH: 9ch
BI-AMP: None
EXTRA SP1: F.PRNS
EXTRA SP2: R.PRNS
External Amp: None
Measure
Multi Position
Angle
Result
YPAO Start based on above connections.
If you want to change, go "Power Amp Assign" menu.
1 / 4
Press ENTER to start
Back:RETURN

- To cancel the operation, disconnect the YPAO microphone before starting the measurement.

## 2 To start the measurement, use the cursor keys to select "Measure" and press ENTER.

The measurement will start in 10 seconds.

The following screen appears on the TV when the measurement finishes.

Speaker : Pattern1
Auto Setup
Measure
Result
Save/Cancel
Measurement Finished
2 / 2
100%
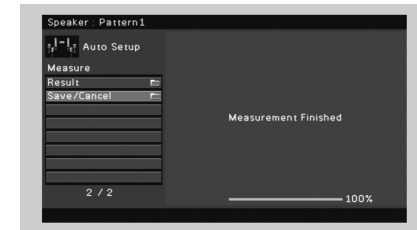
- If any error message (such as E-1) or warning message (such as W-2) appears, see "Error messages" or "Warning messages" in "Owner's Manual".
- If the warning message "W-1:Out of Phase" appears, see "If "W-1:Out of Phase" appears" (next page).

3 Use the cursor keys to select "Save/Cancel" and press ENTER.
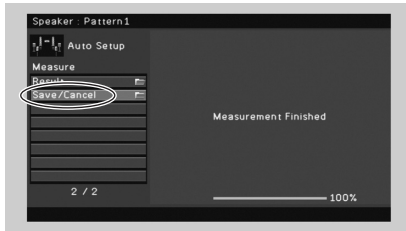
4 Use the cursor keys to select "SAVE" and press ENTER.
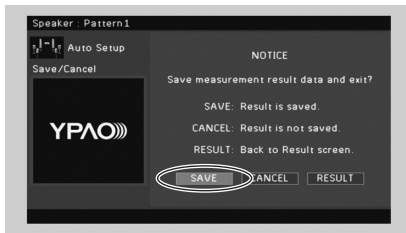
**5** Disconnect the YPAO microphone from the unit.

This completes optimization of the speaker settings.

- The YPAO microphone is sensitive to heat, so should not be placed anywhere where it could be exposed to direct sunlight or high temperatures (such as on top of AV equipment).

If "W-1:Out of Phase" appears

Follow the procedure below to check the speaker connections.

Depending on the type of speakers or room environment, this message may appear even if the speakers are connected correctly.
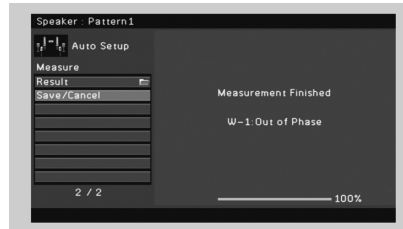
① Use the cursor keys to select "Result" and press ENTER.

② Use the cursor keys to select "Wiring".

③ Check the cable connections (+/−) of the speaker that was identified as being "Reverse" in the warning message.

If the speaker is connected correctly:

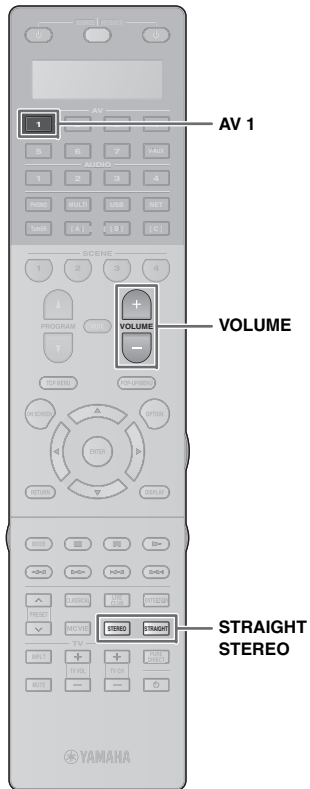You can save the current settings.

Press RETURN and proceed to step 3.

If the speaker is connected incorrectly:

Turn off the unit, reconnect the speaker cable, and then try YPAO measurement again.

6 Playing back a BD/DVD

Now let's play back a BD/DVD.

We recommend playing back multichannel audio (5.1-channel or more) to feel surround sound produced by the unit.

AV 1

VOLUME

STRAIGHT
STEREO

1 Press AV 1 to select "AV 1" as the input source.

```
AV1          -40.0
              dB
              VOLUME
A.Sel:  Auto
```

2 Start playback on the BD/DVD player.

3 Press STRAIGHT repeatedly to select "STRAIGHT".

```
STRAIGHT     -40.0
              dB
              VOLUME
```

💡
• To check if sounds are properly heard from all speakers, press STEREO repeatedly to select "9ch Stereo".

4 Press VOLUME to adjust the volume.

```
Main:Volume  -30.0
              dB
              VOLUME
||||||||||||||·········|
```

This completes the basic setup procedure.

If surround sound is not working

Sound is only being output from the front speakers during multichannel audio playback

Check the digital audio output setting on the BD/DVD player.

It may be set to 2-channel output (such as PCM).

No sound is coming from a specific speaker

See "Troubleshooting" in "Owner's Manual".

Many more features!

The unit has various other functions.

Please refer to "Owner's Manual" on the supplied CD-ROM to help you get the most out of the unit.

Connecting other playback devices

Connect audio devices (such as CD player), game consoles, camcorders, and many others.

Selecting the sound mode

Select the desired sound program (CINEMA DSP) or surround decoder suitable for movies, music, games, sports programs, and other uses.

Playing back from iPod

By using a USB cable supplied with iPod, you can enjoy iPod music on the unit.

■ **Listening to FM/AM radio**

■ **Playing back music stored on a USB storage device**

■ **Playing back the network contents**

■ **Selecting the input source and favorite settings at once**

For more information, see "What you can do with the unit".

YAMAHA CORPORATION