





marantz[®] AV Surround Receiver
SR6005

User Guide

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.

IMPOTANT 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. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. 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.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. 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.
14. 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.

VORSICHT:

Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose. Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

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.

ATTENZIONE:

Per scollegare completamente questo prodotto dalla rete di alimentazione elettrica, scollegare la spina dalla relativa presa a muro.

La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente.

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.

WAARSCHUWING:

Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken. De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

FÖRSIKTIHETSMÅTT:

Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet. Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

□ **NOTE ON USE / HINWEIS ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENSTE GEBRUIKEN / OBSERVERA ANGÅENDE ANVÄNDNINGEN**

WARNINGS	WARNHINWEISE	AVERTISSEMENTS	AVVERTENZE	ADVERTENCIAS	WAARSCHUWINGEN	VARNINGAR
<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"> • Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. • Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. • Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. • Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. • Decken Sie den Lüftungsbereich nicht ab. • Lassen Sie keine fremden Gegenstände in das Gerät kommen. • Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. • Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern. • Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden. • Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. • Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen. • Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden. • Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden. • Das Netzkabel nicht mit feuchten oder nassen Händen anfassen. • Wenn der Schalter ausgeschaltet ist (OFF-Position), ist das Gerät nicht vollständig vom Stromnetz (MAINS) abgetrennt. • Das Gerät sollte in der Nähe einer Netzsteckdose aufgestellt werden, damit es leicht an das Stromnetz angeschlossen werden kann. 	<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"> • Evitate di esporre l'unità a temperature elevate. • Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. • Maneggiate il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. • Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. • Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. • Non coprite i fori di ventilazione. • Non inserite corpi estranei all'interno dell'unità. • Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi. • Non smontate né modificate l'unità in alcun modo. • Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. • Non posizionate sull'unità fi amme libere, come ad esempio candele accese. • Prestate attenzione agli aspetti legati alla tutela dell'ambiente nello smaltimento delle batterie. • L'apparecchiatura non deve essere esposta a goccioli o spruzzi. • Non posizionate sull'unità alcun oggetto contenente liquidi, come ad esempio i vasi. • Non toccare il cavo di alimentazione con le mani bagnate. • Quando l'interruttore è nella posizione OFF, l'apparecchiatura non è completamente scollegata da MAINS. • L'apparecchio va installato in prossimità della fonte di alimentazione, in modo che quest'ultima sia facilmente accessibile. 	<ul style="list-style-type: none"> • Evite altas temperaturas. Permita 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 jarras. • 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. 	<ul style="list-style-type: none"> • Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd. • Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. • Laat geen vochtigheid, water of stof in het apparaat binnendringen. • Neem altijd het netsnoer uit het stopcontact wanneer het apparaat gedurende een lange periode niet wordt gebruikt. • De ventilatieopeningen mogen niet worden geblokkeerd. • Laat geen vreemde voorwerpen in dit apparaat vallen. • Voorkom dat insecticiden, benzene of verfvendunners met dit toestel in contact komen. • Dit toestel mag niet gedemonteerd of aangepast worden. • De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed of gordijnen. • Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat. • Houd u steeds aan de milieuvoorschriften wanneer u gebruikte batterijen wegdoet. • Stel het apparaat niet bloot aan druppels of spatten. • Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat. • Raak het netsnoer niet met natte handen aan. • Als de schakelaar op OFF staat, is het apparaat niet volledig losgekoppeld van de netspanning (MAINS). • De apparatuur wordt in de buurt van het stopcontact geïnstalleerd, zodat dit altijd gemakkelijk toegankelijk is. 	<ul style="list-style-type: none"> • Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. • Hantera nätkabeln varsamt. Håll i kabeln när den kopplas från el-uttaget. • Utsätt inte apparaten för fukt, vatten och damm. • Koppla loss nätkabeln om apparaten inte kommer att användas i lång tid. • Täpp inte till ventilationsöppningarna. • Se till att främmande föremål inte tränger in i apparaten. • Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje. • Ta inte isär apparaten och försök inte bygga om den. • Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdular eller gardiner. • Placera inte öppen eld, t.ex. tända ljus, på apparaten. • Tänk på miljöaspekterna när du bortskaffar batterier. • Apparaten får inte utsättas för vätska. • Placera inte föremål fyllda med vätska, t.ex. vaser, på apparaten. • Hantera inte nätsladden med våta händer. • Även om strömbrytaren står i det avstängda läget OFF, så är utrustningen inte helt bortkopplad från det elektriska nätet (MAINS). • Utrustningen ska vara installerad nära strömuttaget så att strömförsörjningen är lätt att tillgå.

• DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3.

Following the provisions of Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC, the EC regulation 1275/2008 and its frame work Directive 2009/125/EC for Energy-related Products (ErP).

• ÜBEREINSTIMMUNGSERKLÄRUNG

Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht: EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3.

Gemäß den Bestimmungen der Niederspannungsrichtlinie 2006/95/EG und EMV Richtlinie 2004/108/EG, der Verordnung (EG) Nr. 1275/2008 der Kommission und deren Rahmenrichtlinie 2009/125/EG zu energieverbrauchsrelevanten Produkten (ErP).

• DECLARATION DE CONFORMITE

Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants:

EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3.

Selon la directive 2006/95/EC concernant la basse tension et la directive CEM 2004/108/EC, la réglementation européenne 1275/2008 et la directive 2009/125/EC établissant un cadre de travail applicable aux produits liés à l'énergie (ErP).

• DICHIARAZIONE DI CONFORMITÀ

Dichiaro con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative: EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3.

Facendo seguito alle disposizioni della direttiva sul basso voltaggio 2006/95/EC alla direttiva EMC 2004/108/EC, alla norma EC 1275/2008 e alla relativa legge quadro 2009/125/EC in materia di prodotti alimentati ad energia (ErP).

QUESTO PRODOTTO È CONFORME

AL D.M. 28/08/95 N. 548

• DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares:

EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3.

De acuerdo con la directiva sobre baja tensión 2006/95/CE y la directiva sobre CEM 2004/108/CE, la normativa CE 1275/2008 y su directiva marco 2009/125/EC para productos relacionados con la energía (ErP).

• EENVORMIGHEIDSVERKLARING

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit product, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:

EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3.

Volgens de voorzieningen van lage spanningsrichtlijn 2006/95/EC en EMC-richtlijn 2004/108/EC, de EU-richtlijn 1275/2008 en de kaderrichtlijn 2009/125/EC voor energieverbruikende producten (ErP).

• ÖVERENSSTÄMMELSEINTYG

Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder:

EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3.

Uppfyller reglerna i lågspänningsdirektivet 2006/95/EC och

EMC-direktivet 2004/108/EC, EU-förordningen 1275/2008 och

ramverksdirektivet 2009/125/EC för energirelaterade produkter (ErP).

Marantz Europe
A division of D&M Europe B.V.
Beemdstraat 11, 5653 MA Eindhoven,
The Netherlands

A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations. When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.

HINWEIS ZUM RECYCLING:

Das Verpackungsmaterial dieses Produktes ist zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften.

Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen.

Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften.

Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive.

UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur.

Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en vigueur.

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles.

Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE.

NOTA RELATIVA AL RICICLAGGIO:

I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili. Smaltire i materiali conformemente alle normative locali sul riciclaggio.

Per lo smaltimento dell'unità, osservare le normative o le leggi locali in vigore.

Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici.

Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie.

ACERCA DEL RECICLAJE:

Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad.

Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales.

Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos.

Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas.

EEN AANTEKENING MET BETREKKING TOT DE RECYCLING:

Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften.

Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op.

Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd.

Op dit product en de meegeleverde accessoires, m.u.v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing.

OBSERVERA ANGÅENDE ÅTERVINNING:

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser.

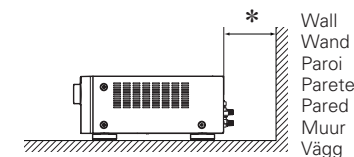
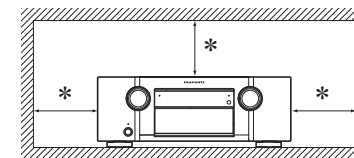
När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser. Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall.

Denna apparat och de tillbehör som levereras med den uppfyller gällande WEEE-direktiv, med undantag av batterierna.



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❑ CAUTIONS ON INSTALLATION VORSICHTSHINWEISE ZUR AUFSTELLUNG PRÉCAUTIONS D'INSTALLATION PRECAUZIONI SULL'INSTALLAZIONE EMPLAZAMIENTO DE LA INSTALACIÓN VOORZORGSMAATREGELEN BIJ DE INSTALLATIE FÖRSIKTIGHET VID INSTALLATIONEN



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

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

* Stellen Sie das Gerät nicht an einem geschlossenen Ort, wie in einem Bücherregal oder einer ähnlichen Einrichtung auf, da dies eine ausreichende Belüftung des Geräts behindern könnte.

- Empfohlen wird über 0,3 m.
- Keine anderen Gegenstände auf das Gerät stellen.

* 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 0,3 m est recommandée.
- Ne placez aucun matériel sur cet appareil.

* Per una dispersione adeguata del calore, non installare questa apparecchiatura in uno spazio ristretto, come ad esempio una libreria o simili.

- Si raccomanda una distanza superiore ai 0,3 m.
- Non posizionare alcun altro oggetto o dispositivo su questo dispositivo.

* 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 0,3 m alrededor.
- No coloque ningún otro equipo sobre la unidad.

* Plaats dit toestel niet in een kleine afgesloten ruimte, zoals een boekenkast e.d., omdat anders de warmte niet op gepaste wijze kan worden afgevoerd.

- Meer dan 0,3 m is aanbevolen.
- Plaats geen andere apparatuur op het toestel.

* För att tillförsäkra god värmeavledning får utrustningen inte installeras i instängda utrymmen, som t.ex. en bokhylla eller liknande.

- Mer än 0,3 m rekommenderas.
- Placera ingen annan utrustning ovanpå den här enheten.

АВ-РЕСИВЕР

Marantz SR6005

(РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ)



Вы приобрели устройство радиоприемное/усилительное производства компании “D&M Холдингс Инк”, Япония (“D & M Holdings Inc.”, Japan). Модель SR6005 является аудио-видео ресивером и предназначена для многоканального усиления звука в домашних аудиосистемах. Это изделие широко известно в кругах истинных ценителей высококлассного звука. Качество и безопасность подтверждены множеством тестов, проведенных как зарубежными, так и российскими испытательными лабораториями.

Изготовитель в течение 3 лет (срок службы) после выпуска данного изделия обеспечивает наличие комплектующих в целях возможности проведения ремонта и технического обслуживания, по истечении которого эксплуатация и техническое обслуживание продолжается в соответствии с действующими нормативными документами. Изделие остается безопасным для жизни, здоровья человека и окружающей среды в течение всего срока эксплуатации. Гарантийный срок - 1 год.

Информация о Российской сертификации

Но сертификата соответствия	Орган по сертификации	Нормативные документы	Наименование сертифицированной продукции	Срок действия сертификата
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Основные технические характеристики

См. в конце инструкции

ВНИМАНИЕ: Если Вы приобрели аудиоаппаратуру надлежащего качества, то, по Российским законам, она не подлежит возврату или обмену на аналогичный товар других размера, формы и т.д.

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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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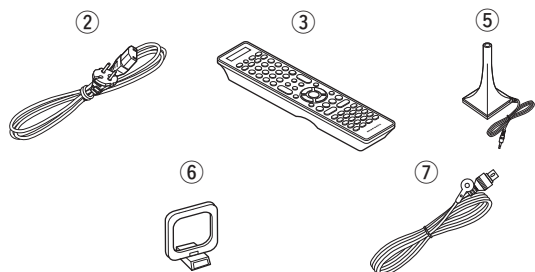
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List of preset codes	End of this manual
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Accessories

Check that the following parts are supplied with the product.

① User guide	1
② Power cord	1
③ Remote control unit (RC011SR)	1
④ R03/AAA batteries	2
⑤ Setup microphone (ACM1H)	1
⑥ AM loop antenna	1
⑦ FM indoor antenna	1



About this manual

❑ Operation buttons

The operations described in this guide are based mainly on remote control operation.

❑ 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

Fully Discrete, identical quality and power for all 7 channels (110 W x 7ch, 8 Ω)

The unit is equipped with a power amplifier that reproduces high-fidelity sound in surround mode with equal quality and power for all channels, true to the original sound.

The power amplifier circuit adopts a discrete-circuit configuration that achieves high-quality surround sound reproduction.

Supports HDMI 1.4a with 3D, ARC, Deep Color, x.v.Color, Auto Lipsync and HDMI control function

This unit can output 3D video signals input from a Blu-ray Disc player to a TV that supports a 3D system. This unit also supports the ARC (Audio Return Channel) function, which reproduces TV sound with this unit via an HDMI cable used for connecting the unit and a TV*.

* The TV should support the ARC function.

6-HDMI inputs and 1-output

The unit is equipped with 6 HDMI input connectors for connecting devices with HDMI connectors, such as a Blu-ray Disc player, game machine, HD video camera, etc.

One of the 6 input connectors of this unit is provided on the front panel so that you can easily connect and display images and videos recorded in a digital still camera or digital video camera.

High definition audio support

The unit is equipped with a decoder which supports high-quality digital audio format for Blu-ray Disc players such as Dolby TrueHD, DTS-HD Master Audio, etc.

Dolby Pro Logic IIz

The unit is provided with a Dolby Pro Logic IIz decoder. When you play back the sound in Dolby Pro Logic IIz playback with front height speakers connected to the unit, you can enjoy playback sound with rich spacial expression.

Auto setup function

The unit is provided with an "Auto setup function" which automatically makes speaker settings best suited for the listening environment. The sound from the speakers is picked up with the supplied microphone. Reflecting sound and audio characteristics of speakers are measured, and settings for an optimum sound field are automatically made.

Easy to use, Graphical User Interface

This unit is equipped with an easy to see "Graphical User Interface" that uses menu displays and levels. The use of level displays increases operability of the unit.

All sources are up-scaled to 1080p

The unit is provided with an HDMI video up-scaling function that converts an analog video signal input to the unit to a 1080p (HD resolution) signal and supplies it to a TV via the HDMI connector. This enables the unit and a TV connected with a single HDMI cable and any video source to be reproduced precisely with HD level of quality.

Direct play for iPod® and iPhone® via USB

Music data from an iPod can be played back if you connect the USB cable supplied with the iPod via the USB port of this unit, and also an iPod can be controlled with the remote control unit for this unit.

M-XPort (Marantz-eXtension Port)

This unit is equipped with the M-XPort, a Marantz original innovation that provides outstanding expandability. You can connect the Wireless Receiver RX101 (sold separately) to this port.

Features

Speaker terminal for front height channel

The unit is equipped with dedicated front height channel speaker terminals on the rear panel. You can enjoy 7.1-channel playback using the front height channel and 7.1-channel playback using the surround back channel, without having to reconnect the speakers.

Other features

- Dolby Virtual Speaker (👉 page 33)
- Dolby Headphone (👉 page 33)
- DTS Neural Surround (👉 page 32)

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**

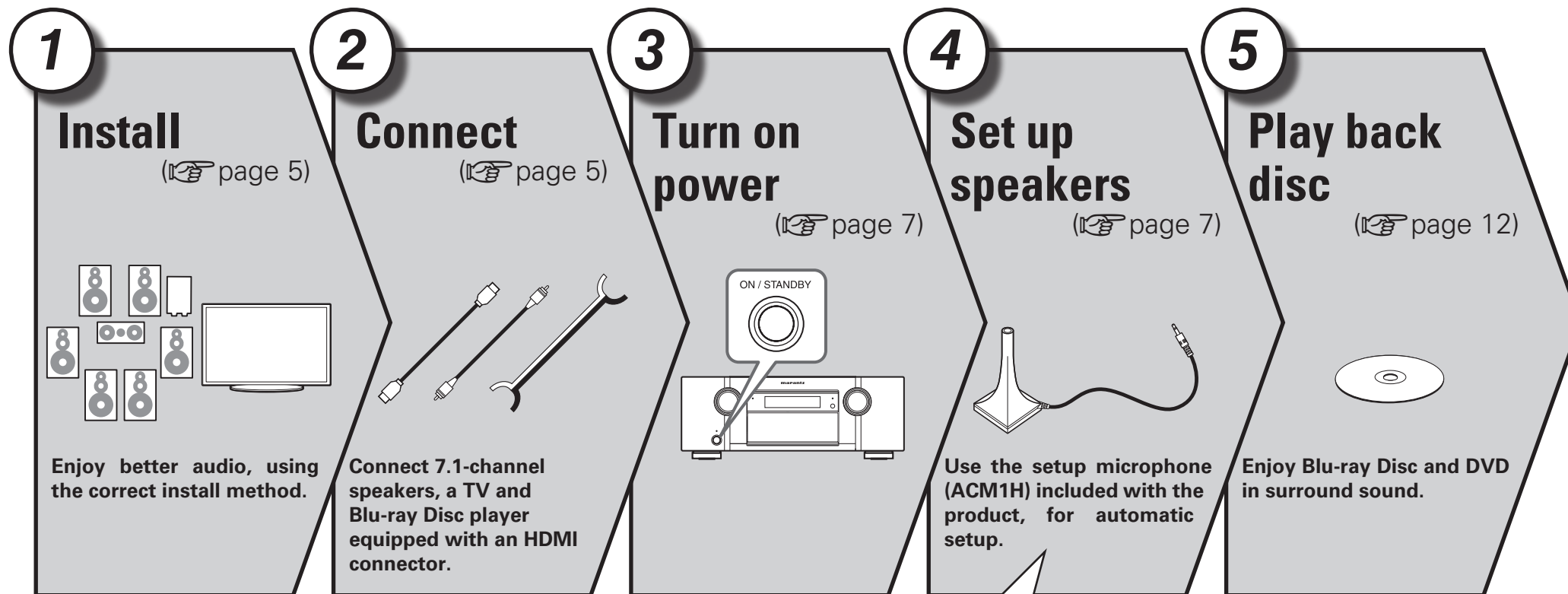
- Wipe the cabinet and control panel clean with a soft cloth.
- Follow the instructions when using a chemical cleaner.
- Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should therefore not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

Simple version (Simple setup guide)

Here, we explain the entire setup procedure, from unboxing the unit to using it in a home theater.

The "Simple version" section provides the speaker installation, connection, and setup methods for the 7.1-channel system with surround back speakers. For the installing, connecting, and setup methods of speakers other than the 7.1-channel system (with surround back speakers), see page 35.

- ❑ Before connecting the unit, turn off the power to all devices.
- ❑ For operation of the connected devices, refer to the user manuals for each device.



Set up speakers (Audyssey® Auto Setup)

STEP 1
Preparation

STEP 2
Speaker
Detection

STEP 3
Measurement

STEP 4
Calculation

STEP 5
Check

STEP 6
Store

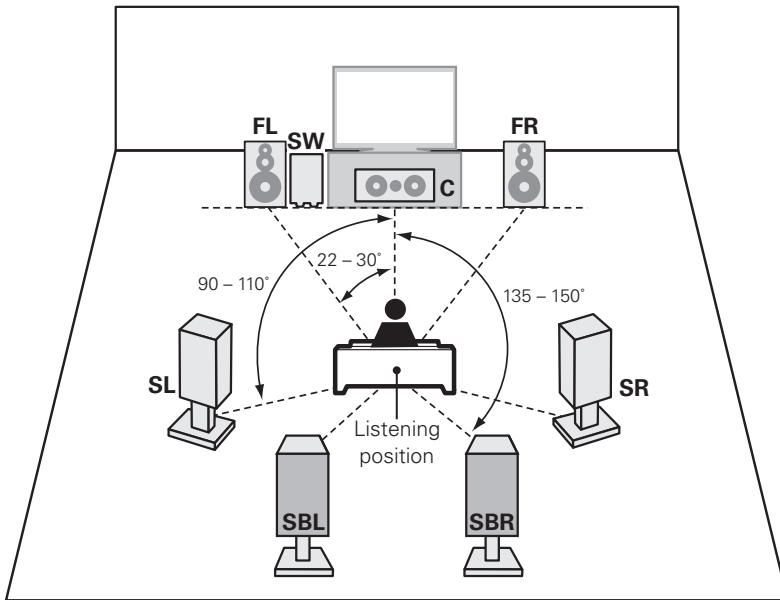
Finish

1 Install



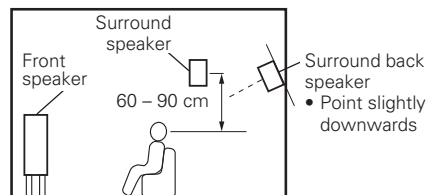
This unit can perform 2.0/2.1 to 7.1-channel surround playback. This page provides the speaker installation procedure for the 7.1-channel playback using surround back speakers as an example.

The default setting is 7.1-channel. You can also perform 5.1-channel playback. To perform 5.1-channel playback, connect 5.1-channel speakers only. Use Audyssey Auto Setup function of this unit to automatically detect the number of connected speakers and perform optimal settings for the speakers to be used.



- FL** Front speaker (L)
- FR** Front speaker (R)
- C** Center speaker
- SW** Subwoofer
- SL** Surround speaker (L)
- SR** Surround speaker (R)
- SBL** Surround back speaker (L)
- SBR** Surround back speaker (R)

- Install the surround speakers in a position 60 to 90 cm higher than ear level.



[Viewed from the side]

2 Connect



Speakers

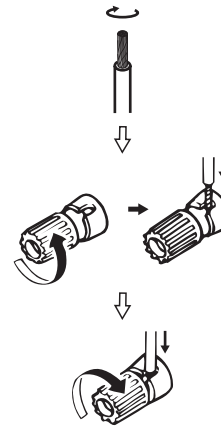
Carefully check the left (L) and right (R) channels and + (red) and - (black) polarities on the speakers being connected to the this unit, and be sure to interconnect the channels and polarities correctly.

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 89 "Protection Circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.
- Use speakers with the speaker impedances shown below.

Connecting the speaker cables

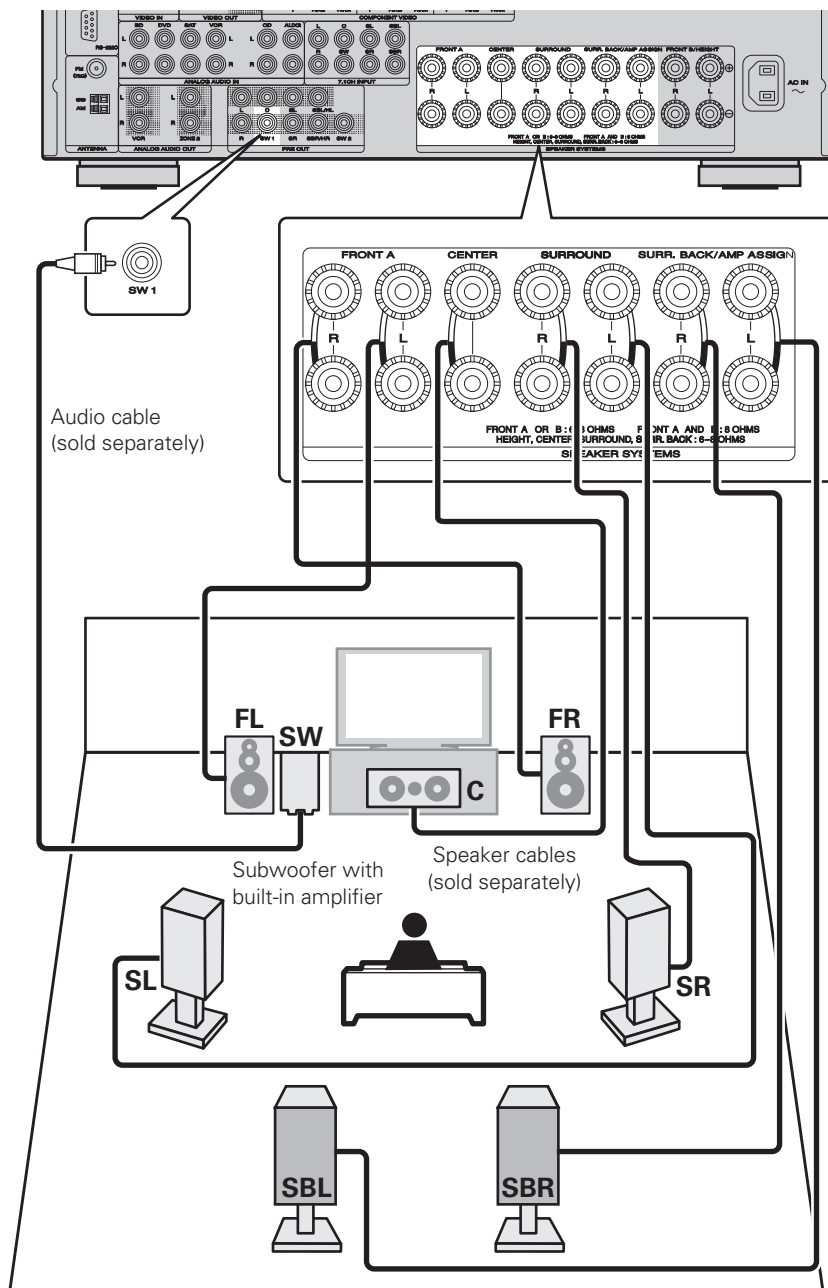
Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.



Speaker terminals	Speaker impedance
FRONT A	6 - 8 Ω
FRONT A + FRONT B	8 Ω
CENTER	6 - 8 Ω
SURROUND	
SURR. BACK / AMP ASSIGN	
FRONT B/HEIGHT	

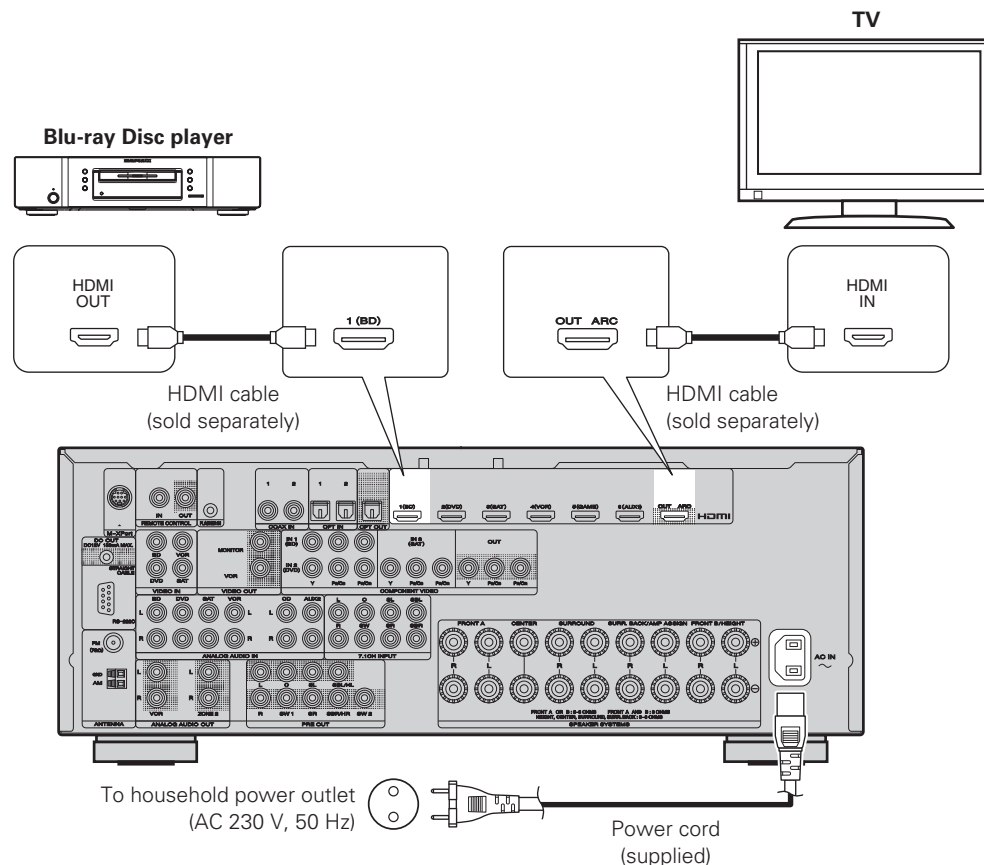
The "Simple version" section provides the speaker installation, connection, and setup methods for the 7.1-channel system with surround back speakers. For the installing, connecting, and setup methods of speakers other than the 7.1-channel system (with surround back speakers), see page 35.

Connect



Blu-ray Disc player and TV

Use only an HDMI (High Definition Multimedia Interface) cable that bears the HDMI logo (a genuine HDMI product). Using a cable without the HDMI logo (a non-genuine HDMI product) may result in abnormal playback. When outputting Deep Color or 1080p, etc., we recommend you use a "High Speed HDMI cable" or a "High Speed HDMI cable with Ethernet" for enhanced high-quality playback.



NOTE

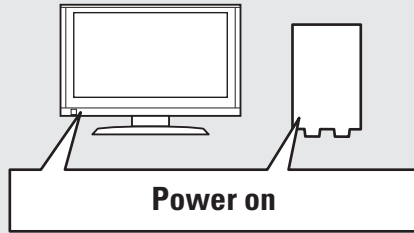
- Do not plug in the power cord until all connections have been completed.
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

The "Simple version" section provides the speaker installation, connection, and setup methods for the 7.1-channel system with surround back speakers. For the installing, connecting, and setup methods of speakers other than the 7.1-channel system (with surround back speakers), see page 35.

3 Turn on power

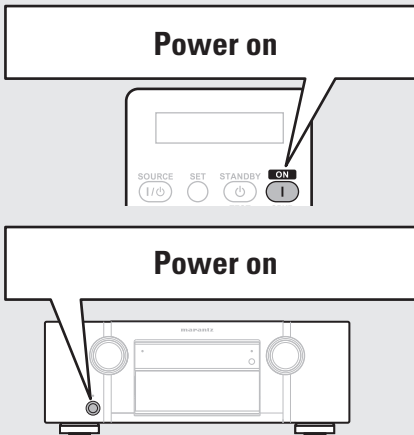


- 1** Turn on the TV and subwoofer power.



- 2** Change the TV input to the input of this unit.

- 3** Press **ON** to turn on power to the unit.
The power indicator switches off, and power is supplied to the unit.



NOTE

Before you use the remote control unit for the first time, be sure to insert the batteries (☞ page 81 "Inserting the batteries").

4 Set up speakers (Audyssey® Auto Setup)



The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically. This is called "Audyssey Auto Setup".

To perform measurement, place the setup microphone in multiple locations all around the listening area. For best results, we recommend you measure in six positions, as shown in the illustration (up to six positions).

- When performing Audyssey Auto Setup, MultEQ®/Dynamic EQ®/Dynamic Volume® functions become active (☞ page 57, 58).
- To set up the speakers manually, use "Speaker Setup" (☞ page 61) on the menu.

NOTE

- Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows, silence cell phones, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices as measurements may be affected by these sounds.
- Cell phones should be placed away from all audio electronics during the measurement process as Radio Frequency Interference (RFI) may cause measurement disruptions (even if the cell phone is not in use).
- Do not unplug the setup microphone from the main unit until Audyssey Auto Setup is completed.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Loud test sounds may be played during Audyssey Auto setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume.
- Operating **VOLUME +, -** during the measurements will cancel the measurements.
- Measurement cannot be performed when headphones are connected.

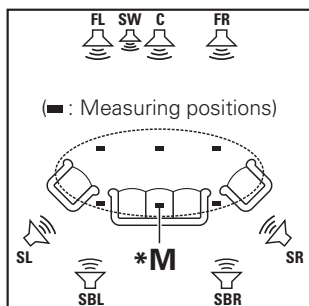


Set up speakers (Audyssey® Auto Setup)

About setup microphone placement

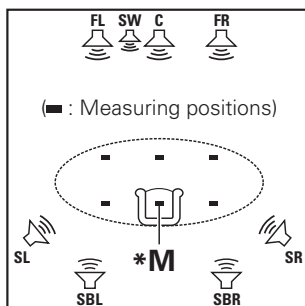
- Measurements are performed by placing the setup microphone successively at multiple positions throughout the entire listening area, as shown in **[Example ①]**. For best results, we recommend you measure in six positions, as shown in the illustration (up to six positions).
- Even if the listening environment is small as shown in **[Example ②]**, measuring at multiple points throughout the listening environment results in more effective correction.

[Example ①]



- FL** Front speaker (L)
- FR** Front speaker (R)
- C** Center speaker
- SW** Subwoofer

[Example ②]



- SL** Surround speaker (L)
- SR** Surround speaker (R)
- SBL** Surround back speaker (L)
- SBR** Surround back speaker (R)

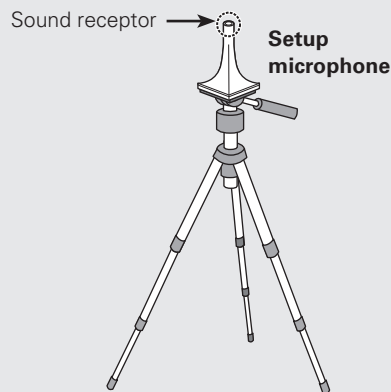
About the main listening position (*M)

The main listening position is the position where listeners would normally sit or where one would normally sit alone within the listening environment. Before starting Audyssey Auto Setup, place the setup microphone in the main listening position. Audyssey MultEQ® uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

1 Prepare the setup microphone

Mount the setup microphone on a tripod or stand and place it in the main listening position.

When placing the setup microphone, adjust the height of the sound receptor to the level of the listener's ear.



NOTE

- Do not hold the setup microphone in your hand during measurements.
- Avoid placing the setup microphone close to a seat back or wall as sound reflections may give inaccurate results.

2 Set up the subwoofer

If using a subwoofer capable of the following adjustments, set up the subwoofer as shown below.

- When using a subwoofer with a direct mode**
Set the direct mode to "On" and disable the volume adjustment and crossover frequency setting.
- When using a subwoofer without a direct mode**
Make the following settings:
 - **Volume** : "12 o'clock position"
 - **Crossover frequency** : "Maximum/Highest Frequency"
 - **Low pass filter** : "Off"
 - **Standby mode** : "Off"

NOTE

When you use two subwoofers, please adjust the subwoofer volume controls individually so that each subwoofer level is as close as possible to 75 dB using the test tone (page 63) before Audyssey Auto Setup.

3 Set up the remote control unit

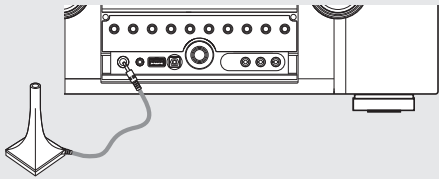
- Set up the operation mode**
Press AMP to set the remote control unit to amplifier operation mode.



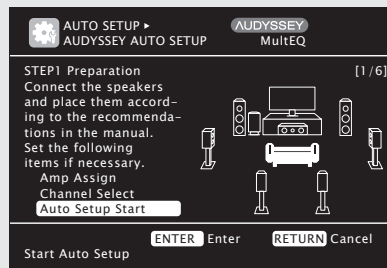
Press AMP

STEP 1 Preparation

4 Connect the setup microphone to the SETUP MIC jack of this unit.



When the setup microphone is connected, the following screen is displayed.



This screen provides the method for setting up 7.1-channel playback using surround back speakers. For the method of setting up speakers other than the 7.1-channel system, select "Amp Assign" and perform step 3 and 4 of "Set up "Amp Assign"" (page 39).

If unused channels are set with "Channel Select", measuring time can be shortened. For setting, perform steps 5 to 9 of "Set up "Channel Select"" (page 39).

5 Use Δ ∇ to select "Auto Setup Start" and then press ENTER.

STEP 2 Speaker Detection

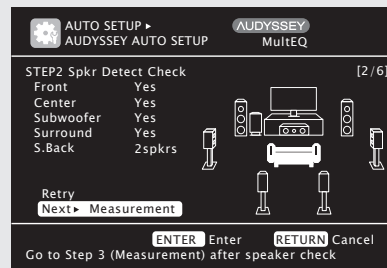
- In STEP 2, you will perform measurements at the main listening position.
- This step automatically checks the speaker configuration and speaker size, and calculates the channel level, distance, and crossover frequency. It also corrects distortion in the listening area.

6 Select "Measure" and then press ENTER.

When measuring begins, a test tone is output from each speaker.

- Measurement requires several minutes.

7 The detected speakers are displayed.



NOTE

If a connected speaker is not displayed, the speaker may not be connected correctly. Check the speaker connection.

8 Use Δ ∇ to select "Next ► Measurement" and then press ENTER.

NOTE

If "Caution" is displayed:

Go to "Error messages" (page 11), check any related items, and perform the necessary procedures.

If the problem is resolved, return and restart "Audyssey Auto Setup".

When performing Audyssey Auto Setup over again

Press Δ ∇ to select "Retry", and then press ENTER.

When measuring has stopped

Press RETURN, to the "Cancel Auto Setup?" prompt is displayed.

Press \triangleleft to select "Yes", then press ENTER.

Setting up the speakers again

Repeat the operation from step 4 of

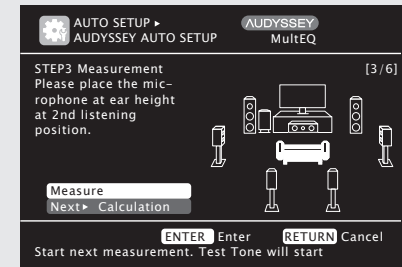
STEP1 Preparation ►.

STEP 3 Measurement

- In STEP 2, you will perform measurements at multiple positions (two to six positions) other than the main listening position.
- You can achieve a more effective correction of distortion within the listening area by performing measurements at multiple positions.

9 Move the setup microphone to position 2, use Δ ∇ to select "Measure", and then press ENTER.

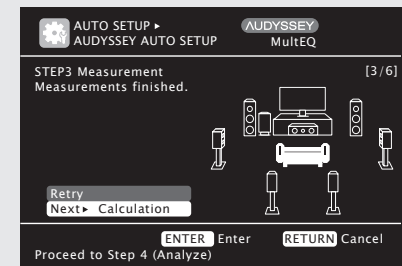
The measurement of the second position starts. Measurements can be made in up to six positions.



If you want to omit measurements from the next position onward, select "Next ► Calculation". (Go to **STEP4 Calculation** ►)

10 Repeat step 9, measuring positions 3 to 6.

When measurement of position 6 is completed, a "Measurements finished." message is displayed.



Remote control operation buttons



Move the cursor (Up/Down/Left/Right)



ENTER Confirm the setting



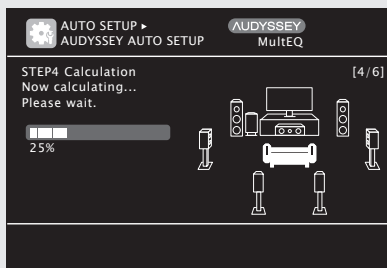
RETURN Return to previous menu

Set up speakers (Audyssey® Auto Setup)

STEP 4 Calculation

11 On the **STEP3** screen, use \triangle / ∇ to select “Next \blacktriangleright Calculation”, and then press **ENTER**.

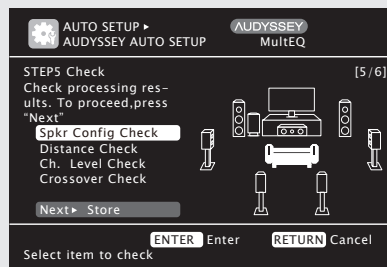
Measuring results are analyzed, and the frequency response of each speaker in the listening room is determined.



- Analysis takes several minutes to complete. The time required for this analysis depends on the number of speakers connected. The more connected speakers there are, the longer it takes to perform analysis.

STEP 5 Check

12 Use \triangle / ∇ to select the item you want to check, and then press **ENTER**.



- Subwoofers may measure a greater reported distance than the actual distance due to added electrical delay common in subwoofers.
- If you want to check another item, press **RETURN**.

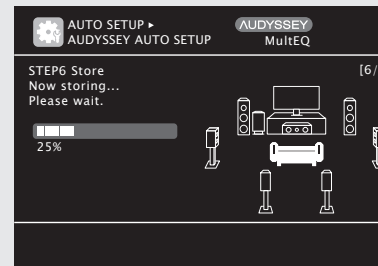
13 Use \triangle / ∇ to select “Next \blacktriangleright Store” and then press **ENTER**.

NOTE

- If the result differs from the actual connection status, or if “Caution!” is displayed, see “Error messages” (page 11). Then carry out Audyssey Auto Setup again.
- If the result still differs from the actual connection status after remeasurement or the error message still appears, it is possible that the speakers are not connected properly. Turn this unit off, check the speaker connections and repeat the measurement process from the beginning.
- If you change speaker positions or orientation, perform Audyssey Auto Setup again to find the optimal equalizer settings.

STEP 6 Store

14 Select “Store” and then press **ENTER**. Save the measurement results.



- Saving the results requires about 10 seconds.
- If the measuring results are not to be saved, press **RETURN**. A message “Cancel Auto Setup?” will be displayed. Press \triangleleft then select “Yes”. All the measured Audyssey Auto Setup data will be erased.

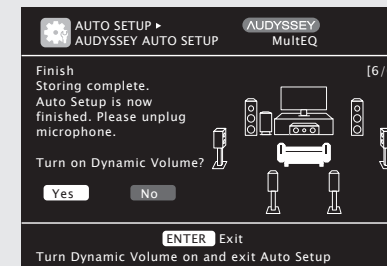
NOTE

During saving of measurement results, be sure not to turn off the power.

Finish

15 Unplug the setup microphone from the unit’s SETUP MIC jack.

16 Set Dynamic Volume®.



- For details of Dynamic Volume settings, see page 58.
- When turning Dynamic Volume on**
Use \triangleleft to select “Yes”, and then press **ENTER**.
• The unit automatically enters “Evening” mode.
- When turning Dynamic Volume off**
Use \blacktriangleright to select “No”, and then press **ENTER**.

NOTE

After performing Audyssey Auto Setup, do not change the speaker connections or subwoofer volume. In event of a change, perform Audyssey Auto Setup again.

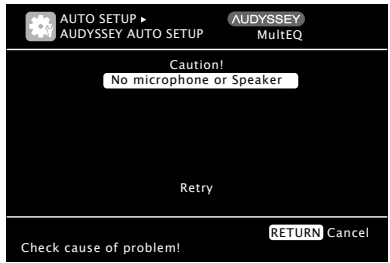

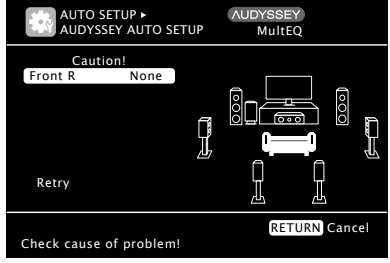
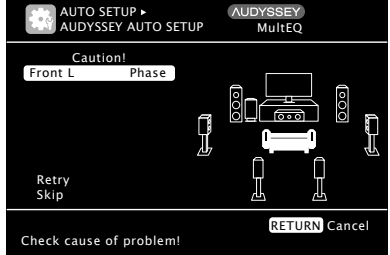


Error messages

An error message is displayed if Audyssey® Auto Setup could not be completed due to speaker placement, the measurement environment, etc. If this happens, check the relevant items, be sure to take the necessary measures, then perform Audyssey Auto Setup over again.

NOTE

Be sure to turn off the power before checking speaker connections.

Examples	Error details	Measures
	<ul style="list-style-type: none"> The connected setup microphone is broken, or a device other than the supplied setup microphone is connected. Not all speakers could be detected. The front L speaker was not properly detected. 	<ul style="list-style-type: none"> Connect the included setup microphone to the SETUP MIC jack of this unit. Check the speaker connections.
	<ul style="list-style-type: none"> There is too much noise in the room for accurate measurements to be made. Speaker or subwoofer sound is too low for accurate measurements to be made. 	<ul style="list-style-type: none"> Either turn off any device generating noise or move it away. Perform again when the surroundings are quieter. Check the speaker installation and the direction in which the speakers are facing. Adjust the subwoofer's volume.
	<ul style="list-style-type: none"> The displayed speaker could not be detected. 	<ul style="list-style-type: none"> Check the connections of the displayed speaker.
	<ul style="list-style-type: none"> The displayed is connected with the polarities reversed. 	<ul style="list-style-type: none"> Check the polarities of the displayed speaker. For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure the connection is correct, press $\Delta \nabla$ to select "Skip", then press ENTER.

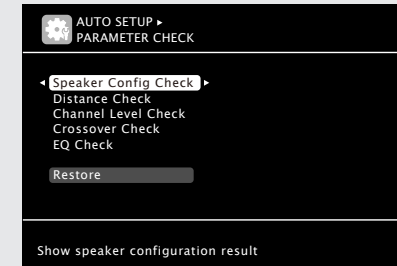
Parameter Check

This function enables you to check the measurement results and equalizer characteristics after Audyssey Auto Setup.

1 Use $\Delta \nabla$ to select "Parameter Check" and then press **ENTER** or \triangleright .

2 Use $\Delta \nabla$ to select the item you want to check, then press **ENTER** or \triangleright .

Measurement results for each speaker are displayed.



Speaker Config. Check Check the speaker configuration.

Distance Check Check the distance.

Channel Level Check Check the channel level.

Crossover Check Check the crossover frequency.

EQ Check Check the equalizer.

- If "EQ Check" is selected in step 2, press $\Delta \nabla$ to select equalizing curve ("Audyssey" or "Audyssey Flat") to be checked. Use $\triangleleft \triangleright$ to switch the display between the different speakers.

3 Press **RETURN**.

The confirmation screen reappears. Repeat steps 2.

Retrieving Audyssey Auto Setup settings

If you set "Restore" to "Yes", you can return to Audyssey Auto Setup measurement result (value calculated at the start by MultEQ®) even when you have changed each setting manually.

Remote control operation buttons



Move the cursor (Up/Down/Left/Right)



Confirm the setting

RETURN



Return to previous menu

5 Play back disc



1 Press **BD** two times in a row to switch an input source for a player used for playback.

2 Play the component connected to this unit.

Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand.

3 Adjust the sound volume.

VOLUME + Volume up
VOLUME - Volume down
MUTE Muting



4 Set the listening mode.

Set the listening mode according to the playback contents (cinema, music, etc.) or according to your liking (see page 31 "Selecting a listening mode (Surround mode)").

When power is switched to standby

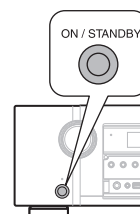
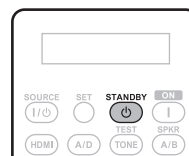
Press **STANDBY**.

[Power indicator status in standby mode]

- Normal standby : Red
- When "HDMI Control" is set to "ON" : Orange



You can also switch the power to standby by pressing **ON/STANDBY** on the main unit.






NOTE



















During power standby, a minimal amount of power is consumed. To totally cut off the power, remove the power cord from the power outlet.

Basic version

Here, we explain the connections and basic operation methods for this unit.

- **Connections**  **page 14**
- **Playback (Basic operation)**  **page 23**
- **Selecting a listening mode (Surround mode)**  **page 31**

Refer to the pages indicated below for information on connecting and playing back the various media and external devices.

Audio and Video	Connection	Playback
TV	 page 16, 17	–
Blu-ray Disc player	 page 16, 17	 page 24
DVD player	 page 16, 17	 page 24
Video cassette recorder	 page 16, 19	–
Set-top box (Satellite tuner or cable TV)	 page 16, 18	–
Game console	 page 16	–
Digital camcorder	 page 19	–
Audio	Connection	Playback
iPod®	 page 19	 page 25
USB memory device	 page 19	 page 26
CD player	 page 20	 page 24
Radio	 page 20	 page 28
Wireless receiver (RX101)	 page 21	–

For speaker connections, see page 5.

Connections

Important information

- Make connections as follows before using this unit. Select an appropriate connection type according to the components to be connected.
- You may need to make some settings on this unit depending on the connection method. Refer to each description for more information.
- Select the cables (sold separately) according to the components being connected.

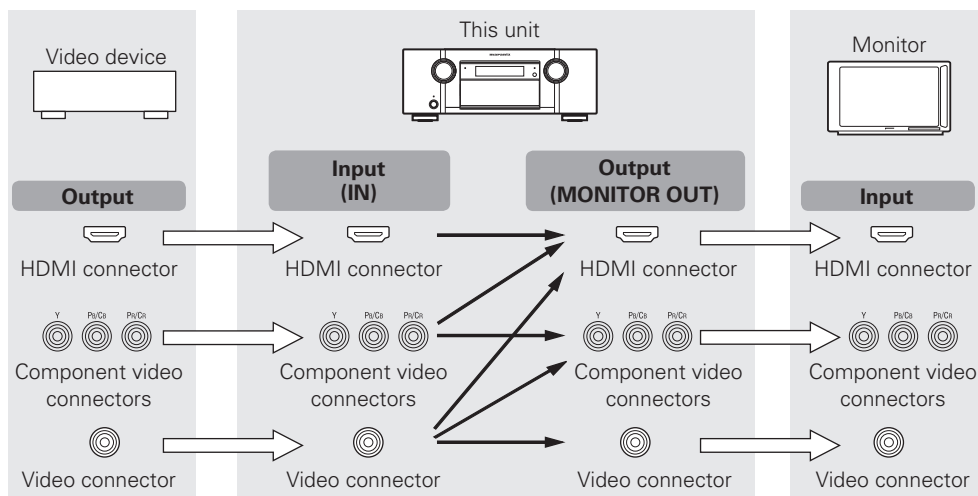
NOTE

- 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.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with connection cables. Doing so can result in noise.

Converting input video signals for output (Video conversion function)

This unit is equipped with three types of video input connectors (HDMI, Component video and video) and three types of video output connectors (HDMI, Component video and video). Use the connectors corresponding to the components to be connected. This function automatically converts various formats of video signals input to this unit into the formats used to output the video signals from this unit to a monitor.

[Flow of video signals for MAIN ZONE]



in Set as Necessary

- Set when not using the video conversion function.
- **"Video Convert"** (🔗 page 53)
- Set when changing the resolution of the video signal.
- **"Resolution"** (🔗 page 54)



- The video conversion function supports the NTSC, PAL, SECAM, NTSC 4.43, PAL-N, PAL-M and PAL-60 formats.
- The resolution of the video signal input to this unit's HDMI connector is the one set at "Resolution" (🔗 page 54). (1080p HDMI signals and 1080p component signals are output at 1080p, regardless of the setting.)
- Resolutions of HDMI-compatible TVs can be checked at "HDMI Monitor Information" (🔗 page 68).

NOTE

- HDMI signals cannot be converted into analog signals.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.
- Component video input signals cannot be converted into Video format.
- A menu is output via the HDMI connector or component video connector.

Examples of screen display

- Menu screen
- Status display screen
When the input source is switched
When the volume is adjusted



Status display: The operating status appears briefly on the screen when the input source is switched or the volume is changed.

NOTE

- If you operate the menu while playing back 3D video content, the playback video is replaced by the menu screen. The playback video is not displayed behind the menu screen.
- This unit does not show the status display while playing back 3D video content.

Connecting an HDMI-compatible device

You can connect up to six HDMI-compatible devices to the unit.

HDMI function

This unit supports the following HDMI functions:

- 3D
- Deep Color (🔗 page 88)
- Auto Lip Sync (🔗 page 64, 88)
- x.v.Color, sYCC601 color, Adobe RGB color, Adobe YCC601 color (🔗 page 88, 89)
- High definition digital audio format
- ARC (Audio Return Channel)
- Content Type
- CEC (HDMI control)

Copyright protection system

In order to play back digital video and audio such as BD-Video or DVD-Video via HDMI connection, both this unit and TV or the player need to support the copyright protection system known as HDCP (High-bandwidth Digital Content Protection System). HDCP is copyright protection technology comprised of data encryption and authentication of the connected AV device. This unit supports HDCP.

- If a device that does not support HDCP is connected, video and audio are not output correctly. Read the user guide of your television or player for more information.

About HDMI cables

- When a device supporting Deep Color signal transfer is connected, use a cable compatible “High Speed HDMI cable” or “High Speed HDMI cable with Ethernet”.
- When the ARC function is used, connect a device with a “Standard HDMI cable with Ethernet” or “High Speed HDMI cable with Ethernet” for HDMI 1.4a.

HDMI control function (🔗 page 42)

This function allows you to operate external devices from the receiver and operate the receiver from external devices.

NOTE

- The HDMI control function may not work depending on the device it is connected to and its settings.
- You cannot operate a TV or Blu-ray Disc player/DVD player that is not compatible with the HDMI control function.

About 3D function

This unit supports input and output of 3D (3 dimensional) video signals of the HDMI 1.4a standards. For playing the 3D video content, a player, and a TV that support the 3D function of the HDMI 1.4a standards are required in addition to this unit.

NOTE

- If you operate the menu while playing back 3D video content, the playback video is replaced by the menu screen. The playback video is not displayed behind the menu screen.
- This unit does not show the status display while playing back 3D video content.

About ARC (Audio Return Channel) function

The Audio Return Channel in HDMI 1.4a enables a TV, via a single HDMI cable, to send audio data “upstream” to this unit.

NOTE

- To enable the ARC function, set “HDMI Control” to “ON” (🔗 page 64).
- When connecting a TV that does not support the ARC function, a separate connection using an audio cable is required. In this case, refer to “Connecting a TV” (🔗 page 17) for the connection method.

About Content Type

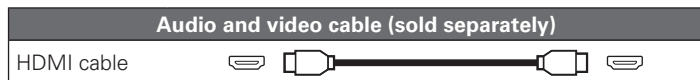
The HDMI specification version 1.4a enables simple, automated picture setting selection with no user intervention.

NOTE

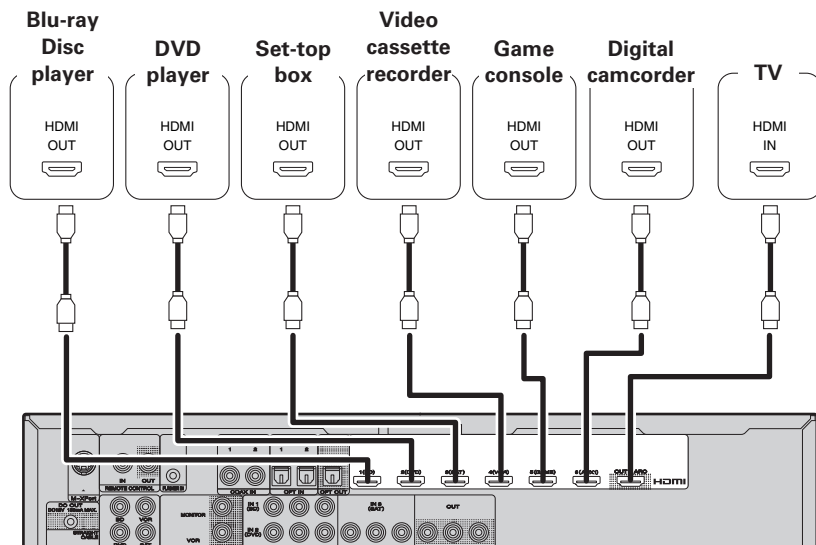
To enable the Content Type, set “Video Mode” to “Auto” (🔗 page 53).

Connecting an HDMI-compatible device

Cables used for connections



- This interface allows transfer of digital video signals and digital audio signals over a single HDMI cable.



- When this unit is connected to other devices with HDMI cables, connect this unit and TV also with an HDMI cable.
- When connecting a device that supports Deep Color transmission, please use a "High Speed HDMI cable" or "High Speed HDMI cable with Ethernet".
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the Blu-ray Disc/DVD player's resolution to a resolution with which the monitor is compatible.
- When this unit and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.

NOTE

The audio signal from the HDMI output connector (sampling frequency, number of channels, etc.) may be limited by the HDMI audio specifications of the connected device regarding permissible inputs.

Connecting to a device equipped with a DVI-D connector

When an HDMI/DVI conversion cable (sold separately) is used, the HDMI video signals are converted to DVI signals, allowing connection to a device equipped with a DVI-D connector.

NOTE

- No sound is output when connected to a device equipped with a DVI-D connector. Make separate audio connections.
- Signals cannot be output to DVI-D devices that do not support HDCP.
- Depending on the combination of devices, the video signals may not be output.

Settings related to HDMI connections

Set as necessary. For details, see the respective reference pages.

Input Assign (page 52)

Set this to change the HDMI input connector to which the input source is assigned.

HDMI Setup (page 64)

Make settings for HDMI video/audio output.

- RGB Range
- Auto Lip Sync
- HDMI Audio Out
- HDMI Control
- Standby Source
- Power Off Control

NOTE

The audio signals output from the HDMI connectors are only the HDMI input signals.

Connecting a TV

- Select the connector to use and connect the device.
- For video connections, see “Converting input video signals for output (Video conversion function)” (page 14).
- For instructions on HDMI connections, see “Connecting an HDMI-compatible device” (page 15).



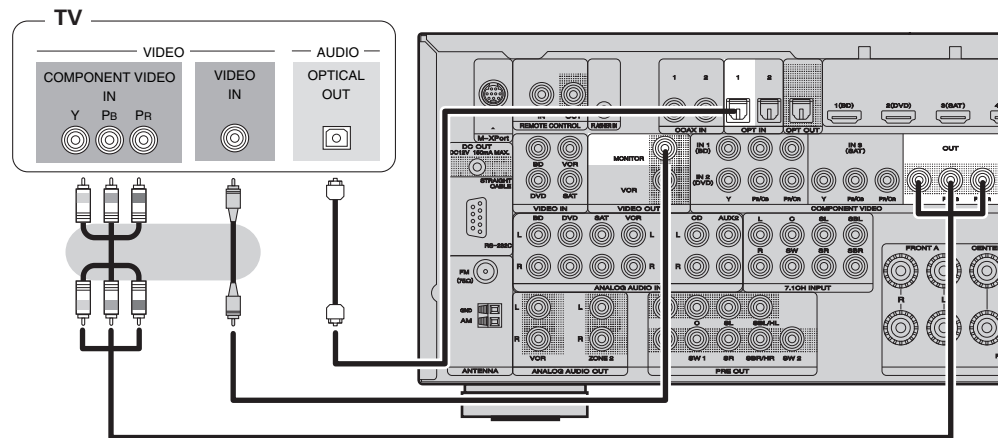
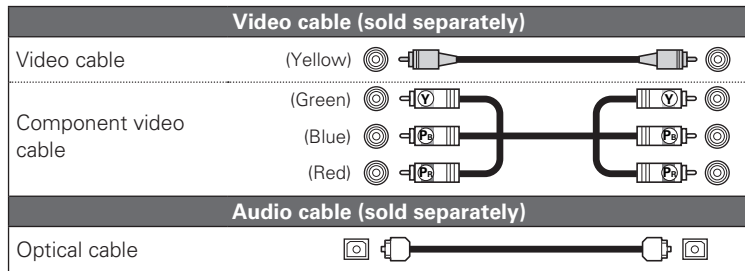
To listen to TV audio through this device, use the optical digital connection.

NOTE

This connection is not required when a TV compatible with the ARC function (Audio Return Channel (HDMI 1.4a standard function) is connected to this unit via an HDMI connection.

For details, see “About ARC (Audio Return Channel) function” (page 15) or refer to the instruction manual for your TV.

Cables used for connections



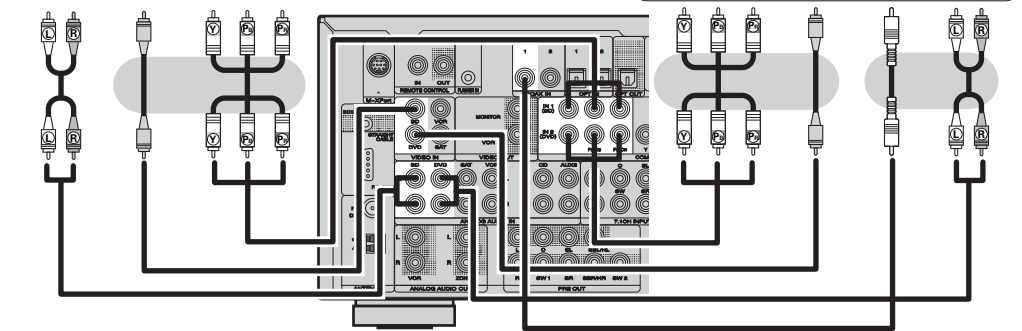
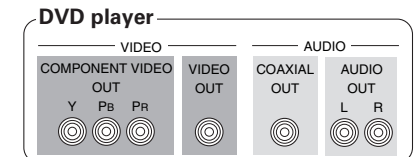
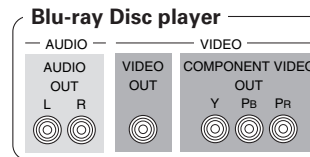
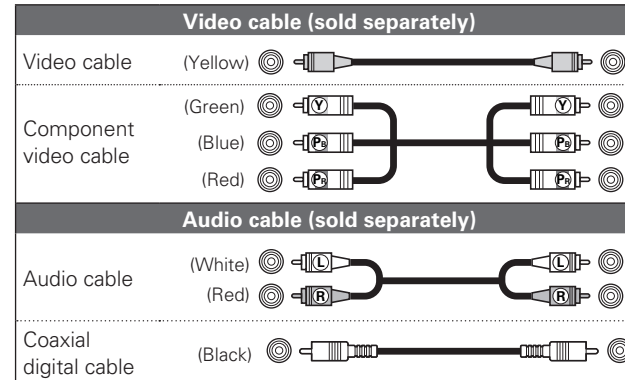
in Set as Necessary

Set this to change the digital input connector to which the input source is assigned.
“Input Assign” (page 52)

Connecting a Blu-ray Disc player / DVD player

- You can enjoy video and audio from a Blu-ray Disc or DVD.
- Select the connector to use and connect the device.
- For instructions on HDMI connections, see “Connecting an HDMI-compatible device” (page 15).

Cables used for connections



in Set as Necessary

Set this to change the digital input connector or component video input connector to which the input source is assigned.

“Input Assign” (page 52)

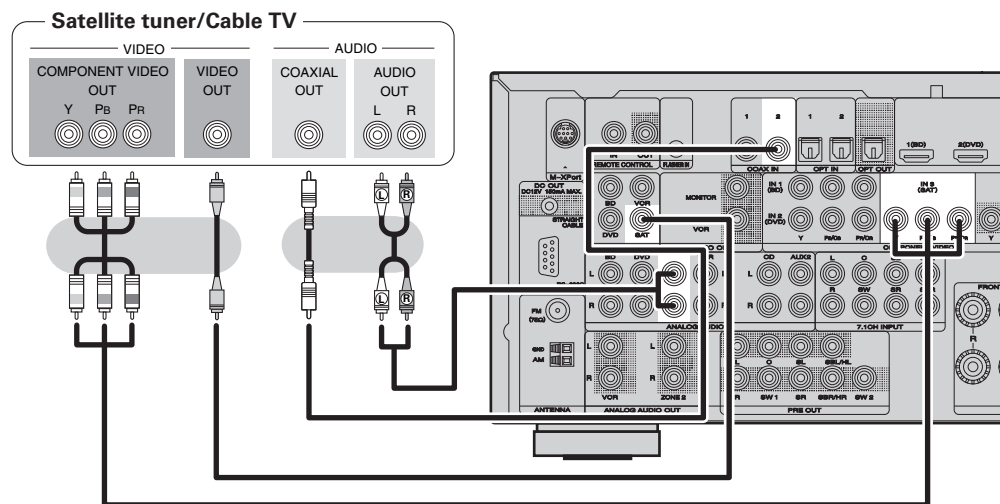
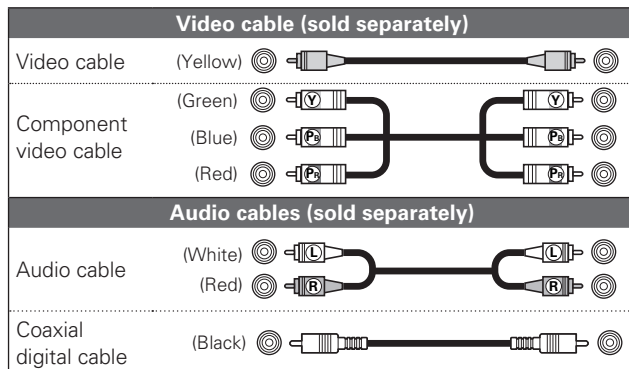


For HD audio (Dolby TrueHD, DTS-HD, Dolby Digital Plus and DTS Express) playback, connect with HDMI (page 15 “Connecting an HDMI-compatible device”).

Connecting a set-top box (Satellite tuner/cable TV)

- You can watch satellite or cable TV.
- Select the connector to use and connect the device.
- For instructions on HDMI connections, see “Connecting an HDMI-compatible device” (📖 page 15).

Cables used for connections



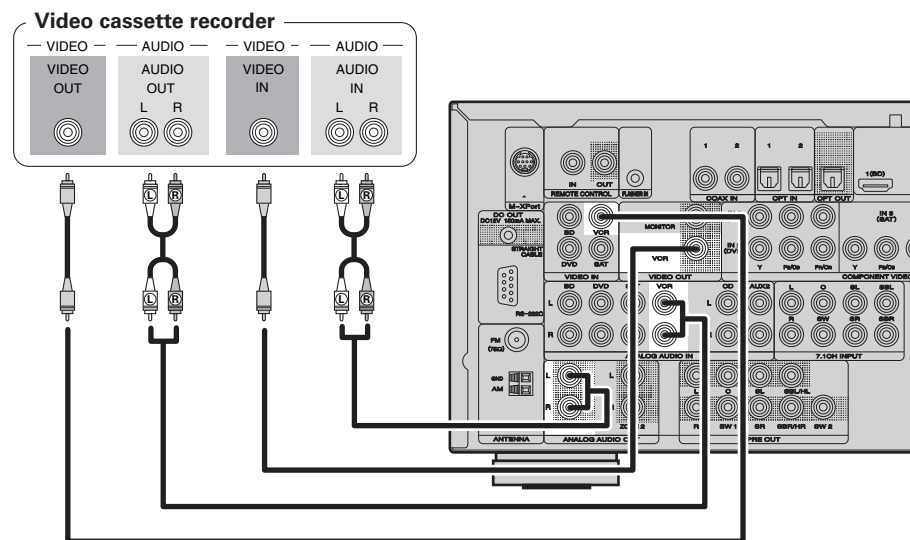
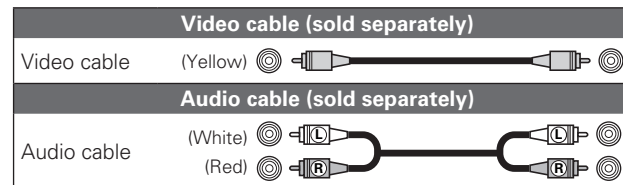
in Set as Necessary

Set this to change the digital input connector or component video input connector to which the input source is assigned.
“Input Assign” (📖 page 52)

Connecting a video cassette recorder

- You can record video onto a video cassette tape.
- Select the connector to use and connect the device.
- When recording analog audio, use the analog connection.
- For instructions on HDMI connections, see “Connecting an HDMI-compatible device” (📖 page 15).

Cables used for connections



in Set as Necessary

Set this to change the digital input connector or component video input connector to which the input source is assigned.
“Input Assign” (📖 page 52)

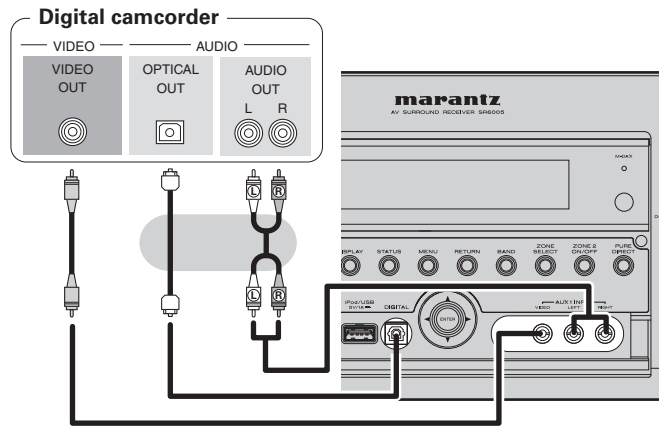
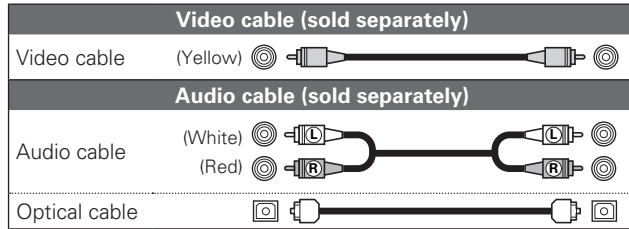
NOTE

To record video signals through this unit, use the same type of video cable for connection between this unit and the player as used for connection between this unit and the recorder.

Connecting a digital camcorder

- You can enjoy video and audio from a digital camcorder.
- You can enjoy games by connecting a game machine via the AUX1 input connector. In this case, select the input source to "AUX1".
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (page 15).

Cables used for connections



in Set as Necessary

Set this to change the digital input connector to which the input source is assigned.

"Input Assign" (page 52)



The front panel OPTICAL input terminal is displayed as "OPT3" in the "Input Setup" - "Input Assign" setting (page 52) in the menu.

NOTE

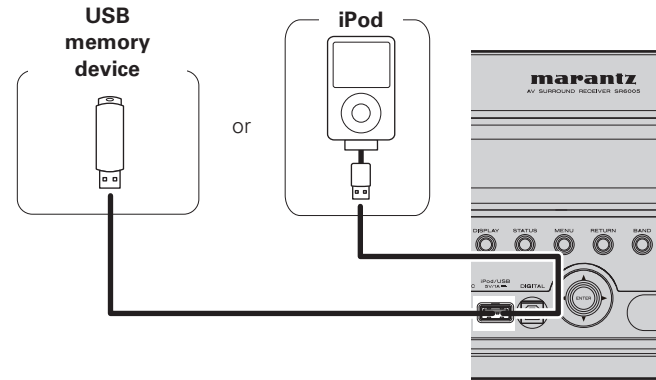
When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. In this case, use the monitor output of the same connector as the input.

Connecting an iPod or USB memory device to the USB port

You can enjoy music stored on an iPod or USB memory device.

Cables used for connections

To connect an iPod to this unit, use the USB cable supplied with the iPod.



Marantz does not guarantee that all USB memory devices will operate or receive power. When using a portable USB connection type HDD of the kind to which an AC adapter can be connected to supply power, use the AC adapter.

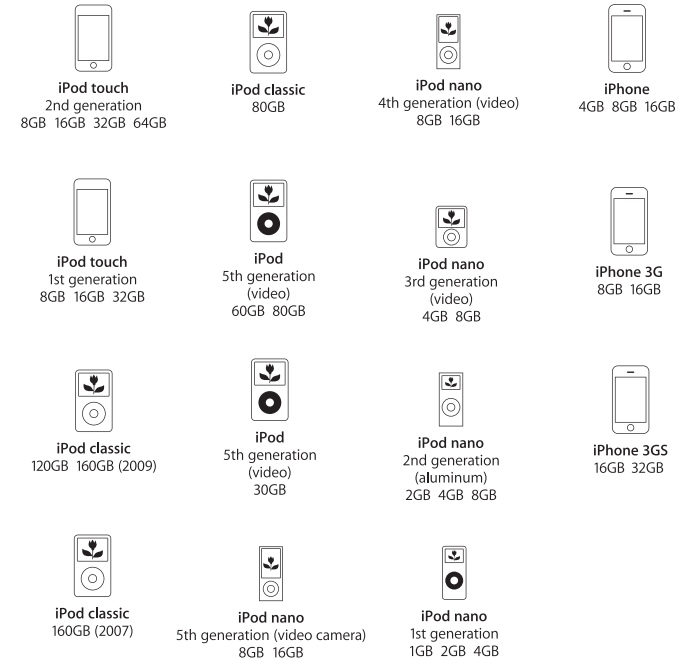
NOTE

- USB memory devices will not work via a USB hub.
- Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices.

Supported iPod models

Made for

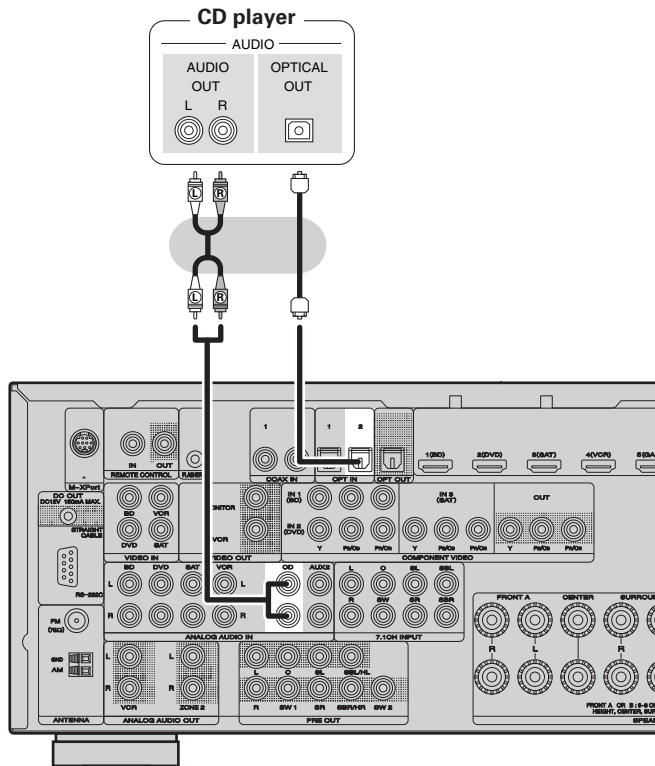
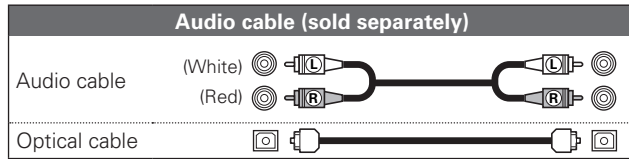
- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic
- iPod with video
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)
- iPhone
- iPhone 3G
- iPhone 3GS



Connecting a CD player

- You can enjoy CD sound.
- Select the connector to use and connect the device.

Cables used for connections

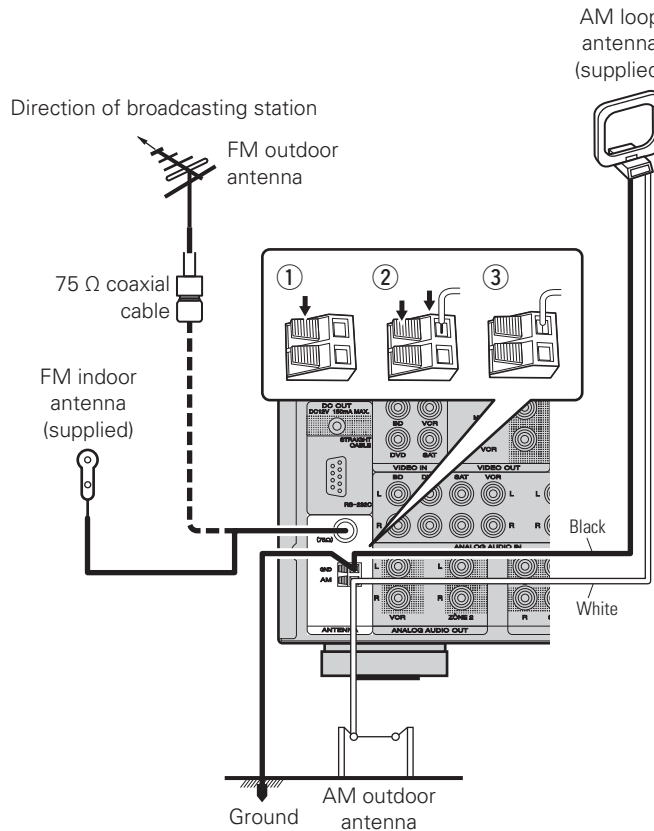


in Set as Necessary

Set this to change the digital input connector to which the input source is assigned.
"Input Assign" (page 52)

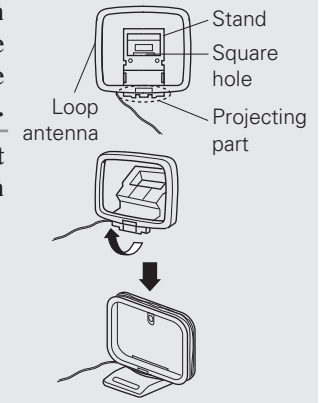
Connecting an antenna

- Connect the FM antenna or AM loop antenna supplied with the unit to enjoy listening to radio broadcasts.
- After connecting the antenna and receiving a broadcast signal (page 28 "Listening to FM/AM broadcasts"), fix the antenna with tape in a position where the noise level becomes minimal.



AM loop antenna assembly

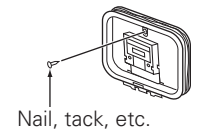
- 1 Put the stand section through the bottom of the loop antenna from the rear and bend it forward.
- 2 Insert the projecting part into the square hole in the stand.



Using the AM loop antenna

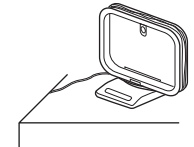
Suspending on a wall

Suspend directly on a wall without assembling.



Standing alone

Use the procedure shown top to assemble.



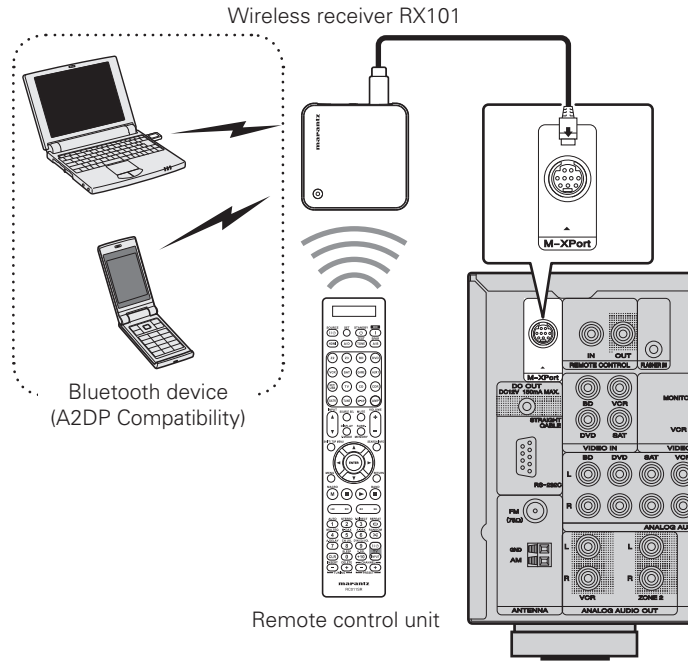
NOTE

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.
- If the signal has noise interference, connect the ground terminal (GND) to reduce noise.
- If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit.

Connecting a wireless receiver (RX101)

By connecting a wireless receiver RX101 (sold separately) to this unit, you can receive and playback audio signals from other devices using the Bluetooth Communication Function.

- Use a Bluetooth device that is A2DP compatible (☞ page 88 "A2DP").
- You can also use wireless receiver RX101 as an external IR receiver.
- For instructions on the wireless receiver settings, refer to the RX101's operating instructions.



You can enjoy listening to music by connecting a wireless receiver via the M-XPORt input connector. In this case, set the input source to "M-XPORt".

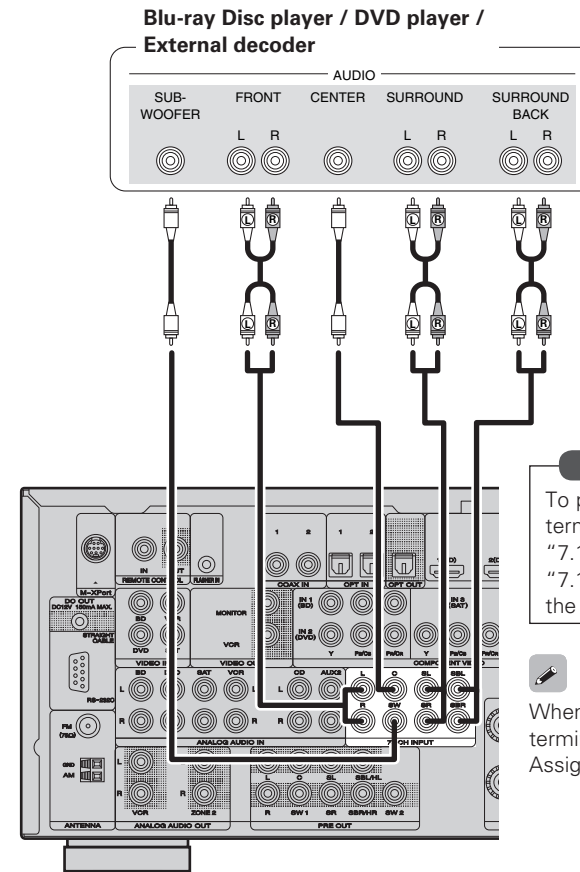
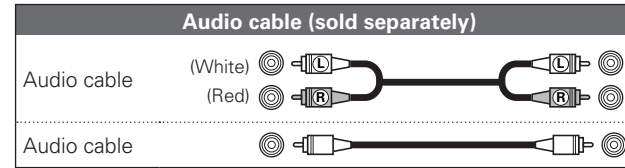
NOTE

To use wireless receiver RX101 as external IR receiver, set the remote sensor function of this unit to "Remote Lock:ON" (☞ page 68 "Remote control settings").

Connect a device that has a multichannel output terminal

- You can connect this unit to an external device fitted with multi-channel sound audio output jacks to enjoy music and video.
- The video signal can be connected in the same way as a Blu-ray Disc player / DVD player (☞ page 17 "Connecting a Blu-ray Disc player / DVD player").

Cables used for connections



in Set as Necessary

To play analog signals input from 7.1CH INPUT terminals, set "Input Mode" (☞ page 54) to "7.1CH IN".
 "7.1CH IN" can also be selected with **A/D** on the remote control unit.

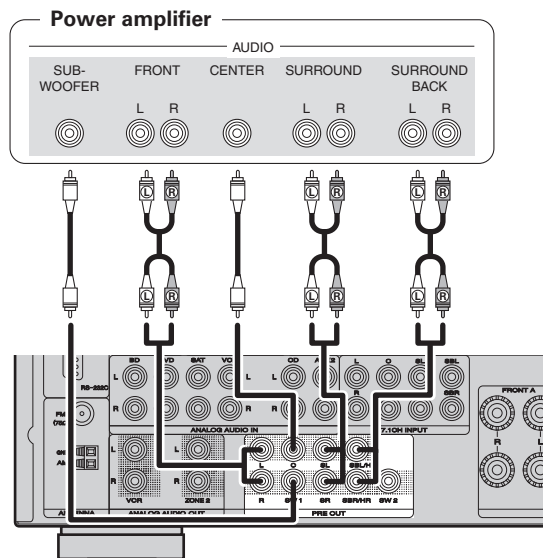
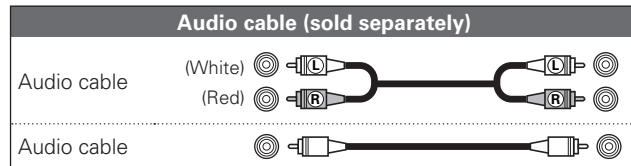


When a device is connected to the SBL/SBR terminal of 7.1CH INPUT terminals, set "Amp Assign" (☞ page 61) to "Normal".

Connecting a external power amplifier

- You can use this unit as a pre-amp by connecting a commercially available power amp to the PRE OUT connector. Adding a power amp to each of the channels provides an even greater sound presence.
- Select the terminal to use and connect the device.

Cables used for connections



- When using just one surround back speaker, connect it to the left channel (L) terminal.
- Use the volume control on the subwoofer to control subwoofer volume.
- If the subwoofer volume sounds low, use the volume control provided on the subwoofer to adjust the volume.

NOTE

- When an external power amp is connected to the PRE OUT terminal, do not connect speakers to the speaker terminals.
- Depending on the settings in the "Amp Assign" (page 61) menu or listening mode, the channel output from the SBL terminal or SBR terminal of the PRE OUT terminal differs.

Playback (Basic operation)

- ❑ **Selecting the input source** (☞ page 23)
- ❑ **Adjusting the master volume** (☞ page 24)
- ❑ **Turning off the sound temporarily** (☞ page 24)

- ❑ **Playing a Blu-ray Disc player/DVD player** (☞ page 24)
- ❑ **Playing a CD player** (☞ page 24)
- ❑ **Playing an iPod®** (☞ page 25)
- ❑ **Playing a USB memory device** (☞ page 26)
- ❑ **Tuning in radio stations** (☞ page 28)

Selecting a listening mode (Surround mode)
(☞ page 31)

Playback (Advanced operation) (☞ page 42)

Important information

Before starting playback, make the connections between the different components and the settings on the receiver.

NOTE

Also refer to the operating instructions of the connected components when playing them.

Selecting the input source

Press the input source select button (BD, DVD, VCR, SAT, GAME, AUX1, NET/USB, TV, CD, TUNE, M-XP) twice to play back that source.

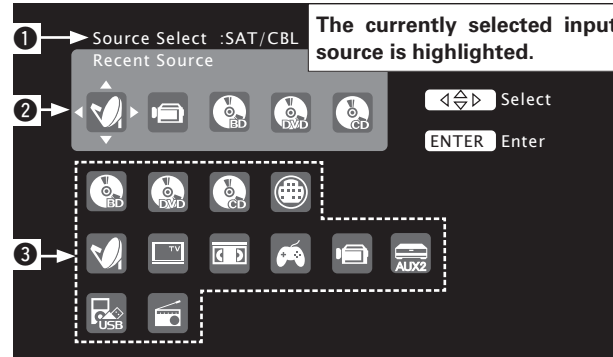
The desired input source can be selected directly.



You can also use the following operation to select an input source.

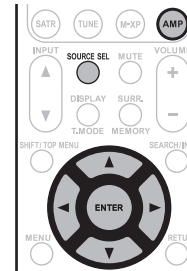
❑ Using the "Source Select" menu

- ① Press **AMP** and the press **SOURCE SEL**.
Display the "Source Select" menu.



- ① **Input Source**
The name of the highlighted input source is displayed.
- ② **Recently used sources**
The recently used input sources (up to five) are displayed.
- ③ **Icons for the input sources in the different categories are displayed.**

- ② Use Δ ∇ \triangleleft \triangleright to select the input source, then press **ENTER**.
The input source is set and the source selection menu is turned off.

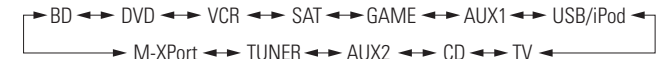
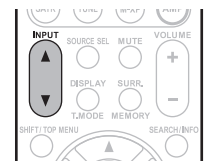


- When using with an iPod connected directly to the USB port of this unit, select "USB/iPod" for the input source.
- Input sources that are not going to be used can be set ahead of time. Make this setting at "Source Delete" (☞ page 66).
- To turn off the source selection menu without selecting an input source, press **SOURCE SEL** again.

❑ Using the button on the remote control unit

Press **INPUT** Δ ∇ .

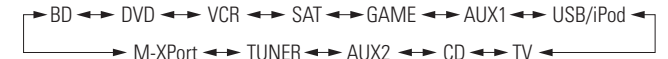
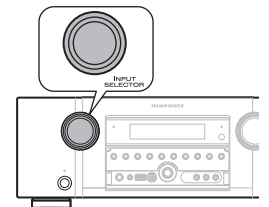
- When **INPUT** Δ ∇ is pressed, the input source is switched in the order shown below.



❑ Using the knob on the main unit

Turn **INPUT SELECTOR**.

- Turning **INPUT SELECTOR** switches the input source, as shown below.



Important information

Adjusting the master volume

Use **VOLUME +, -** to adjust the volume.

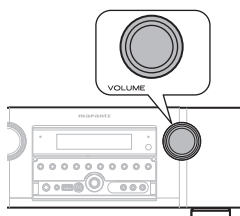
- When the "Volume Display" setting (page 66) is "Relative" [Adjustable range] **-80.5dB - 18.0dB**

- When the "Volume Display" setting (page 66) is "Absolute" [Adjustable range] **0.0 - 99.0**

The adjustable range may vary depending on input signal and channel level settings.



You can also operate via the main unit. In this case, perform the following operations. Turn **VOLUME** to adjust the volume.



Turning off the sound temporarily

Press **MUTE**.

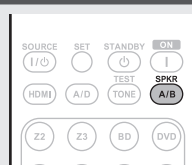
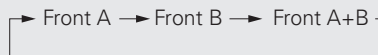


- The sound is reduced to the level set at "Mute Level" (page 66).
- To cancel, press **MUTE** again. Muting can also be canceled by adjusting the master volume.

Set the front speakers to be used

Press **SPKR A/B**.

- Each time you press **SPKR A/B**, the front speaker setting will change as follows.



Playing a Blu-ray Disc player/DVD player

The following describes the procedure for playing Blu-ray Disc player/DVD player.

- Prepare for playback.**
 - Turn on the power of the TV, subwoofer and player.
 - Change the TV input to the input of this unit.
 - Load the disc in the player.
- Press ON to turn on power to the unit.**
- Press BD or DVD twice to switch the input source for the player used for playback.**



- Play the component connected to this unit.** Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand.

Playing a CD player

The following describes the procedure for playing CD player.

- Prepare for playback.**
 - Turn on the power of the subwoofer and player.
 - Load the disc in the player.
- Press ON to turn on power to the unit.**
- Press CD twice to switch the input source to the CD player.**
- Play the component connected to this unit.**



Playing an iPod®

You can play back audio only.

1 Connect the iPod® to the USB port (☞ page 19 “Connecting an iPod or USB memory device to the USB port”).

2 Press **ON** to turn on power to the unit.

3 Press **NET/USB** twice to switch the input source to “USB/iPod”.

NOTE

If the connections screen is not displayed, the iPod may not be properly connected. Reconnect it.



4 Press **SEARCH/INFO** and hold it down for 2 seconds or more to select the display mode.

- There are two modes for displaying the contents recorded on the iPod.

Remote mode Display iPod information on the TV screen.

- The unit display shows single-byte alphanumeric characters and some symbols only. “. ” is displayed in place of incompatible characters.
- In “Remote mode”, the iPod display is as shown at right.



Direct mode Display iPod information on the iPod screen.

- “Direct iPod” is displayed on the display of this unit.

Display mode		Remote mode	Direct mode
Playable files	Music file	✓	✓
	Video file		*
Active buttons	Remote control unit (This unit)	✓	✓
	iPod®		✓

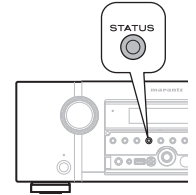
* Only the sound is played.

5 Use Δ ∇ to select the item, then press **ENTER** or \triangleright to select the file to be played.

6 Press **ENTER**, \triangleright or \blacktriangleright . Playback starts.



- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu “USB/iPod” (☞ page 66). Press Δ ∇ \triangleleft \triangleright to return to the original screen.
- To play back compressed audio with extended bass or treble reproduction, we recommend playback in M-DAX mode (☞ page 59). The default setting is “OFF”.
- In Remote mode, press **STATUS** during playback to check the title name, artist name, and album name.

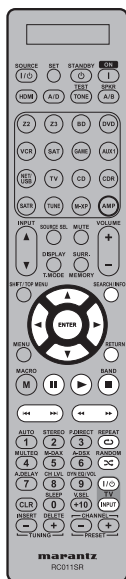


NOTE

- Depending on the type of iPod and the software version, some functions may not operate.
- Note that Marantz will accept no responsibility whatsoever for any problems arising with the data on an iPod when using this unit in conjunction with the iPod.

Playing an iPod®

❑ iPod operation



Operation buttons	Function
△ ▽ ◀ ▶	Cursor operation / Auto search (cue, △ ▽) / Manual search (Press and hold, △ ▽)
ENTER (Press and release)	Enter / Pause
ENTER (Press and hold)	Stop
SEARCH (Press and release)	Page search *1 / Character search *2
SEARCH (Press and hold)	Remote / Direct mode switching
RETURN	Return
◀▶▶▶ (Press and hold)	Manual search (fast-reverse/fast-forward)
▶	Playback / Pause
◀◀◀▶	Auto search (cue)
⏸	Pause
■	Stop
REPEAT	Repeat playback
RANDOM	Random (Shuffle) playback
TV POWER	TV power on/standby (Default : Marantz)
TV INPUT	Switch TV input (Default : Marantz)

*1 When the menu screen is displayed, press **SEARCH/INFO**, then press ◀ (previous page) or ▶ (next page).

To cancel, press △ ▽ or **SEARCH/INFO** twice.

*2 When the menu screen is displayed, press **SEARCH/INFO** twice, then press ◀ ▶ to select the first letter you want to search mode.

- If it is not possible to search the list, "unsorted list." is displayed.

To cancel, press △ ▽ or **SEARCH/INFO**.



- Repeat playback and shuffle playback can also be set from "Input Setup" – "Playback Mode" (page 55) in the menu.
- If the list is not in alphabetical order, you may not be able to perform a character search.

Playing a USB memory device

Playing back music files recorded on a USB memory device.

Important information

❑ USB memory devices

A USB memory device can be connected to the USB port of this unit to play music files stored on the USB memory device.

- Only USB memory devices conforming to mass storage class can be played on this unit.
- This unit is compatible with USB memory devices in "FAT16" or "FAT32" format.

[Compatible formats]

	USB memory devices *1
WMA (Windows Media Audio)	✓ *2
MP3 (MPEG-1 Audio Layer-3)	✓
MPEG-4 AAC	✓ *3
WAV	✓

*1 USB

- This unit is compatible with MP3 ID3-Tag (Ver. 2) standards.
- This unit is compatible with WMA META tags.

*2 Copyright-protected files can not be played.

*3 Only files that are not protected by copyright can be played on this unit.

Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.

[Compatible formats]

	Sampling frequency	Bit rate or Bit length	Extension
WMA (Windows Media Audio)	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32 – 320 kbps	.mp3
MPEG-4 AAC	32/44.1/48 kHz	16 – 320 kbps	.m4a
WAV	32/44.1/48 kHz	16 bit	.wav

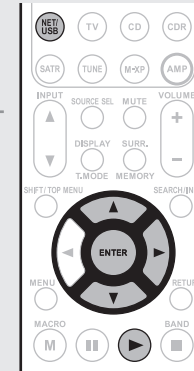
Playing files stored on USB memory devices

1 Connect the USB memory device to the USB port (page 19 "Connecting an iPod or USB memory device to the USB port").

2 Press **NET/USB** twice to switch the input source to "USB/iPod".

3 Press △ ▽ to select the search item or folder, then press **ENTER** or ▶.

4 Press △ ▽ to select the file, then press **ENTER**, ▶ or ►. Playback starts.

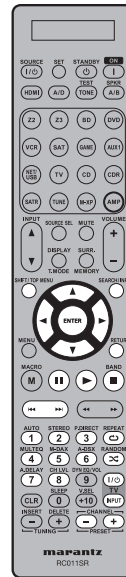




- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu "USB/iPod" (page 66). Press $\Delta \nabla \triangleleft \triangleright$ to return to the original screen.
- To play back compressed audio with extended bass or treble reproduction, we recommend playback in M-DAX mode (page 59). The default setting is "OFF".
- If the USB memory device is divided into multiple partitions, only the top partition can be selected.
- This unit is compatible with MP3 files conforming to "MPEG-1 Audio Layer-3" standards.

NOTE

- Note that Marantz will accept no responsibility whatsoever for any problems arising with the data on a USB memory device when using this unit in conjunction with the USB memory device.
- USB memory devices will not work via a USB hub.
- Marantz does not guarantee that all USB memory devices will operate or be supplied power. When using a USB portable hard disk that can draw power from an AC adapter, we recommend using the AC adapter.
- It is not possible to connect and use a computer via the USB port of this unit using a USB cable.

USB operation

Operation buttons	Function
PRESET +, -	Preset channel selection
$\Delta \nabla \triangleleft \triangleright$	Cursor operation / Auto search (cue, $\Delta \nabla$)
ENTER (Press and release)	Enter / Pause
ENTER (Press and hold)	Stop
SEARCH	Page search *1 / Character search *2
RETURN	Return
\blacktriangleright	Playback / Pause
$\blacktriangleleft \blacktriangleright$	Auto search (cue)
II	Pause
\blacksquare	Stop
1 - 8	Preset channel selection
SHIFT	Preset channel block selection
REPEAT	Repeat playback
RANDOM	Random (Shuffle) playback
TV POWER	TV power on/standby (Default : Marantz)
TV INPUT	Switch TV input (Default : Marantz)

*1 When the menu screen is displayed, press **SEARCH/INFO**, then press \triangleleft (previous page) or \triangleright (next page).

To cancel, press $\Delta \nabla$ or **SEARCH/INFO** twice.

*2 When the menu screen is displayed, press **SEARCH/INFO** twice, then press $\triangleleft \triangleright$ to select the first letter you want to search mode.

- If it is not possible to search the list, "unsorted list." is displayed.

To cancel, press $\Delta \nabla$ or **SEARCH/INFO**.



- Repeat playback and shuffle playback can also be set from "Input Setup" - "Playback Mode" (page 55) in the menu.
- If the list is not in alphabetical order, you may not be able to perform a character search.

Tuning in radio stations

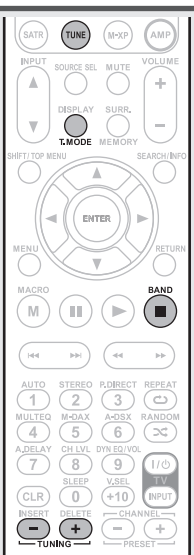
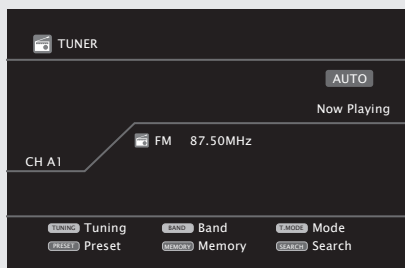
Listening to FM/AM broadcasts

1 Press **TUNE** twice to switch the input source to “TUNER”.

2 Press **BAND** to select “FM” or “AM”.

FM When listening to an FM broadcast.

AM When listening to an AM broadcast.



3 Tune in the desired broadcast station.

1 To tune in automatically (Auto tuning)

Press **T.MODE** to light the “AUTO” indicator on the display, then use **TUNING +** or **TUNING -** to select the station you want to hear.

2 To tune in manually (Manual tuning)

Press **T.MODE** to turn off the display’s “AUTO” indicator, then use **TUNING +** or **TUNING -** to select the station you want to hear.



- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- When tuning in stations manually, press and hold **TUNING +** or **TUNING -** to change frequencies continuously.
- You can specify the duration of the on-screen display to be displayed (default: 30 sec) at menu “TUNER” (page 67). Press $\Delta \nabla \triangleleft \triangleright$ to return to the original screen.
- You can also operate via the main unit. In this case, perform the following operations. Press $\Delta \nabla$ to select the radio station.



❑ Presetting radio stations (Manual preset)

Your favorite broadcast stations can be preset so that you can tune them in easily. Up to 56 stations can be preset.

• Stations can be preset automatically at “Auto Preset” (page 51). If “Auto Preset” is performed after performing “Manual Preset”, the “Manual Preset” settings will be overwritten.

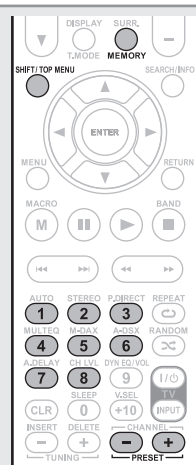
1 Tune in the broadcast station you want to preset.

2 Press **MEMORY**.

3 Press **SHIFT/TOP MENU** to select the block (A to G) in which to preset the channel (1 to 8 per block), then press **PRESET +**, **PRESET -** or **1 - 8** to select the preset number.

4 Press **MEMORY** again to complete the setting.

• To preset other stations, repeat steps 1 to 4.



Default settings

Block (A – G) and Channel (1 – 8)	Default Settings
A1 – A8	87.5 / 89.1 / 98.1 / 108.0 / 90.1 / 90.1 / 90.1 / 90.1 MHz
B1 – B8	522 / 603 / 999 / 1404 / 1611 kHz, 90.1 / 90.1 / 90.1 MHz
C1 – C8	90.1 MHz
D1 – D8	90.1 MHz
E1 – E8	90.1 MHz
F1 – F8	90.1 MHz
G1 – G8	90.1 MHz

Specify a name for the preset broadcast station (Preset Name) (page 51)

❑ Listening to preset stations

1 Press **SHIFT/TOP MENU** to select the memory block (A to G).

2 Press **PRESET +**, **PRESET -** or **1 - 8** to select the desired preset channel.



You can also operate via the main unit. In this case, perform the following operations. Press $\triangleleft \triangleright$ to select the preset radio station.



❑ Direct frequency tuning

You can enter the receiving frequency directly to tune in.

1 Press **SEARCH/INFO**.

2 Input frequencies using the **0 - 9**.

• If \triangleleft is pressed, the immediately preceding input is cancelled.

3 When setting is completed, press **ENTER**.
The preset frequency is tuned in.

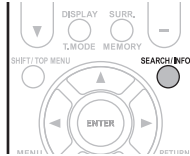


RDS (Radio Data System)

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

NOTE

The operations described as follows using **SEARCH/INFO** will not function in areas in which there are no RDS broadcasts.

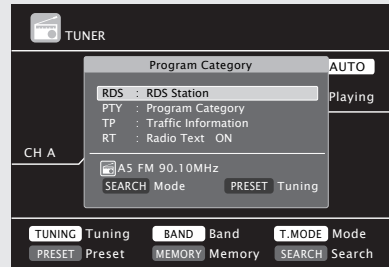


❑ RDS search

Use this function to automatically tune to FM stations that provide the RDS service.

1 Press **TUNE** twice to switch the input source to "TUNER".

2 Press **SEARCH/INFO** to select "RDS SEARCH".



3 Press **PRESET +** or **PRESET -**. The search for RDS stations begins automatically.

- If no RDS stations are found with the above operation, all the reception bands are searched.
- When a broadcast station is found, that station's name appears on the display.
- If no RDS station is found when all the frequencies have been searched, "NO RDS" is displayed.



PTY (Program Type)

PTY identifies the type of RDS program. The program types and their displays are as follows:

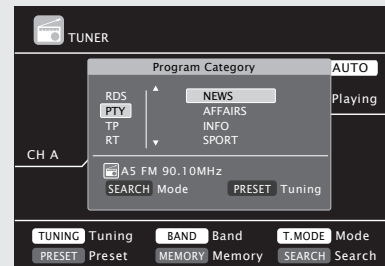
NEWS	News	WEATHER	Weather
AFFAIRS	Current Affairs	FINANCE	Finance
INFO	Information	CHILDREN	Children's program
SPORT	Sports	SOCIAL	Social Affairs
EDUCATE	Education	RELIGION	Religion
DRAMA	Drama	PHONE IN	Phone In
CULTURE	Culture	TRAVEL	Travel
SCIENCE	Science	LEISURE	Leisure
VARIED	Varied	JAZZ	Jazz Music
POP M	Pop Music	COUNTRY	Country Music
ROCK M	Rock Music	NATION M	National Music
EASY M	Easy Listening Music	OLDIES	Oldies Music
LIGHT M	Light Classical	FOLK M	Folk Music
CLASSICS	Serious Classical	DOCUMENT	Documentary
OTHER M	Other Music		

❑ PTY search

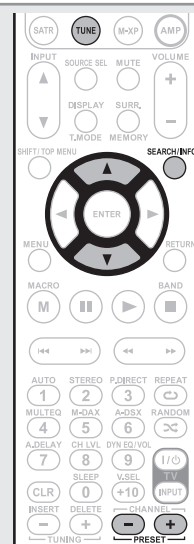
Use this function to find RDS stations broadcasting a designated program type (PTY).

1 Press **TUNE** twice to switch the input source to "TUNER".

2 Press **SEARCH/INFO** to select "PTY SEARCH".



3 Watching the display, press **Δ** or **▽** to call out the desired program type.



4 Press **PRESET +** or **PRESET -**. PTY search begins automatically.

- If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.
- The station name is displayed on the display after searching stops.
- If no station broadcasting the designated program type is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.

TP (Traffic Program)

TP identifies programs that carry traffic announcements.

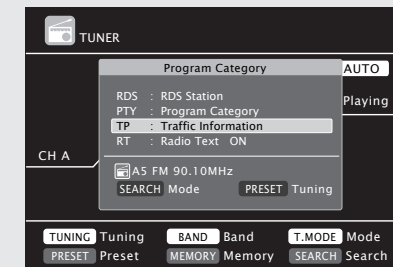
This allows you to easily find out the latest traffic conditions in your area before leaving home.

❑ TP search

Use this function to find RDS stations broadcasting traffic programs (TP stations).

1 Press **TUNE** twice to switch the input source to "TUNER".

2 Press **SEARCH/INFO** to select "TP SEARCH".



3 Press **PRESET +** or **PRESET -**. TP search begins automatically.

- If no TP station is found with the above operation, all the reception bands are searched.
- The station name is displayed on the display after searching stops.
- If no other TP station is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.



Tuning in radio stations

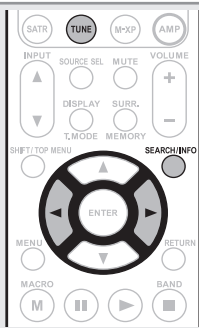
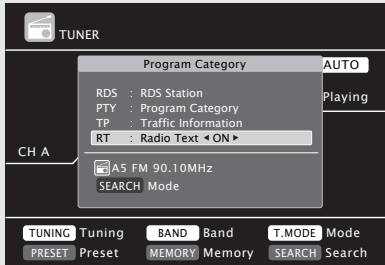
RT (Radio Text)

RT allows RDS stations to send text messages that appear on the display.

"RT" appears on the display when radio text data is received.

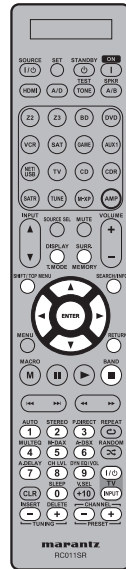
1 Press **TUNE** twice to switch the input source to "TUNER".

2 Press **SEARCH/INFO** to select "RT".



- While receiving an RDS broadcast station, the text data broadcast from the station is displayed.
- To turn the display off, press $\triangleleft \triangleright$.
- If no text data is being broadcast, "NO TEXT DATA" is displayed.

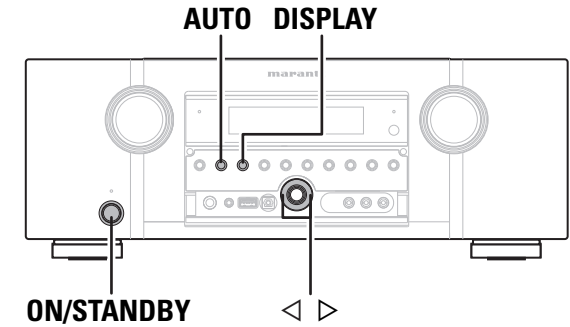
Tuner (FM/AM) operation



Operation buttons	Function
PRESET +, -	Preset channel selection
$\triangle \nabla \triangleleft \triangleright$	Cursor operation
ENTER	Enter setting
SEARCH	Direct frequency tuning / RDS search
RETURN	Return
BAND	FM/AM switching
T.MODE	Switch search modes
TUNING +, -	Tuning (up/down)
0 - 9	Preset channel selection (1 - 8) / Direct frequency tuning (0 - 9)
SHIFT	Preset channel block selection
MEMORY	Preset memory registration
TV POWER	TV power on/standby (Default : Marantz)
TV INPUT	Switch TV input (Default : Marantz)

Switching the tuning increment

The tuning increment factory settings are 9 kHz for AM, and 0.05 MHz for FM.



1 While pressing down **AUTO** and **DISPLAY**, press **ON/STANDBY** to turn on the power. "AM9/FM50" appears on the display.

2 Press $\triangleleft \triangleright$. "AM10/FM200" appears on the display, and the tuning increment is switched to AM and FM are 10 kHz and 0.2 MHz.

3 Press **ON/STANDBY**.

- The tuner preset memory will be cleared if this operation is performed.
- This setting will not revert to the default values even when the microprocessor is reset.

Selecting a listening mode (Surround mode)

This unit can play input audio signals in multi-channel surround mode or in stereo mode. Select a listening mode suitable for the playback contents (cinema, music, etc.) or according to your liking.

Listening mode

Input audio signal	Playback	Listening mode	
2-channel Multi channel	Surround	Multi-channel playback (page 31)	<p>For 2-channel signal input:</p> <ul style="list-style-type: none"> Surround-channel signals are created and played with surround playback. <p>For multichannel signal input:</p> <ul style="list-style-type: none"> The surround signal recorded in source is played as surround playback. (The sound is played according to the settings of the speaker size in "Speaker Config." (page 61).) Surround-back-channel or front-height-channel signals that are not recorded in source can be created.
2-channel Multi channel	Stereo	Stereo playback (page 33)	<ul style="list-style-type: none"> If multichannel signals are input, they are mixed down to 2-channel audio and are played. Subwoofer signals are also output.
2-channel Multi channel	Stereo Surround	Direct playback (page 33)	<p>Sound recorded in source is played as is.</p> <ul style="list-style-type: none"> Surround back signals or front height signals are not created. In this mode, the following items cannot be adjusted. <ul style="list-style-type: none"> Tone (page 57) MultEQ® (page 57) Dynamic EQ® (page 58) Dynamic Volume® (page 58) M-DAX (page 59)
2-channel Multi channel	Virtual Surround	Dolby Virtual Speaker/ Dolby Headphone playback (page 33)	<p>Virtual Surround processing is performed on 2-channel or multichannel input signals that are played back.</p>

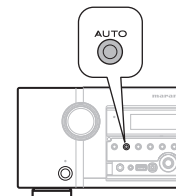
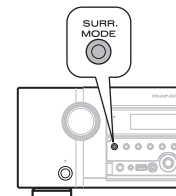


- Some listening modes cannot be selected, depending on the audio format or number of channels of the input signal. For details, see "Types of input signals, and corresponding surround modes" (page 85).
- Adjust the sound field effect with the menu "Surround Parameter" (page 56) to enjoy your favorite sound mode.
- You can select the listening mode by pressing **SURR. MODE** on the main unit.

Press **SURR. MODE** and the modes are switched as shown below.



* For "AUTO", press **AUTO** on the amplifier or remote control unit.

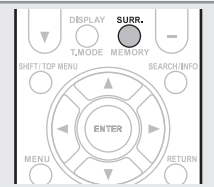


Multi-channel playback

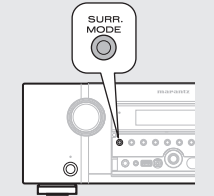
Surround playback of 2-channel sources

1 Playing the source (page 24 – 28).

2 Press **SURR.** to select the surround decoder to play back multichannel sound.



- If **SURR. MODE** on the main unit is pressed, the same function as with the remote control unit can be obtained.
- Each time **SURR.** is pressed, the surround mode is switched.



Which decoder can be selected depends on the settings of "Amp Assign" (page 61) or "Speaker Config." (page 61).

DOLBY PLIIz *1 This mode is for 7.1-channel surround playback using the front height speakers. "PLIIz Height" is displayed.

DOLBY PLIIx *2 This mode is for 7.1-channel or 6.1-channel surround playback using the surround back speakers. "PLIIx Movie", "PLIIx Music" or "PLIIx Game" is displayed.

DOLBY PLII This mode is for 5.1-channel surround playback. Select this mode if no front height speaker nor surround back speaker is to be used. "PLII Movie", "PLII Music", "PLII Game" is displayed.

DTS NEO:6 This mode is for 7.1-channel, 6.1-channel or 5.1-channel surround playback using the surround back speakers. "DTS NEO:6 Cinema" or "DTS NEO:6 Music" is displayed.

MULTI CH STEREO This mode is for enjoying stereo sound from all speakers.

*1 This can be selected when the "Amp Assign" (page 61) setting in the menu is set to "Normal" is set to "A". This cannot be selected when the "Speaker Config." – "F.Height" is set to "None".

*2 This can be selected when "Amp Assign" is set to "Normal" or "Speaker Config." – "S.Back" is not set to "None".

Multi-channel playback

NEURAL *3 This mode is for 7.1-channel, 6.1-channel or 5.1-channel surround playback using the surround back speakers.
 • “NEURAL” is displayed.

*3 This mode supports analog 2-channel audio, and linear PCM 2 channel (44.1 kHz, 48 kHz) audio.

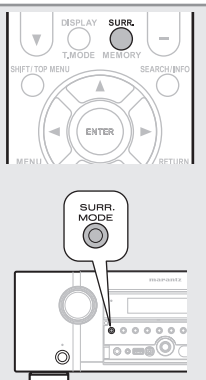
Surround playback of multi-channel sources (Dolby Digital, DTS etc.)

1 Playing the source (page 24 – 28).

2 Press **SURR.** to select the surround decoder to play back multichannel sound.

- If **SURR. MODE** on the main unit is pressed, the same function as with the remote control unit can be obtained.
- Select the surround mode while viewing the display on the screen (“Displaying the currently playing surround mode” at right).

• Which decoder can be selected depends on the input signal, the settings of “Amp Assign” (page 61) or “Speaker Config.” (page 61).

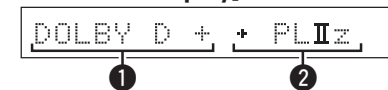


Displaying the currently playing surround mode

Input signal	Surround mode	Display
DOLBY DIGITAL (2ch)	NEURAL	NEURAL
DOLBY DIGITAL (other than 2ch) / DOLBY DIGITAL EX	DOLBY DIGITAL	DOLBY DIGITAL
	DOLBY DIGITAL EX	DOLBY DIGITAL EX
	DOLBY DIGITAL + PLIIx Movie	DOLBY D + PLIIx MV
	DOLBY DIGITAL + PLIIx Music	DOLBY D + PLIIx MS
DOLBY DIGITAL Plus	DOLBY DIGITAL + PLIIz	DOLBY D + PLIIz
	DOLBY DIGITAL Plus	DOLBY DIGITAL +
	DOLBY DIGITAL Plus + EX	DOLBY D + + EX
	DOLBY DIGITAL Plus + PLIIx Movie	DOLBY D + PLIIx MV
	DOLBY DIGITAL Plus + PLIIx Music	DOLBY D + PLIIx MS
	DOLBY DIGITAL Plus + PLIIz	DOLBY D + + PLIIz
DOLBY TrueHD	DOLBY TrueHD	DOLBY TrueHD
	DOLBY TrueHD + EX	DOLBY HD +EX
	DOLBY TrueHD + PLIIx Movie	DOLBY HD +PLIIx MV
	DOLBY TrueHD + PLIIx Music	DOLBY HD +PLIIx MS
	DOLBY TrueHD + PLIIz	DOLBY HD +PLIIz
DTS (5.1ch) / DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS 96/24	DTS SURROUND	DTS SURROUND
	DTS + PLIIx Movie	DTS + PLIIx MV
	DTS + PLIIx Music	DTS + PLIIx MS
	DTS + PLIIz HEIGHT	DTS + PLIIz
	DTS + NEO:6	DTS + NEO:6
	DTS ES MTRX6.1 *1	DTS ES MTRX6.1
	DTS ES DSCRT6.1 *2	DTS ES DSCRT6.1
	DTS 96/24 *3	DTS 96/24
DTS-HD	DTS-HD HI RES	DTS-HD HI RES
	DTS-HD MSTR	DTS-HD MSTR
	DTS-HD + NEO:6	DTS-HD + NEO:6
	DTS-HD + PLIIx MOVIE	DTS-HD + PLIIx MV
	DTS-HD + PLIIx MUSIC	DTS-HD + PLIIx MS
	DTS-HD + PLIIz HEIGHT	DTS-HD + PLIIz
PCM (multi ch)	DTS Express	DTS Express
	MULTI CH IN	MULTI CH IN
	MULTI IN + Dolby EX	MULTI +Dolby EX
	MULTI IN + PLIIx MOVIE	MULTI IN +PLIIx MV
	MULTI IN + PLIIx MUSIC	MULTI IN +PLIIx MS
	MULTI IN + PLIIz HEIGHT	MULTI IN +PLIIz
All Input signal	MULTI CH IN 7.1	MULTI CH IN 7.1
	Dolby VIRTUAL SPEAKER	DOLBY VS

- *1 This is displayed when the input signal is “DTS-ES Matrix 6.1”.
- *2 This is displayed when the input signal is “DTS-ES Discrete 6.1”.
- *3 This is displayed when the input signal is “DTS 96/24”.

(Views on the display)



- ① Shows a decoder to be used.
 - A DOLBY DIGITAL Plus decoder is displayed as “DOLBY D +”.
- ② Shows a decoder that creates sound output from the surround back speakers.
 - “+ PLIIz” indicates the front height sound from front height speakers.



For an input signal that can be reproduced in each surround mode, see “Surround modes and surround parameters” (page 83).

Stereo playback

This is the mode for playing in stereo. The tone can be adjusted.

- Sound is output from the front left and right speakers and subwoofer.
- If multichannel signals are input, they are mixed down to 2-channel audio and are played.

1 Playing the source (☞ page 24 – 28).

2 Press **STEREO**.
Stereo playback begins.



Direct playback

Sound recorded in source is played as is.

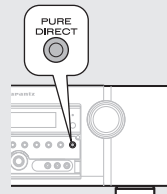
- Surround back signals or front height signals are not created.
- In this mode, the following items cannot be adjusted.
 - Tone (☞ page 57)
 - MultEQ® (☞ page 57)
 - Dynamic EQ® (☞ page 58)
 - Dynamic Volume® (☞ page 58)
 - M-DAX (☞ page 59)

1 Playing the source (☞ page 24 – 28).

2 Press **P.DIRECT** to select the direct mode.

- If **PURE DIRECT** on the main unit is pressed, the same function as with the remote control unit can be obtained.

- Each time **P.DIRECT** is pressed, the direct mode is switched.



Source Direct This mode plays back tracks at high sound quality without passing through the sound quality adjustment circuits.

Pure Direct * This mode plays back tracks at the closest to the original sound quality.

Auto This mode detects the type of input digital signal, and automatically selects the corresponding mode for playback.

* The following circuits that affect sound quality are set to off.

- Main unit's display circuit (The display is turned off.)
- Analog video input/output circuit



- To cancel, press **P.DIRECT** again.
- Video signals are only output when HDMI signals are played in the PURE DIRECT mode.

NOTE

When in the PURE DIRECT mode, the menu screen is not displayed.

Dolby Virtual Speaker/Dolby Headphone playback

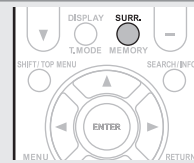
☐ Dolby Virtual Speaker mode

This delivers a full surround sound experience from two stereo speakers.

- Sound is output from the front left and right speakers.
- If multichannel signals are input, they are mixed down to 2-channel audio.

1 Playing the source (☞ page 24 – 28).

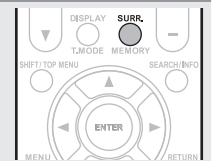
2 Press **SURR.** to select “DOLBY VS”.



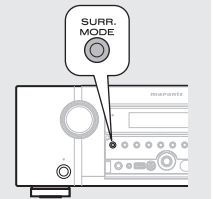
☐ Dolby Headphone mode

You can enjoy listening to multi-channel surround sound through headphones using this mode.

Press **SURR.** to select the Dolby Headphone mode.



- If **SURR. MODE** on the main unit is pressed, the same function as with the remote control unit can be obtained.



- Each time **SURR.** is pressed, the Dolby Headphone mode is switched.

DOLBY HEADPHONE

This is the surround mode for listening with headphones. The surround sound field is played through regular headphones.

DOLBY HP BYPASS

The sound is played in the normal stereo mode rather than the surround mode when listening with headphones.

DOLBY HP PLII Movie

This mode is best suited for movie sources.

DOLBY HP PLII Music






This mode is best suited for music sources.

NOTE

- The surround mode returns to the previous setting as soon as the plug is removed from the jack.
- You can select Dolby HP PLII Movie or Dolby HP PLII Music when a 2-channel source is played back.

Advanced version

Here, we explain functions and operations that let you make better use of this unit.

- **Speaker installation/connection**
(Other than 7.1-channel system with surround back speakers)  page 35
- **Playback (Advanced operation)**  page 42
- **Playback in ZONE2 (Separate room)**  page 45
- **How to make detailed settings**  page 47
- **Operating the connected devices by remote control unit**  page 69

Speaker installation/connection (Other than 7.1-channel system with surround back speakers)

This section explains a wide range of speaker installation/connection/setting procedures.

For details on installing/connecting/setting 7.1 channel audio that uses surround back speakers, see "Simple version (Simple setup guide)" (page 4).

Use the Audyssey® Auto Setup function of this unit to automatically detect the number of connected speakers and perform optimal settings for the speakers to be used.

Procedure for speaker settings

Install

Connect (page 36)

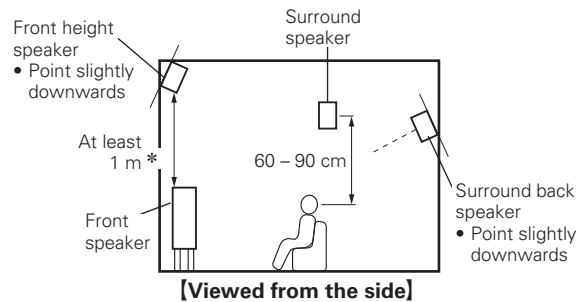
Set up speakers (page 39)

Install

This unit is compatible with Dolby Pro Logic IIz (page 88), which offers an even wider and deeper surround sensation. When using Dolby Pro Logic IIz, install front height speakers.



Install the surround back speakers in a position 60 to 90 cm higher than ear level.

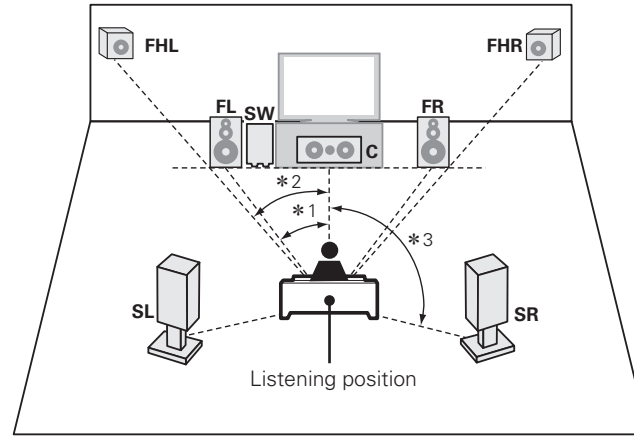


* Recommended for Dolby Pro Logic IIz

NOTE

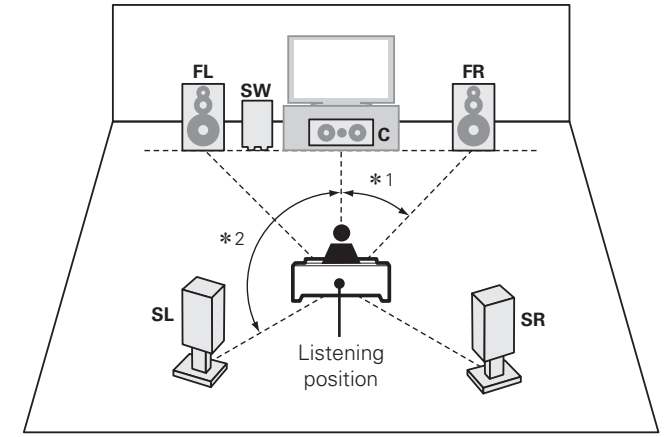
It is not possible to use the surround back speakers and front height speakers simultaneously.

When 7.1ch (Front height speaker) installed



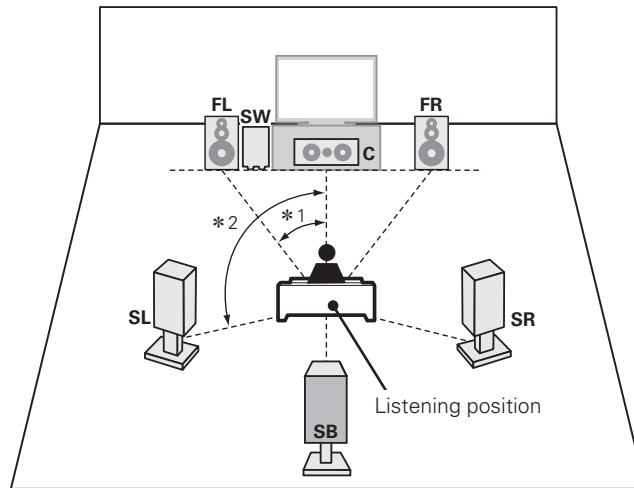
* 1 22° - 30° * 2 22° - 45° * 3 90° - 110°

When 5.1ch installed



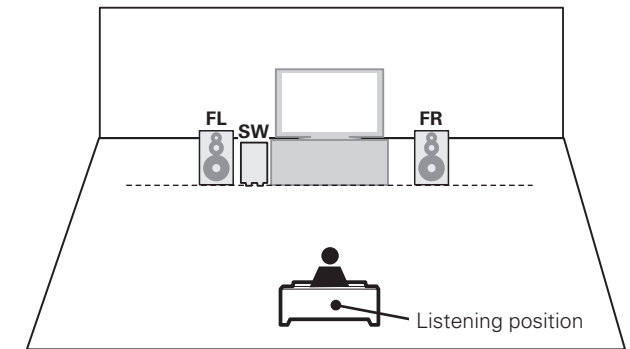
* 1 22° - 30° * 2 120°

When 6.1ch (Surround back speaker) installed



* 1 22° - 30° * 2 90° - 110°

When 2.1ch installed



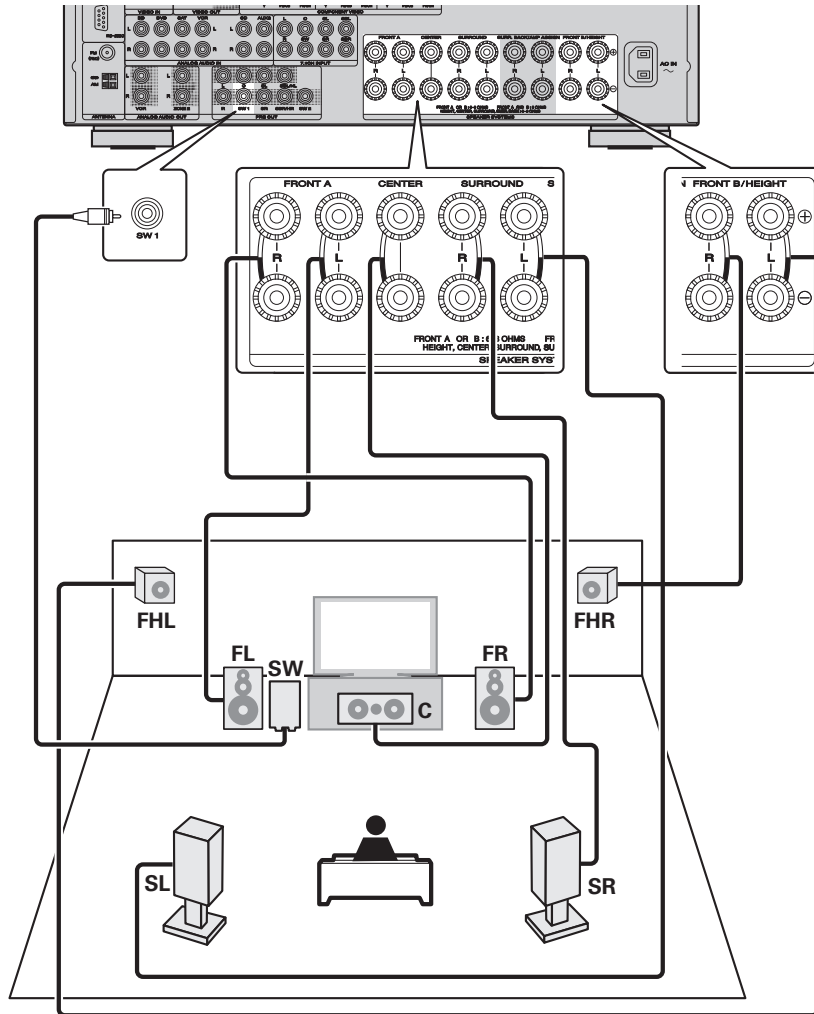
- FL Front speaker (L)
- FR Front speaker (R)
- C Center speaker
- SW Subwoofer
- SL Surround speaker (L)
- SR Surround speaker (R)
- SB Surround back speaker
- FHL Front height speaker (L)
- FHR Front height speaker (R)

Connect

- For the method of connecting the 7.1-channel system with surround back speakers, see page 5.
- For the method of connecting the TV, see page 6.

7.1-channel (Front height speaker) connection

For 7.1-channel (Front height speaker) playback, set "Set up "Amp Assign"" (page 39) to "Normal".

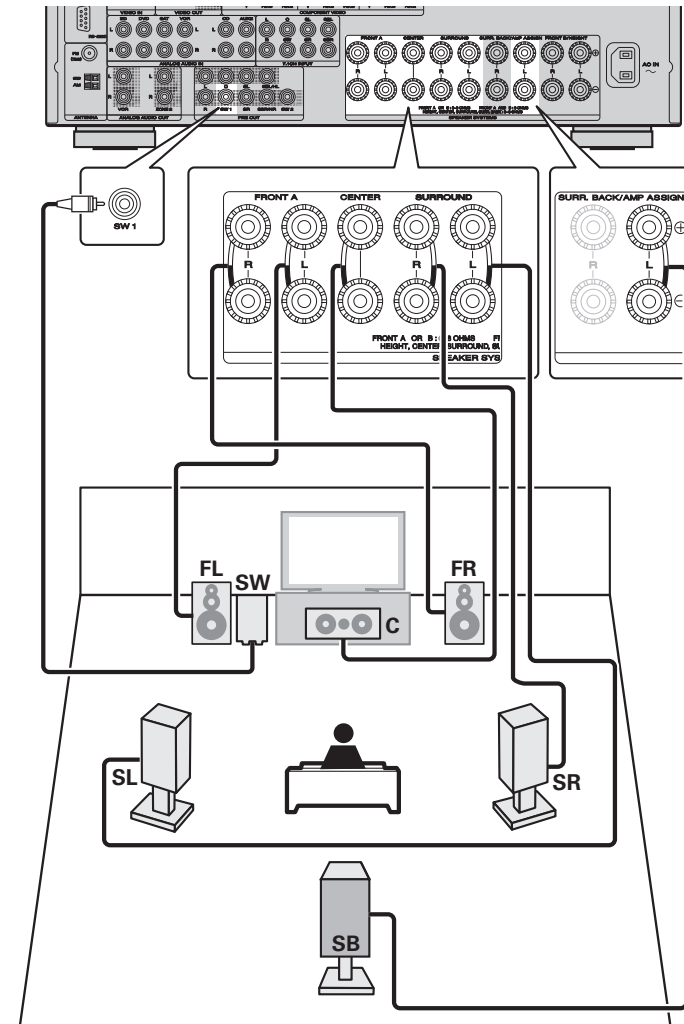


6.1-channel (Surround back speaker) connection

If using only one surround back speaker (with a 6.1-channel connection), connect to the "L" side of the SURR. BACK/AMP ASSIGN terminal.

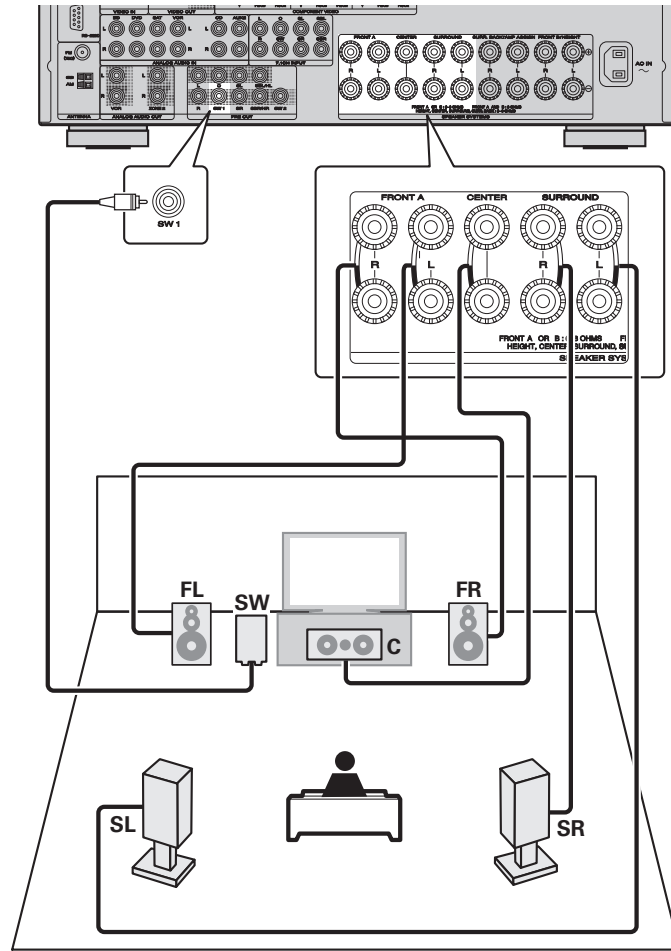
For speaker settings in this case, see "When 6.1ch (Surround back speaker) installed" (page 35).

For 6.1-channel (Surround back speaker) playback, set "Set up "Amp Assign"" (page 39) to "Normal".



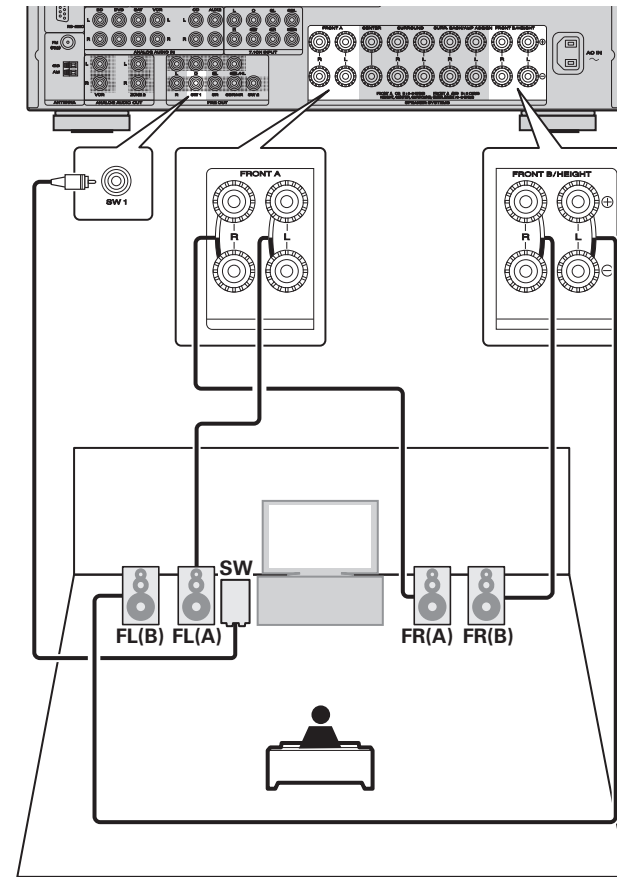
5.1-channel connection

For 5.1-channel playback, set "Set up "Amp Assign"" (page 39) to "Normal".



Front A/B connection

The second set of front speakers can be connected to the FRONT B/HEIGHT terminals. In this case, perform the settings using the **SPKR A/B** button on the remote control (page 24 "Set the front speakers to be used").



For surround playback of a multichannel source, if you connect the center speaker, surround speakers, surround back speakers and subwoofers, 7.1-channel playback is available. Front speakers can be used separately, depending on the speaker's specifications or playback source such as front speakers (A) for multichannel playback and front speakers (B) for 2-channel playback.

NOTE

When using the A front speakers and B front speakers simultaneously, make sure you check the impedance of the connected speakers (page 5).

For speaker impedance and speaker cable connections, see page 5.

Simple version

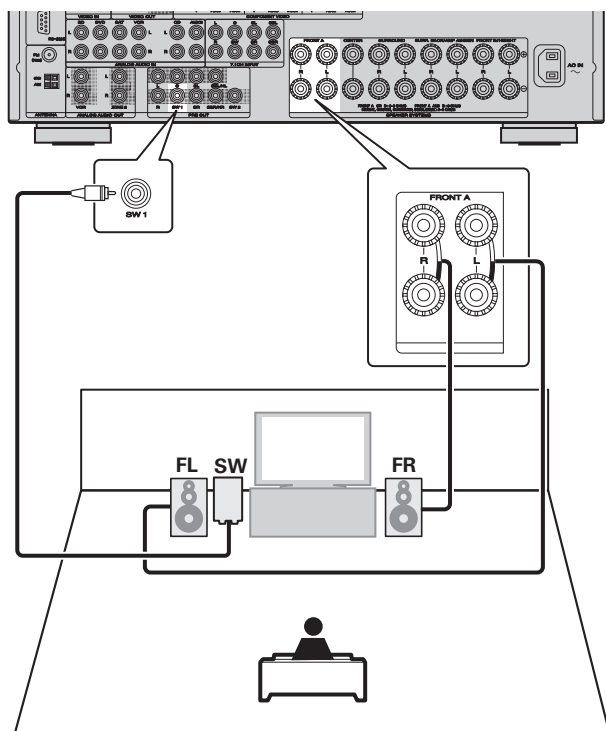
Basic version

Advanced version

Information

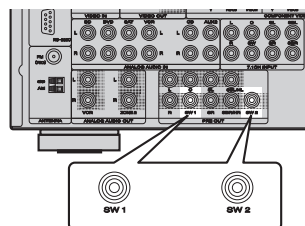
Connect

2.1-channel connection



□ For connecting two subwoofers

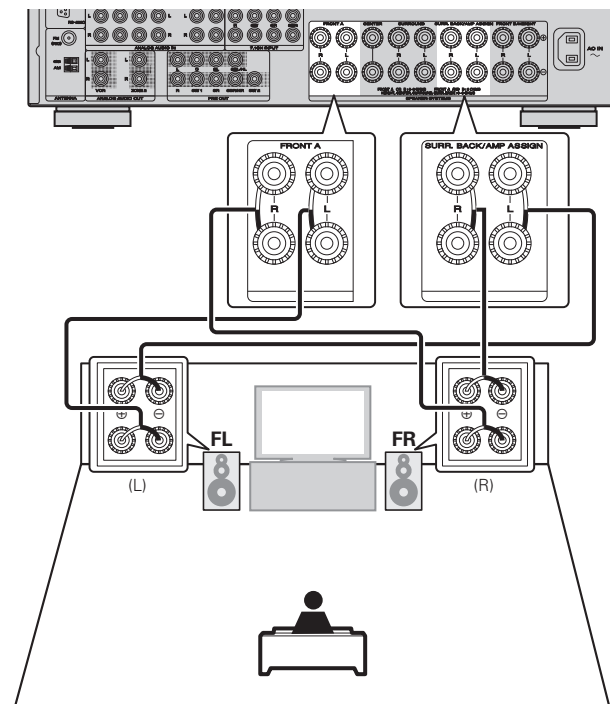
Two subwoofers can be connected to this unit.
The same signal is output from each subwoofer terminal.



Bi-Amp connection

A bi-amp connection is to connect separate amplifiers to the tweeter terminals and woofer terminals of speakers compatible with the bi-amp function. This prevents the back electromotive force (returned force without output) of the woofer sent to the tweeter, which affects the sound quality of the tweeter, and you can enjoy playback with higher-quality sound.

In this case, set "Set up "Amp Assign"" (page 39) to "SPKR-C".



When making a bi-amp connection, the same signal is output from the FRONT A terminal and the SURR. BACK/AMP ASSIGN terminal.

For surround playback of a multichannel source, if you connect the center speaker, surround speakers and subwoofers, 5.1-channel playback is available.

NOTE

- Use speakers compatible with bi-amp connections.
- When making bi-amp connections, be sure to remove the short-circuiting plate or wire between the speaker's woofer and tweeter terminals.

Set up speakers

This section provides the setup methods of speaker systems other than the 7.1-channel system (with surround back speakers).

For the setup methods of the 7.1-channel system with surround back speakers, see "Simple version", "Set up speakers (Audyssey® Auto Setup)" (page 7) of "Simple version".


First install and connect the speakers to this unit.

Before Auto Setup measurement, the settings shown below can be made.

- Changing the amplifier assignment (Amp Assign)
The signal output from the SURR.BACK/AMP ASSIGN speaker terminal of this unit can be switched to match your speaker environment (page 39 "Set up "Amp Assign"").
- Setting the channels to be used (Channel Select)
If channels that are not to be used are set in advance, measurement for the set channels is skipped, and measuring time can be reduced (page 39 "Set up "Channel Select"").

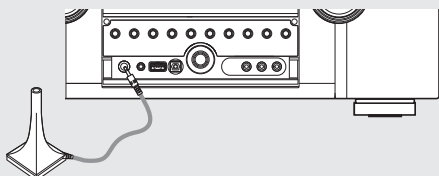
1 Set up the remote control unit

Set up the operation mode
Press **AMP** to set the remote control unit to amplifier operation mode.

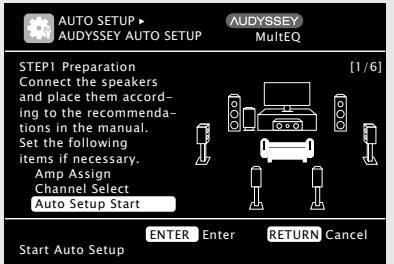


Press **AMP**

2 Connect the setup microphone.

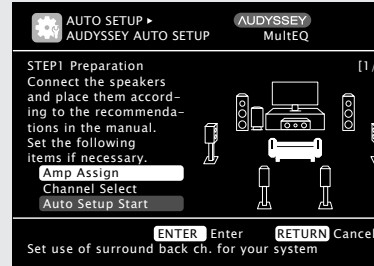


When the setup microphone is connected, the following screen is displayed.



3 Set up "Amp Assign"

Use Δ / ∇ to select "Amp Assign", and then press **ENTER**.

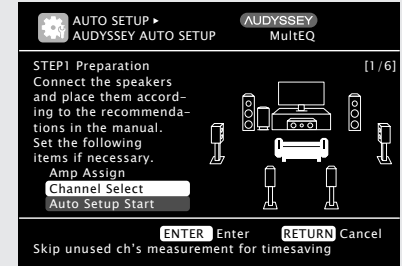


4 Use \triangleleft / \triangleright to select the configuration of the connected speakers, and then press **RETURN**.

- Normal** Set when using 7.1-channel (Front/Center/Surround/Surround Back or Front height/Subwoofer) speakers.
- ZONE2** Set for connecting the speakers for ZONE2 to the SURR. BACK/AMP ASSIGN terminals.
- SPKR-C** Set for connecting a tweeter of a front speaker to the SURR. BACK/AMP ASSIGN terminals and a woofer of the front speaker to the FRONT A terminals.

5 Set up "Channel Select"

Use Δ / ∇ to select "Channel Select", and then press **ENTER**.



6 Use Δ / ∇ to select a channel.

- Subwoofer** Select for no subwoofers to be used. In this case, go to step 7.
- Surround Back** Select for no surround back speakers to be used. In this case, go to step 8.
 - "Surround Back" can be set when "Amp Assign" is set to "Normal".
- Front Height** Select for no front height speakers to be used. In this case, go to step 9.
 - "Front Height" can be set when "Amp Assign" is set to "Normal".

7 [When "Subwoofer" is selected in step 6]

Use \triangleleft / \triangleright to select the item.

- Measure** Set for measuring a subwoofer.
- Skip** Set for no measuring of a subwoofer.

Set up speakers

8 [When "Surround Back" is selected in step 6]

Use ◀ ▶ to select the item.

Measure (2spkr) Set for measuring two surround back speakers.

Measure (1spkr) Set for measuring a surround back speaker.

Skip Set for no measuring of a surround back speaker.

9 [When "Front Height" is selected in step 6]

Use ◀ ▶ to select the item.

Measure Set to measure the front height speakers.

Skip Set when you do not want to measure the front height speakers.

10 Press RETURN.

Proceed to page 9 **STEP1 Preparation** step 5.

NOTE

After performing Audyssey® Auto Setup, do not change the speaker connections or subwoofer volume. In event of a change, perform Audyssey Auto Setup again.

Connections (Advanced connection)

REMOTE CONTROL jacks

When you use this unit connected to Marantz audio components, it sends operation signals to operate each component.

Connection

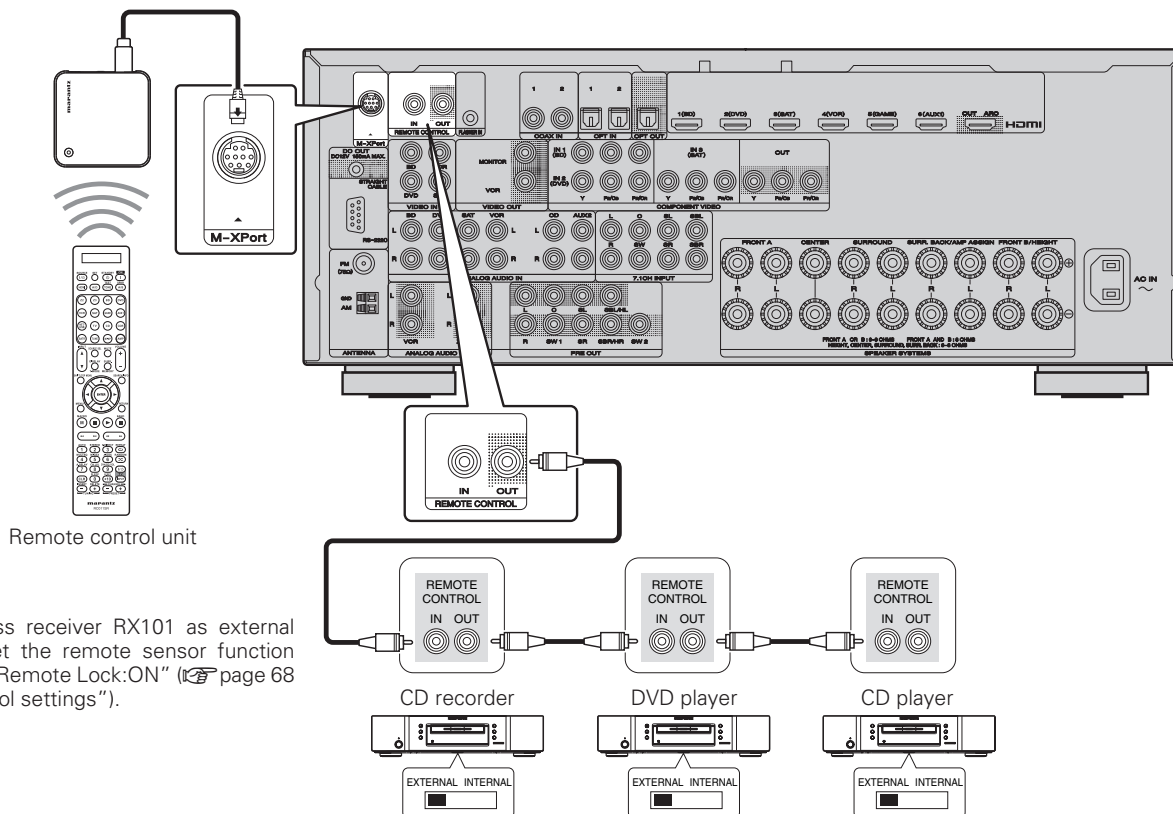
Use the remote connection cable (supplied with a Marantz audio component you want to connect) to connect the REMOTE CONTROL OUT terminal of this unit to the REMOTE CONTROL IN terminal of the component to be connected.

Setting

Set the remote control switch located on the rear panel of the connected audio component to "EXTERNAL" or "EXT." to use this feature.

- This setting will disable remote sensor reception of the connected audio component.
- To operate the connected audio component, point the remote control at the remote sensor of this unit.

Wireless receiver RX101 (☞ page 22)



NOTE

To use wireless receiver RX101 as external IR receiver, set the remote sensor function of this unit to "Remote Lock:ON" (☞ page 68 "Remote control settings").



Move the cursor (Up/Down/Left/Right)



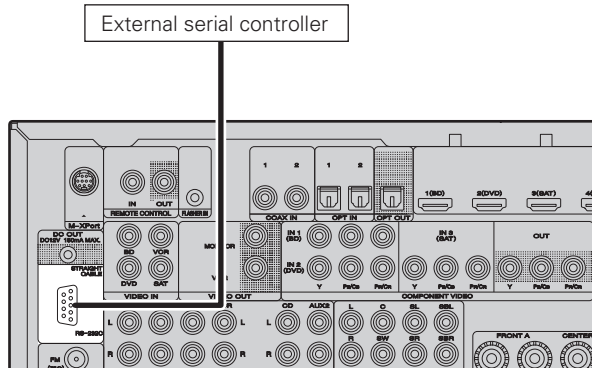
Confirm the setting



Return to previous menu

RS-232C connector

When you connect an external control device, you can control the unit with the external control device. Perform the operation below beforehand.

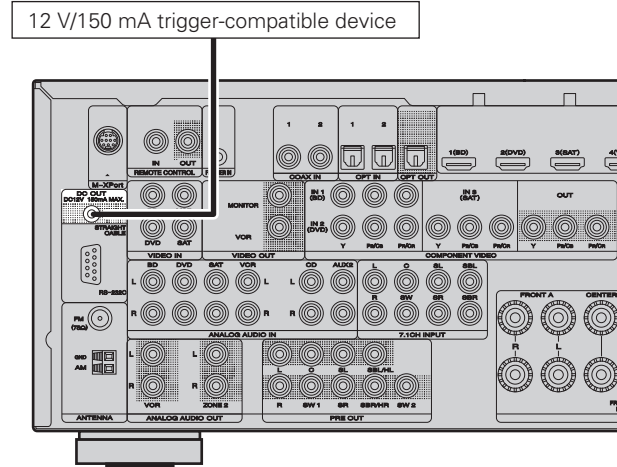


Perform the operation below beforehand.

- ① Turn on the power of this unit.
- ② Turn off the power of this unit from the external controller.
- ③ Check that the unit is in the standby mode.

DC OUT (TRIGGER OUT) jacks

When a device with DC IN jack is connected, the connected device's power on/standby can be controlled through linked operation to this unit. The DC OUT jack outputs a maximum 12 V/150 mA electrical signal.



in Set as Necessary

Set to change the conditions for linked operation via the DC OUT (TRIGGER OUT) jack. "Trigger Out" (page 67)

NOTE

If the permissible trigger input level for the connected device is larger than 12V/150 mA, or has shorted, the DC OUT (TRIGGER OUT) jack cannot be used. In this case, turn off the power to the unit, and disconnect it.

Playback (Advanced operation)

Playback (Basic operation) (👉 page 23)

Selecting a listening mode (Surround mode)
(👉 page 31)

- HDMI control function** (👉 page 42)
- Sleep timer function** (👉 page 43)
- Adjusting the volume of the speakers** (👉 page 43)
- Panel lock function** (👉 page 44)
- Various memory functions** (👉 page 44)

Convenient functions

HDMI control function

When you make an HDMI connection with a TV or player compatible with this unit and HDMI control functions, you can perform the following operations by setting the HDMI control function of each device.

- This unit power off can be linked to the TV power off step.**
- You can switch audio output devices with a TV operation.**
When you set "Output audio from amp" in the TV audio output setup operation, you can switch the amp power on.
- You can adjust this unit volume in the TV volume adjustment operation.**
- You can switch this unit input sources through linkage to TV input switching.**
- When playing the player, this unit input source switches to the source for that player.**

NOTE

- **When "HDMI Control" is set to "ON", it consumes more standby power.**
- The HDMI control function controls operations of a TV that is compatible with the HDMI control function. Make sure that the TV and HDMI are connected when you perform HDMI control.
- Some functions may not operate depending on the connected TV or player. Check the user guide of each device for details beforehand.
- When "Power Off Control" on the menu is set to "OFF" (👉 page 64), this unit is not set to standby even if the connected device is in the standby mode.
- When connection changes are implemented, such as adding connections to HDMI devices, linked operations may be initialized. In this case, you will need to reconfigure the settings.
- When "HDMI Control" is set to "ON", it is not possible to assign an HDMI connector to "TV" at "Input Assign" (👉 page 52).

1 Set the HDMI output connector corresponding with the HDMI control function.

Set "HDMI Control" (👉 page 64) to "ON".

2 Turn the power on for all the equipment connected by HDMI cable.

3 Set the HDMI control function for all equipment connected by HDMI cable.

- Please consult the operating instructions for the connected equipment to check the settings.
- Carry out steps 2 and 3 should any of the equipment be unplugged.

4 Switch the television input to the HDMI input connected to this unit.

5 Switch this unit input to the HDMI input source and check if the picture from the player is ok.

6 When you turn the TV's power to standby, check that the power of this unit also goes to standby.



If the HDMI control function does not operate properly, check the following points.

- Is the TV or player compatible with the HDMI control function?
- Is "HDMI Control" (👉 page 64) set to "ON"?
- Is "Power Off Control" (👉 page 64) set to "All" or "Video"?
- Are the HDMI control function settings of all equipment correct?

NOTE

Should any of the operations below be performed, the interlocking function may be reset, in which case, repeat steps 2 and 3.

- "Input Assign" – "HDMI" (👉 page 52) setting has changed.
- There is a change to the connection between the equipment and the HDMI, or an increase in equipment.

Sleep timer function

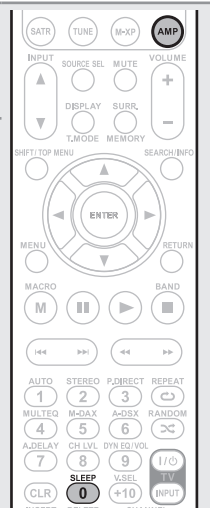
The power automatically goes into standby once the set time has elapsed.

This is convenient for playing sources while going to sleep.

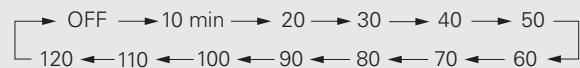
1 Press **AMP** to set the remote control unit to amplifier operation mode.

2 Press **SLEEP** and display the time you want to set.

The **SLEEP** indicator on the display lights.



• The time switches as shown below each time **SLEEP** is pressed.



To cancel the sleep timer

Press **SLEEP** to set "OFF".

The **SLEEP** indicator on the display turns off.



- The sleep timer setting is canceled if this unit's power is set to standby or turned off.
- When power to the main zone is turned off with the sleep timer, power in ZONE2 is also turned off.

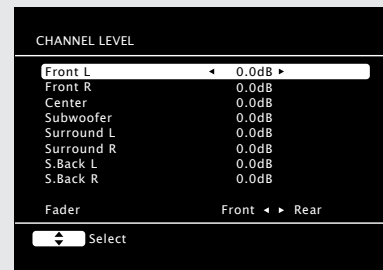
Adjusting the volume of the speakers

You can adjust the channel level either according to the playback sources or to suit your taste, as described below.

Adjusting the volume of the different speakers

1 Press **AMP** to set the remote control unit to amplifier operation mode.

2 Press **CH LVL**.



3 Use Δ / ∇ to select the speaker.

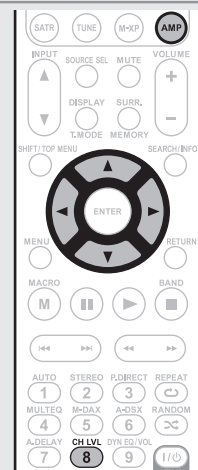
The speaker that can be set switches each time one of the buttons is pressed.

4 Use \triangleleft / \triangleright to adjust the volume.

- In the case of a subwoofer, pressing \triangleleft when it is at "-12 dB" will change the setting to "OFF".



- When a headphone jack is inserted, the headphone channel level can be adjusted.
- When the input mode setting is "7.1CH IN", you can adjust the channel level while the 7.1CH INPUT connector is being used. In that case, "7.1CH IN Level" appears at the top of the screen.

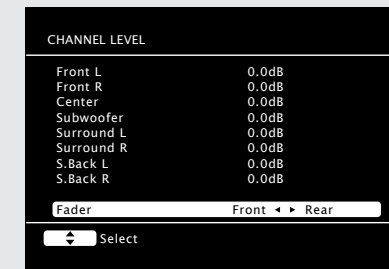


Adjusting the volume of groups of speakers (Fader function)

This function lets you adjust (fade) the sound all at once from the front (front speaker / front height speaker / center speaker) or rear (surround speaker / surround back speaker).

1 Press **AMP** to set the remote control unit to amplifier operation mode.

2 Press **CH LVL**.



3 Press ∇ to select "Fader", then select the item to be adjusting using \triangleleft / \triangleright .

4 Use \triangleleft / \triangleright to adjust the volume of the speakers. (\triangleleft : front, \triangleright : rear)



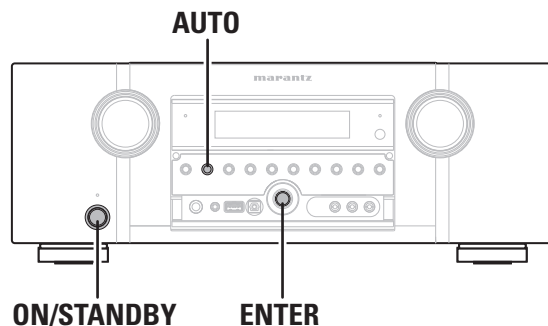
- The fader function does not affect the subwoofer.
- The fader can be adjusted until the volume of the speaker is adjusted to the lowest value of -12 dB.



Convenient functions

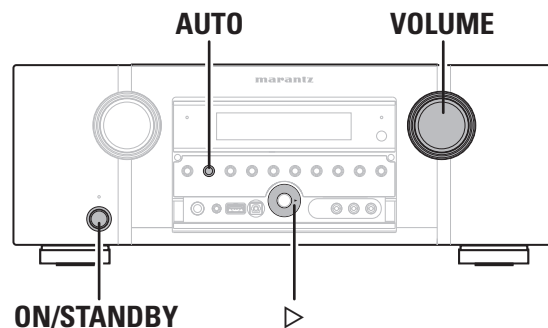
Panel lock function

To prevent accidental operation of this unit, you can disable operation of the buttons on the front panel.

 Disabling all key button operations


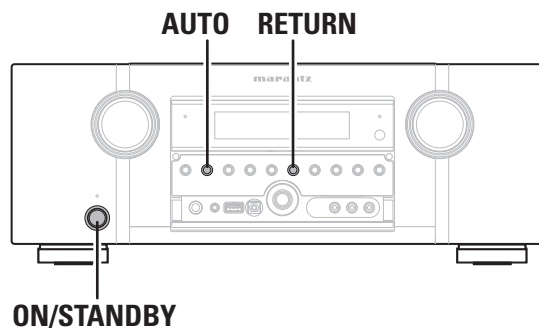
Press **ON/STANDBY** while you press and hold **AUTO** and **ENTER** with the unit in standby mode.

"Panel Lock:ON" appears on the display and all button operations except **ON/STANDBY** are disabled.

 Disabling all button operations except **VOLUME**


Press **ON/STANDBY** while you press and hold **AUTO** and **▶** with the unit in standby mode.

"Panel Lock:ON" appears on the display and all button operations except **ON/STANDBY** and **VOLUME** are disabled.

 Canceling the Panel lock function


Press **ON/STANDBY** while you press and hold **AUTO** and **RETURN** with the unit in standby mode.

The Panel lock function is canceled.



Even when the Panel lock function is set, you can operate the unit using the remote control unit.

Various memory functions

 Personal memory plus function

This function sets the settings (input mode, surround mode, HDMI output mode, MultEQ®, Dynamic EQ®, Dynamic Volume®, audio delay etc.) last selected for the individual input sources.



The surround parameters, tone settings and the volumes of the different speakers are stored for the individual surround modes.

 Last function memory

This function stores the settings which were made before going into the standby mode.

When the power is turned back on, the settings are restored.

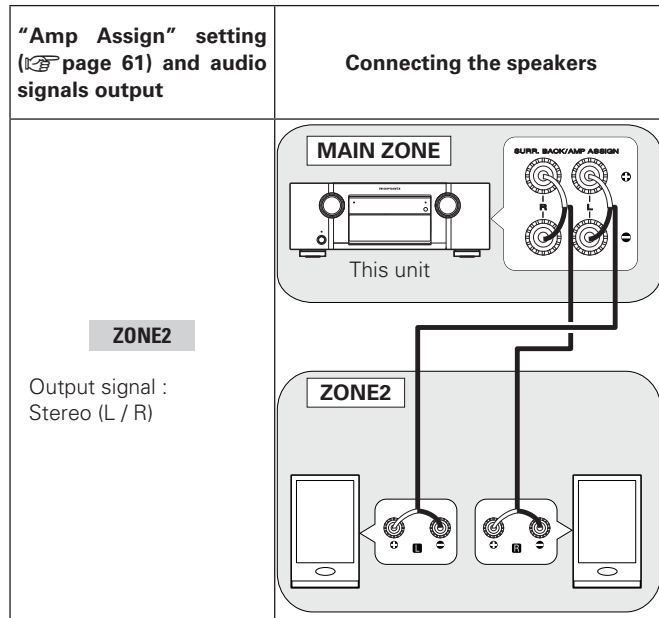
Playback in ZONE2 (Separate room)

- You can operate this unit so as to enjoy audio in a room (ZONE2) other than the MAIN ZONE (room where the unit is located).
- You can simultaneously play back the same source in both the MAIN ZONE and ZONE2. You can also play back separate sources in the MAIN ZONE and ZONE2.
- There are two methods to do this, as described below. Choose one of the methods.
 - ① ZONE2 playback by speaker output
 - ② ZONE2 playback by audio output (PRE OUT) (using an external amplifier)

① ZONE2 playback by speaker output

The ZONE2 audio signals are output from this unit's SURR.BACK/AMP ASSIGN speaker terminals using the amplifier assignment function.

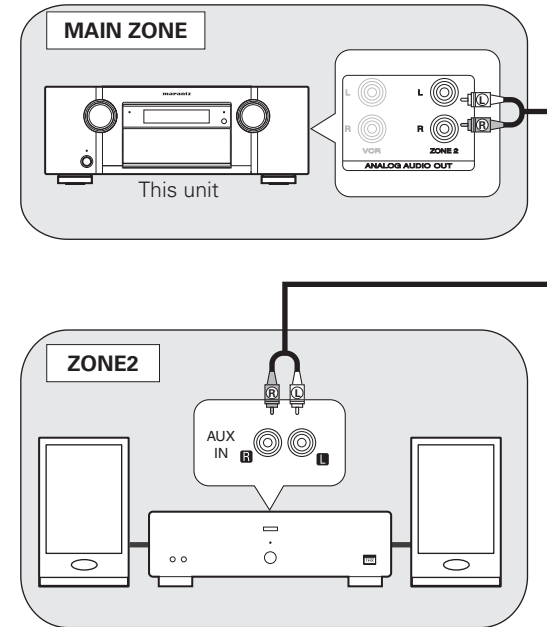
Connecting and setting the speakers



② ZONE2 playback by audio output

The audio signals connected to this unit's ZONE2 output terminals (ZONE2 OUT) are output to the ZONE2's amplifier and played with that amplifier.

Connection (ZONE2)



- We recommend using high quality pin-plug cables for audio connections in order to prevent noise.
- Also be sure to read the operating instructions of the connected devices.

NOTE

It is not possible to play the digital audio signals input from the HDMI, COAXIAL or OPTICAL terminals in ZONE2. Play using analog connections (in stereo).

Playback

1 Press **Z2** to switch the remote control operating mode.

The remote control unit switches to the operating mode for ZONE2.

2 Press **ON** to turn on the ZONE2 power.

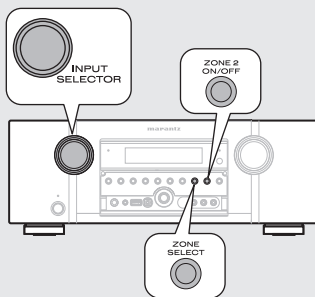
The **Z2** indicator on the display lights.

- When **STANDBY** is pressed, ZONE2 turns off.
- Power in ZONE2 can be turned on or off by pressing **ZONE2 ON/OFF** on the main unit.

3 Press **INPUT ▲▼**.

The audio signal of the selected source is output to ZONE2.

- Turn **INPUT SELECTOR** after pressing **ZONE SELECT** on the main unit to select an input source.



When power for both MAIN ZONE and ZONE2 is set to ON, power of the MAIN ZONE only can be turned off. Press **STANDBY**.



Adjusting the volume

Use **VOLUME + -** to adjust the volume.

[Adjustable range] --- **-80dB - -40dB - 18dB**

(When the "Volume Display" (page 66) setting is "Relative")

[Adjustable range] **0 - 41 - 99**

(When the "Volume Display" (page 66) setting is "Absolute")

- At time of purchase, "Volume Limit" (page 65) is set to "-10dB (71)".



Turn **MASTER VOLUME** after pressing **ZONE SELECT** on the main unit to adjust the sound volume.

Turning off the sound temporarily

Press **MUTE**.

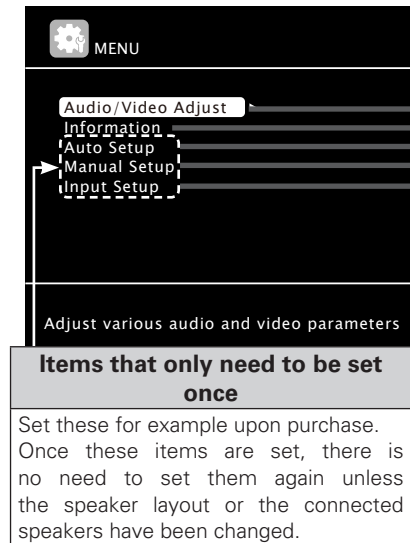
The sound is reduced to the level set at "Mute Level" (page 65) in the menu.

- To cancel, either adjust the volume or press **MUTE** again.
- The setting is canceled when the zone's power is turned off.

How to make detailed settings

Menu map

For menu operation, connect a TV to this unit and display the menu on the TV screen. For menu operations, see the following page.



Items that only need to be set once

Set these for example upon purchase. Once these items are set, there is no need to set them again unless the speaker layout or the connected speakers have been changed.

Setting items	Detailed items	Description	Page
1. Audio/Video Adjust AUDIO/VIDEO ADJUST Audio Adjust Picture Adjust	Audio Adjust	Adjusts various audio parameters.	56
	Picture Adjust	Adjusts the picture quality.	60
2. Information INFORMATION Status Audio Input Signal HDMI Information Preset Channel	Status	Shows information about current settings.	68
	Audio Input Signal	Shows information about audio input signals.	68
	HDMI Information	Displays the HDMI input/output signals and HDMI monitor information.	68
	Preset Channel	Shows information about tuner preset channels.	68
3. Auto Setup AUTO SETUP Audyssey Auto Setup Parameter Check	Audyssey Auto Setup	Makes the optimum settings for the speakers being used automatically.	7
	Parameter Check	Checks Audyssey® Auto Setup measurement results. This item is only displayed after Audyssey Auto Setup procedure has been performed.	11
4. Manual Setup MANUAL SETUP Speaker Setup HDMI Setup Audio Setup ZONE2 Setup Option Setup	Speaker Setup	Sets the speaker size and distance, the channel level, etc.	61
	HDMI Setup	Makes settings for HDMI video/audio output.	64
	Audio Setup	Makes settings for audio playback.	64
	ZONE2 Setup	Makes settings for audio playback in a ZONE2 system.	65
	Option Setup	Makes various other settings.	66
5. Input Setup (Example: TUNER) INPUT SETUP Auto Preset Preset Skip Preset Name Video Input Mode Rename Source Level	Auto Preset	Uses the auto preset function to program radio stations.	51
	Preset Skip	Sets the preset memories that you do not want to display when tuning.	51
	Preset Name	Assigns name to a preset memory.	51
	Input Assign	Changes input connector assignment.	52
	Video	Makes the video settings.	53
	Input Mode	Sets the audio input mode and decode mode.	54
	Rename	Changes the display name for this source.	55
	Source Level	Adjusts the playback level of the audio input.	55
	Playback Mode	Makes settings for iPod and USB memory device playback.	55

Displayed items of the "Input Setup" menu differs, depending on the selected input source.

Examples of menu and front display

Below we describe typical examples of displays on the TV screen and on the set's display window.

	Menu display	Front display	Description
Top menu display			<ol style="list-style-type: none"> The menu items are displayed here. The selected line is displayed here. The currently selected item is displayed on the display. Use $\Delta \nabla$ to move to the item you want to set.
Display when changing settings			<ol style="list-style-type: none"> Use $\Delta \nabla \triangleleft \triangleright$ to move to the item you want to set. Press ENTER to set to the mode in which the setting can be made. \triangleleft and \triangleright is displayed at the sides of item whose setting can be changed. Use $\triangleleft \triangleright$ to change to the desired setting.
Display when inputting characters			<ol style="list-style-type: none"> When $\triangleleft \triangleright$ is pressed, the cursor moves to the left or right. When $\Delta \nabla$ is pressed at the position where you want to input the character, the character is input. <p>For inputting characters on a keyboard screen or with the number buttons on the remote control unit, see page 49.</p>
Display when resetting			<ol style="list-style-type: none"> Press ∇ to select "Default", then press ENTER to set. Press \triangleleft to select "Yes", then press ENTER.

Inputting characters

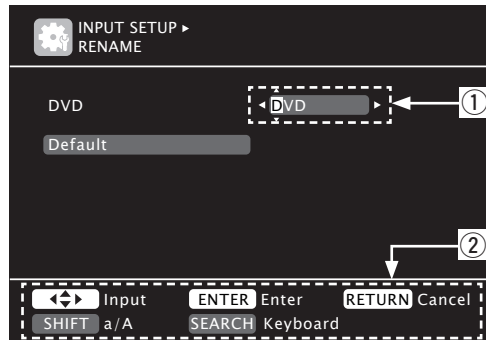
You can change the names as desired using the "Preset Name" (page 51), "Rename" (page 55) and "ZoneRename" (page 67). For inputting characters, there are three methods, as shown below.

Method for inputting characters

Method	Operations
Using the cursor buttons (Normal screen)	<ul style="list-style-type: none"> Operating with the remote control unit or the main unit. Use Δ ∇ \triangleleft \triangleright and ENTER to input characters.
Using the keyboard screen	<ul style="list-style-type: none"> Operating with the remote control unit. Select a character on the TV screen to input characters.

Normal screen

Display of a normal input screen



- ① Character input section
- ② Guide for operation buttons

Using the cursor buttons

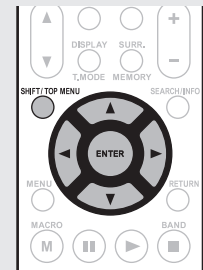
- 1** Display the screen for inputting characters (page 47 "Menu map").
- 2** Use \triangleleft \triangleright to set the cursor to the character you want to change.
- 3** Use Δ ∇ to change the character, then press **ENTER**.
 - The types of characters that can be input are as shown below.

[Upper case characters]
 ABCDEFGHIJKLMNOPQRSTUVWXYZ

[Lower case characters]
 abcdefghijklmnopqrstuvwxyz

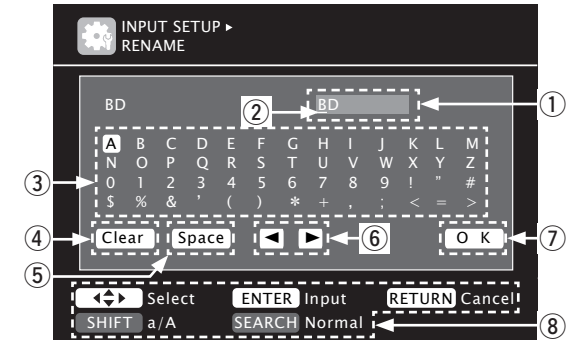
[Symbols] ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~

[Numbers] 0 1 2 3 4 5 6 7 8 9 (Space)


- 4** Repeat steps 2 and 3 to change the name then press **ENTER** to register it.



Keyboard screen

Display of a keyboard input screen




- ① Character input section
- ② Cursor
- ③ Keyboard section
- ④ Clear key
- ⑤ Space key
- ⑥ Cursor keys
- ⑦ OK key
- ⑧ Guide for operation buttons

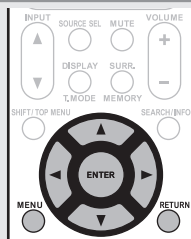
Inputting characters

- 1 Display the screen for inputting characters (☞ page 47 “Menu map”).
- 2 Press **SEARCH/INFO** while a normal screen is displayed.
A keyboard screen is displayed.
- 3 Select a character to be changed.
 - ① Press Δ ∇ \triangleleft \triangleright to select  or .
 - ② Press **ENTER** to place the cursor at the character to be changed.
Each time **ENTER** is pressed, the cursor moves by one character.
- 4 Select a character to be input with Δ ∇ \triangleleft \triangleright then press **ENTER**.
 - The types of characters that can be input are as shown below.

[Upper case characters/Numbers/Symbols]
 ABCDEFGHIJKLMNOPQRSTUVWXYZ
 0123456789
 ! " # \$ % & ' () * + , ; < = >

[Lower case characters/Numbers/Symbols]
 abcdefghijklmnopqrstuvwxyz
 0123456789
 . @ - _ / : ; ~ ? [\] ^ ` { | }

 - The input character type can be switched by pressing **SHIFT/TOP MENU** while the display name is being changed.
- 5 Repeat steps 3 and 4 to change the name.
- 6 Use Δ ∇ \triangleleft \triangleright to select , then press **ENTER**.



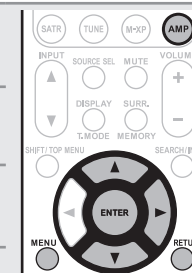
Input Setup

Perform settings related to input source playback.

- You do not have to change the settings to use the unit. Make settings when needed.

Menu operation

- 1 Press **AMP** to set the remote control unit to amplifier operation mode.
- 2 Press **MENU**.
The menu is displayed on the TV screen.
- 3 Use Δ ∇ to select the menu to be set or operated.
- 4 Press **ENTER** or \triangleright to enter the setting.
 - To return to the previous item, press **RETURN**.
 - Exiting the Menu, press **MENU** while the menu is displayed.
The menu display disappears.



Important information

 About the display of input sources

In this section, the configurable input sources for each item are shown as follows.



NOTE

Input sources that have been set to “Delete” at “Source Delete” (☞ page 66) cannot be selected.



Items that can be set with the Input Setup procedure

<p>Auto Preset (page 51)</p>	<p>Preset Skip (page 51)</p>	<p>Preset Name (page 51)</p>
<p>Input Assign (page 52)</p>	<p>Video (page 53)</p>	<p>Input Mode (page 54)</p>
<p>Rename (page 55)</p>	<p>Source Level (page 55)</p>	<p>Playback Mode (page 55)</p>

Auto Preset

Use the auto preset function to program radio stations.

Setting items	Setting details
<p>Start</p> <p>Start the auto preset process.</p> <p>TUNER</p>	<p>If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.</p>

Preset Skip

Default settings are underlined.

Set preset channel to be skipped when selecting.

Setting items	Setting details
<p>A – G</p> <p>Set the preset channels you do not want to display. You can set by preset memory block (A to G) or by preset channel (1 to 8).</p> <p>TUNER</p>	<p>1 – 8 : Set by individual preset channels in the currently selected preset memory block.</p> <ul style="list-style-type: none"> • ON : Display the selected preset channel. • Skip : Do not display the selected preset channel. <p>If you set "Block Presets" to "Skip", you can skip the preset memory blocks (A to G).</p>

Preset Name

Assign name to a preset memory.

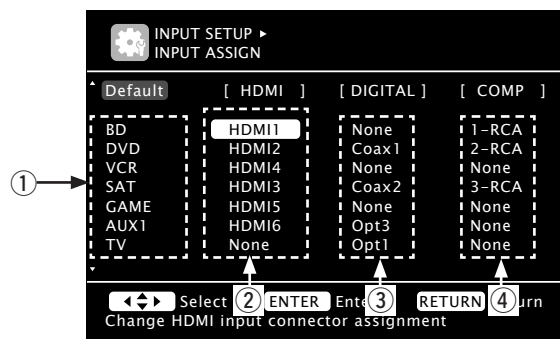
Setting items	Setting details
<p>A1 – G8</p> <p>Select the preset channel.</p> <p>TUNER</p>	<ul style="list-style-type: none"> • Up to eight characters can be input. • For character input, see page 49.
<p>Default</p> <p>The changed preset name is returned to the default setting.</p>	<p>Yes : Reset to the defaults.</p> <p>No : Do not reset to the defaults.</p>



Input Setup

Input Assign

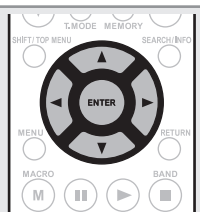
Examples of input assign menu screen displays



- ① Input Source
- ② HDMI input
- ③ Digital audio input
- ④ Component video input

Input assignments menu operations

- 1** Use $\Delta \nabla \triangleleft \triangleright$ to move the highlight to the item you want to set.
- 2** Press **ENTER**, then use $\triangleleft \triangleright$ to select the input connector to be assigned.
- 3** Press **ENTER** to register the setting.



NOTE

If all "HDMI", "Digital" and "Component" assignment of the Game source are set to "None", Game source cannot be selected with the input source selection.

Setting items	Setting details																						
HDMI Set this to change the HDMI input connectors assigned to the input sources.	HDMI 1 / HDMI 2 / HDMI 3 / HDMI 4 / HDMI 5 / HDMI 6 None : Do not assign an HDMI input connector to the selected input source. <ul style="list-style-type: none"> At time of purchase, the settings of the different input sources are as shown below. <table border="1"> <thead> <tr> <th>Input source</th> <th>BD</th> <th>DVD</th> <th>VCR</th> <th>SAT</th> <th>GAME</th> <th>AUX1</th> <th>TV</th> </tr> </thead> <tbody> <tr> <td>Default setting</td> <td>HDMI 1</td> <td>HDMI 2</td> <td>HDMI 4</td> <td>HDMI 3</td> <td>HDMI 5</td> <td>HDMI 6</td> <td>None</td> </tr> </tbody> </table> <ul style="list-style-type: none"> An input source to which an HDMI input connector cannot be assigned is displayed as "----". To play the video signal assigned at "HDMI" combined with the audio signal assigned at "Input Assign" - "Digital", select "Digital" at "Input Mode" (page 54). The audio signals input from the analog and digital connectors are not output to the monitor. When "HDMI Control" (page 64) is set to "ON", HDMI input connector cannot be assigned to "TV". 	Input source	BD	DVD	VCR	SAT	GAME	AUX1	TV	Default setting	HDMI 1	HDMI 2	HDMI 4	HDMI 3	HDMI 5	HDMI 6	None						
Input source	BD	DVD	VCR	SAT	GAME	AUX1	TV																
Default setting	HDMI 1	HDMI 2	HDMI 4	HDMI 3	HDMI 5	HDMI 6	None																
Digital Set this to change the digital input connectors assigned to the input sources.	Coax1 - 2 (COAXIAL) / Opt1 - 3 (OPTICAL) None : Do not assign a digital input connector to the selected input source. <ul style="list-style-type: none"> At time of purchase, the settings of the different input sources are as shown below. <table border="1"> <thead> <tr> <th>Input source</th> <th>BD</th> <th>DVD</th> <th>VCR</th> <th>SAT</th> <th>GAME</th> <th>AUX1</th> </tr> </thead> <tbody> <tr> <td>Default setting</td> <td>None</td> <td>Coax 1</td> <td>None</td> <td>Coax 2</td> <td>None</td> <td>Opt 3</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Input source</th> <th>TV</th> <th>CD</th> <th>AUX2</th> </tr> </thead> <tbody> <tr> <td>Default setting</td> <td>Opt 1</td> <td>Opt 2</td> <td>None</td> </tr> </tbody> </table>	Input source	BD	DVD	VCR	SAT	GAME	AUX1	Default setting	None	Coax 1	None	Coax 2	None	Opt 3	Input source	TV	CD	AUX2	Default setting	Opt 1	Opt 2	None
Input source	BD	DVD	VCR	SAT	GAME	AUX1																	
Default setting	None	Coax 1	None	Coax 2	None	Opt 3																	
Input source	TV	CD	AUX2																				
Default setting	Opt 1	Opt 2	None																				



Move the cursor (Up/Down/Left/Right)



Confirm the setting

RETURN



Return to previous menu


Setting items	Setting details																									
<p>Component Set this to change the component video input connectors assigned to the input sources.</p> <table border="1"> <tr> <td>BD</td> <td>DVD</td> <td>VCR</td> </tr> <tr> <td>SAT</td> <td>GAME</td> <td>AUX1</td> </tr> <tr> <td>TV</td> <td></td> <td></td> </tr> </table>	BD	DVD	VCR	SAT	GAME	AUX1	TV			<p>1-RCA / 2-RCA / 3-RCA (Component video) None : Do not assign a component video input connector to the selected input source.</p> <ul style="list-style-type: none"> At time of purchase, the settings of the different input sources are as shown below. <table border="1"> <tr> <th>Input source</th> <th>BD</th> <th>DVD</th> <th>VCR</th> <th>SAT</th> <th>GAME</th> <th>AUX1</th> <th>TV</th> </tr> <tr> <td>Default setting</td> <td>1-RCA</td> <td>2-RCA</td> <td>None</td> <td>3-RCA</td> <td>None</td> <td>None</td> <td>None</td> </tr> </table> <p> An input source to which a component video input connector cannot be assigned is displayed as “---”.</p>	Input source	BD	DVD	VCR	SAT	GAME	AUX1	TV	Default setting	1-RCA	2-RCA	None	3-RCA	None	None	None
BD	DVD	VCR																								
SAT	GAME	AUX1																								
TV																										
Input source	BD	DVD	VCR	SAT	GAME	AUX1	TV																			
Default setting	1-RCA	2-RCA	None	3-RCA	None	None	None																			
<p>Default The “Input Assign” settings are returned to the default settings.</p>	<p>Yes : Reset to the defaults. No : Do not reset to the defaults.</p> <p> If you select “Default” and press ENTER, the message “Default Setting?” is displayed. Select “Yes” or “No”, and then press ENTER.</p>																									

Video

Default settings are underlined.

Set the source video.




* “GAME” or “TV” can be set when “HDMI” (page 52) or “Component” (page 53) has been assigned.

Setting items	Setting details
<p>Video Select Video of another input source is played back combined with the playing audio.</p>	<p>Source : Play the picture and sound of the input source. BD / DVD / VCR / SAT / GAME / AUX1 / TV : Select video input source to view. This can be set for individual input sources.</p> <p> “GAME” and “TV” can be selected only when a component video is assigned as an input source.</p> <p>NOTE</p> <ul style="list-style-type: none"> It is not possible to select HDMI input signals. Input sources for which “Delete” is selected at “Source Delete” (page 66) cannot be selected. This can also be set by pressing V.SEL on the remote control unit. 

Setting items	Setting details									
<p>Video Mode Make settings for video processing.</p> <table border="1"> <tr> <td>BD</td> <td>DVD</td> <td>VCR</td> </tr> <tr> <td>SAT</td> <td>GAME *</td> <td>AUX1</td> </tr> <tr> <td>TV *</td> <td></td> <td></td> </tr> </table>	BD	DVD	VCR	SAT	GAME *	AUX1	TV *			<p>Auto : Process video automatically based on the HDMI content information. Movie : Process video normally. Game : Always process video appropriate for game content.</p> <p></p> <ul style="list-style-type: none"> If “Video Mode” is set to “Auto”, the mode is switched according to the input contents. If a source is played in both MAIN ZONE (audio and video) and ZONE2 (audio only) modes in the same room, audio in MAIN ZONE and ZONE2 modes may sound out of synchronization, but this is not malfunction. In this case, setting to “Game” mode may improve audio synchronization.
BD	DVD	VCR								
SAT	GAME *	AUX1								
TV *										
<p>Video Convert The input video signal is converted automatically in conjunction with the connected TV (page 14 “Converting input video signals for output (Video conversion function)”).</p> <table border="1"> <tr> <td>BD</td> <td>DVD</td> <td>VCR</td> </tr> <tr> <td>SAT</td> <td>GAME *</td> <td>AUX1</td> </tr> <tr> <td>TV *</td> <td></td> <td></td> </tr> </table>	BD	DVD	VCR	SAT	GAME *	AUX1	TV *			<p>ON : The input video signal is converted. OFF : The input video signal is not converted.</p> <p></p> <ul style="list-style-type: none"> When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. In this case set “Video Convert” to “OFF”. When “Video Convert” is set to “OFF”, the video conversion function does not work. In this case, connect this unit and TV with the same type of cable.
BD	DVD	VCR								
SAT	GAME *	AUX1								
TV *										
<p>i/p Scaler Convert the input source’s resolution to the resolution set at “Resolution”.</p> <table border="1"> <tr> <td>BD</td> <td>DVD</td> <td>VCR</td> </tr> <tr> <td>SAT</td> <td>GAME *</td> <td>AUX1</td> </tr> <tr> <td>TV *</td> <td></td> <td></td> </tr> </table>	BD	DVD	VCR	SAT	GAME *	AUX1	TV *			<p>Analog : Use i/p scaler function for analog video signal. Analog & HDMI : Use i/p scaler function for analog and HDMI video signal. HDMI : Use i/p scaler function for HDMI video signal. OFF : Do not use i/p scaler function.</p> <p></p> <ul style="list-style-type: none"> “Analog & HDMI” and “HDMI” can be set for input sources for which an HDMI input connector is assigned. Which items can be set depend on the input source assigned to each input connector. This function is not effective when the input signal is x.v.Color, 3D, sYCC 601 color, Adobe RGB color, Adobe YCC 601 color or computer resolution.
BD	DVD	VCR								
SAT	GAME *	AUX1								
TV *										



Input Setup


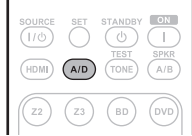


Setting items	Setting details									
Resolution Set the output resolution. Resolution (Analog) : Analog Video Resolution (HDMI) : HDMI <table border="1"> <tr> <td>BD</td> <td>DVD</td> <td>VCR</td> </tr> <tr> <td>SAT</td> <td>GAME *</td> <td>AUX1</td> </tr> <tr> <td>TV *</td> <td></td> <td></td> </tr> </table>	BD	DVD	VCR	SAT	GAME *	AUX1	TV *			Auto : The number of pixels the TV connected to the HDMI output connector supports is detected automatically and the appropriate output resolution is set. 480p / 576p / 1080i / 720p / 1080p / 1080p:24Hz : Set the output resolution.  <ul style="list-style-type: none"> This item can be set when "i/p Scaler" is set to anything other than "OFF". When "i/p Scaler" is set to "Analog & HDMI", the resolution of both the analog video input signal and HDMI input signal can be set. To watch 1080p/24Hz pictures, use a TV that supports 1080p/24Hz video signals. When set to "1080p/24Hz", you can enjoy film-like pictures for film sources (in 24 Hz). For video sources and mixed sources, we recommend setting the resolution to "1080p". It is not possible to convert a 50 Hz signal into 1080p/24Hz. It is output at a resolution of 1080p/50Hz.
BD	DVD	VCR								
SAT	GAME *	AUX1								
TV *										
Progressive Mode Set an appropriate progressive conversion mode for the source video signal. <table border="1"> <tr> <td>BD</td> <td>DVD</td> <td>VCR</td> </tr> <tr> <td>SAT</td> <td>GAME *</td> <td>AUX1</td> </tr> <tr> <td>TV *</td> <td></td> <td></td> </tr> </table>	BD	DVD	VCR	SAT	GAME *	AUX1	TV *			Auto : The video signal is automatically detected and the appropriate mode is set. Video1 : Select mode suitable for video playback Video2 : Select mode suitable for video and 30-frame film material playback.  This item can be set when "i/p Scaler" is set to anything other than "OFF".
BD	DVD	VCR								
SAT	GAME *	AUX1								
TV *										
Aspect Set the aspect ratio for the video signals output to the HDMI. <table border="1"> <tr> <td>BD</td> <td>DVD</td> <td>VCR</td> </tr> <tr> <td>SAT</td> <td>GAME *</td> <td>AUX1</td> </tr> <tr> <td>TV *</td> <td></td> <td></td> </tr> </table>	BD	DVD	VCR	SAT	GAME *	AUX1	TV *			Full : Output at 16:9 aspect ratio. Normal : Output at 4:3 aspect ratio.  "Aspect" can be set when "i/p Scaler" is set to anything other than "OFF".
BD	DVD	VCR								
SAT	GAME *	AUX1								
TV *										

* "GAME" or "TV" can be set when "HDMI" (page 52) or "Component" (page 53) has been assigned.

Input Mode

Default settings are underlined.

The input modes available for selection may vary depending on the input source.

Setting items	Setting details									
Input Mode Set the audio input modes for the different input sources. <table border="1"> <tr> <td>BD</td> <td>DVD</td> <td>VCR</td> </tr> <tr> <td>SAT</td> <td>GAME</td> <td>AUX1</td> </tr> <tr> <td>TV</td> <td>CD</td> <td>AUX2</td> </tr> </table>	BD	DVD	VCR	SAT	GAME	AUX1	TV	CD	AUX2	Auto : Automatically detect input signal and perform playback. HDMI : Play only signals from HDMI input. Digital : Play only signals from digital input. Analog : Play only signals from analog input. 7.1CH IN : Only signals input from the 7.1CH INPUT terminal will be played back.  <ul style="list-style-type: none"> This can also be set by pressing A/D on the remote control unit. Each time A/D is pressed, the setting is changed as shown below. <div style="text-align: right;">  </div> <div style="text-align: center; margin-top: 10px;">  </div> <ul style="list-style-type: none"> "HDMI" can be set for input sources for which "HDMI" is assigned at "Input Assign" (page 52). "Digital" can be set for input sources for which "Digital" is assigned at "Input Assign" (page 52). If the input source is set to "TV" or "Game", it cannot be set to "Analog". When digital signals are properly input, the DIG. indicator lights on the display. If the DIG. indicator does not light, check the digital input connector assignment and the connections. The surround mode cannot be set if the input mode is set to "7.1CH IN". If "HDMI Control" is set to "ON" and a TV compatible with the ARC is connected via the HDMI OUT connectors, the input mode whose input source is "TV" is fixed to ARC.
BD	DVD	VCR								
SAT	GAME	AUX1								
TV	CD	AUX2								
Decode Mode Set the decode mode for input source. <table border="1"> <tr> <td>BD</td> <td>DVD</td> <td>VCR</td> </tr> <tr> <td>SAT</td> <td>GAME</td> <td>AUX1</td> </tr> <tr> <td>TV</td> <td>CD</td> <td>AUX2</td> </tr> </table>	BD	DVD	VCR	SAT	GAME	AUX1	TV	CD	AUX2	 <ul style="list-style-type: none"> This item can be set for input sources for which "HDMI" or "Digital" is assigned at "Input Assign" (page 52). Normally set this mode to "Auto". Set "PCM" and "DTS" when inputting the corresponding input signal.
BD	DVD	VCR								
SAT	GAME	AUX1								
TV	CD	AUX2								

Rename

Change the display name of the selected input source.

Setting items	Setting details
Rename Change the display name of the selected input source.	<ul style="list-style-type: none"> Up to eight characters can be input. For character input, see page 49.
Default The input source name is returned to the default setting.	Yes : Reset to the defaults. No : Do not reset to the defaults.


Source Level

Default settings are underlined.

- This function corrects the playback level of the selected input source's audio input.
- Make this setting if there are differences in the input volume levels between the different sources.

Setting details

-12dB – +12dB (0dB)

-  The analog input level and digital input level can be adjusted independently for input sources for which "HDMI" or "Digital" is assigned at "Input Assign" (page 52).

Playback Mode

Make settings for repeat playback mode or random playback mode.

Setting items	Setting details
Repeat Make settings for repeat mode. USB/iPod	<input type="checkbox"/> For iPod playback All : All files are played repeatedly. One : A file being played is played repeatedly. OFF : Repeat playback mode is canceled. <input type="checkbox"/> For USB memory device playback All : All files are played repeatedly. One : A file being played is played repeatedly. Folder : A file in the folder being played is played repeatedly.
Shuffle Make settings for shuffle mode. USB/iPod	<input type="checkbox"/> For iPod playback Songs : Shuffle songs. Albums : Shuffle albums. OFF : Shuffle playback mode is canceled. <input type="checkbox"/> For USB memory device playback ON : Shuffle playback mode is enabled. OFF : Shuffle playback mode is canceled.

Remote control operation buttons



Move the cursor
(Up/Down/Left/Right)



ENTER Confirm the setting

RETURN



RETURN Return to previous menu

Audio/Video Adjust

The sound being played in the surround mode can be adjusted to your liking. The items (parameters) that can be adjusted depend on the signal being input and the currently set surround mode. For details on the adjustable parameters, see "Surround modes and surround parameters" (👉 page 83).

Menu operation

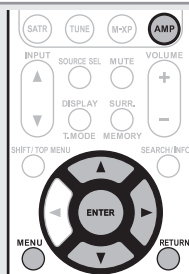
1 Press **AMP** to set the remote control unit to amplifier operation mode.

2 Press **MENU**.
The menu is displayed on the TV screen.

3 Use Δ ∇ to select the menu to be set or operated.

4 Press **ENTER** or \triangleright to enter the setting.

- To return to the previous item, press **RETURN**.
- Exiting the Menu, press **MENU** while the menu is displayed. The menu display disappears.



Items that can be set with the Audio Adjust procedure

Audio Adjust (👉 page 56)

- Surround Parameter** (👉 page 56)
- Tone** (👉 page 57)
- Audyssey Settings** (👉 page 57)
- Manual EQ** (👉 page 59)
- M-DAX** (👉 page 59)
- Audio Delay** (👉 page 59)

Picture Adjust (👉 page 60)

Audio Adjust

Surround Parameter

Default settings are underlined.

Adjust surround sound parameters. It may not be possible to set this item depending on the input signal.

Setting items	Setting details
HT-EQ Soften the treble range of movie soundtracks for better understanding.	ON : "HT-EQ" is used. OFF : "HT-EQ" is not used.
DRC Compress dynamic range (difference between loud and soft sounds).	Auto : Automatic dynamic range compression on/off control according to source. This can be set in the Dolby TrueHD mode. Low / Mid / High : These set the compression level. OFF : Dynamic range compression always off.
D.Comp Compress dynamic range (difference between loud and soft sounds).	Low / Mid / High : These set the compression level. OFF : Turn dynamic range compression off.
LFE Adjust the low-frequency effects level (LFE).	-10dB - 0dB For proper playback of the different sources, we recommend setting to the values below. <ul style="list-style-type: none"> • Dolby Digital sources : "0dB" • DTS movie sources : "0dB" • DTS music sources : "-10dB"
C.Image Assign center channel signal to front left and right channels for wider sound.	0.0 - 1.0 (0.3)
Panorama Assign front L/R signal also to surround channels for wider sound.	ON : Set. OFF : Do not set.
Dimension Shift sound image center to front or rear to adjust playback balance.	0 - 6 (3)
C.Width Assign center channel signal to front left and right channels for wider sound.	0 - 7 (3)






Setting items	Setting details
Height Gain Control the front height channel volume.	Low : Reduce the front height channel volume. Mid : Front height channel sound is output with standard sound volume. High : Increase the front height channel volume. NOTE "Height Gain" is displayed for the following settings. <ul style="list-style-type: none"> • When "Amp Assign" (🔧 page 61) is set to "Normal". • When the "Speaker Config." – "F.Height" setting (🔧 page 62) is set other than to "None". • When surround mode is "PLIIz" or the PLIIz decoder is used.
Default The "Surround Parameter" settings are returned to the default settings.	Yes : Reset to the defaults. No : Do not reset to the defaults.

□ Tone

Default settings are underlined.

Adjust the tonal quality of the sound.

Setting items	Setting details
Tone Control Set the tone control function to ON and OFF.	ON : Allow tone adjustment (bass, treble). OFF : Playback without tone adjustment.  "Tone Control" can be set when "Dynamic EQ" (🔧 page 58) is set to "OFF". NOTE <ul style="list-style-type: none"> • "Tone Control" settings are not reflected to ZONE2. • The tone cannot be adjusted in the direct mode.
Bass Adjust low frequency range (bass).	-6dB – +6dB  "Bass" can be set when "Tone Control" is set to "ON".
Treble Adjust high frequency range (treble).	-6dB – +6dB  "Treble" can be set when "Tone Control" is set to "ON".




□ Audyssey Settings

Default settings are underlined.

Set MultEQ®, Dynamic EQ® and Dynamic Volume®. These can be selected after Audyssey® Auto Setup has been performed. For additional information on Audyssey technology, please see page 88.



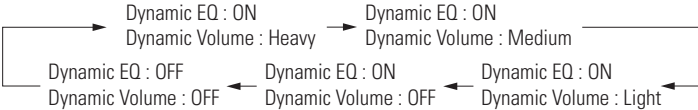

NOTE



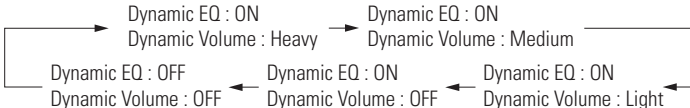
If you have not performed Auto Setup, or if you change the speaker settings after performing Auto Setup, you may not be able to select Dynamic EQ/Dynamic Volume, and "Run Audyssey" may be displayed. In this case, either perform Audyssey Auto Setup over again or perform "Restore" (🔧 page 11) to return to the settings after Audyssey Auto Setup was run.

Setting items	Setting details
MultEQ Select one equalizer from three modes. MultEQ corrects both time and frequency response problems in the listening area based on Audyssey Auto Setup calibration. We recommend "Audyssey". MultEQ is the prerequisite function for Dynamic EQ and Dynamic Volume.	Audyssey : Optimize the frequency response of all speakers. Audyssey Byp.L/R : Optimize frequency response of speakers except front L and R speakers. Audyssey Flat : Optimize frequency response of all speakers to flat response. Manual : Apply frequency response set with "Manual EQ" (🔧 page 59). OFF : Turn "MultEQ" equalizer off.  <ul style="list-style-type: none"> • "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be selected after Audyssey Auto Setup has been performed. "Audyssey" is automatically selected after performing Audyssey Auto Setup. When "Audyssey", "Audyssey Byp. L/R" or "Audyssey Flat" is selected,  illuminates. • After running Audyssey Auto Setup, if the Speaker Configuration, Distance, Channel Level, and Crossover Frequency have changed without increasing the number of speakers measured, only  illuminates. • Press MULTEQ on the remote control unit to set this setting. NOTE <ul style="list-style-type: none"> • "MultEQ" and "Manual" cannot be selected when "EQ Customize" is set to "Not Used" (🔧 page 64). • When using headphones, "MultEQ" is automatically set to "OFF".



Audio/Video Adjust

Setting items	Setting details
<p>Dynamic EQ®</p> <p>Solve the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Works with MultEQ.</p>	<p>ON : Use Dynamic EQ. OFF : Do not use Dynamic EQ.</p>  <ul style="list-style-type: none"> •  is displayed when set to "ON". • This can also be set by pressing DYN EQ/VOL on the remote control unit. <p>Each time DYN EQ/VOL is pressed, the setting is changed as shown below.</p> 
<p>Reference Level Offset</p> <p>Audyssey Dynamic EQ is referenced to the standard film mix level. It makes adjustments to maintain the reference response and surround envelopment when the volume is turned down from 0 dB. However, film reference level is not always used in music or other non-film content. Dynamic EQ Reference Level Offset provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard.</p>	<p>0dB (Film Ref) : This is the default setting and should be used when listening to movies. 5dB : Select this setting for content that has a very wide dynamic range, such as classical music. 10dB : Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference. 15dB : Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.</p> <p> Setting is enabled when "Dynamic EQ" is "ON" (page 58).</p>

Setting items	Setting details
<p>Dynamic Volume®</p> <p>Solve the problem of large variations in volume level between TV, movies and other content (between quiet passages and loud passages, etc.) by automatically adjusting to the user's preferred volume setting.</p>	<p>Heavy : Most adjustment to softest and loudest sounds. Medium : Medium adjustment to loudest and softest sound. Light : Least adjustment to loudest and softest sounds. OFF : Do not use "Dynamic Volume".</p>  <ul style="list-style-type: none"> •  is displayed when set to "ON". • If "Dynamic Volume" is set to "Yes" in Auto Setup (page 10), the setting is automatically changed to "Evening". • This can also be set by pressing DYN EQ/VOL on the remote control unit. <p>Each time DYN EQ/VOL is pressed, the setting is changed as shown below.</p> 



Manual EQ

Default settings are underlined.

Use the graphic equalizer to adjust the tone of each speaker.
 "Manual EQ" can be set when "MultEQ®" setting (page 57) is "Manual"

Setting items	Setting details
Adjust CH Correct the tone of each speaker.	① Select the speaker tone adjustment method. All : Adjust the tone of all speakers together. L/R : Adjust the tone of left and right speakers together. Each : Adjust the tone of each speaker. ② Select the speaker. ③ Select the adjustment frequency band. 63Hz / 125Hz / 250Hz / 500Hz / 1kHz / 2kHz / 4kHz / 8kHz / 16kHz • Select the speakers you want to adjust when "L/R" or "Each" is selected. ④ Adjust the level. -20.0dB - +6.0dB (0.0dB)
Base Curve Copy Copy "Audyssey Flat" curve from MultEQ®.	Yes : Copy. No : Do not copy. • "Base Curve Copy" is displayed after Audyssey® Auto Setup has been performed.
Default The "Manual EQ" settings are returned to the default settings.	Yes : Reset to the defaults. No : Do not reset to the defaults.

M-DAX

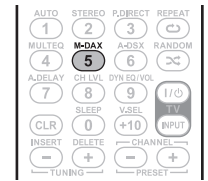
Default settings are underlined.

Compressed audio formats such as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The M-DAX function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also corrects the sense of volume of the bass to obtain richer sound with compressed audio signals.

Setting details

- OFF** : Do not use M-DAX.
- LOW** : Optimized mode for compressed sources with normal highs.
- MID** : Apply suitable bass and treble boost for all compressed sources.
- HIGH** : Optimized mode for compressed sources with very weak highs.

- This item can be set with analog signals or when a PCM signal (fs = 44.1/48 kHz) is input.
- This cannot be set when the surround mode is set to "DIRECT" or "PURE DIRECT".
- If a setting other than "OFF" is selected, the M-DAX indicator lights.
- This can also be set by pressing **M-DAX** on the remote control unit. Each time **M-DAX** is pressed, the setting is changed as shown below.



Audio Delay

Default settings are underlined.

While viewing video, manually adjust the time to delay audio output.

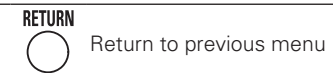
Setting details

0ms - 200ms

- This item can be set within the range of 0 to 200 ms when "Auto Lip Sync" is set to "ON" and when a TV compatible with Auto Lip Sync is connected.
- Store "Audio Delay" for each input source.
- Audio Delay for game mode can be set when "Video Mode" (page 53) is set to "Auto" or "Game".
- This can also be set by pressing **A.DELAY** on the remote control unit.



Remote control operation buttons



Audio/Video Adjust

Picture Adjust

Default settings are underlined.

- This item can be set when the input source is **BD** **DVD** **VCR** **SAT** **GAME** **AUX1** **TV**.
- With input sources other than the ones above, this item can be set when "Video Select" is selected. In this case, the original input source settings are called out.
- Can be set when the "Video Convert" setting (page 53) is "ON".
- "GAME" or "TV" can be set when "HDMI" (page 52) or "Component" (page 53) has been assigned.

Setting items	Setting details
Contrast Adjust picture contrast.	-6 - +6 (0)
Brightness Adjust picture brightness.	0 - +12
Chroma Level Adjust picture chroma level (saturation).	-6 - +6 (0)
Hue Adjust color hue.	-6 - +6 (0)
DNR Reduce overall picture noise.	OFF / Low / Mid / High
Enhancer Emphasize picture contours.	0 - +12



- "DNR" and "Enhancer" are each effective with HDMI output.
- The value set at "Picture Adjust" is stored in the memory individually for each input source.



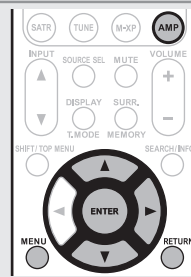
Manual Setup

Set when changing Audyssey® Auto Setup settings, or when changing the audio, video, display or other settings.

- If you change the speaker settings after performing Audyssey Auto Setup, it will not be possible to set MultEQ®, Dynamic EQ® and Dynamic Volume® (☞ page 57, 58).
- Can be used without changing the settings. Please set if necessary.

Menu operation

- 1 Press **AMP** to set the remote control unit to amplifier operation mode.
- 2 Press **MENU**.
The menu is displayed on the TV screen.
- 3 Press **△▽** to select the menu to be set or operated.
- 4 Press **ENTER** or **▷** to enter the setting.



- To return to the previous item, press **RETURN**.
- Exiting the Menu, press **MENU** while the menu is displayed. The menu display disappears.

Items that can be set with the Manual Setup procedure

<p>Speaker Setup (☞ page 61)</p> <p>Assign surround back AMP for other use</p>	<p>HDMI Setup (☞ page 64)</p> <p>Use video range from 16 (black) to 235 (white)</p>	<p>Audio Setup (☞ page 64)</p> <p>Set subwoofer playback level in 7.1ch IN mode</p>
<p>ZONE2 Setup (☞ page 65)</p> <p>Adjust low frequency range (bass)</p>	<p>Option Setup (☞ page 66)</p> <p>Make settings for volume control</p>	

Speaker Setup

Default settings are underlined.

- Perform when setting the speakers manually or when changing settings made in Audyssey Auto Setup.
- If you change the speaker settings after performing Audyssey Auto Setup, it will not be possible to select MultEQ, Dynamic EQ and Dynamic Volume (☞ page 57, 58).
 - Manual Setup can be used without changing the settings. Please set if necessary.

Setting items	Setting details
<p>Amp Assign Set the speakers connected to this unit.</p>	<p>Normal : Set when using 7.1-channel (Front/Center/Surround/Surround Back or Front height/Subwoofer) speakers. ZONE2 : Set for connecting the speakers for ZONE2 to the SURR.BACK/AMP ASSIGN terminals. SPKR-C : Set for connecting a tweeter of a front speaker to the SURR.BACK/AMP ASSIGN terminals and a woofer of a front speaker to the FRONT terminals.</p>
<p>Speaker Config. Select speaker configuration and size (bass reproduction capability).</p>	<p>Front : Set the front speaker size.</p> <ul style="list-style-type: none"> • Large : Use a large speaker that can adequately play back low frequencies. • Small : Use a small speaker that has inadequate playback capacity for low frequencies.
<p>NOTE</p> <p>Do not use the outward shape of the speaker to determine selection of a "Large" or "Small" speaker. Instead, use the frequencies set in "Crossover Frequency" (☞ page 63) as the standard for determining bass reproduction capability.</p>	<p>✎ When "Subwoofer" is set to "No", "Front" is automatically set to "Large".</p> <p>✎ When "Front" is set to "Small", "Center", "Surround", "S.Back" and "F.Height" can not be set to "Large".</p>
	<p>Center : Set the presence and size of the center speaker.</p> <ul style="list-style-type: none"> • Large : Use a large speaker that can adequately play back low frequencies. • Small : Use a small speaker that has inadequate playback capacity for low frequencies. • None : Select when a center speaker is not connected. <p>✎ "Large" is not displayed when "Front" is set to "Small".</p>
	<p>Subwoofer : Set the presence of a subwoofer.</p> <ul style="list-style-type: none"> • Yes : Use a subwoofer. • No : Select when a subwoofer is not connected. <p>✎ When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes".</p>

Remote control operation buttons



Move the cursor (Up/Down/Left/Right)






Confirm the setting


RETURN







Return to previous menu


Manual Setup

Setting items	Setting details
Speaker Config. (Continued)	<p>Surround : Set the presence and size of the surround speakers.</p> <ul style="list-style-type: none"> • Large : Use a large speaker that can adequately play back low frequencies. • Small : Use a small speaker that has inadequate playback capacity for low frequencies. • None : Select when the surround speakers are not connected. <p> When "Surround" is set to "Large", "S.Back" and "F.Height" can be set to "Large".</p> <p> When "Surround" is set to "None", "S.Back" and "F.Height" can automatically set to "None".</p> <hr/> <p>S.Back : Set the presence, size and number of surround back speakers.</p> <ul style="list-style-type: none"> • Large : Use a large speaker that can adequately play back low frequencies. • Small : Use a small speaker that has inadequate playback capacity for low frequencies. • None : Select when the surround back speakers are not connected. <ul style="list-style-type: none"> • 2spkr : Use two surround back speakers. • 1spkr : Use only one surround back speaker. When you select this setting, connect the surround back speaker to the left (L) channel. <p> Even when the "S.Back" setting is other than "None", sound may not be emitted from the surround back speaker, depending on the playback source.</p> <p>NOTE</p> <p>When "Amp Assign" setting (🔧 page 61) is other than "Normal", you cannot make the "S.Back" setting.</p> <hr/> <p>F.Height : Set the presence and size of the front height speakers.</p> <ul style="list-style-type: none"> • Large : Use a large speaker that can adequately play back low frequencies. • Small : Use a small speaker that has inadequate playback capacity for low frequencies. • None : Select when the front height speakers are not connected. <p>NOTE</p> <p>When "Amp Assign" setting (🔧 page 61) is other than "Normal", you cannot make the "F.Height" setting.</p>

Setting items	Setting details
Bass Setting Set subwoofer and LFE signal range playback.	<p>Subwoofer Mode : Select low range signals to be reproduced by subwoofer.</p> <ul style="list-style-type: none"> • LFE : The low range signal of the channel set to "Small" speaker size is added to the LFE signal output from the subwoofer. • LFE+Main : The low range signal of all channels is added to the LFE signal output from the subwoofer. <p> "Subwoofer Mode" can be set when "Speaker Config." – "Subwoofer" (🔧 page 61) is set to "Yes".</p> <ul style="list-style-type: none"> • Play music or a movie source and select the mode offering the strongest bass. • Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer. <p>NOTE</p> <p>If "Front" and "Center" for "Speaker Config." are set to "Large", and "Subwoofer Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode.</p> <hr/> <p>LPF for LFE : Set LFE signal playback range.</p> <ul style="list-style-type: none"> • 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz <hr/> <p>Distance Set distance from listening position to speakers. Measure beforehand the distance from the listening position to each speaker.</p> <p>Unit : Set the unit of distance.</p> <ul style="list-style-type: none"> • Meters / Feet <p>Step : Set the minimum variable width of the distance.</p> <ul style="list-style-type: none"> • 0.1m / 0.01m • 1ft / 0.1ft <hr/> <p>Front L / Front R / Center / Subwoofer / Surround L / Surround R / S.Back L* / S.Back R* / F.Height L / F.Height R : Select the speaker.</p> <p>* When the "Speaker Config." – "S.Back" setting (🔧 page 62) is set to "1spkr", "S.Back" is displayed.</p> <hr/> <ul style="list-style-type: none"> • 0.00m – 18.00m / 0.0ft – 60.0ft : Set the distance.



Setting items	Setting details
Distance (Continued)	 <ul style="list-style-type: none"> The speakers that can be selected differ depending on the "Amp Assign" (page 61) and "Speaker Config." (page 61) settings. Default settings : Front L / Front R / Center / Subwoofer / F.Height L / F.Height R : 3.6 m (12.0 ft) Surround L / Surround R / S.Back L / S.Back R : 3.0 m (10.0 ft) Set the difference in the distance between the speakers to less than 6.0 m (20 ft). <p>NOTE</p> <p>Speakers set to "None" in "Speaker Config." (page 61) are not displayed.</p> <p>Default : The "Distance" settings are returned to the default settings.</p> <ul style="list-style-type: none"> Yes : Reset to the defaults. No : Do not reset to the defaults.  <p>When you select "Default" and press ENTER, the "Default Setting?" prompt is displayed. Select either "Yes" or "No", and press ENTER.</p>
Channel Level Set the volume of the test tone to be the same when it is output from each speaker.	<p>Test Tone Start : Output test tone.</p> <ul style="list-style-type: none"> Front L / F.Height L / Center / F.Height R / Front R / Surround R / S.Back R * / S.Back L * / Surround L / Subwoofer : Select the speaker. * When the "Speaker Config." - "S.Back" setting (page 62) is set to "1spkr", "S.Back" is displayed. <ul style="list-style-type: none"> -12.0dB - +12.0dB (0.0dB) : Adjust the volume.  <ul style="list-style-type: none"> When \triangleleft is pressed while the subwoofer volume is set to "-12 dB", the "Subwoofer" setting switches to "OFF". When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 43. When you press TEST TONE on the remote control unit, you can enter this setting item immediately. <p>NOTE</p> <ul style="list-style-type: none"> Speakers set to "None" in the "Speaker Config." (page 61) settings are not displayed. When a headphones jack is inserted in the PHONES jack of this unit, the "Channel Level" is not displayed. <p>Default : The "Channel Level" settings are returned to the default settings.</p> <ul style="list-style-type: none"> Yes : Reset to the defaults. No : Do not reset to the defaults.  <p>When you select "Default" and press ENTER, the "Default Setting?" prompt is displayed. Select either "Yes" or "No", and press ENTER.</p>

Setting items	Setting details
Crossover Frequency Set the maximum frequency of the bass signal output from each channel to the subwoofer. Set the Crossover Frequency to suit the bass reproduction capability of the speaker being used.	<p>Crossover : Set the crossover frequency.</p> <ul style="list-style-type: none"> 40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz <p>Advanced : Specify crossover frequency for each speaker.</p> <ul style="list-style-type: none"> Front / Center / Surround / S.Back / F.Height : Select the speaker. 40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz : Set the crossover frequency.  <ul style="list-style-type: none"> "Crossover Frequency" can be set when the "Bass Setting" - "Subwoofer Mode" (page 62) setting is "LFE+Main", or when you have a speaker that is set to "Small". Always set the crossover frequency to "80Hz". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency. For speakers set to "Small", sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers. The speakers that can be set when "Advanced" is selected differ depending on to the "Subwoofer Mode" setting (page 62). <ul style="list-style-type: none"> When "LFE" is selected, speakers set to "Small" at "Speaker Config." can be set. If the speakers are set to "Large", "Full Band" is displayed and the setting cannot be made. If set to "LFE+Main", this setting can be made regardless of the speaker size.








Manual Setup

HDMI Setup

Default settings are underlined.

Make settings for HDMI video/audio output.




Setting items	Setting details
RGB Range Set the video range of RGB output from the HDMI connector.	Normal : Output with RGB video range (16 (black) to 235 (white)). Enhanced : Output with RGB video range (0 (black) to 255 (white)).  This setting is active when using a TV equipped with a DVI terminal.
Auto Lip Sync Make automatic compensation for timing shift in audio and video output.	ON : Compensated. OFF : Not compensated.
HDMI Audio Out Select HDMI audio output device.	AMP : Play back through speakers connected to the receiver. TV : Play back through TV connected to the receiver.  When the HDMI control function is activated, priority is given to the TV audio setting (☞ page 42 "HDMI control function").
HDMI Control You can link operations with devices connected to HDMI and compatible with HDMI Control.	ON : Use HDMI control function. OFF : Do not use HDMI control function.  <ul style="list-style-type: none"> When a device that is not compatible with the HDMI control function is connected, set "HDMI Control" to "OFF". Please consult the operating instructions for each connected component to check the settings. Refer to "HDMI control function" (☞ page 42) for more information about the HDMI control function. <p>NOTE</p> <ul style="list-style-type: none"> When "HDMI Control" is set to "ON", it consumes more standby power. If you are not using this unit for an extended period, it is recommended that you unplug the power cord from the power outlet. "HDMI Control" does not work when the power to the equipment is off. Either turn power on or set to standby. The HDMI control function controls operations of a TV that is compatible with the HDMI control function. Make sure that the TV and HDMI are connected when you perform HDMI control. If the "HDMI Control" settings have been changed, always reset the power to connected devices after the change.

Setting items	Setting details
Standby Source Sets the HDMI input source to put into standby when the power is on.	Last : This item is set at the last-used input source. HDMI1 / HDMI2 / HDMI3 / HDMI4 / HDMI5 / HDMI6 : Put the respective input source into standby.  "Standby Source" can be set when "HDMI Control" is set to "ON".
Power Off Control Links the power standby of this unit to external equipment.	All : If power to a connected TV is turned off independently of the input source, power to this unit is automatically set to standby. Video : If power to a connected TV is turned off when the input source is BD / DVD / VCR / SAT / GAME / AUX1 / TV, power to this unit is automatically set to standby. OFF : This unit does not link with power to a TV.  "Power Off Control" can be set when "HDMI Control" is set to "ON".

Audio Setup

Default settings are underlined.

Make settings for audio playback.





Setting items	Setting details
7.1ch IN SW Level Setup playback method for analog signals inputted from 7.1CH INPUT connectors.	Subwoofer Level : Set playback level of subwoofer signal input from the 7.1CH INPUT connector. <ul style="list-style-type: none"> ±10dB : This is the recommended level. +15dB / +5dB / 0dB : Select the level according to the player being used.
EQ Customize Set so that unused equalizer settings are not displayed when MULTEQ is pressed.	Audyssey Byp. L/R : Set when not using "Audyssey Byp. L/R" equalizer. <ul style="list-style-type: none"> Used : Use. Not Used : Do not use.  Set so that "Audyssey Byp. L/R" settings can be made when Audyssey® Auto Setup is performed.
	Audyssey Flat : Set when not using "Audyssey Flat" equalizer. <ul style="list-style-type: none"> Used : Use. Not Used : Do not use.  Set so that "Audyssey Flat" settings can be made when Audyssey Auto Setup is performed.
	Manual : Set when not using the "Manual" equalizer. <ul style="list-style-type: none"> Used : Use. Not Used : Do not use.




ZONE2 Setup

Default settings are underlined.

Set the audio to play back with ZONE2.

Setting items	Setting details
Bass Adjust low frequency range (bass).	-10dB – +10dB (<u>0dB</u>)
Treble Adjust high frequency range (treble).	-10dB – +10dB (<u>0dB</u>)
HPF Make settings for cutting the low range to reduce distortion in the bass.	ON : The low range is attenuated. OFF : The low range is not attenuated.
Level Lch Adjust the left channel output level.	-12dB – +12dB (<u>0dB</u>)  The "Level Lch" can be set when "Channel" (page 65) is set to "Stereo".
Level Rch Adjust the right channel output level.	-12dB – +12dB (<u>0dB</u>)  The "Level Rch" can be set when "Channel" (page 65) is set to "Stereo".
Channel Set the signal output from multi-zone.	Stereo : Select stereo output. Mono : Select mono output.
Volume Level Set the volume output level.	Variable : Volume adjustment is enabled by main unit and remote control unit. -40dB (<u>41</u>) : Fix volume at -40 dB. Set when adjusting volume by external amplifier. 0dB (<u>81</u>) : Fix volume at 0 dB. Set when adjusting volume by external amplifier.  When "Amp Assign" (page 61) is set to "ZONE2", the "Volume Level" setting is automatically set to "Variable".
Volume Limit Make a setting for maximum volume.	OFF : Do not set a maximum volume. -20dB (<u>61</u>) / -10dB (<u>71</u>) / 0dB (<u>81</u>)  <ul style="list-style-type: none"> This can be set when the multi-zone "Volume Level" setting (page 65) is "Variable". This is displayed from 0 to 99 when "Volume Display" (page 66) is set to "Absolute".

Setting items	Setting details
Power On Level Define the volume setting that is active when the power is turned on.	Last : Use the memorized setting from the last session. --- (<u>0</u>) : Always mute when power is turned on. -80dB – 18dB (<u>1 – 99</u>) : The volume is adjusted to the set level.  <ul style="list-style-type: none"> This can be set when the multi-zone "Volume Level" setting (page 65) is "Variable". This is displayed from 0 to 99 when "Volume Display" (page 66) is set to "Absolute".
Mute Level Set the amount of attenuation when muting is on.	Full : The sound is muted entirely. -40dB : The sound is attenuated by 40 dB down. -20dB : The sound is attenuated by 20 dB down.

Remote control operation buttons



Move the cursor (Up/Down/Left/Right)



Confirm the setting

RETURN





Return to previous menu


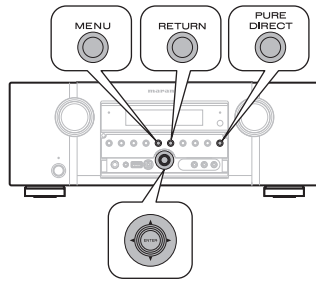

Manual Setup

Option Setup


Default settings are underlined.


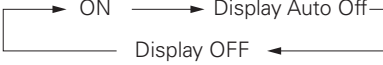
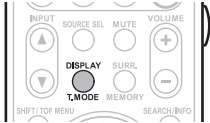
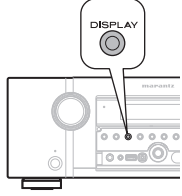

Make various other settings.

Setting items	Setting details
Volume Control Set the MAIN ZONE (room where the unit is located) volume setting.	Volume Display : Set how volume is displayed. <ul style="list-style-type: none"> • Relative : Display —dB (Min), in the range -80.5 dB - 18 dB. • Absolute : Display in the range 0 (Min) - 99.  <ul style="list-style-type: none"> • The "Volume Display" setting is applied also to the "Volume Limit" and "Power On Level" display method. • The "Volume Display" setting applies to all zones. Volume Limit : Make a setting for maximum volume. <ul style="list-style-type: none"> • OFF : Do not set a maximum volume. • -20dB (61) / -10dB (71) / 0dB (81) Power On Level : Define the volume setting that is active when the power is turned on. <ul style="list-style-type: none"> • Last : Use the memorized setting from the last session. • --- (0) : Always use the muting on condition when power is turned on. • -80dB - 18dB (1 - 99) : The volume is adjusted to the set level. Mute Level : Set the amount of attenuation when muting is on. <ul style="list-style-type: none"> • Full : The sound is muted entirely. • -40dB : The sound is attenuated by 40 dB down. • -20dB : The sound is attenuated by 20 dB down.
Source Delete Remove from the display input sources that are not used.	BD / DVD / VCR / SAT / GAME / AUX1 / USB/iPod / TV / CD / AUX2 / TUNER / M-XPort : Select input source that is not used. <ul style="list-style-type: none"> • ON : Use this source. • Delete : Do not use this source. <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>NOTE</p> <ul style="list-style-type: none"> • Input sources being used in the various zones cannot be deleted. • Input sources set to "Delete" cannot be selected using SOURCE SEL. </div> 
GUI Make the settings related to displays on the TV screen.	Screensaver : Make screensaver settings. <ul style="list-style-type: none"> • ON : The screensaver is activated during menu display, USB/iPod, iPod or TUNER screen display if no operation is performed for an approximately 3-minute continuous period. When you press $\Delta \nabla \triangleleft \triangleright$, the screensaver is cancelled and the screen before that screen saver started is displayed. • OFF : Screensaver is not activated.

Setting items	Setting details
GUI (Continued)	Wall Paper : Set wallpaper to display in the background when playback is stopped, etc. <ul style="list-style-type: none"> • Picture : Set the background to a picture (Marantz logo). • Black : Set the background to black. Format : Set the video signal format to be output for the TV you are using. <ul style="list-style-type: none"> • NTSC : Select NTSC output. • PAL : Select PAL output.  <p>"Format" can also be set by the following procedure. However, the menu screen is not displayed.</p> <ol style="list-style-type: none"> 1. Press and hold the main unit's PURE DIRECT and RETURN for at least 3 seconds. "Video Format" appears on the display. 2. Press $\triangleleft \triangleright$ and set the video signal format. 3. Press the main unit's ENTER, MENU or RETURN to complete the setting.  <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>NOTE</p> <p>When a format other than the video format of the connected TV is set, the picture will not be displayed properly.</p> </div> <p>Text : Display the details of operation when switching surround mode, input mode, etc.</p> <ul style="list-style-type: none"> • ON : Turn display on. • OFF : Turn display off. <p>Master Volume : Display the master volume during adjustment.</p> <ul style="list-style-type: none"> • Bottom : Display at the bottom. • Top : Display at the top. • OFF : Turn display off.  <p>When the master volume display is hard to see when superimposed on movie subtitles, set to "Top".</p> <p>USB : Set the USB/iPod screen display time when the input source is "USB/iPod".</p> <ul style="list-style-type: none"> • Always : Show display continuously. • 30sec : Show display for 30 seconds after operation. • 10sec : Show display for 10 seconds after operation. • OFF : Turn display off.



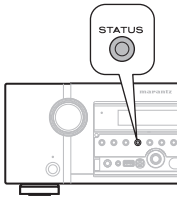
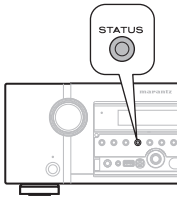
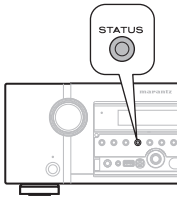
Setting items	Setting details
GUI (Continued)	<p>TUNER : Set the tuner screen display time when the input source is "TUNER".</p> <ul style="list-style-type: none"> • Always : Show display continuously. • 30sec : Show display for 30 seconds after operation. • 10sec : Show display for 10 seconds after operation. • OFF : Turn display off. <p>iPod : Set the iPod screen display time when the input source is "USB/iPod".</p> <ul style="list-style-type: none"> • Always : Show display continuously. • 30sec : Show display for 30 seconds after operation. • 10sec : Show display for 10 seconds after operation. • OFF : Turn display off.
Zone Rename Change the display title of each zone to one you prefer.	<ul style="list-style-type: none"> • Up to 10 characters can be input. • For character input, see page 49.
Trigger Out Select the condition for activating Trigger Out for the input source, surround mode, etc. See "DC OUT (TRIGGER OUT) jacks" (page 41) for more information on trigger out.	<p>Trigger Out</p> <p><input type="checkbox"/> When setting for zone (MAIN ZONE / ZONE2) Trigger out is activated through linkage to the power of the zone set to "ON".</p> <p><input type="checkbox"/> When setting for input source Activate trigger out when the input source set to "ON" is selected.</p> <p> Active for the zone set to "ON" with "When Setting for Zone".</p> <ul style="list-style-type: none"> • ON : Activate trigger on this mode. • --- : Do not activate trigger on this mode. <p>Default : The "Trigger Out" settings are returned to the default settings.</p> <ul style="list-style-type: none"> • Yes : Reset to the defaults. • No : Do not reset to the defaults.

Setting items	Setting details
Display Set the display on/off setting.	<p>ON : Display is always on.</p> <p>Display Auto OFF : Display is off except when showing the status display.</p> <p>Display OFF : Display is always off.</p> <p> This can also be set by pressing DISPLAY on the remote control unit or main unit. Each time DISPLAY is pressed, the setting is changed as shown below.</p> <p>  </p>  
Setup Lock Protect settings from inadvertent change.	<p>ON : Turn protection on.</p> <p>OFF : Turn protection off.</p> <p> When canceling the setting, set "Setup Lock" to "OFF".</p> <p>NOTE</p> <p>When "Setup Lock" is set to "ON", the settings listed below can no longer be changed. Also, "SETUP LOCKED!" is displayed if you attempt to operate related settings.</p> <ul style="list-style-type: none"> · Menu operations · M-DAX · Dynamic Volume[®] · Channel Level · MultEQ[®] · Dynamic EQ[®]



Information

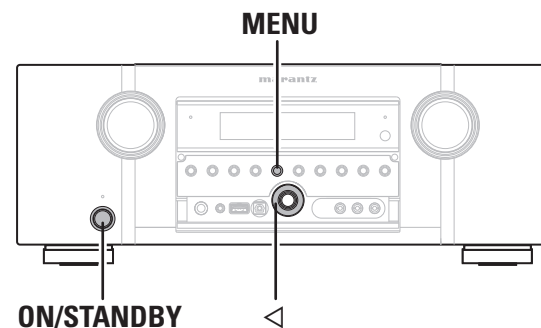
Show information about receiver settings, input signals, etc.

Items	Setting details			
Status Show information about current settings.	<input type="checkbox"/> MAIN ZONE This item shows information about settings for MAIN ZONE. The information displayed differs according to the input source. Select Source / Name / Surround Mode / Input Mode / Decode Mode / HDMI / Digital / Component / Video Select / Video Mode / Content Type / Video Convert / i/p Scaler / Resolution / Progressive Mode / Aspect etc.			
	<input type="checkbox"/> ZONE2 This item shows information about settings for ZONE2. Power / Select Source / Volume Level			
Audio Input Signal Show information about audio input signals.	Surround Mode : The currently set surround mode. Signal : The input signal type. fs : The input signal's sampling frequency. Format : The number of channels in the input signal (front, surround, LFE). Offset : The dialogue normalization correction value. Flag : This is displayed when inputting signals including a surround back channel. "MATRIX" is displayed with Dolby Digital EX and DTS-ES Matrix signals, "DISCRETE" with DTS-ES Discrete signals.			
	<table border="1"> <thead> <tr> <th>Dialogue normalization function</th> </tr> </thead> <tbody> <tr> <td> This function is automatically activated when playing Dolby Digital sources. It automatically corrects the standard signal level for individual program sources. The correction value can be checked using the STATUS. </td> </tr> <tr> <td> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Dial.Norm Offset - 4dB </div> <div style="text-align: right; margin-top: 10px;">  </div> <p>The figure is the corrected value. This cannot be changed.</p> </td> </tr> </tbody> </table>	Dialogue normalization function	This function is automatically activated when playing Dolby Digital sources. It automatically corrects the standard signal level for individual program sources. The correction value can be checked using the STATUS .	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Dial.Norm Offset - 4dB </div> <div style="text-align: right; margin-top: 10px;">  </div> <p>The figure is the corrected value. This cannot be changed.</p>
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HDMI Information Show information about HDMI input/output signals and monitor.	HDMI Signal Information • Resolution / Color Space / Pixel Depth HDMI Monitor Information • Interface / Supported resol.			
Preset Channel Show information about preset channels.	A / B / C / D / E / F / G A1 - A8 / B1 - B8 / C1 - C8 / D1 - D8 / E1 - E8 / F1 - F8 / G1 - G8			
<div style="border: 1px solid black; padding: 2px; display: inline-block;">TUNER</div>				

Other settings

Remote control settings

- When you connect a remote control receiver unit (purchased separately) to the REMOTE CONTROL IN terminal of this unit, use the following procedure to disable the remote sensor function of this unit.
- The remote sensor function of remote control signals is enabled by default.



Disabling the sensor function of the remote control unit

When the main unit is in standby mode, press **ON/STANDBY** while holding down **◀** and **MENU** on the main unit.

"Remote Lock:ON" is shown on the display, and the infrared light receiving function is disabled.

Enabling the remote sensor function

When the main unit is in standby mode, press **ON/STANDBY** while holding down **◀** and **MENU** on the main unit.

The infrared light receiving function on the main unit is enabled.

NOTE

If a remote control receiver unit (purchased separately) is not connected, do not perform this setting. If you do, you will not be able to operate this unit using the remote control unit.

Operating the connected devices by remote control unit

Registering the supplied preset codes in the remote control unit enables you to operate devices made by other manufacturers.

Operating AV equipment

1 Press the input source select button (☞ page 23).

The remote control operating mode switches as shown in the table below, and the mode name is shown in the remote control display.

NOTE

Press the input source select buttons once to switch the operation mode of the remote control unit supplied with this unit. Press the input source select buttons twice consecutively to switch the operation mode of the remote control unit and input source of this unit.



Input source select buttons	Input source of this unit	Devices controllable with the remote control unit (Operation mode)
BD *	BD	Device registered on the BD button
DVD *	DVD	Device registered on the DVD button
VCR	VCR	Device registered on the VCR button
SAT *	SAT	Device registered on the SAT button
GAME	GAME	Device registered on the GAME button
AUX1	AUX1	Device registered on the AUX1 button
NET/USB	USB/iPod	iPod or USB memory device connected to the USB port
TV *	TV	Device registered on the TV button
CD *	CD	Device registered on the CD button
TUNE	TUNER	Radio of this unit
M-XP	M-XPort	Device registered on the M-XP button

* If a preset code is registered for this button, the remote control unit of this unit can control another devices.

NOTE

If the mode of the remote control unit is set to other than amp-operation mode, press **AMP** to switch the remote control unit to the amp-operation mode to perform the following operations:

- For menu operation by pressing **MENU**
- For setting the channel level of the unit by pressing **CH LVL**
- For performing direct playback
- For switching MultEQ®, Dynamic EQ® and Dynamic Volume® settings.
- For using the Video Select function.
- For using the sleep timer function.
- For displaying the Source Select screen.
- For switching the M-DAX function.
- For directly selecting "AUTO" and "STEREO" of the listening modes.

2 Operate this unit or the device whose input source is switched.

- For details, refer to the operating instructions for each device. For operations of iPod and TUNER, see the following pages.
 - iPod (☞ page 25)
 - TUNER (☞ page 28)

Registering preset codes

When preset codes are registered in the included remote control unit, it can then be used to operate any devices you have, such as DVD players or TVs made by different manufacturers.

NOTE

- No preset codes other than **BD**, **DVD**, **TV**, **SAT** and **CD** can be registered.
- In the factory settings, remote control codes for all Marantz products are registered.

Buttons used for operating the devices

① SOURCE ON/OFF

For switching power of each device on or off.

② ▲▼◀▶, ENTER

For menu operation of each device.

③ MENU, SETUP, TOP MENU

For displaying the menu of each device.

④ ▶, ■, II, ◀◀, ▶▶, I◀◀, ▶▶I

⑤ Number button (0–9, +10)

⑥ PRESET +, PRESET –

⑦ TV POWER, TV INPUT

For operating a TV.

This button is enabled in any mode.

For details on operation with the remote control unit, see pages 26, 27, 30, 71.

Registering preset codes

The following two methods can be used for registering the reset code.

- ① Entering a 4-digit code
- ② Scanning the code table

① Entering a 4-digit code

See the preset code list table for the code to be input.

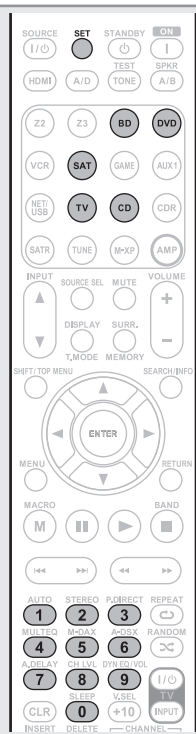
1 Press and hold down the input source select buttons for the appliance to control, and press SET until indicator blinks twice.

The back light flashes.

2 Press the 4-digit code for the appliance using the numeric buttons (code table at the end of this book).

- The 4-digit code is shown in the remote control display.
- When the settings are complete, "OK" is shown in the remote control display.

- If "NG" is displayed in the remote control display, repeat steps 1 and 2, and enter the same code again.



② Scanning the code table

1 Switch the power on of the device for which you want to set the preset code.

2 Press and hold down the input source select buttons for the appliance to control, and press SET until indicator blinks twice.

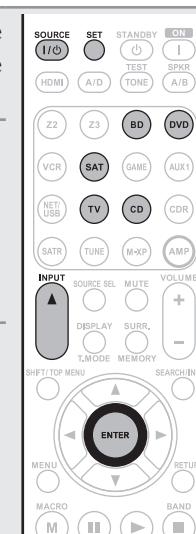
The back light flashes.

3 Aim the remote control at the appliance and slowly alternate between pressing INPUT ▲ and SOURCE ON/OFF for the appliance.

The preset code is shown in the remote control display.

4 Stop when the appliance turns off.

5 Press ENTER once to lock in the code.



Check the registered preset code

1 Press and hold down the input source select buttons for appliance to control, and press SET until indicator blinks twice and back light flashes.

The back light flashes.

2 Press SEARCH/INFO.

The display flashes twice, after which the set code is shown for 3 seconds in the remote control display.



Registering preset codes

Default settings for preset codes

The devices shown below are registered for each input source button as default. Settings can be changed according to the devices to be used.

1 Press and hold down the input source select buttons for appliance to control and press **SET** until indicator blinks twice.

The back light flashes.

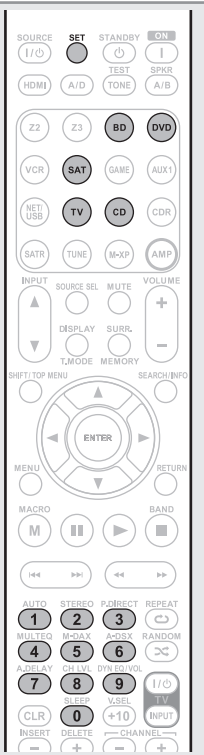
2 Enter the appropriate preset code (4 digits) from the table below.

The display flashes twice.

Input source select buttons	Category	Preset code
	Blu-ray Disc player	5000
	DVD player	2000
	Television	1000
	Satellite set top box	4000
	CD player	3000

NOTE

After this procedure, the selected source reset to its initial code.



Operating components

The supplied remote control unit can control a component other than this unit.

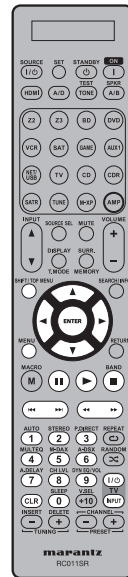
1 Switch the input source (page 23).

2 Operate the component.

- For details, refer to the component's operating instructions.

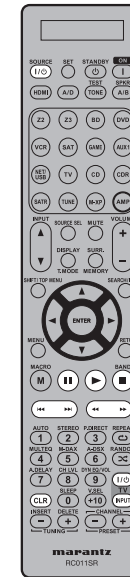


Blu-ray Disc player / HD-DVD player / DVD player / DVD recorder operation



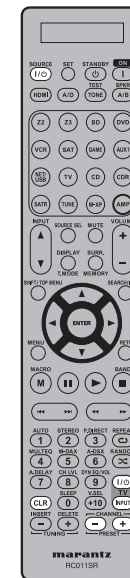
Operation buttons	Function
SOURCE ON/OFF	Power on/standby
MENU	(Popup) Menu
TOP MENU	Top menu
	Cursor operation
ENTER	Enter
	Manual search (fast-reverse/fast-forward)
	Playback
	Auto search (cue)
	Pause
	Stop
0 - 9	Select title, chapter or channel selection
CLR	Clear the inputting
TV POWER	TV power on/standby (Default : Marantz)
TV INPUT	Switch TV input (Default : Marantz)

CD player operation



Operation buttons	Function
SOURCE ON/OFF	Power on/off
	Manual search (fast-reverse/fast-forward)
	Playback
	Auto search (cue)
	Pause
	Stop
CLR	Clear the inputting
TV POWER	TV power on/standby (Default : Marantz)
TV INPUT	Switch TV input (Default : Marantz)

TV operation



Operation buttons	Function
SOURCE ON/OFF	TV power on/standby (Default : Marantz)
CHANNEL +, -	Switch channels (up/down)
CLR	Clear the inputting
TV POWER	TV power on/standby (Default : Marantz)
TV INPUT	Switch TV input (Default : Marantz)

Simple version

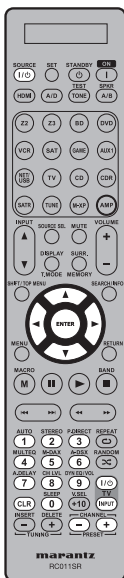
Basic version

Advanced version

Information

Operating components

□ Set top box for satellite (SAT) operation



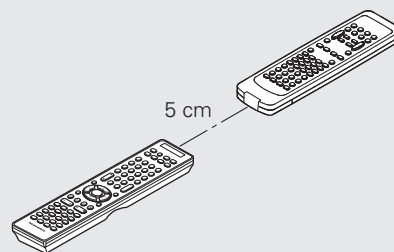
Operation buttons	Function
SOURCE ON/OFF	Power on/standby
CHANNEL +, -	Switch channels (up/down)
△▽◀▶	Cursor operation
ENTER	Enter
0-9	Channel selection
CLR	Clear the inputting
TV POWER	TV power on/standby (Default : Marantz)
TV INPUT	Switch TV input (Default : Marantz)

Operating learn function

- If the AV device is not a Marantz device, or if the device does not operate even when the preset code is registered, use the learning function. Remote codes for different devices can be remembered for use by the Marantz remote control included with this device.
- This remote control unit is capable of learning around 160 codes.

Remembering remote control codes from other devices

- 1 Place the Marantz remote control and remote control from the other device approximately 5 cm apart, with the remote control signal transmission sections facing each other.



- 2 Press and hold down **SET** and **SOURCE SEL** until the **LEARN** indicator blinks.

- 3 Press input source select buttons to select the input source.
The input source is shown in the remote control display.

- 4 Select the button to be learned.
LEARN indicator lights up.



- 5 Press and hold the button that you want to register on the other remote control until "OK" is displayed on the Marantz remote control display.

- If "NG" is shown on the remote control display, perform step 5 again. If "NG" is shown again on the remote control display, the remote control may not be able to learn the code correctly. In this case, use the specialized remote control for the device.
- If the remote control memory becomes full, "FULL" is shown on the remote control display. If you want to learn the code, you should erase other learned button.

- 6 Repeat steps 4 and 5 to learn other buttons for the same input source.

- 7 Repeat steps 3 to 6 to learn other input sources.

- 8 When programming of the remote control unit is completed, press **SET**.

The LEARN display disappears, and the remote control unit exits learn mode.

NOTE

- The learning function is unavailable for all **SOURCE ON/OFF**, **MACRO** and **HDMI** in any mode.
- The learning function is unavailable for all buttons in TUNER mode, AMP mode, NET/USB mode and M-XP mode.
- The learning procedure does not operate correctly if the batteries have become worn.
- If no buttons are pressed for approximately 1 minutes while in the LEARN mode, the remote control unit automatically exits from the LEARN mode.

Delete saved remote control codes

Codes can be erased in three ways: by buttons, sources, and by all memory contents.

❑ Delete remote control codes for each button

1 Press and hold down **SET** and **SOURCE SEL** until the **LEARN** indicator blinks.

2 Press input source select buttons to select the input source you want to delete.

The input source is shown in the remote control display.

3 Press and hold down **HDMI** and press the learned button to be erased twice.

"ERASE" is shown in the remote control display, and the mode returns to learning mode.

- To return the normal mode, press **SET**.



❑ Delete remote control codes for all input sources

1 Press and hold down **SET** and **SOURCE SEL** until the **LEARN** indicator blinks.

2 Press and hold down **HDMI** and press **ON** and **STANDBY**. **LEARN** indicator lights.

3 Press **ENTER** to continue erasing. "ERASE" is shown in the remote control display, and the mode returns to learning mode.

- To cancel the erasing operation, do not press **ENTER** and simply press any other button.
- To return the normal mode, press **SET**.

NOTE

Erasing codes will return to the factory preset code, or there will leave empty if the button has no factory preset code.



❑ Delete remote control codes for each input source

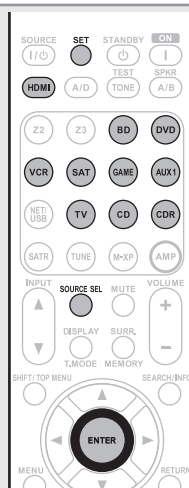
1 Press and hold down **SET** and **SOURCE SEL** until the **LEARN** indicator blinks.

2 Press and hold down **HDMI** and press the learned input source select buttons to be erased twice.

"ERASE" is shown in the remote control display.

3 Press **ENTER** to continue erasing. The **LEARN** indicator blinks twice and the mode returns to LEARN mode.

- To cancel the erasing operation, do not press **ENTER**, and simply press any other button.
- To return the normal mode, press **SET**.



Operating macro function

- When the macro function is used, operations that usually require a complicated series of multiple button operations can be performed easily just by pressing the **MACRO** button.
- This device can remember up to 6 macro functions.
- Each macro can record a maximum of 10 steps.

[Example] To playback a DVD

- ① Turn this unit's power on
↓
- ② Switch this unit's input source to DVD
↓
- ③ Turn the TV's power on
↓
- ④ DVD Playback

Recording macro operations

[Example] Recording DVD playback operations to the number "1" button

- 1 Press and hold SET and MACRO together until "MACRO" flashes in the LEARN indicator, MACRO indicator and remote control display.**



- 2 Press the macro operation number ("1") that you want to record to.**

"M1-01" is shown in the remote control display.

- If the number that you want to record to has already been recorded to, the recorded number flashes in the display.

- 3 Press the input source switch button ("DVD") of the operation that you want to record along with the command button ("▶").**

The macro operation step number is shown in the remote control display.

- To record the amp input source, press **AMP** first, followed by the input source switching button.

- 4 When the macro operation recording is complete, press and hold ENTER until the LEARN indicator and MACRO indicator switch off.**

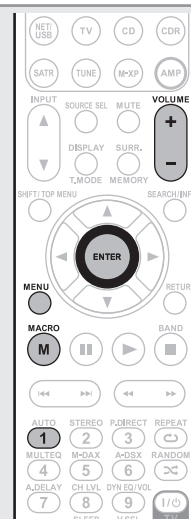
NOTE

The **RETURN**, $\Delta \nabla \triangleleft \triangleright$, **ENTER**, **VOLUME +, -** and **CLR** buttons cannot be recorded as macro operations.

Checking recorded macro operations

[Example] Checking the recorded macro operations to button "1"

- 1 Press and hold MACRO and MENU together until "MACRO" flashes in the LEARN indicator, MACRO indicator and remote control display.**



- 2 Press the number button ("1") that you want to check.**

The LEARN indicator, MACRO indicator and "M1-01" flashes in the remote control display.

- 3 Press the VOLUME +, -.**

- The LEARN indicator switches off, and "M1-01" is shown in the remote control display.
- The recorded macro operation is performed.

- 4 Repeat step 3 until the final number of the macro operation is displayed.**

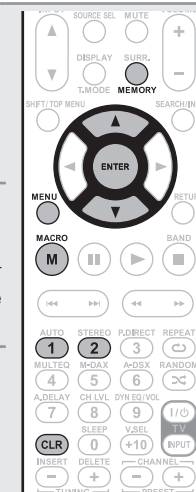
- The display returns to that of step 1.
- When the macro operation number is displayed, the corresponding macro operation is performed.

- 5 When the macro operation check is complete, press and hold ENTER until the MACRO indicator switches off.**

Editing recorded macro operations

[Example] Changing macro operation "1" recorded on number button "▶" to "■", and changing the number button to "2"

- 1 Press and hold MACRO and MENU together until "MACRO" flashes in the LEARN indicator, MACRO indicator and remote control display.**



- 2 Press the number button ("1") that you want to change.**

The LEARN indicator, MACRO indicator and "M1-01" flashes in the remote control display.

- 3 Press $\Delta \nabla$ to select the macro operation button ("2") to edit.**

After the macro operation button is displayed, the recorded operation is performed.

- When the macro operation is updated as a recorded step, press the input source switching button, and then press the new step button ("2").
- To insert a new macro operation between recorded steps, after performing step 3, press **MEMORY** and then press the new step button ("2").
When a new step is introduced, if the total number of steps is already 10, the 10th step is deleted after the new step is introduced.
- To delete recorded macro operations, after step 3, call the step number that you want to delete, and press **CLR**.
- To return to step 1, press **ENTER**.

- 4 When the macro operation edit is complete, press and hold ENTER until the MACRO indicator switches off.**

Using macro operations

[Example] Using the recorded macro operations to button "1"

1 Press the MACRO.
"MACRO" is shown in the MACRO indicator and remote control display.

2 Press the number button ("1") that you want to use.

Macro operations recorded to number button "1" are performed one at a time.

- The step number shown in the remote control display disappears after the step is performed.
- When all macro operations are completed, the remote control returns to the amp operation mode.



Deleting recorded macro operations

[Example] Deleting the macro operations recorded to button "2"

1 Press and hold MACRO and MENU together until "MACRO" flashes in the LEARN indicator, MACRO indicator and remote control display.

2 Press and hold CLR and the number ("2") that you want to delete for approximately 3 seconds.

"M2-CL" flashes in the remote control display.

3 Press the ENTER.
The recorded macro operation is deleted, and the remote control returns to step 1.

- To cancel the macro delete operation, press a different button without pressing ENTER.

4 When the macro operation delete is complete, press and hold ENTER until the MACRO indicator switches off.



Adjusting the interval time of macro operations transmitting

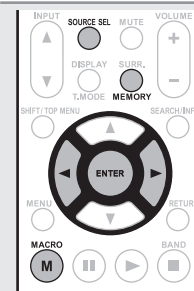
The macro operation transmission interval can be adjusted.

- The factory setting is "1 second".

1 Press and hold MACRO and SOURCE SEL until "SETUP" is shown in the remote control display.

"SETUP" is shown for 3 seconds in the remote control display, after which "MCR05z" is displayed.

- * The current transmission interval is shown.



2 Press < > to change to the desired transmission interval.

- The interval time can be changed from 0.5 to 5 seconds by 0.5 seconds step.

3 When the adjustment is complete, press and hold ENTER until the MACRO indicator switches off.

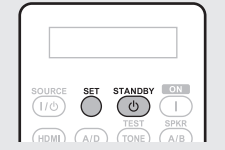
Setting the back light

Press the Light button on the side of the remote control, and the buttons on the remote control light for 2 seconds. If the Light button is pressed while the buttons are lit, the buttons remain lit for another 2 seconds.

- Backlight is set on in the factory settings.

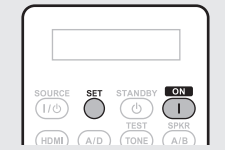
Disabling the backlight

Press and hold both SET and STANDBY until indicator flashes twice.








Turning the backlight on

Press and hold both SET and ON until indicator flashes twice.



Information

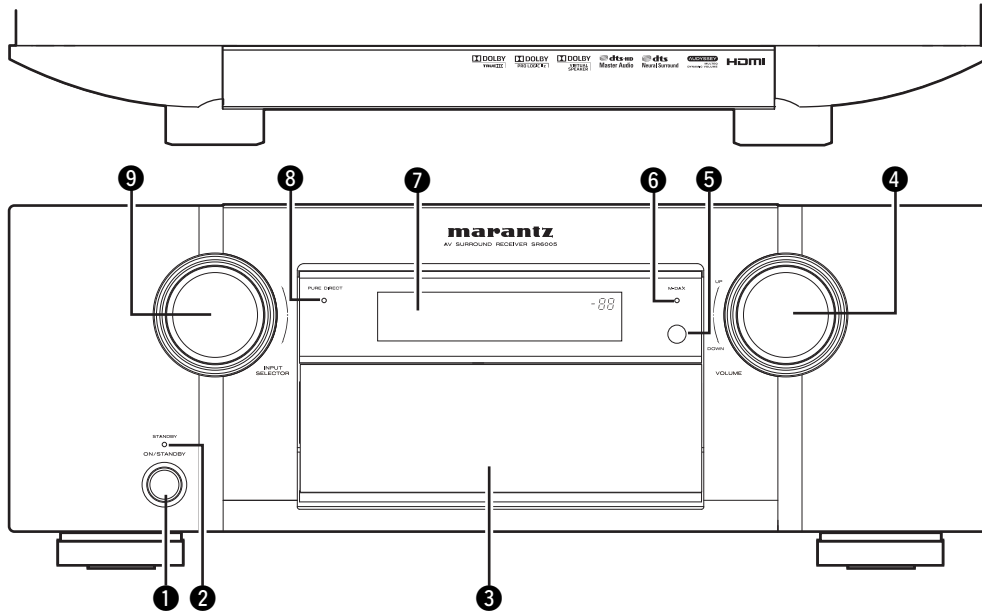
Here, we list various information related to this unit.
Please refer to this information as needed.

- Part names and functions  page 77
- Other information  page 82
- Troubleshooting  page 90
- Specifications  page 93
- Index  page 94

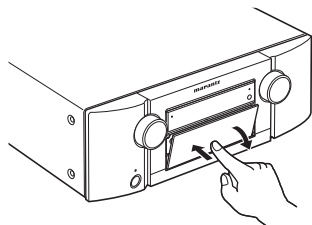
Part names and functions

Front panel

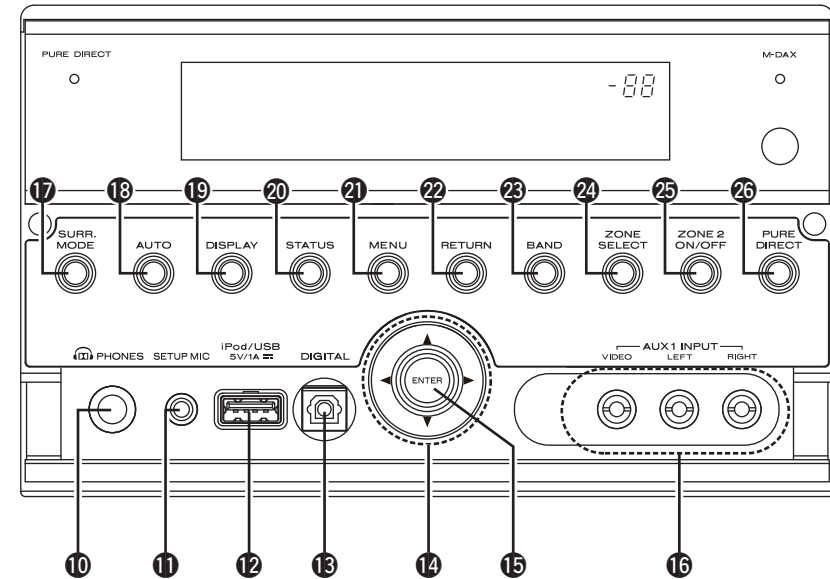
For buttons not explained here, see the page indicated in parentheses ().



- 1 Power operation button (ON/STANDBY)** (7, 12)
Turns power to this unit on and off (standby).
- 2 Power indicator** (12)
- 3 Door**
When you are using buttons and/or terminals behind the door, press the bottom of the door to open it. When not using buttons and/or terminals behind the door, close it. Be careful not to catch your fingers when closing the door.
- 4 VOLUME control knob** (24)
- 5 Remote control sensor** (81)
- 6 M-DAX indicator** (59)
- 7 Display** (78)
- 8 PURE DIRECT indicator** (33)
- 9 INPUT SELECTOR knob** (23)

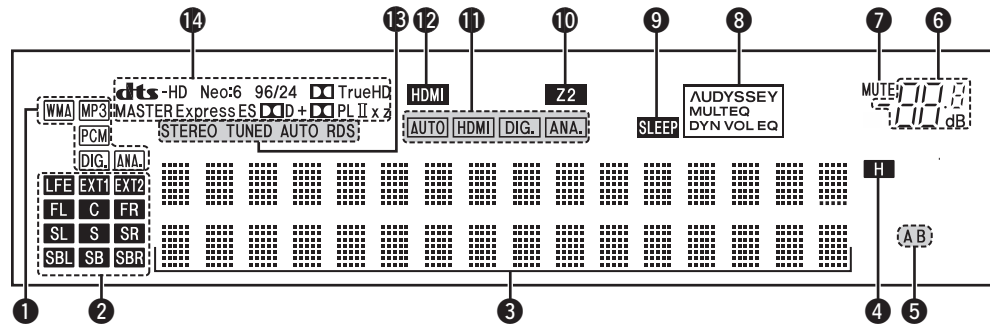


[With the door open]



- 10 Headphones jack**
When the headphones are plugged into this jack, audio will no longer be output from the connected speakers or from the PRE OUT connectors.
- NOTE**
To prevent hearing loss, do not raise the volume level excessively when using headphones.
- 11 SETUP MIC jack** (9, 39)
- 12 iPod/USB port** (19)
- 13 DIGITAL connector** (19)
- 14 Cursor buttons (Δ ▽ ◀ ▶)** (48 – 50)
- 15 ENTER button** (48 – 50)
- 16 AUX1 INPUT connectors** (19)
- 17 SURROUND MODE button** (31)
- 18 AUTO button** (30, 31, 44, 92)
- 19 DISPLAY button** (30, 67)
- 20 STATUS button** (68)
- 21 MENU button** (50)
- 22 RETURN button** (48 – 50)
- 23 BAND button** (28)
- 24 ZONE SELECT button** (46)
- 25 ZONE2 ON/OFF button** (46)
- 26 PURE DIRECT button** (33)

Display



1 Input signal indicators

2 Input signal channel indicators

These light when digital signals are input.

When playing HD Audio sources, the **EXT1** indicator lights when a signal from an extension channel (a channel other than the front, center, surround, surround back or LFE channel) is input.

If there are two or more extension channels, the **EXT1** and **EXT2** indicators light.

3 Information display

The input source name, surround mode, setting values and other information are displayed here.

4 Front height channel indicators

When audio is output from the front height channels, the "H" indicator lights.

5 Front speaker indicator

This lights according to the setting of the front A and B speakers.

6 Master volume indicator

7 MUTE indicator

This lights when the mute mode is select (page 24).

8 AUDYSSEY indicators

Lighting is as follows, depending on the setting of "Dynamic EQ" (page 58) and "Dynamic Volume" (page 58).

AUDYSSEY
MULTEQ
DYN VOL

When "Dynamic EQ" and "Dynamic Volume" are "ON".

AUDYSSEY
MULTEQ
DYN EQ

When "Dynamic EQ" is "ON" and "Dynamic Volume" is "OFF".

AUDYSSEY
MULTEQ

When "Dynamic EQ" and "Dynamic Volume" are "OFF".

9 Sleep timer indicator

This lights when the sleep mode is selected (page 43).

10 ZONE2 indicator

This lights up when ZONE2 (separate room) power is turned on (page 46).

11 Input mode indicators

Set the audio input modes for the different input sources (page 54).

12 HDMI indicator

This lights when playing using HDMI connections.

13 Tuner reception mode indicators

These light according to the reception conditions when the input source is set to "TUNER".

STEREO : In the FM mode, this light when receiving stereo broadcasts.

TUNED : Lights when the broadcast is properly tuned in.

AUTO : This light when in the auto tuning mode.

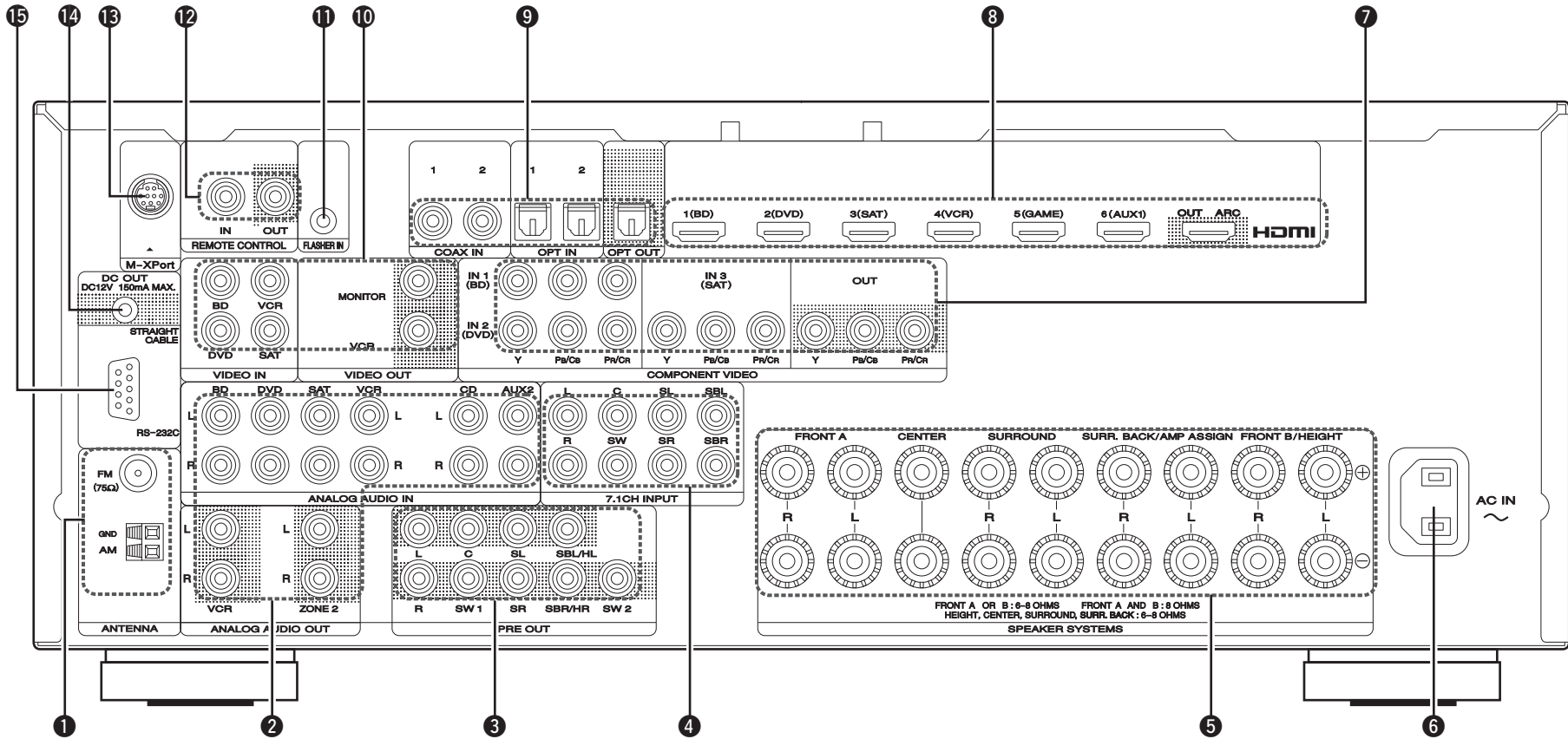
RDS : This light when receiving RDS broadcasts.

14 Decoder indicators

These light when the respective decoders are operating.

Rear panel

See the page indicated in parentheses ().



- ❶ FM/AM antenna terminals (20)
- ❷ Analog audio connectors (17 – 22)
- ❸ PRE OUT connectors (6, 22, 36 – 38)
- ❹ 7.1CH INPUT connectors (21)
- ❺ Speaker terminals (6, 36 – 38)
- ❻ AC inlet (AC IN) (6)
- ❼ COMPONENT VIDEO connectors (17, 18)
- ❽ HDMI connectors (16)
- ❾ Digital audio connectors (17 – 20)
- ❿ VIDEO connectors (17 – 19)
- ⓫ FLASHER IN jack
Used when using a control BOX or other such control devices to control this unit.
- ⓬ REMOTE CONTROL jacks (40)
- ⓭ M-XPport jack (21)
- ⓮ DC OUT jacks (41)
- ⓯ RS-232C connector (41)

NOTE

Do not touch the inner pins of the connectors on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Simple version

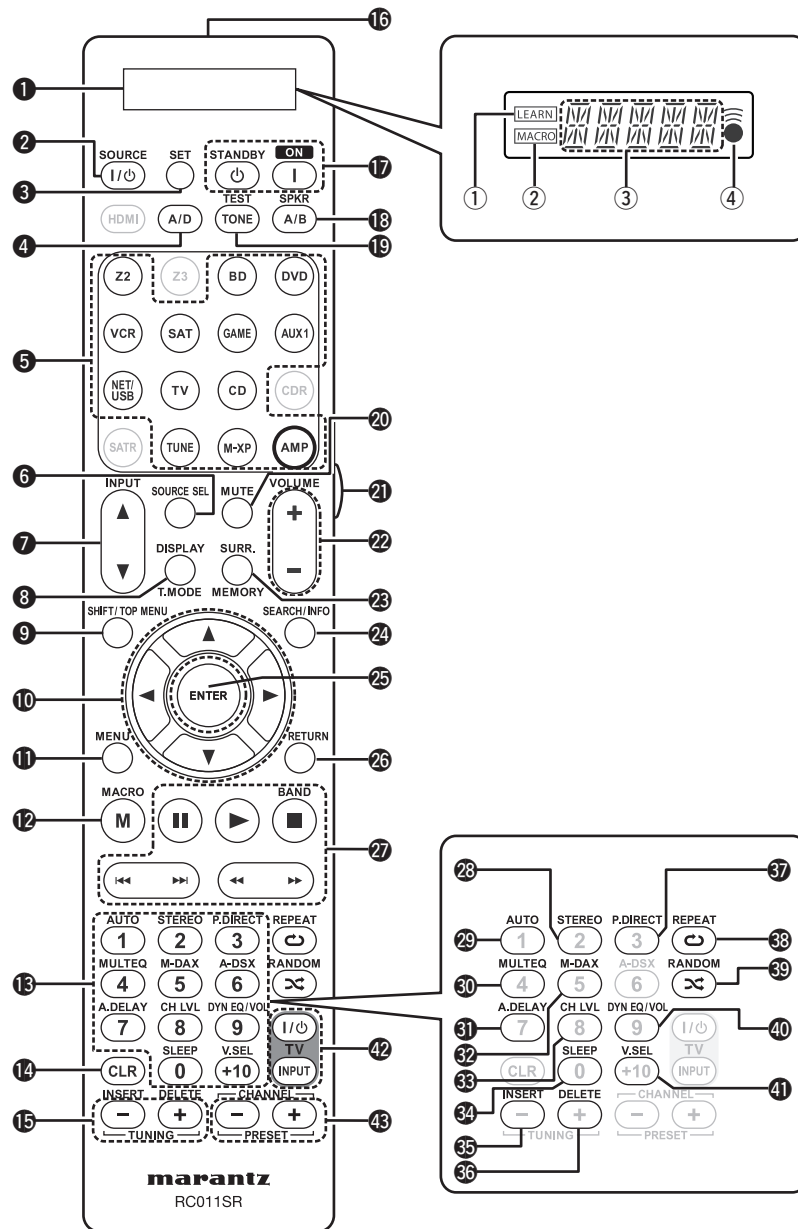
Basic version

Advanced version

Information

Remote control unit

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



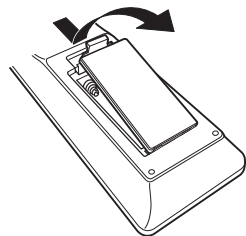
- 1 Display**
 - ① LEARN indicator (72)
 - ② MACRO indicator (74)
 - ③ Information display
 - ④ indicator (70)
- 2 SOURCE power button** (70, 71)
- 3 SET button** (70 – 75)
- 4 Input mode button (A/D)** (54)
- 5 Input source select buttons** (23)
- 6 Source select button (SOURCE SEL)** (23)
- 7 INPUT buttons (▲, ▼)** (23, 46, 70)
- 8 DISPLAY/**
 - Tuner mode (T.MODE) button (28, 67)
- 9 SHIFT/TOP MENU button** (28, 49)
- 10 Cursor buttons (Δ ▽ ◀ ▶)** (48 – 50)
- 11 MENU button** (50)
- 12 MACRO button** (74)
- 13 Number buttons** (28, 70 – 72)
- 14 Clear button (CLR)** (71, 74, 75)
- 15 TUNING buttons (+, -)** (28)
- 16 Remote control signal transmitter**
- 17 Power buttons (ON, STANDBY)** (7, 12)
- 18 Speaker A/B button (SPKR A/B)** (24)
- 19 TEST TONE button** (63)
- 20 Muting button (MUTE)** (24)
- 21 Light button** (75)
- 22 Master volume control buttons (VOLUME +, -)** (24)
- 23 Surround mode (SURR.) / MEMORY button** (28, 31)
- 24 SEARCH/**
 - Information (INFO) button (25, 28, 50)
- 25 ENTER button** (48 – 50)
- 26 RETURN button** (48 – 50)
- 27 System buttons** (26, 27, 71, 72)
 - Pause button (⏸)
 - Play button (▶)
 - Stop button (■)
 - Skip buttons (⏮, ⏭)
 - Search buttons (◀, ▶)
- FM/AM band switching button (BAND)** ... (28)
- 28 STEREO button** (33)
- 29 AUTO buttons** (31)
- 30 MULTEQ® button** (57)
- 31 Audio delay button (A.DELAY)** (59)
- 32 M-DAX button** (59)
- 33 Channel level button (CH LVL)** (43)
- 34 SLEEP button** (43)
- 35 INSERT button** (49)
- 36 DELETE button** (49)
- 37 Pure direct button (P.DIRECT)** (33)
- 38 REPEAT button** (26, 27)
- 39 RANDOM button** (26, 27)
- 40 Dynamic EQ®/Dynamic Volume® button (DYN EQ/VOL)** (58)
- 41 Video select button (V.SEL)** (53)
- 42 TV operation buttons (TV POWER / INPUT)** (71, 72)
- 43 CHANNEL/ PRESET buttons (+, -)** (28, 29, 71, 72)

NOTE

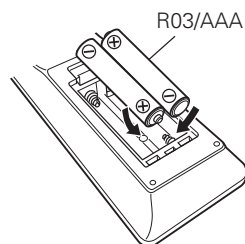
The **HDMI**, **Z3**, **CDR**, **SATR** and **A-DSX** buttons cannot be used.

Inserting the batteries

① Remove the rear lid in the direction of the arrow and remove it.



② Load the two batteries properly as indicated by the marks in the battery compartment.



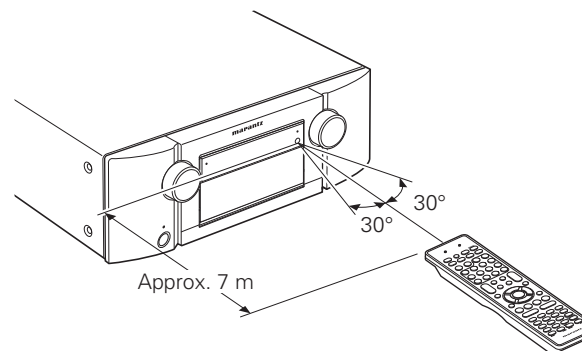
③ Put the rear cover back on.

NOTE

- Insert the specified batteries in the remote control unit.
- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit. (The supplied batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the ⊕ and ⊖ marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
 - Do not use a new battery together with an old one.
 - Do not use two different types of batteries.
 - Do not attempt to charge dry batteries.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
 - Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.

Operating range of the remote control unit

Point the remote control unit at the remote sensor when operating it.



NOTE






The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.

Other information

- ❑ **Trademark information** (👉 page 82)
- ❑ **Surround** (👉 page 83)
- ❑ **Relationship between video signals and monitor output** (👉 page 87)
- ❑ **Explanation of terms** (👉 page 88)

Trademark information

This product uses the following technologies:

	<p>Manufactured under license from Audyssey Laboratories™. U.S. and foreign patents pending. Audyssey MultEQ® is a registered trademark of Audyssey Laboratories. Audyssey Dynamic EQ® is a registered trademark of Audyssey Laboratories. Audyssey Dynamic Volume® is a trademark of Audyssey Laboratories.</p>
   	<p>Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.</p>

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	<p>HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.</p>
	<p>“Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.</p> <ul style="list-style-type: none"> • Individual users are permitted to use iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch for private copy and playback of non-copyrighted contents and contents whose copy and playback is permitted by law. Copyright infringement is prohibited by law.

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited

Surround

This unit is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

Surround modes and surround parameters

This table shows the speakers that can be used in each surround mode and the surround parameters adjustable in each surround mode.

Symbols in the table

- This indicates the audio output channels or surround parameters that can be set.
- ◎ This indicates the audio output channels. The output channels depend on the settings of "Speaker Config." (page 61).

Surround mode (page 31)	Channel output						Surround Parameter (page 56)			
	Front L/R	Center	Surround L/R	Surround Back L/R	Front Height L/R	Subwoofer	HT-EQ *3 (page 56)	DRC *4 (page 56)	D. Comp *5 (page 56)	LFE *6 (page 56)
PURE DIRECT (2channel)	○					◎*2		○	○	
PURE DIRECT (Multi-channel)	○	◎	◎	◎*1	◎*1	○		○	○	○
DIRECT (2channel)	○					◎*2		○	○	
DIRECT (Multi-channel)	○	◎	◎	◎*1	◎*1	○		○	○	○
STEREO	○					◎	○	○	○	○
MULTI CH IN	○	◎	◎	◎		◎	○			○
DOLBY PRO LOGIC IIz	○	◎	◎		◎	◎	○	○	○	
DOLBY PRO LOGIC IIx	○	◎	◎	◎		◎	○	○	○	
DOLBY PRO LOGIC II	○	◎	◎			◎	○	○	○	
DTS NEO:6	○	◎	◎	◎		◎	○	○	○	
DOLBY DIGITAL	○	◎	◎	◎	◎	◎	○		○	○
DOLBY DIGITAL Plus	○	◎	◎	◎	◎	◎	○		○	○
DOLBY TrueHD	○	◎	◎	◎	◎	◎	○	○		○
DTS SURROUND	○	◎	◎	◎	◎	◎	○		○	○
DTS 96/24	○	◎	◎	◎	◎	◎	○		○	○
DTS-HD	○	◎	◎	◎	◎	◎	○		○	○
DTS Express	○	◎	◎	◎	◎	◎	○		○	○
MULTI CH STEREO	○	◎	◎	◎		◎			○	○
DOLBY VIRTUAL SPEAKR	○					◎*2	○		○	○
Neural	○	◎	◎	◎		◎	○			
Dolby Headphone	○									

- *1 A signal for each channel contained in an input signal is output as audio.
- *2 Only when "Subwoofer Mode" is set to "LFE+Main" (page 62), sound is output from the subwoofer.
- *3 For HD Audio whose sampling frequency of an input signal is more than 96kHz, this sound parameter cannot be set.
- *4 This item can be selected when a Dolby TrueHD signal is played.
- *5 This item can be selected when a Dolby Digital or DTS signal is played.
- *6 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.

Surround

Surround mode (page 31)	Surround Parameter (page 56)					Tone * 7 (page 57)	Audyssey Settings * 11 (page 57)			M-DAX * 10 (page 59)
	Height Gain (page 57)	Panorama (page 56)	PRO LOGIC II/IIx Music mode only		NEO:6 Music mode only		MultEQ® (page 57)	Dynamic EQ® * 8 (page 58)	Dynamic Volume® * 9 (page 58)	
			Dimension (page 56)	C. Width (page 56)	C. Image (page 56)					
PURE DIRECT (2 channel)										
PURE DIRECT (Multi-channel)										
DIRECT (2 channel)										
DIRECT (Multi-channel)										
STEREO						<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
MULTI CH IN						<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
DOLBY PRO LOGIC IIz	<input type="radio"/>					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
DOLBY PRO LOGIC IIx		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
DOLBY PRO LOGIC II		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
DTS NEO:6					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
DOLBY DIGITAL					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
DOLBY DIGITAL Plus					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
DOLBY TrueHD					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
DTS SURROUND					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
DTS 96/24					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
DTS-HD					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
DTS Express					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
MULTI CH STEREO					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
DOLBY VIRTUAL SPEAKER					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Neural					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Dolby Headphone					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

* 7 This item cannot be set when "Dynamic EQ" (page 58) is set to "ON".

* 8 This item cannot be set when "MultEQ" (page 57) is set to "OFF" or "Manual".

* 9 This item cannot be set when "Dynamic EQ" (page 58) is set to "OFF".

* 10 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.

* 11 For HD Audio whose sampling frequency of an input signal is more than 96 kHz, this sound parameter cannot be set.

Types of input signals, and corresponding surround modes

This table shows the input signal that can be played in each surround mode. Check the audio signal of the input source then select the surround mode.

Symbols in the table

○ This indicates the selectable surround mode.

Surround mode (page 31)	NOTE	Input signal types and formats															
		ANALOG	PCM		DTS-HD		DTS					DOLBY		DOLBY DIGITAL			
			LINEAR PCM (multi ch)	LINEAR PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (2ch)
DTS SURROUND																	
DTS-HD MSTR					○												
DTS-HD HI RES						○											
DTS ES DSCRT6.1	*1*4								○								
DTS ES MTRX6.1	*1*4									○							
DTS SURROUND										○							
DTS 96/24											○						
DTS (-HD) + PLIIx MOVIE	*2*4				○	○	○	○	○	○	○						
DTS (-HD) + PLIIx MUSIC	*1*4				○	○	○	○	○	○	○						
DTS (-HD) + PLIIz	*3				○	○	○	○	○	○	○						
DTS EXPRESS																	
DTS (-HD) + NEO:6	*1*4				○	○	○			○	○						
DTS NEO:6 CINEMA		○		○												○	
DTS NEO:6 MUSIC		○		○												○	
DOLBY SURROUND																	
DOLBY TrueHD												○					
DOLBY DIGITAL+													○				
DOLBY DIGITAL EX	*1*4													○			
DOLBY (D+) (HD) +EX	*1*4											○	○				
DOLBY DIGITAL														○	○	○	
DOLBY (D) (D+) (HD) +PLIIx MOVIE	*2*4											○	○	○	○		
DOLBY (D) (D+) (HD) +PLIIx MUSIC	*1*4											○	○	○	○		
DOLBY (D) (D+) (HD) +PLIIz	*3											○	○	○	○		
DOLBY PRO LOGIC IIx MOVIE	*1*4	○		○												○	
DOLBY PRO LOGIC IIx MUSIC	*1*4	○		○												○	
DOLBY PRO LOGIC IIx GAME	*1*4	○		○												○	
DOLBY PRO LOGIC IIz	*3	○		○												○	
DOLBY PRO LOGIC II MOVIE		○		○												○	
DOLBY PRO LOGIC II MUSIC		○		○												○	
DOLBY PRO LOGIC II GAME		○		○												○	
DOLBY VIRTUAL SPEAKER		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
DOLBY HEADPHONE		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

*1 If "Speaker Config." - "S.Back" (page 62) is set to "None", this surround mode cannot be selected.
 *2 If "Speaker Config." - "S.Back" (page 62) is set to "1spkr" or "None", this surround mode cannot be selected.
 *3 If "Speaker Config." - "F. Height" (page 62) is set to "None", this surround mode cannot be selected.
 *4 This surround mode can be selected when "Amp Assign" (page 61) is set to "Normal".

Surround

Surround mode (🔍 page 31)	NOTE	Input signal types and formats																
		ANALOG	PCM		DTS-HD		DTS					DOLBY		DOLBY DIGITAL				
			LINEAR PCM (multi ch)	LINEAR PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (2ch)	
MULTI CH IN																		
MULTI CH IN			○															
MULTI CH IN + PLIIx MOVIE	* 2 * 4		○															
MULTI CH IN + PLIIx MUSIC	* 1 * 4		○															
MULTI CH IN + PLIIz	* 3		○															
MULTI CH IN + Dolby EX	* 1 * 4		○															
MULTI CH IN 7.1	* 1 * 4		○															
DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
PURE DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MULTI CH STEREO		○	○	○				○	○	○	○			○	○	○	○	○
STEREO		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
NEURAL		○		○														○
AUTO		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

- * 1 If "Speaker Config." - "S.Back" (🔍 page 62) is set to "None", this surround mode cannot be selected.
- * 2 If "Speaker Config." - "S.Back" (🔍 page 62) is set to "1spkr" or "None", this surround mode cannot be selected.
- * 3 If "Speaker Config." - "F. Height" (🔍 page 62) is set to "None", this surround mode cannot be selected.
- * 4 This surround mode can be selected when "Amp Assign" (🔍 page 61) is set to "Normal".

Relationship between video signals and monitor output

	Video Convert	MAIN ZONE MONITOR OUT								
		Input Signals			Output Signals			Menu displayed		
		HDMI	COMPONENT	VIDEO	HDMI	COMPONENT	VIDEO	HDMI	COMPONENT	VIDEO
1	ON	×	×	×	Wall paper	×	×	Only the menu is displayed	×	×
2	OFF	×	×	×	×	×	×	Only the menu is displayed	×	×
3	ON	×	×	○	VIDEO	VIDEO	VIDEO	○ (VIDEO)	×	×
4	ON	×	○ (1080p)	×	COMPONENT	COMPONENT	×	○ (COMPONENT)	×	×
5	ON	×	○ (1080i ~ 480p)	×			×			
6	ON	×	○ (480i/576i)	×			×			
7	ON	×	○ (1080p)	○			VIDEO		-	
8	ON *1	×	○ (1080p)	○						
9	ON	×	○ (1080i ~ 480p)	○						
10	ON	×	○ (480i/576i)	○						
11	ON	○	×	×	HDMI	×	×	○ (HDMI)	×	×
12	ON	○	×	○		×	VIDEO		×	×
13	ON	○	○	×		COMPONENT	×		×	×
14	ON	○	○	○		COMPONENT	VIDEO		×	×
15	OFF	×	×	○	×	×	VIDEO	Only the menu is displayed	×	×
16	OFF	×	○	×	×	COMPONENT	×		×	
17	OFF	×	○	○	×	COMPONENT	VIDEO		×	
18	OFF	○	×	×	HDMI	×	×		×	
19	OFF	○	×	○		×	VIDEO		×	×
20	OFF	○	○	×		×	VIDEO		×	×
21	OFF	○	○	○		COMPONENT	VIDEO		×	×

○ Video signal input present

×

*1 When no HDMI monitor is connected or the HDMI monitor's power is not on

×

No video signal output

○ () Superimposed on the picture indicated in ().

×

Neither the picture nor the menu is output.

*2 Only the menu is displayed when no HDMI monitor is connected or the HDMI monitor's power is not on.

*3 If an HDMI monitor is not connected or power of an HDMI monitor is not turned on, the menu is superimposed on a video image in parenthesis.



- The main zone video conversion function is compatible with the following formats: NTSC, PAL, SECAM, NTSC4.43, PAL-N, PAL-M and PAL-60.
- When SECAM signals of video input are up-converted, the signals are output in PAL format from the S-Video and Video connectors.
- The menu display cannot be superimposed when x.v.Color signals and computer's resolution (e.g. VGA) are input.

NOTE

- If you operate the menu while playing back 3D video content, the playback video is replaced by the menu screen. The playback video is not displayed behind the menu screen.
- This unit does not show the status display while playing back 3D video content.

Simple version

Basic version

Advanced version

Information

Explanation of terms

A

A2DP

A2DP is one profile of Bluetooth defined for in-car devices or AV devices that use wireless communication instead of a cable.

Adobe RGB color / Adobe YCC601 color

Like x.v.Color, each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model.

Audyssey Dynamic EQ®

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ® to provide well-balanced sound for every listener at any volume level.

Audyssey Dynamic Volume®

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

Audyssey MultEQ®

Audyssey MultEQ is a room equalization solution that calibrates any audio system so that it can achieve optimum performance for every listener in a large listening area. Based on several room measurements, MultEQ calculates an equalization solution that corrects for both time and frequency response problems in the listening area and also performs a fully automated surround system setup.

Auto Lip Sync

If you connect the receiver to a TV that supports the Auto Lip Sync function, it can automatically correct delay between the audio and video.

B

Bluetooth

Bluetooth is a short-distance wireless communication technology used for connecting handheld devices several meters apart. This enables notebook computers, PDAs, mobile phones, etc. to connect without a cable for transmitting audio and data.

D

Deep Color

This technology allows expression of more number of colors than the conventional 8 bits and can reproduce colors close to natural ones without color streak.

Dolby Digital

Dolby Digital is a multi-channel digital signal format developed by Dolby Laboratories.

A total of 5.1 channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved.

A realistic, powerful sense of presence is achieved when playing movie sources in AV rooms as well.

Dolby Digital EX

Dolby Digital EX is a 6.1-channel surround format proposed by Dolby Laboratories that allows users to enjoy in their homes the "DOLBY DIGITAL SURROUND EX" audio format jointly developed by Dolby Laboratories and Lucas Films.

The 6.1 channels of sound, including surround back channels, provide improved sound positioning and expression of space.

Dolby Digital Plus

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1 channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback equipment.

Dolby Headphone

The Dolby Headphone technology provides a surround sound listening experience over headphones.

When listening to multichannel content such as DVD movies over headphones, the listening experience is fundamentally different than listening to speakers. Since the headphone speaker drivers are covering the pinna of the ear, the listening experience differs greatly from traditional speaker playback. Dolby utilizes patented headphone perspective curves to solve this problem and provides a non-fatiguing, immersive, home theater listening experience. Dolby Headphone also delivers exceptional 3D audio from stereo material.

Dolby TrueHD

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format provides the facility to support up to 8 audio channels with a sampling frequency of 96kHz/24bit resolution and up to 6 audio channels with a sampling frequency of 192kHz/24bit resolution. Dolby TrueHD is adopted for applications that put very high importance on sound quality.

Dolby Pro Logic II

Dolby Pro Logic II is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5 channels to achieve an excellent surround effect. The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a "three-dimensional" sound image offering a rich sense of presence for all stereo sources.

Dolby Pro Logic IIx

Dolby Pro Logic IIx is a further improved version of the Dolby Pro Logic II matrix decoding technology. Audio signals recorded in 2 channels are decoded to achieve a natural sound with up to 7.1 channels. There are three modes: "Music" suited for playing music, "Movie" suited for playing movies, and "Game" which is optimized for playing games.

Dolby Pro Logic IIz

Dolby Pro Logic IIz introduces a new dimension to Home Entertainment through the addition of a pair of front height channels. Compatible with stereo, 5.1-channel and 7.1-channel content, Dolby Pro Logic IIz provides enhanced spaciousness, depth and dimension to movies, concert video and video game playback while maintaining the full integrity of the source mix.

Dolby Pro Logic IIz identifies and decodes spatial cues that occur naturally in all content, directing this information to the front height channels, complementing the performance of left and right surround sound speakers. Content that is encoded with Dolby Pro Logic IIz height channel information can be even more revealing, with perceptually discrete height channel information bringing an exciting new dimension to home entertainment.

Dolby Pro Logic IIz, with front height channels is also an ideal alternative for households that cannot support the placement of back surround speakers of a typical 7.1-channel system but may have bookshelf space available to support the addition of height speakers.

Dolby Virtual Speaker

Dolby Virtual Speaker is a technology certified by Dolby Laboratories that creates a virtualized surround sound experience from two speakers using a multichannel Dolby Digital source. Additionally, Dolby Virtual Speaker can simulate the surround sound effect produced by Dolby Pro Logic or Dolby Pro Logic II.

Dolby Virtual Speaker retains all the original Multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.

Downmix

This function converts the number of channels of surround audio to less number of channels and plays back.

DTS

This is an abbreviation of Digital Theater System, which is a digital audio system developed by DTS. When playing back audio by connecting this system with a device such as DTS amplifier, accurate sound field position and realistic sound effect as if you are in a movie theater can be obtained.

DTS 96/24

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1 channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

DTS Digital Surround

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1 channels of digital discrete surround sound.

DTS-ES™ Discrete 6.1

DTS-ES™ Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS-ES™ Matrix 6.1

DTS-ES™ Matrix 6.1 is a 6.1-channel discrete digital audio format inserting a surround back (SB) channel to the DTS digital surround sound through matrix encoding. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS Express

DTS Express is an audio format supporting low bit rates (max. 5.1 channels, 24 to 256 kbps).

DTS-HD

This audio technology provides higher sound quality and enhanced functionality than the conventional DTS and is adopted as an optional audio for Blu-ray Disc. This technology supports multi-channel, high data transfer speed, high sampling frequency, and lossless audio playback. Maximum 7.1-channels are supported in Blu-ray Disc.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is an improved version of the conventional DTS, DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1 channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-HD Master Audio

DTS-HD Master Audio is a lossless audio format created by Digital Theater System (DTS). This format provides the facility to support up to 8 audio channels with a sampling frequency of 96kHz/24bit resolution and up to 6 audio channels with a sampling frequency of 192kHz/24bit resolution. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS Neural Surround

DTS Neural Surround has been chosen as the surround sound format for XM Satellite Radio's "XM HD Surround", TV sports broadcasting, 7.1 games, Music Direct Internet streaming as well as leading FM/HD radio stations. It delivers the rich envelopment and discrete image detail of surround sound by unmasking the audio details, typically lost by other playback modes. Audiences will experience the deep ambience and subtle details of movies, music and games.

DTS NEO:6™ Surround

DTS NEO:6™ is a matrix decoding technology for achieving 6.1-channel surround playback with 2-channel sources. It includes "DTS NEO:6 Cinema" suited for playing movies and "DTS NEO:6 Music" suited for playing music.

Dynamic range

The difference between the maximum undistorted sound level and the minimum discernible level above the noise emitted by the device.

H**HDCP**

When transmitting digital signals between devices, this copyright protection technology encrypts the signals to prevent content from being copied without authorization.

HDMI

This is an abbreviation of High-Definition Multimedia Interface, which is an AV digital interface that can be connected to a TV or amplifier. Video signal and audio signal can be connected using 1 cable.

L**LFE**

This is an abbreviation of Low Frequency Effect, which is an output channel that emphasizes low frequency effect sound. Surround audio is intensified by outputting 20 Hz to 120 Hz deep bass.

M**MAIN ZONE**

The room where this unit is placed is called the MAIN ZONE.

MP3 (MPEG Audio Layer-3)

This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD. **MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4**

These are the names for digital compression format standards used for the encoding of video and audio. Video standards include "MPEG-1 Video", "MPEG-2 Video", "MPEG-4 Visual", "MPEG-4 AVC". Audio standards include "MPEG-1 Audio", "MPEG-2 Audio", "MPEG-4 AAC".

P**Pairing**

Pairing is an operation required for settings to connect two Bluetooth devices. Pairing enables Bluetooth devices to access each other.

Protection Circuit

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

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

S**Sampling frequency**

Sampling involves taking a reading of a sound wave (analog signal) at regular intervals and expressing the height of the wave at each reading in digitized format (producing a digital signal).

The number of readings taken in one second is called the "sampling frequency". The larger the value, the closer the reproduced sound is to the original.

Speaker impedance

This is an AC resistance value, indicated in Ω (ohms). Greater power can be obtained with this value smaller.

sYCC601 color

Like x.v.Color, each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model.

W**WAV (Wave)**

WAV is a standard audio format of Windows. The file size tends to increase, but sound near the original sound can be maintained.

WMA (Windows Media Audio)

This is audio compression technology developed by Microsoft Corporation.

WMA data can be encoded using Windows Media® Player Ver.7, 7.1, Windows Media® Player for Windows® XP and Windows Media® Player 9 Series.

To encode WMA files, only use applications authorized by Microsoft Corporation. If you use an unauthorized application, the file may not work properly.

X**x.v.Color**

This function lets HDTVs display colors more accurately. It enables display with natural, vivid colors. "x.v.Color" is a Sony registered trademark.

Z**ZONE2**

This unit can operate in a room other than the room where this unit is placed (MAIN ZONE) (ZONE2 playback). The room for ZONE2 playback is called ZONE2.

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.

[General]

Symptom	Cause/Solution	Page
Power does not turn on.	<ul style="list-style-type: none"> Check whether the power plug is correctly inserted into the power outlet. The protection circuit is active. Disconnect the power plug from the electric outlet, wait 5 to 10 seconds and then insert it back into the outlet. 	5 4, 89
Display is off.	<ul style="list-style-type: none"> Set "Display" on the menu to something other than "OFF". 	67
The power indicator is blinking red in intervals of approximately 2 seconds.	<ul style="list-style-type: none"> The temperature inside the unit has risen. Please turn off power once, and re-apply the power after the temperature has fallen sufficiently. Please re-install this unit in a place having good ventilation. 	III III
The power indicator is blinking red in intervals of approximately 0.5 seconds.	<ul style="list-style-type: none"> Please use speakers which have the specified impedance. The speaker cable has shorted (is touching). Firmly twist the core wire in the speaker cable, and then re-connect it to the speaker terminal. 	4 4
After turning on the power, the power indicator is blinking red in intervals of approximately 0.5 seconds.	<ul style="list-style-type: none"> This unit amplifier circuit has failed. Turn off the power and please contact the Marantz service adviser. 	–
Set does not operate properly.	<ul style="list-style-type: none"> Reset the microprocessor. 	92

[Video]

Symptom	Cause/Solution	Page
No picture appears.	<ul style="list-style-type: none"> Check the TV connection. Set the TV input correctly. 	6 7

[Audio]

Symptom	Cause/Solution	Page
Audio is not output.	<ul style="list-style-type: none"> Check the connections for all devices. Check the speaker connections. Check whether the audio device power is turned on. Adjust the master volume. Cancel the mute mode. Select a suitable input source. Select a suitable input mode. Disconnect the headphones. No sound is output from the speakers or the PRE OUT connectors when headphones are connected. 	5, 14 – 22 5, 36 – 38 – 24, 44 24, 44 24, 44 54 77
No sound is produced from surround speaker.	<ul style="list-style-type: none"> Check if the surround speakers are connected to the SURROUND terminals. 	–
No sound is produced from surround back speaker.	<ul style="list-style-type: none"> Set "Amp Assign" on the menu to "Normal". Set "Speaker Config." – "S.Back" on the menu to something other than "None". Set the surround mode to something other than "STEREO". 	61 62 31
No sound is produced from front height speaker.	<ul style="list-style-type: none"> Set "Amp Assign" on the menu to "Normal". Set "Speaker Config." – "F.Height" on the menu to something other than "None". 	61 62
No sound is produced from subwoofer.	<ul style="list-style-type: none"> Check the subwoofer connections. Turn on the subwoofer's power. Set "Speaker Config." – "Subwoofer" on the menu to "Yes". If "Front" and "Center" for "Speaker Config." are set to "Large", and "Subwoofer Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode. 	5, 36 – 38 7 61 61, 62
DTS sound is not output.	<ul style="list-style-type: none"> Set "Decode Mode" on the menu to "Auto" or "DTS". 	54
Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output.	<ul style="list-style-type: none"> Make HDMI connections. 	16

[HDMI]

Symptom	Cause/Solution	Page
No audio is output with HDMI connection.	• Check the connection of the HDMI connectors.	16
	• When outputting HDMI audio from the speakers, set "HDMI Audio Out" on the menu to "AMP".	64
No video is output with HDMI connection.	• Check the connection of the HDMI connectors.	16
	• Set the input source to match the connected HDMI connector.	16, 23, 52
When the following operations are performed on devices compatible with HDMI control, the same operations occur on this unit. • Power ON/OFF • Switching audio output devices • Adjust volume • Switch input source	• Check whether the TV is compatible with copyright protection (HDCP). If connected to a device not compatible with HDCP, video will not be output correctly.	15
	• Set "HDMI Control" on the menu to "OFF". To operate power only for each device, set "Power Off Control" to "OFF".	42, 64

[Radio]

Symptom	Cause/Solution	Page
Reception fails, or there is a lot of noise or distortion.	• Change the antenna orientation or position.	20
	• Separate the AM loop antenna from the unit.	20
	• Use an FM outdoor antenna.	20
	• Separate the antenna from other connection cables.	20

[iPod]

Symptom	Cause/Solution	Page
iPod cannot be played.	• Check the iPod connections.	19
	• Switch the input source to "USB".	23
	• Incompatible iPod types cannot be played back.	19
"Connection Error" is displayed.	• Unable to communicate properly. Turn off the power to this unit, disconnect the iPod and then reconnect it.	-
"Not Support" is displayed.	• The iPod connected to the unit is not compatible. Please make sure the iPod you are connecting is compatible. • The software version of the connected iPod is an old one. Please update to the latest version.	19 -
"Connection Error" is displayed.	• The iPod is not responding. Turn off the power to this unit, disconnect the iPod and then reconnect it.	-
When an iPod is connected, "No Connection" is displayed.	• "No Connection" may display if you connect an iPod that has only a small amount of charge remaining in its battery to this unit. Should this occur, charge the iPod before connecting it to this unit.	-

[USB memory device]

Symptom	Cause/Solution	Page
When a USB memory device is connected, "USB" is not displayed on the menu.	• The set cannot recognize a USB memory device. Check the connection.	19
	• A USB memory device not conforming to mass storage class is connected. Connect a USB memory device conforming to mass storage class.	-
	• A USB memory device cannot be connected via a USB hub.	19
Files on a USB memory device cannot be played.	• Set the USB memory device format to "FAT16" or "FAT32". For details, refer to the USB memory device's operating instructions.	-
	• If the USB memory device is divided into multiple partitions, only files stored in the top partition can be played.	-
	• The file is recorded in an incompatible format. Please record it in a compatible format.	-
	• This unit cannot play back files covered by copyright protection.	-
The file names are not displayed properly ("...", etc.).	• Characters that cannot be displayed on this unit are replaced by "." (period).	25
The sound quality is poor or there is noise during playback.	• The file being played back has a low bit rate.	-
"Connection Error" is displayed.	• Unable to communicate properly. Turn off the power to this unit, unplug the USB memory device and then plug it back in.	-
	• The USB memory device is not responding. Turn off the power to this unit, unplug the USB memory device and then plug it back in.	-
"Overcurrent" is displayed.	• The USB memory device is consuming too much power. When using a USB portable hard disk that can be powered by an AC adapter, connect its AC adapter.	-

[M-XPoort]

Symptom	Cause/Solution	Page
Audio is not output when a wireless receiver (RX101 is connected).	<ul style="list-style-type: none"> Check that the Bluetooth device and Wireless receiver (RX101) are correctly paired. 	–

[Remote control unit]

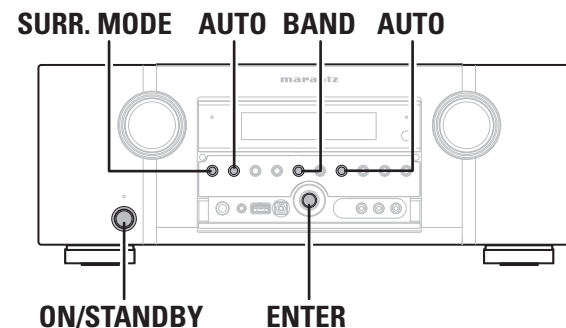
Symptom	Cause/Solution	Page
The set cannot be operated with the remote control unit.	<ul style="list-style-type: none"> Batteries are worn out. Replace with new batteries. 	81
	<ul style="list-style-type: none"> Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°. 	81
	<ul style="list-style-type: none"> Remove any obstacle between this unit and the remote control unit. 	81
	<ul style="list-style-type: none"> Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks. 	81
	<ul style="list-style-type: none"> The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the set to a place in which the remote control sensor will not be exposed to strong light. 	81

Resetting the microprocessor

Perform this procedure if the display is abnormal or if operations cannot be performed.

When the microprocessor is reset, all the settings are reset to their default values.

Various setting details can be saved and reset on this device. If setting details are saved before returning to the default values, after returning to the default settings, setting details can be returned to the same values as before returning to the defaults.



1 When the power is ON, press and hold **BAND** and **ENTER** for more than 3 seconds.
After "MEMORY SAVING" is shown on the display, "COMPLETE" is shown to inform you that the settings have been saved.

2 Turn off the power using **ON/STANDBY**.

3 Press **ON/STANDBY** while simultaneously pressing **SURROUND MODE** and **AUTO**.

4 Once the display starts flashing at intervals of about 1 second, release the two buttons.

5 Press and hold **BAND** and **MENU** for more than 3 seconds.
After "MEMORY LOAD" is shown on the display, "COMPLETE" is shown to inform you that the settings have returned to those saved in step 1.



- To return all of the settings to the default values, perform steps 2 to 4 without performing step 1.
- If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.

Specifications

□ Audio section

• Power amplifier

Rated output:	Front: 110 W + 110 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.) Center: 110 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.) Surround: 110 W + 110 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.) Surround back / Front height: 110 W + 110 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
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Maximum effective output power:

Front: 190 W + 190 W (6 Ω, 1 kHz with 10 % T.H.D.) Center: 190 W (6 Ω, 1 kHz with 10 % T.H.D.) Surround: 190 W + 190 W (6 Ω, 1 kHz with 10 % T.H.D.) Surround back / Front height: 190 W + 190 W (6 Ω, 1 kHz with 10 % T.H.D.)

Output connectors:

• Analog

Input sensitivity/Input impedance:	175 mV/50 kΩ
Frequency response:	10 Hz – 100 kHz — ±3 dB (Source Direct mode)
S/N:	98 dB (IHF-A weighted, Source Direct mode)

□ Video section

• Standard video connectors

Input/output level and impedance:	1 Vp-p, 75 Ω
Frequency response:	5 Hz – 10 MHz — +1, –3 dB

• Color component video connector

Input/output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω P _B / C _B signal — 0.7 Vp-p, 75 Ω P _R / C _R signal — 0.7 Vp-p, 75 Ω
Frequency response:	5 Hz – 60 MHz — +0, –3 dB

□ Tuner section

	[FM]	[AM]
Receiving Range:	87.5 MHz – 108.0 MHz	522 kHz – 1611 kHz
Usable Sensitivity:	1.2 μV (12.8 dBf)	18 μV
50 dB Quieting Sensitivity:	MONO 2.0 μV (17.3 dBf) STEREO 42 μV (34.5 dBf)	
S/N (IHF-A):	MONO 72 dB STEREO 67 dB	
Total harmonic Distortion (at 1 kHz):	MONO 0.3 % STEREO 0.7 %	

□ General

Power supply:	AC 230 V, 50 Hz
Power consumption:	650 W 0.2 W (Standby) 3.0 W (CEC standby)
Maximum external dimensions:	440 (W) x 161 (H) x 389 (D) mm
Weight:	11.8 kg

□ Remote control unit (RC011SR)

Batteries:	R03/AAA Type (two batteries)
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For purposes of improvement, specifications and design are subject to change without notice.

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**List of preset codes / Liste de codes pré-réglés / Lista de códigos pre-ajustados / Liste von voreingestellten Codes
Lista dei codici pre-regolati / Lijst van voorinstelde codes / Förteckning över förinställda koder**

Device select : BD

Blu-ray Disc Player

D	Denon	5034, 5035, 5036
H	Hitachi	5031, 5032, 5033
I	Integra	5013
J	JWC	5014, 5015, 5017, 5018, 5019, 5020
L	LG	5010, 5011
M	Marantz	5000, 5026, 5027
	Mitsubishi	5024, 5025
O	Onkyo	5013
P	Panasonic	5001, 5002, 5003
	Philips	5004
	Pioneer	5005
R	RCA	5012
S	Samsung	5005
	Sharp	5028, 5029, 5030
	Sony	5007, 5008, 5009, 5016
T	Toshiba	5012
Y	Yamaha	5021, 5022, 5023

Device select : DVD

DVD Player

A	Aiwa	2036, 2037
	Apex	2012, 2017, 2018, 2019, 2021, 2034
B	BOSE	2038, 2039, 2063
D	Denon	2047, 2048
F	Funai	2049
G	GE	2009, 2020, 2029, 2033
H	Harman Kardon	2061
	Hitachi	2008, 2012, 2031
J	JVC	2006, 2010, 2040, 2041, 2042, 2043
K	Kenwood	2053, 2054
	Koss	2058
M	Magnavox	2007, 2011, 2023, 2025
	Marantz	2025, 2065
	Marantz (Blu-ray)	2064
	Mitsubishi	2011, 0215
O	Onkyo	2062
	Oritron	2009, 2030
P	Panasonic	2003, 2015, 2016, 2055
	Philips	2007, 2011, 2058
	Pioneer	2002, 2014, 2056
	Proscan	2009, 2020, 2032
R	RCA	2005, 2009, 2020, 2035, 2057

S	Sampo	2041
	Samsung	2008, 2012, 2022, 2024, 2027
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	Sherwood	2051
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T	Toshiba	2004, 2008, 2026, 2028
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Z	Zenith	2010

Device select : SAT

Satellite Receiver

A	Alphastar	4027
	Amstrad	4046, 4047, 4050
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B	B Sky B	4021, 4045, 4046
C	Chaparral	4039
D	DIRECTV	4001, 4016, 4044
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Device select : TV

Television

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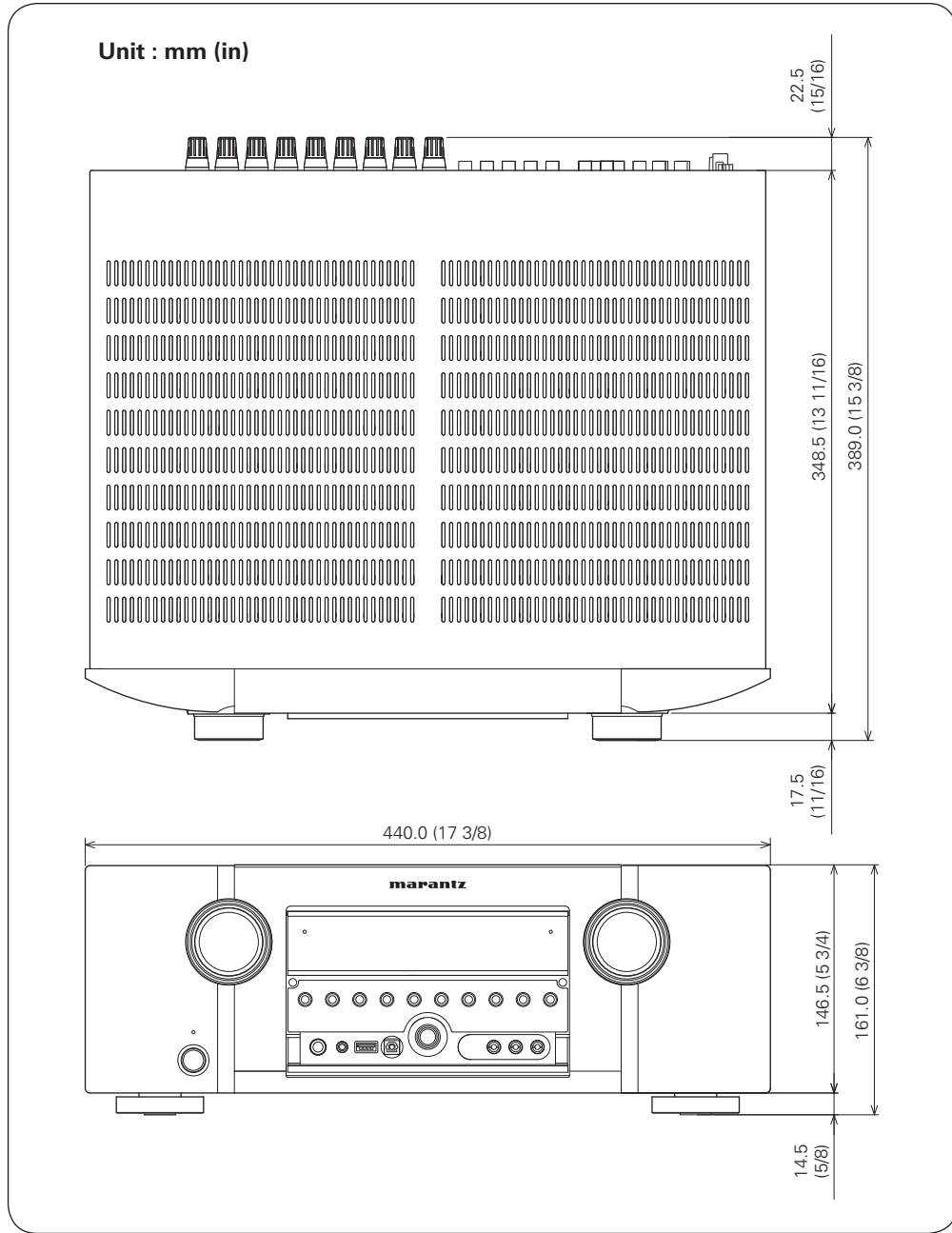
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