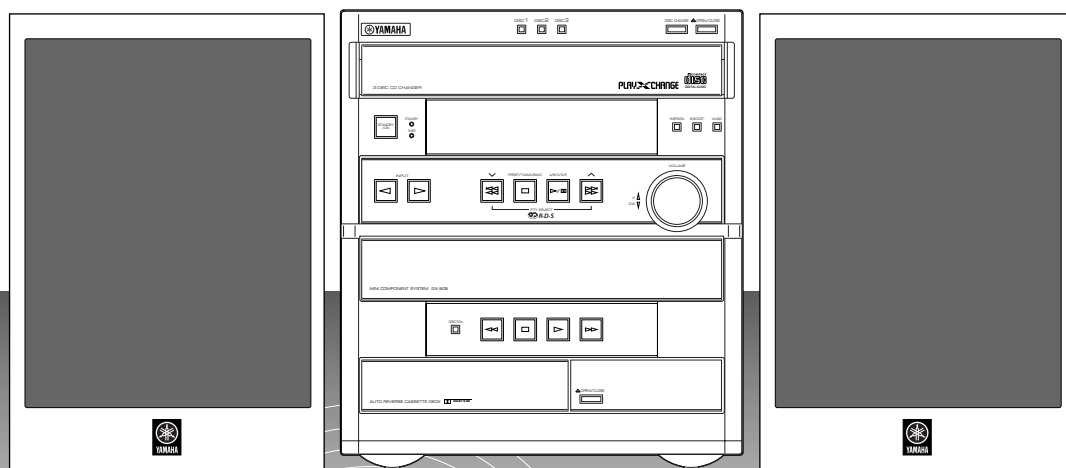


GX-505

MINI COMPONENT SYSTEM CHAÎNE COMPACTE

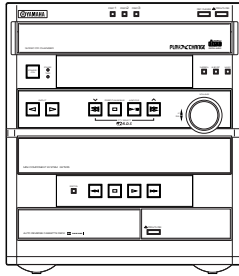


**OWNER'S MANUAL
MODE D'EMPLOI
BEDIENUNGSANLEITUNG
BRUKSANVISNING
MANUALE DI ISTRUZIONI
MANUAL DE INSTRUCCIONES
GEBRUIKSAANWIJZING**

Unpacking
Déballage
Auspacken
Uppackning
Disimballaggio
Desembalaje
Uitpakken

- After unpacking, check that the following parts are contained.
- Après le déballage, vérifiez que les pièces suivantes sont incluses.
- Nach dem Auspacken überprüfen, ob die folgenden Teile vorhanden sind.
- Kontrollera efter det apparaten packats upp att följande delar finns med.
- Verificare che tutte le parti seguenti siano contenute nell'imballaggio dell'apparecchio.
- Desembale el aparato y verifique que los siguientes accesorios están en la caja.
- Controleer na het uitpakken of de volgende onderdelen voorhanden zijn.

- Main unit
- Appareil principal
- Gerät
- Huvudapparat
- Apparecchio principale
- Aparato principal
- Hoofdeenheid



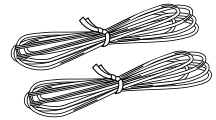
- Speakers
- Enceintes
- Lautsprecher
- Högtalare
- Altoparlanti
- Altavoces
- Luidsprekers



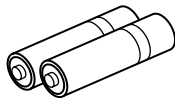
- Remote control
- Télécommande
- Fernbedienung
- Fjärrkontroll
- Telecomando
- Control remoto
- Afstandbediening



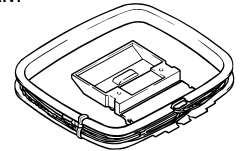
- Speaker cords
- Câbles d'enceintes
- Lautsprecherkabel
- Högtalarledningar
- Cavi per gli altoparlanti
- Cables de los altavoces
- Luidsprekerdraden



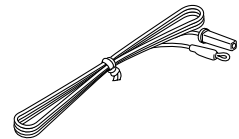
- Batteries (size AA, UM/SUM-3, R6, HP-7)
- Piles (format AA, UM/SUM-3, R6, HP-7)
- Batterien (Größe AA, UM/SUM-3, R6, HP-7)
- Batterier (Storl. AA, UM/SUM-3, R6, HP-7)
- Batterie (dimensioni AA, o UM/SUM-3, o R6, o HP-7)
- Pilas (tamaño AA, tipo UM/SUM-3, R6, HP-7)
- Batterijen (maat AA, UM/SUM-3, R6, HP-7)



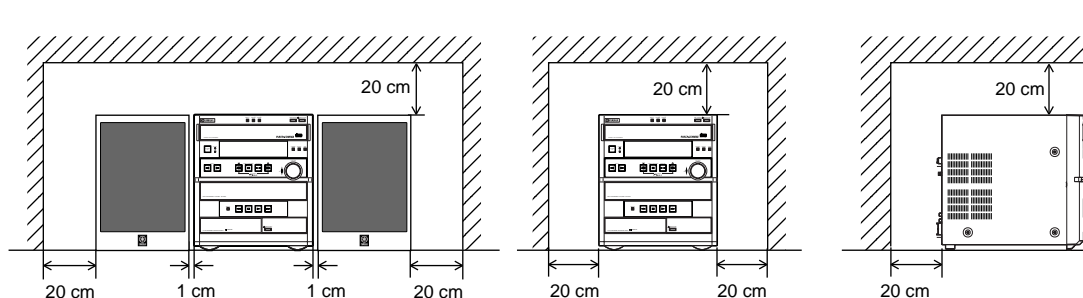
- AM loop antenna
- Antenne-cadre AM
- AM-Rahmenantenne
- AM ramantenn
- Antenna ad anello per AM
- Antena de cuadro AM
- AM lusantenne



- Indoor FM antenna
- Antenne intérieure FM
- UKW-Innenantenne
- FM inomhusantenn
- Antenna FM per interni
- Antena interior de FM
- FM binnenantenne



● Setting this system ● Installation de ce système
 ● Aufstellen des Systems ● Iordningsställande av denna anläggning
 ● Installazione del sistema ● Instalación del sistema
 ● Opstelling van dit systeem



English

Set this system by allowing enough spaces around and behind the main unit to assure good ventilation. Be sure not to place another unit or any object on top of the main unit to prevent the ventilation holes from being obstructed. Otherwise, it may cause fire or damage to the main unit.

Caution

When placing the speakers apart from the main unit, be sure to allow spaces of at least **20 cm** above, behind and on both sides of the main unit. If the main unit is put inside a rack, the front of it must be fully opened.

Français

Installer ce système en laissant assez d'espace autour et derrière l'appareil principal pour assurer une bonne ventilation. Veiller à ne pas empiler un autre appareil ou un autre objet sur l'appareil principal afin de ne pas boucher les orifices de ventilation. Sinon, on risquerait de provoquer un incendie ou d'endommager l'appareil principal.

Attention

Lorsqu'on place les enceintes à une certaine distance de l'appareil principal, veiller à laisser un espace d'au moins **20 cm** au-dessus, derrière et sur les deux côtés de l'appareil principal. Si l'on place l'appareil principal dans un meuble, veiller à ce que le côté avant du meuble soit grand ouvert.

Deutsch

Stellen Sie das System so auf, daß um und hinter dem Gerät genügend freier Raum vorhanden ist, um eine ausreichende Belüftung zu gewährleisten. Es dürfen keine anderen Geräte oder Gegenstände auf das Gerät gestellt werden, weil die Belüftungsschlitze nicht abgedeckt werden dürfen. Bei abgedeckten Belüftungsöffnungen kann ein Brand verursacht werden oder das Gerät kann beschädigt werden.

Achtung

Wenn die Lautsprecher vom Gerät entfernt aufgestellt werden, muß ein freier Abstand von mindestens **20 cm** über, hinter und auf beiden Seiten des Gerätes vorhanden sein. Wenn das Gerät in einem Regal oder Schrank aufgestellt wird, so muß die Vorderseite vollständig geöffnet sein.

Svenska

Vid placeringen av anläggningen, skall du se till att det finns tillräckligt med fritt utrymme runt om samt bakom huvudapparaten, för att tillförsäkra en bra ventilation. Var noga med att inte ställa någon annan apparat eller något föremål ovanpå huvudapparaten för att förhindra att ventilationshålen blir blockerade. Annars kan huvudapparaten utsättas för brand eller skadas på annat sätt.

Observera

När högtalarna ställs separat från huvudapparaten, skall du förvissa dig om att det finns ett fritt utrymme på minst **20 cm** ovanför, bakom och på huvudapparatsens båda sidor. Om huvudapparaten placeras i en stereomöbel, måste möbelns framsida lämnas helt öppen.

Italiano

Installare il sistema lasciando sufficiente spazio intorno e dietro all'apparecchio centrale per garantire una ventilazione sufficiente. Evitare assolutamente di posizionare altri dispositivi o oggetti sulla parte superiore dell'apparecchio centrale onde evitare di ostruirne le aperture per la ventilazione presenti. In caso contrario possono verificarsi incendi, o l'apparecchio può subire danni.

Avvertenza

Se si installano gli altoparlanti lontano dall'apparecchio principale, quest'ultimo deve essere posizionato in modo da avere almeno **20 cm** di spazio libero sopra, dietro e sui due lati. Se si installa l'apparecchio principale in uno scaffale, il lato anteriore dello scaffale deve essere completamente aperto.

Español

Instale el sistema dejando suficiente espacio alrededor y detrás de la unidad principal para garantizar una buena circulación de aire. No instale otro aparato o un objeto encima de la unidad principal porque obstruirá los orificios de salida de aire. Puede provocar un fuego o dañar la unidad principal.

Precaución

Cuando instale los altavoces alejados de la unidad principal, asegúrese de dejar un espacio de por lo menos **20 cm** encima, detrás y a ambos lados de la unidad principal. Si se coloca la unidad principal dentro de un mueble, no debe cerrar la tapa delantera.

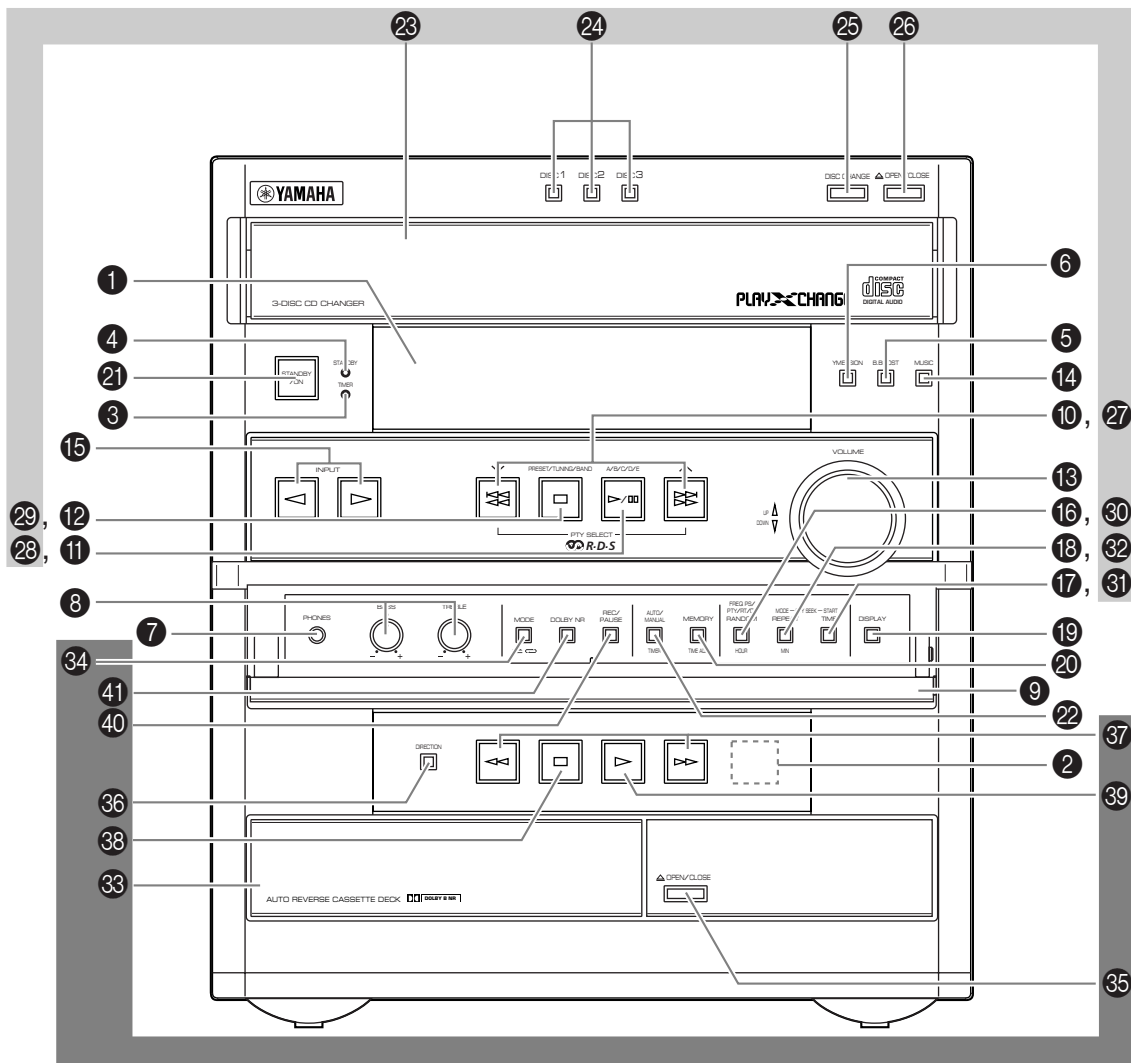
Nederlands

Zorg ervoor bij de opstelling van dit systeem dat er voldoende ruimte rondom en aan de achterzijde van de hoofdeenheid is voor het verkrijgen van een goede ventilatie. Plaats geen andere apparatuur of voorwerpen bovenop de hoofdeenheid om te voorkomen dat de ventilatieopeningen geblokkeerd raken. Anders kan dit brandgevaar en beschadiging van de hoofdeenheid veroorzaken.

Gevaar

Bij het opstellen van de luidsprekers op afstand van de hoofdeenheid, een ruimte van tenminste **20 cm** aan de bovenzijde, achterzijde en aan de linker en rechter zijde van de hoofdeenheid open laten. Als de hoofdeenheid in een rek wordt geplaatst, dient de voorzijde ervan volledig open te zijn.

- Front panel ● Panneau avant ● Frontseite
- Frampanelen ● Pannello anteriore ● Panel delantero
- Voorpaneel



● **Amplifier/tuner** ● **Amplificateur/tuner** ● **Verstärker/Tuner**
 ● **Förstärkare/tuner** ● **Amplificatore/sintonizzatore**
 ● **Amplificador/sintonizador** ● **Versterker/tuner**

- | | | |
|--|---|--|
| <p>① Display panel
Panneau d'affichage
Anzeigefeld
Display
Quadrante delle indicazioni
Visualizador
Displaypaneel</p> <p>② Remote control sensor
Capteur de télécommande
Fernbedienungssensor
Fjärrkontrollsensor
Sensore del telecomando
Sensor del control remoto
Abstandbedieningsensor</p> <p>③ TIMER</p> <p>④ STANDBY [p. 10]</p> <p>⑤ B. BOOST [p. 33]</p> | <p>⑥ IMERSION [p. 33]</p> <p>⑦ PHONES [p. 34]</p> <p>⑧ BASS/TREBLE [p. 33]</p> <p>⑨ Front cover
Couvercle avant
Reglerfachabdeckung
Frontluckan
Sportello anteriore
Cubierta delantera
Voorklepje</p> <p>⑩ \wedge / \vee [p. 17, 19]
PTY SELECT [p. 22]</p> <p>⑪ A/B/C/D/E [p. 19]</p> <p>⑫ PRESET/TUNING/BAND
[p. 17]</p> <p>⑬ VOLUME [p. 33]</p> | <p>⑭ MUSIC [p. 34]</p> <p>⑮ INPUT($\triangleleft / \triangleright$) [p. 10, 17, 25, 31, 32]
TUNER \rightarrow TAPE \rightarrow CD \rightarrow AUX/MD</p> <p>⑯ FREQ PS/PTY/RT/CT
[p. 20]
HOUR [p. 8, 35]</p> <p>⑰ PTY SEEK-START [p. 22]</p> <p>⑱ MODE-PTY SEEK [p. 22]
MIN [p. 8, 35]</p> <p>⑲ DISPLAY [p. 8, 35]</p> <p>⑳ MEMORY [p. 18, 19]
TIME ADJ [p. 8]</p> <p>㉑ STANDBY/ON [p. 10]</p> <p>㉒ AUTO/MANUAL [p. 17]
TIMER [p. 35]</p> |
|--|---|--|

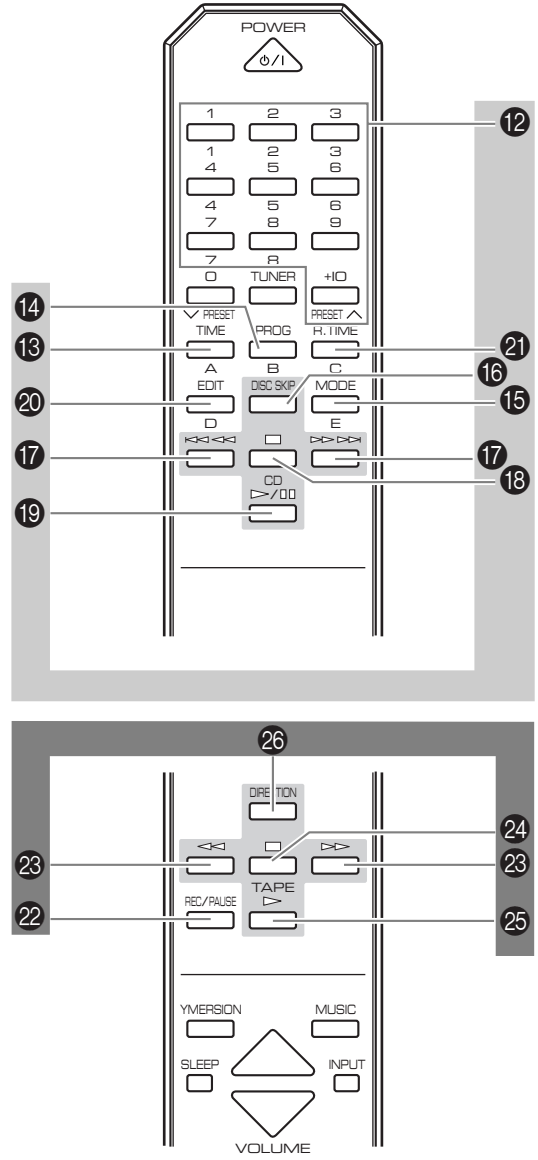
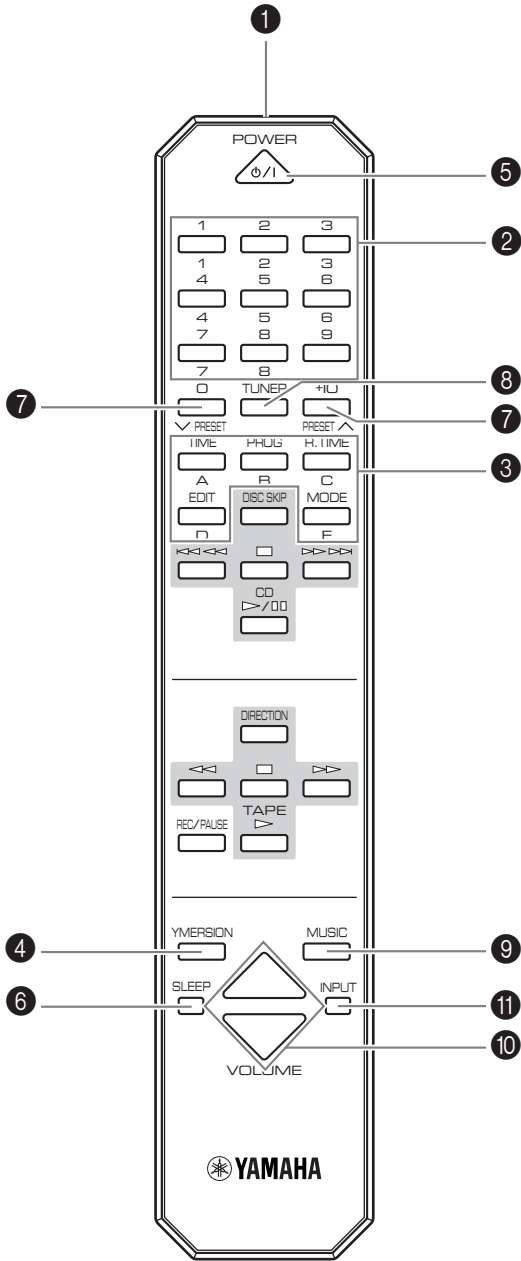
● **CD player** ● **Lecteur de disque compact** ● **CD-Spieler**
 ● **CD-spelare** ● **Lettore CD** ● **Tocadiscos de discos compactos**
 ● **Compact disc speler**

- | | | |
|--|---|---|
| <p>㉓ Disc tray
Plateau de disque
CD-Lade
Skivfack
Piatto portadischi
Plato del disco
Disc-lade
[p. 10]</p> | <p>㉔ DISC (1, 2, 3) [p. 10]</p> <p>㉕ DISC CHANGE [p. 10]</p> <p>㉖ \triangle OPEN/CLOSE [p. 10]</p> <p>㉗ $\triangleleft\triangleleft$ ($\triangleleft\triangleleft$)/$\triangleright\triangleright$ ($\triangleright\triangleright$) [p. 12]</p> <p>㉘ \triangleright / \square [p. 10]</p> | <p>㉙ \square [p. 10]</p> <p>㉚ RANDOM [p. 15]</p> <p>㉛ TIME [p. 15]</p> <p>㉜ REPEAT [p. 14]</p> |
|--|---|---|

● **Tape deck** ● **Platine cassette** ● **Kassettendeck** ● **Kassettdäck**
 ● **Registratore** ● **Platina** ● **Tapedeck**

- | | | |
|---|---|---|
| <p>㉝ Tray
Plateau
Cassettenlade
Kassettfack
Vano portacassette
Bandeja
Lade
[p. 25]</p> | <p>㉞ MODE [p. 25]</p> <p>㉟ \triangle OPEN/CLOSE [p. 25]</p> <p>㊱ DIRECTION [p. 25]</p> <p>㊲ $\triangleleft\triangleleft / \triangleright\triangleright$ [p. 26]</p> | <p>㊳ \square [p. 25]</p> <p>㊴ \triangleright [p. 25]</p> <p>㊵ REC/PAUSE [p. 27]</p> <p>㊶ DOLBY NR [p. 24, 27]</p> |
|---|---|---|

- Remote control ● Telecommande ● Fernbedienung
- Fjärrkontrollen ● Telecomando ● Control remoto
- Afstandbediening



● **Amplifier/tuner** ● **Amplificateur/tuner** ● **Verstärker/Tuner**
 ● **Förstärkare/tuner** ● **Amplificatore/sintonizzatore**
 ● **Amplificador/sintonizador** ● **Versterker/tuner**

- | | |
|--|--|
| <p>① Transmission window
 Fenêtre de transmission
 Übertragungsfenster
 Fjärrkontrollsändare
 Apertura di emissione dei raggi infrarossi
 Ventanilla de transmisión
 Signaalvenster
 [p. 5]</p> <p>② Numeric buttons
 Touches numériques
 Zahlentasten
 Sifferknappar
 Tasti numerici
 Botones numéricos
 Cijfertoetsen
 [p. 19]</p> | <p>③ A, B, C, D, E [p. 19]</p> <p>④ YMERSON [p. 33]</p> <p>⑤ POWER [p. 10]</p> <p>⑥ SLEEP [p. 36]</p> <p>⑦ PRESET (^ / v) [p. 19]</p> <p>⑧ TUNER [p. 17]</p> <p>⑨ MUSIC [p. 34]</p> <p>⑩ VOLUME [p. 33]</p> <p>⑪ INPUT [p. 10, 17, 25, 31, 32]
 TUNER → TAPE → CD → AUX/MD</p> |
|--|--|

● **CD player** ● **Lecteur de disque compact** ● **CD-Spieler**
 ● **CD-spelare** ● **Lettore CD** ● **Tocadiscos de discos compactos**
 ● **Compact disc speler**

- | | | |
|---|--|--|
| <p>⑫ Numeric buttons
 Touches numériques
 Zahlentasten
 Sifferknappar
 Tasti numerici
 Botones numéricos
 Cijfertoetsen
 [p. 11]</p> | <p>⑬ TIME [p. 15]</p> <p>⑭ PROG [p. 13]</p> <p>⑮ MODE [p. 11]</p> <p>⑯ DISC SKIP [p. 12]</p> <p>⑰ <<< (<<<)/>>> (>>>)
 [p. 12]</p> | <p>⑱ □ [p. 10]</p> <p>⑲ ▷ / ◻ [p. 10]</p> <p>⑳ EDIT [p. 29]</p> <p>㉑ R. TIME [p. 29]</p> |
|---|--|--|

● **Tape deck** ● **Platine cassette** ● **Kassettendeck**
 ● **Kassettdäck** ● **registratore** ● **Platina** ● **Tapedeck**

- | | | |
|---|---------------------------------------|----------------------------|
| <p>㉒ REC/PAUSE [p. 27]</p> <p>㉓ <<< / >>> [p. 26]</p> | <p>㉔ □ [p. 25]</p> <p>㉕ ▷ [p. 25]</p> | <p>㉖ DIRECTION [p. 25]</p> |
|---|---------------------------------------|----------------------------|

English

Thank you for purchasing this YAMAHA product. We hope it will give you many years of trouble-free enjoyment.
For the best performance, read this manual carefully. It will guide you in operating your YAMAHA product.

Contents

Precautions	1	Recording	27
Features	4	Basic recording	27
Preparations and connections	5	Recording from CDs	
Installing batteries in the remote control	5	utilizing the EDIT function	29
Remote control operation range	5	Operating an external unit	
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Setting the clock	8	Various sound control	33
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Searching for the beginning of			
the desired selection	26		

For basic source play, the following illustrations on top of the pages will help you look for the section you need.



..... CD play




..... Tuning



..... Tape playback/recording

Precautions: Read this before operating your system

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Choose the installation location of this system carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibration and excessive dust, heat, cold or moisture. Keep it away from sources of hum such as transformers and electric motors.
- Do not operate this system upside-down. It may overheat, possibly causing damage.
- Never open the cabinet. If something drops into the set, contact your dealer.
- The openings on the main unit cover assure proper ventilation of the main unit. If these openings are obstructed, the temperature inside the main unit will rise rapidly. Avoid placing objects against these openings, and install the main unit in a well-ventilated area to prevent fire or damage.
- Always set the VOLUME control to minimum before starting an audio source play. Increase the volume gradually to an appropriate level after play has started.
- When not planning to use this system for a long period of time (ie., vacation, etc.), disconnect the AC power plug from the wall outlet.
- Grounding or polarization – Precautions should be taken so that the grounding or polarization of this system is not defeated.
- Do not use force on switches, controls or connection wires. When moving the main unit, first disconnect the power plug and the wires connected to other equipments. Never pull the wire itself.
- If an external appliance (TV, radio, etc.) interferes with the operation of this system, move the main unit away from such appliance.
- Do not attempt to clean this system with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- Be sure to read the “Troubleshooting” section regarding common operating errors before concluding that this system is faulty.
- To prevent lightning damage, disconnect the AC power plug and the antenna cable when there is an electric storm.
- Do not plug the AC power plug to the wall socket before you finish all connections.
- Never allow metallic items (e.g. screwdrivers, tools, etc.) to come near the tape deck’s record/playback head assembly. Doing so may not only scratch or damage the head’s mirror-smooth finish, it may change the magnetic characteristics of the heads, causing a deterioration in reproduction performance quality.
- Although the tape deck’s record/playback heads are of high quality with outstanding reproduction characteristics, they can get dirty through the use of old tapes or from dust accumulation over time. This can have a serious effect on reproduction quality. Clean the heads regularly with commonly available head cleaners or with cleaning solutions.
- The voltage to be used must be the same as that specified on this system. Using this system with a higher voltage than specified is dangerous and may result in a fire or other types of accidents causing damage. YAMAHA will not be held responsible for any damage resulting from use of this system with a voltage other than specified.
- The sound level at a given volume setting depends on speaker location and other factors. Care should be taken to avoid exposure to sudden high levels of sound, which may occur when turning this system on with the volume control setting at high. Also avoid exposure to continuous high levels of sound.
- Sudden temperature changes and storage or operation in an extremely humid environment may cause condensation inside the cabinet. Condensation can cause this system to malfunction.
 - To eliminate condensation:
 - **Pickup**
Leave the power on with no disc loaded until normal play becomes possible (about 1 hour).
 - **Tape head**
Leave the power on with no tape loaded until normal playback becomes possible (about 1 hour).
 - Note:**
If condensation forms on the tape head, dirt or dust may accumulate during use.
 - **Remote control**
Wipe off condensation on the transmission window with a soft cloth before operating this system.
- The carousel will turn when you open the disc tray by pressing  **OPEN/CLOSE**; therefore, make sure the carousel stopped moving completely before you perform further operations such as placing or removing a disc from the disc tray. Otherwise, you may cause damage to your discs, or you might injure yourself.

Precautions: Read this before operating your system

This system is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this system itself is turned off. This state is called the standby mode. In this state, this system is designed to consume a certain amount of power.


Note

Please check the copyright laws in your country to record from records, compact discs, radio, etc. Recording of copyright materials may infringe copyright laws.

CAUTION FOR CARRYING THE MAIN UNIT

Be sure not to carry or tip the main unit with discs in it.

CAUTION FOR MOVING THE MAIN UNIT

Before moving the main unit, first remove all discs from the disc tray and close the tray by pressing the  **OPEN/CLOSE** button. After you confirm that “NO DISC” lights up on the display, turn this system into the standby mode by pressing the **STANDBY/ON** switch, and then disconnect the power plug from the AC outlet.

For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

Note

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

SPECIAL INSTRUCTIONS FOR U.K. MODEL

IMPORTANT:

THE WIRES IN MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

Blue: NEUTRAL
Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Making sure that neither core is connected to the earth terminal of the three pin plug.

WARNING

To reduce the risk of fire or electric shock, do not expose this system to rain or moisture.

To avoid electric shock, do not open the cabinet. Refer servicing to qualified personnel only.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this unit is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

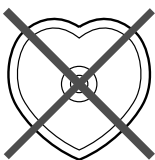
This system is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

NOTES ABOUT DISCS

To prevent a malfunction of this system:

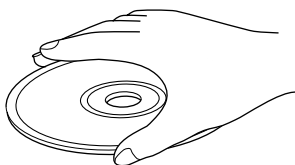
- Do not use any nonstandard shaped disc (heart etc.) available on the market because it might damage the system.



- Do not use a disc with tape, seals, or paste on it. If you use such a disc, a disc may get stuck in the system, or damage to the system may result.

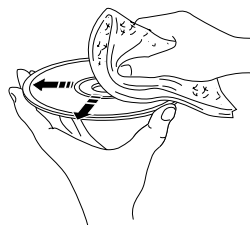
Notes about handling discs

- Always handle the disc with care so that its surface is not scratched.



- Discs are not subjected to wear during play, but damage to the disc surface when the disc is being handled can adversely affect the disc's play.
- Be sure to use a felt-tip pen or similar writing tool when writing on the label side of the disc. Do not use a ball-point pen, pencil, or other hard-tipped writing tool, as these may damage the disc and may adversely affect the disc's play.
- Do not warp discs.
- When a disc is not currently being used, remove it from the system and store in an appropriate case.
- When removing or storing a disc, be careful not to scratch the playing surface.

- Discs are not affected by small particles of dust or fingerprints on their playing surface, but even so they should be kept clean. Wipe by using a clean, dry cloth. Do not wipe with a circular motion; wipe straight outward from the center.



- Do not try to clean the disc's surface by using any type of disc cleaner, record spray, anti-static spray or liquid, or any other chemical-based liquid because such substances might irreparably damage the disc's surface.
- Do not expose discs to direct sunlight, high temperature or high humidity for a long period of time because these might warp or otherwise damage the disc.

No!



To play an 8-cm CD

Place it in the inner recessed area of the disc tray. Do not put a normal (12-cm) CD on top of an 8-cm CD.

Features

General

- High Power Output
80W + 80W (6Ω) RMS, 0.9% THD, 1 kHz
- Multi-Use Timer/Sleep Timer
- SUBWOOFER Output for Low Frequency Expansion
- Remote Control Capability
- BASS BOOST
- 5-Band Spectrum Analyzer
- YMERSION
- 3 Preset Graphic Equalizer Modes (ROCK, POPS and JAZZ)

CD Player

- 3-Disc Carousel Type CD Changer
- **PLAY** **X** **CHANGE**
Disc changing while playing
- 20-Track Random Access Programming
- Repeat Play for Single Track/Entire Disc/All Discs
- Random Sequence Play

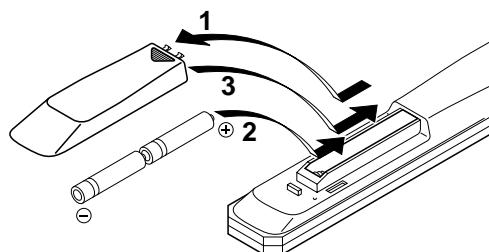
Tape Deck

- Automatic Synchronized Recording with CD
- EDIT Function Useful for Recording CD(s)
- Automatic Reverse
- Dolby B Type Noise Reduction System

Tuner

- 40 Station Preset Tuning
- Automatic Preset Tuning
- Multi-Function RDS Reception

Installing batteries in the remote control

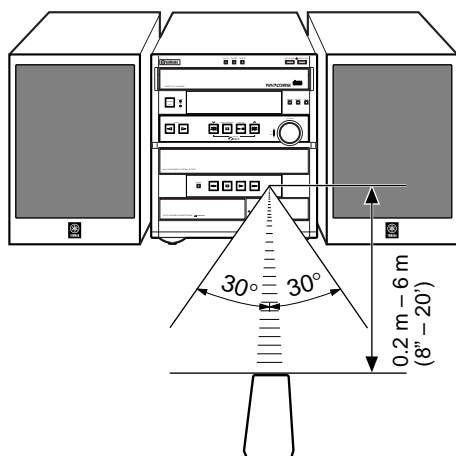


- 1 Turn the remote control over and remove the battery compartment cover by sliding it in the direction of the ∇ mark.
- 2 Insert the batteries (AA, R6, UM-3 type) according to the polarity markings on the inside of the battery compartment.
- 3 Attach the battery compartment cover.

Notes

- Be sure the polarities are correct. (see the illustration inside the battery compartment.)
- Remove the batteries if the remote control is not used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Be sure to use the same type of batteries.
- Do not use a new battery and an old battery together.

Remote control operation range



Notes

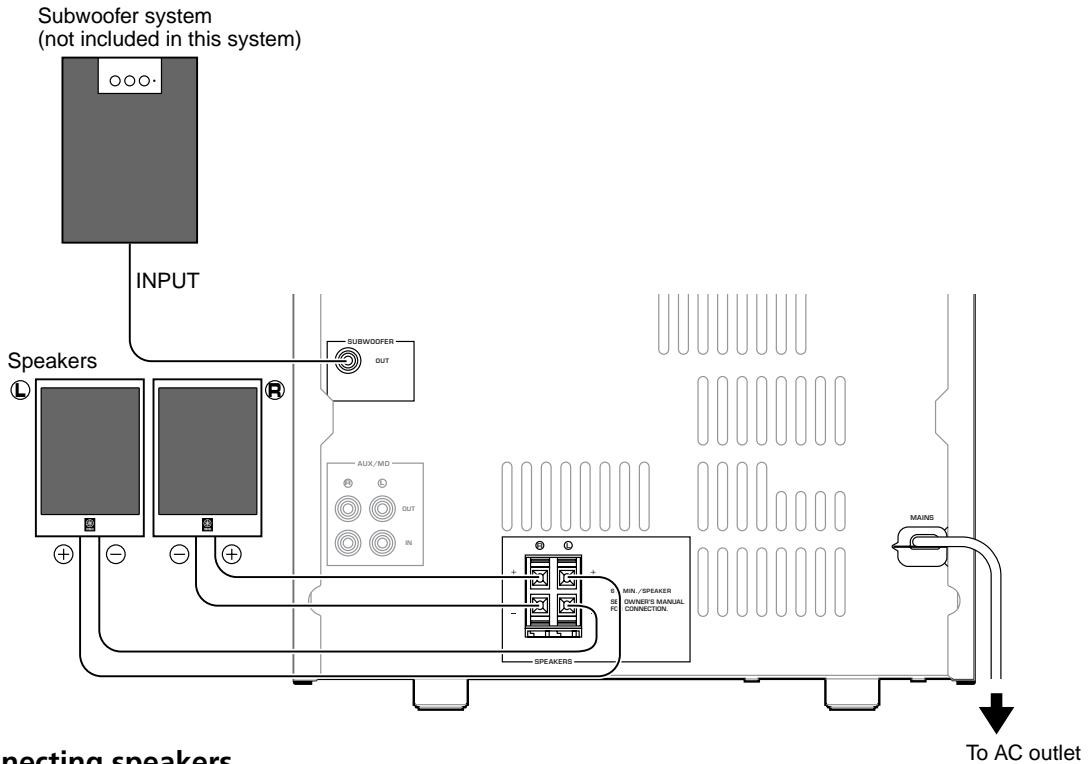
- The area between the remote control and the main unit must be clear of large obstacles.
- Do not expose the remote control sensor to strong lighting, in particular, an inverter type fluorescent lamp. Otherwise, the remote control may not work properly. If necessary, position the main unit away from direct lighting.

Battery replacement

If you find that the remote control must be used closer to the main unit, the batteries are weak. Replace both batteries with new ones.

Connections

Never plug the AC supply lead of this system into the AC outlet until all connections are completed.

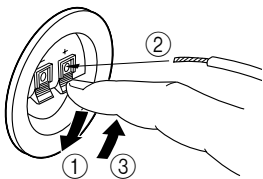


■ Connecting speakers

Connect the speakers to the corresponding speaker terminals on the rear of the main unit by using the speaker cords. Make sure that the polarity of the speaker cords is correct, that is the + and – markings are observed. If these cords are reversed, the sound will be unnatural and lack bass.

On the speakers

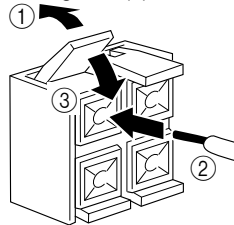
Red: positive (+)
Black: negative (–)



- ① Press the tab.
- ② Insert the bare wire.
[Remove approx. 5mm (1/4") insulation from the speaker wires.]
- ③ Release the tab and secure the wire.

On the main unit

Red: positive (+)
Black: negative (–)



- ① Pull up the tab.
- ② Insert the bare wire.
[Remove approx. 5mm (1/4") insulation from the speaker wires.]
- ③ Press down the tab and secure the wire.

Caution

Do not let the bare speaker wires touch each other as this could damage the amplifier and/or speakers.

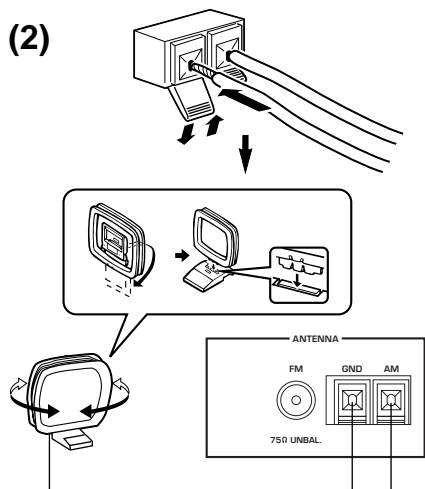
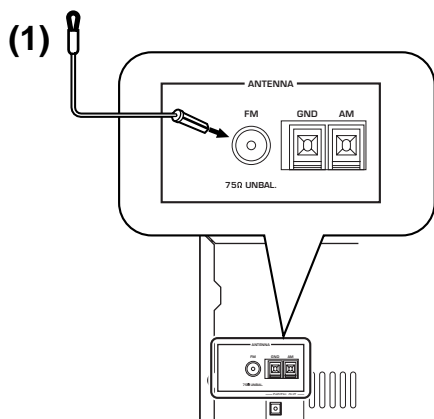
When connecting a subwoofer (not included in this system)

You may wish to add a subwoofer to reinforce the bass frequencies.

When connecting a subwoofer to this system, connect the **SUBWOOFER OUT** terminal of this system to the **INPUT** terminal of the subwoofer.

* Ordinary subwoofers, including the Yamaha Active Servo Processing Subwoofer System, are designed so that both the amplifier and subwoofer are contained in the same unit.

* The **SUBWOOFER OUT** terminal outputs low frequencies from both the left and right channels. (The cut-off frequency of this terminal is 200 Hz.)



■ Antenna connection

(1) Supplied FM antenna

Connect the FM antenna wire to the corresponding terminal and direct it to the direction where the strongest signal can be received.

(2) Supplied AM loop antenna

Connect the AM loop antenna wires to the corresponding terminals. Position the AM loop antenna for optimum reception.

Notes

- When static is still heard even after adjusting the position of the AM loop antenna, try reversing the wire connections (from the right terminal to the left one, and vice versa).
- The AM loop antenna should be placed apart from the main unit. The antenna may be hung on a wall.

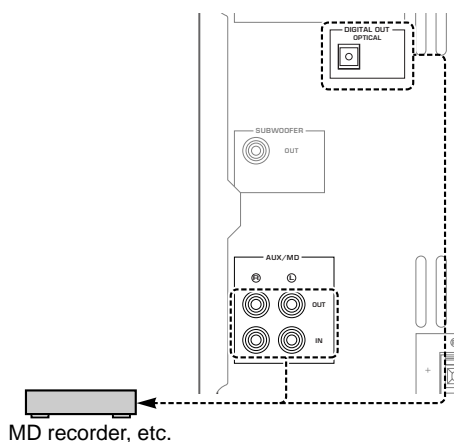
Using an external antenna

- If you need better reception, use an external FM antenna instead of an indoor FM antenna. Consult your dealer.
- Use an external AM antenna if you need better reception. Consult your dealer.

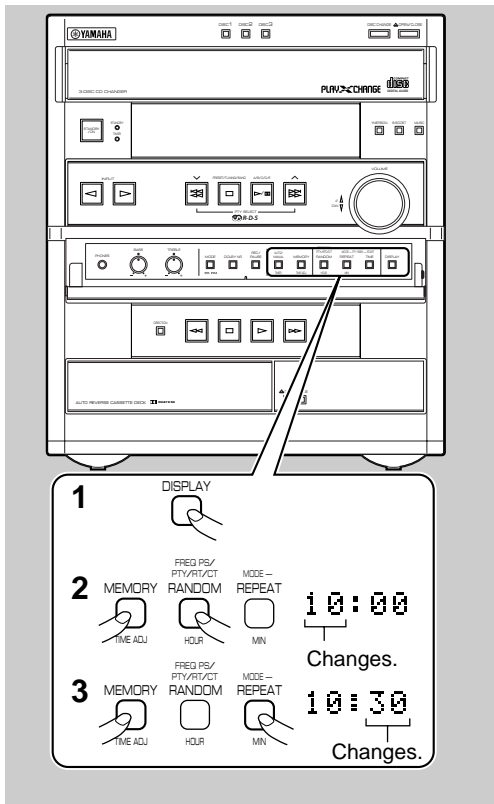
■ Connecting external components

This system can be connected with an external audio component. Make connections between this system and the component using RCA pin plug connector cables, by correctly connecting **L** (left) to **L** and **R** (right) to **R**. Also, refer to the owner's manual for the component to be connected to this system.

* A digital-to-digital recording is possible from a CD played on the built-in CD player to an MD (or tape) on an external MD recorder (or DAT) by connecting the **DIGITAL OUT (OPTICAL)** terminal on the rear of the main unit to the MD recorder (or DAT).



Setting the clock



1 While the power is on, press **DISPLAY** to display time.

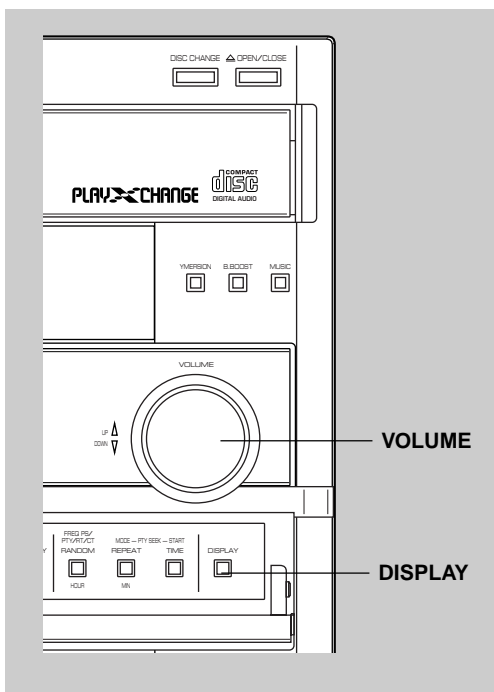
2 While holding down **TIME ADJ.**, press **HOUR** and set the hour.
* Press **HOUR** once to advance the time by 1 hour. Press and hold to advance continuously.

3 While holding down **TIME ADJ.**, press **MIN** and set the minute.
* Press **MIN** once to advance the time by 1 minute. Press and hold to advance continuously.
* The hour setting will not advance even if minute is advanced from "59" to "00".

Note

In the event of a power failure or when the AC supply lead is disconnected, the time display will go out; however, the clock will function for about 5 minutes without any power supply. Otherwise, the time display will flash on and off to indicate that time must be reset.

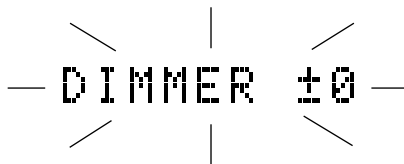
Adjusting brightness of the display



If desired, you can adjust the brightness of the display.

Press and hold **DISPLAY** for more than 2 seconds so that "DIMMER ±0" appears on the display.

While holding down **DISPLAY**, turn **VOLUME** clockwise to increase or counterclockwise to decrease brightness.

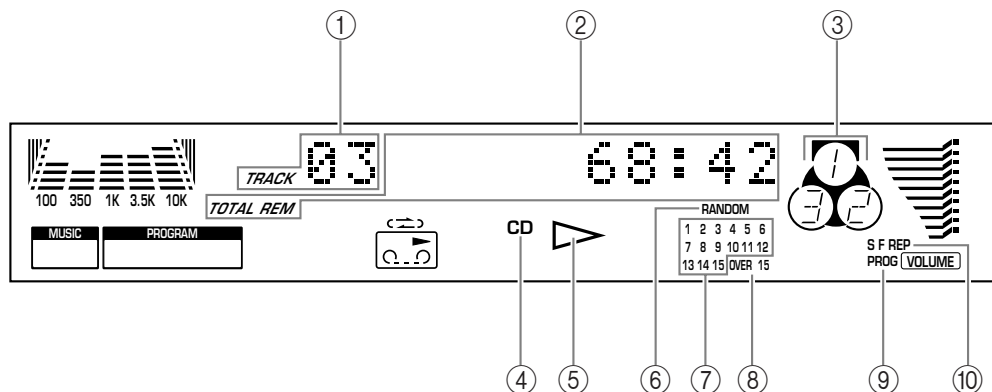


Control range: ±0 to -6 (Preset value: ±0)

CD player operation

Display information

Each indicator mentioned with a number on pages 10–15 corresponds to the indicator with the same number on this page.



① **TRACK (track number)**

② **Time display**

③ **Disc indicator**

The number on the top of this indicator shows the currently selected disc.

④ **CD (input source indicator)**

⑤ **(play)**

⑥ **RANDOM**

⑦ **Music calendar**

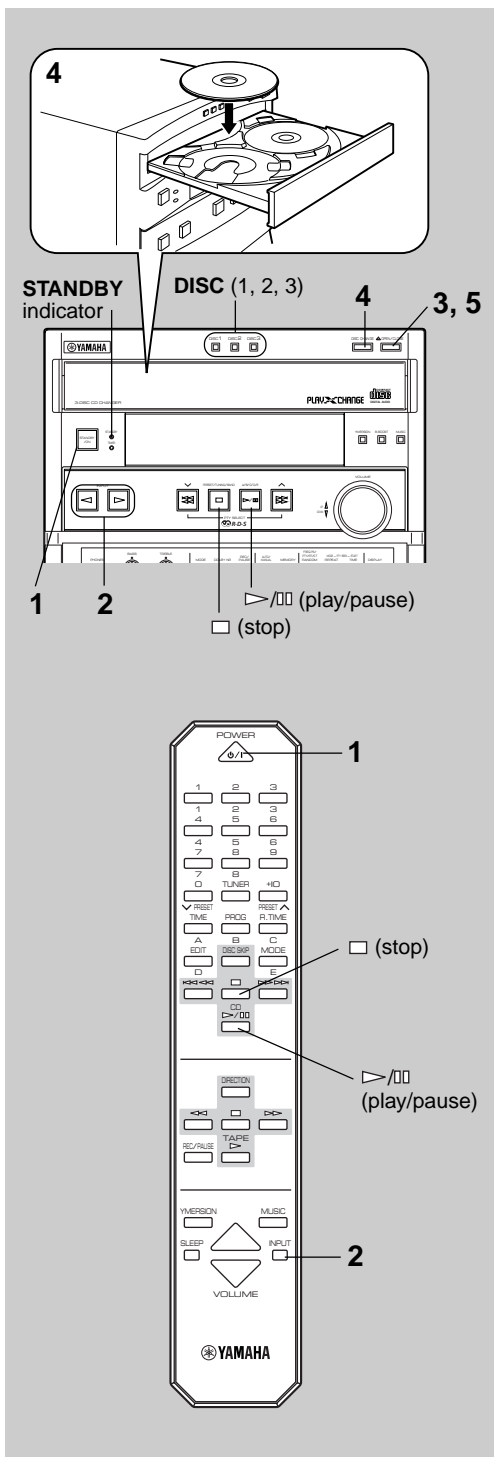
Track numbers on the currently selected disc will light up (up to the number 15).

⑧ **OVER 15**

This indicator will light up when the currently selected disc has more than 15 tracks.

⑨ **PROG (program)**

⑩ **(S, F) REP [(single, full) repeat]**



Basic play

- 1 Turn on the power.
- 2 Press **INPUT** ▷ or ◁ (or **INPUT** on the remote control) until “CD” (②) appears on the display.
- 3 Press **△ OPEN/CLOSE** to open the disc tray.

* The carousel will turn when you open the disc tray by pressing **△ OPEN/CLOSE**; therefore, make sure the carousel stopped moving completely before you perform further operations. Otherwise, you may cause damage to your discs, or you might injure yourself.

- 4 Place discs on the table with label side facing upward.
 - * Up to three discs can be loaded on the table.
 - To load the third disc, rotate the disc table by pressing **DISC CHANGE** on the front panel.
 - * 8 cm (3”) discs can be played without an adaptor.
 - * The disc placed on the right side is played first.
- 5 Press **△ OPEN/CLOSE** to close the disc tray.
 - * If the selected disc is a CD, the total number of tracks (①) and the total playing time of the disc (②) will be displayed for several seconds.
 - * If the disc contains more than 15 tracks, the “OVER 15” indicator (⑧) will light up.
 - * If the disc tray is closed by pushing the front edge of the tray, play will begin automatically.

- 6 Press ▷/⏸ to begin play.

To pause

Press ▷/⏸.

To stop play

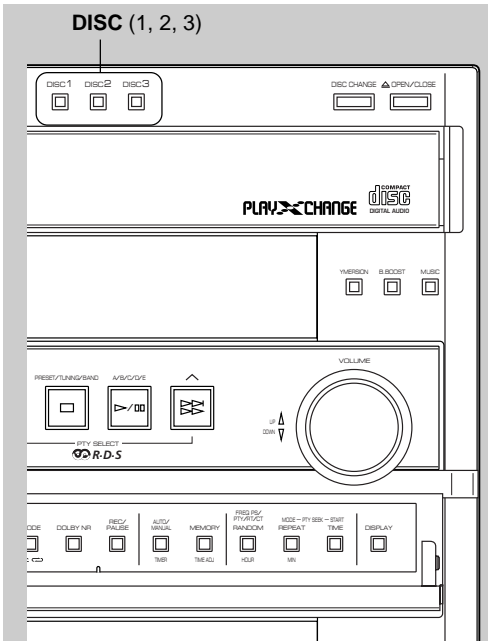
Press ◻.

To finish using this system

Turn this system into the standby mode by pressing **STANDBY/ON** (or **POWER** ⏻ on the remote control). The **STANDBY** indicator will light up and the display will go out.

Direct operation

DISC (1, 2 or 3) on the front panel and ▷/⏸ on the remote control can be used when this system is in the standby mode or another input source is selected.

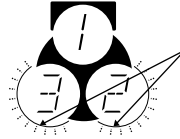


To change the disc play mode

If necessary, change the disc play mode by pressing **MODE** on the remote control.

All disc play mode: All discs on the disc tray are played sequentially (originally set to this mode).

Single disc play mode: Only the designated disc is played.



Lights up only when the all disc play mode is selected.

To select another disc

Press **DISC SKIP** on the remote control once or more (so that the corresponding disc number comes to the top position of the disc indicator (3)).

Pressing **DISC (1, 2 or 3)** will select the disc directly, and play will automatically begin from track 1.

To directly select the desired track

By using the numeric buttons on the remote control, any track you wish to listen to can be played directly.

Use the numeric buttons to select the desired track. Play will begin automatically.

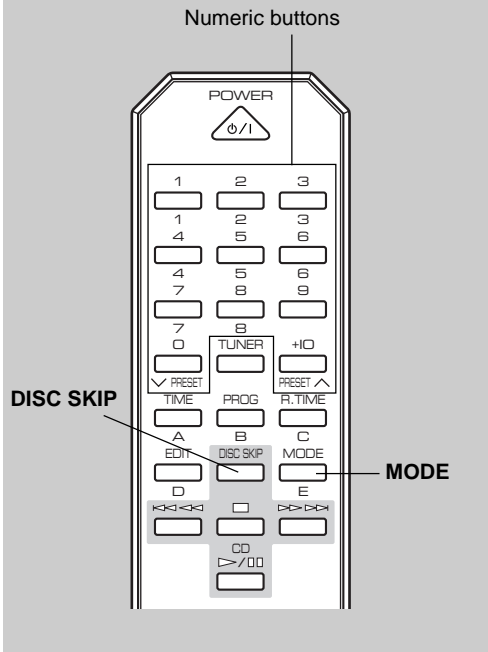
A. For example, to choose track 5
Press **5**.

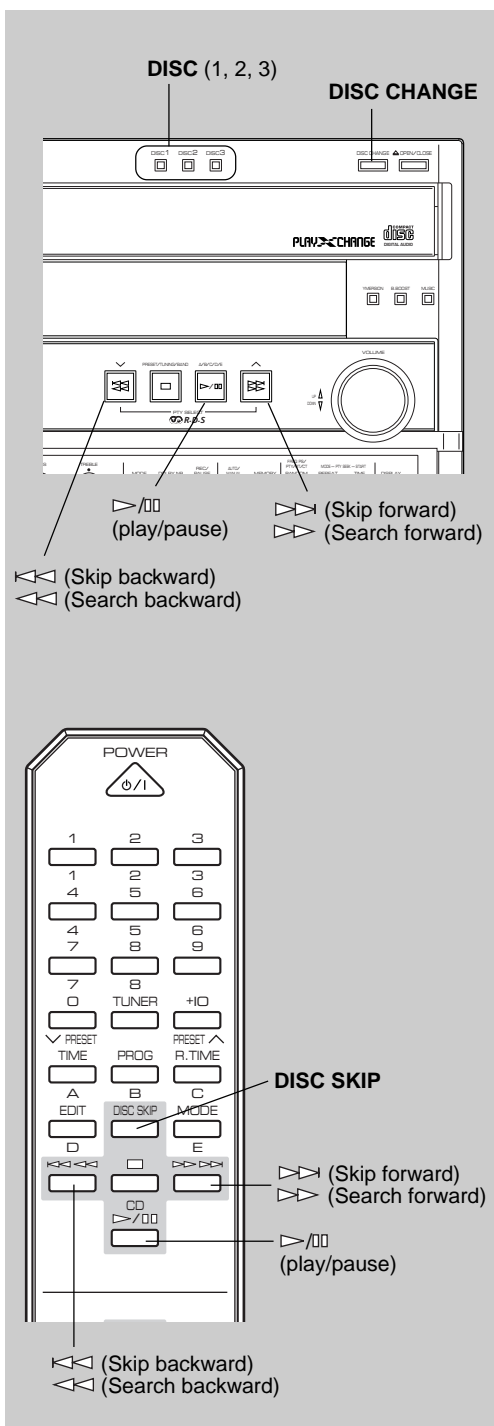
B. For example, to choose track 12
(1) Press **+10**.
(2) Within a few seconds, press **2**.

C. For example, to choose track 20
(1) Press **+10**.
(2) Within a few seconds, press **+10** again.
(3) Within a few seconds, press **0**.

Note

If you select a track number higher than the number of tracks on the disc, the last track of the disc may be played.





To play the desired track (Skip)

To advance to the next track

During play, press $\triangleright\triangleright$ ($\triangleright\triangleright$). Pressing $\triangleright\triangleright$ ($\triangleright\triangleright$) repeatedly advances to other tracks.

To return to the beginning of current track

During play, press $\triangleleft\triangleleft$ ($\triangleleft\triangleleft$) once.

To return to previous track

During play, press $\triangleleft\triangleleft$ ($\triangleleft\triangleleft$) twice in succession to return to the previous track.

Repeatedly press $\triangleleft\triangleleft$ ($\triangleleft\triangleleft$) to return to other previous tracks.

Note

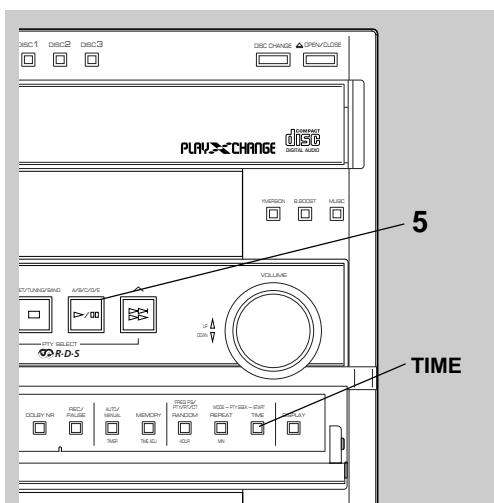
This function can also be performed while the CD player is being stopped. Press $\triangleright\triangleright$ when the desired track number appears on the track number display. Play will begin from the beginning of that track.

To advance or reverse play rapidly (Search)

Press and hold $\triangleright\triangleright$ ($\triangleright\triangleright$) to advance play rapidly, and $\triangleleft\triangleleft$ ($\triangleleft\triangleleft$) to reverse play rapidly.

To exchange a disc (or discs) while playing (PLAYXCHANGE)

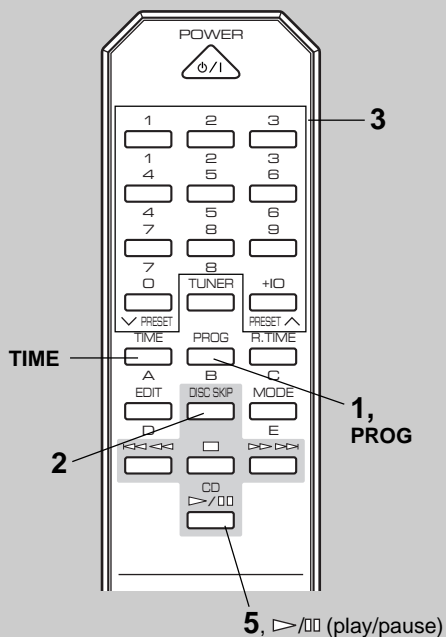
During play, you can open the disc tray by pressing **DISC CHANGE** without interrupting play. In this case, however, pressing **DISC SKIP** or **DISC (1, 2 or 3)** is invalid.



Program play

You can program up to 20 tracks in any desired order.

- 1 When the CD player is being stopped, press **PROG** to prepare for programming.
 - * “PROG” (⑨) and “P-01” (②) will light up on the display, and all track numbers on the selected disc (⑦) will begin blinking.
- 2 If necessary, select the desired disc by pressing **DISC SKIP**.
 - * Just after you change the disc, the CD player reads the contents of the newly selected disc for a few seconds. If you go on to the next step during this internal operation, “WAIT” (②) appears on the display and your operation is canceled.
- 3 Use the numeric buttons to select the desired track number.
 - * The selected track number (①) and the total play time of the programmed tracks (②) will light up on the display, and it will soon be replaced by the display of the next play order (②). Programmed track numbers on the selected disc will stop flashing and light up on the music calendar (⑦).
 - * Pressing **TIME** displays the total play time of the programmed tracks (②) for about 1 second, and then it is replaced by the display of the next play order (②).
- 4 Repeat steps 2 and 3 to program other tracks.
- 5 Press \triangleright/\square to start the program play.



Notes

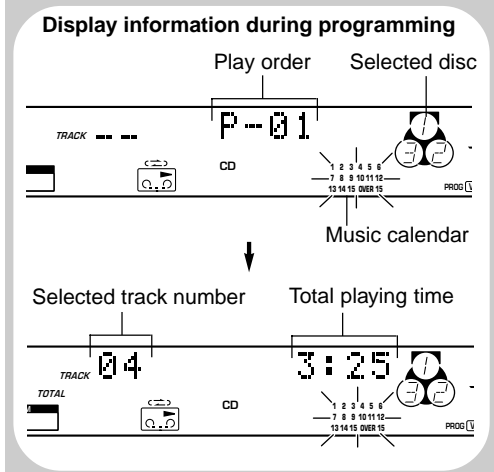
- If the total time of the programmed tracks becomes 100 minutes or more, the first digit will not be displayed.
- The total time of the programmed tracks will not be displayed if track number 16 or higher is programmed.
- Skip (\lll/\ggg) can be performed during play, but only within the range of the programmed tracks.
- Search (\lll/\ggg) can be performed during play to search all tracks, including unprogrammed tracks.

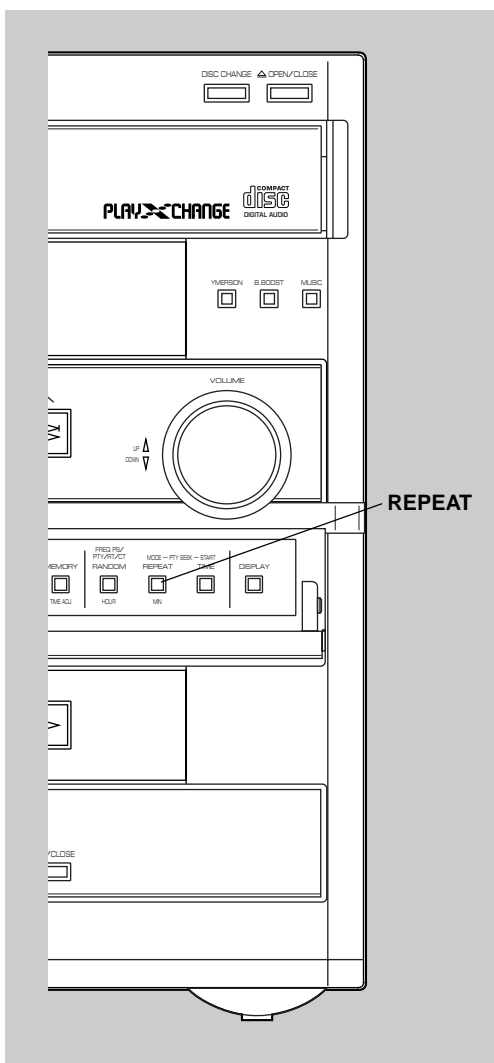
To cancel a programmed sequence

Press \square while the CD player is being stopped.

To check (and correct) program data

1. Press **PROG** when the CD player is being stopped.
2. Every time \ggg is pressed, the track numbers and sequential order of the programmed tracks can be checked one after another. The display of the track number can be returned (sequentially in reverse order) by pressing \lll .
3. If you want to correct the program data, press a numeric button to select the track to replace the one displayed. The previously programmed track will be cleared from the memory and the new one will be programmed. To complete the correction, press **PROG** or \triangleright/\square once again.





Repeat play

All discs, a disc, a single track or a programmed sequence can be repeated continuously.

Press **REPEAT** once or more to select the desired repeat play mode so that the S REP or F REP indicator (Ⓢ) is illuminated.



Repeat play modes

SINGLE REPEAT (S REP)

A single track is played repeatedly.

* This is also available in the program play mode and the random play mode. (If the repeat play mode is switched off, the program play mode or the random play mode will be resumed.)

FULL REPEAT (F REP)

When the CD player is in the single disc play mode:

The designated disc is played repeatedly.

* In the random play mode, the selected disc is repeatedly played, but the order of tracks is different each time.

When the CD player is in the all disc play mode:

All discs on the disc tray are played repeatedly.

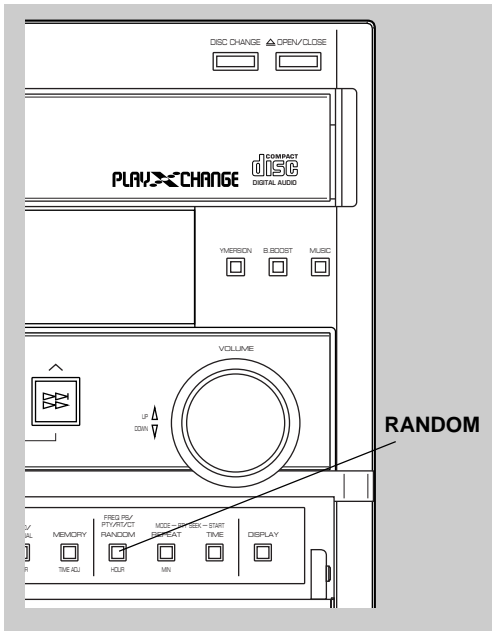
* In the random play mode, the random play is performed among all discs and repeated with a different order of tracks each time.

Note

In the program play mode, a sequence of programmed tracks is played repeatedly.

To cancel the repeat play

Press **REPEAT** repeatedly until the (S, F) REP indicator (Ⓢ) goes out.



Random play

Tracks on a selected disc or all discs on the disc tray can be played randomly.

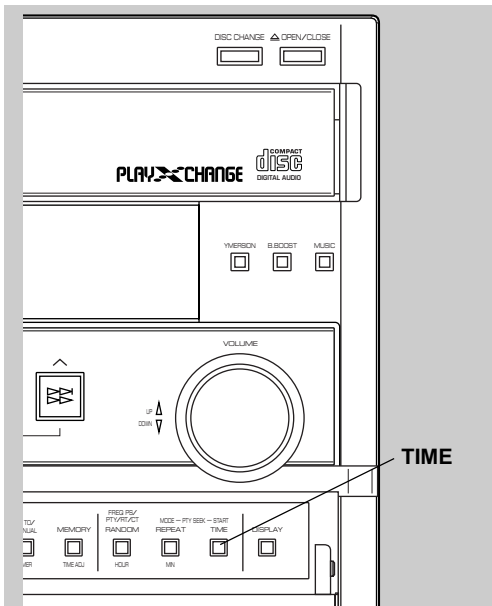
- 1 If necessary, switch the disc play mode by pressing **MODE**.
 - * If the single disc play mode is selected, select the desired disc by pressing **DISC SKIP**.
- 2 Press **RANDOM** to begin random play.
 - * The “RANDOM” indicator (⑥) will light up.

To cancel the random play

Press **□**, or press **RANDOM** so that the “RANDOM” indicator (⑥) will go out.

Note

This feature will not function during programming or program play.



Switching the time display

Every time **TIME** is pressed, the display will change as described below.

[Example]

When the second track is being played:

The elapsed play time for the current track will be displayed.

TRACK 02 0:08



The remaining play time for the current track will be displayed.

TRACK 02 2:58
REM



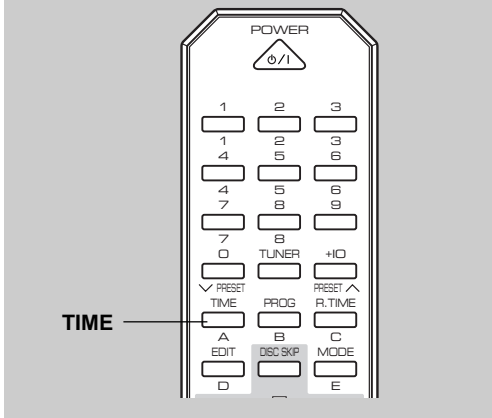
The total play time of the disc will be displayed.

TRACK 02 45:23
TOTAL



The total remaining play time of the disc will be displayed.

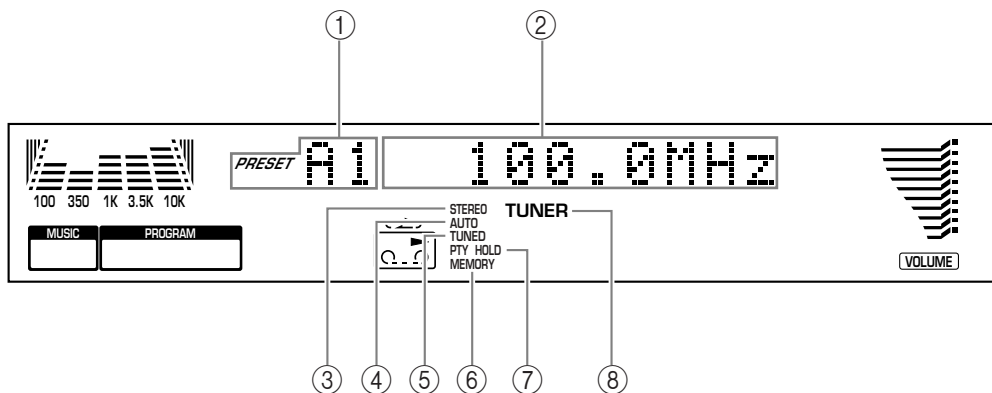
TRACK 02 41:00
TOTAL REM



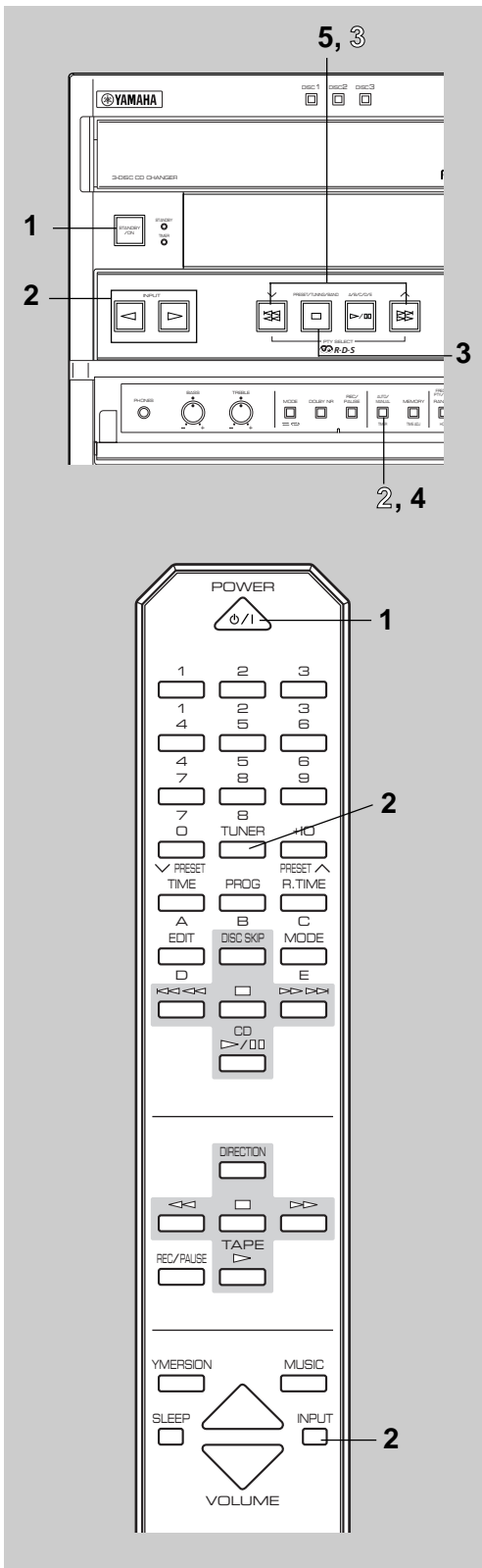
Tuning operation

Display information

Each indicator mentioned with a number on pages 17–23 corresponds to the indicator with the same number on this page.



- ① Preset station group and number indicator
- ② Multi-information display
- ③ STEREO
- ④ AUTO
- ⑤ TUNED
- ⑥ MEMORY
- ⑦ PTY HOLD
- ⑧ TUNER (input source indicator)



Automatic tuning

- 1 Turn on the power.
- 2 Press **INPUT** \triangleright or \triangleleft until “TUNER” (②, ⑧) appears on the display, or simply press **TUNER** on the remote control.
- 3 Select the reception band (FM or AM) by pressing **PRESET/TUNING/BAND** (or **TUNER** on the remote control), and confirm it on the display (②).
 - * Do not select the preset tuning mode (in which “PRESET” (①) lights up on the display).
- 4 Press **AUTO/MANUAL** so that “AUTO” (④) lights up on the display.
- 5 Press \wedge to tune to a higher frequency, or press \vee to tune to a lower frequency.
(When tuned in to a station, “TUNED” (⑤) will light up on the display.)
- 6 If the station where tuning search stopped is not the desired one, follow step 5 again.
 - * If the tuning search does not stop at the desired station, change to the Manual tuning method as described below.
 - * “STEREO” (③) will light up when an FM stereo broadcast with sufficient signal strength is received.

Direct operation

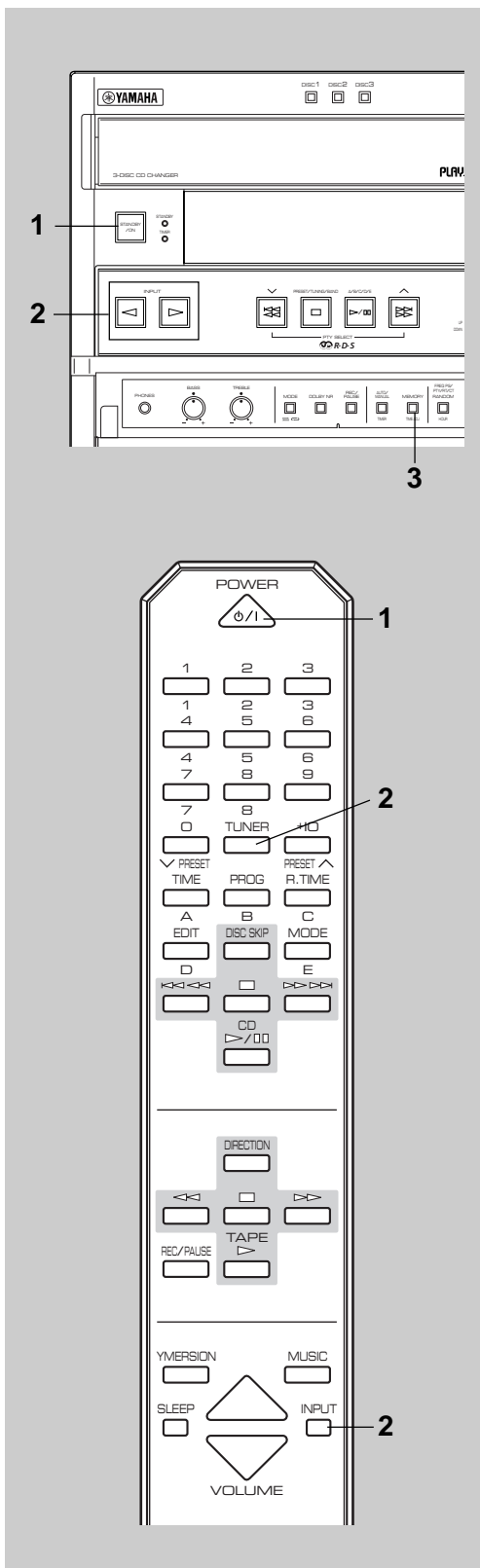
TUNER on the remote control will work if it is pressed when this system is in the standby mode or another input source is selected.

Manual tuning

- 1 Follow steps 1–3 of the Automatic tuning method.
- 2 Press **AUTO/MANUAL** so that “AUTO” (④) disappears from the display.
- 3 Press and hold \wedge to tune to a higher frequency, or press and hold \vee to tune to a lower frequency.
Release the button just before reaching the desired frequency, and then press it repeatedly until the desired frequency appears.
(When tuned in to a station, “TUNED” (⑤) will light up on the display.)

Note

If you tune in to an FM station manually, it is received in monaural to increase the signal quality.



Automatic preset tuning

You can make use of an automatic preset tuning function. With this function, the built-in tuner performs automatic tuning. Up to 40 stations [8 stations x 5 groups (A, B, C, D and E)] are stored automatically.

- 1 Turn on the power.
- 2 Press **INPUT** \triangleright or \triangleleft until “TUNER” (②, ⑧) appears on the display, or simply press **TUNER** on the remote control.
- 3 Press and hold **MEMORY** for more than 2 seconds.
 - * The “MEMORY” (⑥) and “AUTO” (④) indicators flash.

The tuner performs automatic tuning and searches for FM stations first and then AM stations. Received stations are programmed sequentially to A1, A2, A3 and so on.

When the automatic preset tuning is completed;

The display shows the frequencies of the first preset station (stored to A1).

If you want to check the contents and the number of preset stations, follow the procedure in the section “To recall a preset station” on page 19.

To recall a preset station

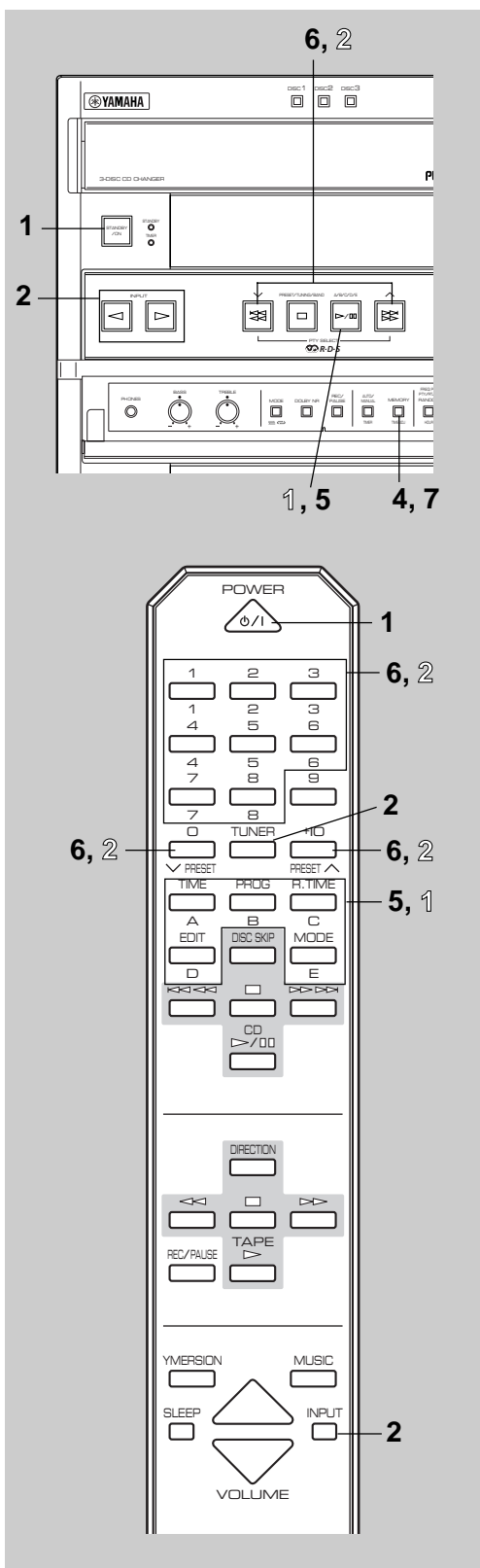
Simply follow the procedure in the section “To recall a preset station” on page 19.

Notes

- The automatic preset tuning search will be performed through all frequencies until 40 stations are stored. If the number of received stations is less than 40, the search will stop after searching all frequencies.
 - * Since FM stations are searched for first, there may be a case that 40 preset stations are occupied by FM stations only.
- With this function, only stations with sufficient signal strength are stored automatically. If the station you want to program is weak in signal strength, tune in to it with the Manual tuning method (in monaural) and program it by following the procedure in the section “To store stations” on page 19.
- You can replace a preset station with another FM or AM station manually by simply following the procedure in the section “To store stations” on page 19.

Memory back-up

The memory back-up circuit prevents the programmed data from being lost even if the AC supply lead is disconnected from the AC outlet or the power is cut due to temporary power failure. If, however, the power is cut for more than one week, the memory may be erased. If so, it can be re-programmed by simply following the Preset tuning steps.



Manual preset tuning

The built-in tuner can store station frequencies selected by tuning operation. With this function, you can select any desired station only by calling the corresponding preset station number. Up to 40 stations (8 stations x 5 groups) can be stored.

■ To store stations

- 1 Turn on the power.
- 2 Press **INPUT** ▷ or ◁ until “TUNER” (②, ⑧) appears on the display, or simply press **TUNER** on the remote control.
- 3 Turn in to the desired station.
- 4 Press **MEMORY**.
* “MEMORY” (⑥) and “PRESET” (①) will flash on the display for about 5 seconds.
- 5 Select the desired group (A – E) of preset stations by pressing **A/B/C/D/E** before “MEMORY” (⑥) goes out. Confirm the selection on the display.
- 6 Select a preset station number by pressing ∨ or ∧ repeatedly or pressing a numeric button (1 to 8) before “MEMORY” (⑥) goes out.
- 7 Within about 5 seconds, press **MEMORY** again.

■ To recall a preset station

- 1 Select a group of preset stations by pressing **A/B/C/D/E**.
- 2 Select the desired preset station number by pressing ∨ or ∧ repeatedly or pressing a numeric button (1 to 8).

Notes

- A new setting can be programmed in place of the former one.
- As for the preset stations, the setting of **AUTO/MANUAL** is stored along with the station frequency.



Receiving RDS stations

RDS (Radio Data System) is a data transmission system employed by FM stations in many countries. Stations using this system transmit an inaudible stream of data in addition to the normal radio signal.

RDS data contains various information, such as PI (Program Identification), PS (Program Service name), PTY (Program Type), RT (Radio Text), CT (Clock Time), etc.

RDS function is carried out only among the network stations.

* The built-in tuner utilizes PS, PTY, RT and CT to receive RDS broadcast stations.

■ RDS modes

The built-in tuner uses the following four modes to display RDS data.

PS (Program Service name) mode

PTY (Program Type) mode

There are 15 program types to classify RDS stations as described below.

RT (Radio Text) mode

CT (Clock Time) mode

PTY modes

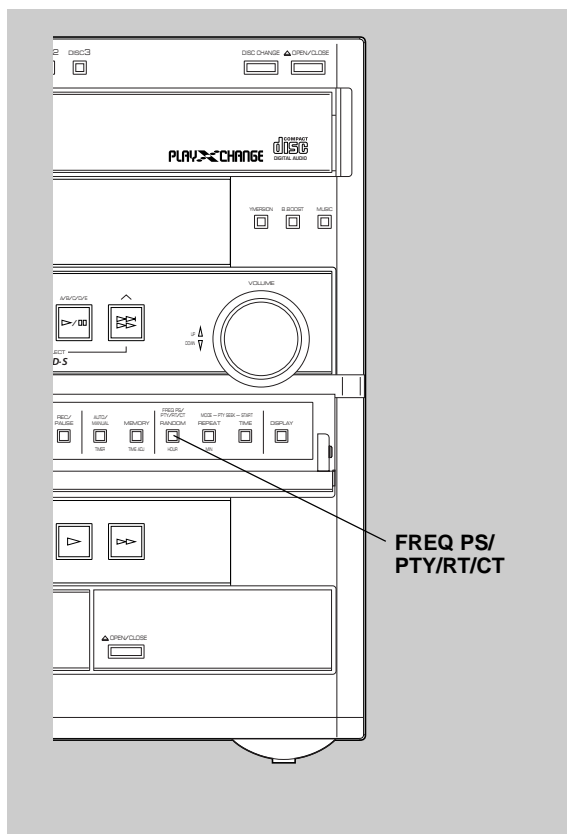
NEWS	News	VARIED	Light entertainment
AFFAIRS	Current affairs	POP M	Pops
INFO	General information	ROCK M	Rock
SPORT	Sports	M.O.R. M	Middle of the road music (easy-listening)
EDUCATE	Education	LIGHT M	Light classics
DRAMA	Drama	CLASSICS	Serious classics
CULTURE	Culture	OTHER M	Other music
SCIENCE	Science		

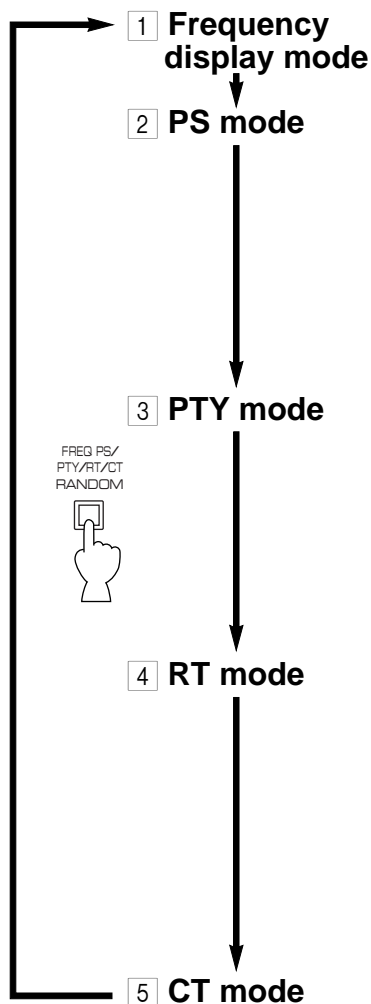
■ Changing the RDS modes

When an RDS station is received by pressing **FREQ PS/PTY/RT/CT** once or more, you can change the display among the RDS modes provided by the received station in the order shown on the next page. (The RDS mode not provided by the station cannot be selected.)

Notes

- If the received station is not an RDS station, pressing **FREQ PS/PTY/RT/CT** displays "NO RDS" on the display, and then it returns to the frequency display mode.
- When an RDS station is received, the display is automatically turned into the PS mode. Do not press **FREQ PS/PTY/RT/CT** until the display is turned into the PS mode. If the button is pressed before the display mode changes, it may occur that "PS WAIT" appears on the display. This is because the tuner has not yet received all of the RDS data on the station.





1 Frequency display mode

The frequency of the station being received is displayed.

2 PS (Program Service name) mode

The name of the station being received is displayed using characters selected from among 64 Roman Alphabets including the umlaut.

- * If other characters are used on the PS data, they are replaced by underbars.
- * “PS WAIT” may flash while the tuner is receiving the data.
- * If the station does not employ the PS data service, “NO PS” lights up on the display for about 2 seconds and then returns to the frequency display mode.

3 PTY (Program Type) mode

The type of the program on the station being received is displayed. In this mode, you can make this unit search for a station which is broadcasting a program of your desired program type. For details, refer to the next page.

- * If the RDS station does not employ the PTY data service, “NO PTY” lights up on the display for about 2 seconds and then returns to the frequency display mode. If the station has PS data, it turns into the PS mode after that.

4 RT (Radio Text) mode

Information about the program on the station being received is displayed. Information is displayed using characters selected from among 64 Roman Alphabets including the umlaut.

- * If other characters are used on the RT data, they are replaced by underbars. “RT WAIT” may flash while the tuner is receiving the data.
- * If the RDS station does not employ the RT data service, “NO RT” lights up on the display for about 2 seconds and then returns to the frequency display mode. If the station has PS data, it turns into the PS mode after that.

5 CT (Clock Time) mode

Current time is displayed in the following form. The CT data from the station being received changes every minute.

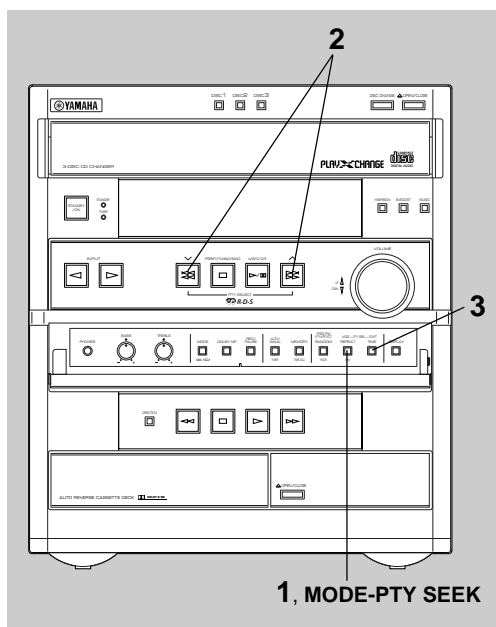
00:00
 Hour Minute

The tuner corrects the time of the built-in clock by synchronizing it with the CT data. (This function can also be canceled, if so desired. Refer to page 23 for details.)

- * “CT WAIT” may flash while the tuner is receiving the data. If the data is accidentally cut off, “CT WAIT” may flash and then turn into “NO CT”.
- * If the RDS station does not employ the CT data service, “NO CT” lights up on the display for about 2 seconds and then returns to the frequency display mode. If the station has PS data, it turns into the PS mode after that.

Notes

- RDS data service cannot be used if the received signal is not strong enough. The RT (Radio Text mode) especially needs much data to be received, so it may occur that RT mode cannot be displayed even if other RDS modes (PS, PTY, etc.) are displayed.
- There may be a case that RDS data reception is not possible due to poor reception conditions. In such a case, press **AUTO/MANUAL** to tune manually. Though the reception mode is changed to monaural by this operation, RDS data may be displayed when you change the display to an RDS mode.
- If the signal strength gets weakened by external interference when receiving an RDS station, the RDS data service may be cut off suddenly and turn into the frequency display mode.



■ Calling a program of your desired program type from among preset RDS stations (PTY SEEK)

By designating a program type, the tuner automatically searches all preset FM stations for an RDS station which broadcasts a program of that specific program type.

* There are 15 program types to classify RDS stations. For details, refer to page 20.

1 Turn the tuner into the PTY SEEK mode by pressing **MODE-PTY SEEK**.

* The name of the program type of the station now being received or "NEWS" flashes on the display.

2 Select the desired program type by using **PTY SELECT** \vee or \wedge .

* If there is no operation for about 20 seconds, this mode is canceled and turns into the frequency display. If the station has PS data, it turns into the PS mode after that.

3 Press **PTY SEEK-START**.

The tuner begins searching all preset FM stations.

* "PTY HOLD" (⑦) lights up on the display.

* The name of the program type and "AUTO" (④) flash. The preset station number (①) changes rapidly in sequence.

- If a station which broadcasts a program of the desired program type is found, the search stops at the station and turns into the frequency display. If the station has PS data, it turns into the PS mode after that.
- If the called station is not the desired one, press **PTY SEEK-START** once more. The tuner begins searching for another station which broadcasts a program of the same program type.
- If no station is found, "NO PTY" appears and then returns to the frequency display. If the station has PS data, it turns into the PS mode after that.
 - * If **PTY SEEK-START** is pressed once more when searching, this mode is canceled and turns into the frequency display. If the station has PS data, it turns into the PS mode after that.

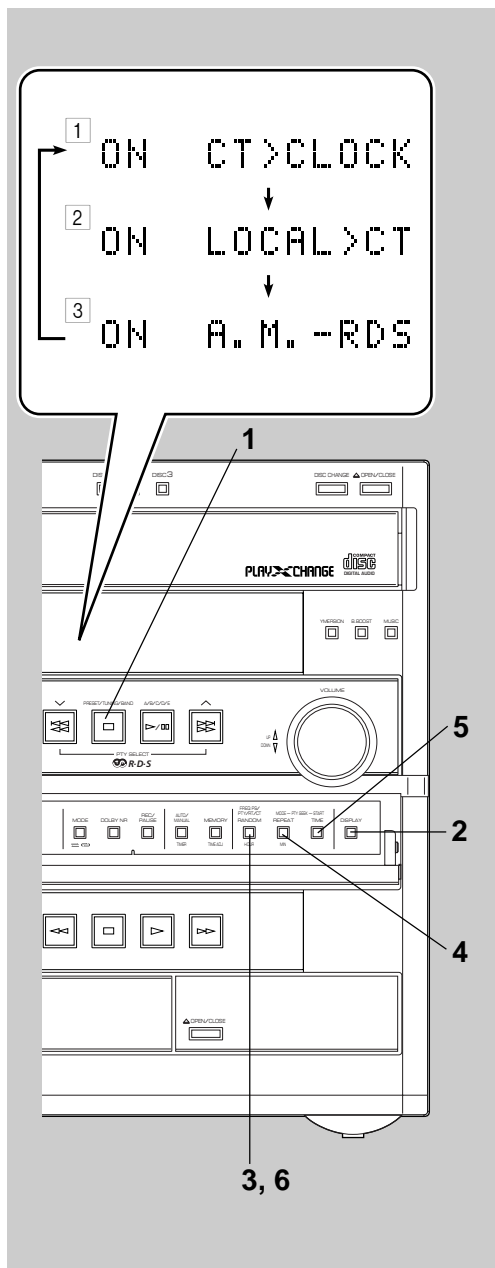
To cancel the PTY SEEK mode

If **MODE-PTY SEEK** is pressed twice, the PTY SEEK mode is canceled and turns into the frequency display. If the station has PS data, it turns into the PS mode after that.



Other functions using the RDS data service

The tuner has the following functions which uses the RDS data service. These functions are originally set to ON; however, you can cancel these functions [OFF], if so desired.



1 ON (OFF) CT > CLOCK

The tuner automatically corrects the time of the built-in clock by synchronizing it with the CT data on the RDS station being received.

- * If you receive an RDS station of some other country, the built-in clock is synchronized with the time setting of that country.
- * If the built-in clock is not yet set for the current time or reset due to a power failure etc., it will be set for the time of the CT data automatically, whether this setting is ON or OFF.

2 ON (OFF) LOCAL > CT

If the RDS station being received employs the local time (summer time etc.) data service, its time is displayed in the CT mode.

- * If the setting of function 1 is "ON", the built-in clock is synchronized with the local time data.

3 ON (OFF) A.M.-RDS (AUTO MEMORY > RDS)

Only RDS stations are searched instead of all FM stations by the automatic preset tuning operation when the setting is ON. (Refer to page 18 for the operating procedure.)

If you switch this function OFF, not only RDS stations but also other FM stations are programmed along with AM stations by the automatic preset tuning operation.

To switch these functions on and off

- 1 Select the FM band by pressing the **PRESET/TUNING/BAND**, and confirm it on the display.
- 2 Press **DISPLAY** to display the current time.
- 3 Press **FREQ PS/PTY/RT/CT**.
The title of function 1 "ON CT > CLOCK" is displayed.
- 4 Select the title of function whose setting you want to switch by pressing **MODE-PTY SEEK** once or more.
- 5 Switch the function ON or OFF by pressing **PTY SEEK-START**, and confirm it on the display.
- 6 Press **FREQ PS/PTY/RT/CT** again to restore the frequency display mode.
* If the station has PS data, it turns into the PS mode after the frequency display mode returns.

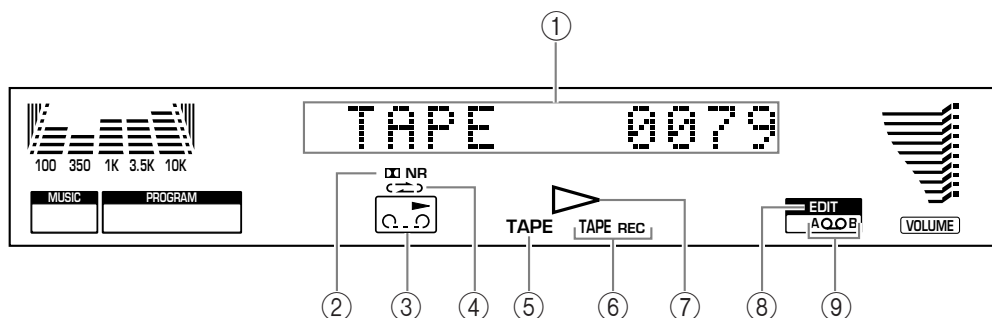
Notes

- Once the setting is changed, it will be stored until it is changed again by the above operation.
- During the operation, if there is no operation for about 20 seconds, this mode is canceled and turns into the frequency display. If the station has PS data, it turns into the PS mode after that.

Playing back a tape

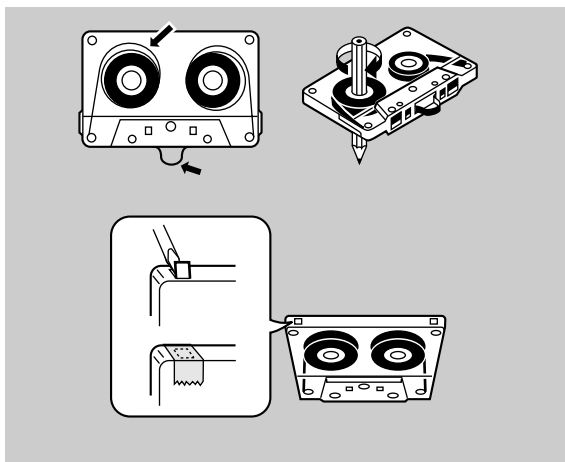
Display information

Each indicator mentioned with a number on pages 25–31 corresponds to the indicator with the same number on this page.



- | | | |
|----------------------------|------------------------------------|-----------------------|
| ① Tape counter | ④ Reverse mode indicator | ⑦ ▷ (play) |
| ② NR (DOLBY NR) | ⑤ TAPE
(input source indicator) | ⑧ EDIT |
| ③ Tape direction indicator | ⑥ TAPE REC | ⑨ Tape side indicator |

General information




- Do not use C-120 tapes or poor quality tapes, since they can cause malfunctions.
- Before loading a tape on the tray, tighten the tape slack with a pen or pencil.
- Tapes have removable tabs which prevent accidental recording or erasing from taking place. Removing the tab on the top left corner protects the side facing you from erasure. Cover the tab holes with adhesive tape to erase or record again.
- The tape deck features an automatic tape selector. Just load the tape, and the type of tape being used will be sensed automatically.
- The tape deck can play back metal tapes as well as normal or high position tapes; however, recording cannot be done on metal tapes with good sound quality.

Dolby B Type Noise Reduction


Dolby noise reduction is an extremely effective method of reducing undesirable background hiss on tapes. The built-in tape deck incorporates Dolby B type noise reduction system.

DOLBY NR is useful for both recording and playback; be sure that the same noise reduction is used on recording and playback.

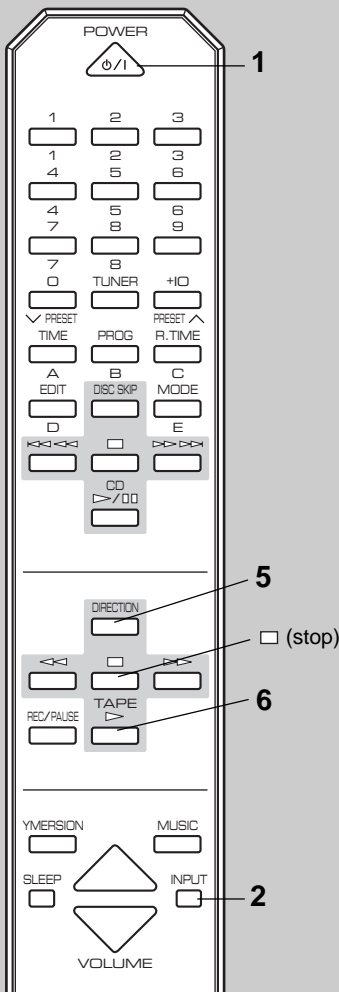
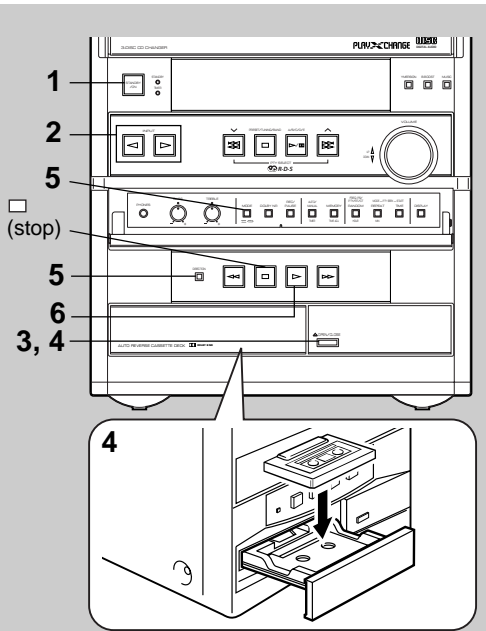
Dolby noise reduction is manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

About the tape counter

The tape deck is equipped with a tape counter that is useful for searching and locating a desired point on the tape. The tape counter is shown on the display.

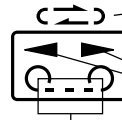
Pressing  (stop) when the deck is being stopped will reset the tape counter to "0000".





Basic operation

- 1 Turn on the power.
- 2 Press **INPUT** \triangleright or \triangleleft until "TAPE" (①, ⑤) appears on the display.
- 3 Open the tray by pressing \triangle **OPEN/CLOSE**.
- 4 Load the tape on the tray with side A facing upward, and close the tray by pressing \triangle **OPEN/CLOSE** or pushing the front edge of the tray gently.
- 5 Press **MODE** or **DIRECTION** to change the current setting if necessary.



Reverse mode indicator (④)

Tape direction indicator (③)

Moves slowly in the current tape running direction during playback.

MODE			
DIRECTION	Side A only	Side A → Side B	Side A → Side B ↑ (Repeats 8 times) Starts from side A.
	Side B only	Side B only	Side B → Side A ↑ (Repeats 8 times) Starts from side B. (Side A is not played the first time.)

- 6 Press \triangleright .
Playback begins.

To stop playback

Press \square .

To remove the tape

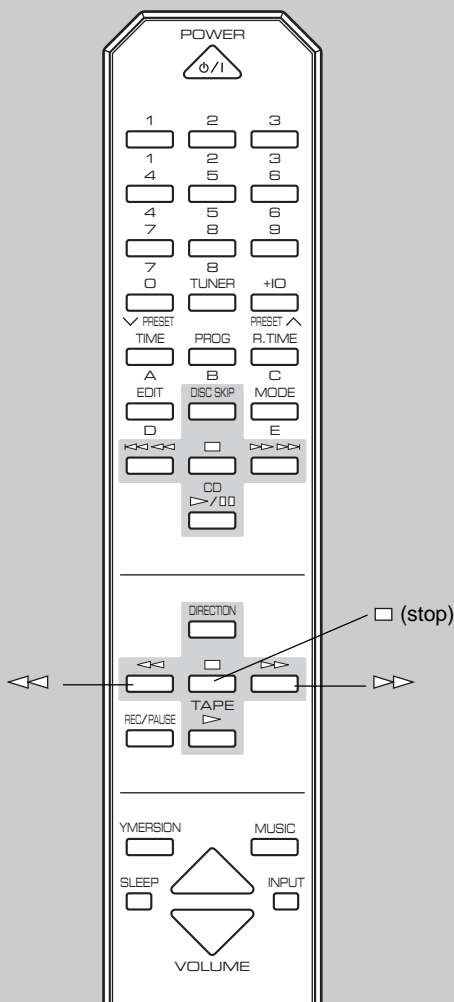
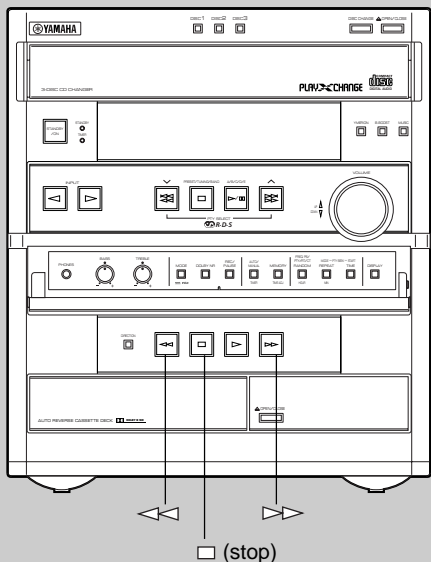
Open the tray by pressing \triangle **OPEN/CLOSE**.

Direct operation

\triangleright and \triangle **OPEN/CLOSE** will work if they are pressed when this system is in the standby mode or another input source is selected.

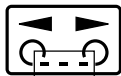


Playing back a tape



Winding the tape

1 Press ◀◀ or ▶▶ to wind the tape.



Moves rapidly in the current tape running direction while winding.

2 Press □ to stop.

Note

When the tape is wound to the end, the tape deck will then function as described below.

- ⏮ : The tape stops at the end.
- ⏮▶ : If the winding direction is ▶, playback automatically starts from the reverse side when the tape reaches the end.
If the winding direction is ◀, the tape stops at the end.
- ◀⏮ : When the tape reaches the end, playback automatically starts from the reverse side.

Searching for the beginning of the desired selection

Press ◀◀ or ▶▶ during playback.

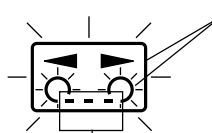
The tape deck will find a blank interval between selections and start playback automatically.

To listen to the same selection

- Press ◀◀ if the direction of the current playback is ▶.
- Press ▶▶ if the direction of the current playback is ◀.

To listen to the next selection

- Press ▶▶ if the direction of the current playback is ▶.
- Press ◀◀ if the direction of the current playback is ◀.

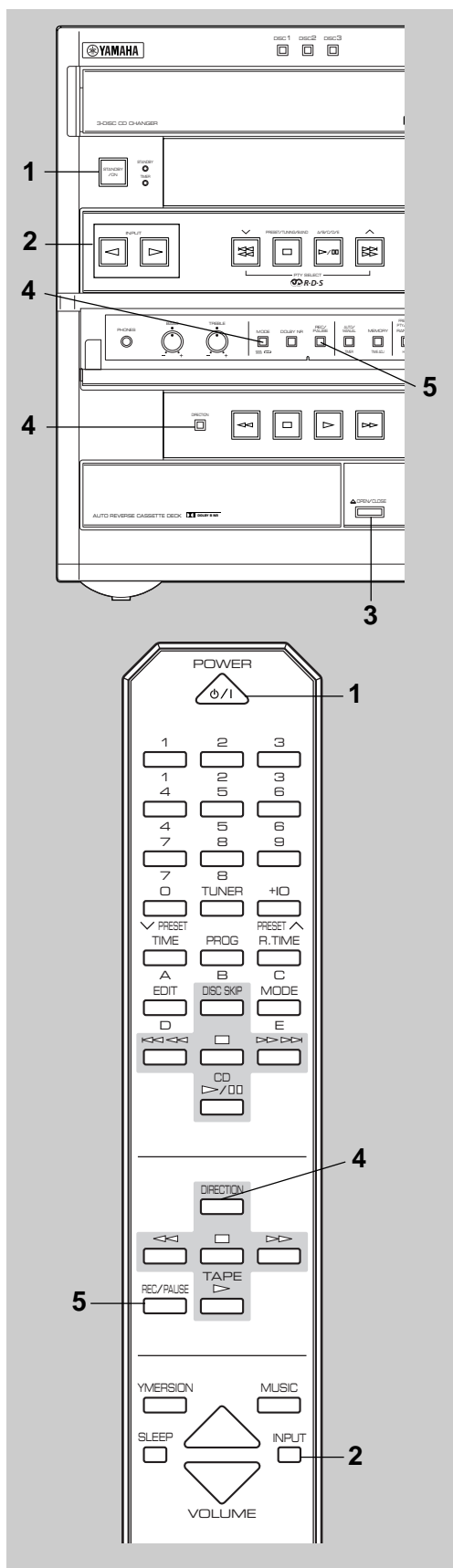


Blinks on and off.

Moves rapidly in the current tape running direction while searching.

Notes

- This function may not work for tapes with
 - * Material with long pauses or quiet passages.
 - * Low recording levels or excessive noise.
 - * Pauses of less than 4 seconds between selections.
- If searching is carried out near the beginning or the end of a selection, the searching may not be done successfully.



Notes

- Adjusting the **VOLUME**, **BASS** and **TREBLE** controls, and the use of **B. BOOST**, **MUSIC** and **YMERSSION** have no effect on the recorded sound. The recording level is automatically adjusted.
- If you want to make a recording using Dolby NR, press **DOLBY NR** so that “NR” (②) lights up on the display. If not, turn “NR” (②) off.
* For details, refer to “Dolby B Type Noise Reduction” on page 24.

Basic recording

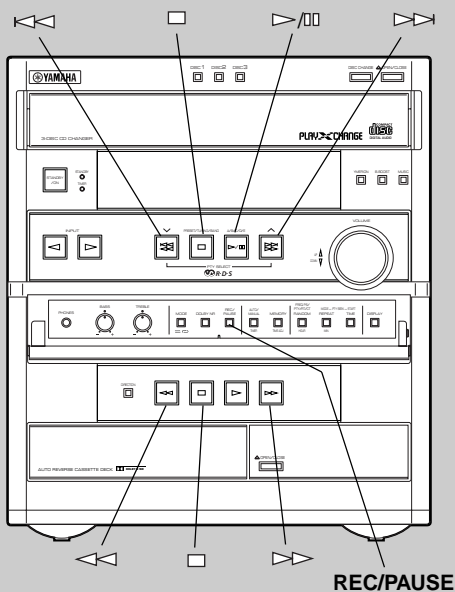
- Turn on the power.
- Press **INPUT** \triangleright or \triangleleft repeatedly to select the source you want to record.
- Load a tape on the tray with side A facing upward.
- Press **DIRECTION** or **MODE** to change the current setting, if necessary.

	MODE	
	\rightarrow	\rightarrow \leftarrow
DIRECTION		
	Side A only	Side A \rightarrow Side B
	Side B only	Side B only

- Press **REC/PAUSE**.
* “TAPE REC” (⑥) lights up on the display.
- Begin playing the source to be recorded and press \triangleright on the tape deck.
When you record from another component that is connected to this system, start the recording on the tape deck first, and then start playing the connected source.
* When playing a CD, the recording automatically begins a few seconds before the disc play begins.

Displaying the tape counter

During recording, the information of the playing source is displayed in place of the tape counter (①). Press **DISPLAY** to change the display to the tape counter. Pressing **DISPLAY** again will restore the previous display mode.



To stop recording temporarily

Press **REC/PAUSE**.

* Press on the tape deck to resume recording.

To stop recording

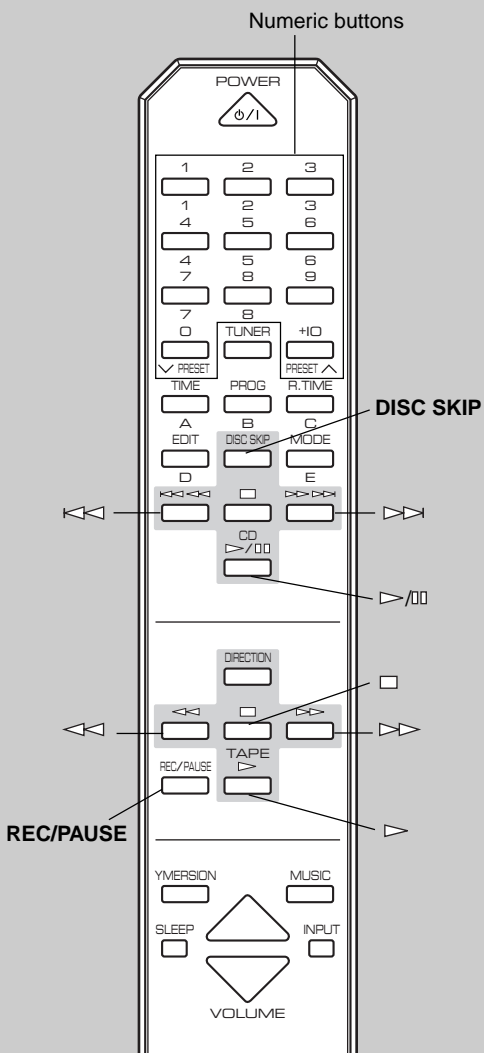
Press on the tape deck.

To change the disc and track when recording from a CD

- 1 Press on the CD player.
* The recording stops temporarily.
- 2 Select the disc by pressing **DISC SKIP** if necessary.
- 3 Choose the track you want to record next by using or .
- 4 Press or on the CD player to resume recording (or simply press the corresponding numeric button(s) on the remote control).

Notes

- A sequence of tracks in the program play mode and random play mode of the CD player can be recorded in the same way.
- During recording, you can rewind the tape to the point where the recording started by simply pressing or .





Recording from CDs utilizing the EDIT function

The EDIT function performs recording on both sides of the tape.

■ EDIT recording

- 1 Press **INPUT** \triangleright or \triangleleft repeatedly until “CD” (①) appears on the display, and load the disc to be recorded.
- 2 Select the disc by pressing **DISC SKIP**.
- 3 Load a tape on the tray with side A facing upward.
- 4 Select “ \rightleftarrows ” (④) by pressing **MODE**.
- 5 Press **R. TIME** on the remote control to select the length of the tape to be used. When pressed, the display changes as shown below.

(off) \rightarrow C-46 \rightarrow C-54 \rightarrow C-60 \rightarrow C-90

When using tapes other than C-46, C-54, C-60 or C-90

After pressing **R. TIME**, input the tape length by using the numeric buttons on the remote control.

- 6 Press **EDIT**. (“EDIT” (⑧) lights up on the display.)

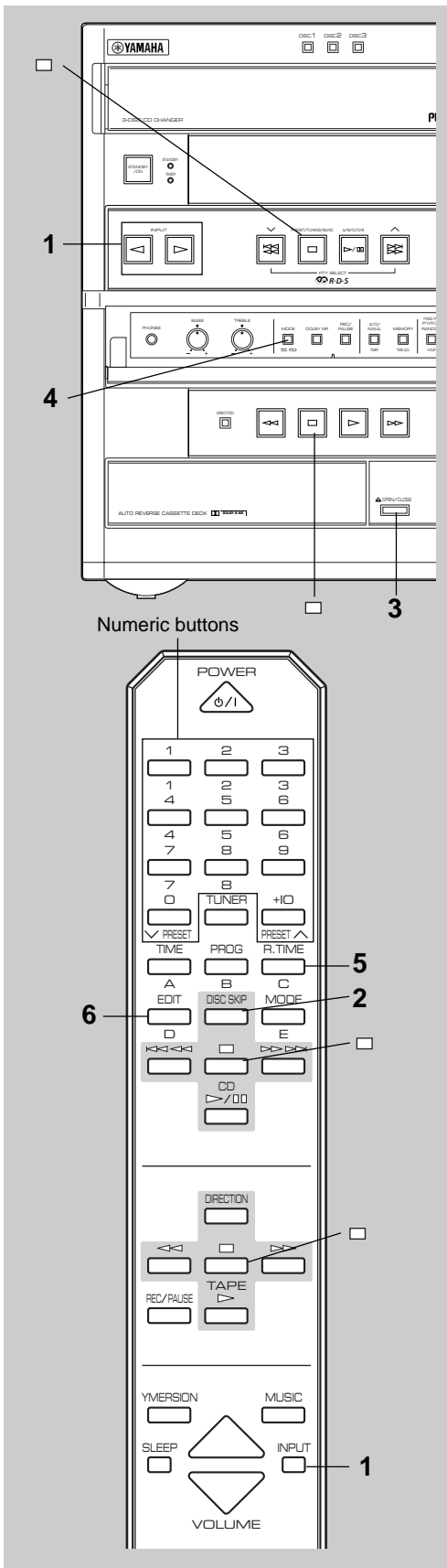
The following operations are carried out automatically.

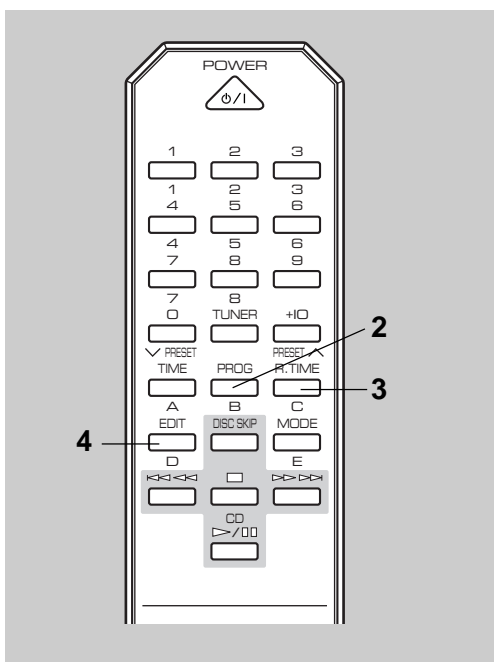
- 1) Tracks on the disc are automatically divided into side A and side B. You can check the process by watching the display.
 - * The tape side indicator (⑨) shows the side currently selected.
- 2) If the tape is not rewound to the end, it will rewind to the end rapidly.
- 3) The end part of the tape on which recording cannot be done is automatically wound.
- 4) Both disc play and recording starts. Recording is continuously carried out on both sides of the tape.

Note

When the CD player is in the all disc play mode, tracks on another disc are recorded continuously if the tape's total possible recording time is longer than the total playing time of the selected disc.

In this case, as many as three discs can be recorded automatically.

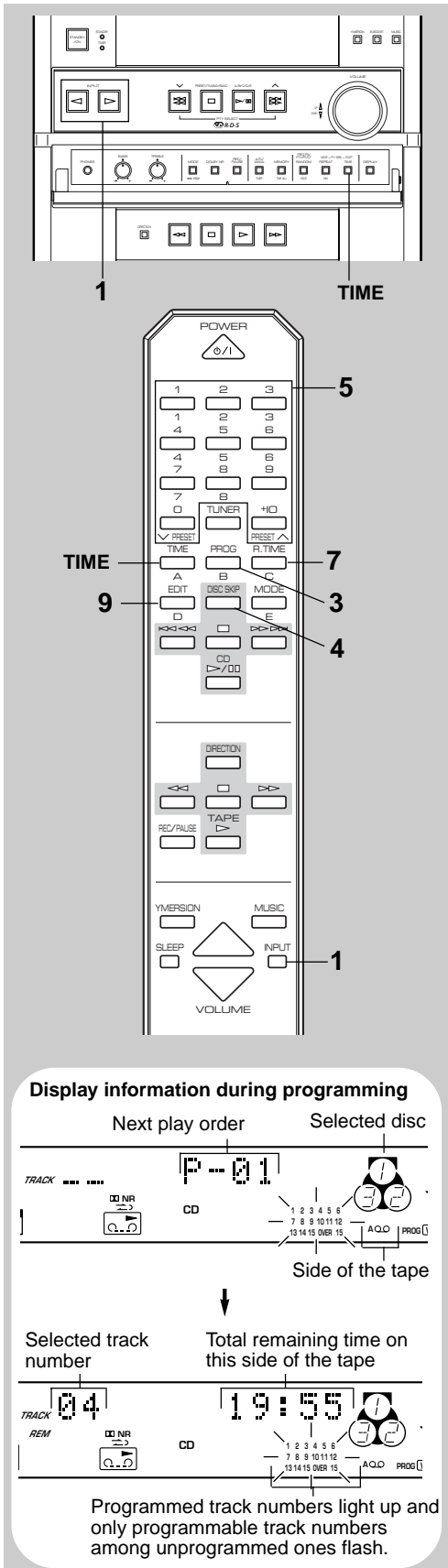




■ Auto-EDIT recording

This recording automatically changes the order of tracks so that the unrecorded space of side A is minimized.

- 1** Follow steps 1–5 on the previous page.
- 2** Press **PROG**.
- 3** Press **R. TIME**.
“Auto A>>>” will light up during programming for side A, and
“Auto B>>>” will light up during programming for side B.
- 4** Press **EDIT**. (“EDIT” (Ⓢ) lights up on the display.)
The recording begins.



Manual EDIT recording

You can program tracks manually while watching the remaining time on both sides of the tape.

- 1 Press **INPUT** \triangleright or \triangleleft repeatedly until “CD” (①) appears on the display, and load a disc (or discs) on the disc tray.
- 2 Follow steps 3–5 on page 29.
- 3 Press **PROG**.
 - * “PROG” and “P-01” will light up on the display, and all track numbers on the selected disc will begin blinking.
- 4 If necessary, select the desired disc by pressing **DISC SKIP**.
- 5 Select the desired track number by pressing the numeric buttons.
- 6 Repeat steps 4 and 5 to program more selections for side A of the tape. You can select the same track again.
 - * Pressing **TIME** displays the total remaining time on side A of the tape for about 1 second, and then it is replaced by the display of the next play order.
 - * You can only select track numbers 1 through 15 for manual EDIT recording. All track numbers higher than 15 i.e. 16, 17, 18... cannot be selected for recording even if there is recordable space available on the tape. “TM OVER” will appear on the display.

At this time, however, if any other track number is flashing continuously on the display, you can program it instead of the unprogrammable one.
- 7 When the programming for side A is finished, press **R. TIME**.
 - * “Side-B” appears on the display. You can begin programming for side B.
 - * After following this step, you can check the programmed contents for side A and side B alternately by pressing **R. TIME** at any time before you press **EDIT** in step 9.
 - * The tape side indicator (⑨) shows the programming side currently selected.
- 8 Repeat steps 4 and 5 to program selections for side B of the tape. You can select the same track again.
- 9 Press **EDIT**. (“EDIT” (⑧) lights up on the display.) The recording begins.

Note

To check, cancel or correct program data, refer to page 13.

To cancel the EDIT function

Before recording, press \square on the CD player or the tape deck.

To stop recording

Press \square on the tape deck.

(At this time, disc play automatically stops.)

Notes on recording with the EDIT function

- The maximum number of tracks that can be programmed is 20.
- The track number 16 or higher cannot be programmed by this function.
- The CD player’s repeat play mode will be canceled during the recording mode.

Operating an external unit connected to this system

Use an external unit connected to the AUX/MD terminals on the rear of the main unit.

■ To listen to a source played on an external unit connected to this system

- 1 Press **INPUT** ▷ or ◁ (or **INPUT** on the remote control) until “AUX/MD” appears on the display.
- 2 Play the source.
- 3 Adjust the volume to the desired level by using **VOLUME**.
* If you prefer, you can control the sound quality (Refer to pages 33–34).

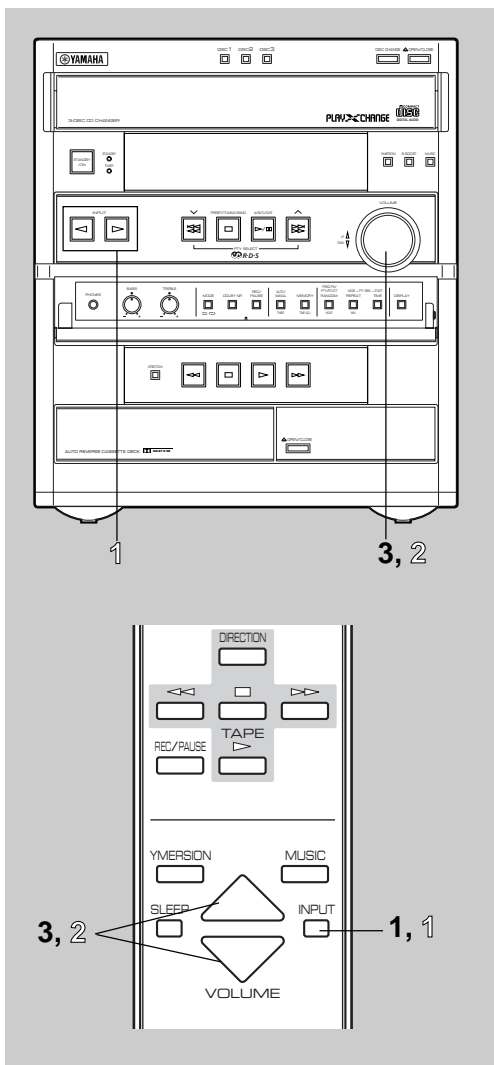
■ To record a source played on this system by using the MD recorder, tape deck etc. connected to this system

You can record a source or a program played on the built-in CD player, tape deck or tuner by the MD recorder, tape deck (DAT), etc. that are connected to the AUX/MD terminals on the rear of the main unit.

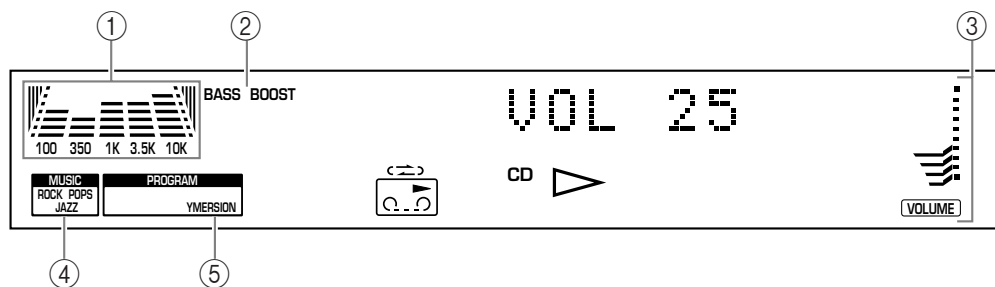
- 1 Select the source (CD, TAPE or TUNER) you want to record by using **INPUT** ▷ or ◁ (or **INPUT** on the remote control).
- 2 Play the source and then turn **VOLUME** up to confirm the input source.
- 3 Begin recording on the MD recorder, tape deck (DAT) etc.

Note

A digital-to-digital recording is possible from a CD played on the built-in CD player to an MD (or tape) on the MD recorder (or DAT) by connecting the DIGITAL OUT (OPTICAL) terminal on the rear of the main unit to the MD recorder (or DAT).



Various sound control



① Spectrum analyzer

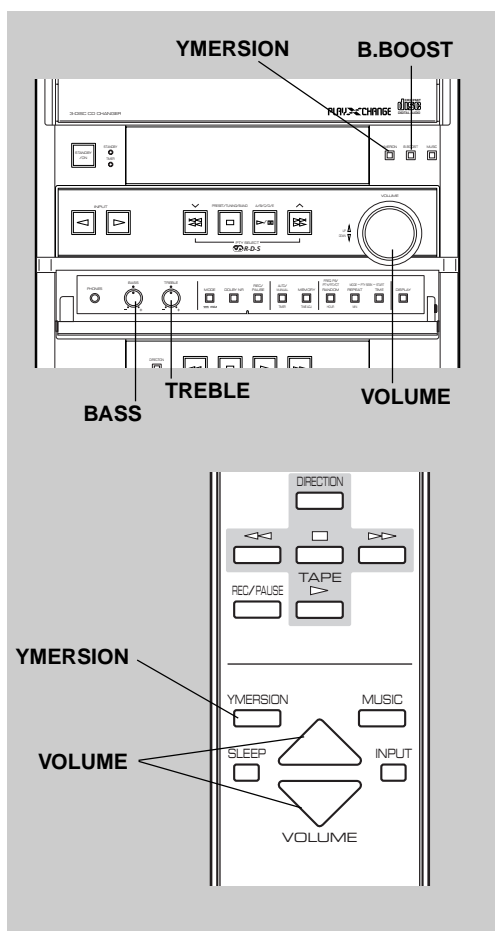
The spectrum of the input source which is divided into five bands will be indicated in real time.

② BASS BOOST

③ VOLUME (volume level meter)

④ MUSIC (preset equalizer mode indicator)

⑤ YMERSION



General sound control

■ VOLUME control

Front panel operation

Rotate **VOLUME** in the “UP Δ ” direction to increase the volume, and the “DOWN ∇ ” direction to decrease the volume.

Remote control operation

Press **VOLUME Δ** to increase the volume and **VOLUME ∇** to decrease the volume.

* Adjusted volume level is shown by the volume level meter (③) and in figures on the display.

■ B. (BASS) BOOST button

Press this button so that “BASS BOOST” (②) is illuminated on the display to boost the bass frequency response of this system while maintaining overall tonal balance. This function is effective for reinforcing the bass frequencies when a subwoofer is not used.

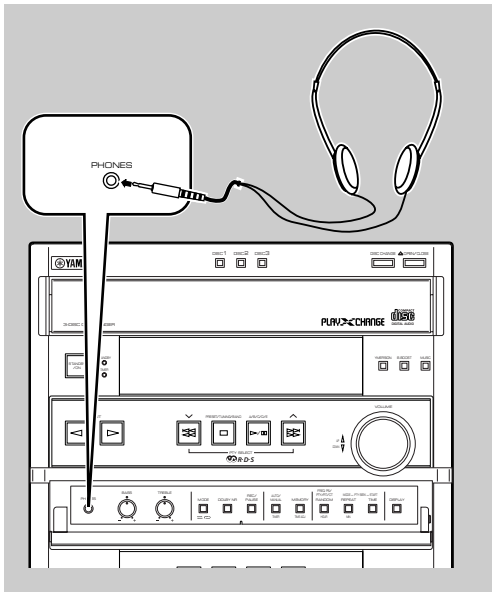
■ BASS and TREBLE controls

BASS : Turn this knob clockwise to increase (or counterclockwise to decrease) the low frequency response.

TREBLE : Turn this knob clockwise to increase (or counterclockwise to decrease) the high frequency response.

■ YMERSION button

Press this button so that “YMERSION” (⑤) lights up on the display. YMERSION is Yamaha's proprietary technology that enhances the spread of a normal stereo source play sound, creating three-dimensional acoustics using only two speakers. Press this button again to cancel this sound effect, and “YMERSION” (⑤) goes out from the display .

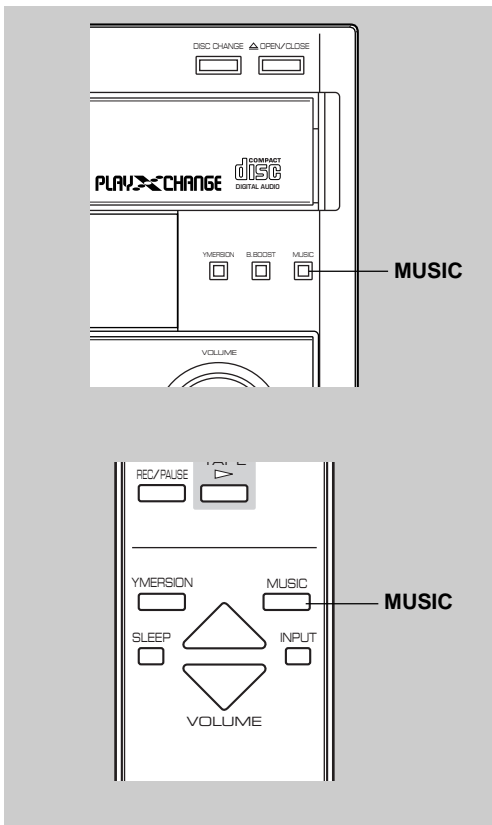


■ Listening with headphones

- Be sure that your headphones have a 3.5 mm (1/8") diameter plug and between 16 ohms and 50 ohms impedance. Recommended impedance is 32 ohms.
- When you listen with headphones, connect the headphones to the **PHONES** jack. You can listen to the sound that is normally outputted from the speakers through headphones. Adjust **VOLUME** to a comfortable listening level.

Note

When you connect headphones, no signals are outputted to the speakers.



Graphic equalizer

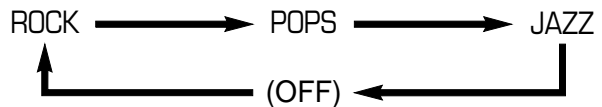
The built-in graphic equalizer provides 3 preset equalizer modes as listed below.

Preset graphic equalizer modes

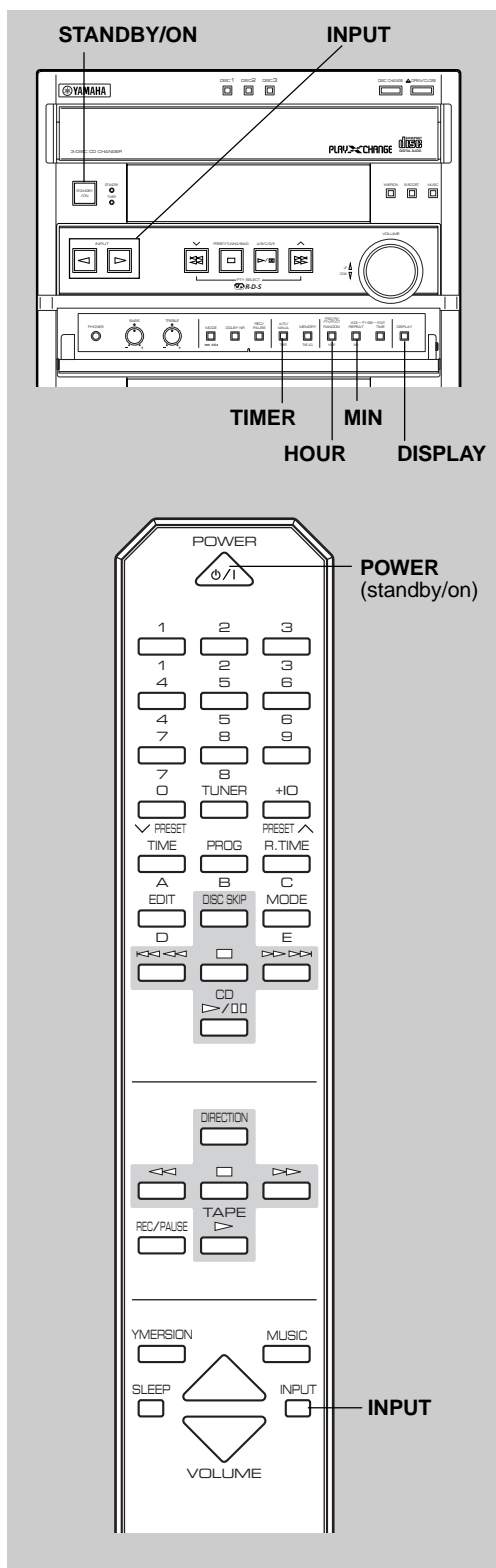
Mode	Feature
ROCK	High and low frequencies are emphasized. This mode is suitable for reproducing dynamic and powerful sounds of rock music, etc.
POPS	Vocals are emphasized and whole sound is clear. This mode is suitable for pops.
JAZZ	High frequencies for piano, sax, etc. are emphasized. Medium frequencies for vocals are also moderately emphasized.

Listening to the music with a preset equalizer effect

- 1 Play back a source.
- 2 Press **MUSIC** repeatedly until the name of the desired mode lights up on the preset equalizer mode indicator (**MUSIC**) (④).



Using the built-in timer



Timer play

By using the built-in timer, you can set the time when this system turns on and a source play begins, and the time when this system is set to the standby mode.

1 Press **DISPLAY**.

Whenever **DISPLAY** is pressed, the display mode changes as follows.

- 1 Current time (TIMER on/off mode)
- ↓
- 2 Source selecting mode (TAPE, TUNER, CD)
- ↓
- 3 ON TIME/Time setting mode
- ↓
- 4 OFF TIME/Time setting mode
- ↓
- 5 Normal display mode

Note

The display mode will change in about 8 seconds. If the mode is changed before the setting is completed, call the mode again by pressing **DISPLAY** once or more.

1 Current time

Make sure that the current time is correct, and press **TIMER** so that “TIMER” lights up on the display.

2 Source selecting mode

Select the source to be played with **INPUT** \triangleright or \triangleleft (or **INPUT** on the remote control).

3 ON TIME/time setting mode

[“ON TIME” appears on the display, and soon it is changed to a time setting mode.]

Set the time when you want to begin the timer play.

- Press **HOUR** and set the hour.
- Press **MIN** and set the minute.

4 OFF TIME/time setting mode

If necessary, set the time when you want to finish the timer play in the same way as you did in step [3]. If you do not set the time, it will be automatically set so that the timer play finishes after 1 hour.

2 Press **TIMER** to complete the timer play setting.

This system turns into the standby mode.

* The **STANDBY** and **TIMER** indicators light up.

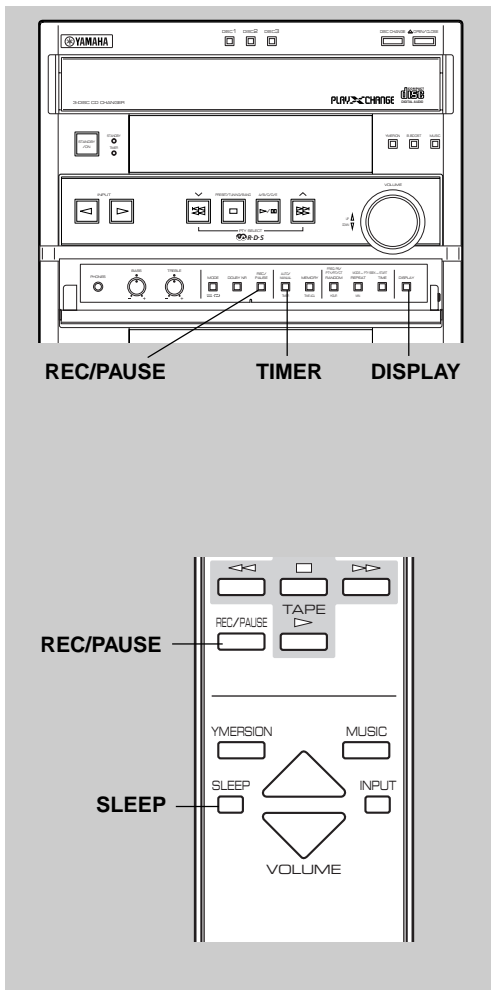
If you will continue using this system, press **STANDBY/ON** to turn on this system.

To cancel the timer play setting

Press **DISPLAY**, and then press **TIMER** so that the **TIMER** indicator goes out.

Note

Unless there is a power failure for more than 5 minutes, the set time will be retained until it is reset.



Timer recording

- 1 Follow steps 2–3 of “Basic recording” on page 27.
- 2 Tune in to the station you want to record.
- 3 Follow step 1 of “Timer play” on page 35.
 - * In step 2, select “TUNER”, and then press **REC/PAUSE**. (“REC >TAPE” and the frequency will flash alternately on the display.)
 - * In step 3, set the time when you want to begin recording.
 - * In step 4, set the time when you want to finish recording.
- 4 Press **TIMER**.
 - This system will be set to the standby mode.
 - * The **STANDBY** and **TIMER** indicators light up.

To cancel the setting of timer recording

Press **DISPLAY** once or more so that “REC >TAPE” flashes on the display. While “REC >TAPE” is flashing, press **REC/PAUSE**.

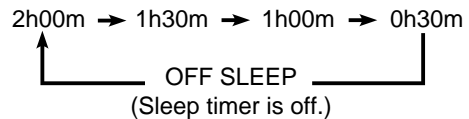
Note

When the timer recording is finished, the timer setting is automatically canceled.

Sleep timer operation

This system will automatically be set to the standby mode when the selected sleep time passes.

- 1 Play the desired sound source.
- 2 Press **SLEEP** repeatedly until the desired sleep time appears on the display. The display will change as described below.



- * The normal display mode will resume about 4 seconds after the selection is made.
- * “SLEEP” will light up on the display.

Troubleshooting

Refer to the chart below when this system does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, disconnect the supply lead and contact your authorized YAMAHA dealer or service center.

	Problem	Cause	What to Do
General	This system does not work normally.	There is an influence of strong external noise (lightning, excessive static electricity, etc.) or the system was operated incorrectly.	Set this system to the standby mode and disconnect the AC supply lead from the AC outlet. After about 30 seconds, connect the power and operate this system again.
	The sound suddenly goes off.	The protection circuit was activated because of a short circuit, etc.	Set this system to the standby mode, then turn on to reset the protection circuit.
		The SLEEP timer was activated.	Cancel the SLEEP timer function.
	No sound from speakers.	Speaker connections are not secure.	Secure the connections.
	No sound from the external unit connected to this system.	Incorrect cord connections.	Connect the cords properly. If the problem persists, the cords may be defective.
		Input source selection is not correct.	Make a correct input source selection.
	Timer cannot be set.	Current time is not set.	Set current time.
	This system will not operate properly.	The internal microcomputer has been frozen by an external electric shock (lightning, excessive static electricity, etc.) or power supply with low voltage.	Unplug the AC supply lead from the wall AC outlet, then plug in again after about one minute.
The volume level cannot be increased, or sound is distorted.	The component connected to the AUX/MD terminals on the rear of the main unit is turned off.	Turn on the power to the component.	
Tuner	Excessive static in FM broadcasts.	Interference from starting motor of nearby car.	Position the FM antenna as high and as far away from nearby roads as possible. Use coaxial cable.
		Interference from thermostat of nearby electric appliance.	
	Noise increases during stereo broadcasts.	Antenna input is too weak due to obstructions or excessive distance from broadcasting station.	Check antenna connections. Install a multi-element type FM antenna if possible.
	Stereo broadcasts are noisy and STEREO indicator blinks on and off.	Insufficient antenna input.	Install an antenna suited for the electric field strength of your area.
	Preset stations cannot be selected.	Preset memory has been erased.	Reprogram memory presets.
	Buzzing or static during AM broadcasts.	Interference from sources such as lightning, fluorescent lights, electric motors or thermostat of nearby electric appliance.	Problem is difficult to eliminate but can be lessened by grounding AM loop antenna.
		TV or this system is being used nearby.	Move away from TV or this system.
	AM broadcast sensitivity is poor.	Radio signal is weak or antenna is not properly connected.	Properly connect AM loop antenna.
Change orientation of AM loop antenna.			
Install an external AM antenna.			

	Problem	Cause	What to Do
CD player	A disc cannot be played normally, or there is a noise during play.	The disc is not a standard type.	Play another disc.
	Play will not begin even if disc is loaded.	Disc is upside down.	Load disc with label side facing upward.
		Disc is dirty.	Clean disc.
	No sound.	The input source selection is incorrect.	Select the CD player by pressing INPUT ◀ or ▶ button until "CD" lights up on the display.
Sound stops suddenly (always at the same spot).	Disc is dirty.	Clean disc.	
	Volume is set too high.	Lower volume.	
Tape deck	Tape will not move during playback or recording.	Slack tape wrapped around pinch roller.	Tighten slack with a pencil (pen) before using.
	Recording is not possible.	Erasure prevention tab is broken off.	Replace tape or cover erasure prevention hole with adhesive tape.
		Head is dirty.	Clean heads.
	Sound is distorted or fades out, or stereo balance is poor.	Head is dirty.	Clean heads.
		Tape is worn.	Replace tape.
	Poor sound quality.	Tape encoded with Dolby NR is played back with this system's Dolby NR off.	Press the DOLBY NR button to turn it on.
		Tape not encoded with Dolby NR is played back with this system's Dolby NR on.	Press the DOLBY NR button to turn it off.
	Excessive noise.	Head has become magnetized.	Demagnetize heads with head demagnetizer.
	Tape travel stops in middle of playback or recording.	Slack tape coming out of cassette shell.	Tighten slack with a pencil (pen) before using.
		Tape is creased or torn.	Replace tape.
Endless tape is being used.		Do not use endless tapes.	
The beginning of desired selections on tape cannot be found.	Silent gaps between selections are too short.	The function of searching for the beginning of desired selections will not operate unless the silent gaps between selections are at least four seconds long.	
	Excessively soft passages in middle of selections.		
	Conversation, etc. is recorded.		
Beginning of the track isn't recorded.	There is an unrecordable part in the first few seconds of the tape.	Wind the unrecordable part of the tape and start recording from the recordable part.	
Remote control	Remote control does not work.	Batteries are dead.	Replace batteries.
		Remote control is too far away or tilted too much.	Use within 6 m and 60° radius.
		Direct sunlight or lighting (of an inverter type fluorescent lamp, etc.) is striking the remote control sensor of the main unit.	Reposition the main unit.
	TV functions strangely when the remote control is used.	Remote control is being used near TV set with a remote control sensor.	Relocate the main unit away from the TV.

Specifications

■ Amplifier section

Minimum RMS Output Power per Channel 6 ohm, 1 kHz, 0.9% THD	80W+80W
Input Sensitivity/Impedance AUX/MD	200 mV/47 k-ohm
Spectrum Analyzer Band	5 bands (100 Hz, 350 Hz, 1 kHz, 3.5 kHz, 10 kHz)

■ Tuner section

Tuning Range	
FM	87.50 to 108.00 MHz
AM	531 to 1,611 kHz
Usable Sensitivity (FM)	
DIN, Mono, S/N 26 dB	1.8 μ V
S/N 30 dB, 1 kHz, 100% Mod.	1.5 μ V

■ CD player section

Discs Supported	Audio CD
Type	3 disc carousel auto-changer
D/A Converter	1-bit DAC
Filter	8-time oversampling digital filter

Laser Diode Properties

Material	GaAlAs
Wavelength	784 nm
Emission Duration	continuous
Laser Output	max. 45.5 μ W

■ Tape deck section

Type	Auto reverse stereo cassette deck
Frequency Response (-20 dB)	
Type 1 (Normal)	50 to 15,000 Hz
Type 2 (High)	50 to 16,000 Hz
Wow and Flutter	0.09%, W.RMS
Signal-to-Noise Ratio	58 dB (Dolby NR OFF) 66 dB (Dolby B NR ON)
Harmonic Distortion	0.8%

■ Speaker section

Type (Magnetic shielding type)	
Speaker	3-way bass reflex: 13 cm (5") woofer 5 cm (2") tweeter 2 cm (3/4") super tweeter
Maximum input	220W
Impedance	6 ohm

■ General

Power Supply	AC 230V, 50 Hz
Power consumption	140W
Dimensions (W x H x D)	
Main unit	280 x 320 x 364 mm
Speaker	200 x 320 x 208 mm
Weight	
Main unit	10.5 kg
Speaker	3.8 kg x 2
Accessories	Remote control Batteries Speaker cords AM loop antenna Indoor FM antenna

Specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

L'emploi de commandes, de réglages ou un choix de procédures différents des spécifications de cette brochure peut entraîner une exposition à d'éventuelles radiations pouvant être dangereuses.

ACHTUNG

Die Verwendung von Bedienungselementen oder Einstellungen oder die Durchführung von Bedienungsvorgängen, die nicht in dieser Anleitung aufgeführt sind, kann zu einem Kontakt mit gefährlichen Laserstrahlen führen.

OBSERVERA

Användning av kontroller och justeringar eller genomförande av procedurer andra än de som specificeras i denna bok kan resultera i att du utsätter dig för farlig strålning.

ATTENZIONE

Uso di controlli o regolazioni o procedure non specificamente descritte può causare l'esposizione a radiazioni di livello pericoloso.

PRECAUCIÓN

El uso de los controles o los procedimientos de ajuste o utilización diferentes de los especificados en este manual pueden causar una exposición peligrosa a la radiación.

VOORZICHTIG

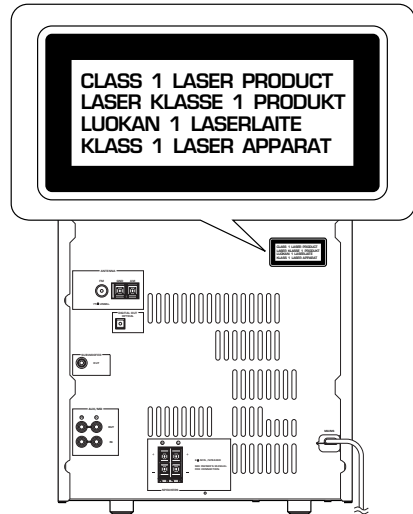
Gebruik van bedieningsorganen of instellingen, of uitvoeren van handelingen anders dan staan beschreven in deze handleiding kunnen leiden tot blootstelling aan gevaarlijke stralen.

VARO!

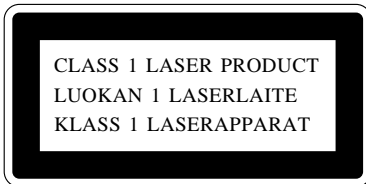
AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

WARNING!

OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.



Klassmärkning för Finland



Varningsanvisning för laserstrålning. Placerad i apparaten.

