

Compact Disc Player

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Note

The supplied CD-ROM includes operating instructions for the CD player (English, Japanese, French, German, Italian, Spanish, and Chinese versions). For details, see “Using the CD-ROM Manual” on page 12.



CDP-D12

Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. CDP-D12

Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To prevent fire, do not cover the ventilation of the apparatus with newspapers, tablecloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.

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

CAUTION

To prevent electric shock, match wide blade of plug to wide slot, fully inserted.



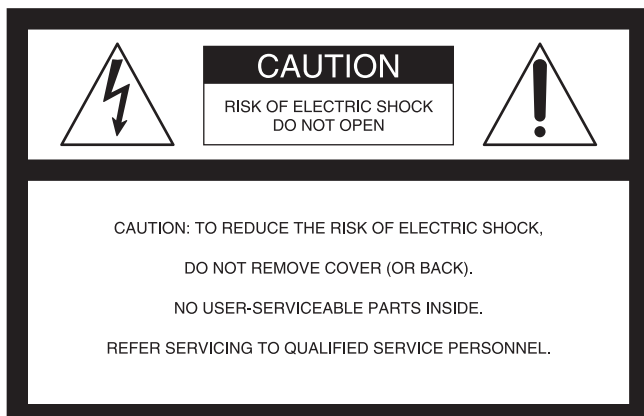
This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safety Instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 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.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.



For the customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

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

For the customers in the U.S.A. and Canada

Caution

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



This label is located on the top exterior.

Laser diode properties

Wavelength: 780 nm
Emission duration: Continuous
Laser output power: 30 mW (max.)

For the customers in Canada

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

For the customers in Europe

This product with the CE marking complies with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European standards:

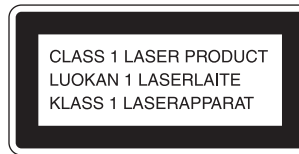
- EN60065: Product Safety
- EN55103-1: Electromagnetic Interference (Emission)
- EN55103-2: Electromagnetic Susceptibility (Immunity)

This product is intended for use in the following Electromagnetic Environment(s):

E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors), and E4 (controlled EMC environment, ex. TV studio).

Caution

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

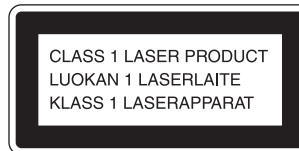


The CDP-D12 is classified as a CLASS 1 LASER PRODUCT. The CLASS 1 LASER PRODUCT label is located on the top exterior.

CAUTION — CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

Laser diode properties

Class 1M
IEC60825-1:1993+A1:1997+A2:2001
EN60825-1:1994+A11:1996+A2:2001
Wavelength: 780 nm
Emission duration: Continuous
Laser output power: 30 mW (max.)



CDP-D12 er klassifisert som LASERPRODUKT KLASSE 1. Klassemerkingen for KLASSE 1 er plassert utvendig på oversiden.

ADVARSEL — USYNLIG LASERSTRÅLING KLASSE 1M HVIS ÅPEN. IKKE SE DIREKTE MED OPTISKE INSTRUMENTER.

Spesifikasjoner laserdiode

Klasse 1M
IEC60825-1:1993+A1:1997+A2:2001
EN60825-1:1994+A11:1996+A2:2001
Bølgelengde: 780 nm
Strålingens varighet: Kontinuerlig
Laserens effekt: 30 mW (maks.)

WAARSCHUWING

Stel dit apparaat niet bloot aan regen of vocht, om brandgevaar of elektrische schokken te voorkomen.

Om brand te voorkomen, mogen de ventilatieopeningen van het apparaat niet worden afgedekt door kranten, tafelkleden, gordijnen, enz. Zet ook geen brandende kaarsen op het apparaat.

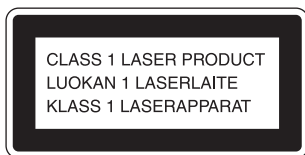
Om gevaar van brand of elektrische schok te voorkomen, mogen er geen met water gevulde voorwerpen zoals vazen op het apparaat worden geplaatst.

Het apparaat blijft op de stroombron (netspanning) aangesloten zolang de stekker in het stopcontact zit, zelfs indien het apparaat zelf is uitgeschakeld.

Open niet de behuizing, om gevaar van elektrische schokken te vermijden. Laat reparaties aan de erkende vakhandel over.



Gooi de batterij niet weg, maar lever hem in als KCA.



De CDP-D12 is geclassificeerd als een KLASSE 1 LASERPRODUCT. Het KLASSE 1 LASERPRODUCT label bevindt zich op de bovenkant.

LET OP — KLASSE 1M ONZICHTBARE LASERSTRALING INDIEN GEOPEND.
NIET RECHTSTREEKS MET OPTISCHE INSTRUMENTEN IN DE STRAAL KIJKEN.

Eigenschappen van de laserdiode

Klasse 1M
IEC60825-1:1993+A1:1997+A2:2001
EN60825-1:1994+A11:1996+A2:2001
Golflengte: 780 nm
Emissieduur: Continu
Laser-uitgangsvermogen: 30 mW (max.)

ADVERTÊNCIA

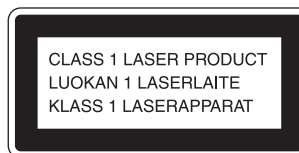
Para evitar o risco de incêndio ou choque eléctrico, não exponha o aparelho à chuva nem à humidade.

Para evitar incêndio, não cubra as ventilações do aparelho com jornais, toalhas, cortinas, etc. E não coloque velas acesas sobre aparelho.

Para evitar o risco de incêndio ou choque eléctrico, não coloque objectos cheios de líquidos, tal como vasos em cima do aparelho.

O aparelho não estará desligado da corrente CA (rede) enquanto o cabo de alimentação estiver ligado a uma tomada de rede, mesmo que o aparelho tenha sido desligado.

Para evitar descargas eléctricas, não abra o aparelho. Peça assistência somente a técnicos especializados.



O CDP-D12 é classificado como "CLASS 1 LASER PRODUCT" (produto com laser da classe 1). A etiqueta "CLASS 1 LASER PRODUCT" encontra-se na parte superior externa do aparelho.

PERIGO — EXPOSIÇÃO A RADIAÇÃO LASER INVISÍVEL DA CLASSE 1M QUANDO ABERTO.
NÃO OBSERVE DIRECTAMENTE O LASER COM INSTRUMENTOS ÓPTICOS.

Propriedades do diodo laser

Classe 1M
IEC60825-1:1993+A1:1997+A2:2001
EN60825-1:1994+A11:1996+A2:2001
Comprimento de onda: 780 nm
Duração da emissão: Contínua
Potência do laser: 30 mW (máx.)

VARNING

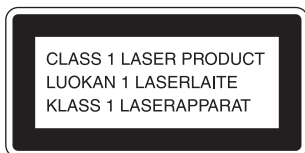
Utsätt inte apparaten för regn eller fukt. Det medför risk för brand eller elektriska stötar.

Se till att apparatens ventilationshål inte är förtäckta av tidningar, dukar, gardiner eller liknande. Det medför risk för brand. Ställ heller aldrig tända stearinljus ovanpå apparaten.

Ställ aldrig vätskefyllda behållare som t.ex. blomvaser ovanpå apparaten, eftersom det medför risk för brand eller elstötar.

Anläggningen är strömförande så länge stickkontakten sitter i ett vägguttag, även om strömbrytaren på själva anläggningen är frånslagen.

Öppna inte höljet. Det kan resultera i risk för elektriska stötar. Överlåt allt reparations- och underhållsarbete till fackkunniga tekniker.



CDP-D12 är klassificerad som en KLASS 1 LASERPRODUKT. Etiketten KLASS 1 LASERPRODUKT finns på apparatens ovansida.

VARNING — OSYNLIG LASERSTRÅLNING AV KLASS 1M I ÖPPET LÄGE.
BETRAKTA EJ STRÅLEN DIREKT MED OPTISKA INSTRUMENT.

Tekniska data för laserdiod

Klass 1M
IEC60825-1:1993+A1:1997+A2:2001
EN60825-1:1994+A11:1996+A2:2001
Våglängd: 780 nm
Emissionslängd: Kontinuerlig
Laserut effekt: 30 mW (max.)

ADVARSEL

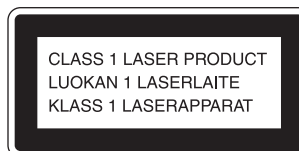
For at undgå faren for brand eller elektrisk stød må apparatet ikke udsættes for regn eller fugt.

For at undgå brand må apparatets ventilation aldrig blokeres af aviser, duge, gardiner eller lignende. Og anbring aldrig tændte, levende lys på apparatet.

For at forebygge brand og fare for elektrisk stød må der aldrig anbringes genstande indeholdende væske, eksempelvis vaser, på apparatet.

Netspændingen til dette apparat er ikke afbrudt, så længe netledningen sidder i en stikkontakt, som er tændt, også selv om der er slukket på apparatets netafbryder.

Åbn ikke kabinettet, da der er risiko for elektriske stød. Overlad alle reparationer til kvalificeret servicepersonale.



CDP-D12 er klassificeret som et LASERPRODUKT AF KLASSE 1. CLASS 1 LASER PRODUCT-mærkaten sidder øverst på apparatets yderside.

FORSIGTIG — KLASSE 1M USYNLIG LASERSTRÅLNING HVIS ÅBEN.
BETRAGT IKKE DIREKTE GENNEM OPTISKE INSTRUMENTER.

Laserdiode-egenskaber

Klasse 1M
IEC60825-1:1993+A1:1997+A2:2001
EN60825-1:1994+A11:1996+A2:2001
Bølgelængde: 780 nm
Strålingsvarighed: Uafbrudt
Laserudgangseffekt: 30 mW (max.)

VAROITUS

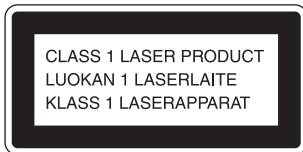
Suojaa laite sateelta ja kosteudelta sähköisku- ja tulipalovaaran vuoksi.

Älä peitä laitteen ilma-aukkoja sanomalehdillä, pöytäliinoilla, verhoilla tms. estääksesi tulipalon. Älä sijoita palavia kynttilöitä laitteen päälle.

Älä aseta nestettä sisältäviä esineitä, kuten maljakoita, laitteen päälle tulipalo- ja sähköiskuvaaran vuoksi.

Järjestelmä on kytkettynä verkkovirtaan aina, kun se on liitettyä pistorasiaan, vaikka virta olisi katkaistu laitteen virtakytkimellä.

Sähköiskun välttämiseksi ei koteloaa saa avata. Anna vain asiantuntijan suorittaa huolto.



CDP-D12 on luokiteltu LUOKAN 1 LASERLAITTEEKSI. LUOKAN 1 LASERLAITE -tarra sijaitsee laitteen yläpinnalla.

HUOMATUS — LUOKAN 1M NÄKYMÄTÖN LASERSÄTEILYÄ LAITTEEN OLLESSA AUKI. ÄLÄ KATSO SUORAAN OPTISIN LAITTEIN.

Laserdiodin ominaisuudet

Luokka 1M

IEC60825-1:1993+A1:1997+A2:2001

EN60825-1:1994+A11:1996+A2:2001

Aallon pituus: 780 nm

Välityksen kesto: Jatkuva

Laserlähdön teho: 30 mW (maks.)

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Overview

The CDP-D12 is a compact-size CD player with a variety of playback functions that are useful for audio-visual presentations or sound effects in theaters, etc.

The features of the CDP-D12 are as follows:

Compact design

The CDP-D12 has a height of 1U, allowing it to be mounted in a standard EIA 19-inch rack.

Flexible output interfaces

Two types of analog audio connectors (balanced XLR-type connectors and unbalanced phono connectors) are provided, as well as coaxial and optical digital outputs.

Various remote control configurations

Remote control functions are provided via RS-232C, parallel, and CTRL-S connectors. The supplied remote control unit can be used as both a wired remote and wireless IR remote.

CD-R/RW

The CDP-D12 can play CD-R and CD-RW discs, as well as commercially sold CDs.

Variable-speed playback

The ability to vary the playback speed within a range of $\pm 12.5\%$ in 0.5% intervals makes it easy to adjust the playing time.

Mark & Locate function

Through simple operations, any point on the CD can be marked and then located.

Auto Pause and Auto Cue functions

The Auto Pause function pauses playback after each track, while the Auto Cue function locates the point where the audio content begins and pauses at that point.

RELAY IN/OUT connectors

Sequential playback is possible over multiple CDP-D12 units linked by the RELAY IN/OUT connectors.

Precautions

Notes on use

- The CDP-D12 must be used within a temperature range of 0°C to 40°C (32°F to 104°F).
- Installing the CDP-D12 in a hot place or in a place exposed to direct sunlight may cause it to malfunction or the color finish to fade. Do not place the CDP-D12 near a heat source such as lighting equipment or a power amplifier.
- After using the CDP-D12 in a place that is moist, dusty place, or exposed to activated gas, clean the surface and the connectors as soon as possible. If you do not, or if the CDP-D12 is kept in such a place, the service life of the player may be shortened.
- Clean the surface and the connectors of the CDP-D12 with a dry, soft cloth. Never use thinner, benzene, alcohol or any other chemicals, since these may mar the finish.

Installation

Do not place the CDP-D12 in the following places:

- On an unstable place or uneven surface
- On a carpet or mattress
- Humid or poorly ventilated places
- Dusty places
- Under direct sunlight or where the temperature is high
- Where the temperature is very low
- Near a tuner, TV set, or video deck
(When using the CDP-D12 with the above equipment, the close proximity of the CDP-D12 may cause noise or distortion in audio or visual signals, especially in the case of equipment that use an interior antenna. In this case, it is recommended that an outdoor antenna be used instead.)

Note on adjusting the volume

Compact discs contain less noise than normal records. If you adjust the volume as you listen to the sound between tracks, as you might do with normal records, an unexpectedly high volume may be output, damaging the speakers. Be sure to turn down the volume before the start of playback.

On condensation in the player

If the player is brought directly from a cold place to a warm location, or is placed in a very damp room, moisture may condense inside the player.

Moisture may condense inside the player when the temperature suddenly rises, such as when a heater is turned on. In this event, the player may not operate properly, and damage may even occur to the CD or player mechanism. If there is condensation, remove the CD and leave the player turned on for about an hour until the moisture evaporates. If the player does not operate normally even after a few hours, consult Sony service personnel.

On cleaning

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

On carrying the player

Always remove the CD before transporting the player.

After inserting the CD

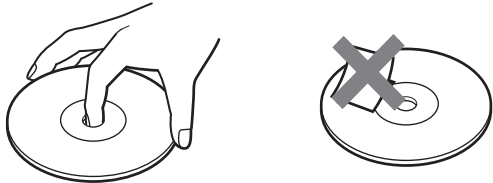
A beep or mechanical noise may be heard. This is caused by the automatic adjustment of the servomechanism inside the player. A noise may also be heard if the inserted CD is warped, due to an automatic adjustment function.

Precautions

Handling CDs

Handling

- When holding the CD, do not touch the recorded side (the side without the label).
- Do not attach any paper or seals onto the CD.



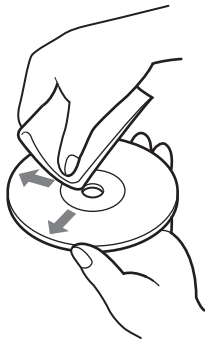
- The CDP-D12 can play round CDs only. Playing irregularly shaped CDs such as star-shaped or heart-shaped CDs may damage the player.
- Do not use CDs on which labels or stickers have been attached, for example by second-hand CD or CD rental shops.

Preservation

- Do not leave CDs in a place subject to high temperature or high humidity, especially places exposed to direct sunlight.
- Store CDs in their case. CDs that are piled or stacked without cases may become deformed.

Cleaning

- Fingerprints or dust will affect the quality of the sound. Keep CDs clean.
- When cleaning a CD, wipe it with a soft cloth from the center outward.



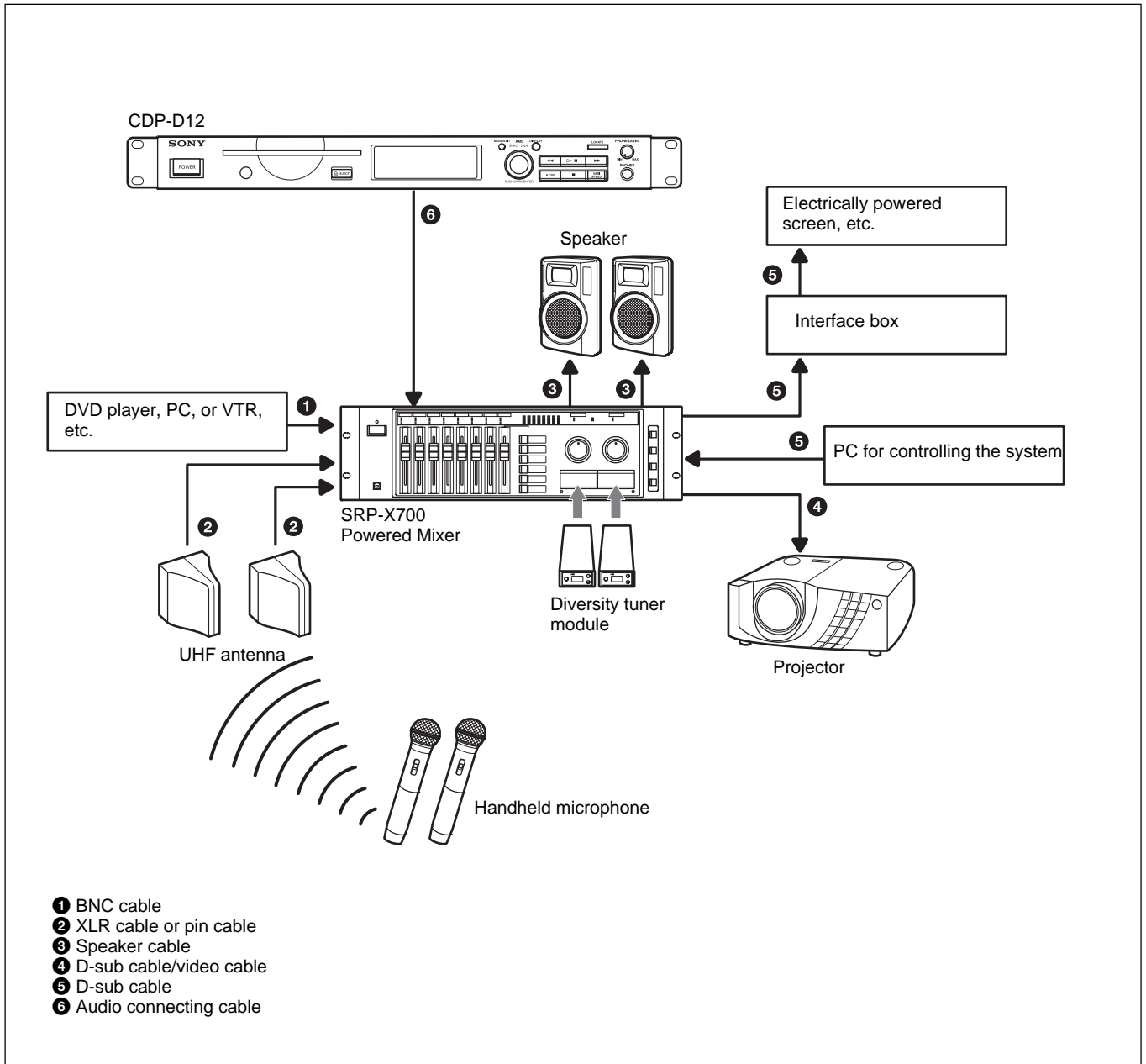
- If the CD is extremely dirty, wipe it with a soft cloth lightly moistened with water, and then finish with a dry cloth.
- Do not use solvents such as benzene, record cleaner, or anti-static spray intended for vinyl LPs.

Notes on CD-R/CD-RW playback

Discs recorded on a CD-R/CD-RW drive may not play back due to scratches, dirt, recording conditions, or properties of the drive. In addition, discs for which the recording process was not finalized cannot be played back.

System Configuration

Sample configuration for AV presentations is given below.



Using the CD-ROM Manual

The supplied CD-ROM contains operating instructions for the CDP-D12 (in English, Japanese, French, German, Italian, Spanish, and Chinese).

CD-ROM system requirements

The following are required to access the supplied CD-ROM disc.

- Computer: PC with MMX Pentium 166 MHz or faster CPU, or Macintosh computer with Power PC CPU
 - Installed memory: 64 MB or more
 - CD-ROM drive: ×8 or faster
- Monitor: Monitor supporting a resolution of 800 × 600 or higher

When these requirements are not met, access to the CD-ROM disc may be slow, or not possible at all.

Preparations

The following software must be installed on your computer in order to use the documents contained in the CD-ROM disc.

- Microsoft Internet Explorer Version 4.0 or higher or Netscape Navigator Version 4.0 or higher
- Adobe Acrobat Reader Version 4.0 or higher

Notes

- If Microsoft Internet Explorer is not installed, it may be downloaded from the following URL:
<http://www.microsoft.com/ie>
- If Netscape Navigator is not installed, it may be downloaded from the following URL:
<http://home.netscape.com/>
- If Adobe Acrobat Reader is not installed, it may be downloaded from the following URL:
<http://www.adobe.com/products/acrobat/readstep.html>

Reading the CD-ROM manual

To read the operating instructions contained in the CD-ROM disc, do the following.

- 1** Insert the CD-ROM disc in your CD-ROM drive. A cover page appears automatically in your browser.
If it does not appear automatically in the browser, double-click the [index.htm] file on the CD-ROM disc.
- 2** Select and click the operating instructions that you want to read.
A PDF file of the operating instructions opens.

Note

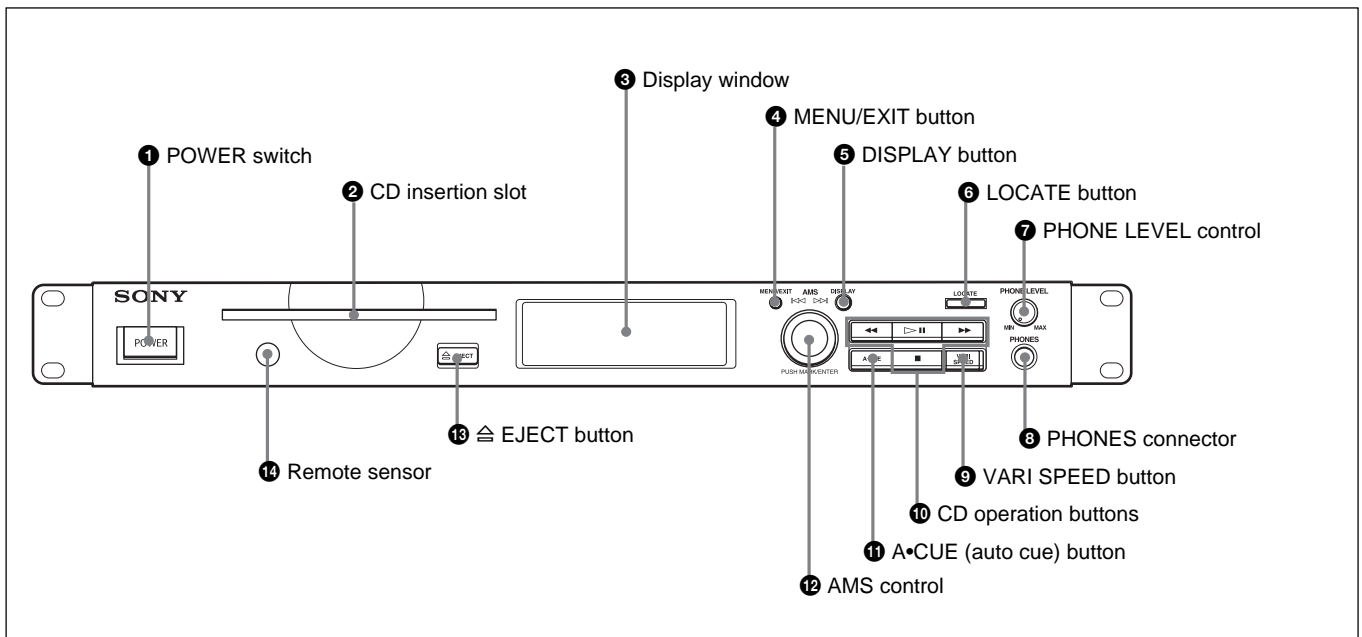
If you lose the CD-ROM disc or become unable to read its content, for example, because of a hardware failure, contact a Sony service representative.

About trademarks

- MMX and Pentium are registered trademarks of Intel Corporation or its subsidiaries in the United States and/or other countries.
- Power PC is a registered trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, Inc.
- Microsoft is a registered trademark of Microsoft Corporation in the United States and/or other countries.
- Netscape Navigator is a registered trademark of netscape Communications Corporation in the United States and/or other countries.
- Adobe and Acrobat are registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Function of Parts and Controls

Front panel



1 POWER switch

Press to turn the player on or off.

2 CD insertion slot

Insert the CD here with its label side up. The CD is automatically pulled in and loaded. 8-cm CDs (single CDs) can be played without an adapter.

3 Display window

Shows information about the inserted CD, such as playing time or remaining playing time of the track or CD.

4 MENU/EXIT button

Press to display menu settings or to cancel a menu operation.

5 DISPLAY button

Press to change the information in the display.

6 LOCATE button

Press to pause at the point set by the Mark function.

7 PHONE LEVEL control

Turn to adjust the volume of headphones connected to the PHONES connector.

8 PHONES connector

Connect headphones here.

9 VARI SPEED (variable speed) button

Used to vary the playback speed of a track.

10 CD operation buttons

◀▶ (search) buttons: Press to locate a specific part within a track.

▷|| (play/pause) button: Press during playback to pause, or during pause to resume playback.

■ (stop) button: Press to stop play.

11 A•CUE (auto cue) button

Press to select Auto Cue, Auto Pause, or normal play.

12 AMS control

Rotate to locate tracks or to select a menu item.

13 EJECT button

Press to eject the CD.

14 Remote sensor

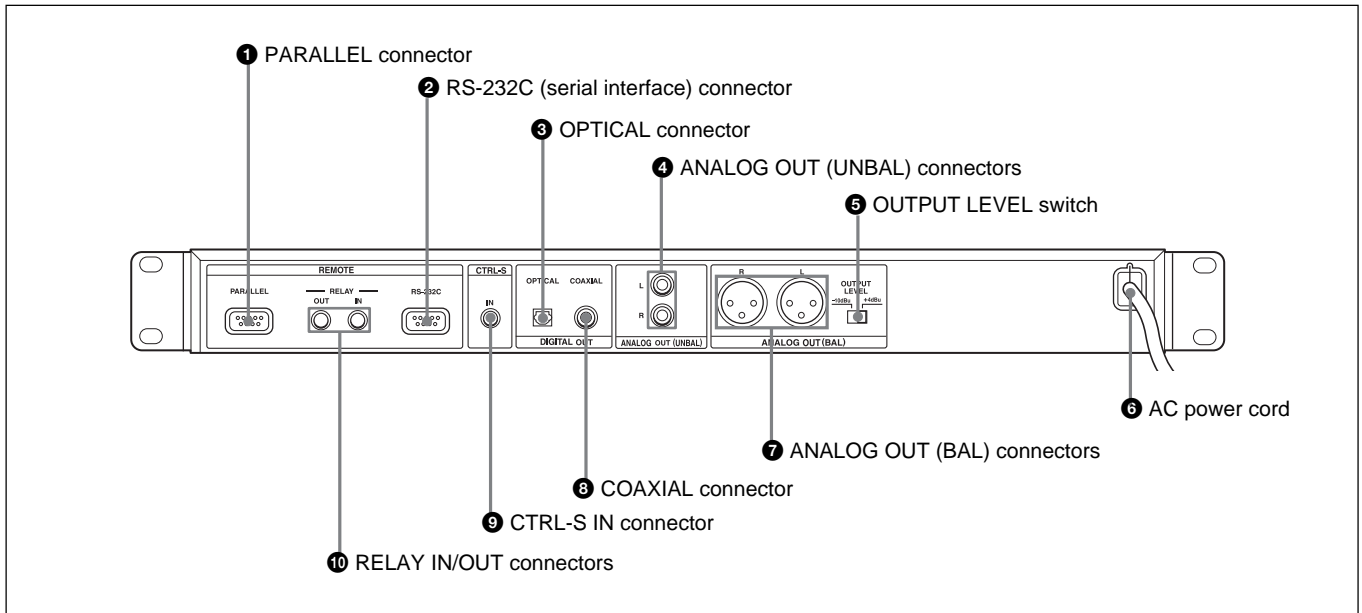
Point the supplied remote control unit towards this area for remote operations.

Note

Keep the remote sensor away from direct sunlight or strong illumination. Strong light may cause the remote control function to fail.

Function of Parts and Controls

Rear panel



1 PARALLEL connector (D-sub, 9-pin, female)

Connects to external control devices for remote control.

2 RS-232C (serial interface) connector (D-sub, 9-pin, male)

Connects to a PC for remote control.

3 OPTICAL connector

Connects to external digital devices through an optional optical digital connecting cable.

4 ANALOG OUT (UNBAL) connectors (phono jack)

Connects to external devices through an optional audio connecting cable (phono type).

5 OUTPUT LEVEL switch

Selects the output level of the ANALOG OUT (BAL) connectors.

+4 dBu: Outputs digital-20 dB signals at +4 dBu.

-10 dBu: Outputs digital-20 dB signals at -10 dBu.

6 AC power cord

Connects to an AC outlet.

7 ANALOG OUT (BAL) connectors (XLR type, 3-pin)

Connects to external devices through an optional audio connecting cable (XLR type).

8 COAXIAL connector

Connects to an external digital device using an optional coaxial digital connecting cable.

9 CTRL-S IN connector (mini jack)

Use the supplied control S cable for wired remote control to connect this connector to the control S output connector on the front side of the supplied remote control unit.

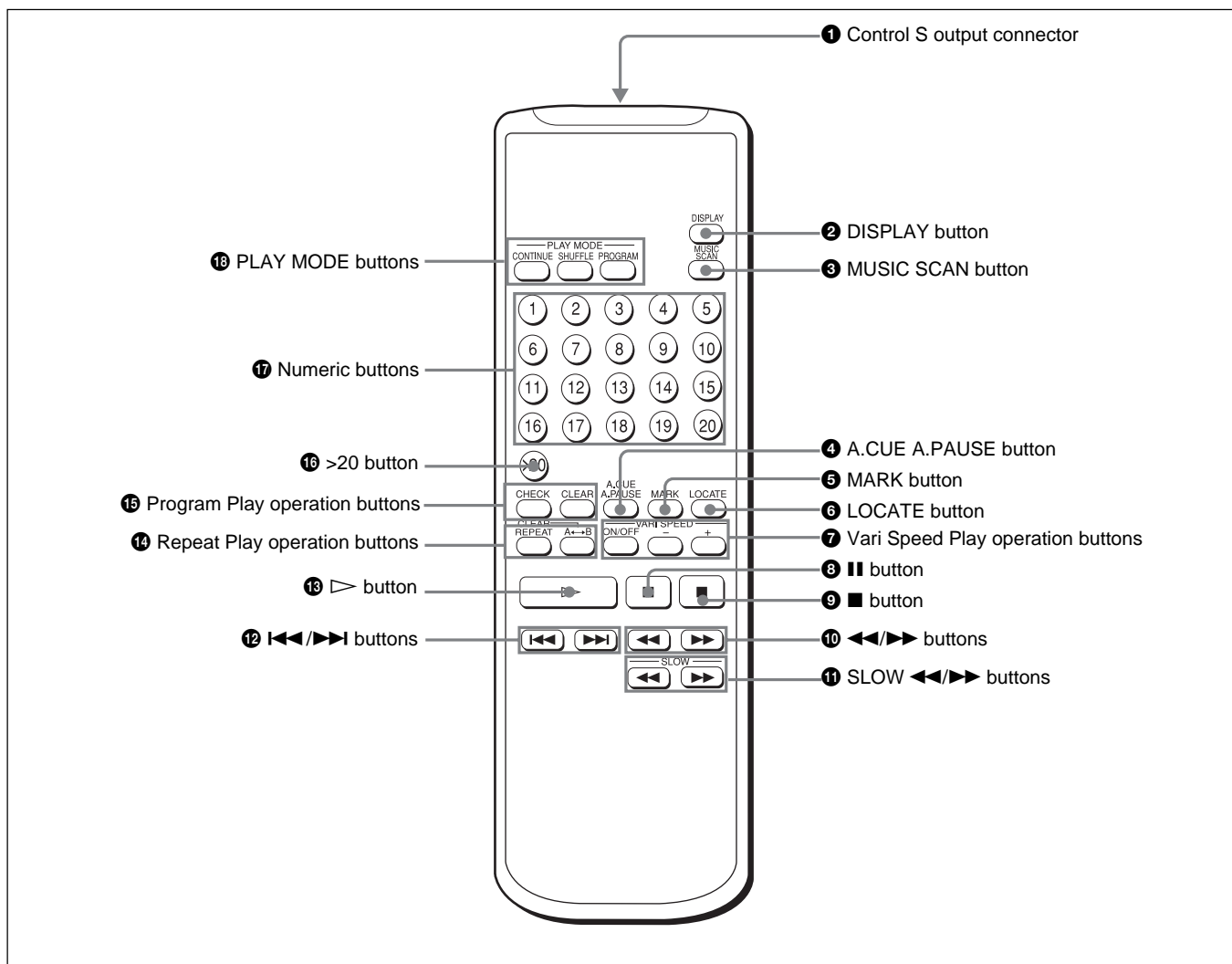
Note

When the control S cable is connected to the CTRL-S IN connector, the reception of infrared signals by the remote sensor is disabled. To use the supplied remote control unit as a wireless remote control unit, be sure to disconnect the control S cable from both the control S output connector on the front side of the remote control unit and the CTRL-S IN connector.

10 RELAY IN/OUT connectors

Use for Relay Play with multiple CDP-D12s.

Remote control unit



1 Control S output connector (mini jack)

To use the supplied remote control unit as a wired remote control unit, connect this connector to the CTRL-S IN connector on the main unit with the supplied control S cable.

Note

When the control S cable is connected to the control S output connector, infrared emission from the remote control unit is disabled. To use the remote control unit as a wireless remote control unit, be sure to disconnect the control S cable from both the control S output connector and the CTRL-S IN connector on the player.

2 DISPLAY button

Press to change the information in the display.

3 MUSIC SCAN button

Press to play a portion of the beginning of each track.

4 A.CUE A.PAUSE button

Press to select Auto Cue, Auto Pause, or normal play.

5 MARK button

Press to set a point within a track to be cued to by the LOCATE button.

6 LOCATE button

Press to cue to and pause at the point set by the MARK button.

Function of Parts and Controls

7 Vari Speed Play operation buttons

VARI SPEED ON/OFF button: Press to start Vari Speed Play.

VARI SPEED +/- buttons: Press to vary the playback speed in Vari Speed Play.

8 II (pause) button

Press to pause playback. Press during pause to resume playback.

9 ■ (stop) button

Press to stop play.

10 ◀▶ (search) buttons

Press to locate a point within a track.

11 SLOW ◀▶ (search at low speed) buttons

Press to locate a point within a track at low speed.

12 ◀▶ (locate) buttons

Press to locate the beginning of a track.

13 ▷ (play) button

Press to start play.

14 Repeat Play operation buttons

REPEAT button: Press to play tracks or a specified track repeatedly. Press also to cancel A-B Repeat Play.

A↔B button: Press to play a specific portion repeatedly.

15 Program Play operation buttons

CHECK button: Press to check the contents of the program.

CLEAR button: Press to delete a track from the program.

16 >20 button

Use to enter a track number over 20.

17 Numeric buttons (1 to 20)

Use to enter a track number directly.

18 PLAY MODE buttons

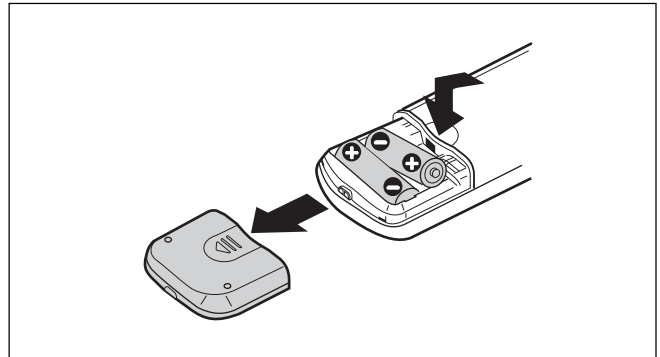
CONTINUE button: Press during Shuffle Play or Program Play to change to normal play.

SHUFFLE button: Press to select Shuffle Play.

PROGRAM button: Press to select Program Play.

Inserting batteries into the remote control unit

Insert two R6 (size-AA) batteries with the + and – terminals properly aligned to the markings in the battery compartment.



About battery life

Under normal conditions, the batteries should last for about six months. When the remote controller no longer operates the player, replace both batteries with new ones.

Notes

- Incorrect use of the batteries may cause a battery leakage or an explosion. Keep the following:
 - Insert the batteries with correct polarity.
 - Do not use a new battery with an old one.
 - Do not charge the batteries.
 - If you don't use the remote control unit for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.
 - If battery leakage has occurred, wipe inside the battery compartment and insert new batteries.
- Keep the remote sensor away from direct sunlight or strong illumination. Strong light may cause the remote control function to fail.

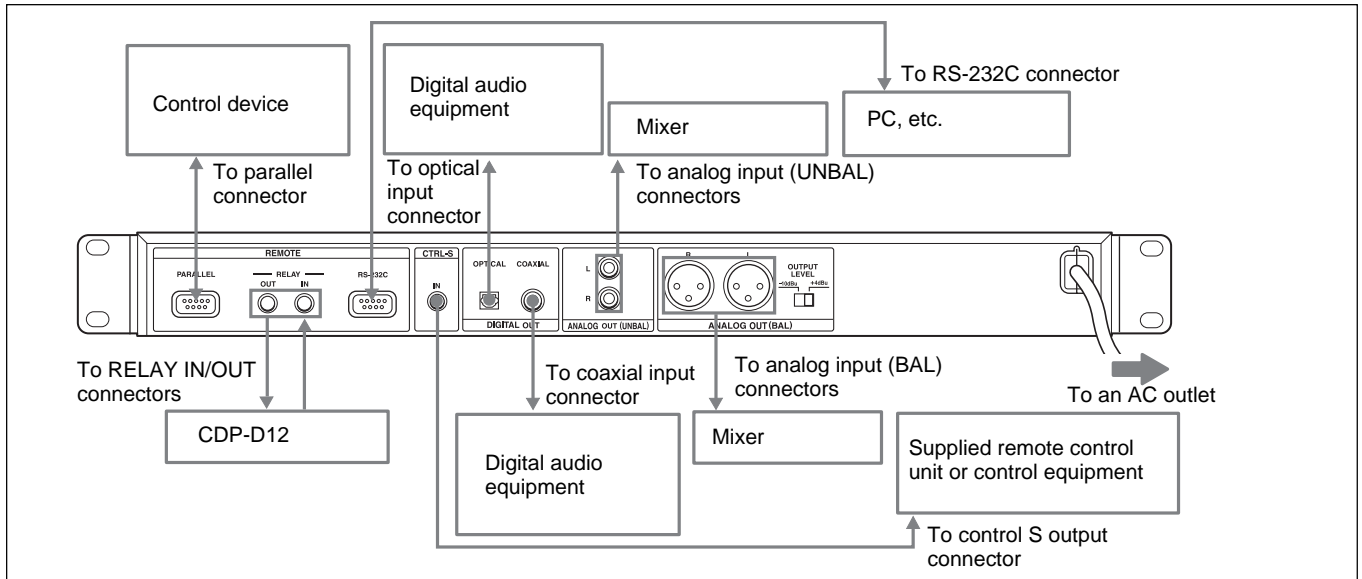
Connection

Connection to other devices

The CDP-D12 can be connected to other devices, as shown below.

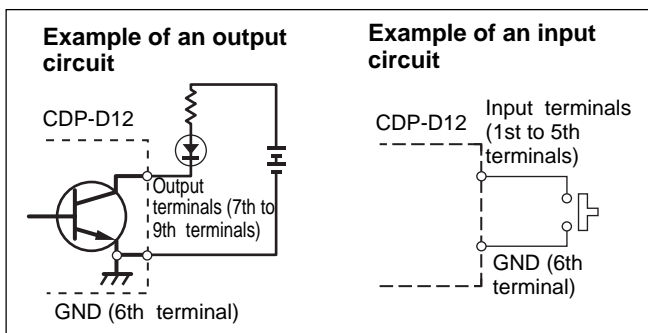
Notes

- Be sure the connections are firm to prevent hum and noise.
- Before making connections, be sure each component is turned off.

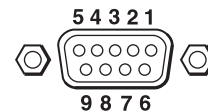


Connecting the PARALLEL connector

Remote control can be conducted by connecting simple circuits to the PARALLEL connector. Connecting an input circuit to an input terminal and the ground terminal allows the function assigned to that terminal to operate. The output terminals provide open collector output. By connecting an output circuit to the output terminals, the LEDs on the connected device can light up to show the status of the CDP-D12. The following figures show examples of input and output circuits.



The factory-set terminal assignments of the PARALLEL connector are as follows:



Terminal number

Terminal No.	Input/output	Function	Name in Menu mode
1	Input	PLAY	P.Input1
2	Input	PAUSE	P.Input2
3	Input	STOP	P.Input3
4	Input	AMS+	P.Input4
5	Input	AMS-	P.Input5
6	GND	—	—
7	Output	PLAY	P.Output1
8	Output	PAUSE	P.Output2
9	Output	NO DISC	P.Output3

Terminals 1 to 5 are fixed to input and 7 to 9 are fixed to output. The function of terminals 1 to 5 (input terminals, P.Input1 to P.Input5) and 6 to 9 (output terminals, P.Output1 to P.Output3) can be changed through menu settings.

The assignable functions are described in the table below:

Connection

Functions assignable to P.Input1 to P.Input5 (input terminals)

Indication	Function
PLAY/PAUSE	The same function as ▷ button on the main unit
PLAY	The same function as ▷ button on the remote
PAUSE	The same function as button on the remote
STOP	The same function as ■ button
AMS +	The same function as ►► button on the remote
AMS –	The same function as ◀◀ button on the remote
FF	The same function as ►► button
REW	The same function as ◀◀ button
MARK	The same function as MARK button on the remote
LOCATE	The same function as LOCATE button
EJECT	The same function as ≡ EJECT button on the main unit
Fader PLAY	Performs Fader Play (page 19)
1 Track PLAY to 20 Track PLAY	The same function as numeric buttons on the remote
OFF	No operation

Functions assignable to P.Output1 to P.Output3 (output terminals)

Indication	Function
PLAY	Grounding during playback on the player
PAUSE	Grounding during pause on the player
NO DISC	Grounding during no disc in the disc compartment
OFF	Always floating

Do the procedure below to change the function of each terminal.

- 1 Press the MENU/EXIT button while the player is stopped.
“MENU Mode” appears in the display.
- 2 Rotate the AMS control until “Parallel” appears in the display, and then push the control.
If “Parallel” is already set to “User,” skip this step and step 3, and go to step 4.
- 3 Rotate the AMS control until “User” appears in the display, and then push the control.

4 Rotate the AMS control until the terminal that you want to assign function to (e.g., “P.Input1” or “P.Output2”) appears in the display, and then push the control.

5 Rotate the AMS control until the function that you want to assign to the terminal that you selected appears in the display, and then push the control.
To assign functions to more terminals, repeat steps 4 and 5.

6 Press the MENU/EXIT button to complete the setting.

Notes

- When “Preset” is selected for “Parallel,” you cannot select terminals or assign functions to them. To enable the assigning of functions to terminals, first select “User” for “Parallel.”
- Doing the procedure above with “Preset” selected for “Parallel” allows you to check the factory setting for each terminal.

Electrical specifications for the PARALLEL connector

Input terminals

Input system	Make contact
Input ON voltage	Less than 0.5 V
Input OFF voltage	More than 3 V
Opening terminal voltage	5 V
Input pulse width	More than 100 msec
Input standing voltage	–0.5 to +10 V

Output terminals

Output system	Open collector for NPN transistor
Remaining voltage at ON	Less than 0.5 V
Maximum current at ON	100 mA
Standing voltage	20 V

Fader Play

Fader Play is available only when the CDP-D12 is connected to a mixer equipped with a remote fader function in which the $-\infty$ position (lowest position) is OFF and all other positions are ON.

If you connect the mixer's fader to the CDP-D12's PARALLEL connector terminal to which the Fader PLAY function is assigned, the fader can be used to control player operations. When the fader is lowered to $-\infty$, the player cues to and pauses at the beginning of the next track. When the fader is changed to another position, the player starts playing the track.

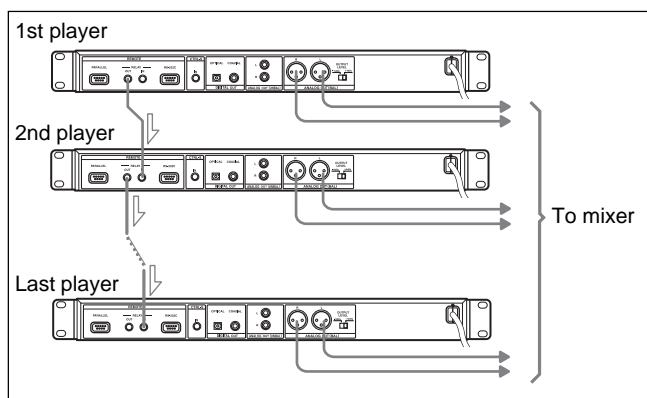
To do 1 Track Repeat Play

Because of the design of the CDP-D12, if you cue to the next track during 1 Track Repeat Play, the player will play the next track repeatedly. To do repeat play of only one track using Fader Play, make a program containing that track only (see "Programming the tracks" on page 28) and select Repeat All Play (see "Playing Tracks Repeatedly" on page 25) on the player.

Connecting the RELAY IN/OUT connectors

When you connect multiple CDP-D12s through the RELAY IN/OUT connectors, control signals are sent through the connectors to cause the players to play in sequence.

Connect the RELAY OUT connector of the first player to the RELAY IN connector of the second player using an optional stereo mini plug cable (RK-G136, etc.). Do the same with succeeding players. If you connect all the players in the loop, continuous repeat playback is possible.



Notes

- To do Relay Play properly, two lines of control signals are required. Be sure to use stereo-type mini plug cables for the connections. Using the monaural mini plug cables may result in operation failure.
- Relay Play may not be carried out properly if the cables with resistor are used for connection.

Relay Play

When multiple CDP-D12s are connected as shown above, when playback on the first player ends, control signals are output through the RELAY OUT connector to the RELAY IN connector on the second player and playback on the second player starts to automatically. If the second player is connected a third player via the RELAY IN/OUT connectors, playback on the third player will start when playback on the second player ends, and so on.

Notes

- If one of the players is set to Repeat All Play, Repeat 1 Play, or Repeat A-B Play, no control signals are output from that player and Relay Play ends at that point.
- All of the following conditions must be met on the second and succeeding players in order to perform Relay Play.
 - CDs which can be played are inserted in the players.
 - Players are stopped.
 - Players are not in menu operation.

Connection

Connecting the RS-232C connector

The RS-232C connector can be used for connecting external control devices.

For details on control protocols, consult Sony service personnel.

Connecting the CTRL-S IN connector

When using the supplied remote control unit as a wired remote control unit, use the supplied control S cable to connect the control S connector in the infrared emission section of the remote control unit to the CTRL-S IN connector. An external control device equipped with a control S connector can also be connected in the same manner.

In either case, it is possible to control the same functions as the supplied remote control unit when used as a wireless remote control unit.

Note

When the control S cable is connected to the CTRL-S IN connector, infrared reception of the player is disabled. To use the supplied remote control unit as a wireless remote control unit, be sure to disconnect the control S cable from both the control S output connector on the remote control unit and the CTRL-S IN connector on the player.

Connecting the OPTICAL connector

Use an optional optical digital cable to connect an MD deck or an amplifier equipped with an optical input connector to this connector.

Connecting the COAXIAL connector

Use an optional coaxial digital cable to connect an MD deck or an amplifier equipped with a coaxial input connector to this connector.

Connecting the ANALOG OUT (UNBAL) connectors

Use an optional pin-type audio connecting cable to connect analog audio equipment to these connectors.

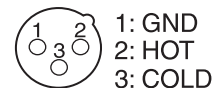
Connecting the ANALOG OUT (BAL) connectors

Use the optional XLR-type audio connecting cables to connect analog audio equipment to these connectors. When using these connectors, the output level can be set by the OUTPUT LEVEL selector on the rear panel of the player.

Selector position	Output level
+4 dBu	Outputs digital –20 dB signals at +4 dBu.
–10 dBu	Outputs digital–20 dB in signals at –10 dBu.

The pin assignments of the ANALOG OUT (BAL) connector are as follows:

The output terminals are equivalent to the XLR-3-32.

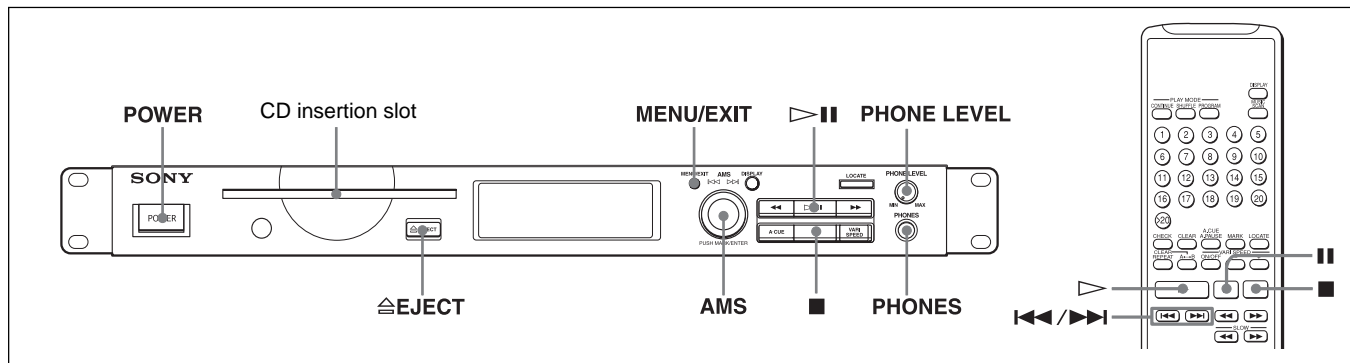


Mounting the player in a rack

The CDP-D12 can be mounted in an EIA standard 19-inch rack. Pull out the plastic pins from the four feet on the bottom of the player and remove the feet. Then mount the player in the rack.

Playing a CD

The basic CD playback procedure and operations are explained below.



- 1** Press the POWER switch to turn on the player.
- 2** Insert a CD with its label side up into the CD insertion slot.
When you insert the CD, it is automatically pulled in and loaded.
- 3** Press the ▷|| button (or the ▷ button on the remote) to start playback.
You can also start playback by pressing the AMS control.
If necessary, rotate the AMS control (or press ►► on the remote repeatedly) to locate the track you want to start playing from.

Basic playback operations

To	Do the following:
Stop play	Press the ■ button.
Pause play	Press the ▷ button (or the button on the remote).
Resume play after pausing	Press the ▷ button (or the or ▷ button on the remote).
Locate a succeeding track	Rotate the AMS control clockwise (or press the ►► button on the remote repeatedly)
Locate the beginning of the current track or a preceding track	Rotate the AMS control counterclockwise (or press the ◀◀ button on the remote repeatedly).
Eject the CD*	Press the ≡ EJECT button after stopping play.

* The CD is ejected halfway and stops. After about 16 seconds, the CD player pulls in the CD again to protect it.

To use headphones

Connect headphones to the PHONES jack and adjust the volume by turning the PHONE LEVEL control.

To lock the ≡ EJECT button

To prevent ejection of the CD by mistake during playback or pause, the ≡ EJECT button can be locked by a menu operation.

- 1** While the player is stopped, press the MENU/EXIT button.
“MENU Mode” appears in the display.
- 2** Rotate the AMS control until “PLAY/PAUSE” appears in the display, and then press the control.
- 3** Rotate the AMS control until “EJ. Disable” appears in the display, and then press the control.
- 4** Press the MENU/EXIT button to complete the setting.

To unlock the ≡ EJECT button

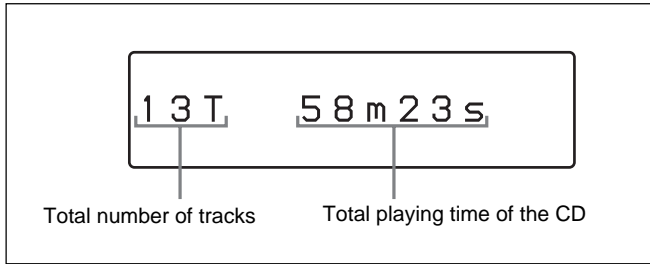
Do the procedure above, selecting “EJ. Enable” in step 3.

Using the Display

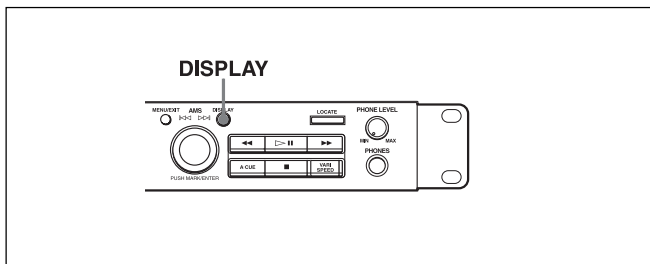
The display shows various information about the CD or the track.

When you insert a CD

The display shows the total number of tracks and total playing time of the CD.

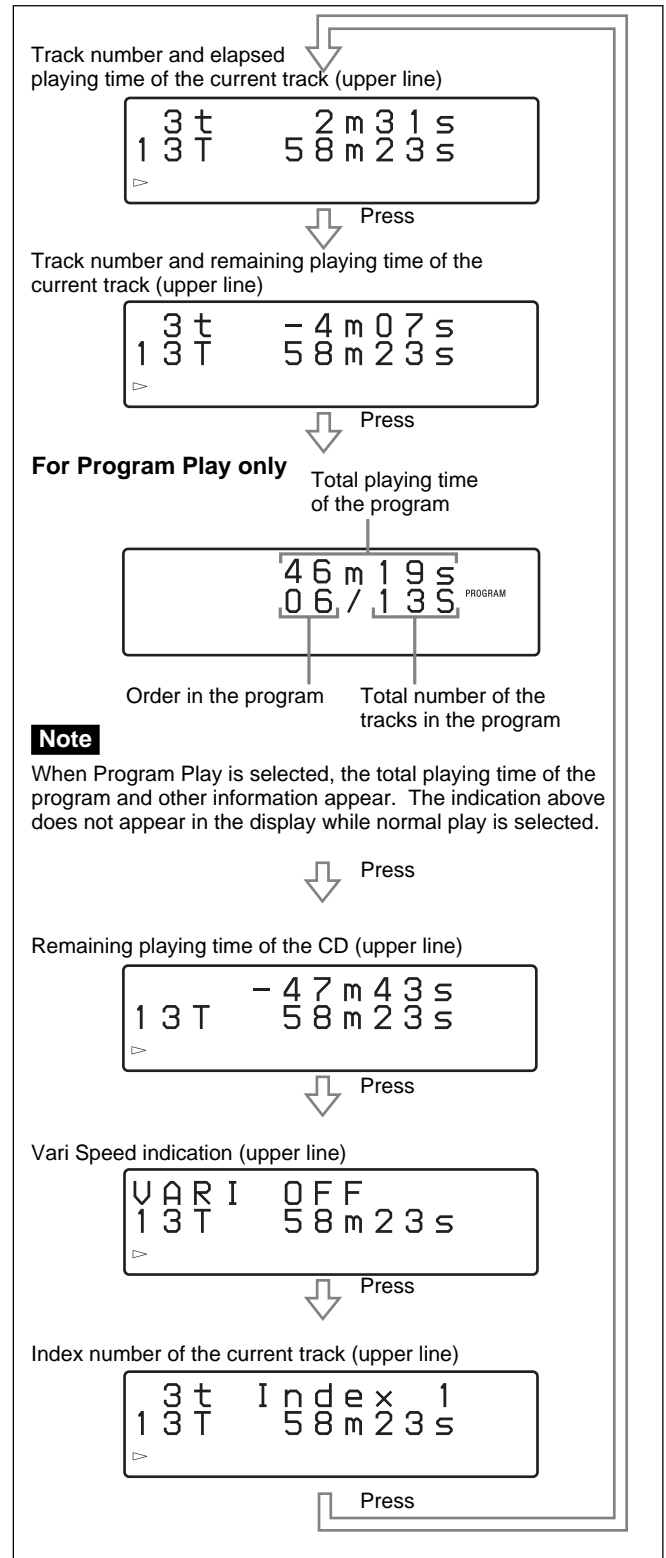


While the player is playing



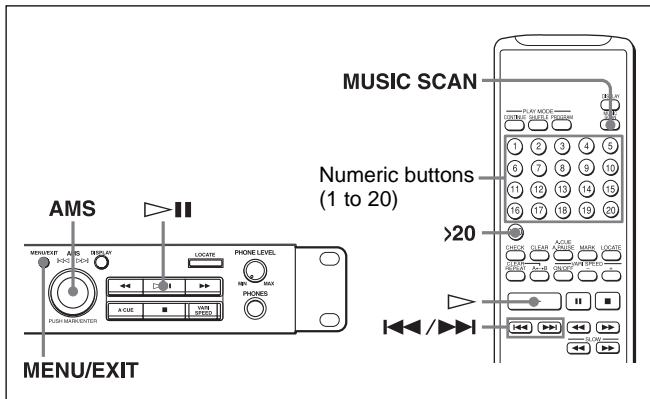
Press the DISPLAY button repeatedly to change the display.

Each press of the button changes the display as follows:



Locating a Specific Track

When the player is playing, paused, or stopped, use the procedure below to quickly locate tracks.



Cueing to a track with the AMS control (or **⏮/⏭** buttons on the remote)

If you cue to a track while the player is playing, the located track starts to play automatically. If you cue to a track while the player is stopped or paused, the player will stop or pause at the beginning of the located track.

To cue to	Do the following:
The next or a succeeding track during play or pause	Rotate the AMS control clockwise (or press the ⏭ button on the remote repeatedly).
A preceding track during play or pause	Rotate AMS counterclockwise (or press the ⏮ button on the remote repeatedly).
The beginning of the current track during play	Rotate AMS counterclockwise (or press the ⏮ button on the remote once).
A specific track while the player is stopped	Rotate AMS (or press the ⏮ or ⏭ button on the remote repeatedly) until the track number you want appears in the display, and then press the AMS control or the ⏭ button (or the ⏭ button on the remote).

Cueing to a track by entering the track number from the remote

Press the numeric button(s) on the remote to enter the number of the track you want to cue to.

When you cue to a track while the player is playing, the track starts to play automatically. If you cue to a track while the player is stopped or paused, the player will stop at the beginning of the track or starts to play that track.

To enter a track number over 20

Press the **>20** button on the remote, and then enter the corresponding digits. To enter 0, press the 10 button instead.

Example:

To play track number 30, press the **>20** button, and then the 3 and 10 buttons.

Locating a track by listening to the beginning of each track (Music Scan)

- 1 Press the MUSIC SCAN button on the remote. After the first part of a track is played (scanned) for the set number of seconds, Music Scan continues with the next track.
- 2 Press the **▷** button on the remote when you find the track you want.

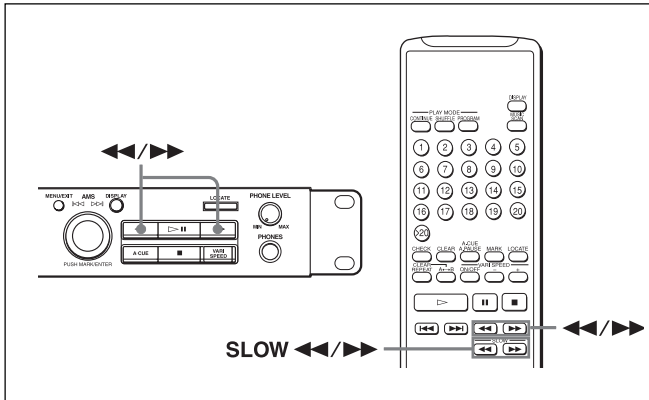
To change the scanning time of each track

The scanning time for Music Scan is factory set at 10 seconds.

- 1 While the player is stopped, press the MENU/EXIT button.
- 2 Rotate the AMS control until "Music SCAN" appears in the display, and then press the control.
- 3 Rotate the AMS control to select the scanning time, and then press the control. A scanning time of 6 to 20 seconds (in 1-second intervals) can be set.
- 4 Press the MENU/EXIT button to complete the setting.

Locating a Particular Point in a Track

You can locate a particular point in a track during playback or pause.



There are the three following ways to locate a point within a track:

- **Low-speed search**

Searches for point at 3 times the normal playback speed.

- **Standard-speed search**

Searches for point at 20 times the normal playback speed.

- **High-speed search**

Searches for point at 60 times the normal playback speed. During high-speed search, you must use the time indication to search for a point since sound is not output.

Making menu settings for outputting sound during high-speed search

- 1 While the player is stopped, press the MENU/EXIT button.
- 2 Rotate the AMS control until “PAUSE ◀▶” appears in the display, and then press the control.
- 3 Rotate the AMS control until “SOUND ON” appears in the display, and press the control.
- 4 Press the MENU/EXIT button to complete the setting.

Note

The setting above applies only for high-speed search. The sound is always output for low-speed and standard-speed search regardless of the setting.

Locating a point while monitoring the sound

This operation is possible only when “PAUSE ◀▶” is set to “SOUND ON.”

Press down the ◀▶ or ▶▶ button on the player or remote, or press down the SLOW ◀▶ or ▶▶ button on the remote during play or pause. You will hear intermittent playback as the disc goes forward or reverses. When you reach the desired point, release the button. The search speed varies depending on the status of the player (playback or pause) and the buttons used.

Buttons used	During play	During pause
◀▶▶ on the player	standard	low-speed
◀▶▶ on the remote	standard	standard
SLOW ◀▶▶	low-speed	low-speed

Locating a point by observing the time indication

This operation is possible only when “PAUSE ◀▶” is set to “SOUND OFF.” No sound is output at this time.

Press down the ◀▶ or ▶▶ button on the player or remote, or press down the SLOW ◀▶ or ▶▶ button on the remote during playback or pause. When you reach the desired point, release the button. The search speed varies depending on the status of the player (playback or pause) and the buttons used.

Buttons used	During play	During pause
◀▶▶ on the player	standard	high-speed
◀▶▶ on the remote	standard	high-speed
SLOW ◀▶▶	low-speed	low-speed

When “OVER” appears in the display

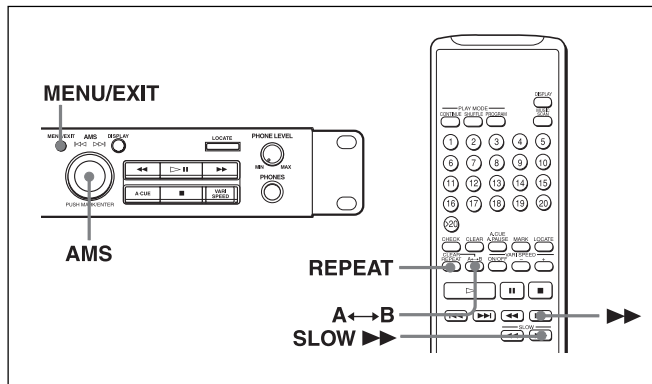
The disc has reached the end while you’re pressing the ▶▶ button. Rotate the AMS control counterclockwise (or press the ◀◀ button) or press the ◀▶ button to go back.

Note

If the disc reaches the end while you are pressing the ▶▶ button or the SLOW ▶▶ button on the remote during playback, the player stops.

Playing Tracks Repeatedly

You can play an entire CD repeatedly. This function can be used with Shuffle Play to repeat all the tracks in random order, or with Program Play to repeat all the tracks in the program. You can also repeat a specific track or a portion within a track or the portion exceeding the boundaries of the tracks.



Note

If you turn off the player or disconnect the power cord, the player will store the last repeat play setting (“REPEAT ALL” or “REPEAT 1”) and recall the setting the next time you turn on the player. The A-B Repeat Play setting, however, will be erased when you cue to another track by rotating the AMS control (or by pressing the **◀◀** or **▶▶** button on the remote), stop playback, or press one of the PLAY MODE buttons on the remote.

Repeating all the tracks on the CD (Repeat All Play)

Press the REPEAT button on the remote repeatedly until “REPEAT ALL” appears in the display. When you play a CD, the player repeats the tracks as follows:

When the play mode is	The player repeats
Normal play (page 21)	All the tracks in sequence
Shuffle Play (page 27)	All the tracks in random order
Program Play (page 28)	All the tracks in the program in sequence

To resume normal play

Press the REPEAT button repeatedly until “REPEAT OFF” appears in the display.

Repeating the current track (Repeat 1 Play)

While the track you want to repeat is being played, press the REPEAT button on the remote repeatedly until “REPEAT 1” appears in the display.

To resume normal play

Press the REPEAT button repeatedly until “REPEAT OFF” appears in the display.

Repeating a specific portion (Repeat A-B Play)

You can specify one portion within a track to be played repeatedly. You can even set the portion exceeding the boundaries of the tracks.

- 1 While the player is playing, press the A↔B button on the remote at the starting point (point A) of the portion to be played repeatedly. “REPEAT A-” appears in the display.
- 2 Continue playing the track or press the ▶▶ button to locate the ending point (point B), and then press the A↔B button. “REPEAT A-B” appears and Repeat A-B Play starts.

To resume normal play

Press the REPEAT button repeatedly until “REPEAT OFF” appears in the display.

To change the portion to be repeated

Do the procedure above to set a new starting point and ending point.

Note

When Auto Pause or Auto Cue is selected, the player pauses at the starting point of the portion to be repeated or the beginning of the track(s) contained in the specified portion.

Playing Tracks Repeatedly

To make settings for Repeat All Play, Repeat 1 Play, and Repeat A-B Play by menu operation

To make settings for Repeat A-B Play, do the procedure below while the player is playing.

- 1** Press the MENU/EXIT button, rotate the AMS control until “REPEAT Mode” appears in the display, and then press the control.
- 2 To select Repeat All Play or Repeat 1 Play**
Rotate the AMS control until “REPEAT ALL” or “REPEAT 1” appears in the display, and then press the control.

To select Repeat A-B Play

- 1)** While the player is playing, rotate the AMS control until “REPEAT A-B” appears in the display, and then press the control.
- 2)** Press the AMS control at the starting point (point A) of the portion to be played repeatedly.
- 3)** Continue playing the track or press the ►► button to locate the ending point (point B), and then press the AMS control.

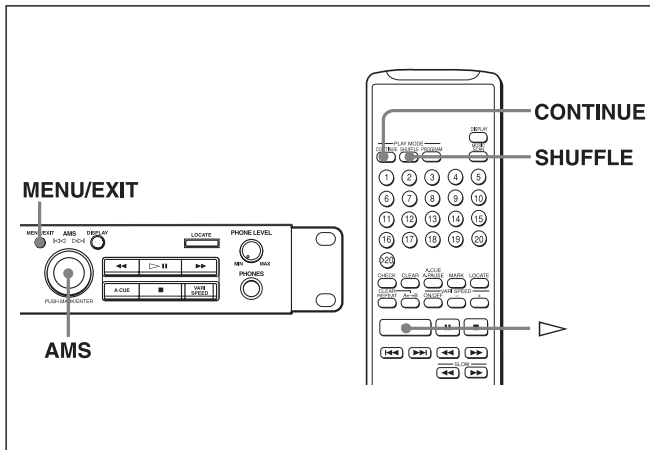
To resume normal play

Rotate the AMS control until “REPEAT OFF” appears in the display, and then press the control.

- 3** Press the MENU/EXIT button to complete the setting.

Playing Tracks in Random Order (Shuffle Play)

When you select Shuffle Play, the player plays all the tracks on the CD in random order.



1 While the player is stopped, press the PLAY MODE button on the remote repeatedly until the SHUFFLE indicator lights up and “SHUFFLE” appears in the display.

2 Press the ▷ button on the remote. Shuffle Play starts.

To resume normal play

Press the CONTINUE button to display “CONTINUE” in the display window.

To locate next track during Shuffle Play

To locate the next track to be played, rotate the AMS control clockwise (or press the ►► button on the remote once). To locate the beginning of the current track, rotate AMS counterclockwise (or press the ◀◀ button on the remote once). Note that you cannot locate and play tracks that have already played once.

To make settings for Shuffle Play by menu operation

1 Press the MENU/EXIT button, rotate the AMS control until “PLAY Mode” appears in the display, and then press the control.

2 To select Shuffle Play

Rotate the AMS control until “SHUFFLE” appears in the display, and then press the control.

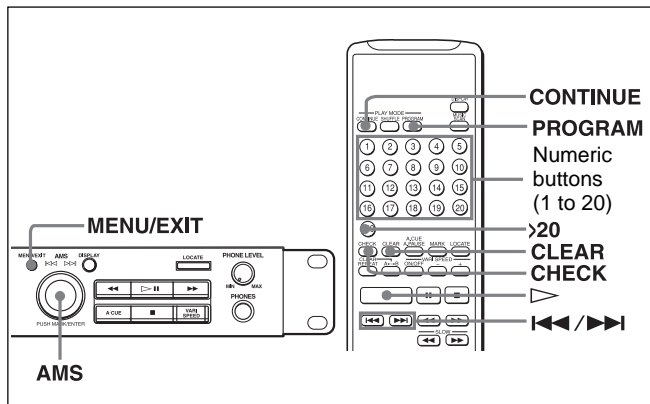
To resume normal play

Rotate the AMS control until “CONTINUE” appears in the display, and then press the control.

3 Press the MENU/EXIT button to complete the setting.

Creating Your Own Program (Program Play)

You can pick out the tracks that you like and specify the playback order in a program containing up to 99 tracks.



To enter the tracks while checking the total playing time of the program

In step 2 or 3 above, press the **◀◀** or **▶▶** button repeatedly until the track number you want to add to the program appears. The selected track number and total playing time including the track appear in the display. If you press the PROGRAM button at this time, the track is added to the program.

Notes

- The program is erased when normal play or Shuffle Play is selected or the CD is ejected.
- When the player is turned off or the AC power cord is disconnected, tracks after the 25th in the program are erased.
- Up to 99 tracks and up to 888 minutes of tracks can be programmed. If you attempt to program more, “Program Full” or “Time FULL” appears in the display.

Programming the tracks

1 While the player is stopped, press the PROGRAM button on the remote. The PROGRAM indicator lights up and “PROGRAM” appears in the display.

2 Press the numeric button(s) on the remote to enter a track number.

If you entered the wrong track number

Press the CLEAR button on the remote to erase the wrong track number, and then do step 2 above again.

To enter a track number over 20

Use the >20 button (page 23).

3 Repeat step 2 to enter other tracks. Each time a track is added to the program, the total number of tracks and total playing time of the program are recalculated and appear in the display.

4 Press the **▷** button on the remote (or the **▷||** button on the player) to start Program Play. The program remains even after Program Play ends or is stopped. Press the **▷** button (or the **▷||** button) to play the program again.

To resume normal play

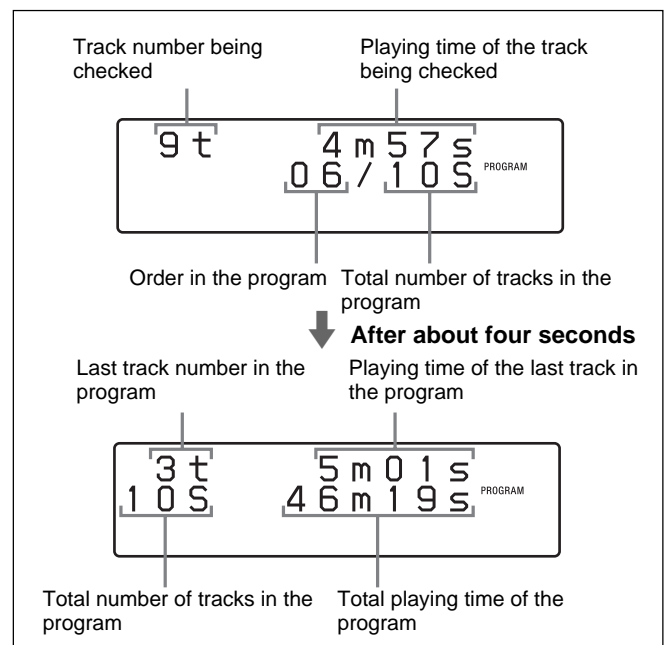
Press the CONTINUE button to display “CONTINUE” in the display window.

Checking the contents of the program

While the PROGRAM indicator lights up in the display, press the CHECK button on the remote.

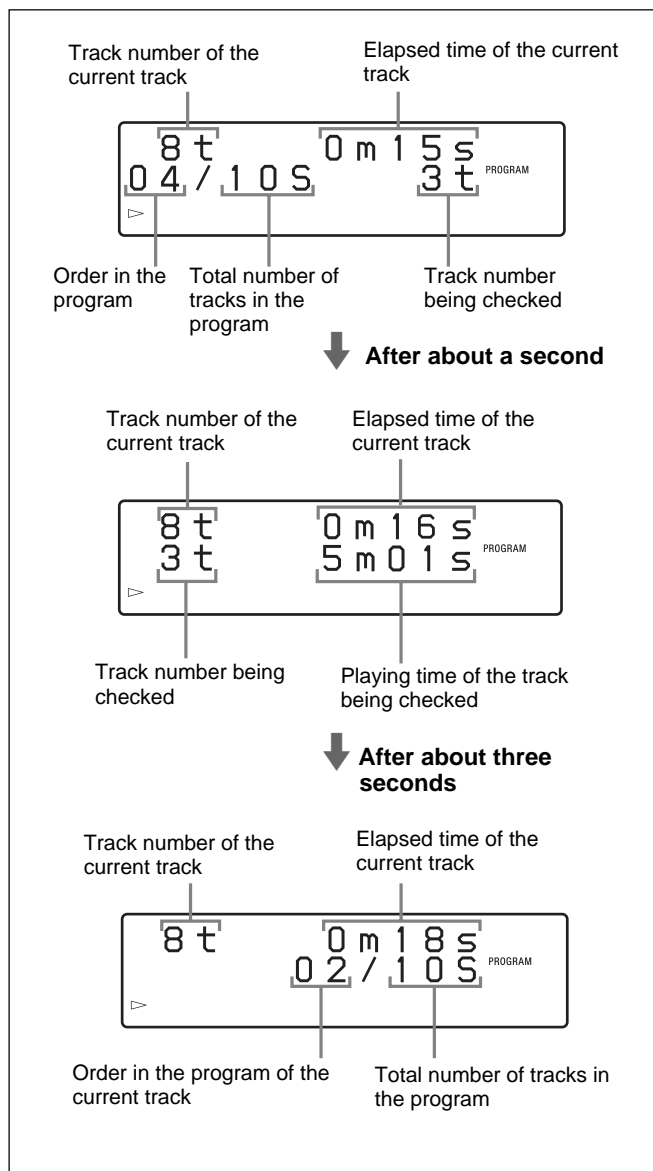
While the player is stopped

Each time the CHECK button is pressed, the number and playing time of each of the programmed tracks are displayed in sequence. After about four seconds, the display returns to the status before the CHECK button was pressed.



While the player is playing or paused

Each time the CHECK button is pressed, the number and playing time of the current and those of the succeeding tracks in the program are displayed in sequence.



Changing the contents of the program

While the player is stopped and the PROGRAM indicator lights up in the display, do one of the procedures below to change the contents of the program:

To	Do the following:
Erase a track in the middle of the program	Press the CHECK button repeatedly until the number of the unwanted track appears, and then press the CLEAR button.
Erase the last track of the program	Press the CLEAR button. Each time the button is pressed, the last track is erased.
Add a track to the end of the program	Press the numeric button to enter the track number.
Erase all tracks	Press the CONTINUE button or SHUFFLE button.

Note

When Program Play is selected while a track is being played, the track is programmed.

To make settings for Program Play by menu operation

To program the tracks

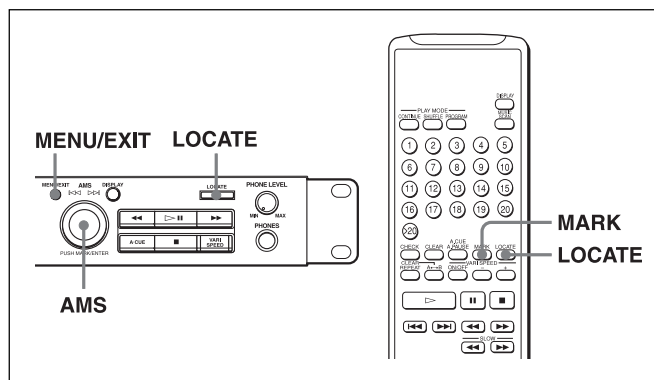
- 1** Press the MENU/EXIT button, rotate the AMS control until "PLAY Mode" appears in the display, and then press the control.
- 2** Rotate the AMS control until "PROGRAM" appears in the display, and then press the control.
- 3** Press the MENU/EXIT button.
- 4** Rotate the AMS control to select the track, then press the control.
- 5** Repeat step 4 to program other tracks.

To check the contents of the program

While the player is paused, rotate the AMS control to display the track number, order in the program, and the total number of tracks in the program.

Quickly Accessing a Specified Point (Mark & Locate)

By marking a specific point, you can locate that point repeatedly.



Marking the point (Mark)

While the player is playing, press the AMS control (or the MARK button on the remote).

The playback point at the time the AMS control (or the MARK button) is pressed is entered as the locate point.

To mark a point by a menu operation

You can enter the track number and time data to mark a point.

- 1 Press the MENU/EXIT button, rotate the AMS control until “Direct MARK” appears in the display, and then press the control.
- 2 Rotate the AMS control to select the track number, and then press the control.
- 3 Rotate the AMS control to select the minute of the point, and then press the control.
- 4 Rotate the AMS control to select the second of the point, and then press the control.
- 5 Press the MENU/EXIT button to complete the setting.

Note on marking

In the following cases, the track number and time data for the marked point and for the point that is actually located may not match.

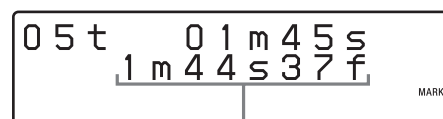
- If the point is marked while a minus time indication appears at the beginning of the track
- If the point marked by a menu operation is located within the last few seconds of the track

The discrepancy is due to the mechanical limits of the player and does not reflect a problem in the actual operation. It is, however, recommended that you do not mark a point at such a location.

Adjusting the marked point (Rehearsal)

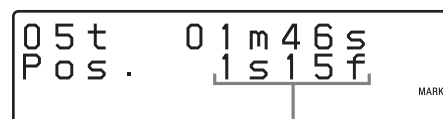
The position of the marked point can be adjusted while listening to the playback.

- 1 While the player is stopped, press the MENU/EXIT button, rotate the AMS control until “Rehearsal” appears in the display, and then press the control. After a few seconds, “Rehearsal Start” appears and a few seconds of the track up to the marked point begins to play back repeatedly.



Marked point

- 2 Rotate the AMS control to move the marked point. The time indication of the moved point and “Pos ok?” alternates in the display. The point can be moved up to 8 seconds in the forward or reverse direction in 5-frame intervals (5 frames = approximately 0.0667 seconds).



Amount of shift

- 3 After adjusting the point, press the AMS control. “Rehearsal Complete” appears in the display for a few seconds.

4 Press the MENU/EXIT button to complete the setting.

Notes

- If no point is marked, “Rehearsal” does not appear in the display in the step 1 of the procedure above.
- If you press the MENU/EXIT button without moving the marked point, “Not Changed” appears in the display.
- The point can be moved within the boundaries of one track; it cannot be moved to the other track.

Cueing to the marked point (Locate)

Press the LOCATE button.

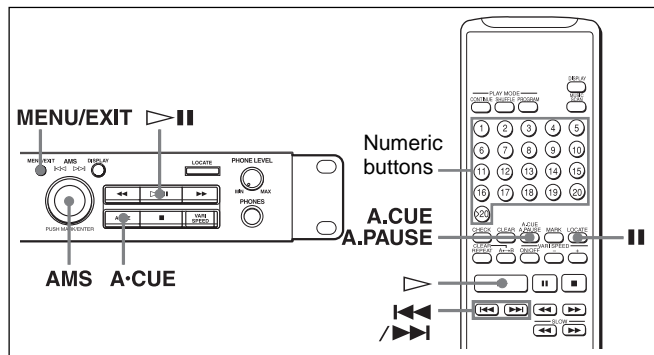
The player cues to the marked point and pauses.

Notes

- When the marked point is located, the player may pause at a point several frames after the marked point due to the recording condition of the disc. If the time of the marked point is near the change-over to the next second, the time of the located point may differ by one second with the time of the marked point.
- If during Program Play you press the LOCATE button, but the track containing the marked point is not included in the program, “XX t Not PRG” appears in the display. (“XX” indicates a track number.)

Locating the Beginning of a Track (Auto Pause/ Auto Cue)

Two functions are provided for locating the beginning of the track. When Auto Pause is selected, the player pauses at the beginning of the next track after playback of each track. When Auto Cue is selected, the player pauses at the beginning of the next track after skipping the portion with no sound, allowing immediate playback of the sound content.



Pausing after playback of each track (Auto Pause)

The player pauses automatically at the beginning of the next track. This function is convenient for recording a single track or several tracks that are not sequential.

Press the A.CUE button (or A.CUE A.PAUSE button on the remote) repeatedly until “AUTO PAUSE” appears in the display.

To resume normal play

Press the A.CUE button (or A.CUE A.PAUSE button on the remote) repeatedly until “AUTO:OFF” appears in the display.

Playing sound content instantly (Auto Cue)

It is possible to start playback of the sound content of a track while skipping the silent portion at the beginning.

- 1 Press the A.CUE button (or A.CUE A.PAUSE button on the remote) repeatedly until “AUTO CUE” appears in the display.
- 2 Rotate the AMS control (or press the **◀◀** or **▶▶** button repeatedly) to select the track that you want to play back without the silent portion, and then press the control.

When using numeric buttons to select the track

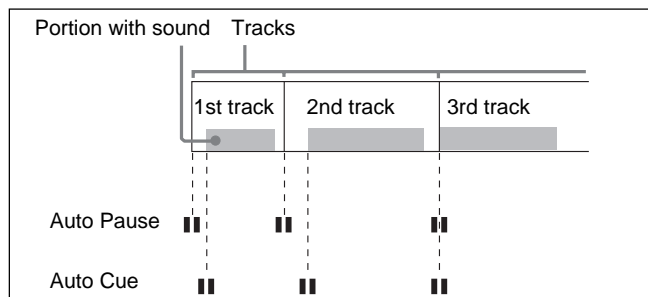
Since the player locates and pauses at the point where sound begins in the selected track, it is not necessary to do step 3 below.

- 3 Press the AMS control or the **▷||** button (or the **▷** button on the remote). “AUTO CUE” appears in the display and the player locates and pauses at the point at which the sound begins in the selected track.
- 4 Press the **▷||** button (or the **▷** button on the remote). Sound playback starts immediately.

To resume normal play

Press the A.CUE button (or A.CUE A.PAUSE button on the remote) repeatedly until “AUTO:OFF” appears in the display.

Difference between locating points by Auto Pause and Auto Cue



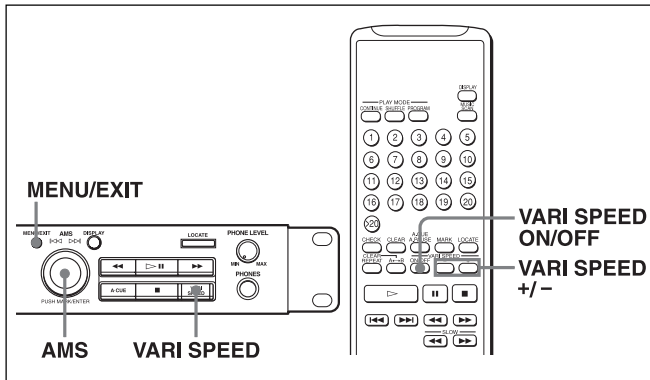
To change the threshold level of the Auto Cue function

The player is factory set to a sound threshold of -72 dB.

- 1 While the player is stopped, press the MENU/EXIT button. “MENU Mode” appears in the display.
- 2 Rotate the AMS control until “Auto CUE” appears in the display, and then press the control.
- 3 Rotate the AMS to select the threshold level, and then press the control. Five threshold levels can be set: -72 dB, -66 dB, -60 dB, -54 dB, -48 dB.
- 4 Press the MENU/EXIT button to complete the setting.

Changing the Playback Speed (Vari Speed Play)

The playing time can be adjusted by varying the playback speed within a range of $\pm 12.5\%$. When the playback speed is set lower than 0%, the pitch falls; when it is set higher than 0%, the pitch rises. The selected speed is memorized even after Vari Speed Play is turned off. When you select Vari Speed Play again, the player begins playing in the selected speed.



Note

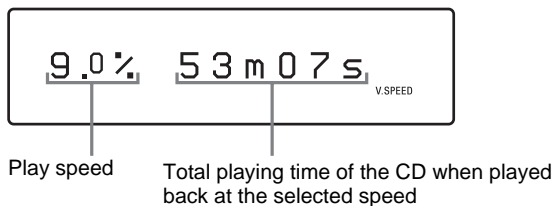
While the player is playing in Vari Speed Play, digital audio devices connected to the player may not receive digital signals from the player properly. In this case, connect the player to analog audio devices.

Varying the playback speed on the player

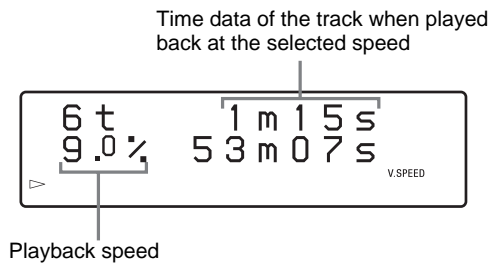
- 1 Press the VARI SPEED button.
The V.SPEED indicator lights up in the display and the current setting of the playback speed appears for about four seconds.
- 2 Rotate the AMS control while pressing down the VARI SPEED button to select the playback speed, and then release the VARI SPEED button.
The playback speed can be adjusted in 0.5% intervals.

While changing the playback speed, the display shows the information depending on the status of the player as follows:

While the player is stopped



While the player is playing or paused



Note

If while the V.SPEED indicator is lit you press down the VARI SPEED button and then release it without selecting a playback speed, the indicator turns off and Vari Speed Play is canceled.

To resume normal play

Press the VARI SPEED button to turn off the V.SPEED indicator.

Varying the playback speed with the remote

- 1 Press the VARI SPEED ON/OFF button.
The V.SPEED indicator lights up in the display.
- 2 Press the VARI SPEED +/- buttons repeatedly to select the playback speed.
The playback speed can be adjusted in 0.5% intervals.

To resume normal play

Press the VARI SPEED ON/OFF button to turn off the V.SPEED indicator.

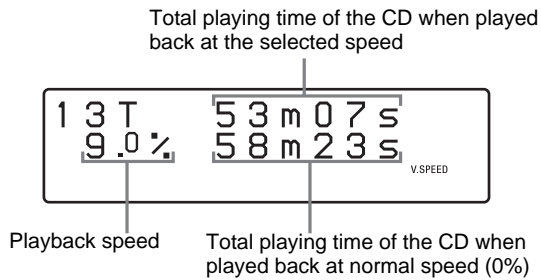
To change the playback speed by menu operation

- 1 Press the VARI SPEED button (or VARI SPEED ON/OFF button on the remote) to turn on the V.SPEED indicator in the display.
- 2 Press the MENU/EXIT button, rotate the AMS control until "Variable" appears in the display, and then press the control.

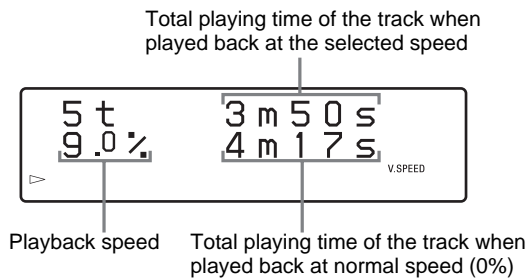
Changing the Playback Speed (Vari Speed Play)

- 3 Rotate the AMS control to select the playback speed, and then press the control.

While the player is stopped



While the player is playing or paused

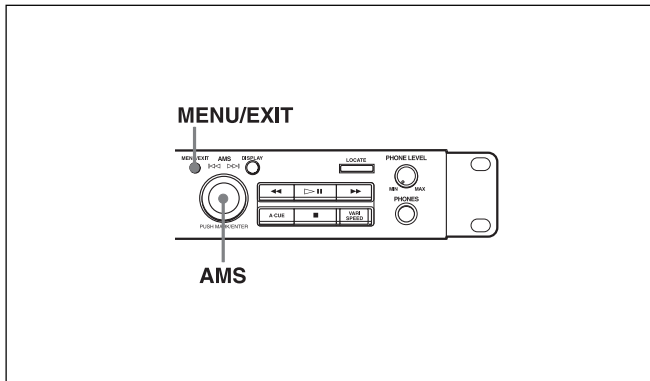


- 4 Press the MENU/EXIT button to complete the setting.

Timer-activated Playback

When the player is connected to an external audio timer, playback can be started or stopped at the specified time.

For details, refer to the operation manual of the timer.



- 1** Connect the player to an audio timer and turn on the timer.
- 2** Do steps 1 and 2 on “Playing a CD” on page 21.
- 3** Rotate the AMS control until “Timer” appears in the display, and then press the control.
- 4** Rotate the AMS control until “PLAY” appears in the display, and then press the control.
- 5** Press the MENU/EXIT button to exit the menu operation.
- 6** Set the timer as required.
 - When you have set the time for the start of playback, the player turns off. When the specified time arrives, the player turns on and starts playing.
 - When you have set the time for the end of playback, playback continues. When the specified time arrives, the player stops playback and turns off.
 - When you have set the time for both the start and end of playback, the player turns off. When the starting time arrives, the player turns on and starts playing. When the ending time arrives, the player stops playback and turns off.

- 7** Select the playback mode (page 21, 25 to 29).
When Program Play is selected, be sure to program tracks.
If you have set the time for the end of playback, press the ▷|| button (or the ▷ button on the remote) to start playback.

After the timer playback has finished

If “PLAY” is selected for the timer setting, playback will start automatically whenever you turn on the player. When the timer is not used, be sure to do steps 3 to 5 above to set “Timer” to “OFF.”

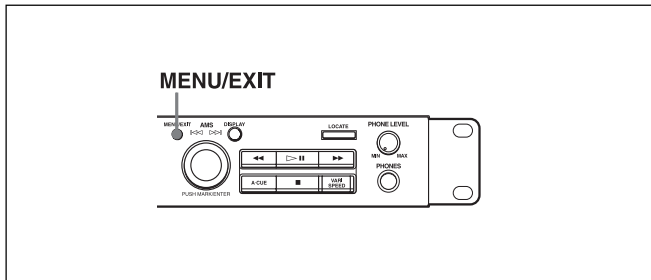
Notes

- If the player is set to start playback at the specified time and when Program Play is selected, the first to 24th tracks are stored in memory and after the 25th in the program are erased when the player turns off (page 28).
- If Auto Pause or Auto Cue is selected when the player is set to start playback at the specified time, playback is paused at the beginning of the first track. To play tracks using the timer, be sure that Auto Pause nor Auto Cue is selected.

Table of Menu Items

The following table provides an overview of the various menu items, including their parameters, factory settings, and reference page in the manual.

To access the menu



While the player is stopped, press the MENU/EXIT button to display “MENU Mode.”

Note

The available menu items may vary according to the current status of the player.

Item	Function	Parameters	Factory setting	Reference page
PLAY Mode	Selects the playback mode.	CONTINUE/ SHUFFLE/ PROGRAM	CONTINUE	21, 27-19
REPEAT Mode	Selects the repeat play mode.	OFF/ALL/1/A-B	OFF	25, 26
Music SCAN	Selects the scanning time of each track.	6sec to 20sec ¹⁾	10sec	23
Auto CUE	Selects the threshold level for Auto Cue.	-72dB/-66dB/ -60dB/-54dB/-48dB	-72dB	32
Variable	Selects the playback speed.	-12.5% to +12.5% ²⁾	0%	33
PAUSE ◀◀/▶▶	Sets the sound output for search function.	SOUND ON/ SOUND OFF	SOUND OFF	24
Rehearsal	Adjusts the marked point.	-8s00f to 8s00f ³⁾	—	30
Direct MARK	Marks a point by entering track number and time data.	-t -m -s	—	30
PLAY/PAUSE	Locks/unlocks the \cong EJECT button.	EJ. Enable/ EJ. Disable	EJ. Enable	21
Timer	Activates/deactivates timer-activated playback.	PLAY/OFF	OFF	35
Parallel	Assigns the functions of the PARALLEL connector.	User ⁴⁾ /Preset	Preset	18

1) Adjustable in 1 second steps

2) Adjustable in 0.5% steps

3) Adjustable in 5 frame steps

4) When “User” is selected, you can assign the function for each terminal of the PARALLEL connector. For details, see page 18.

Display Messages/Last Mode Memory

Table of display messages

The following table shows the various messages that appear in the display and their meanings.

Message	Meaning
No Disc	No CD is inserted.
Disc Error	An error occurred during loading or ejection of the CD.
	An error occurred during reading of the CD.
	Play was interrupted due to a defect in the CD.
OVER	The end of the disc was reached as you pressed the ►► button while searching for a particular track position.
Timer Play	The time specified by Timer-activated Play has arrived and the CD player has started playing.
XX t Not PRG*	During Program Play, an attempt was made to cue to a track not contained in the program.
Not Changed	Rehearsal play was canceled without any adjustment made to the cue point.
Program Full	An attempt was made to program a 100th track.
Time Full	An attempt was made to program tracks totaling more than 888 minutes of playing time.
CDP-D12	A CD is being loaded.
Welcome	The loaded CD is being read.
Remote ON	Control of the player by a control device connected to the CD player has begun.
Remote OFF	Control of the player by a control device connected to the CD player has ended.
Remote	An attempt was made to operate the CD player while a control device was controlling the player.

* "XX" indicates a track number.

Last mode memory

After playback finishes, after taking out the CD, and even after turning off the power, the player memorizes various settings. The following table shows the relationship between the settings that the player memorizes and the status of the player.

Setting that the player memorizes	After playback finishes	After taking out the CD	After turning off the power
Play mode (normal playback/Program Play/Shuffle Play)	Yes	Yes	Yes
Repeat play mode ¹⁾	Yes	Yes	Yes
Selection of Auto Cue or Auto Pause	Yes	Yes	Yes
Vari Speed Play	Yes	Yes	Yes
Sound output setting for search function	Yes	Yes	Yes
The contents of the program	Yes	No	Yes ²⁾
Marked point	Yes	No	No
Start point and end point of A-B Repeat Play	No	No	No
Music Scan	No	No	No
Lock/unlock status of the EJECT button.	Yes	Yes	Yes
Timer-activated playback	Yes	Yes	Yes
Threshold level setting for Auto Cue	Yes	Yes	Yes
Scanning time of each track for Music Scan	Yes	Yes	Yes
User settings for the PARALLEL connector	Yes	Yes	Yes

1) Repeat All Play or Repeat 1 Play only.

2) When the player is turned off while the CD is still loaded, only the first 24 tracks of the program are memorized.

Troubleshooting Guide

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help you remedy the problem. Should any problem persists, consult your nearest dealer.

Symptom	Cause	Remedy
"Disc Error" appears in the display.	There is abnormality in inserting the CD or the CD itself.	Take out the CD and check it.
The CD cannot be ejected by pressing the \triangle EJECT button.	There is abnormality in inserting the CD or the CD itself.	Keep pressing the \triangle EJECT button for about 8 seconds to take out the CD forcibly and check it.
There is no sound.	The connecting cables are not connected firmly.	Check the connection.
	The amplifier is not operated correctly.	Operate the amplifier correctly.
	The PHONE LEVEL control is turned down.	Turn the control clockwise to turn up the output to the headphones.
	The AC power cord is not connected firmly.	Check the connection.
The player does not play.	No disc is loaded.	Insert a CD.
	The CD is inserted with its label side down.	Insert it correctly.
	The CD is dirty.	Clean the CD.
	The condensation has formed inside the player.	Take out the CD and leave the player turned on for about an hour, then turn it off, and then turn it on again.
The remote does not work.	There is an obstacle between the player and the remote.	Remove the obstacle.
	The remote is not pointed towards the remote sensor.	Point the remote towards the player.
	The batteries inside the remote are drained.	Replace the batteries with new ones.
	The control S cable is connected to the CTRL-S IN connector of the player.	Remove the cable from the connector.

Specifications

System

Frequency response	20 Hz to 20 kHz (± 0.5 dB)
Signal-to-noise ratio	More than 98 dB
Harmonic distortion	Less than 0.006%
Channel separation	More than 87 dB (1 kHz)

Analog output

ANALOG OUT (BAL)

Terminal type	XLR-3-32 (male)
Maximum output level	+10/+24 dBu (selectable) (0 dBu = 0.775 Vrms)
Load impedance	More than 600 Ω

ANALOG OUT (UNBAL)

Terminal type	Phono jack
Maximum output level	+8 dBu (0 dBu = 0.775 Vrms)
Load impedance	More than 10 k Ω

PHONES

Terminal type	Stereo phone jack
Maximum output level	0 to 10 mW
Load impedance	32 Ω

Digital output

DIGITAL OUT OPTICAL

Terminal type	Optical connector
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DIGITAL OUT COAXIAL

Terminal type	Phono jack
Load impedance	75 Ω

General

Power requirements

Model for Europe:	230 V AC, 50/60 Hz
Model for the U.S.A and Canada:	120 V AC, 60 Hz

Power consumption

Model for Europe:	16 W
Model for the U.S.A and Canada:	18 W

Peak inrush current

- (1) Power ON, current probe method: 1 A (240 V)
- (2) Hot switching inrush current, measured in accordance with European standard EN55103-1: 1 A (230 V)

Dimensions

482 × 44 × 285 mm (19 × 1³/₄ × 11¹/₄ in.) (w/h/d) (approx.)

Mass

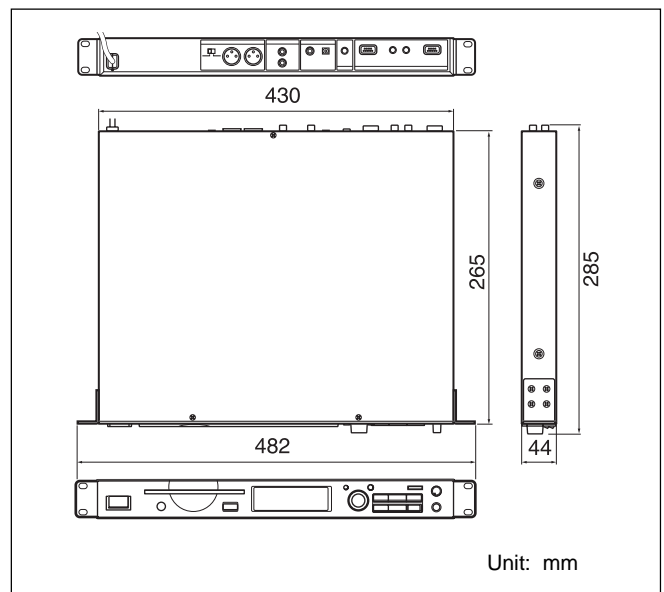
4.0 kg (8 lb. 13 oz.) (approx.)

Operating temperature

0°C to +40°C (32°F to 104°F)

Storage temperature

-20°C to +60°C (-4°F to +140°F)



Supplied accessories

- Remote controller (1)
- R6 (size-AA) batteries (2)
- Control S connecting cable (1)
- CD-ROM (1)
- Warranty booklet (1)

Design and specifications are subject to change without notice.