D01403220C

TASCAM

CD-RW900SX

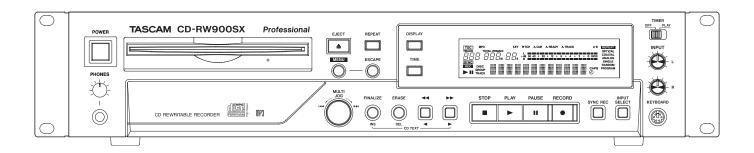
CD Rewritable Recorder

Professional

OWNER'S MANUAL



MP3







CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT **EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

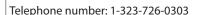
For U.S.A.

Supplier's Declaration of Conformity

Model Number: CD-RW900SX

Trade Name: TASCAM

Responsible party: TEAC AMERICA, INC. Address: 10410 Pioneer Blvd., Unit #1, Santa Fe Springs, California 90670, U.S.A





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.

INFORMATION TO THE USER

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.

- a) Reorient or relocate the receiving antenna.
- b) 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.

CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

IN USA/CANADA, USE ONLY ON 120 V SUPPLY.

For Canada

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMERIQUE DE LA CLASSE B EST CONFORME A LA NORME NMB-003 DU CANADA.



This product complies with the European Directives request and the other Commission Regulations.



This product complies with applicable UK regulations.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- **5.** Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 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.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. 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.



- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- **14.** Refer all servicing to qualified service personnel. Servicing isrequired 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.
- The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
- The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
- Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.
- If you are experiencing problems with this product, contact TEAC for a service referral. Do not use the product until it has been repaired.

WARNING

• Products with Class 1 construction are equipped with a power supply cord that has a grounding plug. The cord of such a product must be plugged into an AC outlet that has a protective grounding connection.

WARNING

To prevent possible hearing damage, do not listen at high volume levels for long periods.



CAUTION

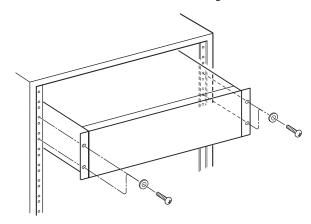
- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
- CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.
- Installed battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.

CAUTION

- DO NOT REMOVE THE EXTERNAL CASES OR CABINETS TO EXPOSE THE ELECTRONICS. NO USER SERVICEABLE PARTS
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT. CONTACT THE STORE WHERE YOU PURCHASED THE UNIT FOR A SERVICE REFERRAL. DO NOT USE THE PRODUCT UNTIL IT HAS BEEN REPAIRED.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

RACK-MOUNTING THE UNIT

Use the supplied rack-mounting kit to mount the unit in a standard 19-inch rack, as shown below. Remove the feet of the unit before mounting.



ATTENTION

- Leave 1U of space above the unit for ventilation.
- Allow at least 10 cm (4 in) at the rear of the unit for ventilation.

LASER INFORMATION

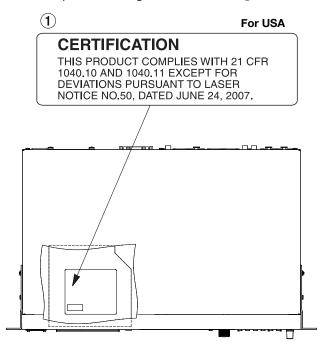
This laser product is a consumer laser product according to EN 50689:2021 and complies with all consumer laser product requirements except child appealing products.

This product contains a laser system and is classified as a CLASS 1 LASER PRODUCT according to IEC 60825-1:2014. This class does not require special attention in normal use. Do not take apart to prevent being exposed to the laser beam.

Notes on Laser Product

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown at \bigcirc .



ATTENTION

- DO NOT REMOVE THE PROTECTIVE HOUSING USING A SCREWDRIVER.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Optical pickup

Type: LO-DWU02E

Manufacturer: Lite-Space Technology Co., Ltd.

Laser output: Less than 86.0 mW on the objective lens (CD)

Less than 91.0 mW on the objective lens (DVD)

Wavelength: 785 nm (CD) typ. 661 nm (DVD) typ.

CAUTIONS ABOUT BATTERIES

This product uses batteries. Misuse of batteries could cause a leak, rupture or other trouble. Always abide by the following precautions when using batteries.

- Never recharge non-rechargeable batteries. The batteries could rupture or leak, causing fire or injury.
- When installing batteries, pay attention to the polarity indications (plus/minus (+/-) orientation), and install them correctly in the battery compartment as indicated. Putting them in backward could make the batteries rupture or leak, causing fire, injury or stains around them.
- When you store or dispose batteries, isolate their terminals with insulation tape or something like that to prevent them from contacting other batteries or metallic objects.
- When throwing used batteries away, follow the disposal instructions indicated on the batteries and the local disposal
- Do not use batteries other than those specified. Do not mix and use new and old batteries or different types of batteries together. The batteries could rupture or leak, causing fire, injury or stains around them.
- Do not carry or store batteries together with small metal objects. The batteries could short, causing leak, rupture or other trouble.
- Do not heat or disassemble batteries. Do not put them in fire or water. Batteries could rupture or leak, causing fire, injury or stains around them.
- If the battery fluid leaks, wipe away any fluid on the battery case before inserting new batteries. If the battery fluid gets in an eye, it could cause loss of eyesight. If fluid does enter an eye, wash it out thoroughly with clean water without rubbing the eye and then consult a doctor immediately. If the fluid gets on a person's body or clothing, it could cause skin injuries or burns. If this should happen, wash it off with clean water and then consult a doctor immediately.
- The unit power should be off when you install and replace batteries.
- Remove the batteries if you do not plan to use the unit for a long time. Batteries could rupture or leak, causing fire, injury or stains around them. If the battery fluid leaks, wipe away any fluid on the battery compartment before inserting new hatteries
- Do not disassemble a battery. The acid inside the battery could harm skin or clothing.

For European Customers

Disposal of electrical and electronic equipment and batteries and/or accumulators

- (a) All electrical/electronic equipment and waste batteries/ accumulators should be disposed of separately from the municipal waste stream via collection facilities designated by the government or local authorities.
- (b) By disposing of electrical/electronic equipment and waste batteries/accumulators correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.
- (c) Improper disposal of waste electrical/electronic equipment and batteries/accumulators can have serious effects on the environment and human health because of the presence of hazardous substances in the equipment.
- (d) The Waste Electrical and Electronic Equipment (WEEE) symbols, which show wheeled bins that have been crossed out, indicate that electrical/ electronic equipment and batteries/accumulators must be collected and disposed of separately from household waste.



If a battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) as defined in the Battery Directive (2006/66/EC, 2013/56/EU), then the chemical symbols for those elements will be indicated beneath the WEEE symbol.



(e) Return and collection systems are available to end users. For more detailed information about the disposal of old electrical/electronic equipment and waste batteries/ accumulators, please contact your city office, waste disposal service or the shop where you purchased the equipment.

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1 - Introduction

Thank you for your purchase of the TASCAM CD-RW900SX CD rewritable recorder.

Before using this unit, read this Owner's Manual carefully so that you will be able to use it correctly and enjoy working with it for many years. After you have finished reading this manual, please keep it in a safe place for future reference.

You can also download this Owner's Manual from the TASCAM website.



CD-RW900SX

https://tascam.jp/int/product/cd-rw900sx/ docs

Included items

This product includes the following items.

Take care when opening the package to avoid damaging the items. Keep the packing materials for transportation in the

Please contact the store where you purchased this unit if any of these items are missing or have been damaged during transportation.

Main unit	X
Power cords	x 1
RC-RW900 remote control unit	x 1
• AAA batteries for the remote control unit	x 2
Rackmount screw kit	x 1
TASCAM ID registration guide	x 1
• Owner's Manual (this document) including warra	ntyx

Conventions used in this manual

In this manual, we use the following conventions:

• As necessary, additional information is provided under TIP, NOTE and CAUTION headings.

TIP

These are tips about how to use the unit.

NOTE

These provide additional explanations and describe special cases.

ATTENTION

Failure to follow these instructions could result in damage to equipment or lost data, for example.

⚠ CAUTION

Failure to follow these instructions could result in injury.

Trademarks

- TASCAM is a registered trademark of TEAC Corporation.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- Other company names, product names and logos in this document are the trademarks or registered trademarks of their respective owners.

Information is given about products in this manual only for the purpose of example and does not indicate any guarantees against infringements of third-party intellectual property rights and other rights related to them. TEAC Corporation will bear no responsibility for infringements on third-party intellectual property rights or their occurrence because of the use of these products.

With the exception of personal enjoyment and similar uses, copyrighted materials belonging to third parties cannot be used without permission from the rights holders in accordance with copyright law. Please use the equipment appropriately.

TEAC Corporation will bear no responsibility for rights infringements committed by users of this product.

Precautions for placement and use

- The operating temperature range of this unit is 5–35 °C.
- Do not install this unit in the following types of locations. Doing so could make the sound quality worse or cause malfunction.

Places with significant vibrations

Next to a window or in another location exposed to direct

Near heaters or other extremely hot places

Extremely cold places

Very humid or poorly ventilated places

Very dusty places

- Make sure that the unit is mounted in a level position for correct operation.
- To enable good heat dissipation, do not place anything on top of the unit.
- Do not place this unit on top of a power amplifier or other device that generates heat.

Notes about power supply

- Insert the included power cord all the way into the AC IN connector.
- Do not connect a power supply other than one that is AC100V - 240V (50/60Hz).
- Hold the power cord by its plug when connecting or disconnecting it.

1 – Introduction

Beware of condensation

Condensation could occur if the unit is moved from a cold place to a warm place, it is used immediately after a cold room has been heated or it is otherwise exposed to a sudden temperature

To prevent this, or if this occurs, let the unit sit for one or two hours at the new room temperature before using it.

Cleaning the unit

Use a dry soft cloth to wipe the unit clean. Do not wipe with chemical cleaning cloths, thinner, alcohol or other chemical agents. Doing so could damage the surface or cause discoloration.

About compact discs

In addition to commercially-available music CDs, this unit can play CD-R and CD-RW discs that have been recorded in audio CD (CD-DA) format, as well as CD-R and CD-RW discs that have MP3 and WAV audio files recorded on them.

ATTENTION

8cm CDs cannot be used with this unit. If an 8cm CD is loaded, it will be automatically ejected. If it stops ejecting before it can be removed, press the EJECT key.

Precautions for use

• For recording, use compact discs that have one of the following marks.





CD-RW







- Always insert the compact discs in the slot with their label facing upward.
- To remove a disc from its case, press down on the center of the disc holder, then lift the disc out, holding it carefully by
- Do not touch the signal side (the unlabeled side). Fingerprints, oils and other substances can cause errors during playback.
- To clean the signal side of a disc, wipe gently with a soft dry cloth from the center towards the outside edge. Dirt on discs can lower the sound quality, so clean them and always store them in a clean state.
- Do not use any record spray, anti-static solutions, benzene, paint thinner or other chemical agents to clean CDs as they could damage the delicate playing surface. It may cause CDs to become unplayable.

- Do not apply labels or other materials to discs. Do not use discs that have had tape, stickers or other materials applied to their surface. Do not use discs that have sticky residue from stickers, etc. Such discs could become stuck in the unit or cause it to malfunction.
- Never use a commercially available CD stabilizer. Using stabilizers with this player will damage the mechanism and cause it to malfunction.
- Do not use cracked discs.
- Only use circular compact discs. Avoid using non-circular promotional, etc. discs.









- Music discs with copy control, a copy-protection system, have been released from several record companies in an attempt to protect the copyright. Since some of these discs do not comply with the CD specifications, they may not be playable on the unit.
- If you are in any doubt as to the care and handling of a CD-R and CD-RW discs, read the precautions supplied with the disc, or contact the disc manufacturer directly.

About CD-R and CD-RW discs

CD-R discs can be recorded once only. Once they have been used for recording, they cannot be erased or re-recorded. However, if space is available on the disc, additional material can be recorded. By finalizing a CD-R that you have finished using for recording, you can make it playable by most ordinary CD players. (Some CD players might not be able to play back CD-R discs even if they are finalized.)

CD-RW discs allow recorded tracks to be erased to make space available again, allowing disc reuse. However, tracks can only be erased in the order from the last added. To erase a track in the middle, you must erase all the tracks added after it at the same time. Finalized CD-RW discs can only be played back in CD players that support CD-RW disc playback.

About finalizing

Although audio data may be written on a CD-R or CD-RW disc, a standard CD player will not be able to read the data (i.e. play back the audio) until a final *TOC has been written at the start of the disc.

* TOC:Table of contents

Information of recorded data, which contains titles, starting and ending addresses, and etc..

The process of writing this table of contents is known as "finalizing". Once this has been done, no further data can be written to the disc. See "Finalizing" on page 27 for details. In the case of a CD-RW disc which has been finalized, the whole of the disc may be erased, or the disc may be "refreshed", and the disc re-used.

In addition, a CD-RW disc that has been finalized may be "unfinalized", i.e. only the TOC is removed. This allows further tracks to be recorded to the disc, provided that there is space on the disc.

Recordable discs

In this manual, we use the term "recordable" disc to describe a CD-R or CD-RW disc that has not been finalized, i.e. further recording is possible on the disc.

Slot loading of discs







- As shown in the illustration, hold the disc with the labeled side up and insert it part way into the slot.
- Push the disc in a little further and it will be pulled in automatically just before it disappears into the slot.

Trouble inserting a disc

If the disc becomes stuck during insertion, for example, and is difficult to push, do not try to force the disc in. Pull the disc out once and press the EJECT key and then try inserting it again. (Trying to force the disc in could damage the unit.)

Use of the remote control unit

- Do not expose the infra-red receiver (light receptive area on the front panel) to direct sunlight or intense light for extended periods of time. Long exposure to this light may result in failure of the remote control sensor.
- When the remote control will not be used over one month, please remove the batteries to prevent the possibility of battery acid leakage which could damage the unit. Should leakage occur, remove and discard the batteries, and wipe the battery case thoroughly with a cloth. Avoid getting the battery liquid on the skin. After cleaning, replace with new batteries.
- The remote control functions by using an infrared light signal. When using the unit to control the CD-RW900SX, other devices that are turned on could be operated by its
- If the range of remote operation becomes smaller, or commands do not always function properly, the batteries have become weak and should be replaced. Always replace both batteries with new batteries of the same type.
- Point the remote control to the remote sensor on the main unit. Do not obstruct the path between the remote control and the remote sensor.

Batteries

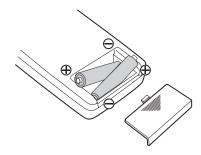
If batteries are used improperly, or if leakage or breakage occurs, the unit will not function.

Please observe the cautions indicated on the batteries and their packaging to ensure proper usage.

- Confirm ⊕ and ⊝ polarity and follow the indications when inserting new batteries into the remote control.
- Do not use old and new batteries together.
- Even if the battery is the same size, the voltage may differ. Do not use batteries of different specifications together.
- Do not attempt to recharge batteries that are nonrechargeable.
- Do not open or disassemble batteries, throw them into a fire or put them in water.

Inserting batteries

- 1. Open the lid.
- Confirm \oplus / \ominus polarity, and insert two AAA batteries.
- 3. Close the lid.



1 - Introduction

About TASCAM customer support service

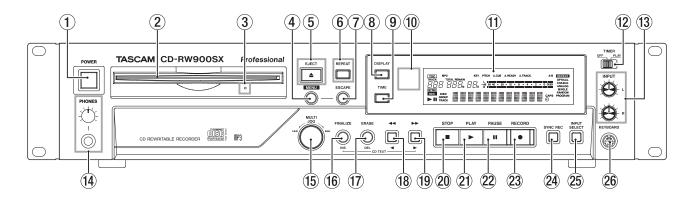
TASCAM products are supported and warrantied only in their country/region of purchase.

To receive support after purchase, on the TASCAM Distributors list page of the TEAC Global Site (https://teac-global.com/), search for the local company or representative for the region where you purchased the product and contact that organization.

When making inquiries, the address (URL) of the shop or web shop where it was purchased and the purchase date are required. Moreover, the warranty card and proof of purchase might also be necessary.

2 - Features of the CD-RW900SX

Front panel



1 POWER switch

The power switch is used to switch the unit on and off.

(2) Disc insertion slot

Insert CDs here.

After a disc is inserted part way, it will automatically be pulled in.

③ Disc force ejection (emergency) hole

If pressing the EJECT key does not eject the disc because the CD drive is not functioning, for example, use this to force the disc to eject. (see "Force disc ejection" on page 12)

ATTENTION

Only use this in an emergency. Turn the unit off before using

4 MENU key

Use this key to call up the menu options. (see "Operation basics" on page 16)

(5) EJECT key

Use this key to eject the currently loaded disc. The display shows "Disc Eject".

(6) REPEAT key

Use this key to set the repeat playback mode on and off.

(7) ESCAPE key

When in a menu mode, this key cancels the menu item selected.

(8) DISPLAY key

Use this key to see the current disc title when the disc is stopped. When the disc is playing or in ready mode, press this key to see the current track title.

(9) TIME key

Use this key to cycle through the time modes shown on the display. (see "Time display switching" on page 20)

10 REMOTE SENSOR

This is the sensor for the remote control unit. Make sure that there is a clear path from the remote control unit to the sensor.

(1) Display

The display is used to show the current status of the unit, as well as the current menu settings.

12 TIMER switch (PLAY, OFF)

Using this key switches Timer play on and off. See "Timer playback" on page 20 for details.

(13) INPUT (L,R) controls

Use these concentric controls to adjust the level of the analog audio signals received at the ANALOG IN jacks.

PHONES jack and the level control

Use a standard pair of stereo headphones, equipped with a 1/4-inch plug, with this jack.

Adjust the volume from the jack with the level control (turn clockwise for higher volume).

(15) MULTI JOG dial

Use this dial to select tracks for playback, to set parameter values.

In addition, pushing the dial acts like an ENTER key, i.e. the currently-displayed value or setting is confirmed.

16 FINALIZE/INS kev

Use this key to finalize recordable discs. (see "Finalizing" on

It also acts like a space key when entering TEXT data. (see "Title input operation" on page 29)

(17) ERASE/DEL key

Use this key (with CD-RW discs only) to erase tracks, or a whole disc, or to refresh a "bad" disc, or to unfinalize a finalized disc. (see "Erasing" on page 28)

It also acts like a delete key when entering TEXT data. (see "Title input operation" on page 29)

(18) ◀◀ / ◀ key

Use this key to operate review playback (search) while in playback or ready modes.

When Directory search is on, and when stopped, using this key selects the directory.

This key also moves the cursor in the left direction when entering TEXT data.

(19) **►► / ► key**

Use this key to operate cue playback (search) while in playback or ready modes.

When Directory search is on, and when stopped, using this key selects the directory.

This key also moves the cursor in the right direction when entering TEXT data.

2 - Features of the CD-RW900SX

20 STOP key

Use this key to stop playback or recording.

21 PLAY key

Use this key to start or resume playback or recording.

22 PAUSE kev

Use this key to standby for playback or recording.

23 RECORD key

Use this key to enter record ready mode (see "Basic recording" on page 24) and also to enter manual track divisions. (see "Manually divide track" on page 26)

24 SYNC REC key

Use this key to turn synchronized recording on and off before starting to record. (see "Synchronized recording" on page

25 INPUT SELECT

Use this key to select the different audio inputs and the input combinations. (see "Input selection" on page 23)

(26) KEYBOARD jack

An IBM PC-compatible keyboard with PS/2 interface can be connected to this terminal to enable certain operations of the CD-RW900SX with the keyboard. Title input operations, in particular, can be performed with greater efficiency.

Force disc ejection

If pressing the EJECT key does not eject the disc because the CD drive is not functioning, for example, you can use the disc force ejection (emergency) hole to force the disc to eject.

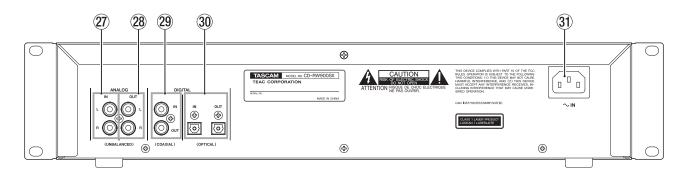
Turn the unit off before forcing the disc to eject using the following procedures.

- 1. Use a paper clip or other fine pin-like tool.
- Insert the pin into the disc force ejection (emergency) hole as far as possible and repeat several times.
- After the disc is ejected partway, pull it out by hand.

ATTENTION

- This function is provided for emergencies. Follow the usual procedures for ejecting discs normally.
- Never force disc ejection when the power is on.

Rear panel



② ANALOG IN (UNBALANCED) (L, R)

These RCA jacks accept analog audio signals from suitablyequipped units (at -10 dBV).

(28) ANALOG OUT (UNBALANCED) (L, R)

These RCA jacks output analog audio signals (at -10 dBV levels) to suitably-equipped units.

(29 DIGITAL COAXIAL (IN, OUT)

These two RCA jacks accept and output digital audio in standard consumer format (SPDIF).

③ DIGITAL OPTICAL (IN, OUT)

These two TOSLINK optical connectors accept and output digital audio using optical fiber connectors.

(31) AC IN jack

Connects the power cable supplied.

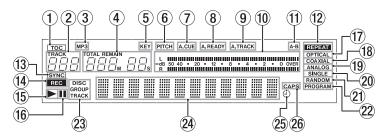
Connections

The following should be noted when you connect the unit to other equipment.

- It is possible to connect the unit's DIGITAL COAXIAL IN, DIGITAL OPTICAL IN and ANALOG UNBALANCED INs (L, R) to other equipment at the same time. However, the unit can receive signals from only one digital input at a time.
- Currently selected input jack is shown on the display.
- Audio signals output from the unit are output from the analog ANALOG OUT jacks, as well as from the DIGITAL COAXIAL OUT jack and DIGITAL OPTICAL OUT connector simultaneously (but not from the digital outputs in stop mode).

2 - Features of the CD-RW900SX

Display



This display shows various types of operation information, including CD disc information, deck operation modes, and menu status.

(1) TOC

The TOC indicator lights up red when a loaded disc contains TOC (Table of Contents) data.

(2) Track number display

During playback or selection, the track number is displayed. When Incremental playback is on, and when in playback or playback ready mode, the TRACK indicator blinks.

(3) MP3

The MP3 indicator lights when a MP3 disc is in the deck.

(4) Counter display

Depending on the time display mode, "TOTAL" or "REMAIN" are lit. The counter display indication are in minutes (three digits) and seconds (two digits).

The KEY indicator lights when Key Control is on.

6 PITCH

The PITCH indicator lights when Pitch Control is on.

(7) A.CUE

The A.CUE indicator lights when Auto Cue is on.

(8) A.READY

The A.READY indicator lights when Auto Ready is on.

(9) A.TRACK

The A.TRACK indicator lights when the Auto Track is on.

10 Meter

This displays the playback level, as well as the input level of the source device.

(11) **A-B**

The A-B indicator lights when the A-B repeat function is on. Also, this flashes until a "B-point" is entered.

(12) REPEAT

The REPEAT indicator lights when the Repeat function is on.

(13) SYNC

The SYNC indicator lights up when SYNC is on.

(14) **REC**

When the SRC function is on, this lights during recording, or in recording standby mode.

When the SRC function is off, this flashes during recording, or in recording standby mode.

(15) ► (PLAY)

This lights during playback, and also blinks during Auto Cue point search.

(16) **II** (PAUSE)

This lights during playback or recording standby mode.

(17) OPTICAL

The OPTICAL indicator lights when the input source is set to optical.

(18) COAXIAL

The COAXIAL indicator lights when the input source is set to coaxial.

(19) ANALOG

The ANALOG indicator lights up when the input source is set to analog.

20 SINGLE

The SINGLE indicator lights when Single Playback mode is

(21) RANDOM

This RANDOM indicator lights when Random Playback mode is set.

22 PROGRAM

The PROGRAM indicator lights when Program Playback mode is set.

23 DISC, GROUP, TRACK display

The DISC indicator lights up when a disc loaded and is stopped.

The GROUP indicator lights up when MP3 Directory playback mode is on.

The TRACK indicator lights up during playback or recording, also during playback or recording standby mode.

② Character display

Disc information, track information, menu, message, time, and operation status are displayed here.

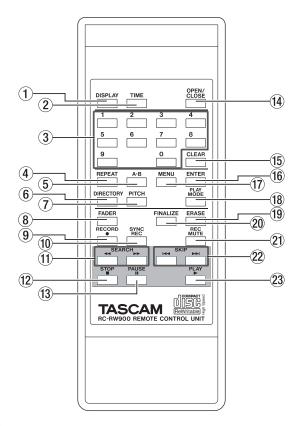
25 (TIMER)

This lights when the Timer Play function is on.

The CAPS indicator lights during title input to indicate CAPS mode is on. In lower case letter mode, there is no indication.

2 – Features of the CD-RW900SX

RC-RW900 Remote control unit



1 DISPLAY key

Press this key to see the current disc title when the disc is stopped, or the current track title while in playback or ready mode.

When entering TEXT data, using this key switches the text characters.

(2) TIME kev

Press this key to cycle through the time display modes.

③ Number keys (0 through 9)

Use these keys for direct entry of track numbers when playing back, or making a programmed play list.

4 REPEAT key

Changes between the various repeat modes when playing back. (see "Repeat playback" on page 20)

(5) **A-B key**

Sets the A to B repeat points and playback mode. (see "A to B repeat playback" on page 20)

⑥ DIRECTORY key

Use this key to switch MP3 file directory playback on and off.

(7) PITCH key

Switches pitch control on and off.

(8) FADER key

Use this key to start fade-in recordings or to start a fade-out when recording. (see "Fade-in and fade-out recording" on page 24)

(9) RECORD key

Use this key to enter record ready mode.

(10) SYNC REC key

Use this key to turn synchronized recording on and off. (see "Synchronized recording" on page 24)

(1) SEARCH keys (◄◄ / ►►)

Use these keys to move the playback position inside a track.

(12) STOP key

Use this key to stop playback or recording.

(13) PAUSE key

Use this key to standby for playback or recording.

(14) OPEN/CLOSE key

Ejects the loaded disc from the unit.

(15) CLEAR key

Clears a mistaken entry made with the number keys. In the program mode, pressing this key cancels the program entered at the last.

It also acts like the ESCAPE key in the Menu mode.

(16) ENTER key

Pressing this key is equivalent to pressing the MULTI JOG dial to confirm an entry.

(17) MENU kev

Switches the menu mode on or off.

(18) PLAY MODE key

Use this key to choose between the different playback modes (single play, continue play, etc.).

(19) ERASE key

Erases tracks (CD-RW discs only), or a whole disc, or to refresh a "bad" disc, or to unfinalize a finalized disc. (see "Erasing" on page 28)

20 FINALIZE kev

Finalizes recordable discs. (see "Finalizing" on page 27)

(21) REC MUTE key

Use this key when recording, to mute the input signal for about four seconds and then to enter record ready mode. (see "Rec mute function" on page 26)

② SKIP (|◄◄ / ▶► |) keys

Use these keys to move between tracks when playing back (equivalent to rotating the MULTI JOG dial).

23 PLAY key

Use this key to start playback, or enter record mode from record ready mode.

3 - Menu operation

The various settings and editing operations possible with the CD-RW900SX are performed through menu options shown on the display. Among the many menu setting options, some may be made directly using the keys on the remote control.

Menu configuration

The menus are configured as shown below. Please see the reference page for more details of each menu.

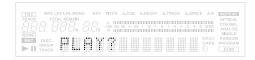
Menu option	Sub-Menu option	Function	Reference page	
	PLAY MODE	Playback mode settings	page 19 ("Playback modes")	
	PITCH	Pitch control mode on/off	page 21 ("Pitch control function")	
	PITCH CONT	Pitch control setting		
	PITCH STEP	Pitch control variable pitch setting		
	KEY	Key control mode on/off	none 21 ("Voy control from the p")	
DL AV	KEY LEVEL	Key control level setting	page 21 ("Key control function")	
PLAY	DIRECTORY	MP3 disc directory mode on/off	page 22 ("Playing back MP3 files")	
	MP3 ACTION	MP3 disc playback error setting	page 22 ("MP3 action settings")	
	READ SPEED	data reading speed setting	page 17 ("Simple playback operations")	
	A_READY	Auto ready on/off	page 21 ("Auto Ready function")	
	A_CUE	Auto cue on/off	21 (//A t C F ti //)	
	A_CUE LEVEL	Auto Cue level setting	page 21 ("Auto Cue function")	
	VOLUME	Input level setting	page 23 ("Input selection")	
	FADE IN	Fade-in time setting	24///5 1 : 16 1 : //	
	FADE OUT	Fade-out time setting	page 24 ("Fade-in and fade-out recording")	
DEC	SRC	Sampling rate converter on/off	page 23 ("Frequency conversion")	
REC	SYNC LEVEL	Sync recording operating level	page 25 ("Sync recording")	
	A_TRK	Auto track on/off	page 26 ("Automatic track division")	
	A_TRK LEVEL	Auto track operating level		
	A_TRKTIME	Auto track operating time		
TEXT	TEXT EDIT	Text setting	page 29 ("Title input operation")	
	KEYBOARD	Setting for keyboard type	page 30 ("Keyboard type setting")	
	PLAY TIME	Display total playing time	page 17 ("Simple playback operations")	
SYSTEM	REC TIME	Display total recording time	page 24 ("Basic recording")	
	IR REMOTE	Remote control setting	16 (#On austinus la acias#)	
	F_PRESET	Reset to the factory setting	page 16 ("Operation basics")	

3 – Menu operation

Operation basics

1. Select the desired menu option.

Press the MENU key on the front panel or remote control to call up the desired menu. The menu option PLAY will be shown on the display at first.



Front panel operation:

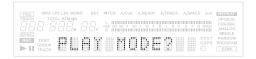
Rotate the MULTI JOG dial to select the desired menu option, then push the dial to confirm.

Remote control operation:

Use the SKIP key to cycle through the different menu options, then press the ENTER key to confirm.

The sub-menu option screen of the selected menu will be displayed.

If the PLAY menu option is selected, the sub-menu option shows up like this:



NOTE

Return to the menu option selection screen, press the ESCAPE key on the front panel or the CLEAR key on the remote control.

2. Select the desired sub-menu.

Front panel operation:

Rotate the MULTI JOG dial to select the desired submenu, then push the dial to enter the selection.

Remote control operation:

Use the SKIP key to select, then press the ENTER key.

The menu item screen of the selected sub-menu will appear. If the sub-menu PLAY MODE is selected, the menu item shows up like this:



NOTE

To return to the sub-menu option selection screen, press the ESCAPE key on the front panel or the CLEAR key on the remote control.

3. Setting the desired menu item or value.

Front panel operation:

Use the MULTI JOG dial to select the desired menu item or value. Pushing the dial enters and exits menu mode.

Remote control operation:

Use the SKIP key. Pressing the ENTER key confirms and exits menu mode.

NOTE

Some menu options exist for confirmation purposes only, and the setting cannot be changed.

How to exit menu mode after setting (or confirmation), during menu option display.

Front panel operation:

As well as pushing the MULTI JOG dial, you can use the MENU key to exit menu mode.

Remote control operation:

Press the ENTER key to exit menu mode.

NOTE

The selected menu mode remains after power is turned off, except the TEXT menu.

To reset all the settings and return to the factory setting, use the F_PRESET sub-menu in the SYSTEM menu option. It should only be used when a disc is not loaded.

When IR REMOTE is set to Disable, some functions can not be operated using the remote control. On the other hand, set to Enable allows any operation using the remote control.

The CD-RW900SX can be used to play back CDs (including CD-R and CD-RW discs that have been recorded and finalized on other types of recorder), as well as CD-R discs and CD-RW discs that have been recorded on the unit.

Audio files in MP3 format on CD-ROM, CD-R and CD-RW are also playable on the unit.

Discs for playback

The CD discs in the CD-RW900SX can play back the types of discs listed below.

- Commercial pre-recorded CDs recorded in CD-DA format.
- CD-R and CD-RW discs that have been recorded in CD-DA format and finalized properly.
- MP3 files recorded in ISO9660 level 1 and level 2 format on CD-R and CD-RW discs, and properly finalized. MP3 files that are recorded to a disc with Joliet format extensions are also playable.

Simple playback operations

⚠ CAUTION

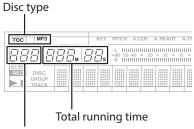
If you are monitoring using headphones, first adjust the level control to low on the unit, then connect to the PHONES jack before playing back. This will prevent any possible damage to your hearing.

NOTE

The explanation in this manual will assume the user is starting from the normal Continuous mode.

- 1. Press the POWER switch to turn on the unit.
- 2. Insert a disc into the unit with the label side up. The display shows "Disc Loading". Then "TOC Reading" will appear with the period flashing. When the TOC has been read, the display shows the

number of tracks and total running time of the disc.



Total number of tracks

The CD-RW900SX also shows one of the following:

TOC: A disc finalized

MP3: A disc contains MP3 files

3. Press the PLAY key to start playback. Adjust the connected monitor system, or the level control for the PHONES on the unit to set the listening level you desire.

NOTE

If a disc has scratch or grime, it could cause the laser pickup to "skip." In this case, set the READ SPEED sub-menu in the PLAY menu option to "High". (see "Operation basics" on page

This may resolve the problem, however, the unit's running sound may become louder.

To stop playback, press the STOP key. To temporarily stop playback and enter playback standby mode, press the PAUSE key. To resume playback, press the PLAY key again.

NOTE

To confirm the total playing time, use the PLAY TIME option in the SYSTEM sub-menu (see "Operation basics" on page 16).

Track selection

Using the skip function

Skipping track numbers backward or forward.

- 1. Select desired tracks for playback with the MULTI JOG dial on the front panel. Turning clockwise skips the track number backward and counterclockwise skips forward. Or, press the SKIP key on the remote control. Pressing I◀◀ key skips the track number backward and ►► key skips
- Press the PLAY key to start playback. Or, press the PAUSE key to cue the track and enter playback standby mode after moving to the head of the selected track. To start playback, press the PLAY key.

Selecting by track number

Using the number keys on the remote control, the number of the desired track can be entered directory. Even numbers with two or three digits can be entered easily. For example:

Track 9: press '9' and 009 will be displayed.

Track 12: press '1' and '2' and 012 will be displayed.

Track 103: press '1' and '0' and '3' and 103 will be displayed.

After input, press the PLAY key to start playback. Or, the PAUSE key to cue the track at its head position and enter playback standby mode.

You can also enter the track number and start playback by pushing the MULTI JOG dial or using the ENTER key.

This function cannot be used in Program or Random mode.

Track search

Normal search

Press the ◀◀/▶▶ search key continuously on the front panel, or the SEARCH ◀◀/▶▶ key on the remote control.

To stop the search function, simply release the ◀◀/▶▶ or the SEARCH key.

NOTE

The search function does not operate with MP3 discs.

Direct search

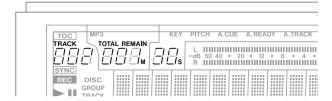
By specifying time from the start of a certain track, you can start playback from a specified point of a specified track.

Basic operation

During stop, play or playback standby modes, use the number keys on the remote control to input the three-digit track number (such as 002 for track 2), then the desired elapsed time (***min **sec) from the start of that track.

Example: To specify 1 min 30 sec from the start of track 2, input "002 001 30".

During input, the counter in the display will flash.



NOTE

Regardless of the time display mode. (see "Time display switching" on page 20)

the time from the start of the specified track is displayed.

Pressing the CLEAR key cancels the input at any stage during input.

During stop or playback modes, when the final digit is entered, the desired position is automatically located and playback will begin from the desired point. During playback standby mode, at the desired point the unit will enter playback standby mode.

If a point which does not exist is entered, Direct Search time entry mode will be cancelled.

The direct search function cannot be used in program or random mode.

For MP3 discs, time cannot be specified within a track. However, if you input the three-digit track number, playback will begin from the start of that track.

Operation variations

Even if the final "seconds" time value is not input, playback will begin from the selected "minutes" time after pressing the ENTER or PLAY key. Or, if you press the PAUSE key, the unit will enter the playback standby mode at the selected point.

Specifying a track number only

After inputting the track number, press the ENTER or PLAY key to begin playback of that track, or the PAUSE key to cue the track and enter playback standby mode.

NOTE

Instead of inputting the three-digit track number, you can input only the desired track number.

Example: To specify track 3, input only "3".

Specifying to the minute

After inputting the three-digit track number and the number of minutes after the start of the track, press the ENTER or PLAY key to begin playback of that track, or the PAUSE key to cue the track and enter playback standby mode.

Example: To specify 1 min 00 sec from the start of track 2, input "002 001"

NOTE

Following the above example, if "0021" is input, the same position will be located.

Playback modes

There are four different playback modes. The selected mode will be indicated on the left of the display.

- Continuous playback mode (default setting): no indication
- Single playback mode: SINGLE is lit
- Program playback mode: PROGRAM red lamp is lit
- Random playback mode: RANDOM red lamp is lit

The playback mode can be selected using the PLAY MODE key on the remote control unit. Pressing the key changes the playback mode on the display in the following order:

Continue → Single → Program → Random

You can also select the playback mode using the PLAY MODE option in the PLAY sub-menu. (see "Operation basics" on page

Turning the MULTI JOG dial clockwise changes the playback mode shown on the display in the following order:

Mode>Cont → Mode>Single → Mode>Program → Mode>Random

Pressing the MENU key or pushing the MULTI JOG dial returns to normal mode from the menu mode.

While the mode can be changed from any playback mode, the explanation in this manual will assume the user is starting from the Continuous mode.

NOTE

The selected playback mode remains after power is turned off. However, the program playback mode will be cleared to "Continuous" mode when the power is turned off.

Continuous playback

Programing is cancelled, and playback continues in the normal order.

- When stopped, set the mode to display Continue or Mode>Cont.
- Press the PLAY key to begin playback in order of the track

Single-track playback

This function enables playback of just a single track.

- When stopped, set the mode to display Single or Mode>Single.
- Use the SKIP key or the number keys (0~9) on the remote control to select the desired track. The MULTI JOG dial can be used to select the track also.
- Press the PLAY key to begin playback. After the selected track finishes, playback stops.

Program playback

This function enables playback of selected tracks in any desired order. Up to 99 tracks can be selected for program playback.

- When stopped, set the mode to display Program or Mode>Program.
- Use the number keys (0~9) on the remote control unit to select each desired track for program playback, then press the ENTER key.

You can also rotate the MULTI JOG dial to select the track number and push to enter.

The track number will be entered into the program. Repeat the above step 2 until the desired program is

As the program is being created, the program number and total program playing time is revised on the display.

NOTE

If the CLEAR key is pressed, the programmed track will be deleted from the last.

When program setting is completed, press the PLAY key to begin playback of the tracks in the programmed order.

NOTE

If the STOP key is pressed without first pressing the PLAY key, all the program data will be erased.

When stopped, if the playback mode is switched to another, all the program data will be erased.

The programmed play order is not memorized when power is turned off.

In this mode, if there are no tracks programed, the CD-RW900SX will not start playback.

If an attempt is made to enter more than 100 program steps, the message PGM Full! appears on the display.

If the total program playing time exceeds 999 min 59 sec, ---: -- appears on the display.

Random playback

In this mode, the unit will play back all the tracks on the disc in completely random order, regardless of track number. When stopped, set the mode to display Program or Mode>Random.

Press the PLAY key and random playback will begin.

Even when the power is turned off, the unit will remain in Random mode

Time display switching

When the TIME key on the front panel or the remote control is pressed, the time display will switch through several modes on the display.

- Elapsed track time (no display light indication)
- Remaining track time ("REMAIN" is lit in the display)
- Elapsed disc time ("TOTAL" is lit in the display)
- Remaining disc time ("TOTAL" and "REMAIN" are lit in the display)

When stopped, the total recording time is shown, regardless of the status of the TOTAL and REMAIN indicators.

In program mode, pressing the TIME key displays the elapsed and the remaining time of the whole program.

When playing an MP3 disc, elapsed track time is always displayed, and the TIME key cannot be used.

For details on time display during recording, please refer to "Time display while recording" on page 24.

Even when power is turned off, the time display mode setting

Timer playback

By using an external timer, you can set the CD-RW900SX to play the loaded disc automatically when the unit is turned on by the timer.

- First, plug the power cord of the CD-RW900SX into the power outlet of the timer.
- Load a disc into the unit.
- 3. Switch the TIMER switch on PLAY to enable timer function on for the desired deck.

When Timer playback has been turned on, the timer icon lights up in the display.



NOTE

The indicator flashes when a disc is not loaded into the unit.

Set the timer to the desired time. Consult the timer's operation manual for details. At the set time, the power to the CD-RW900SX will be turned on, and playback will automatically begin.

Repeat playback

- 1. Press the REPEAT key to turn on the repeat mode. In this mode, all the tracks on the disc are played continuously. The display shows "Repeat ON" and the indicator lights up "REPEAT".
 - During playback, if the repeat mode is turned on, playback continues as before, and when the last track finishes, playback resumes from the first track.
 - If the repeat mode is turned on when the deck is stopped, press the PLAY key to begin operation.
- 2. Press the REPEAT key again to turn off repeat mode. Repeat OFF appears then the REPEAT indicator turns off.

NOTE

Combining the repeat mode with the program, Singletrack playback and Random playback functions will enable Program repeat, Single-track repeat and Random repeat operations, respectively.

Settings for the repeat playback mode remain after power is turned off, except the specified A-B section. (see "A to B repeat playback" on page 20)

A to B repeat playback

If a specific portion between two points on the disc is specified, that portion can be played back repeatedly.

- During playback, press the A-B key on the remote control at the beginning of the desired portion on the disc. The REPEAT indicator lights up in the display and the Aindicator will flash.
- At the end of the desired portion on the disc, press the A-B

Then, the REPEAT and A-B indicators light up in the display, and the desired A-B section will be played back repeatedly.

NOTE

You can also operate this function during playback standby.

3. To cancel the A-B repeat mode and resume normal playback, press the A-B key once again. The REPEAT and A-B indicators will turn off.

NOTE

A-B repeat cannot be used when the specified A-B section spans more than one track, and cannot be used with MP3

When the STOP key is pressed, the specified A-B section is cancelled.

Auto Cue function

Using the auto cue function, you can select a cue point where sound begins (not where a track begins) within a track.

Turn the auto cue function on and use the A_CUE LEVEL submenu option (see "Operation basics" on page 16) to set the sound detection level (-24, -30, -36, -42, -48, -54, -60, -66 and -72 dB).

Then, select a track and press the PLAY key. The unit enters playback ready mode.

When the PLAY key is pressed again, playback begins at exactly the cue point.

While the auto function is on, the A.CUE indicator lights up on the display.

Auto Ready function

This function allows the playing back a single track, and the automatic cuing of the next track ready for playback. Use the A_READY sub-menu option to turn the function on or off. When on, the A.READY indicator lights up on the display. Combined with Auto Cue function, the unit enters playback ready mode at the point where the sound detection level is set in A_CUE LEVEL sub-menu option of the next track.

Pitch control function

When playing back an audio CD, the pitch (or speed) of the playback can be varied. Pitch can be varied +/- 16%.

- When stopped, press the PITCH key on the remote control to turn on the Pitch control function.
 - Or, use the PITCH option in the PLAY sub-menu. (see "Operation basics" on page 16)
 - The current pitch value appears on the display for seconds and the PITCH indicator will light up.
- Press the MENU key and select the PITCH CONT option in the PLAY sub-menu to set the desired value and push the MULTI JOG dial to enter.

"Pitch>XXX" will appear on the display.

Then, rotate the MULTI JOG dial to set the desired value.

NOTE

Use the PITCH STEP option in the PLAY sub-menu to adjust the pitch value steps from 0.1% to 1.0% in 0.1% increments (default: 0.1%).

Press the MENU key or push the MULTI JOG dial to enter and return to normal mode.

During playback, the pitch control playback can be disabled temporarily. Press the PITCH key on the remote control or use the PITCH option in the PLAY sub-menu to turn the

"Pitch>OFF" appears on the display and the pitch control playback will be off temporarily, until the function is re-set

To resume the pitch control playback, press the PITCH key again or use the PITCH option.

NOTE

When turning the pitch control on and off during playback, sound output is cut for a short instant.

Pitch control cannot be used with MP3 discs.

Key control function

The key of the music can be changed during stop, playback or playback standby modes. However, please note that this feature does not work with MP3 discs.

- 1. Press the MENU key to select the KEY option in the PLAY sub-menu to enter the function. (see "Operation basics" on
 - Or, press the KEY key on the remote control to set the function on.
 - The KEY indicator will light up.
- 2. Use the KEY LEVEL option in the PLAY sub-menu to adjust the playback key level.
 - The playback key can be raised or lowered 1/2 octave in half-tone increments. Selection values: 0 (no change), 1 to
- Rotate the MULTI JOG dial to select the desired key level and push to enter.

NOTE

In this condition, when a CD is played back, the key of the music is changed while the speed of the music remains the

Even when the power is turned off, the key change setting is retained.

When the Key control function is on, even if the Pitch control function is used to change the playback speed, the key of playback will remain fixed at the preset key {even if the key level is 0 (zero)}, the Key control function can be turned on.

When using the key control function, the volume of the playback sound may occasionally sound like it is vibrating. This is a result of the key control algorithm working on the CD playback sound and is normal.

Playing back MP3 files

MP3 files recorded onto a CD are handled the same way as files are handled in an ordinary PC, with some MP3 files held within a directory. In addition, several directories can be combined into one directory. This results in multiple layers of directories and files.

When the Directory mode is on, only those files within a selected directory are available for playback.

When the directory mode is off, the directory configuration is ignored, and all MP3 files recorded on the disc are available for playback. Please note that Program playback and Repeat playback only function within directories.

Each MP3 file is handled as a track.

Directories that do not contain MP3 files directly under them cannot be selected for playback. For example, in the diagram below, under directory A are directory B and directory C. If there are MP3 files in both directories B and C, directory A cannot be selected for playback, but directory B and C can be selected for playback.

The CD-RW900SX can play back MP3 files recorded in formats that conform to ISO9660 level 1, level 2, and the Joliet extensions. Discs recorded in multiple sessions may also be played back.

CDs containing MP3s to be played by the CD-RW900SX, have their contents must be within the following maximum limits:

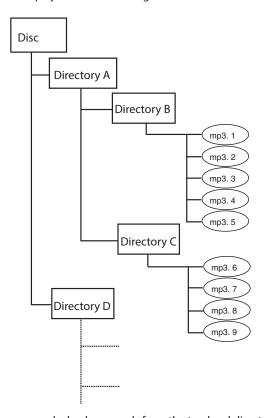
Number of directories: 255

Number of hierarchical structures: 8

Number of MP3 files: 999

Title size of MP3 files and directories: 255

MP3 files are played in the following order



In this manner, playback proceeds from the top level directories.

About MP3 track data

During playback, titles are displayed in the following order of priority:

ID3v2 > ID3v1 > file title

When stopped, the file title is displayed.

Directory playback setting

1. Press the DIRECTORY key on the remote control. Or, use the DIRECTORY option in the PLAY submenu to turn this mode on or off. (see "Operation basics" on page 16) Pressing the MENU key or pushing the MULTI JOG dial exits to normal mode.

NOTE

All MP3 files in a disc can be played back when directory playback mode is off.

The indicator MP3 lights up and only the total number of track will be shown.

Total number of tracks



- 2. When stopped, use the MULTI JOG dial or SKIP key to select desired directory for playback.
- Press the PLAY key to start playback in the directory. Program or Repeat playback can be operated in the selected directory also.

NOTE

MP3 file formatted at 44,1 kHz sampling rate and 128 kbps or higher are required, otherwise, that MP3 file cannot be played back.

MP3 action setting

You can choose whether the unit continues playback or stop when MP3 playback fails (Decode Err!).

Select "MP3 ACTION?" sub-menu on the PLAY option. Select "Skip" or "Stop".

Skip

When MP3 playback fails, the unit skips the current track and advances to the next track. Playback will stop if the current track is the last track (i.e., if the repeat function is off and the current track is the last track on the disc or in the program). The display shows "Decode Err!".

Stop

When MP3 playback fails, the unit stops playback. The display shows "Decode Err!".

5 - Recording

Before you start recording using the CD-RW900SX, make sure that you understand the following key points:

- Once you have recorded on a CD-R disc, the data cannot be erased from it.
- You can add tracks to an unfinalized recordable disc. Once finalized, a CD-R disc is "fixed" and behaves in the same way as a pre-recorded disc. Finalized CD-RW discs, however, can be erased, refreshed and re-recorded.

Input selection

To select the input to be recorded, press the INPUT SELECT key on the main unit.

Repeated presses of the key cycle through the following options:

ANALOG	Analog
OPTICAL	Optical digital in
COAXIAL	Coaxial digital in

In the case of either the coaxial or optical inputs being selected, the indicator COAXIAL or OPTICAL lights up.

If the analog signal is selected, the ANALOG indicator lights on the right of the screen.

Analog recording level:

The level of the analog signals received at the ANALOG IN jacks are controlled with the INPUT controls.

When recording analog signals, set the digital volume to 0 dB.

Digital recording level:

The level of the digital signal may be controlled using the digital volume menu, as described below.

- Call up the VOLUME option in the REC sub-menu. (see "Operation basics" on page 16)
 - Push the MULTI JOG dial to enter the function on.
- Rotate the MULTI JOG dial to adjust the input volume between -54dB and +18 dB (relative to the original input level).
 - There is also a ∞ setting which represents a complete signal cut. The display shows "Vol> --- dB" for the -< setting.
- Press the MENU key or push the MULTI JOG dial to enter the setting and return to normal mode.

Input monitoring

When the unit is in record ready, or record mode, the input signal is output from the OUT jacks (digital and analog), allowing you to hear the input signal.

Press the RECORD key on the front panel or the remote control when a recordable disc is not inserted.

The word "Monitor" appears on the display to show that the output signal is an echo of the input signal(s).

Exit the monitor mode by using the STOP key.

Frequency conversion

The sampling frequency for CDs is 44.1 kHz. The CD-RW900SX will always record (and play back) CDs at this frequency. However, if recording through a digital connection (coaxial or optical) and the source has been recorded at a frequency other than 44.1 kHz, or is being played back at a non-standard speed using a varispeed unit (more than 1% away from the standard), the CD-RW900SX's internal frequency converter: SRC (Sampling Rate Convertor) will automatically convert the incoming frequency to 44.1 kHz.

To enable the SRC

Press the MENU key and select the "SRC?" option in the REC submenu. (see "Operation basics" on page 16)

Rotate the MULTI JOG dial to select "ON". Press the MENU key or push the MULTI JOG dial to enter.

NOTE

When the SRC function is off, and a digital signal is received, the display shows the REC indicator flashing while recording or when in recording standby mode.

The digital signals other than 44.1kHz cannot be recorded when SRC is off. The error message "Not Fs44.1k!" will appear on the display.

5 - Recording

Basic recording

- 1. Load a recordable disc into the unit. As the disc loaded, the display shows "TOC Reading", with the period flashing.
- 2. Press the INPUT SELECT key to select a recording source. (see "Input selection" on page 23) If a digital source is selected, and the connection or the signal are improper, the error message "D-IN UNLOCK" will appear on the display.
- 3. Press the RECORD key. The unit enters record ready mode, as shown by the REC and READY indicators on the display. To adjust the level of the source, following the guidelines in "Input selection" on page 23.

NOTE

- As the unit enters record ready mode, the display shows "Now OPC" (Optimum Power Control) occasionally, as the unit prepares to record on the disc.
- The red "OVER" indicators on the meters should never light. Unlike analog equipment, digital audio units pro-duce extremely unpleasant sounds when distorted, and there is no "headroom" after the 0 mark. If recording digitally from a commercially-produced CD, the volume set in the menu should be 0 dB. This will maintain all the dynamic range of the source CD without clipping. Only boost the signal if the source is exceptionally quiet.

An analog signal input at nominal level, with no cut or boost from the volume controls, is equivalent to a reading of -16 dB on the meters.

- **4.** Press the PLAY key to start recording. Pressing the PAUSE key stands by recording temporarily. To restart recording, press the PAUSE key or PLAY key again.
- 5. Press the STOP key to stop recording. When recording stops, the display shows "PMA Writing" (Program Memory Area) flashing for a few seconds as the unit writes to the disc.

NOTE

- When PMA Writing is shown on the display, all keys are ignored. To confirm the total recording time, use the REC TIME option in the SYSTEM sub-menu. (see "Operation basics" on page 16)
- Do not vibrate the unit or turn off the power when the unit writes to the disc, otherwise, recording will fail.

Time display while recording

When in record or record ready mode, repeated presses of the TIME key cycle through four different time modes:

- Elapsed track time (no display light indication)
- Remaining track time ("REMAIN" is lit in the display)
- Elapsed disc time ("TOTAL" is lit in the display)
- Remaining disc time ("TOTAL" and "REMAIN" are lit in the display)

Full disc

If the disc becomes full during recording, the unit will automatically insert a fade-out. For example: When recording a long program, just before the end of the disc is reached, the unit starts a fade-out over four seconds and the display will show Fade Out.

When the fade-out has finished, the display shows "Disc Full!". Press the STOP key to exit.

If the disc is a CD-RW, the final track can be erased, if required and the disc then finalized. (see "Erasing" on page 28) If the disc is a CD-R, it must be finalized prior to use. (see "Finalizing" on page 27)

Advanced recording

Fade-in and fade-out recording

At the beginning and end of recording, fade-in and fade-out effects can be performed.

When stopped or when in recording standby mode, set the operation using the following menu options on the REC sub-menu. (see "Operation basics" on page 16)

FADE IN?

The length of the fade in to the normal level can be set between 1 and 30 seconds in 1-second increments (default setting: 3 seconds).

FADE OUT?

The length of the fade out into complete silence can be set between 1 and 30 seconds in 1-second incre-ments (default setting: 3 seconds).

The display shows "Fade Out>XXs" or "Fade In>XXs".

- 2. In recording standby mode, press the FADER key on the remote control.
 - Recording begins and the sound fades in. After the preset fade-in time, the sound is at normal level.
- 3. During recording, press the FADER key on the remote control when you wish to fade-out the sound. Fade-out begins with Fade Out flashing on the display then the unit enters recording standby mode.
- **4.** Press the STOP key and the PMA writing will begin.

Fade-in or fade-out function can be operated only by pressing the FADER key on the remote control unit.

Synchronized recording

Synchronized recording basically means that recording will begin automatically when a signal is received, and will stop when the signal ends.

The SYNC indicator appears on the display.

Starting playback of the source automatically starts recording on the CD-RW900SX if Sync function is on (see "Sync recording" below) and manual record start is disabled.

Sync recording

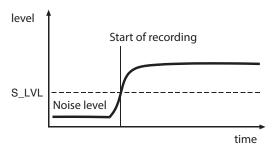
- 1. While recording standby mode, press the SYNCREC key.
- Set the signal detection threshold level. Use the SYNC LEVEL option in the REC sub-menu. (see "Operation basics" on page 16)

Rotate the MULTI JOG dial to adjust the level. The level can be set from -72 dB to -24 dB in 6 dB increments. The default setting is -54 dB.

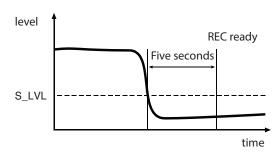
Press the MENU key or push the MULTI JOG dial to enter and return to recording standby mode.

Input the source signal.

Recording begins automatically when the source signal is detected. The source signal should be higher than the adjusted threshold level.



When audio signal is not detected for more than five seconds, the CD-RW900SX automatically will stop recording and enter record standby mode.



NOTE

- After SYNC is set, over one second of silence which is under the adjusted threshold level is required to start recording automatically.
- Otherwise, the unit does not begin recording even if it is detecting a signal.
- When the input level drops below the adjusted threshold level for more than five seconds, recording stops automatically and enters in recording ready mode.

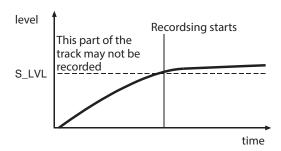
To cancel the Sync recording mode, press the SYNC REC key. Recording returns to normal and continues till you press the STOP key or the source signal stops.

Pressing the STOP key stops recording.

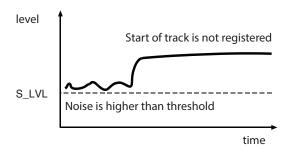
The setting remains when the function is set on again.

NOTE

If you set the value so that only high-level signals trigger recording, remember that the start of a piece may not be record as in the diagram.



Also remember that when recording from an analog source, the threshold should be set so that it is higher than the "noise floor". If the "noise floor" is higher than the threshold, a false start will occur:



5 - Recording

Automatic track division

The trigger level can also be used to divide tracks if the A_TRACK (auto track) function is enabled.

When this function is enabled, the unit automatically inserts a track division in the recorded material.

To enable or disable automatic track division

- 1. Use A TRK option in the REC sub-menu to set the mode on. The A.TRACK indicator at the top right of the display lights.
- Rotate and push the MULTI JOG dial to select and enter the modes following:

DD (digital direct)

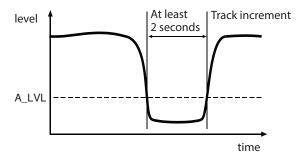
When recording digitally from MD or CD, this mode detects a track boundary and divides the track. However, when the DD mode is on, and if the analog source or non-CD/MD digital connections are detected, the track number will be incremented using level detection, as set with the A_TRK LEVEL setting as described here.

Time (Time track increment)

The track will be incremented when the time set prior to recording using the menu item "A_TRK TIME?" has passed. (see "Operation basics" on page 16) The time can be set between one minute and ten minutes in one minute increments. The A.TRACK indicator blinks during recording or when in record ready mode.

When the sound level has dropped below the threshold for more than two seconds, and sound has re-started, the track will be divided.

Use A TRK LEVEL option in the REC sub-menu. The trigger level is set to -24dB to -72 dB.



Manually divide track

While recording is taking place, press the RECORD key. The current track number is incremented by one.

For details of automatic track division while recording, see "Automatic track division" on page 26.

NOTE

According to the "Red Book" (the specification for audio CDs), a track cannot be less than four seconds in length, and there can be a maximum of 99 tracks on an audio CD. Bear these limitations in mind when adding track divisions.

This operation can not be applied while recording track 99.

Rec mute function

The Rec mute function allows instant cut-off of the input signal, and records four seconds of silence on the disc.

While recording is in progress, press the REC MUTE key on the remote control.

The display shows the "Rec Mute" flashing, the meters stop displaying the current level and the monitored sound is cut. After about four seconds, the unit enters record ready mode.

NOTE

This function is only available from the remote control unit.

Restricting the number of tracks

When making a recording, it is possible to restrict the number of tracks that nay be recorded at one time.

At any time within record or record ready mode, turn the MULTI JOG dial to display the track numbers you want to record. The maximum number that can be entered is 99 tracks.

6 – After recording

This section deals with the actions taken after record-ing: finalizing for CD-R and CD-RW discs, and erase operations for CD-RW discs.

Once finalized, CD-R discs are truly final—no more can be recorded on them. By contrast, CD-RW discs can be "unfinalized" using the CD-RW900SX, i.e. their TOC can be deleted, and if there is space, further material can be recorded on them. Even if the disc is full, tracks can be erased following the unfinalize process, and new material can be recorded.

Finalizing

As has been explained earlier (see "About finalizing" on page 9), in order for a disc to become a standard CD, it must have a Table of Contents (TOC) written to it. This process is known as

An unfinalized disc can always be distinguished on the CD-RW900SX by the TOC indicator under the disc type on the display being unlit when the disc is inserted.

To finalize a disc:

- 1. Load the unfinalized disc, and with the unit in stop mode, press the FINALIZE key.
 - The display shows "FINALIZE?".
 - If you do not want to proceed with the finalizing process, press the FINALIZE/INS key on the front panel or the FINALIZE key on the remote control.
- 2. To start the finalizing process, push the MULTI JOG dial or press the ENTER key on the remote control.
 - The display shows "Sure?".
 - If you do not want to proceed with the finalizing process, press the STOP key.
- **3.** When finalization has been chosen, the display shows the TOC flashing and the remaining time. The unit starts counting down from a time shown on the display.
- 4. When finalization has been finished successfully, "Complete" appears and the TOC will be lit on the display.

NOTE

During the finalizing process, all key presses are ignored.

Unfinalizing CD-RW discs

If a CD-RW disc has been finalized, it is possible to erase the Table of Contents in the following way:

- With the finalized disc loaded and the unit in stop mode, press the ERASE/DEL key on the front panel or the ERASE key on the remote control.
 - Rotate the MULTI JOG dial or press the SKIP key on the remote control to select "UNFINALIZE?". Push the MULTI JOG dial or press the ENTER key to confirm.
- If you do not want to proceed with the unfinalizing process, press the ERASE/DEL key on the front panel or the SKIP key on the remote control.
 - The display shows "Sure?".
 - If you do not want to proceed with the unfinalizing process, press the STOP key.
- 3. To start the unfinalizing process, press the MULTI JOG dial or the ENTER key again.
 - When unfinalization has been chosen, the display shows "Erase" flashing and the remaining time. The unit starts counting down from a time shown on the display. When finalization has been finished successfully, "Complete" appears on the display, and the TOC indicator will go off.

6 – After recording

Erasing

Erasing tracks

This operation erases the specified track and all sub-sequent tracks from a recorded CD-RW disc.

NOTE

Once this operation has started, the STOP key cannot be used to cancel it. Please check the track range to be deleted first. Erasing track is operated only when unit is in continuos playback.

- While stopped, press the ERASE/DEL key on the front panel or the ERASE key on the remote control. Select the "ERASE TRACK?" rotating the MULTI JOG dial or pressing the SKIP key on the remote control.
 - To cancel the operation at this point, press the ERASE/DEL or the ERASE key again.
- Push the MULTI JOG dial or press the ENTER key to enter the
 - The display shows "Erase XX-XX" (the number of the first track and last track to be erased).
 - Rotate the MULTI JOG dial or press the SKIP key to change the track numbers you desire to erase.
 - To cancel the operation at this point, press the ERASE/DEL or the ERASE key again.
- Push the MULTI JOG dial or press the ENTER key to operate the function.
 - The display shows "Sure?".
 - To cancel the operation at this point, press the STOP key.
- 4. Push the MULTI JOG dial or press the ENTER key again to proceed the operation.
 - The display shows Erase flashing and the remaining time. The unit starts counting down from a time shown on the display.
- When the tracks have been erased, "Complete" will appears on the display.

Erasing a whole disc

When you want to erase a whole disc (all the tracks on a disc), follow the procedure below:

NOTE

Once the operation is proceeded, the STOP key cannot function. Please confirm before the operation.

- 1. While stopped, press the ERASE/DEL key on the front panel or the ERASE key on the remote control. Select the "ERASE DISC?" by rotating the MULTI JOG dial or pressing the SKIP key on the remote control. To cancel the operation at this point, press the ERASE/DEL or the ERASE key again.
- Push the MULTI JOG dial or press the ENTER key to enter the function. The display shows "Sure?". To cancel the operation at this point, press the STOP key.
- 3. Push the MULTI JOG dial or press the ENTER key again to proceed the operation.
 - The display shows Erase flashing and the remaining time. The unit starts counting down from a time shown on the display.
- When the disc has been erased, "Complete" appears then "Blank Disc" will appear on the display.

Refreshing a disc

Refreshing the disc makes a disc usable again. This operation destroys all data on the disc.

- Load the disc, and the unit in stop mode, press the ERASE/ DEL key on the front panel or the ERASE key on the remote control. Select the "REFRESH?" rotating the MULTI JOG dial or pressing the SKIP key on the remote control. To cancel the operation at this point, press the ERASE/DEL or the ERASE key again.
- 2. Push the MULTI JOG dial or press the ENTER key on the remote control to enter the function. The display shows
 - To cancel the operation at this point, press the STOP key.
- 3. Push the MULTI JOG dial or press the ENTER key again to proceed the operation.
 - The display shows Erase flashing and the remaining time. The unit starts counting down from a time shown on the
- When the disc has been refreshed, "Complete" appears then "Blank Disc" will appear on the display.

Titles can be given to the disc and the tracks on the disc, using the TEXT EDIT option on the TEXT sub-menu.

NOTE

After a new title is selected and entered on the disc, TOC will light up on the display. If the power is turned off, the TOC has not been recorded on the disc and the titles will not have be added. You must finalize the disc to save the titles.

Title input operation

Follow the guidelines below to input titles on the screen. Operate them when in the text edit mode.

It is more efficient to connect a keyboard for title input. (see "Title input by keyboard" on page 30)

Select the type of character for input

Press the DISPLAY key on the unit or the remote control to select from two different types of characters.

- Lower case letters/code: no indication
- Capital letters/code: CAPS

Input procedure

Rotate the MULTI JOG dial or the SKIP key on the remote control to get the desired characters on the display.

Push the MULTI JOG dial or press the ENTER key on the remote control to enter.

To move the cursor position

Use the ◀◀/◀ key and the ▶▶/▶ key on the front panel, or the SEARCH key on the remote control.

To delete characters

Place the cursor on the character, then press the ERASE/DEL key on the front panel, or the ERASE key on the remote control.

To insert characters

Move the cursor to the location where you wish to insert a character, and press the FINALIZE/INS key on the front panel or the FINALIZE key on the remote control.

To change a character

Place the cursor on the character to be changed, then input the desired character.

NOTE

As with the TEXT menu, if you attempt to eject the disc without writing the TOC to the disc, the display will show "Sure? Text!". If you want to eject the disc without performing a TOC write, press the EJECT key while "Sure Text!" is shown on the display. The text that have been edited or entered will be abandoned.

The disc or track title on a finalized disc cannot be edited. Unfinalizing (CD-RW only) is needed in this case to use the title input function.

Disc title input

- 1. While stopped, select the TEXT EDIT option in the TEXT submenu. (see "Operation basics" on page 16) "Text> Disc" will appear.
- 2. Press the MULTI JOG dial or the ENTER key on the remote
 - Now, you can input or edit the disc title following the guidelines above.
- **3.** Press the MENU key to enter. If you want to cancel, press the STOP key.

Track title input

- 1. While stopped, select the TEXT EDIT option in the TEXT submenu. (see "Operation basics" on page 16)
- Rotate the MULTI JOG dial or repeatedly press the SKIP keys on the remote control to select the track number you wish
- Push the MULTI JOG dial or press the ENTER key on the remote control.
 - Now, you can input or edit the track title following the quidelines above.
- 4. Press the MENU key to enter. If you want to cancel, press the STOP key.

8 - Operation using a computer keyboard

Using a keyboard with the CD-RW900SX

A computer keyboard can be connected to the IBM PC compatible PS/2 interface on the front panel to operate certain functions of the CD-RW900SX. It is particularly efficient for title

Keyboard type setting

The CD-RW900SX must be set for the type of keyboard being connected.

Set the type using the sub-menu KEYBOARD option on the SYSTEM sub-menu. Select "US" for an English-language keyboard, or "JP" for a Japanese-language keyboard.

Title input by keyboard

Titles can be input just like typing on a PC.

To enter the Title Edit menu

Press SHIFT + F8 to enter the Disc/Track Title Edit Menu.

To select the type of characters for input

Press CAPS to select or cancel upper case letters

To input characters

Character input is performed directly with the letter and number keys.

To move the cursor

Use the cursor arrow keys

To delete characters

Delete key: deletes the character in the cursor position Back space key: deletes the character before the cursor position

To insert a character

Use the Insert key.

To change a character

Put the cursor on its position and input the desired character.

Other keyboard operations

The keyboard can be used not only for title input, but also to control the deck transports, perform editing functions and other operations. The list below shows the keys that perform various operations.

Keyboard key	Operation
F1	same as pressing the I◀◀ key
F2	same as pressing the ►►I key
F3	same as pressing the Key key
F4	same as pressing the STOP key
F5	same as pressing the PLAY key
F6	same as pressing the PAUSE key
F7	set the Auto Cue on or off
F8	same as pressing the RECORD key
F9	set the Auto Ready on or off
F10	same as pressing the REPEAT key
F11	same as pressing the P.MODE key
F12	same as pressing the PITCH key
SHIFT + F1	direct to "ERASE TRACK?"
SHIFT + F2	direct to "ERASE DISC?"
SHIFT + F3	direct to "REFRESH?"
SHIFT + F4	
SHIFT + F5	
SHIFT + F6	
SHIFT + F7	
SHIFT + F8	direct to "TEXT EDIT?"
SHIFT + F9	
SHIFT + 10	
SHIFT + F11	direct to "UNFINALIZE?"
SHIFT + F12	direct to "FINALIZE?"
CTRL + F1	Direct track search TRACK 1
CTRL + F2	Direct track search TRACK 2
CTRL + F3	Direct track search TRACK 3
CTRL + F4	Direct track search TRACK 4
CTRL + F5	Direct track search TRACK 5
CTRL + F6	Direct track search TRACK 6
CTRL + F7	Direct track search TRACK 7
CTRL + F8	Direct track search TRACK 8
CTRL + F9	Direct track search TRACK 9
CTRL + F10	Direct track search TRACK 10
CTRL + F11	Direct track search TRACK 11
CTRL + F12	Direct track search TRACK 12
CAPS	select or cancel upper case letters
←/→	to move the cursor
Delete	same as the DEL or CLEAR key
Back space	deletes the character before the cursor
Insert	same as the FINALIZE/INS key
ESC	cancel edit or title edit and finis Menu mode
Enter	same as the ENTER key
	,

9 - Reference and specifications

Error messages

Message	Details / response
Can't Rec!	Cannot record. Either erase the contents of the disc (for a CD-RW), or use a different recordable disc.
Disc Error!	The disc has malfunctioned. Please replace with a new disc.
Disc Full!	No recording time remaining, or no recordable track is left on the disc.
Text Full!	No space to input the letters.
Sure? Text!	The text data is not written on the disc yet. Eject the disc to cancel the text you entered or perform the finalize operation to write the data to the disc.
Drive Error!	There is a problem in the drive.
D-IN UNLOCK!	The digital input is not connected. Turn on the power of the equipment connected to DIGITAL IN.
Not Audio!	There is no audio signal from DIGITAL IN.
Erase Error!	An error occurred while erasing.
Not Fs44.1k!	The sampling frequency of the digital input is not 44.1 kHz. Please turn the SRC on.
PGM Empty!	There is no program.
PGM Full!	No new programs can be created.
Can't Edit!	Editing cannot be performed due to operational restrictions.
Can't Sel!	Menu selection cannot be performed due to selection restrictions.
Rec Error!	There was an error during recording. Please re-record.
OPC Error!	There was an error during OPC. Please re-record.
No DIR!	There is no directory that contains a file.
Decode Err!	The MP3 file cannot be played back.
Format Err!	The disc is in a format that the CD-RW900SX cannot read.
IR Disable!	Remote control operation is not allowed.

Messages during operations

Message	Statement
Blank Disc A blank recordable disc has been inserted.	
Complete	An operation such as finalize or erase has been successfully completed.
Now OPC*	Calibration is being performed to operate recording properly.
Disc Repair	The disc is being repaired, and this operation will take a long time. Please do not turn off the power of the CD-RW900SX until it finishes.
PMA Writing*	The recorded content is being written to the disc.
TOC Reading	The table of contents data is being read.

^{*} OPC = Optimum power Control

^{*} PMA = Program memory Area

9 – Reference and specifications

Troublshooting

Symptom	Possible cause and remedy
There is no power to the unit.	Please check the power cord is properly plugged in.
"Disc Error!", or "OPC Error!" is displayed.	The disc may be dirty. Please replace the disc.
Playback is not possible.	This may be due to condensation. In this case, remove the disc, turn the power on and wait a few hours, then try again.
No sound is output.	Confirm the connections with the audio system.Check the volume level, and proper amplifier operation.
Recording is not possible.	 Confirm the connections with the audio system. Adjust the recording level. The disc may be for playback only. Please replace with a recordable disc.
Noise or static can be heard.	Please re-position the unit away from strong source of magnetism such as a television.
The unit does not retain settings.	While settings are retained each time they are made, in some case they will not be retained when the power is turned off too soon. To prevent this from happening, do not turn off the power right after making a seting.
Can't insert a disc.	Take the disc out and press the EJECT key to reset. Then try again. Never use force to insert the disc into the slot.

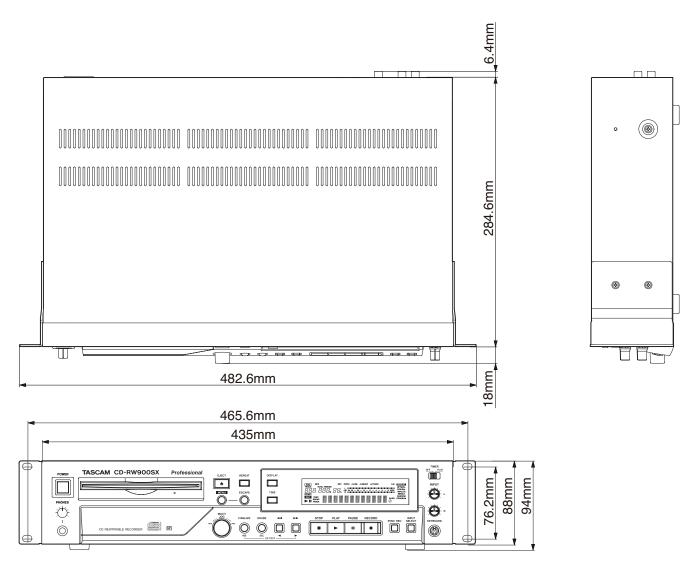
9 - Reference and specifications

Specifications

Supported disc types	CD, CD-R, CD-R-DA, CD-RW and CD-RW-DA (High speed CD-RW is supported)
Playback disc formats	CD-DA, CD-ROM ISO9660 LEVEL1/2Joliet format, multisession discs and CD text
Playback file formats	CD-DA: 44.1kHz, 16-bit stereo MP3: 44.1kHz, 64–320kbps, VBR
Recording file formats	CD-DA: 44.1kHz, 16-bit stereo
Frequency response	20 Hz – 20 kHz ±0.8 dB (playback) ±1.0 dB (recording)
S/N	95 dB (playback) 90 dB (recording)
Dynamic range	95 dB (playback) 90 dB (recording)
Distortion	0.006 % (playback) 0.008 % (recording)
Channel separation	90 dB (playback) 80 dB (recording)
Wow and flutter	< 0.001 % (unmeasurable)
Analog inputs	Unbalanced RCA pin Level -10 dBV ± 2 dB (Full Scale -16 dB) Minimum input level -19 dBV (adjustable level at Full Scale -16 dB) Input impedance $22 \text{ k}\Omega \pm 10\%$ (unbalanced)
Analog outputs	Unbalanced RCA pin Level -10 dBV ± 2 dB (Full Scale -16 dB) Maximum output level +6 dBV ± 2 dB Output impedance 200 $\Omega \pm 10\%$ (unbalanced)
Phones output	Stereo (6.3mm (1/4")) 20 mW 32 Ω
Digital input	Coaxial RCA pin jack (IEC-60958 Consumer use) Optical TOSLINK (IEC-60958 Consumer use) Supported input sampling frequencies: 32–48 kHz
Digital output	Coaxial RCA pin jack (IEC-60958 Consumer use) Optical TOSLINK (IEC-60958 Consumer use)
Keyboard	Mini DIN 6 pin
Power	U.S.A./Canada: 120 VAC, 60Hz U.K./Europe/Australia: 230 VAC, 50Hz
Power consumption	16 W (U.S.A./Canada) 18 W (U.K./Europe/Australia)
Dimensions (d x w x h)	309 x 482.6 x 94 (mm) / 12.2 x 19.0 x 3.7 (in)
Weight	4.3 kg

9 - Reference and specifications

Dimensional drawing



- Illustrations and other depictions may differ in part from the actual product.
- Specifications and external appearance may be changed without notification to improve the product.

>

WARRANTY

< In the United States >

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. This warranty is only valid within the country the unit was originally purchased.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as specified below, this warranty covers all defects in materials and workmanship in this product. The following are not covered by the

- 1. Damage to or deterioration of the external cabinet.
- 2. Damage resulting from accident, misuse, abuse or neglect.
- Damage resulting from failure to perform basic daily maintenance and/or calibration or otherwise resulting from failure to follow instructions contained in your owner's manual
- 4. Damage occurring during shipment of the product. (Claims must be presented to the carrier)
- Damage resulting from repair or attempted repair by anyone other than TEAC or an authorized TASCAM service station.
- Damage resulting from causes other than product defects, including lack of technical skill, competence, or experience of the user.
- 7. Damage to any unit which has been altered or on which the serial number has been defaced, modified or is missing.

WHO IS COVERED UNDER THE WARRANTY

This warranty may be enforced only by the original purchaser.

This warranty is not valid if the product was purchased through an unauthorized dealer

LENGTH OF WARRANTY

All parts except heads and disk drives are warranted for one (1) year from the date of original purchase. Heads and disk drives are warranted for ninety (90) days from date of original purchase. Labor is warranted for ninety (90) days from date of original purchase.

WHAT WE WILL PAY FOR

We will pay all labor and material expenses for items covered by the

warranty. Payment of shipping charges is discussed in the next section of this warranty.

HOW YOU CAN GET WARRANTY SERVICE

Your unit must be serviced by an authorized TASCAM service station in the United States. (This warranty is not enforceable outside the U.S.) If you are unable to locate an authorized TASCAM service station in your area, please contact us. We either will refer you to an authorized service station or instruct you to return the unit to the factory. Whenever warranty service is required, you must present a copy of the original dated sales receipt from an Authorized TASCAM Dealer.

You must pay any shipping charges if it is necessary to ship the product to service. However, if the necessary repairs are covered by the warranty, we will pay return surface shipping charges to any destination within the United States.

LIMITATION OF IMPLIED WARRANTIES

Any implied warranties, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, are limited in duration to the length of this warranty.

EXCLUSION OF DAMAGES

TEAC's liability for any defective product is limited to repair or replacement of the product, at TEAC's option. TEAC shall not be liable for:

- Damages based upon inconvenience, loss of use of the product, loss of time interrupted operation or commercial loss; or
- Any other damages, whether incidental, consequential or otherwise.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

To locate an Authorized Service Center in Your Area

CALL 1-323-726-0303

< Europe >

This product is subject to the legal warranty regulations of the country of purchase. In case of a defect or a problem, please contact the dealer where you bought the product.

Ce produit est sujet aux réglementations concernant la garantie légale dans le pays d'achat. En cas de défaut ou de problème, veuillez contacter le revendeur chez qui vous avez acheté le produit.

Dieses Gerät unterliegt den gesetzlichen Gewährleistungsbestimmungen des Landes, in dem es erworben wurde. Bitte wenden Sie sich im Gewährleistungsfall an den Händler,

Questo apparecchio è conforme alle norme sulla garanzia vigenti nel rispettivo Paese in cui esso è stato acquistato. Si prega di rivolgersi al proprio commerciante, presso il quale è stato acquistato l'apparecchio, nel caso in cui si voglia richiedere una prestazione in garanzia.

Las condiciones de garantía de este aparato están sujetas a las disposiciones legales sobre garantía del país en el que ha sido adquirido. En caso de garantía, debe dirigirse al establecimiento donde adquirió el aparato.

< In other countries/areas >

bei dem sie das Gerät erworben haben.

This warranty gives you specific legal rights, and you may also have other rights that vary by country, state or province.

If you have a warranty claim or request, please contact the dealer where you bought the product.

,该保证书赋予了顾客特定的合法权利,并且因国家,州或 省等地域的不同,顾客可能拥有其他权利。如需申请或要 求保修,请与购买本产品的销售店进行联系。

If you require repair services for your TASCAM equipment, please contact the dealer where the product was purchased from or the TASCAM Distributor in your country. A list of TASCAM Distributors can be found on our website at: https://teac-global.com/

TASCAM

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WARRANTY Model / Modèle / Modell Owner's name / Nom du propriétaire / Name des Eigentümers Modello / Modelo / 型号 Nome del proprietario / Nombre del propietario / 顾客姓名

CD-RW900SX

Serial No. / No de série / Seriennummer Numero di serie / Número de serie / 序列号 Address / Adresse / Adresse Indirizzo / Dirección / 顾客地址

Date of purchase / Date de l'achar Datum des Kaufs Dealer's name / Nom du revendeur / Name des indlers ento / 销售店名 Data dell'acquisto / Fecha de com Nome del commerc e / Nombre del establecia

https://teac-global.com/

address / Adresse du revendeur / Adres des Händlers del commerciante / Dirección del estal cimiento / 销售店