

marantz®

Model SD4051 User Guide

Cassette Deck

ENGLISH

WARRANTY

For warranty information, contact your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE

Pour des informations sur la garantie, contacter le distributeur local Marantz.

CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GARANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

HEBEN SIE IHRE QUITTING GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihren wertvollen Einkauf. Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungszwecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

WICHTIG!

Bei Garantiefragen muß der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihre Quittung oder Rechnung ist als Unterlage ausreichend.

NEDERLANDS

GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke Marantz.

UW KWITANTIE, KASSABON E.D. BEWAREN

Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt, verwijzing bijv, in verbend met verzekering of bij correspondentie met Marantz.

BELANGRIJK

Bij een evt, beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur zijn voldoende bewijs.

ESPAÑOL

GARANTIA

Para obtener información acerca de la garantía póngase en contacto con su distribuidor Marantz.

GUARDE SU RECIBO DE COMPRA

Su recibo de compra es su prueba permanente de haber adquirido un aparato de valor. Este recibo deberá guardarlo en un lugar seguro y utilizarlo como referencia cuando tenga que hacer uso del seguro o se ponga en contacto con Marantz.

IMPORTANTE

Quando solicite el servicio otorgado por la garantía el usuario tiene la responsabilidad de demostrar cuándo efectuó la compra. En este caso, su recibo de compra será la prueba apropiada.

ITALIANO

GARANZIA

L'apparecchio è coperto da una garanzia di buon funzionamento della durata di un anno, o del periodo previsto dalla legge, a partire dalla data di acquisto comprovata da un documento attestante il nominativo del Rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o la riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirsi a difetti di funzionamento dell'apparecchio. Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza Autorizzati. Le spese ed i rischi di trasporto sono a carico del cliente.

La casa costruttrice declina ogni responsabilità per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale o per guasti dovuti ad uso continuato a fini professionali.

SVENSKA

GARANTI

För information om garantin, kontakta Marantz lokalagent.

SPAR KVITTOT

Kvittot är ett inköpsbevis på en värdefull vara. Det skall förvaras säkert och hänvisas till vid försäkringsfall eller vidkorrespondens mod Marantz.

VIKTIGT

Fö att garantin skall gälla är det kundens sak att framställa bevis och datum om köpet. Kvitto eller faktura är tillräckligt bevis för detta.

CE MARKING

- English**
The SD4051 is in conformity with the EMC directive and low-voltage directive.
- Français**
Le SD4051 est conforme à la directive EMC et à la directive sur les basses tensions.
- Deutsch**
Das Modell SD4051 entspricht den EMC-Richtlinien und den Richtlinien für Niederspannungsgeräte.
- Nederlands**
De SD4051 voldoet aan de EMC eisen en de vereisten voor laag-voltage.
- Español**
El SD4051 está de acuerdo con las normas EMC y las relacionadas con baja tensión.
- Italiano**
Il SD4051 è conforme alle direttive CEE ed a quelle per i bassi voltaggi.
- Svenska**
SD4051 är tillverkad i enlighet med EMC direktiven och direktiven för lågvoltstrusning.

English

WARNINGS

- Do not expose the equipment to rain or moisture.
- Do not remove the cover from the equipment.
- Do not insert anything into the equipment through the ventilation holes.
- Do not handle the mains cord with wet hands.
- Do not cover the ventilation with any items such as tablecloths, newspapers, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- Make a space of about 0.1 meter around the unit.
- No objects filled with liquids, such as vases, shall be placed on the equipment.
- When the switch is in the OFF position, the equipment is not completely switched off from MAINS.
- The equipment shall be installed near the power supply so that the power supply is easily accessible.

Français

AVERTISSEMENTS

- Ne pas exposer l'appareil à la pluie ni à l'humidité.
- Ne pas essayer de retirer le boîtier de l'appareil.
- Ne rien insérer dans l'appareil par les orifices de ventilation.
- Ne pas manipuler le cordon d'alimentation avec les mains mouillées.
- Ne pas recouvrir les ouïes de ventilation avec un objet quelconque comme une nappe, un journal, un rideau, etc.
- Ne placer aucune source de flamme nue, comme une bougie allumée, sur l'appareil.
- Pour mettre au rebut les piles usées, respecter les lois gouvernementales ou les règlements officiels concernant l'environnement qui s'appliquent à votre pays ou région.
- Veiller à ce qu'aucun objet ne soit à moins de 0,1 mètre des côtés de l'appareil.
- Aucun objet rempli de liquide, un vase par exemple, ne doit être placé sur l'appareil.
- Lorsque l'interrupteur est sur la position OFF, l'appareil n'est pas complètement déconnecté du SECTEUR (MAINS).
- L'appareil sera installé près de la source d'alimentation, de sorte que cette dernière soit facilement accessible.

Deutsch

WARNHINWEISE

- Das Gerät nicht Regen oder Feuchtigkeit aussetzen.
- Die Abdeckung nicht vom Gerät abnehmen.
- Keine Gegenstände durch die Belüftungsschlitze stecken.
- Das Netzkabel nicht mit feuchten oder nassen Händen anfassen.
- Decken Sie die Lüftungsöffnungen nicht mit einem Tischtuch, einer Zeitung, einem Vorhang usw. ab.
- Es dürfen keine Gegenstände mit offener Flamme, wie etwa brennende Kerzen, auf dem Gerät aufgestellt werden.
- Beachten Sie bei der Entsorgung der verbrauchten Batterien alle geltenden lokalen und überregionalen Regelungen.
- Auf allen Geräteseiten muß ein Zwischenraum von ungefähr 0,1 meter vorhanden sein.
- Auf das Gerät dürfen keine mit Flüssigkeiten gefüllte Behälter, wie etwa eine Vase, gestellt werden.
- Wenn der Schalter ausgeschaltet ist (OFF-Position), ist das Gerät nicht vollständig vom Stromnetz (MAINS) abgetrennt.
- Das Gerät sollte in der Nähe einer Netzsteckdose aufgestellt werden, damit es leicht an das Stromnetz angeschlossen werden kann.

Nederlands

WAARSCHUWINGEN

- Stel het apparaat niet bloot aan regen of vocht.
- Verwijder de afdekplaat van het apparaat niet.
- Duw niets door de ventilatieopeningen in het apparaat.
- Raak het netsnoer niet met natte handen aan.
- Bedek de ventilatieopeningen niet met enige voorwerpen, zoals tafelkleden, kranten, gordijnen, enz.
- Plaats geen brandende voorwerpen, zoals kaarsen, op het apparaat.
- Volg bij het weggooien van verbruikte batterijen de overheidswetgeving of milieuvorschriften op die van kracht zijn in het land of de regio waarin u zich bevindt.
- Zorg dat er 0,1 meter vrije ruimte rond het toestel is.
- Plaats geen voorwerpen met een vloeistof erin, zoals een bloemenvaas, op het apparaat.
- Als de schakelaar op OFF staat, is het apparaat niet volledig losgekoppeld van de netspanning (MAINS).
- De apparatuur wordt in de buurt van het stopcontact geïnstalleerd, zodat dit altijd gemakkelijk toegankelijk is.

Español

ADVERTENCIAS

- No exponga el equipo a la lluvia ni a la humedad.
- No extraiga la tapa del equipo.
- No introduzca nada en el interior del equipo a través de los orificios de ventilación.
- No maneje el cable de alimentación con las manos mojadas.
- No cubra la ventilación con objetos como manteles, periódicos, cortinas, etc.
- No deben colocarse sobre el equipo elementos con fuego, por ejemplo velas encendidas.
- Cuando se eliminen baterías usadas, deben cumplirse las reglamentaciones oficiales o las normas de protección medioambiental aplicables en su país o en su zona.
- Deje un espacio de unos 0,1 metro alrededor de la unidad.
- No se deben colocar sobre el aparato recipientes que contengan líquidos, como por ejemplo jarrones.
- Cuando el interruptor está en la posición OFF, el equipo no está completamente desconectado de la alimentación MAINS.
- El equipo se instalará cerca de la fuente de alimentación de manera que resulte fácil acceder a ella.

Italiano

AVVERTENZE

- Non esporre l'apparecchio alla pioggia o all'umidità.
- Non rimuovere il coperchio dell'apparecchio.
- Non introdurre oggetti all'interno dell'apparecchio attraverso i fori di ventilazione.
- Non toccare il cavo di alimentazione con le mani bagnate.
- Non coprire le fessure di ventilazione con tovaglie, giornali, tende od oggetti analoghi.
- Non posare sull'apparecchio sorgenti di fiamme scoperte quali candele accese.
- Smaltire le pile usate in conformità alle norme governative o disposizioni ambientali vigenti nel proprio paese o zona.
- Lasciare 0,1 metro liberi tutto intorno l'unità.
- Non mettere sull'apparecchiatura alcun contenitore di liquido, come ad esempio dei vasi.
- Quando l'interruttore è nella posizione OFF, l'apparecchiatura non è completamente scollegata da MAINS.
- L'apparecchio va installato in prossimità della fonte di alimentazione, in modo che quest'ultima sia facilmente accessibile.

Svenska

VARNINGAR

- Utsätt inte utrustningen för regn eller fukt.
- Ta inte bort utrustningens hölje.
- För inte in föremål i utrustningen genom ventilationshålen.
- Hantera inte nätsladden med våta händer.
- Täck inte för ventilationsöppningarna med några föremål som till exempel bordsdukar, dagstidningar, gardiner e.d.
- Inga föremål med öppen låga, som till exempel tända stearinljus, bör placeras på utrustningen.
- Följ de lagar och miljöskyddsråd som gäller i det land eller område där du bor när du gör dig av med batterier.
- Se till att det finns omkring 0,1 meter fri plats runt omkring enheten.
- Inga objekt som är fyllda med någon vätska, till exempel blomstervaser, bör placeras på apparaten.
- Även om strömbrytaren står i det avstängda läget OFF, så är utrustningen inte helt bortkopplad från det elektriska nätet (MAINS).
- Utrustningen ska vara installerad nära strömuttaget så att strömförsörjningen är lätt att tillgå.

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A NOTE ABOUT RECYCLING



This product's packaging materials are recyclable and can be reused. This product and the accessories packed together are the applicable product to the WEEE directive except batteries.

Please dispose of any materials in accordance with your local recycling regulations.

When discarding the unit, comply with your local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

FOREWORD

This section must be read before any connection is made to the mains supply.

COPYRIGHT

Recording and playback of any material may require consent. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- any subsequent statutory enactments and orders.

PRECAUTIONS

The following precautions should be taken when operating the equipment.

GENERAL PRECAUTIONS

When siting the equipment ensure that:

- the ventilation holes are not covered;
- air is allowed to circulate freely around the equipment
- it is on a vibration free-surface;
- it will not be exposed to interference from an external source;
- it will not be exposed to excessive heat, cold, moisture or dust;
- it will not be exposed to direct sunlight;
- it will not be exposed to electrostatic discharges

Never place heavy objects on the equipment.

If a foreign body or water does enter the equipment, contact your nearest dealer or service centre.

Do not pull out the plug by pulling on the mains lead, hold the plug.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply.

DOLBY HX PRO

The Dolby HX-Pro system consists of a circuit which drastically expands the tape recording performance and greatly improves the high-frequency recording characteristic.

With an ordinary recording circuitry based on a fixed bias system, the use of a small bias during recording can improve the high-frequency MOL, but increases the overall distortion. On the contrary, large bias can decrease distortion but the high-frequency MOL is degraded in this case.

As a result, in case the recorded music contains a large amount of high-frequency component, the effects of the high-frequency component and fixed bias are multiplied resulting in over-bias, which degrades the high-frequency saturation level. This tendency is further enhanced when the recording level is high.

On the other hand, the Dolby HX-Pro system detects the high-frequency component contained in the signal to be recorded and controls the recording bias accordingly, so that the saturation level characteristic is improved by reducing the high-frequency bias while maintaining the effective bias for the middle and low frequency components.

This makes it possible to obtain a reproduction performance with enough headroom close to Metal tapes from normal-position tapes.

It is to be noted that, unlike noise reduction systems, the Dolby HX-Pro system is a recording bias adjustment system which functions only during recording. Therefore, cassettes recorded with the Dolby HX-Pro system can be played back at any other cassette deck.

DOLBY NOISE REDUCTION

The Dolby NR (Noise Reduction) systems reinforce low-level signals in the high and middle frequencies for certain amount during recording, and attenuate these signals for the same amount during playback. As a result, the same signal as the recorded signal can be reproduced, except that the tape hiss noise usually generated in tape recording is reduced largely.

Note:

The effect of Dolby B NR systems can be obtained only when the same type of NR system is used in both recording and playback. If it is used only in recording or playback, or if different types are used in recording and playback, the high frequencies will be degraded and sound quality will be unnatural.

Manufactured under license from Dolby Laboratories.

HX Pro headroom extension originated by Bang and Olufsen.

"Dolby", "HX Pro", and the double-D symbol are trademarks of Dolby Laboratories.

Thank you very much for purchasing the MARANTZ component stereo cassette tape deck.
 MARANTZ proudly presents this advanced tape deck to audiophiles and music lovers as a further proof of MARANTZ's non-compromising pursuit of the ultimate in sound quality. The high quality performance and easy operation are certain to provide you with many hours of outstanding listening pleasure.

Please check to make sure the following items are included with the main unit in the carton:

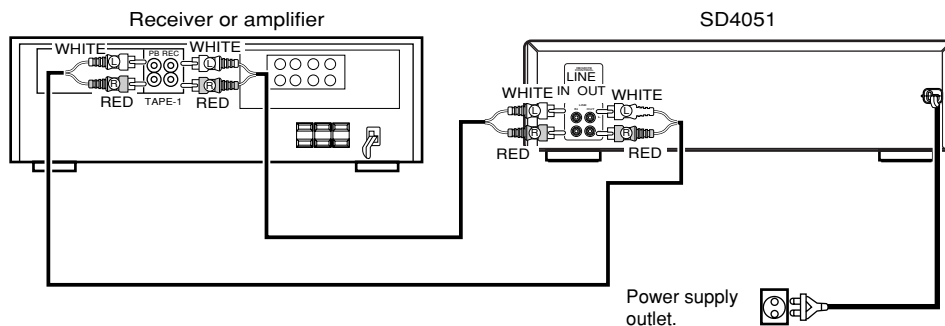
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FEATURES

- Computer Controlled Mechanism
- Dolby HX-Pro Headroom Extension System
- Dolby B Noise Reduction Systems
- Dual Computing Tape Counter with 4-Digit Readout
- FL Peak Level Meters
- Auto Tape Selector
- 2-Speed Dubbing
- Relay Playback
- Optional Remote Controllable
- Pitch Control Function (DECK A)

CONNECTION

- Leave your entire system (including this cassette deck) turned off until all connections between the deck and other components have been completed.



■ Connecting the Deck to an Amplifier

- Before connecting the deck to your amplifier, please review your amplifier's instruction manual.
- Use the white plugs for the left channel and red plugs for the right channel.

■ Tape Dubbing

- Many stereo amplifiers and receivers have tape dubbing circuitry so that tape duplication can be performed between two or more tape decks. Review your amplifier's instruction manual for a full explanation of this mode of operation.

■ Connecting Headphones

To listen through headphones, plug your headphones into the PHONES jack.

■ REMOTE CONTROL

For the operation of the system control.
 The following functions of this Marantz product can be remote-controlled.

Play, FF, REW, Stop, Rec, Rec Pause, Rec Mute, Counter Reset, Direction, Deck A, Deck B.

However, the remote-controllable functions are dependednt on the type of remote control used.

If this Marantz product is to be remote-controlled by a Marantz Learning Remote Control, please refer to the Command Code Table of page 8.

■ Installation Precautions

If the deck is placed near an amplifier, TV or tuner, noise (induced hum) or beat interference may result, especially during FM or AM reception. If this occurs, place the deck further away from other components or reorient its position.

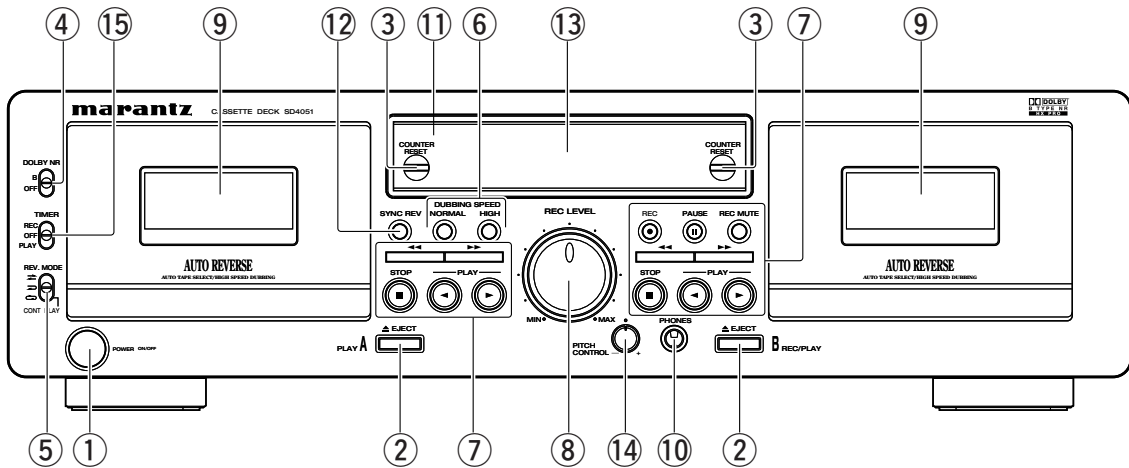
Caution

A mechanical sound is heard the first time the power switch is set to "ON" after the power cord is plugged into an outlet. This is the sound of the cassette mechanism being set to the proper operating state, and is normal.
 (When using an AC outlet on a receiver or amplifier, used an "UNSWITCHED" outlet.)

NAMES AND FUNCTIONS OF PARTS

FRONT PANEL

ENGLISH



① Power Switch (POWER)

Press once to turn the power to deck on, and once more to turn the power off.
The deck remains in a standby (non-operative) mode for approximately 2 seconds after it is switched on.

② Eject Button (▲ EJECT)

Press this button to open the cassette compartment cover. When the tape is running, press the STOP (■) button first to stop tape transport, then press the Eject button.

③ Counter Reset Button (COUNTER RESET)

Press this button to reset the tape counter to zero.

⑦ Tape Transport Buttons

▶ (PLAY)	Forward Play Button	Press to Forward playback tape.
◀ (PLAY)	Reverse Play Button	Press to Reverse playback tape.
■ (STOP)	Stop Button	Press to stop the tape in any mode.
◀◀ (REW)	Fast Rewind Button	Press for fast rewind.
▶▶ (FF)	Fast Forward Button	Press for fast forwarding
● (REC) (Deck B only)	Rec Button	Press the REC button and PLAY button simultaneously to start recording. If only the REC button is pressed, the deck enters the Recording Pause mode.
REC MUTE (Deck B only)	Rec Mute Button	Pressing this button in the Recording Pause mode will start Auto Rec Mute, and a 4-second silent space is recorded onto the tape. See page 6.
(PAUSE) (Deck B only)	Rec Pause Button	Press this button to enter the recording pause mode from the recording or recording mute mode. This button can only be used during recording. See page 6.

⑧ Rec Level Control (REC LEVEL)

This knob adjusts the recording input level. It affects the level in both channels. See page 6.

⑨ Cassette Compartment Cover

If the cover is not closed completely, the tape transport buttons will remain inoperative.

⑩ Headphone Jack (PHONES)

For private music enjoyment without disturbing others, or for monitoring a recording, a headphone set may be connected to this jack. Use a headphone with an impedance rating of 8 to 1200 ohms.

④ Dolby NR Switch (DOLBY NR)

To record or playback tapes with Dolby B-type noise reduction, set this switch to "B". Turn it "OFF" when not using the Dolby NR system.

⑤ Reverse Mode Switch (REV MODE)

Select the tape of tape transport. The reverse mode can be set to → (one side), ↔ (both side), ↻ (continuous playback).

⑥ Dubbing Speed Buttons (DUBBING SPEED)

Pressing the NORMAL button starts regular speed dubbing from deck A to deck B. Press the HIGH button to perform dubbing at double speed. See page 7.

⑪ Remote Sensor

With SD4051 the remote control unit is not included. Each of "PLAY, FF, REW, STOP, REC, REC PAUSE, REC MUTE, DIRECTION, COUNTER RESET, DECK A and DECK B" functions can be remote controlled with wireless handset.

NOTE:

Note that only the A deck can be operated with remote control units which have no A/B selector button.

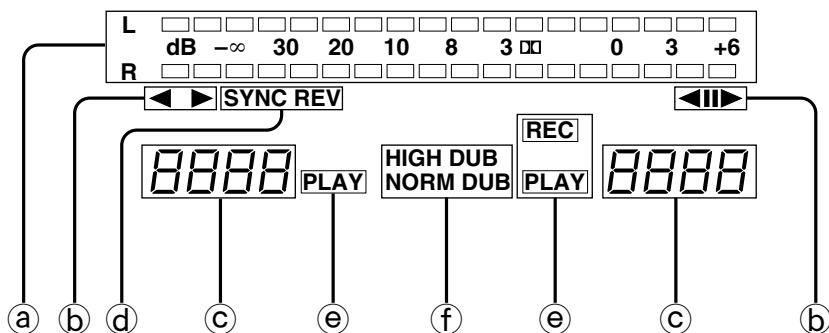
⑫ Syncro Reverse (SYNC REV)

Press this button to set the SYNC REV mode. See page 7.

Caution

Whenever the power switch is in the OFF state, the apparatus is still connected on AC line voltage.
Please be sure to unplug the cord when you leave home for, say, a vacation.

- 13 **Display**
Indicators with an encircled number light up when the corresponding button is pressed.



- (a) Peak Level Meter
- (b) Direction & Pause Indicators
- (c) Multi Counter
- (d) SYNC REV Indicator
- (e) Mode Indicators
- (f) Dubbing Indicators

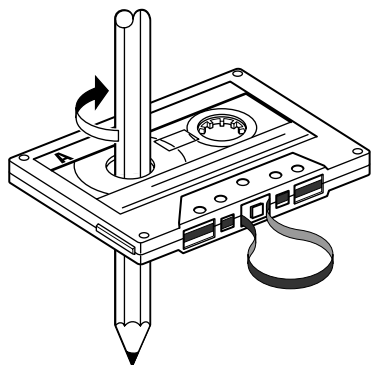
- 14 **PITCH CONTROL Knob**
Used to vary the pitch (key of music) during playback of a cassette. (Only the pitch of Deck A can be varied.)
Turn the PITCH CONTROL clockwise to heighten the pitch by increasing the tape transport speed.
Turn it counterclockwise to lower the pitch by decreasing the tape transport speed.

- 15 **TIMER Switch (TIMER playback/TIMER recording)**
The select switch for use in timer playback or timer recording using an audio timer.
Set this switch to the OFF position when timer playback or timer recording is not required.

CASSETTE TAPES

■ Handling Precautions

- C-120 Cassettes
C-120 cassette tapes are not recommended as they use a very thin tape base which may become tangled around the capstan or pinch roller.
- Tape Slack
Before putting a tape into the deck, take up any slack with a pencil or your finger tip. This precaution prevents the tape from becoming entangled around the capstan or pinch roller.

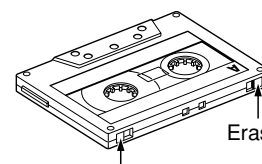


■ Storage Precautions

- Do not store cassette tapes in a place where they will be subject to:
 - Extremely high temperature or excessive moisture
 - Excessive dust
 - Direct sunlight
 - Magnetic fields (near TV sets or speakers)
- To eliminate tape slack, store your cassettes in cassette cases with hub stops

■ Accidental Erasure Prevention

- All cassettes have erasure prevention tabs for each side. To protect valuable recordings from accidental or inadvertent erasure, remove the tab for the appropriate side with a screwdriver or another tool.
- To record on a tape whose erasure prevention tabs have been removed, cover the tab holes with adhesive tape.



Erasure prevention tab for side A
Erasure prevention tab for side B

AUTOMATIC TAPE SELECTION



This Stereo Cassette Deck contains an automatic tape selector which automatically selects the optimum bias and equalization for the tape in use. This is accomplished by detection of the tape type detection holes in the cassette housing.

Caution

This machine plays metal tapes (EQ: 70μ, High Position), but cannot record on them.

PLAYBACK

- The operations described below apply to deck A and deck B alike.
- Switch on your amplifier or receiver.
- Set the Tape Monitor switch on your amplifier or receiver to the TAPE position.
- The numbers in the illustration below depict the order in which operation steps are carried out.

1. Press the **POWER** switch ① to the ON () position.
2. Press the **EJECT** () button ② to open the cassette compartment cover ⑨.
3. Load the cassette tape and close the cassette compartment cover ⑨.
4. When listening to a tape that has been recorded with Dolby noise reduction, set the **DOLBY NR** switch ④.




Note:



SD4051 does not available Dolby C.









5. Select the type of tape transport with the **REV MODE** switch ⑤.






Mode	Switch position
To listen to one side only	
To listen to playback of both sides	
To listen to continuous play back of both sides and both decks.	

6. Press the **PLAY** button ⑦ ( or ) to being playback.


Transport Direction	Indicator
Forward	
Reverse	

7. Press the **STOP** () button ⑦ to stop the playback.
 - In the continuous playback mode (REV MODE set to ), playback of both tape sides will be repeated 5 times and then stop automatically.
 - If different types of Dolby noise reduction are used for record and playback, playback response will be adversely effected.
 - When power is turned off during tape transport, it may not be possible to remove the cassette by pressing the **EJECT** () button ②. In this case, turn on power again before you press the **EJECT** () button ②.

- **RELAY PLAY** (continuous playback of the tapes in deck A and deck B)
 - Load a cassette tape into deck A and B, and set the Dolby NR switch ④ correctly.

1. **REV MODE** set to  ⑤.
2. Press the **PLAY** () button ⑦ of the deck you first wish to listen to.
3. To stop relay play, press the **STOP** () button ⑦ of the deck currently playing the tape.
 - Relay play will play deck A and B in succession for 5 times, upon which playback stops (Deck A → Deck B → Deck A → Deck B → Deck A) or (Deck B → Deck A → Deck B → Deck A → Deck B).

RECORDING (DECK B ONLY)




- Switch on your amplifier or receiver and the source component.
 - Set the Tape Monitor switch on your amplifier or receiver to the SOURCE position.
1. Press the **POWER** switch ① to the ON () position.
 2. Load the cassette tape ②, ⑨ (Check that the erasure prevention tabs of the cassette housing have not been broken off.)
 3. Select the **DOLBY NR** switch ④ to OFF or B.







Note:

SD4051 does not available Dolby C.






4. Select the type of tape transport with the **REV MODE** switch ⑤.

Mode	Switch position
To record on only one side	
To continuously record on both sides	 or 

5. Press the **REC** () button ⑦ to set the recording pause mode. The **REC** and **II** indicator will light up.
6. Adjust the recording level with the **REC LEVEL** control ⑧ while watching the Peak Level Meter.
7. Press the **PLAY** () button ⑦ to start the recording. The **PLAY** and the **REC** Indicator will light during recording.
8. To pause the recording, press the **PAUSE** () button ⑦. Press the **PLAY** () or **PAUSE** () button ⑦ to resume recording.
9. To stop recording, press the **STOP** () button ⑦.

Caution:

- Be careful not to erase important recordings by mistake. Inadvertent start of recording will happen in the following cases:
 1. If the **PLAY** () button ⑦ is pressed while the **REC** indicator lights, recording starts.
 2. If the **PLAY** () and **REC** () button ⑦ are pressed at the same time, recording starts.
- The best way to avoid accidental erasure is to break off the two erasure prevention tabs on the cassette housing.

- **PROPER RECORDING LEVEL**

A too high recording level can saturate the tape and cause distortion. On the other hand, if the recording level is set too low, soft passages will be marked by residual noise. A proper recording level is the single most important factor for making well balanced recordings.


Guideline for maximum recording level

TYPE I (Normal)	0 dB level on peaks
TYPE II (High position)	+1 dB level on peaks


Note:

The optimum recording level differs depending on the program source and the type of tape used.




- **REC MUTE AND REC PAUSE Button**



1. To record a 4-second blank section during recording: Press the **REC MUTE** button ⑦. A 4-second blank will be recorded and the deck will enter the recording standby mode.
2. To record a 4-second blank section during the recording standby mode: Press the **REC MUTE** button ⑦ from the recording standby mode. A 4 second blank will be recorded and the deck will enter the recording standby mode again.
3. To cancel recording of blank space: Press the **PAUSE** () button ⑦. Blank space recording will be canceled and the deck enters the recording standby mode.
4. To extend the blank section with another 4 seconds or more: Simply press the **REC MUTE** button ⑦ and the blank section will be increased with another 4 seconds.

DUBBING (FROM DECK A TO DECK B)

- Switch on the amplifier or receiver.
 - Set the Selector on your amplifier or receiver to the TAPE or Tape monitor position.
1. Press the **POWER** switch ① to the ON () position.
 2. Load the cassette tape to be played on deck A and the one to be recorded in deck B ②, ⑨.
 3. Select the type of tape transport with the **REV MODE** switch ⑤.








Reverse mode	Operation
	Dubbing is performed only for one side. The decks stop when either deck A or B reaches the end of the tape.
 or 	The tape direction is reversed on each deck when they reach the end of the tape. (This is convenient for dubbing to a tape with a different length.)

4. To begin normal speed dubbing, press the **DUBBING SPEED NORMAL** button ⑥. The NORM DUB indicator will light at this time.
To high speed dubbing, press the **DUBBING SPEED HIGH** button ⑥.
The HIGH DUB indicator will light at this time.
5. To stop dubbing, press the **STOP** () button ⑦ of deck A or deck B.
 - When dubbing, the recording level and the Dolby NR recording will be the same as those of the playback tape, regardless of the positions of the **REC LEVEL** control ⑧ and the **DOLBY NR** switch ④.
 - When listening to the playback sound during normal speed dubbing, the **DOLBY NR** switch ④ remains off even if it is pressed.
 - Operation using the **REC MUTE** and **PAUSE** () buttons ⑦ of deck B is permitted during normal speed dubbing.




SYNCRO REVERSE DUBBING

During dubbing of the side facing you, the deck that first reaches the end of the tape will stand by until the other deck reaches the end of the tape, direction together.
(Depending on the manufacturer, the length of tapes having the same recording time may differ somewhat. Setting this mode permits the arrangement of the beginning portion of the opposite side of the tape.)

1. Press the **POWER** switch ① to the ON () position.
2. Load the cassette tape to be played on deck A and the one to be recorded in deck B ②, ⑨.
3. Select the  position of the **REV MODE** switch ⑤.
4. Press the **SYNC REV** button ⑫ to set the SYNC REV Mode.
The SYNC REV Indicator will light up.
To release SYNC REV mode, the **SYNC REV** button is pushed again.
When direction of Deck A and Deck B is only Forward (), the SYNC REV mode can be set.
5. To begin normal speed dubbing, press the **DUBBING SPEED NORMAL** button ⑥. The NORM DUB indicator will light at this time.
To high speed dubbing, press the **DUBBING SPEED HIGH** button ⑥.
The HIGH DUB indicator will light at this time.

6. To stop dubbing, press the **STOP** () button ⑦ of deck A or deck B.
 - When dubbing, the recording level and the Dolby NR recording will be the same as those of the playback tape, regardless of the positions of the **REC LEVEL** control ⑧ and the **DOLBY NR** switch ④.
 - When listening to the playback sound during normal speed dubbing, the **DOLBY NR** switch remains off even if it is pressed.
 - Operation using the **REC MUTE** and **PAUSE** () buttons ⑦ of deck B is permitted during normal speed dubbing.

SYNCHRO RECORDING PROCEDURE (DECK B)

- The following operation is available only when a MARANTZ CD player with the synchro recording capability is connected to the cassette deck.
 - To use synchro recording, connect the remote control cord terminals on the CD player and cassette deck.
1. Load a cassette tape in Deck B.
 2. If Dolby NR recording is required, select type B.
 3. Press the **REC** () button ⑦ to put the cassette deck in record-pause mode.
 4. Adjust the recording level with the **REC LEVEL** control ⑧.
 5. Start edit playback of the CD player. (The operation procedure may be variable between CD players with edit function. Refer to the instruction manual of your CD player.)
 - When the MARANTZ CD player (EX. CD5001) is used, be sure to set the **REV. MODE** switch to ⑤ "  ". (This causes both tape sides A and B to be recorded automatically.)
 - When other MARANTZ CD player than the above mentioned models is used, set the **REV. MODE** switch ⑤ to "  ". (This causes only tape side A or B to be recorded.)

TAPE COUNTER

1) Operation of the Tape Counter

- (1) Press the COUNTER RESET button ③ to reset the counter to "0000".
- (2) By using the PLAY, FF, or REW functions, the reading of the counter will change to indicate index position.
 - During recording and playback operations, the counter is useful for noting the location of existing programs or positions where recording is to be started.
 - The reading of this counter does not correspond with that of any other deck.

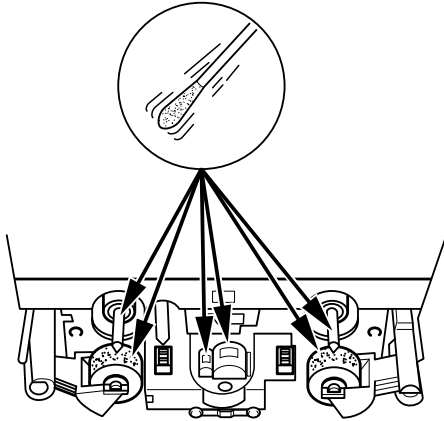
MAINTENANCE

■ Head cleaning

After long usage, tape coating or dust may adhere to the heads, causing deterioration of sound. Therefore, the parts depicted in the illustration should be cleaned regularly. Use a cotton swab moistened with a tape head cleaning solution (such as alcohol).

Notes:

1. Some cleaning cassettes on the market have strong abrasive effects and may scratch the heads. Always use cotton swabs instead of cleaning cassettes.
2. Since the use of metal tape is apt to collect more dust on the heads, the heads should be cleaned more often to enjoy the best possible sound.



■ Cleaning the Pinch Rollers and Capstans

If the pinch roller or capstans accumulate dust, tape transport may become unstable, as a result from slippage, during recording or playback. The tape can also be damaged if it gets entangled in the capstan.

Clean these parts with a cotton swab or a soft cloth moistened with a tape head cleaning solution (such as alcohol).

■ Demagnetizing the Heads

The heads may become magnetized after long usage or if strongly magnetized objects are brought near them. The result is a generation of noise, loss of the high frequency range, and in extreme cases erasure of trable components on pre-recorded tapes in combination with added noise.

Thus, the heads should be demagnetized at regular intervals. (Head demagnetizers are sparately available from your dealer.)

■ How to Demagnetize the Tape Heads

1. Turn off the power.
2. Turn on the demagnetizer while it is at least 30 cm away from the heads. Bring the demagnetizer near the heads and slowly move it in small circles four or five times in front of each head, making sure you do not touch them.
3. Slowly move the demagnetizer away and turn it off when it is at least 30 cm away from the heads.

■ CAPABILITY OF REMOTE CONTROL

	RC-5 CODE
PLAY (▶)	1853
FF (▶▶)	1852
REW (◀◀)	1850
PAUSE ()	1848
STOP (■)	1854
REC (●)	1855
REC MUTE	1842
COUNTER RESET	1849
DECK A	1844
DECK B	1846
DIRECTION (◀▶)	1847

TROUBLESHOOTING

Check the following before you draw the conclusion that your Stereo Cassette Deck is malfunctions.

1. Are all the connections correct?
2. Are all system components being operated correctly in accordance with the operating instructions?
3. Are the speakers and amplifier/receiver functioning correctly?

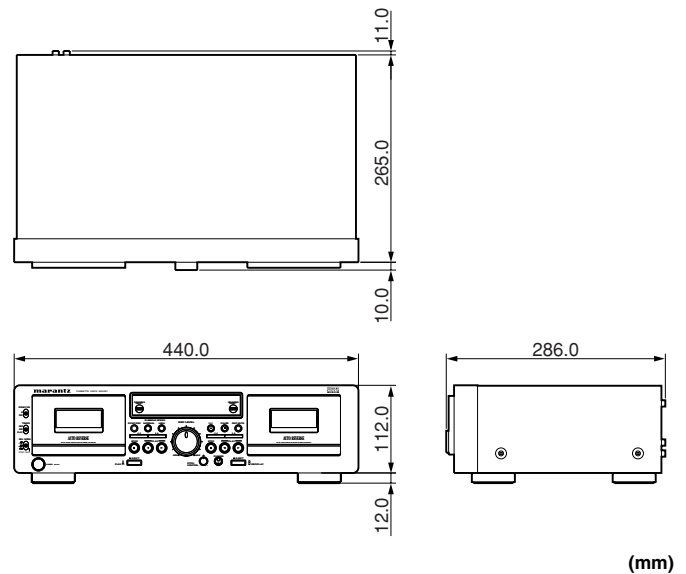
If the tape deck still does not function properly, check the symptom against the list below. If the symptom does not correspond to the check list, please contact your **MARANTZ** dealer.

Problem	Cause	Remedy
Tape does not run.	<ul style="list-style-type: none"> ● Power cord is disconnected. ● Tape is loose. ● Cassette is not loaded properly. ● Defective cassette. 	<ul style="list-style-type: none"> ● Check power cord. ● Tighten tape with a pencil, etc. ● Load cassette properly. ● Replace cassette.
Tape is not recorded when REC MUTE button is pressed.	<ul style="list-style-type: none"> ● No cassette is loaded. ● Erase prevention tabs are broken off. 	<ul style="list-style-type: none"> ● Load cassette. ● Cover hole with plastic tape.
Sound is warbled or distorted.	<ul style="list-style-type: none"> ● Heads, capstan or pinch roller are dirty. ● Tape is wound too tight. ● Recording input level is too high. ● Tape is worn out and has "dropouts". 	<ul style="list-style-type: none"> ● Clean them. ● Fast forward or rewind to loosen tape winding. ● Adjust recording input level. ● Replace tape.
Excessive noise.	<ul style="list-style-type: none"> ● Tape is worn. ● Heads, capstan or pinch roller are dirty. ● Heads are magnetized. ● Recording input level is too low. 	<ul style="list-style-type: none"> ● Replace tape. ● Clean them. ● Demagnetize heads. ● Adjust recording input level.
High frequency range (treble) is emphasized.	<ul style="list-style-type: none"> ● Dolby NR switch is set improperly. 	<ul style="list-style-type: none"> ● Set Dolby NR Switch properly.
High frequency range (treble) is lost.	<ul style="list-style-type: none"> ● Heads are dirty. ● Tape is worn. 	<ul style="list-style-type: none"> ● Clean them. ● Replace tape.
The cassette tape cannot be removed.	<ul style="list-style-type: none"> ● If the POWER switch is turned off in either during recording or playback and the unit is stopped, there may be case when the cassette cannot be removed, even if the EJECT (▲) button is pressed. 	<ul style="list-style-type: none"> ● Turn the POWER switch ON (■) again, and then press the STOP (■) button. ● Now, press the EJEC (▲) button to remove the cassette tape.

SPECIFICATIONS

Type	Vertical tape loading; 4-track 2-channel stereo double cassette deck
Heads	Playback head ×1 recording/playback head ×1 Erase head (Double-gap ferrite) ×1
Motors	DC servo motor ×2
Tape Speed	4.8 cm/sec. 9.5 cm/sec. (When high speed dubbing)
Fast Forward, Rewind Time	Approx. 110 sec. with a C-60 cassette
Recording Bias	Approx. 100 kHz
Overall S/N Ratio (at 3% THD level)	Dolby B NR on: more than 68 dB (CCIR/ARM)
Overall Frequency Response	25 ~ 18,000 Hz ±3 dB (at -20 dB, Metal tape Play back)
Channel Separation	More than 40 dB (at 1 kHz)
Wow & Flutter	0.09 % WRMS, ±0.1 % w. peak
Inputs LINE	100 mV input level at maximum Input impedance: 50 kohms unbalanced
Output LINE	460 mV (0 dB) output level at maximum (with 47 kohms load, recorded level of 200 nWb/mm)
PHONES	0.95 mW output level at maximum (optimum load impedance 8 ohms)
Power Requirement	AC 230V 50Hz
Power Consumption	16 W
Dimensions	440 (W) × 124 (H) × 286 (D) mm
Weight	4.0 kg (8.58 lbs.)

■ DIMENSIONS



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