

 **Teleton**

Stereo Music Centre

Operation Manual

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**MODEL
TDC-1500BS**

C.P.Q.S

(Cassette tape Program Quick Sensor)

Thank you for purchasing this unit.
Please read this manual through before operating the unit and keep it
in a safe place for future reference.

WARNING

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS AP-
PLIANCE TO RAIN OR MOISTURE.

IMPORTANT

The wires in this mains lead are coloured in accordance with the follow-
ing code:

Blue:	Neutral
Brown:	Live

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

The wire which is coloured blue must be connected to the terminal
which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal
which is marked with the letter L or coloured red.

This apparatus must be protected by 3 A fuse either in the plug/adap-
tor or at the distribution board.

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SPECIAL FEATURES

Two Cassette Decks in One

The TDC1500 has two cassette decks to make tape dubbing more convenient than ever before. Simply place the original cassette in cassette deck A and the blank cassette in cassette deck B. Since the TDC1500 does it all, there are no more worries about compatibility between different cassette decks and no more troublesome and time-consuming deck-to-deck connections when you want to copy a cassette. The level is even set automatically to guarantee excellent results every time, and a convenient synchro-start switch is provided to make sure both cassette decks are activated at the same instant.

Continuous and Simultaneous Playback Modes

The dual deck construction lets you enjoy two extra tape playback modes. In the continuous mode, one cassette is played back immediately after the other has ended. This doubles uninterrupted playback time. Simultaneous playback plays both tapes at once to combine the two programs into one output signal. You can even add the microphone signal to combine three signals into one. A tape fader control is provided to adjust the balance between the two cassette volume levels. Each cassette compartment is provided with a tape selector so any combination of cassette formulations can be used.

CPQS (Cassette tape Program Quick Sensor)

This function automatically locates the beginning of the next song on the tape or the one currently being played back. All you do so is press the fast forward or rewind button during playback to activate the CPQS. Once the beginning of the song has been located, the deck automatically returns to the playback mode.

- Optimum Recording Level is Automatically Set
- Mic Mixing Capability For Sing-Along Fun
- Illuminated Dial Pointer For Easy FM/MW/LW Tuning
- Soft-Touch Controls
- Signal/Sound Indicators
- Semi-Automatic Turntable For Extra Convenience
- Ample Power Output For Almost Any Need
- LED function indicators
- 3-digit tape counter
- Illuminated power switch
- Air damper
- Recording muting switch
- LED stereo indicator
- LED record mode indicator
- One-touch recording mechanism
- Full auto stop
- Metal tape compatible

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PRECAUTIONS

Avoid exposing this unit to heat generated from ovens and direct radiation as well as to dampness. Keep the ventilation grid clear at all times.

Household AC Power Supply

This unit is designed to be connected to an AC 240 V, 50 Hz power supply.

Antennas

LW/MW: This unit comes with an internal ferrite antenna for normal LW/MW broadcasting signal reception. Additional antennas are, as a rule, not required for reception. Reception may be improved by rotating the unit because of the directional characteristics of the ferrite antenna. Swing it out for optimum reception.

FM: A 300-ohm dipole antenna is supplied with the unit. Connect it to the FM terminal on the unit's rear panel. If you live in an area with steel structures causing problems with FM multipath distortion or in an area where the FM stereo signals have more noise, your unit may require an outdoor antenna.

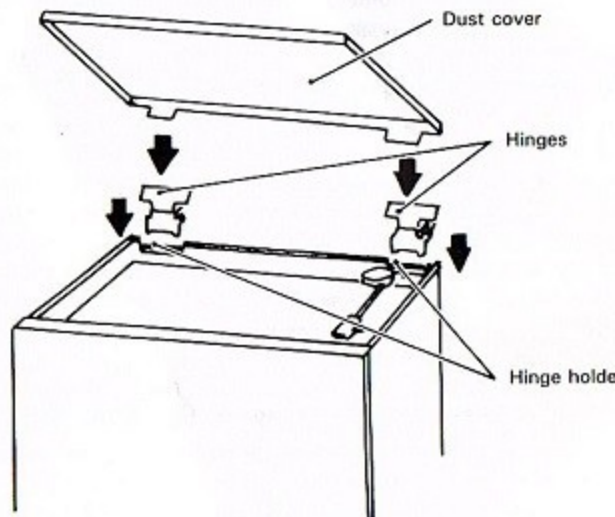
Positioning the speakers

To obtain the best possible stereo effect, the speakers should be placed in the correct positions in relation to the listener. They should be placed at a distance of at least 2.5 meters from each other and should face the listener. The best stereo effect will then be heard at the apex of an imaginary equilateral triangle with the speakers at the base and at a distance which is one and a half times the distance between the speakers.

MOUNTING THE DUST COVER

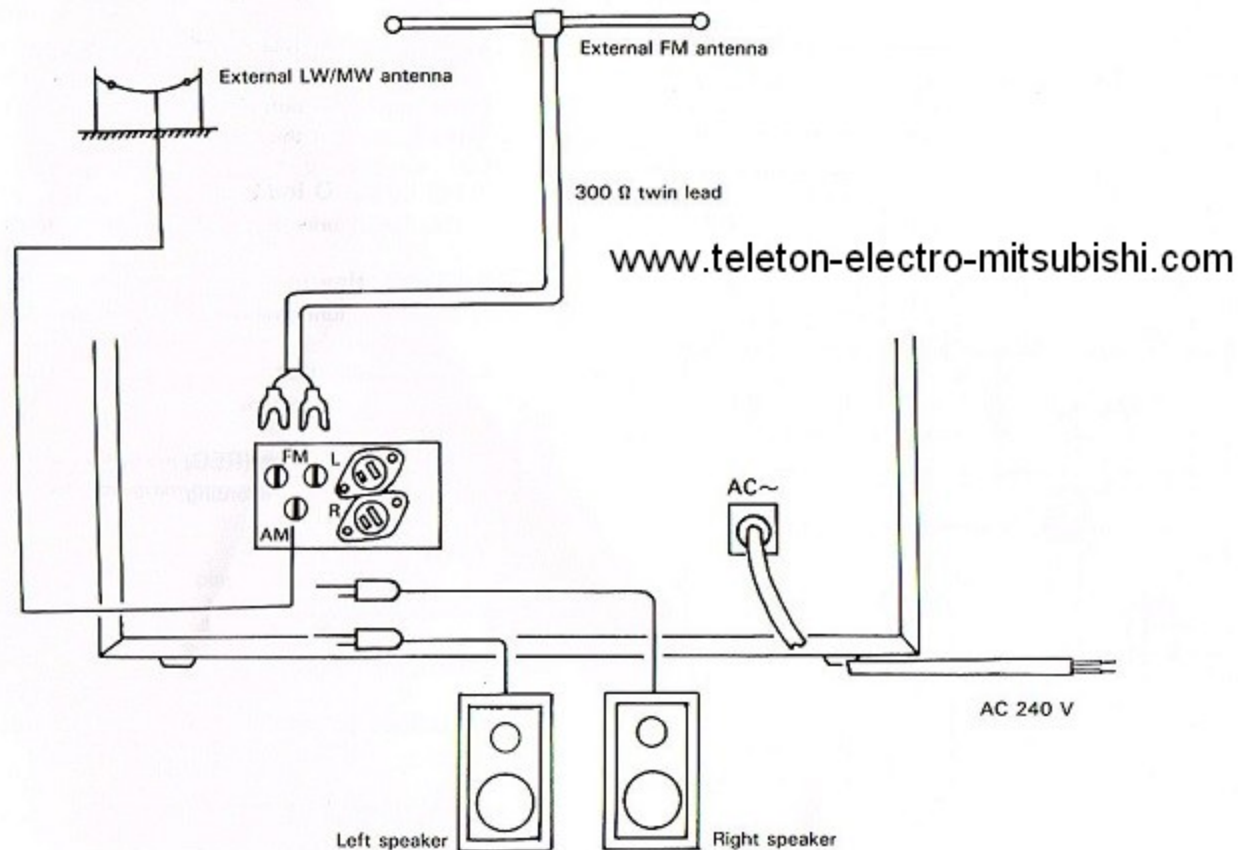
The dust cover and hinges are packed separately from the main unit for transportation.

Fit the hinges into the dust cover hinge holders on the main unit and then slot the dust cover into the hinges.



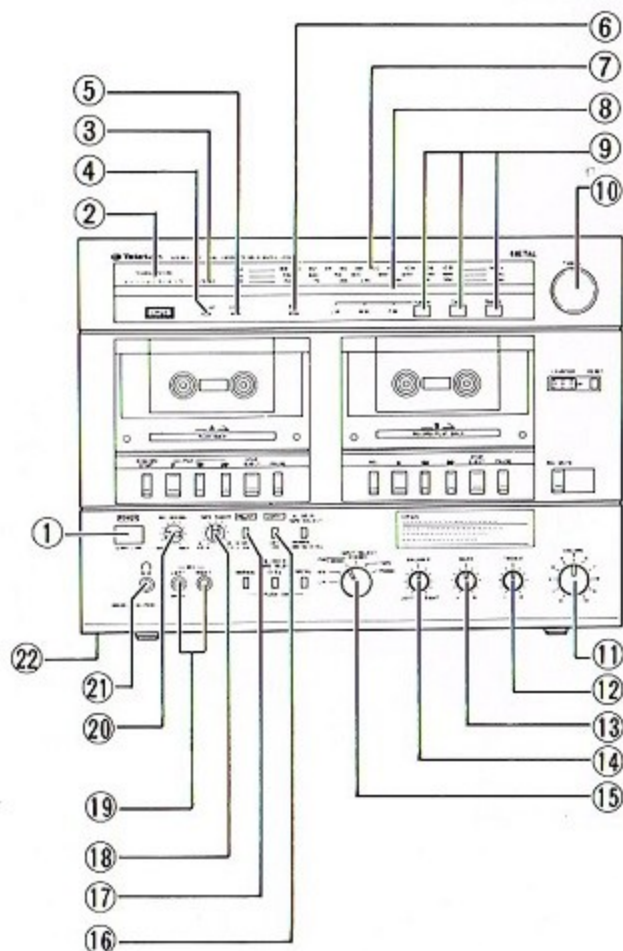
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CONNECTIONS



DESCRIPTION OF CONTROLS-1

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1. POWER switch

Power is supplied to the unit when this switch is set to the ON (—) position.

2. SIGNAL/SOUND level indicator

During FM or AM reception, these 5 LEDs flash in accordance with the reproduced output at the tape or phono position, depending on the strength of the signals.

3. FM STEREO indicator

This lights during FM stereo reception.

4. RELAY play indicator

This lights during relay (continuous) play.

5. COPY indicator

This lights during tape copying.

6. Record indicator (REC)

This lights during recording.

7. Dial scale

8. Dial pointer

9. Function indicators

10. TUNING knob

This is used to tune in the radio stations.

11. VOLUME control

This is used to adjust the volume.

12. TREBLE control

This is used to adjust the treble tone range.

13. BASS control

This is used to adjust the bass tone range.

14. BALANCE control

This is used to balance the volume of sound delivered through the left and right channels.

15. Function switch (INPUT SELECT)

This is set to the position that corresponds to the program source which is to be heard.

TAPE: For tape play.

PHONO: For record play.

MW: For MW reception.

LW: For LW reception.

FM: For FM reception.

FM STEREO: For FM stereo reception.

16. COPY switch

Set this switch to ON (■) when copying a tape from deck A to deck B while listening to a radio program or a record.

17. RELAY play switch

This is used for continuous (RELAY) play on decks A and B.

Note: Keep this switch at OFF (■) when the relay play function is not being used.

18. TAPE FADER control

This is used to adjust the balance in the deck A and deck B volumes.

19. MIC jacks

Connect low-impedance (around 600 ohms) microphones to these jacks.

Note: Always disconnect the microphones from these jacks when they are not being used.

20. Mic volume control (MIC MIXING)

This is used for mic mixing. When no sound is being mixed, keep this control at the "MIN" position.

21. Phones jack

When headphones are connected to this jack, the sound is cut off from the speakers and you can listen to the program privately. Use low-impedance (8–16 ohms) headphones.

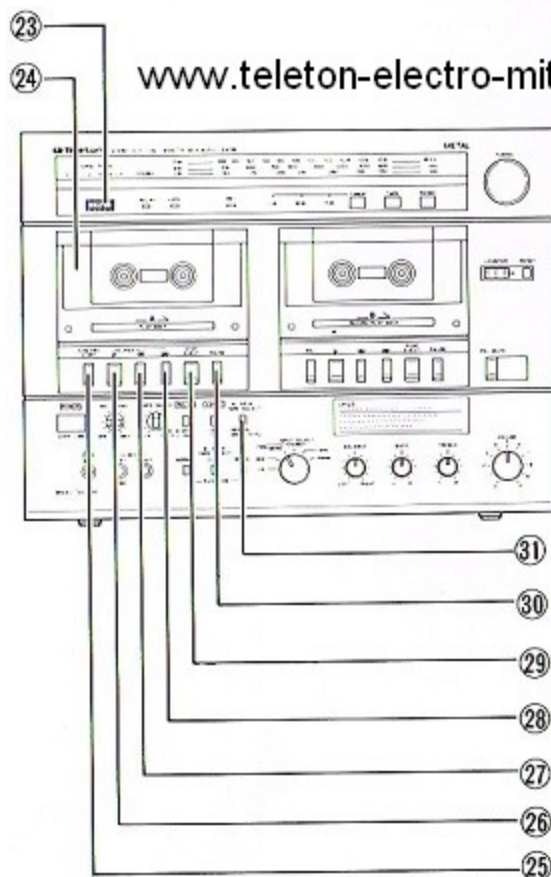
Note: When using the headphones, set the volume to a level which does not hurt your ears.

22. Beat cut switch

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DESCRIPTION OF CONTROLS-2 (Cassette Deck Section)

—Deck A section (playback only)—



23.C.P.Q.S. automatic program search indicator

This lights when the auto program search mechanism is operating.

24.Cassette holder

The cassette tape is inserted into this holder.

25.SYNCHRO START button

This is used when copying tapes or when playing tapes at the same time.

26.Play (▶) button

Press this for tape playback.

27.Rewind (◀◀) button

Press this to rewind the tape.

28.Fast forward (▶▶) button

Press this to fast forward the tape.

29.STOP/EJECT button

Use this to stop the tape or to insert or eject the tape.

30.PAUSE button

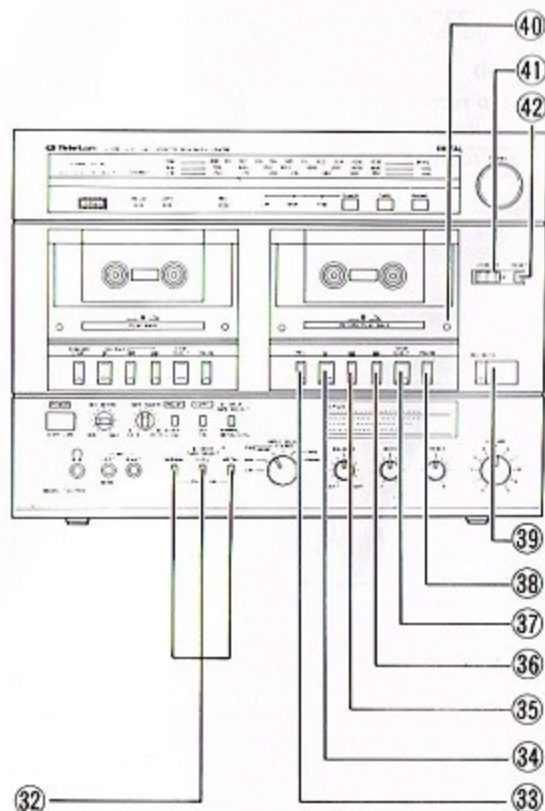
Use this only when stopping temporarily the tape during playback. When it is released, the pause function is released.

31.Tape selector switch (A-DECK TAPE SELECT)

Set this to the position that corresponds to the type of tape being used for playback. Set it to NORMAL (■) when using a normal tape; set it to METAL/CrO₂ (■) when using a chrome or metal tape.

DESCRIPTION OF CONTROLS-3

—Deck B section (recording/playback)—



32. Tape selector switches (B-DECK TAPE SELECT)

Set this to NORMAL, CrO₂ or METAL, depending on the type of tape which is being used.

33. REC button

Use this for recording sound.

34. Play (▶) button

35. Rewind (◀◀) button

36. Fast forward (▶▶) button

37. STOP/EJECT button

38. PAUSE button

39. REC MUTE button

Use this button when recording music, for instance, off the air and creating unrecorded blanks between the programs on the tape.

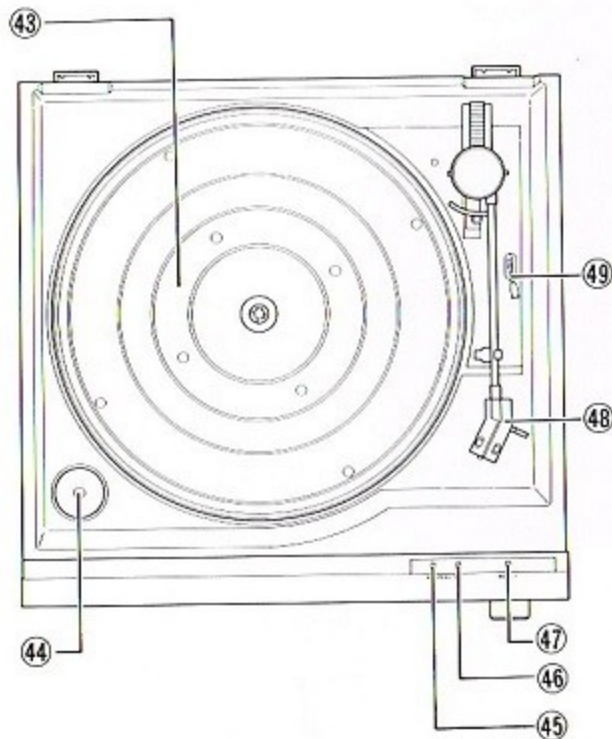
40. Cassette holder

41. Tape counter (COUNTER)

42. RESET button

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DESCRIPTION OF CONTROLS-4 (Turntable section)



43. Turntable

44. Record adaptor

Use this for records without a middle.

45., 46. SPEED selectors

Press "45" or "33" in line with the record's rated speed.

47. REJECT knob

Use this to stop record play at any time.

When pressed, the pickup returns automatically to the rest and the turntable stops rotating.

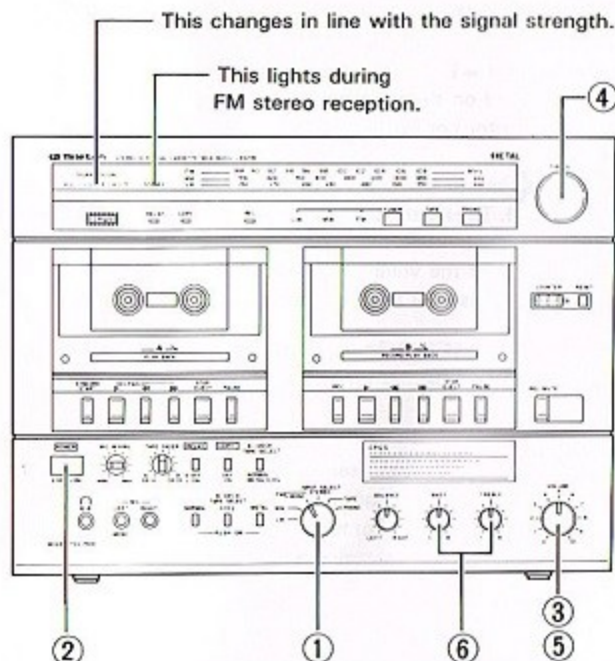
48. Pickup

49. Arm lifter

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LISTENING TO RADIO PROGRAMS

Operate in the numerical order.



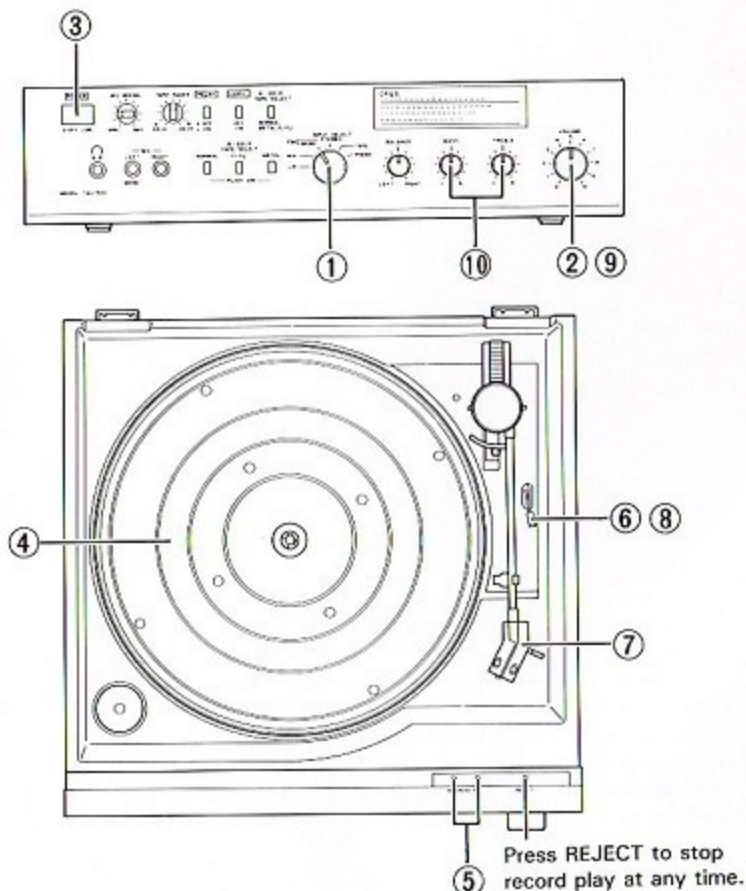
1. Set this to LW, MW or FM. Set to MONO when FM stereo reception is impaired by noise.
2. Set this to ON (—).
3. Set this to a volume level suitable for tuning in stations.
4. Tune in the station with this.
5. Use this to adjust the volume as desired.
6. Use these to adjust the tone as desired.

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Note

If the unit is being used for AM reception while you are watching a TV located nearby, a high-pitched noise may be heard. In cases like this, place the unit as far away as possible from the TV set.

PLAYING RECORDS Operate in the numerical order.



1. Set this to PHONO.
2. Set this to 0.
3. Set this to ON (—).
4. Place the record on the turntable.
5. Press the selector corresponding to the record's rated speed.
6. Set this to (♩).
7. Move this across to the desired track on the record.
8. Set this to (♩). The cartridge now descends onto the record and play begins.
9. Use this to adjust the volume as desired.
10. Use these to adjust the tone as desired.

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Note

When play is completed, the cartridge returns automatically to the rest and the platter stops rotating.

USING THE CASSETTE RECORDER

Recordings on tape from records or copies of tapes made by your recorder may be used for your personal enjoyment. They may not be used, however, in a way which will infringe the rights of copyright owners and be contrary to law.

HINTS ON CASSETTE TAPES

Tape Slack

Tape slack may be produced when cassette tapes are carried around or subjected to vibration during handling. Using a tape which is slack can result in tape jamming and damage. Always take up the slack with a pencil or other object before use.



Do not touch the actual surface of the tape.

Any dirt, no matter how small, will result in distorted sound and noise.

Using thin tapes (C-120)

C-120 tapes (120 minutes on both sides combined) are extremely thin, causing the tape to jam when the pinch roller is dirty. In order to prevent this, do not use C-120 tapes unless absolutely necessary.



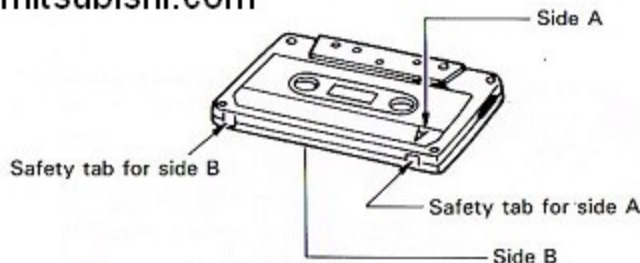
Storing tapes

- * Avoid locations exposed to high temperature and humidity levels and direct sunlight.
- * Place tapes at a distance from speakers, TV sets and TV monitors since their magnetism will have an adverse effect on the sound quality.
- * Always wind up the tapes properly before storing them away. Storing tapes after fast forwarding or rewinding will result in unnecessary extension of the tape.

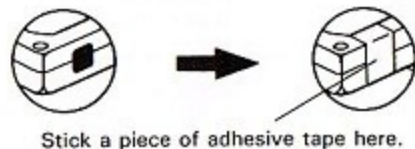
ACCIDENTAL ERASURE PREVENTION TABS

Every cassette tape is provided with two safety tabs to prevent accidental erasure (see figure).

To preserve important recordings, break out these tabs using a screwdriver or similar object so that they will not be erased accidentally. Once these tabs have been broken out, the accidental erasure prevention mechanism is activated and it will no longer be possible to press the REC button.



Place a piece of adhesive tape over the safety tab opening to re-record on a cassette whose tabs have been broken out.

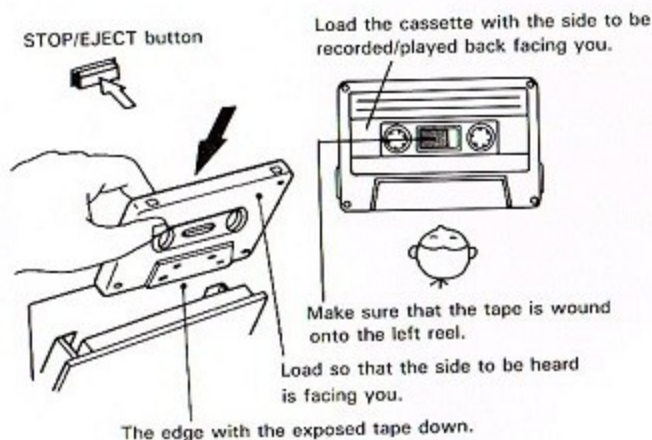


FULL AUTO-STOP MECHANISM

This unit comes with a handy full auto-stop unit. When the tape has been fully taken up in any mode — whether recording, playback, fast forward or rewind — the function button(s) is automatically released. This serves to prevent the tape from being damaged.

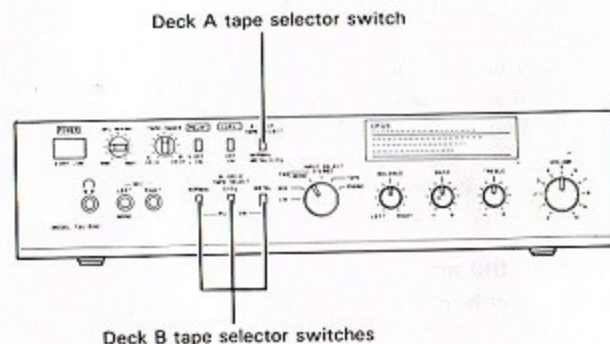
LOADING THE CASSETTE TAPE

1. Open the cassette holder by pressing the cassette STOP/EJECT button.
2. Load the cassette tape into the holder, checking that the tape is wound up onto the left reel.
3. Close the cassette holder by pushing it until it clicks into position. Unless the holder is pushed back into its proper position, the tape will not move even when the cassette function buttons are pressed.



TYPES OF TAPES AND TAPE SELECTOR SWITCHES

Set the positions of the tape selector switches in accordance with the type of tape being used in order to record and play back sound with a good sound quality. These switches serve to select the optimum bias and equalization in order to do full justice to the tape characteristics. If the switches are set incorrectly, the sound quality may be impaired and the recording may be insufficient.



Set the positions of the tape selector switches to correspond to the type of tape being used.

Type of tape	Deck A Tape selector switch	Deck B Tape selector switch	
		Playback	Recording
Normal tapes	NORMAL	NORMAL	NORMAL
Chrome tapes	METAL/CHROME	CHROME	CHROME
Ferrichrome tapes	METAL/CHROME	CHROME	NORMAL
Metal tapes	METAL/CHROME	METAL	METAL

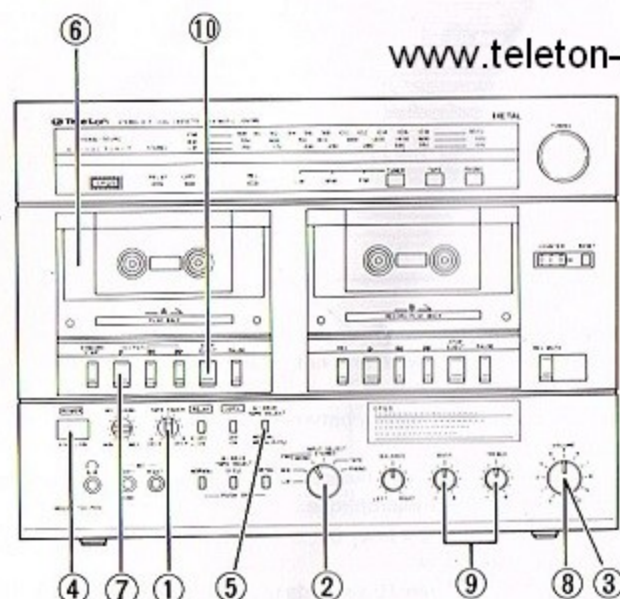
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PLAYING BACK TAPES

Operate in the numerical order.

This unit comes with two decks, deck A and deck B. Deck A is used for playback only while deck B can be used for both tape playback and recording.

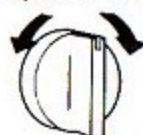
Deck A is used in the example below.



1. Tape fader control

- When rotated clockwise, the deck A volume is reduced; when rotated counterclockwise, the deck B volume is reduced.
- For normal use, keep the fader control at its center position.

Tape fader control



2. Set this to TAPE.

3. Set this to 0.

Volume control



4. Set this to ON (—).

5. Set to the position corresponding to the type of tape being used.

6. Load the tape and close the cassette holder.

7. Push this. (Playback now begins.)

8. Use this to adjust the volume as desired.

9. Use these to adjust the tone as desired.

10. Press this once playback is completed.

TAPE COUNTER

The numbers on the counter change as the tape travels. When recording from the start of the tape, press the RESET button before starting to record to reset the counter to "000". If you make a note of the programs recorded on the tape and the corresponding numbers on the counter, you will then be able to use those numbers as a guideline to locate the programs by fast forwarding and rewinding the tape and also to locate the part of the tape where recording can start next.

- The tape counter is provided with deck B only.

C.P.Q.S. (Cassette tape Program Quick Sensor)

The C.P.Q.S. function locates the programs on the tape which you want to hear by finding the unrecorded blanks between the programs. When the fast forward (⏮) or rewind (⏭) button is pushed in the playback mode, playback starts automatically at the start of the desired program. This function comes in handy for finding favorite programs immediately or for listening to the same program over and over again. One operation will fast forward or rewind the tape for one program only. To skip a number of programs, repeat operation by the same number.

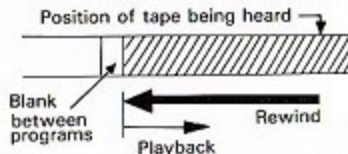
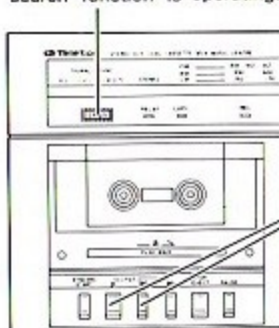
USING THE C.P.Q.S. FUNCTION

.....Operate in the numerical order.

Use deck A for automatic program search.

* Listening to the program now being heard again.

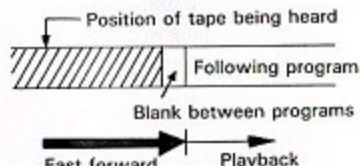
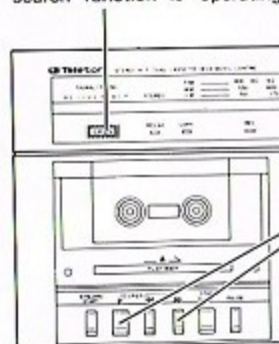
This lights when the program search function is operating.



Press the REWIND button (⏭) in the playback mode. (This activates the auto program search function.) When the start of the program is reached, the REWIND button is released and playback starts.

* Listening to the program following that being heard.

This lights when the program search function is operating.



Press the FAST FORWARD button (⏮) in the playback mode. (This activates the auto program search function.) When the start of the program is reached, the FAST FORWARD button is released and playback starts.

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Note

The program search function may not work properly in the following circumstances. This is normal and not an indication of a malfunction or failure.

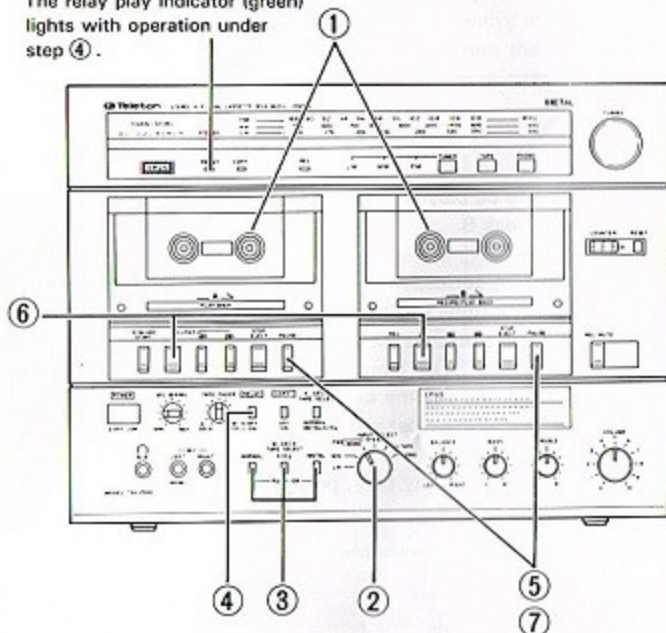
- When the unrecorded blanks between the programs are less than 4 seconds long.
- When no signals have been recorded (blanks) with material recorded on the tape with a microphone.
- When the sound during a program is very low or there are sections with unrecorded sound.
- When there are less than 10 seconds until the start of the next program (when the function is activated during a program being heard and you want to listen to the next program).

RELAY TAPE PLAYBACK Operate

in the numerical order.

"Relay tape playback" involves the continuous playback of two cassette tapes, with one being played back after the other.

The relay play indicator (green) lights with operation under step ④.



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1. Load the tapes to be played back in relay into the cassette holders of deck A and deck B.
2. Set this to TAPE.
3. Set to the position corresponding to the type of tape being used.
4. Set the RELAY switch to ON (—).
5. Press the PAUSE buttons of deck A and deck B.
6. Press the deck A PLAY (▶) button and the deck B PLAY (▶) button.
7. Release the PAUSE button corresponding to the tape which to be played first. Tape play now begins and upon completion, the other tape is played back automatically.
8. Take out the tape which has already been played, load the next tape and press the PAUSE and PLAY (▶) buttons.

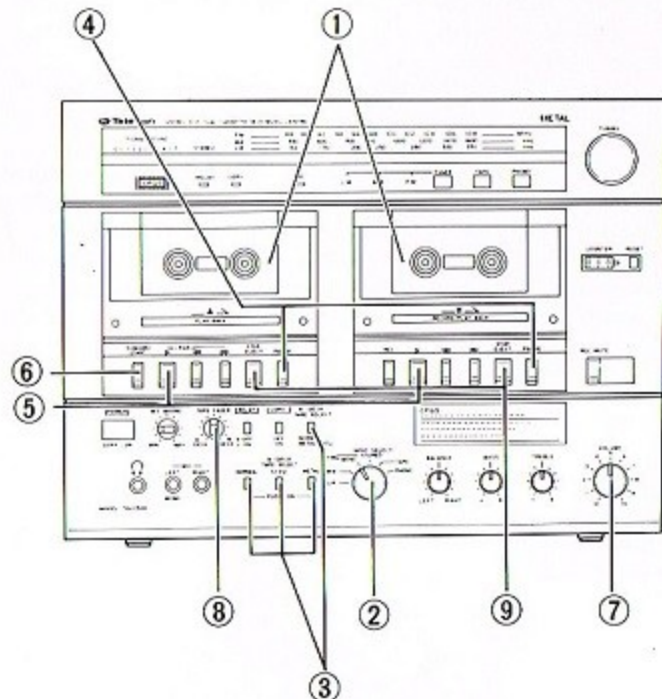
Press the STOP buttons of both decks to stop relay play.

SIMULTANEOUS TAPE PLAY Operate

in the numerical order.

“Simultaneous tape play” involves playing back two tapes at the same time when, for instance, playing back music on deck A and narration on deck B or when loading a language practice tape in deck A and a tape recording your own pronunciation in deck B and comparing the two.

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1. Load the tapes to be played simultaneously into the cassette holders of deck A and deck B.
2. Set this to TAPE.
3. Set to the position corresponding to the type of tape being used.
4. Press the pause buttons of deck A and deck B.
5. Press the PLAY (▶) buttons of deck A and deck B.
6. Press the SYNCHRO START button.
7. Use this to adjust the volume as desired.
8. Adjust this to achieve the desired balance between the volume levels of deck A and deck B.
9. To stop the playback at any time, press the STOP buttons of deck A and deck B.

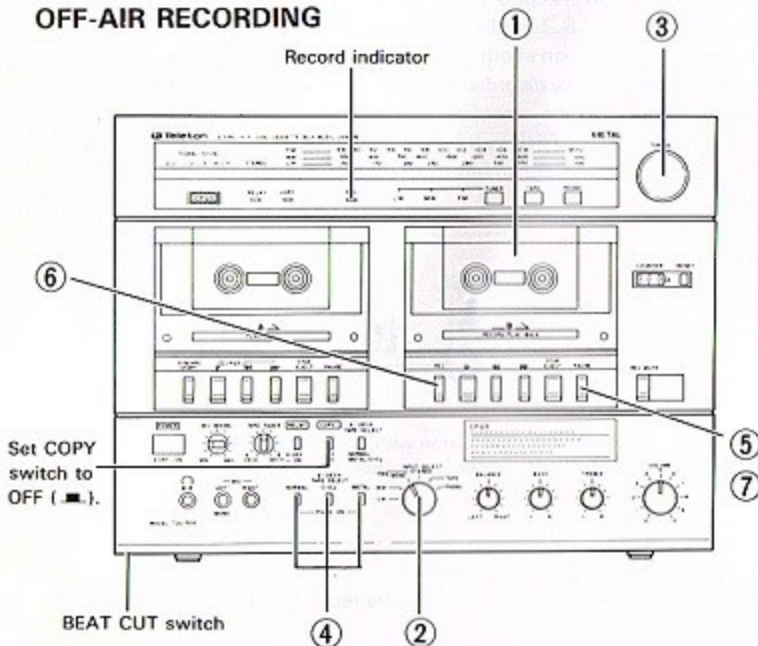
RECORDING TAPES

Recordings on tape may be used for your personal enjoyment. They may not be used, however, in a way which will infringe the rights of copyright owners and be contrary to law.

Recording is possible on deck B only.

This unit has a built-in automatic level control which enables the sound you can hear from the speakers to be recorded at the optimum level. This means you can record without having to worry about the recording level and the volume level of the sound from the speakers.

OFF-AIR RECORDING



Note

- As an aid for playback, press the reset button to reset the TAPE COUNTER to "000".
- Previous recordings will be erased automatically with every new recording.
- Recording can be made on two of the tape tracks at a time. After recording on one side, remove the cassette, turn it over, insert it as described above and proceed to record on the second half of the tape.

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1. Push the deck B STOP/EJECT button to open the cassette holder, load the cassette tape for recording and close the cassette holder.
2. Set this to FM, FM STEREO, LW or MW.
3. Tune in the desired station using the TUNING knob.
 - Adjust so that the maximum number of signal indicator LEDs light with AM or FM reception.
4. Set to the position corresponding to the type of tape being used.
5. Press the PAUSE button.
6. Press the REC button.
 - The record lamp now lights.
7. Recording begins once the PAUSE button is released.

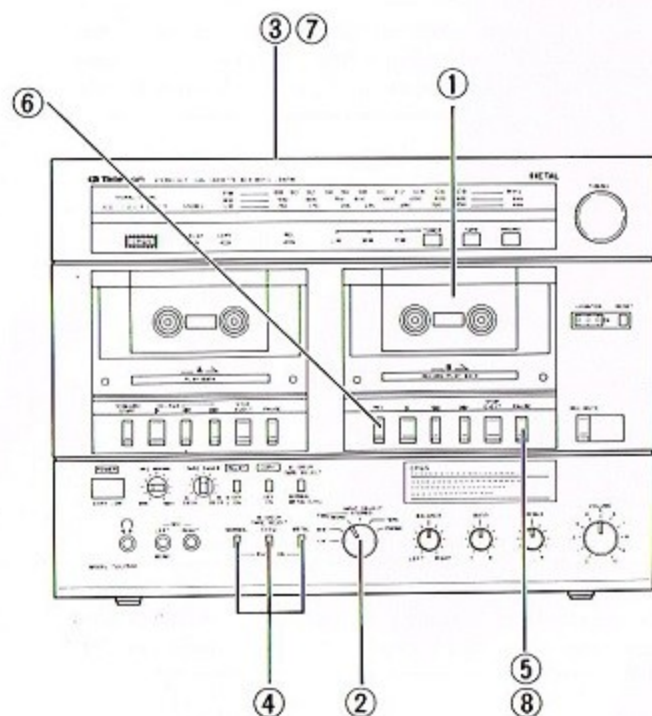
Note

- The tape stops automatically when the tape has been fully wound up.
- Press the STOP/EJECT button to stop the recording at any time.

BEAT CUT switch

When recording AM programs off the air or when beat noise and interference, not heard before the recording, become noticeable, set this switch to the "••" or "•••" position, whichever is more effective in suppressing the beat noise and interference.

RECORDING FROM THE TURNTABLE Operate in the numerical order.

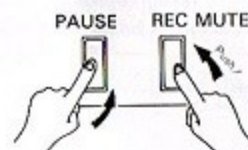


1. Press the deck B STOP/EJECT button to open the cassette holder, load the recording cassette tape and close the cassette holder.
2. Set this to PHONO.
3. Follow steps ① through ⑦ in "PLAYING RECORDS".
4. Set to the position corresponding to the type of tape being used.
5. Press the PAUSE button.
6. Press the REC button.
7. Set the arm lifter to (X).
8. Recording begins once the PAUSE button is released.

CREATING UNRECORDED BLANKS (Using the REC MUTING button)

When this button is pushed during recording, no sound is recorded for as long as the button is kept depressed. This is used for creating unrecorded blanks. The C.P.Q.S. function will work as long as there are unrecorded blanks of not less than about 4 seconds not only on music tapes but also on the tapes you have recorded yourself. Operate as instructed below after setting the unit to the recording mode.

1. Keep the REC MUTING button depressed for between 4 and 6 seconds after the program which has been recorded and then push the PAUSE button.

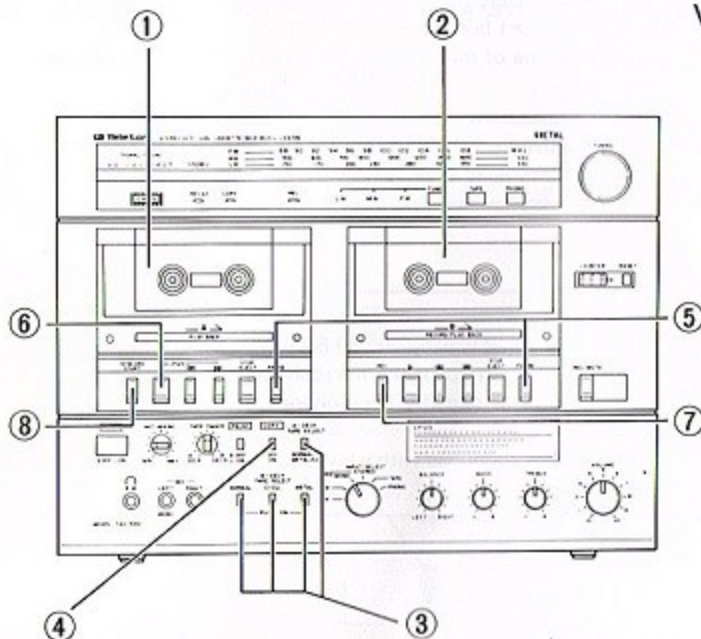


Press the PAUSE button with the REC MUTING button in the depressed position.

2. Release the REC MUTING button.
3. Release the PAUSE button to resume recording. Recording now starts again.

TAPE COPYING FROM DECK A TO DECK B Operate in the numerical order.

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1. Load the playback tape into the deck A cassette holder.
2. Load the recording tape into the deck B cassette holder.
3. Set the TAPE SELECTOR buttons to the positions corresponding to the types of tapes being used in deck A and deck B.
4. Set the COPY switch to ON (▲).
5. Press the deck A and deck B PAUSE buttons.
6. Press the deck A PLAY (▶) button.
7. Press the deck B REC button.
8. Copying starts automatically when the SYNCHRO START button is pressed.

Note

- * To listen to the sound from the speakers during tape copying, set the function switch to TAPE and set the tape fader control to its center position.
- * Sound from a program source (radio, turntable, microphone, etc.) other than deck A can be heard during tape copying.
- * Mic mixing recording is not possible during tape copying.

MIC MIXING Operate in the numerical order.

"Mixing" refers to mixing the sound (voice) from the microphone with the sound from a program source such as the radio or a tape. "Mixing playback" involves the playback of the mixed sound; "mixing recording" involves recording the mixed sound.

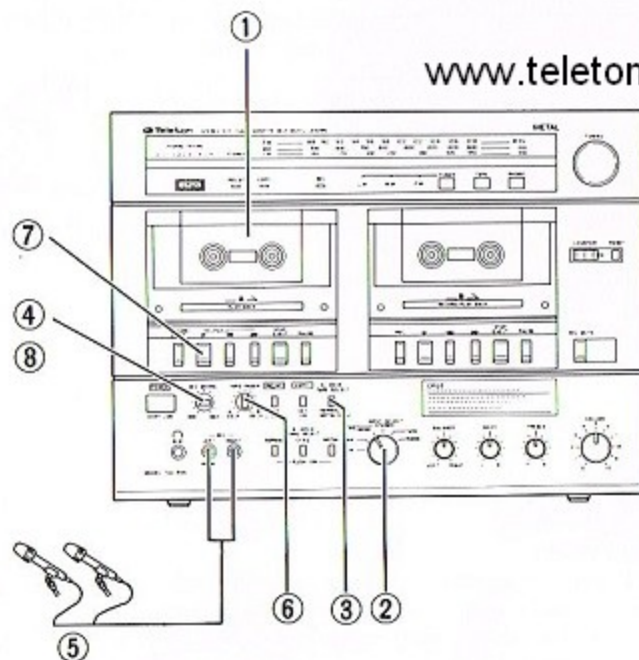
MIXING PLAYBACK

You can have lots of fun singing into a microphone while playing back a pre-recorded music tape and then playing back the two different sounds together.

1. Load the cassette tape in the deck A cassette holder.
2. Set to TAPE for mixing with the tape playback sound.
Set to PHONO for mixing with the record sound.
Set to FM, LW or MW for mixing with the radio sound.
3. Set to the position corresponding to the type of tape being used.
4. Set the MIC MIXING control to its center position.
5. Connect the external microphones.
6. Set the TAPE FADER control to its center position.
7. Press the PLAY (▶) button.
8. Adjust the volume of the microphone using the MIC MIXING control.

To record the mixed sound, perform the mixing on deck A, load the recording tape into deck B and press the REC button.

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Note

- * If howl (a prolonged wailing sound) is heard while the microphones are being used, turn down the microphone volume using the MIC MIXING control or use the microphones at a distance from the speakers.
- * Use external microphones with a low impedance (200 — 2 kohms). When using two microphones, use models with the same performance and specifications.



MAINTENANCE

Cabinet

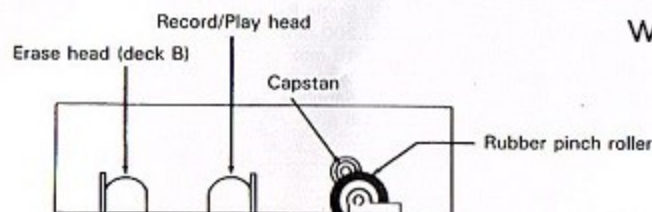
Avoid cleaning the cabinet with spirits, paint thinners or other solvents and avoid spraying it with insecticides.

Use a damp cloth to clean (after the AC power line has been disconnected).



Cleaning the record/play head

Dust and magnetic particles accumulate on the record/play head and erase head. Use "Q-Tips" (small sticks with cotton wool at each end) soaked in alcohol for the cleaning.



Note

Under no circumstances should metal objects be brought near the tape heads. Do not allow cleaning material to fall into the tape assembly and do not use carbon tetrachloride as a cleaning agent.

Stylus

The stylus will pick up dust and fluff even if every effort is made to keep records clean. This must be removed from time to time with a small brush. The sapphire stylus should last for about 20 to 40 hours. A worn stylus makes the treble notes sound harsher. The stylus should be replaced as soon as this is noticeable in order to prevent record wear.



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SPECIFICATIONS

Power Source.....	AC240 V/50 Hz
Antennas.....	FM: dipole antenna (300 ohms) MW/LW: built-in ferrite bar antenna can be connected to both antenna terminals
Dimensions.....	380(D) x 286(H) x 400(W) mm
Weight.....	8.5 kg

The Receiver Audio Section

Circuitry.....	Direct-coupled, single-ended push-pull (quasicomplementary O.T.L. amplifier)
Continuous Power Output.....	15 W x 2 distortion 5% at 1 kHz
Music Power.....	2 x 30 W
Frequency Response.....	70-20,000 Hz ± 3 dB
Tone Control Response.....	Bass: ± 1 dB (100 Hz) Treble: ± 1 dB (10 kHz)

Input/Output

Headphone.....	500 mV at 8 ohms
Microphone.....	Input sensitivity 0.3 mV
Speaker.....	Impedance 8 ohms

FM section

Tuning Range.....	87.5-108 MHz
Usable Sensitivity.....	6 μ V
Single-to-noise Ratio.....	62 dB (Unweighted)
Image Rejection.....	24 dB (at 106 MHz)
IF Rejection.....	70 dB (at 90 MHz)
Audio Fidelity.....	70 Hz-12,500 Hz
THD (mono).....	1%

FM MPX section

Stereo Indicator Sensitivity.....	10 μ V
Stereo Separation.....	40 dB (at 1 kHz)
Stereo Distorsion.....	2%

MW section

Tuning Range.....	530 kHz-1,605 kHz
Sensitivity (20 dB S/N).....	300 μ V/m (at 1,000 kHz)
Signal-to-Noise Ratio.....	40 dB
Image Rejection.....	40 dB
IF Rejection.....	31 dB
THD.....	3%

LW section

Tuning Range.....	150 kHz-350 kHz
Sensitivity (20 dB S/N).....	500 μ V/m
Image Rejection.....	40 dB (at 250 kHz)

The Cassette Deck section

Type.....	Mechanical soft touch operation type. Soft Eject A Deck: play only CPQS system B DECK: REC/play system
Motor.....	DC Electric Governor
Heads.....	Metal tape compatible stereo type
Recording System.....	AC Bias
Erasing System.....	AC Bias
Tape speed Accuracy.....	4.75 cm/sec ($\pm 1\%$)
Wow and Flutter.....	0.06% (WRMS)
Fast F/REW Time.....	100 sec (C-60)
Distortion.....	2%
Signal-to-Noise Ratio.....	45 dB
Separation.....	25 dB
Erase Efficiency.....	50 dB
Frequency Response.....	100 Hz-12.5 kHz (Metal) 100 Hz-10 kHz (Normal)

The Turntable section

Type & Drive.....	Belt Drive
Motor.....	D.C. Electric Governor
Turntable Speed.....	33-1/3 rpm, 45 rpm
Turntable.....	30 cm (Dia.)
Wow and Flutter.....	0.12% (WRMS)
Tonearm	
Type.....	Static Balance
Effective Arm Length.....	200 mm
Overhang.....	18 mm
Cartridge.....	Ceramic
Stylus.....	Sapphire
Needle Pressure.....	6 g.

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Specifications and design are subject to change without notice.



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