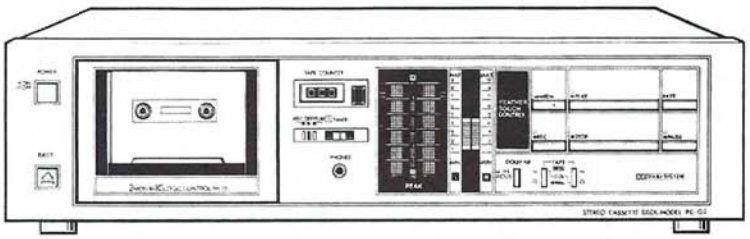
OWNER'S MANUAL

PC-G2

STEREO CASSETTE DECK



The space below is provided to record the Serial Number of this unit. The Serial Number can be found on the back of the product.

Model No. _____

Serial No. _____

Retain this information for future reference.

TA112

TOSHIBA

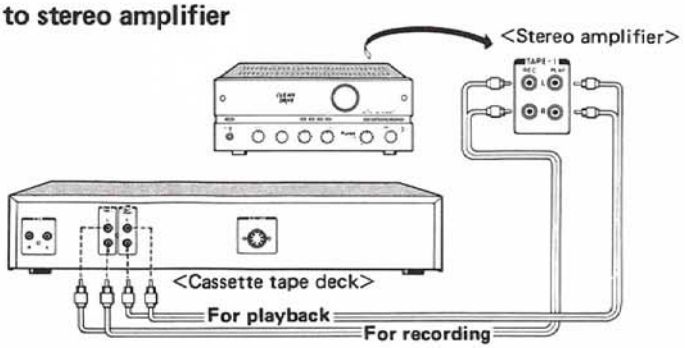
WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Features

- IC logic feather-touch switches for soft fingertip operations.
- Remote control jacks for remote control operation from the comfort of a lounge chair (when optional remote control unit connected).
- Dolby NR for elimination of irritating "tape hiss".
- 3-position tape selector including metal tape position.
- Capacity for unattended recording and morning alarm playback.
- Soft eject mechanism for smooth ejection of tapes.
- Extra large LED digital peak meter.
- Sliding type recording volume control for simple settings.
- Main tape mode control buttons (PLAY, REC and PAUSE) designed to light up when pressed, thereby simplifying operating procedures.
- Performance further improved by dual-motor system for independent capstan and reel drive.

Connections

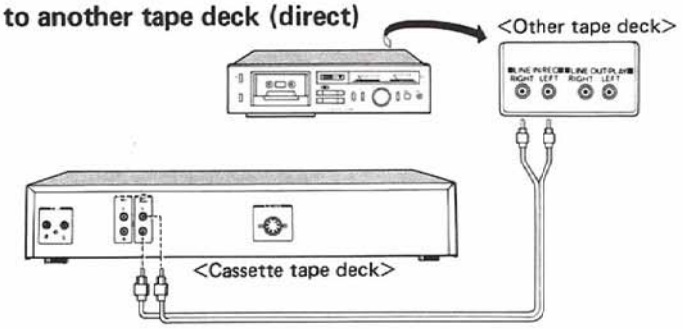
■ Connecting to stereo amplifier



- Connect the connecting cables (stereo connecting cables) to the rear panel terminals and amplifier terminals as shown in the following diagram. Note that the red plugs are used for the right channel in order to avoid confusion and incorrect connections.

Note:
- Check that the amplifier power switch is off before making any connections.
- Insert all plugs firmly and securely. Loose connections can result in noise and other failures.

■ Connecting to another tape deck (direct)



- When using another tape deck for dubbing (copying) and editing purposes, connect directly to the rear panel terminals of the other deck as shown in the following diagram. Note, however, that with stereo amplifiers equipped with dubbing facilities, connect via the amplifier according to the amplifier Owner's Manual.

Warning

■ Do not place the cassette deck:
- in places where there is oily smoke or where humidity is high,
- near a stove where the temperature is above 35°C,
- near an amplifier or other electronic appliances where hum is emitted,
- on an unstable support such as corrugated cardboard,
- in a dusty place,
- in a place exposed to direct sunlight.

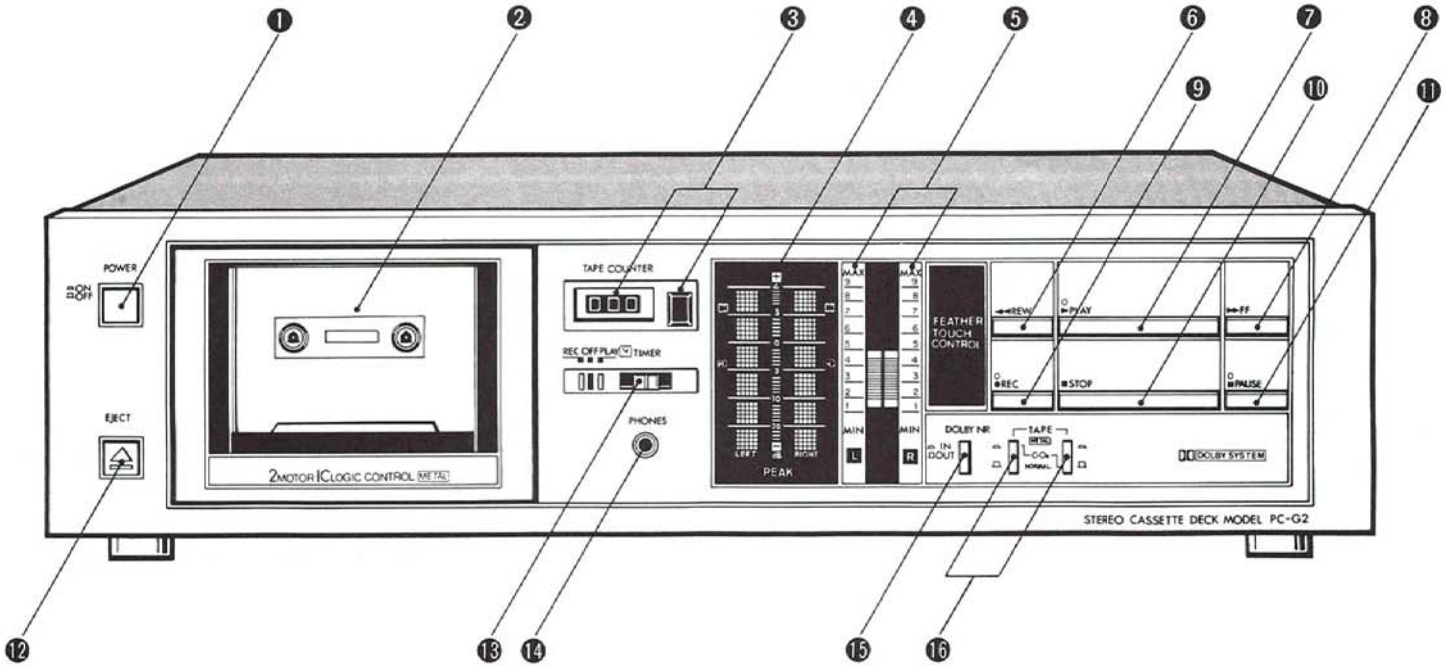
■ Insert the power plug fully to prevent children from touching an exposed portion. When removing the power plug, pull the plug not the cord.

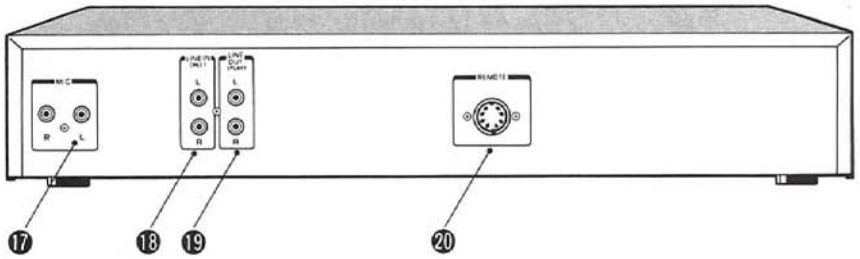
■ Make sure that small objects such as hairpins, needles, etc. are not dropped into the cassette deck; be especially careful with children in this respect.

Do not use the cassette deck if it gets wet for any reason, since it may give you an electric shock. If the deck gets wet, consult the shop where you purchased it.

If you notice any abnormality or fault, immediately switch off the deck at the POWER switch and pull out the power plug. Then consult the shop where you purchased the cassette deck.

Panel Facilities and Functions





❶ POWER Switch

❷ Cassette Compartment Door

❸ TAPE COUNTER and Reset Button

❹ Peak Level Meters

❺ Record Level Adjustment Control

Adjust the recording level for line and mic inputs with this control (<R> for right channel, <L> for left channel).

❻ [◀◀REW] Rewind Button

❼ [▶PLAY] Play Button

❽ [▶▶FF] Fast Forward Button

❾ [●REC] Record Button

Recording mode is started by pressing this button. Note, however, that the deck cannot be put into recording mode if there is no tape loaded in the cassette compartment, or if the cassette tape erasure prevention tabs have been broken off.

❿ [■STOP] Stop Button

⓫ [IIPAUSE] Pause Button

⓬ [≜EJECT] Eject Button

⓭ [TIMER] Timer Standby Switch

By using an optional audio timer unit, unattended recording and morning alarm playback are possible.

⓮ [PHONES] Headphones Jack

Plug in a pair of headphones for quiet private listening.

⓯ DOLBY* NR Switch

Push this switch for Dolby NR recording and for playback of Dolby encoded tapes. Tape hiss in the mid and high frequency regions is suppressed.

* Noise reduction system manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

⓰ TAPE Selector Switch

Switch to the position corresponding to the type of tape being used.

	[TAPE] Switch	
	Left	Right
Metal Tape	⊓	⊓
Chrome Position Tape	⊓	⊓
Normal Tape	⊓	⊓

⓱ Microphone Jacks

For live microphone recording, plug in the microphones to these rear panel jacks (L—left channel, R—right channel).

⓲ LINE IN Recording Terminals

Connect to the REC OUT terminals on the rear panel of your stereo amplifier.

⓳ LINE OUT Playback Terminals

Connect to the PLAY IN terminals on the rear panel of your stereo amplifier.

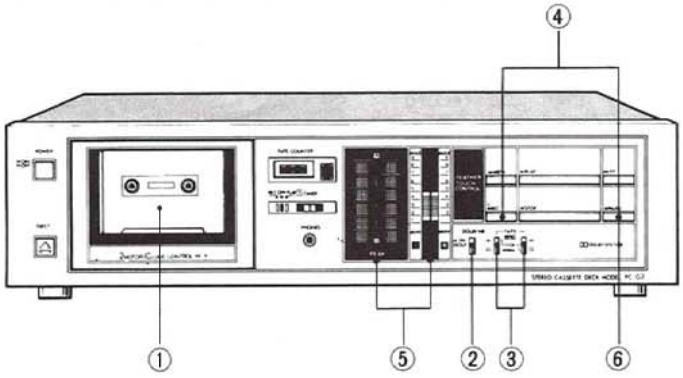
⓴ REMOTE CONTROL Connector

The RM-20S remote control unit may be connected here for remote control purposes.

Recording

■ Recording from Phonograph Records or Tuner

Note: Make sure that the TIMER standby switch is in the OFF position.



① Place a cassette tape in the cassette compartment.
② Select the DOLBY NR switch.
③ Set the TAPE selector switch to the position corresponding to the type of tape.
④ After first pressing the pause button [II PAUSE], press the record button [● REC] and play button [▶PLAY] together.
⑤ Use the peak level meters and the record level adjustment control to adjust the input level to the best recording level.
⑥ Press the [II PAUSE] button a second time to commence recording.

■ Stereo Microphone Recording (Live Recording)

Plug a pair of microphones into the microphone jacks in the rear panel, and proceed according to the recording method described above.

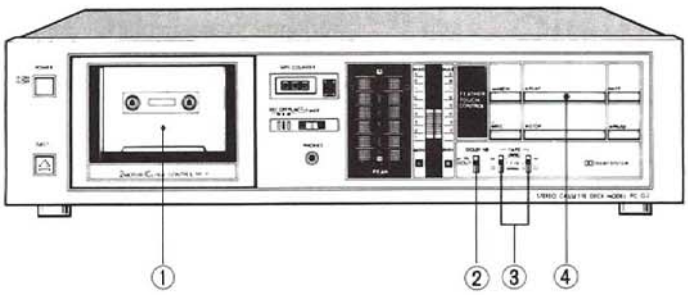
■ Recording Level Adjustment

Generally, the type of tape used and the recording level setting will effect the recording frequency response. For example, the frequence response of metal tapes (particularly in middle and high frequency regions) is considerably better than normal tapes at the same level setting.
Furthermore, the recording/playback frequency response is also improved by setting the recording level at somewhat lower levels for the same tape.

When the tape selector is switched to the chrome position, optimum recording level will be indicated by the top yellow indicator flashing on now and again during the recording. When switched to the normal or metal tape positions, the optimum levels will be a little lower and a little higher respectively. It is recommended, however, that some test recording be done first to find the most suitable recording levels.

Playback

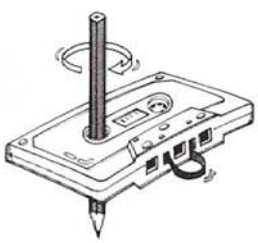
■ Playback



① Place the desired cassette tape in the cassette compartment.
② Select the DOLBY NR switch.
③ Set the TAPE selector switch to the position which corresponds to the type of tape.
④ Press the play button [▶PLAY].

Note: Check that the TIMER standby switch is in the OFF position.

Cassette Tape



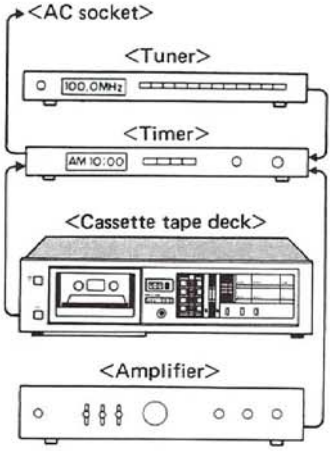
Cassette Loading

1. Before loading a cassette, always take up any tape slack with your fingernail or a pencil to prevent the tape from entangling around the capstan.
2. Press the EJECT button to open the cassette compartment.
3. Insert the cassette with the side you wish to record or play facing you, and the tape facing you, and the tape facing down.

Erasure Prevention Tabs

This deck has an erasure safety device. To prevent accidental erasure of a recorded tape, remove the tab as illustrated. To enable recording of a tape after removal of these tabs, cover the holes with adhesive tape.

Unattended Recording and Morning Alarm Playback (Timer Operations)



Note: The power switches for the amplifier, tuner and tape deck must all be left in the ON position.

■ Unattended Recording

① Setting the recording level
After first tuning to the desired radio broadcast (tuner operation), press the pause button [❚❚PAUSE] and then the record [●REC]. Then adjust the recording level with the record level adjustment control.

② Set the recording start time in the audio timer unit (resulting in the audio system power being switched off).

③ Set the tape deck TIMER standby switch to the REC position.

This completes the setting procedure. The audio system will be turned on and the recording commence automatically at the time preset in the audio timer.

Note:
When the end of the tape is reached during this recording mode, the tape will be stopped automatically. The amplifier, tuner and tape deck power supply, however, will remain on. It is recommended, therefore, that a 2-step audio timer capable of switching the power off again be used.
After completing the recording in this way, be sure to return the TIMER standby switch to the OFF position. Otherwise, there is danger of erasing wanted material when the tape deck is next turned on. It is a good idea to snap off the erasure prevention tabs along the back edge of the cassette after the recording has been completed.

■ Morning Alarm Playback

① Insert the tape you wish to use as the morning alarm. Put the deck into playback mode and adjust the amplifier volume control to a suitable level.

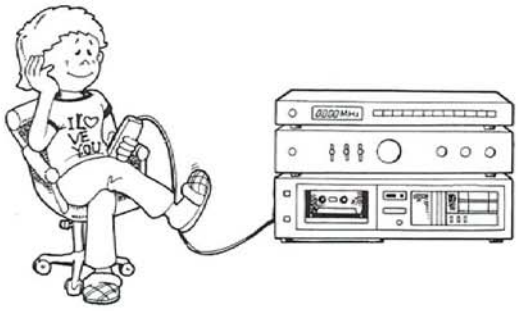
② Set the alarm time in the audio timer unit (resulting in the power supply being switched off).

③ Set the tape deck TIMER standby switch to the PLAY position.

This completes the morning alarm playback setting procedure. Playback will commence automatically at the time preset in the audio timer unit.

Note:
If the morning alarm playback is no longer required, be sure to switch the power off, and return the TIMER standby switch to the OFF position.

Remote Control Operation



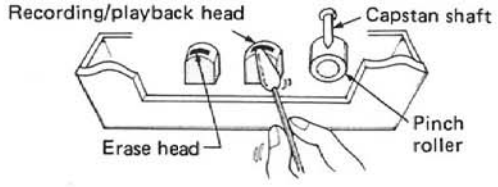
When the optional remote control unit RM-20S (cable connection) is connected to the tape deck, the tape mode keys can be operated from the comfort of your lounge chair. This convenience is particularly useful when recording short pieces with frequent stopping of the tape.

Cleaning Care

■ Cleaning the heads

One of the most critical parts in a cassette tape deck is the recording/playback head. Since the head gap is very narrow, even dust particles of only several microns in diameter caught in the gap can reduce sensitivity, impair of sound quality, and cause loss of left/right stereo balance. In addition, dirt on the pinch roller, capstan shaft, and other parts which control tape speed, can result in speed fluctuations, and may even cause the tape to wind around the rollers. Hence, it is essential that the heads, pinch roller and capstan be kept completely clean at all times. Clean regularly with the head cleaner supplied (about every 10 hours of use).

For cleaning, the cassette compartment door can be removed by first opening and then lifting upwards.



Note:
The recording/playback head and erase head are the most critical parts of the tape deck and must not be subjected to shock or mishandled.
Do not contact the heads with a screwdriver, etc., and keep all magnetic items away from the heads.

Quick Fault Finding

Your Stereo Cassette Deck is a robust reliable product. If it does not function correctly it is probably for a very simple reason. Follow this chart and remedy the trouble yourself in a few moments.

- **No sound →**
  - Is the power cord plugged in?
  - Are connections correct?
  - Is the amplifier selector switch in the proper position?
- **Tape fails to move →**
  - Is the pause button released?
  - Is the tape too tight?
- **Not possible to put into recording mode →**
  - Is a cassette tape loaded?
  - Have the erasure-prevention tabs been removed from the cassette tape?
- **No sound is heard when a recorded tape is played back. →**
  - Was the recording level too low?
- **Sound fades or is unsteady →**
  - Are the head, pinch roller, and capstan clean?
  - Is the tape old or stretched?
- **Poor sound quality →**
  - Are the tape selector switches set correctly for the tape in use?
  - Is the DOLBY NR switch set correctly?
  - Is the recording level correct?
  - Is the head magnetized?
  - Are the connecting cords plugged in firmly?
- **Tape transport commences as soon as POWER switch is turned on →**
  - Has the TIMER standby switch been left in the REC or PLAY position?

Specifications

Heads:	Record/playback AP head Erase AF (2-gap ferrite) head
Drive System:	2-motor IC logic control
Motors:	DC servo motor for capstan drive DC motor for reel drive
Tape Speed:	4.8 cm/sec.
Wow & Flutter:	0.045% WRMS, ±0.17% DIN
Fast Forward and Rewind Time:	Approx. 70 sec. (C-60 tape)
Frequency Response:	20–18,000 Hz with metal tape and –20 dB input 20–16,000 Hz with chrome position tape and –20 dB input 20–15,000 Hz with normal tape and –20 dB input
SN Ratio:	58 dB (peak level, WTD, chrome position tape)
Total Distortion:	0.8% (400 Hz, 0 dB chrome position tape)
Bias Frequency:	85 kHz
Input Terminals:	MIC: 0.25 mV (600 ohm–10k ohm) LINE: 70 mV (50k ohm)
Output Terminals:	LINE: 0.4 V (50k ohm) Headphones: 0.1 mW (8 ohm)
Semiconductors:	7 ICs, 24 transistors, 8 FETs, 31 diodes, 15 LEDs
Power Supply:	AC 220 V~, 50 Hz, 16 W
Major Dimensions:	420 (W) x 110 (H) x 270 (D) mm (including front panel knobs etc. and rubber supports)
Weight:	3.9 kg
Accessories:	Connecting cables (pin–pin) x 2 Head cleaner

** Design and specifications are subject to change without notice.*

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