

 **SANYO**

**MODEL GXT 4503K**  
*SOLID STATE STEREO MUSIC SYSTEM*

A superb STEREO MUSIC SYSTEM for your home, developed and engineered by SANYO. The GXT 4503K will be a source of lively entertainment and great listening pleasure for many, many years.

Before you set up and operate your stereo music system, read this instruction booklet carefully.

Adequate knowledge will prevent errors in operation and assure faultless performance for your maximum listening enjoyment.

## WHERE TO PLACE YOUR MUSIC SYSTEM

1. Select a well-ventilated place which is sheltered from direct sunlight.
2. Avoid a humid or dusty place.
3. Do not install your music system near electric appliances that cause interference-motors, strong magnets, etc. Do not place it near a heat source.
4. In concrete buildings, radio reception can be improved by installing your music system near a window.
5. It is advisable to set the speakers far from the center unit to prevent a feedback called "howling".

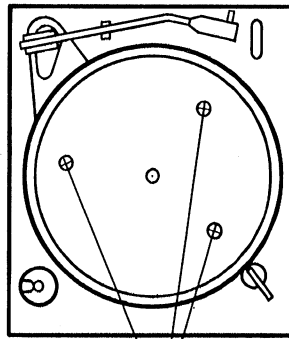
## PREPARATIONS

1. Unpack the GXT 4503K. Connect the speakers to the main unit before switching on power.
2. Turn the three screws fixing the turntable counterclockwise fully and remove them. (See Fig. 1)
3. Take the turntable off the player board.
4. Set the speed selector knob to OFF.

Turning the turntable over, attach it to the turntable shaft bearing.

5. Place the rubber mat on the turntable.
6. Untie the string fastening the tonearm, and take the cap off the cartridge.
7. This set is equipped for power sources of 110, 200, 220 and 240 Volts. Before operating the unit for the first time in a new area, it is absolutely necessary to make sure the setting of the voltage selector (located on the rear of the cabinet) corresponds as near as possible to your local power supply voltage. To adjust the voltage, pull out the plug and rest it into the position (of the socket) which corresponds to your local power supply voltage.

8. Plug the power cord into an AC outlet.



Remove these screws

Fig. 1

# CONTROLS (Receiver Section)

1. Power ON/OFF button
  2. Phones jack
- Connection for stereo headphone (8 ohm).

3. Volume control knob
  4. Balance control knob
- To emphasize the right side speaker volume, turn the knob clockwise. To emphasize the left side speaker volume, turn it counter-clockwise.

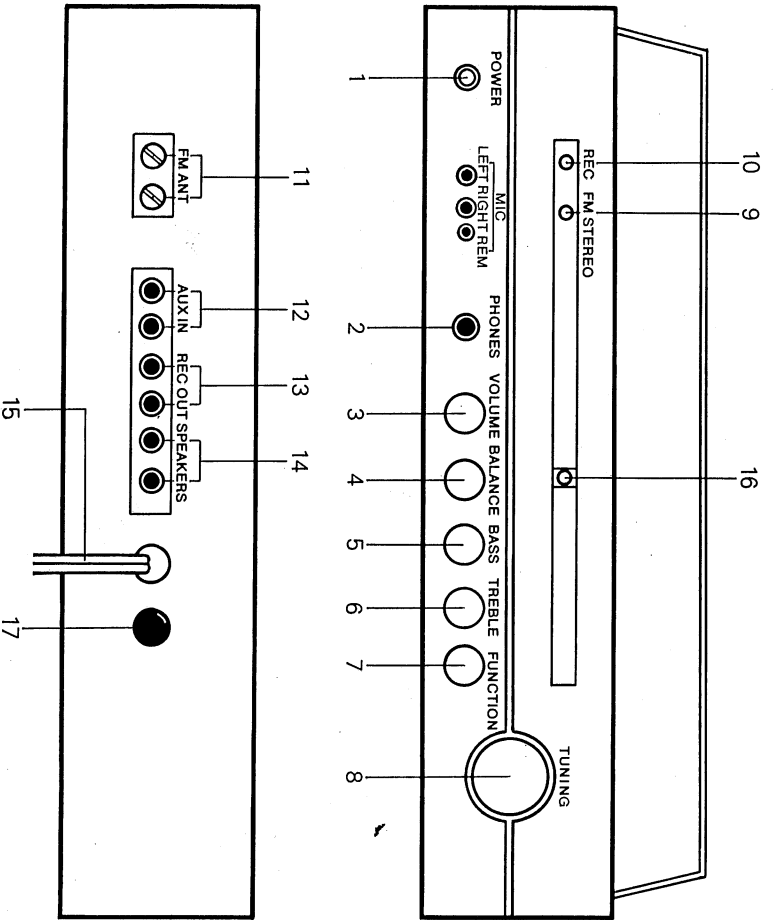


Fig. 2

# INSTALLATION OF AN FM ANTENNA

5. Bass control knob  
Turning this knob clockwise results in stronger reproduction of low frequencies.
6. Treble control knob  
Turning this knob clockwise results in stronger reproduction of high frequencies.
7. Function Selector knob  
AM .....For reception of AM broadcasts.  
FM AUTO .....For reception of FM/FM stereo broadcasts.  
PHONO .....For playing records on the built-in player.  
TAPE .....For tape playback on the built-in cassette recorder or tape recording through microphones.  
AUX .....For playback from external tape recorder.
8. Tuning knob  
For selecting the desired radio station.
9. FM Stereo Indicator light  
It will glow when you tune to a station that is broadcasting in FM stereo. Occasionally, when tuning across the dial, a momentary burst of background noise may cause the light to flicker.
10. Record Indicator light  
It will glow when recording is made on the built-in cassette recorder.
11. FM Antenna Terminals  
An indoor or outdoor antenna must be connected to these terminals.
12. AUX IN jacks  
For connecting an 8-track, or reel-to-reel tape recorder to the unit for playback.
13. REC OUT jacks  
For tape recording with an external recorder, connect the tape recorder LINE IN jacks to these jacks.
14. Speaker jacks  
For speaker connection (8 ohm).
15. AC power cord
16. Dial Pointer light
17. Voltage selector

## Short distance

In an area near the transmitter, only a simple indoor antenna is necessary. It is best to tack the feeder antenna high on the wall, but since FM reception is affected by the direction and position of the antenna, experiment for the best location.

Furthermore, although this antenna is practical in the vicinity of the broadcasting station, it may be necessary to use an external antenna, if the set is in an area with many buildings, or where there is a great deal of interference. (Fig. 3)

## Long distance

In a location far from the station or when surrounded by many buildings, be sure to install an outdoor antenna. Use a greater number of antenna elements the weaker signal or the more interference there is. The antenna must be installed facing in the best direction and at optimum height because of its high directionality which will affect reception sensitivity. (Fig. 3)

# RADIO RECEPTION

1. Depress the POWER ON/OFF button, and the power will be switched on.
2. Set the function selector to "AM" or "FM AUTO".
3. Tune to the desired radio station by turning the tuning knob.
4. For FM reception, when receiving a monaural program, the same sound comes from the right and left speaker boxes.  
When the program being received is in stereo, FM signal is separated into signal components for the right and left channels, and stereo sound comes from the speaker boxes. Meanwhile, the FM STEREO indicator light goes on.
5. Select the sound level you like and balance the sound volumes from the right and left channels by turning the VOLUME and BALANCE controls.
6. Get the most pleasing tone quality by turning the BASS and TREBLE controls.

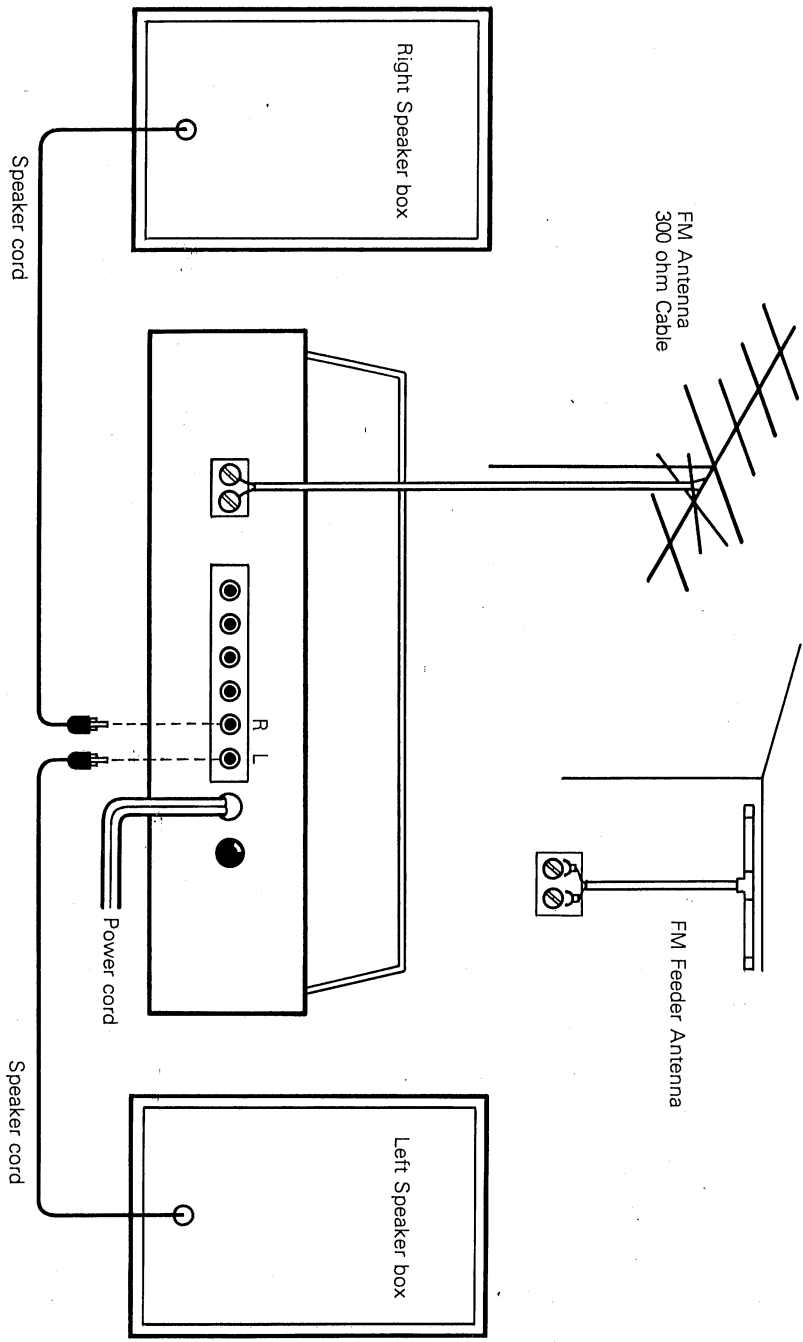


Fig. 3

## CONTROLS (Player Section)

1. Speed selector knob
2. Reject lever
3. Tonearm
4. Tonearm rest
5. Turntable
6. 45 EP adaptor

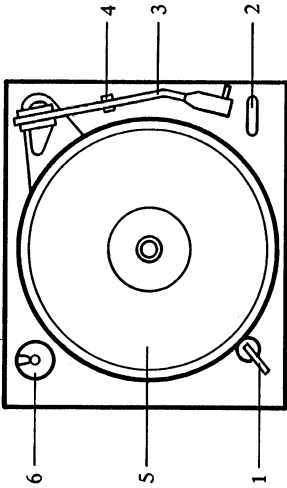


Fig. 4

## HOW TO ATTACH THE TURNTABLE

1. Set the speed selector knob to OFF.
2. Turn the drive gear so that its flat (non-toothed) portion faces the turntable shaft bearing, then push clutch plate inward.
3. Attach the turntable to the turntable shaft bearing.

**NOTE:** The automatic return mechanism may not function the first time the set is used. In this case, return the tonearm with the reject mechanism.

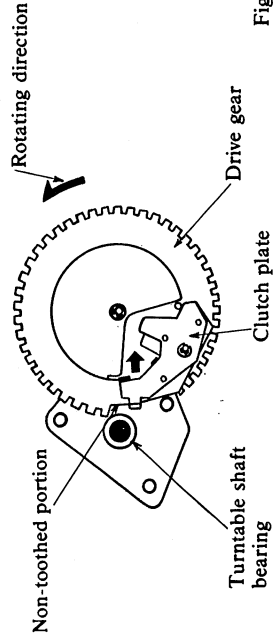


Fig. 5

## PHONOGRAPH OPERATION

1. Set the function selector to PHONO.
2. Place the record on the turntable.
3. Records with a larger hole require the use of the 45 EP adaptor, supplied with the set.
4. Set the speed selector knob according to the record speed: 33-1/3 or 45 rpm.
5. Lift and move the tonearm over the record groove manually. The turntable will begin turning automatically.
6. Lower the tonearm onto the record.
7. Adjust volume level, speaker balance and tone quality with the proper controls.
8. After the record has ended, the tonearm will automatically return to its rest and the turntable will stop turning. If you wish to interrupt the play, turn the reject lever towards you. The tonearm will return to its rest and the turntable will stop.

## STYLUS REPLACEMENT

This set is equipped with a high quality sapphire stylus, but it should be replaced if sound quality reproduced is noted to be worse after use for a long time. It is advisable to replace the stylus with the tonearm swung to the right beyond the rest. Use a screw driver with narrow tip to loosen the screw and remove the stylus. Seat a new stylus correctly on the rubber armature.

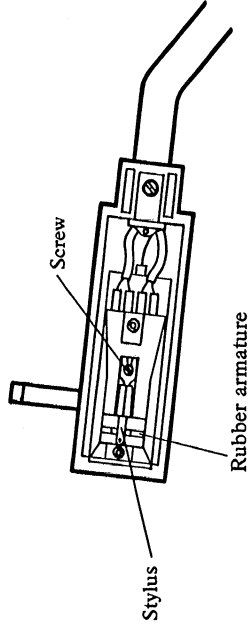


Fig. 6

## CONTROLS (Cassette Recorder Section)

1. Record key
2. Rewind key
3. Fast Forward key
4. Play key
5. Stop key
6. Eject key
7. Cassette storage compartment
8. Cassette compartment lid
9. Left channel microphone jack
10. Right channel microphone jack
11. Remote control jack
12. Recording indicator

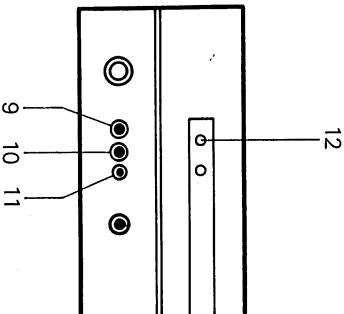
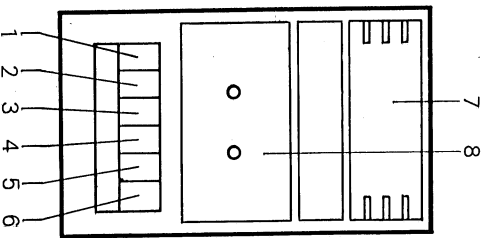


Fig. 7

## CASSETTE RECORDER OPERATION MOUNTING TAPE CASSETTE

Press the EJECT key, and the cassette compartment lid will spring open. Slip a cassette in, holding it with the full reel to the left and the tape slot to the fore (the keyboard side). Close the lid (n.b. it will not close unless the cassette is mounted properly) and operate the tape recorder unit. Press the EJECT key when taking out the cassette.

**NOTE:** When slipping in or taking out the cassette, make sure that the STOP key is depressed. The tape ends are attached permanently to the reels. The tape recorder will be switched off automatically at the end of tape.

## PROTECTION AGAINST ACCIDENTAL SOUND ERASURE

A previous sound recording is erased automatically when new sound is recorded on the same tape tracks. To prevent valuable recordings from being erased, do as instructed below.

Each cassette has two lugs on the back, one near each end. Break one or both of them to protect sound recordings on one or both sides of the tape. The lug above the SIDE mark is for the protection of recordings on that side. The opening made after breaking the lug locks the RECORD key. (Fig. 8)

### 4-TRACK SYSTEM

When a cassette is fitted into the cassette compartment with "SIDE 1" up, tracks 1 and 2 are used for sound recording and playback. When "SIDE 2" is up, tracks 3 and 4 are in the recording and playback position. (Fig. 9)

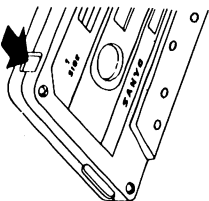


Fig. 8

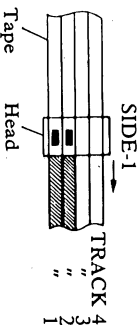


Fig. 9

## RECORDING INSTRUCTIONS

### RECORDING THROUGH MICROPHONES

1. Set the **FUNCTION** knob to **TAPE**.

2. (a) For recording stereo sound

Connect the right channel microphone by plugging its cord (with a two-pin plug) to the **RIGHT MIC** and **REM** jacks.

Connect the microphone for the left channel to **LEFT MIC**:

- (b) For recording mono sound.

Connect the right channel microphone to the **RIGHT MIC** and **REM** jacks.

3. Depress the **RECORD** and **PLAY** keys together.

Both the **RECORD** and **PLAY** keys remain locked.

Sound being recorded is kept at the optimum level by the built-in automatic level control (ALC).

4. Press the **STOP** key, and recording will stop.

5. Auto stop.

At the end of tape, the auto stop works and unlocks the **RECORD** and **PLAY** keys automatically.

### REMOTE CONTROL

Tape recorder operation can be remote-controlled with the **ON/OFF** switch on the microphone for the right channel. This proves very convenient when recording has to be interrupted frequently. When power is switched off, the tape movement stops but the tape recorder remains in the record mode.

### RECORDING STEREO MUSIC FROM EXTERNAL SOUND SOURCE (8-track or reel-to-reel tape deck)

1. Make a connection between **AUX IN** jacks of the music system and the output of an external sound source.
2. Select **AUX** with the **FUNCTION** knob.
3. Set the external signal source in play mode.

The instructions for "RECORDING THROUGH MICROPHONES" apply to the rest of operation.

### RECORDING FROM SYSTEM RADIO OR PHONOGRAPH

1. Select "AM", "FM AUTO", or "PHONO" with the **FUNCTION** knob.
2. Tune to a radio station or play a record.
3. The instructions for "RECORDING THROUGH MICROPHONES" apply to the rest of operation.

## TAPE DUBBING

Using a cassette or tape deck, you can duplicate recordings from the tape recorder of this music system. For this purpose, connect a patch cord between the input connector of the deck and **REC OUT** jacks of the system. The volumes and tone quality of dubbed sound are not controllable on the music system side.

## FAST FORWARD AND REWIND

Depress the **F FWD** key, and tape will travel forward rapidly. To rewind the tape, depress the **REWIND** key. Switch off power to the tape recorder by pressing the **STOP** key when the end of tape has been reached.

## PLAYBACK

1. Open the cassette compartment lid and slip in a recorded cassette. Then, set the **FUNCTION** knob to **TAPE**.
2. Depress the **PLAY** key.
3. Adjust the balance of the sound volumes of the right and left channels by means of the **VOLUME** and **BALANCE** controls.
4. Get the desired tone quality by adjusting **BASS** and **TREBLE** controls.
5. Press the **STOP** key, and reproduction of taped music will be halted.
6. At the end of tape, the auto stop works and unlocks the **PLAY** key automatically. Thus, the tape recorder mechanism disengages.

## SOUND REPRODUCTION WITH EXTERNAL DECK

1. Set the **FUNCTION** knob to **AUX**.
2. Hook the deck (**LINE OUT**) to your music system (**AUX IN**).
3. Play tape on the deck, and sound will be delivered through the speakers of the music system.



## PRIVATE LISTENING WITH HEADPHONES

Plug the cord of low-impedance stereo headphones to the PHONES jack. Sound will then be delivered only through the headphones for quiet private listening.

## MAINTENANCE

Keep the heads and rollers of the system tape recorder clean so that you can enjoy fully satisfactory music performance. Unless cleaned regularly, they will collect dust and oxides of tape. Sound distortion particularly at the high-frequency range will occur and the tape speed will become inconsistent. The auto stop may also fail to work.

To clean:

1. Open the cassette compartment lid.
2. Depress the PLAY key, and the heads and rollers will appear.
3. Clean the heads gently with a cotton bud soaked in liquid cleaner. Clean also the pressure and capstan rollers.
4. Wipe the heads carefully with a clean soft cloth.

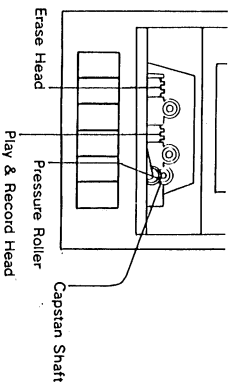


Fig. 10

## SPECIFICATIONS

### RADIO SECTION

Frequency ranges

AM 530—1605 kHz

FM 88—108 MHz

Intermediate frequency

AM 455 kHz

FM 10.7 MHz

FM MPX separation

30 dB (1000 Hz)

Antenna

AM: built-in ferrite rod

FM: external dipole with an impedance of 300 ohm

### AMP SECTION

Output power (T.H.D. 10%)

3 W/CH.

Headphone impedance

8 ohm

Mic impedance

200—600 ohm

Input/Output level

AUX IN

180 mV

REC OUT

200 mV/50 kohm

### PLAYER SECTION

Turntable speeds

33-1/3 or 45 rpm

Turntable platter

10" dia

Turntable drive

Rim drive

Motor

DC governor

Tonearm system

Ceramic stereo cartridge with sapphire stylus

Stylus pressure

7 g

### CASSETTE RECORDER SECTION

Recording system

AC bias, 1/4 track

Erasing system

AC erasing, 1/2 track

Tape speed

1-7/8 ips. (4.75 cm/sec)

Rewind & Fast forward time

120 sec. (C—60)

Wow & flutter

0.2% RMS

### GENERAL

Power source

AC 110, 200, 220, 240V 50/60 Hz

Dimensions

(W)525 × (H)174 × (D)386 mm

Weight (Approx.)

6.5 kg

### SPEAKER SECTION

Speaker

12 cm dia

Input power (rated)

3 W

Matching impedance

8 ohm

Dimensions

(W)230 × (H)365 × (D)155 mm

Weight (Approx.)

3.2 kg

Specifications subject to change, without prior notice.

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