

 **SANYO**

MODEL GXT 4545K
SOLID STATE
STEREO MUSIC SYSTEM

A superb STEREO MUSIC SYSTEM for home, developed and engineered by SANYO. The GXT 4545K 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 speaker systems far from the main unit to prevent acoustic feedback known as "howling".

PREPARATIONS

1. Unpack the GXT 4545K. Connect the speakers to the main unit before switching on power.
2. Remove the two screws that hold down the motor during transportation. (Fig. 1)
3. Take the turntable out of the package and attach it to the unit.
 - a) Attach the turntable to the turntable shaft. Then hold the belt and put it on the motor pulley. Make sure not to twist the belt. (See Fig. 5)
 - b) Place the rubber mat on the turntable.
4. Take the head shell and counter weight out of the protective pad, and attach them to the tonearm.
5. Adjust the position of counter weight so that the stylus pressure matches with the recommended value of cartridge used.
6. Untie the string fastening the tonearm, and take the cap off the cartridge.
7. Plug the power cord to an AC household outlet.
(The power rating of the GXT4545K is 240V.)

Clamp screws for motor

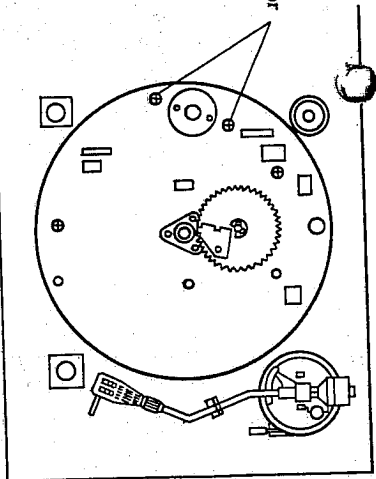


Fig. 1

CONTROLS (Receiver Section)

1. POWER switch
2. FM STEREO indicator
3. SIGNAL meter
To tune in the desired station correctly, turn the tuning knob so that the signal meter needle deflects to the maximum position.
4. TUNING knob
For selecting radio stations.
5. FUNCTION switch
For reception of AM radio broadcasts.
AM.....For reception of FM monaural radio broadcasts.
FM STEREO...For reception of FM stereo radio broadcasts.
PHONO.....For playing records on the player.
TAPE.....For tape playback on the built-in cassette recorder or tape recording through microphones.
AUXFor input from an external sound source through the AUX IN socket.
6. TREBLE control knob
CLOCKWISE —to emphasize treble.
COUNTERCLOCKWISE —to de-emphasize treble.

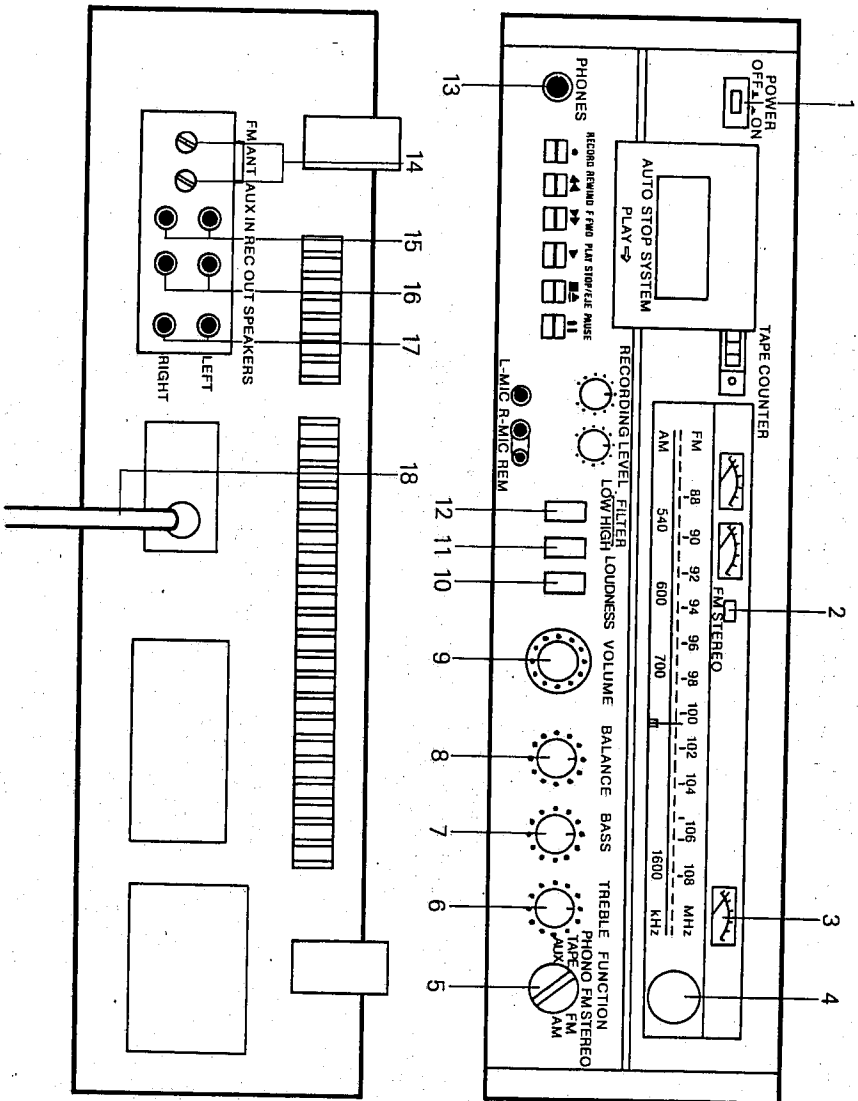


Fig. 2

7. **BASS control knob**
Turn **CLOCKWISE** —to emphasize the bass range.
Turn **COUNTERCLOCKWISE** —to deemphasize the bass range.
8. **BALANCE control knob**
Turn **CLOCKWISE** —Sound output of right channel will increase and that of left channel will decrease.
Turn **COUNTERCLOCKWISE** —Sound output of left channel will increase and that of right channel will decrease.
9. **VOLUME control knob**
Turn **CLOCKWISE** —Sound outputs will increase.
Turn **COUNTERCLOCKWISE** —Sound outputs will decrease.
10. **LOUDNESS switch**
Set the Loudness switch to **ON** or **OFF** position as desired.
Pushing this switch **ON** will restore tonal body and brilliance at low volume levels.
11. **HIGH FILTER switch**
Push this switch down only to reduce record scratch interference, and noisy tape recordings or AM broadcasts. For all other program materials it is recommended to keep this switch in **OFF** position.
12. **LOW FILTER switch**
Push this switch down only when playing old phonograph records which contain audible rumble or when low-frequency noise called "howling" being produced. At all other times leave this switch in **OFF** position.
13. **PHONES (headphone jack)**
14. **FM ANTENNA terminals**
Connect the FM antenna leads to these terminals.
15. **AUX IN jacks**
For making a connection to a separate amplifier, tuner, tape recorder, or stereo phonograph for sound playback.
16. **REC OUT jacks**
For making a connection to a separate tape recorder for sound recording.
17. **SPEAKERS terminals**
Connect speakers to these terminals.
18. **AC power cord**

FM ANTENNA

When radio signal is strong:

In an area not far away from broadcasting stations, an indoor antenna is good enough to pick up FM signals. Stretch a wire antenna near the ceiling. Select its location for the best signal reception. An outdoor antenna is recommended at a place which is surrounded by multi-storied buildings or when there is marked noise interference.

When radio signal is weak:

When listening to a distant FM radio station or when picking up faint signals, erect an FM outdoor antenna with many antenna elements. The antenna should be installed in the direction of the signal source because the FM signal has a strong directional characteristic.

(Fig 3)

LISTENING TO RADIO PROGRAMS

1. Push the **POWER** switch **ON**.
2. Turn the **FUNCTION** switch to **AM**, **FM**, or **FM STEREO** as desired.
3. Turn the **TUNING** knob and select the program you want to listen to.
4. The **FM STEREO** indicator will glow while receiving an FM multiplex (stereo) program.
5. Adjust the **VOLUME** control, balance the sound levels of the left and right speakers, and turn the **BASS** and **TREBLE** controls to obtain the sound effect you like best.

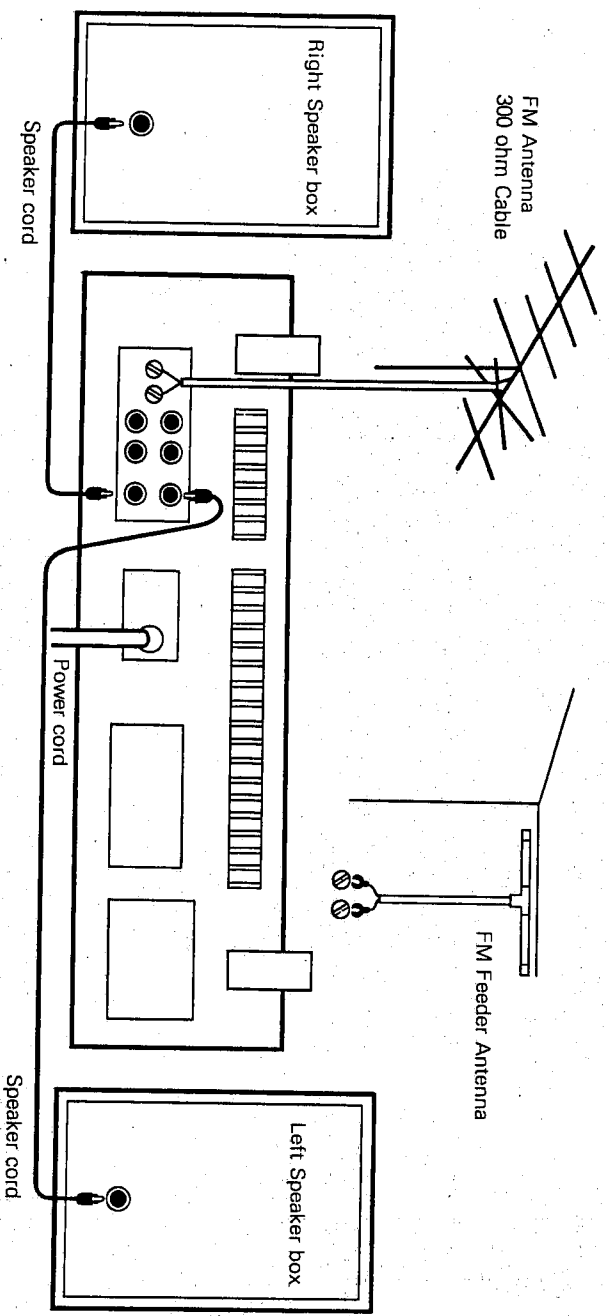


Fig. 3

LISTENING THROUGH STEREO HEADPHONES

Plug the cord of low-impedance stereo headphones into the PHONES jack on the front panel. This will automatically cut off signal outputs to the speakers, permitting quiet private listening through the headphones.

CONTROLS AND PARTS (Player Section)

1. Speed selector button
2. Reject button
3. Cue lever
4. Head shell
5. Arm rest and tonearm clip
6. Tonearm
7. Anti-skating control
8. Counter weight
9. Turntable
10. 45 rpm adaptor

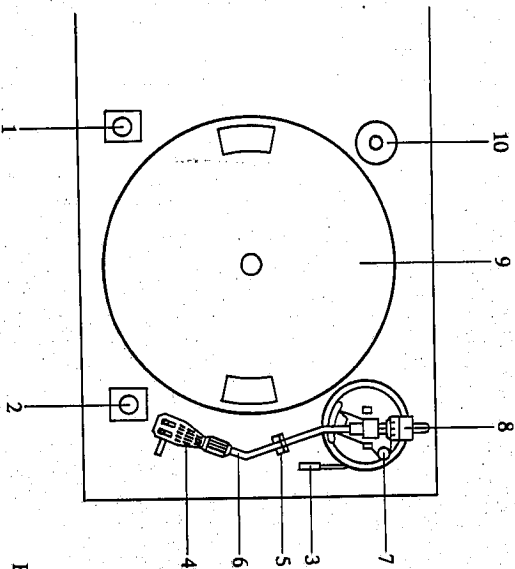


Fig. 4

SETTING TURNTABLE

1. Turn the drive gear until its straight (toothless) section faces the bearing at the lower end of the turntable shaft.
Push the clutch plate inward (i.e. arrow-marked direction).
2. Mount the turntable on the turntable shaft and make it rest on the bearing. Then, hold the belt and put it on the motor pulley. Make sure not to twist the belt.
3. Place the rubber mat on the turntable.

NOTE: The automatic return mechanism may fail to function the first time the turntable unit is used. If this is the problem, push the reject button and return the tonearm.

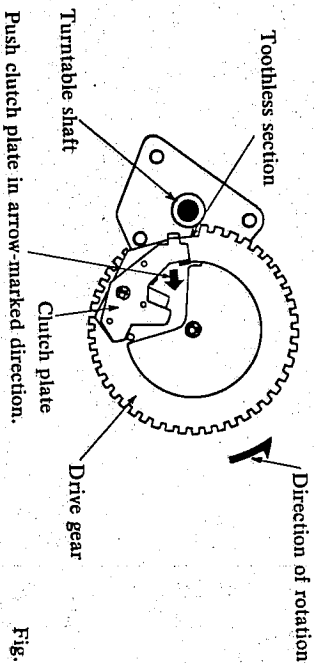


Fig. 5

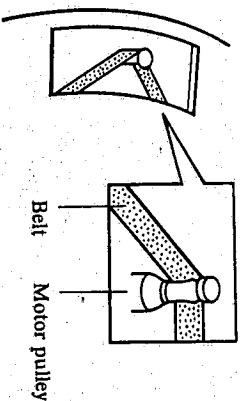


Fig. 6

SETTING HEAD SHELL



Attach the head shell to the tonearm so that the head shell pin fits into the guiding slit of tonearm. Holding the head shell with the other hand, rotate the screw clockwise fully. To take off the head shell, reverse the above procedures. (Fig. 7)

ADJUSTING STYLUS PRESSURE

It is necessary to adjust the stylus pressure for obtaining maximum performance from the player. Adjust the position of counter weight so that the stylus pressure matches with the recommended value of cartridge used. (For the supplied cartridge, the recommended value is 2.5 grams.)

1. O-ADJUSTMENT

Mount the counter weight on the tone arm and rotate it clockwise. Adjust the position of counter weight so that tone arm is parallel to the player board.

2. Rotate and set the stylus pressure indicator ring to "0" position. Rotate the counter weight clockwise until the stylus pressure indicator ring indicates 2.5 (Fig. 8)

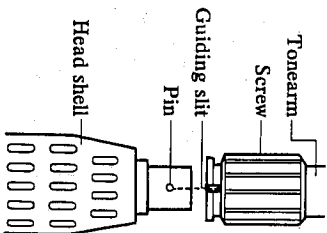


Fig. 7

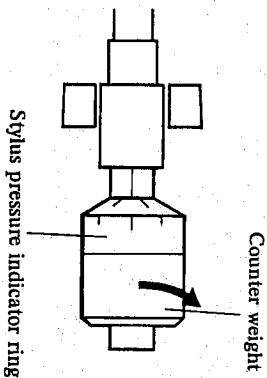


Fig. 8

REPLACING CARTRIDGE

This player is designed to match other cartridges. First take off the stylus. Turning two screws counterclockwise fully, remove them. Disconnect four leads, and cartridge will be free. Reversing the above procedures, attach alternative cartridge and stylus. Then it is necessary to adjust the overhung as shown. (Fig. 9)

ANTI-SKATING ADJUSTMENT

The anti-skating is adjusted to a figure corresponding to the stylus pressure applied. The control is continuously adjustable so that settings between the figures indicated are possible.

NOTE:

The anti-skating settings described are those required under ideal conditions. Slight variation from the optimum may be necessary depending on the condition of the stylus. If, after setting the adjustment, the tone arm tends to skate out, lower the setting, if it skates in, increase the setting.

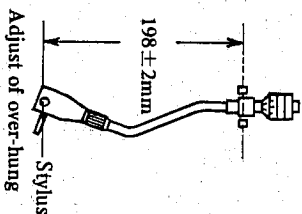


Fig. 9

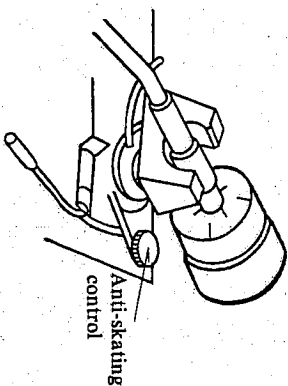


Fig. 10

PLAYING RECORDS

1. Set the FUNCTION switch to PHONO.
2. Use the 45 rpm adaptor when playing a doughnut disc.
3. Set the speed selector knob to the required speed-33-1/3 or 45 rpm.
4. Release the tonearm from its clip.
5. Raise the cue lever and the tonearm will raise from the arm rest and pause there. Move the tonearm over the record groove manually. The turntable will begin turning automatically.
6. Lower the cue lever, and the tonearm will gently lower on to the record and start playing.
7. Adjust the VOLUME control, balance the speaker sound levels and make fine adjustment of the BASS and TREBLE controls.
8. At the end of record music performance, the tonearm will automatically rise from the record and return to the arm rest. Then, the turntable will stop running.
9. To interrupt player operation, push the reject button. The tonearm will return to the arm rest and the turntable will stop revolving.

REPLACING STYLUS

This set is equipped with a high quality diamond stylus, but it should be replaced if sound quality reproduced is noted to be worse after use for a long time. To remove the old stylus, pull out the stylus assembly holding the cartridge with the other hand.

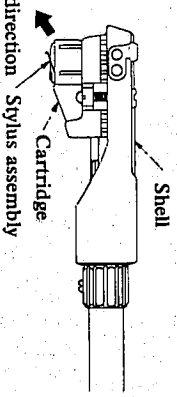


Fig. 11

CONTROLS AND PARTS (Cassette Recorder Section)

1. Record key
2. Rewind key
3. Fast Forward key
4. Play key
5. Stop/Eject key
6. Pause key
7. Cassette compartment lid
8. Tape counter and reset button
9. Level meters
10. Recording level controls
11. Left channel microphone jack
12. Right channel microphone jack
13. Remote control jack

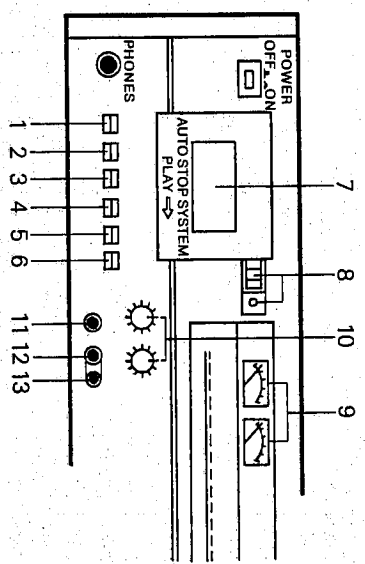


Fig. 12

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. 13)

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. 14)

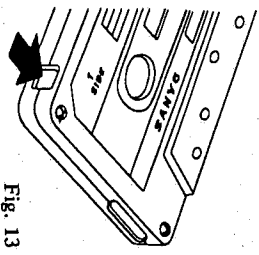


Fig. 13

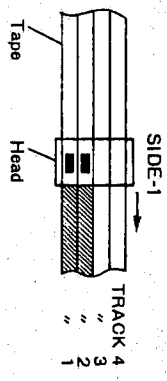


Fig. 14

MOUNTING TAPE CASSETTE

Press the STOP/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 at the lower side. Close the lid (n.b. it will not close unless the cassette is mounted properly) and operate the tape recorder unit.

Press the STOP/EJECT key when taking out the cassette. (Fig. 4)

NOTE:

The tape ends are attached permanently to the reels. The tape recorder will be switched off automatically at the end of tape.

FAST FORWARD & REWIND

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

PAUSE KEY

The PAUSE key is one of the features of the tape recorder incorporated in this music system. Press and lock the key to halt recording for as long as you like. Another push unlocks the key, and recording operation will be resumed. Use this key to eliminate announcements and commercials when recording radio programs.

RECORDING INSTRUCTIONS THROUGH MICROPHONES

Recording from the microphones

1. Turn the function selector to TAPE.
2. (A) Stereo recording
Plug the right channel microphone (two-pronged plug) into the RIGHT MIC and REM jacks. Plug the left channel microphone (one-pronged plug-optional) into LEFT MIC jack.
(B) Monaural recording
Plug the right channel microphone into the RIGHT MIC and REM jacks.
3. Depress the Pause key, then depress the Play and Record keys together. Adjust the recording level by turning the right and left RECORDING LEVEL controls so that the pointer of the level meter will not swing over O-VU even at maximum level. If the deflection exceeds O-VU, the recording will be distorted due to excessive recording signal. (Fig. 15)

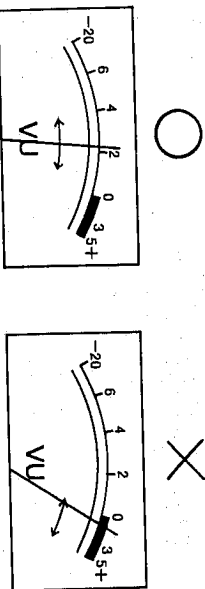


Fig. 15

4. Adjust the level of each channel for stereo recording by respective RECORDING LEVEL control with aid of level meter.
5. Press the Pause key again to release the mechanism. The recording will begin on the tape.
6. To stop recording, press down the Stop/Eject key.
7. At the end of the tape, both keys will be automatically disengaged and the mechanism will stop.

Remote Control

Tape recorder operation can be remote-controlled with the ON/OFF switch on the external 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 recording mode.

- ## Recording from the built-in reel or phonograph while listening, PHONO.
1. Set the function selector to the desired source; AM, FM, FM STEREO, or PHONO.
 2. Tune in the desired radio station or play a record on the turntable.
 3. Other recording procedures are the same as for microphone recording.

To record stereophonically from other signal sources (8-track or reel-to-reel tape deck)

1. Connect the AUX IN jacks to the output jacks of the other signal sources.
2. Turn the function selector to AUX.
3. Set the other signal source in play mode.
4. Other recording procedures are the same as above.

PLAYBACK

1. Insert a stereo or monaural cassette and turn the function selector to TAPE.
2. Press down the Play key, and the tape playback will start.
3. Adjust volume level, speaker balance and tone quality with the proper controls.
4. To end playback, press the Stop/Eject key.
5. This tape deck has an AUTO STOP mechanism. When the end of the tape is reached, the Play key will be automatically disengaged and the mechanism will stop.

PLAYBACK OF EXTERNAL TAPE RECORDER

1. Turn the function selector to AUX.
2. Connect external recorder's line output jacks to the unit's AUX IN jacks.
3. Set the dextral recorder in play mode.
4. Adjust volume level, speaker balance and tone quality on this set.

TAPE RECORDING



SPECIFICATION



You can record from this unit onto an external tape recorder.

1. Connect external tape recorder line input jacks to this unit's REC OUT jacks.
2. Set the function selector to the desired source.
3. Tune in the radio station, play a record, or play back a tape.
4. The setting of the controls on the unit has no effect on the tape recording. Adjust the recording level on the external tape recorder.

MAINTENANCE

To assure continued high performance from your cassette recorder, periodically clean the heads and pressure rollers whenever dust or reddish-brown oxide has accumulated. Failure to clean these parts will result in inferior sound quality, distortion of recordings, deterioration of high frequency reproduction, inconsistent tape speed and failure of auto stop.

1. Press the Stop/Eject key to open the cassette compartment lid.
2. Moisten a cotton applicator with headcleaner and apply to the faces of both heads, rubbing gently until all traces of dirt or oxide are removed. Also clean the surfaces of pressure roller and capstan.
3. Clean, dry and polish the faces of the heads with a piece of cloth.

RADIO SECTION

Frequency ranges

Intermediate frequencies

Antenna

AM 530—1605 kHz

FM 88—108 MHz

AM 455 kHz

FM 10.7 MHz

AM: Built-in ferrite rod antenna

FM: external dipole antenna
(300 ohms)

AMP. SECTION

Output power (T. H. D. 1%)

Power bandwidth

PLAYER SECTION

Turntable speeds

Turntable platter

Turntable drive

Tonearm system

7W/CH.

50—20000 Hz

33-1/3 or 45 rpm

28cm in diameter

Belt drive

MM cartridge with diamond stylus
(replaceable)

2.5 ± 0.5g

0.2% RMS.

Stylus pressure (for supplied)

Wow and flutter

CASSETTE RECORDER SECTION

Recording system

Erasing system

Tape speed

Wow and flutter

SPEAKER SECTION

Speaker

AC bias, 1/4 track

AC erasing, 1/2 track

4.75 cm/sec.

100 sec. (C—60)

0.2% RMS.

Woofer 16cm

Tweeter 6cm

10W

8 ohms

(W)300 × (H) 525 × (D)190 mm

(W)300 × (H) 525 × (D)190 mm

(W)300 × (H) 525 × (D)190 mm

AC 240V, 50 Hz

(W)590 × (H)205 × (D)380 mm