
SANYO

MODEL G 2620NK SOLID STATE PORTABLE
STEREO MUSIC SYSTEM

Your new Stereo Music System is a versatile solid state portable three-in one unit (Stereo cassette recorder, 2 speed stereo phonograph and 3 band radio) designed to allow placing of the separate speaker systems in any position for full depth stereo. The set operates on DC (batteries) or AC (house current).

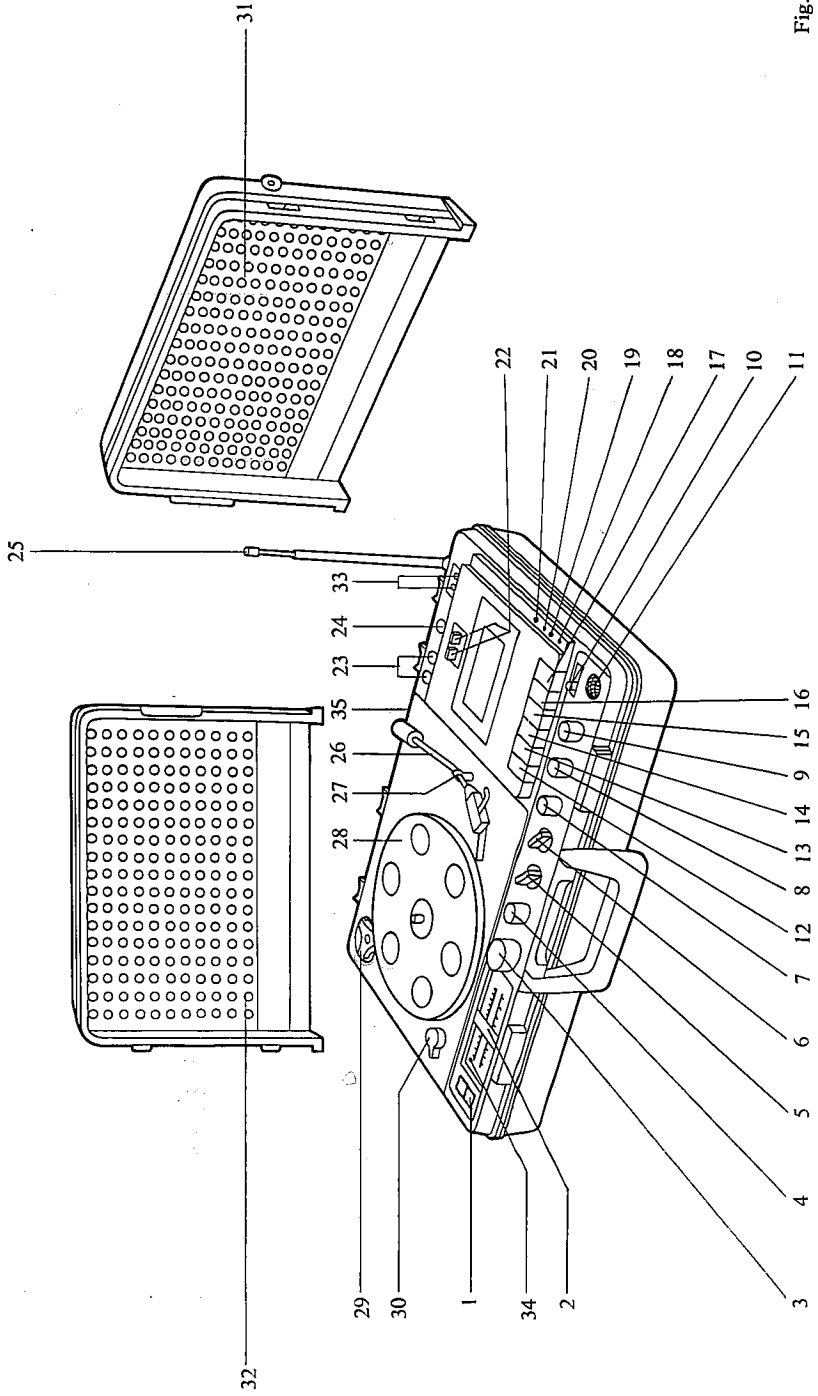


Fig. 1

CONTROLS

1. Power switch
 2. Dial scale
 3. Tuning knob
 4. Fine tuning knob
 5. Band selector knob
 6. Function selector knob
 7. Bass control knob
 8. Treble control knob
 9. Right (outside) and left (inside) volume control knob
- Turning outside clockwise increases the volume of right channel.
Turning inside clockwise increases the volume of left channel.
10. Mic switch
- Be sure to set the mic switch to OFF, when neither the internal nor external microphones are used.
11. Condenser mic
 12. Record key
 13. Rewind key
 14. Fast forward key
 15. Play key
 16. Pause key
 17. Stop/Eject key
 18. Headphone jack
 19. Remote control jack
 20. Right channel microphone jack
 21. Left channel microphone jack
 22. Tape select switches
 23. Speaker terminals
 24. R/P AUX terminal
 25. Telescopic antenna
 26. Pick-up arm
 27. Pick-up arm rest
 28. Turntable
 29. 45 EP adaptor
 30. Speed selector knob
 31. Right speaker
 32. Left speaker
 33. FM antenna terminal
 34. FM STEREO indicator

PREPARATIONS

For DC operation

Remove the battery compartment lid by sliding the knob in the direction of the arrow. Six size "D" (UM-1) flashlight batteries must be inserted and particular care should be paid to the polarity. Correct insertion of the batteries is illustrated inside the battery case. (Fig. 2)

For AC operation

This set is designed for an AC power source of 240 V.
Open the battery compartment lid. Connect one end of the power cord to the AC input in the battery compartment and the other end to an AC wall outlet (socket).

Speaker connections

Disconnect the speaker boxes and plug the lead from the right speaker into the Right speaker jack, and that from the left speaker into the Left speaker jack.

NOTE: Do not operate the set unless the speakers are properly connected, doing so may result in damage to the set.

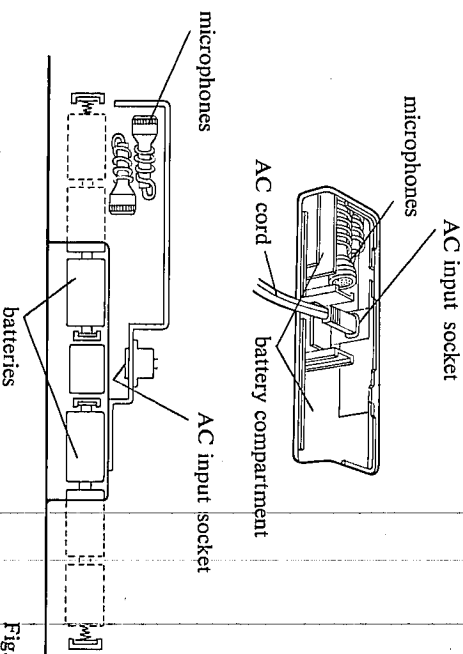


Fig. 2

RADIO OPERATION

1. Set the power switch to ON. The power comes on.
 2. Turn the function selector knob to RADIO.
 3. Turn the band selector knob to the desired band.
FM 88—108 MHz
SW 3.2—12 MHz
MW 530—1605 kHz
 4. Turn the tuning knob to the desired station.
 5. The fine tuning knob facilitates precise tuning, which is necessary for SW reception.
- After finding the desired station with the tuning knob, turn this knob very slowly in either direction, and choose the position which renders optimum sound quality.
6. For FM or SW reception, pull out the telescopic antenna and determine its direction, length and angle of tilt to obtain the best reception.
 7. Adjust the right & left volume control knob for the desired sound volume and balance.
 8. Adjust bass and treble control knobs for the desired tone quality.

LISTENING TO FM BROADCASTS

Set the Band selector knob to FM AUTO.

If the broadcast is monaural, the same signal is played through both left and right speakers. If it is a stereo broadcast, the signal is automatically separated into left and right, and each is played through its respective speaker.

When a stereo broadcast is being received, the FM STEREO indicator goes on.

PHONOGRAPH OPERATION

1. Turn the Function selector to PHONO.
2. Turn the Speed selector knob to the proper speed for the record to be played.
3. Place the record on the turntable. Some 45 rpm records require the 45 EP adaptor supplied with the set.
4. Lift the pick-up arm and move it toward the turntable, the turntable will automatically begin to revolve. Carefully set the pick-up arm on the record.
5. Adjust the Right & Left Volume control knob for the desired sound volume and balance.
6. Adjust Bass and Treble control knobs for desired tone quality.
7. When the record is finished, lift the pick-up arm and return it to the arm rest. This will turn off the motor and the turntable will be automatically stopped.
8. After listening to the record, turn the speed selector knob to OFF.

INSTALLATION OF FM ANTENNA

This unit has a built-in telescopic antenna. No external antenna is needed under normal conditions.

Install an outdoor antenna or indoor antenna when using the set in a location far away from the station area, in a noisy place, or in a concrete building. Connect this antenna to the FM antenna terminal of your set. (Fig. 3)

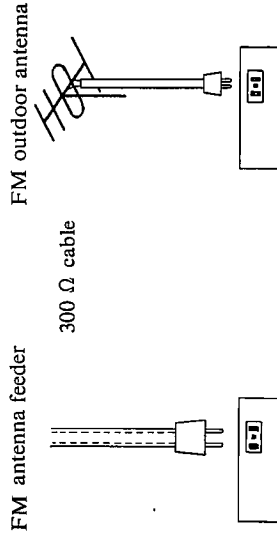
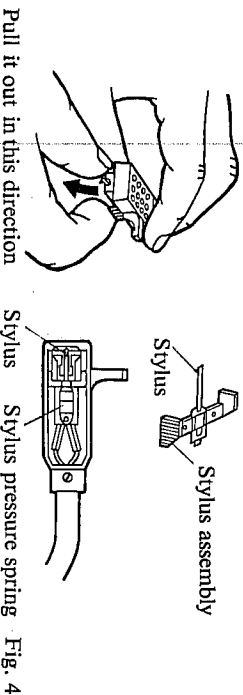


Fig. 3

TO REPLACE THE STYLUS

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. Hold each end of the stylus assembly with your two fingers and pull it out as shown below. Insert a new stylus assembly between the pressure spring and the cartridge body, and seat it securely with the spring. (Fig. 4).



COMPACT CASSETTE

To insert the cassette.

1. Press the Stop/Eject key and open the cassette insertion lid. Insert the cassette with the full reel to the left (visible through the window) and the tape slot toward the control panel. (Fig. 5) The cassette fits into the recorder only in the correct position. Now the cassette insertion lid may be closed and the recorder is ready to operate.

To remove the cassette, press the Stop/Eject key.

NOTE:

Start and end portions of the tape are attached permanently to the reels. When the end of the tape has been reached while recording or playing back, the cassette mechanism will switch OFF automatically.

TRACK SYSTEM

When the cassette is inserted with "SIDE 1" up, recording or playback is done on tracks 1 and 2.

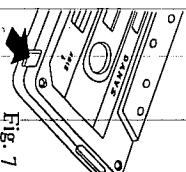
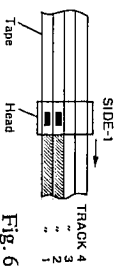
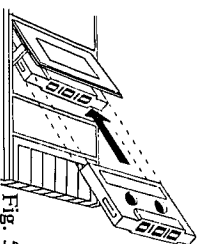
Tracks 4 and 3 can be used by simply turning the cassette over and inserting it with "SIDE 2" up. (Fig. 6)

TO SAFEGUARD AGAINST ACCIDENTAL ERASING

Every time a recording is made, the sound previously recorded on the tape is erased automatically. To safeguard valuable recordings against accidental erasing, the cassette and the unit are equipped with special devices.

On the back of the cassette are two little flaps. To make sure that a recording cannot be erased, break out these flaps with a knife or key. The resulting opening interlocks with the record key of the recorder. The record key cannot be depressed when this tape is inserted.

If only one channel is to be protected, break out only the flap to the left when the tape is in the position for using that track. (Fig. 7)



RECORDING

Recording from the microphone

1. Turn the Function selector knob to CASSETTE.

2. (a) Stereo recording

Insert Right channel microphone (two pronged plug) into Right channel microphone and Remote control jacks, and Left one into Left channel microphone jack.

(b) Monaural recording

When you use only one microphone, insert the Right channel microphone into Right channel microphone and Remote control jacks. When no microphone is plugged in, the condenser mic operates.

3. Set Mic switch to ON.

4. Press down the Record key.

5. While holding the Record key down, also press the Play key.

Both keys will stay down and the recording will begin on the tape. Controls on the unit are not necessary as the unit incorporates automatic level control (ALC).

- To stop recording, press the Stop/Eject key.
- Auto stop

At the end of the tape, record and play keys will be automatically disengaged and the mechanism will stop.

The following table shows all possibilities of recording and mixing.

Ext. mic Input		Recording		
Left	Right	Left track	Mode	Right track
open	open	cond. mic	mono	cond. mic
open	ext. mic	ext. mic	mono	ext. mic
ext. mic	ext. mic	left ext. mic	stereo	right ext. mic

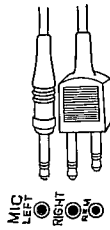


Fig. 8

Remote control

This Cassette Recorder incorporates a remote-control ON/OFF switch. When recording must be interrupted and started again frequently, use the switch on the right channel microphone to start and stop the tape recorder. In this case, the recorder remains set to the recording position, only the tape movement is stopped, thus permitting quick change-over between stop and recording.

Pause key

This music system is equipped with a convenient Pause key which will stop the recorder for as long as you prefer. For preparing your next selection or program, simply push the Pause key.

To start recording, push the Pause key again to release the mechanism. No tape will be used while the Pause key is depressed. This key is especially helpful in recording live broadcasts to eliminate announcements and commercials between selections.

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

- Be sure to set the Mic switch to OFF.
- Connect R/P AUX terminal to the output jack of the other signal source.
- Turn Function selector knob to AUX.
- Other recording procedures are the same as for microphone recording.

Mixed recording

It is possible to record from external or built-in microphone and another sound source simultaneously.

- Turn the function selector knob to RADIO or PHONO which you want to mix on the microphone signal.
- Plug the microphones into the microphone jacks for the desired operation.
- Set the MIC switch to ON.

4. Select the desired radio station or play a phonograph record.

5. Other recording procedures are the same as above.

NOTE: In order to have a good tone quality, the volume should be reduced to minimum.

Recording from the built-in radio or phonograph

- Be sure to set the Mic switch to OFF.
- Turn the Function selector knob to RADIO or PHONOGRAPH.
- Select the desired radio station or play a phonograph record.
- Other recording procedures are the same as above.

Tape recording

You can record from this unit on to an external tape recorder. Connect Tape Recorder input jacks to unit's Recorder R/P AUX terminal. The setting of the controls on the unit has no effect on the tape recordings.

In this case, first set the Mic switch to OFF.

FAST FORWARD AND REWINDING

For fast forward winding of the tape, press the Fast Forward key. Release the key when the end of the tape has been reached. For rewinding of the tape, press down the Rewind key. Press the Stop/Eject key when the end of the tape has been reached.

PLAYBACK

- Insert a stereo or monaural recorded cassette and turn the Function selector knob to CASSETTE.
- Press down the Play key.
- Adjust Right and Left volume control knob for the desired sound volume and balance.
- Adjust Bass and Treble control knobs for the desired tone quality.

5. To end playback, press the Stop/Eject key.

6. This tape deck has an AUTO-STOP mechanism. When the end of the tape is reached, the play key will be automatically released and the mechanism will stop.

Playback of external tape recorder

1. Turn Function selector knob to AUX.
2. Connect external recorder's line output jacks to the unit's R/P AUX terminal.

Tape selector switches

Select each suitable settings of tape selector switches to realize the full audio potential of tapes used according to their specific magnetic tape materials. This music center is designed to conform to two kinds of tape; conventional (or normal) tape and chrome (CrO₂) tape. Functions of bias switch and frequency-response equalizer switch are independent from each other and assures the near adaption of each different type of tape for the best possible performance.

TAPE SELECTOR		
TYPE OF TAPE	BIAS	EQ
NORMAL TAPE	LOW	NORMAL
CrO ₂ TAPE	HIGH	CrO ₂

USING STEREO HEADPHONES

A low impedance stereo headphone can be plugged into the headphone jack on the cassette section. When a headphone set is plugged in, the speakers are automatically disconnected to permit private listening without disturbing others.

MAINTENANCE

To assure continued high performance from your cassette recorder periodically clean the head 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. (Fig. 9)

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

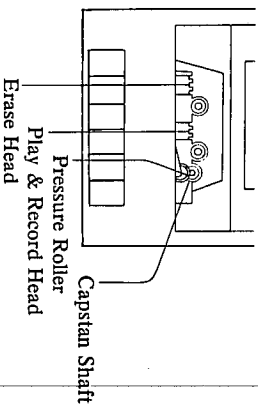


Fig. 9

STORAGE

If the unit is to be stored for a long time, remove the batteries. Leakage of batteries might cause damage to the mechanism. Store the unit in a cool, dry place.

SPECIFICATIONS

RADIO SECTION

Frequency range

MW 530—1605 kHz
SW 3.2—12 MHz
FM 88—108 MHz
AM 455 kHz
FM 10.7 MHz

Intermediate frequency

PLAYER SECTION

Turntable speeds

33 1/3, 45 rpm

Cartridge & stylus

Ceramic stereo cartridge with sapphire stylus
8" dia

Turntable platter

CASSETTE DECK SECTION

Recording system

AC bias

Erasing system

AC erasing

Recording time

12 min. (C-12), 60 min. (C-60), 90 min.
(C-90)

Fast forward or Rewind time

120 sec. (C-60)

Mic impedance

200—600 ohms (at 1 kHz)

Condenser mic impedance

200—850 ohms (at 1 kHz)

SPEAKER SECTION

Speaker

4-3/4" ferrite core speaker × 2
voice coil impedance 4 ohms

GENERAL

Output power

2 W × 2(T.H.D. 10%)

Power source

AC 240 V 50 Hz

DC 9 V (Six "D" size flashlight batteries)

IC's

5

Transistors

13

Diodes

20

LED

1

Dimensions

19-1/8"(W) × 5-1/4"(H) × 13-1/4"(D)
(486 × 133 × 337 mm)

Weight (Approx.)

17.8 lbs. (8 kg)

We reserve the right to change specifications without prior notice.