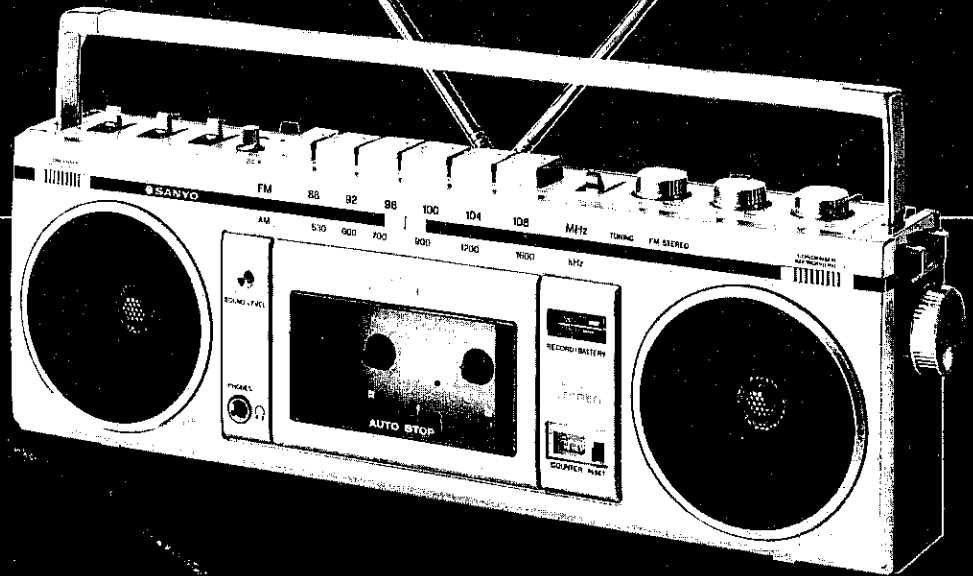


 **SANYO**

Mini AM/FM

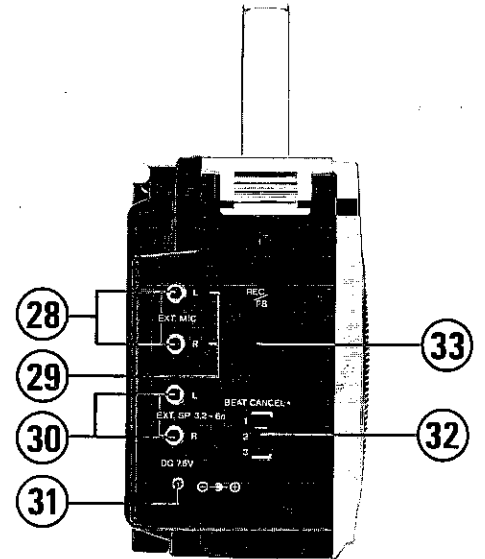
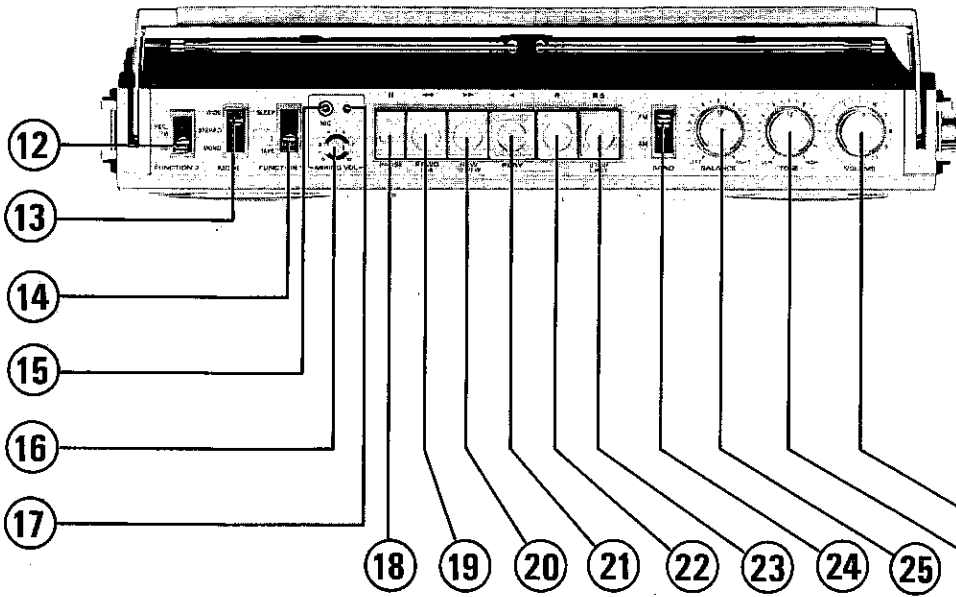
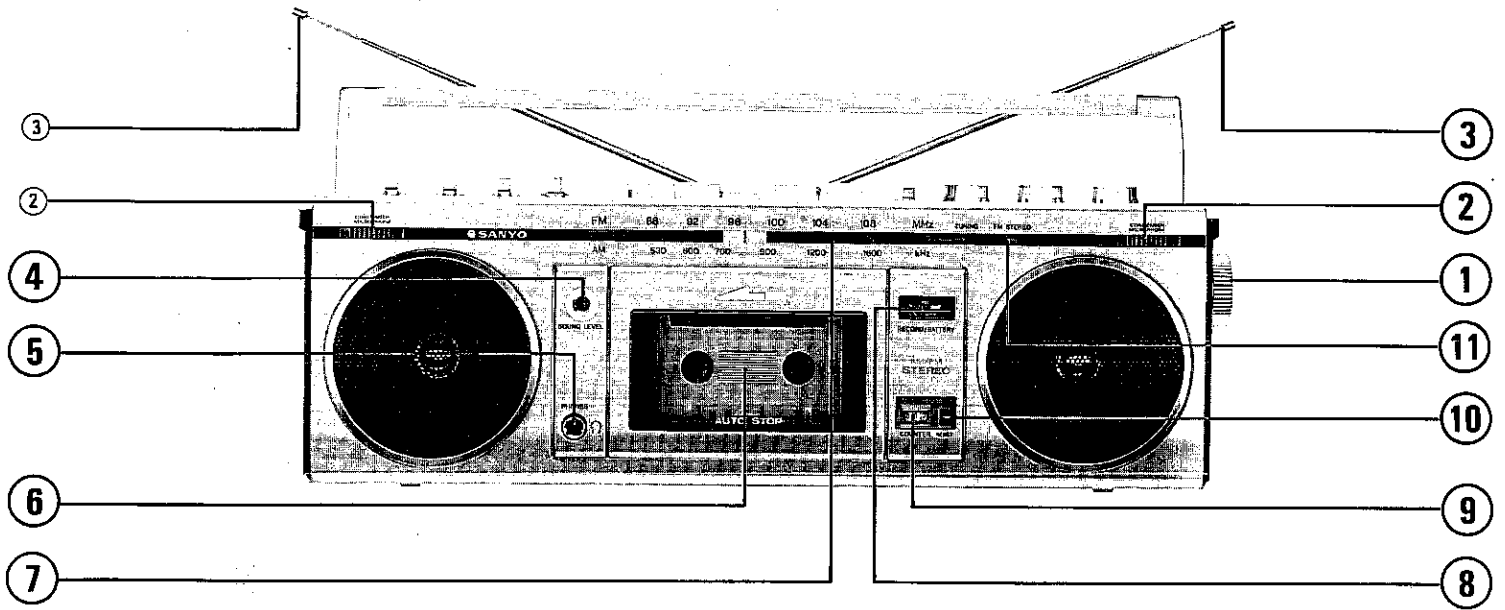
Stereo Radio

Cassette Recorder



M7700F

CONTROLS

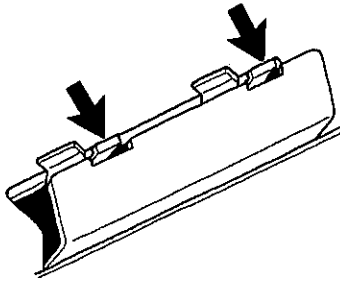


- | | | |
|--|--|---|
| 1. Tuning Control (TUNING) | 13. Mode Switch (MODE) | 25. Balance Control (BALANCE) |
| 2. Built-in Microphone | 14. Function Switch (FUNCTION) | 26. Tone Control (TONE) |
| 3. Antennas | 15. Mic Jack for Mixing Mic (MIC) | 27. Volume Control (VOLUME) |
| 4. Sound Level Indicator (SOUND LEVEL) | 16. Mixing Volume Control (MIXING VOL) | 28. Left and Right External Microphone Jacks (EXT. MIC) |
| 5. Headphone Jack (PHONES) | 17. Dummy Jack for Remote Control Switch | 29. Dummy Jacks for Remote Control Switch |
| 6. Cassette Compartment | 18. Pause Button (PAUSE) | 30. Left and Right External Speaker Jacks (EXT. SP) |
| 7. Tuning Indicator (TUNING) | 19. Fast Forward/Cue Button (FFWD/CUE) | 31. External Power Jack (DC 7.5V) |
| 8. RECORD/BATTERY Meter | 20. Rewind/Review Button (REW/REVIEW) | 32. Beat Cancel Switch (BEAT CANCEL) |
| 9. Tape Counter (COUNTER) | 21. Play Button (PLAY) | 33. DIN Jack (REC/PB) |
| 10. Reset Button (RESET) | 22. Record Button (REC) | |
| 11. FM STEREO Indicator (FM STEREO) | 23. Stop/Eject Button (STOP/EJECT) | |
| 12. Input Select Switch (INPUT SELECT) | 24. Band Select Switch (BAND) | |

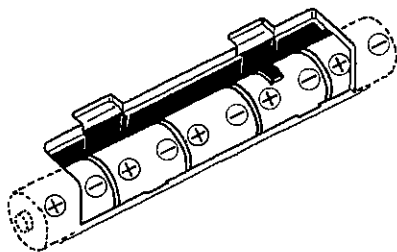
POWER SUPPLY

Battery Operation

1. Open the battery compartment lid located at the rear of the recorder by pushing the latches in the direction of the arrows.



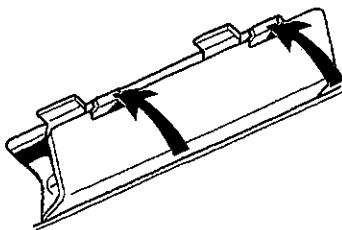
Install five (5) size "C" flashlight batteries, matching the polarities (+ and -) as indicated inside the battery compartment and placing the strip underneath for easy battery removal.



NOTE:

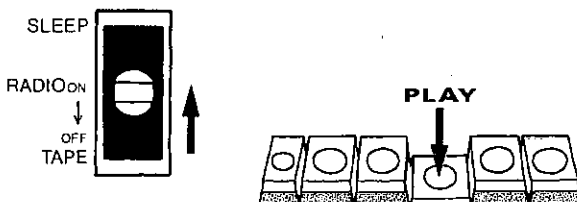
If the batteries are not installed in the direction shown inside the battery compartment, the unit will not operate properly and damage to the unit may result.

3. Close the battery compartment lid.



Battery Checking

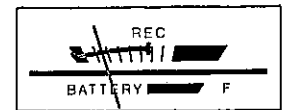
1. Check the battery condition by setting the Function Select Switch to the "RADIO ON" position or push the PLAY button.



2. The pointer of the Record/Battery Meter should show a maximum swing to the right when the batteries are in good condition and are making good contact.



* Good condition



* Replace all batteries.

3. If the pointer stays out of the "GREEN" zone, the batteries are exhausted and all batteries must be replaced by new ones.

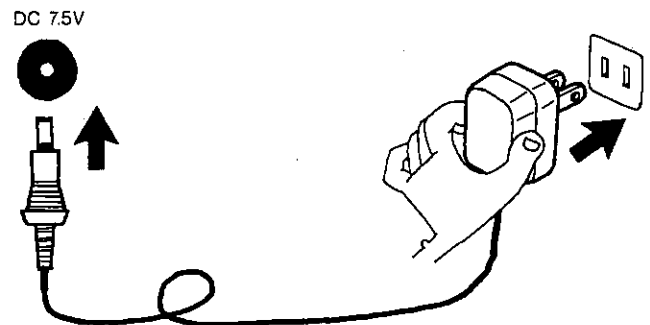
IMPORTANT:

Exhausted batteries may leak and damage the recorder. Always remove the batteries if the recorder is not to be used for one month or more, or to be used on AC only.

AC Operation

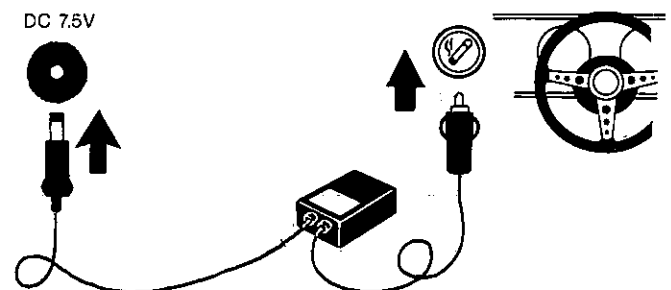
This recorder can also be operated on AC power by using the OPTIONAL AC adapter.

Plug the lead from the AC adapter into the External Power Jack (marked DC 7.5V) on the left side of the recorder. Insert the plug prongs into an AC wall outlet.



Car Battery Operation

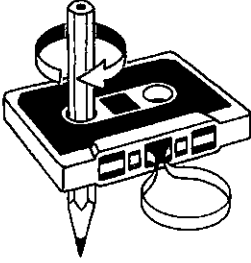
This recorder may be operated in an automobile having a 12-volt negative ground battery with the OPTIONAL Car Adapter Cord (Model No. CA-97S). Connect the small end of the car adapter cord to the External Power Jack and the other end to the cigarette lighter socket of the car.



TAPE CASSETTE

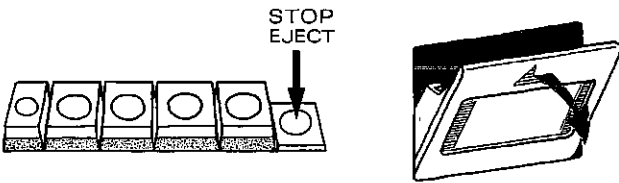
Checking the Cassette

Make sure that the cassette tape has no slack before inserting the cassette into the recorder. If the tape is not tight, it may wind around the head mechanism and trouble may result. Use a pencil as shown in the picture to take up the slack on one of the reels.

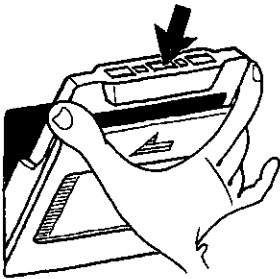


To Insert Cassette

1. Press the STOP/EJECT button. Press it again if any of the buttons are depressed.



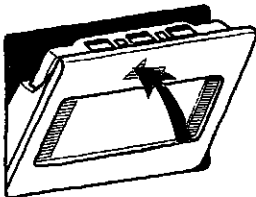
2. Insert a cassette with the full reel on the right and side to be played or recorded facing you.



NOTE:

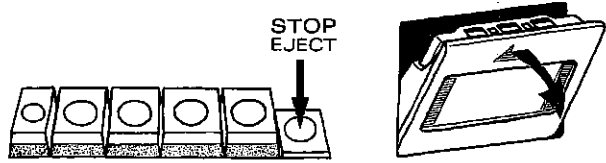
When inserting the cassette, handle the plastic portion of the cassette. Touching the exposed tape may damage it.

3. Close the cassette compartment lid.

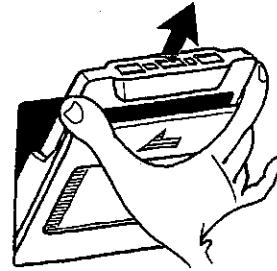


To Remove Cassette

1. Press the STOP/EJECT button. Press it again if any of the buttons are depressed.

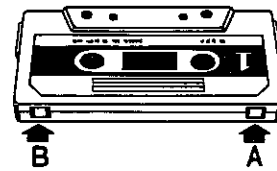
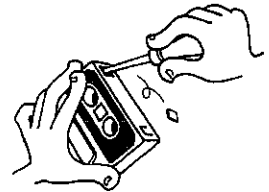


2. Remove the cassette from the compartment.



Safeguard Against Accidental Erasure

To safeguard valuable recordings against accidental erasing, break out the flaps at the rear of the cassette. Use a screwdriver for this purpose.



Remove flap A at the right to preserve sound on Side 1 and flap B for Side 2.

Cover the opening hole with adhesive tape for re-recording.



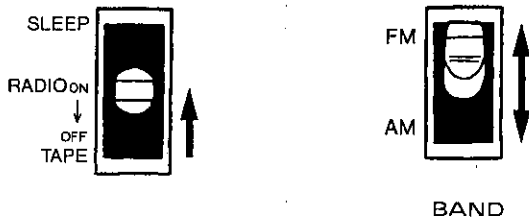
Important:

1. The RECORD button cannot be depressed when a cassette without these protective flaps is inserted. DO NOT press the RECORD button FORCIBLY when using these cassettes.
2. Almost all pre-recorded tapes are sold with these protective flaps already removed.

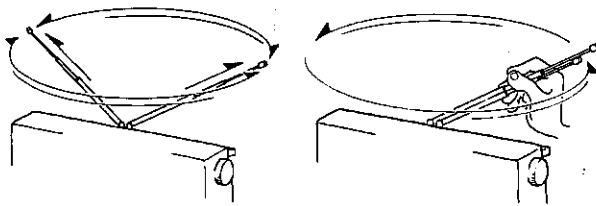
OPERATION

Radio Reception

- Place the Function Select Switch in the "RADIO ON" position and then set the Band Select Switch to the desired radio band.



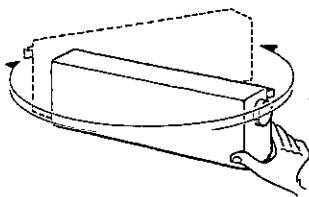
- For FM reception, pull out the two antennas and determine the direction, length and angle for best reception. The length and angle of the left and right antennas must be identical and symmetrical.



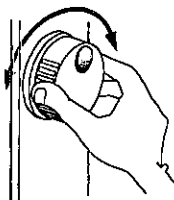
* Correct

* Incorrect

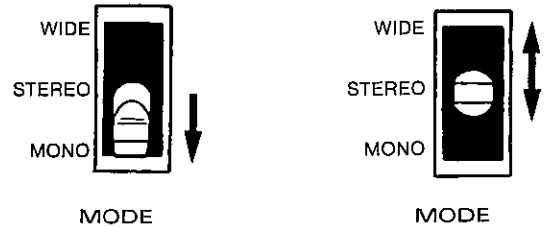
For AM, the antenna inside of the unit is somewhat directional. So the reception from distant stations may sometimes be improved by rotating the unit.



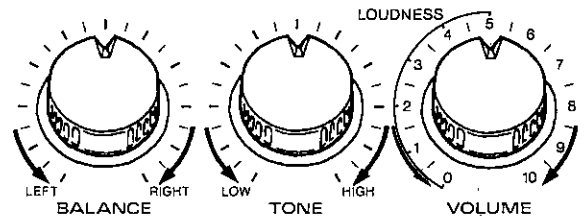
- Tune in a station by turning the Tuning Control as the Tuning Indicator glows when you have tuned in the maximum signal strength of a broadcasting station on the AM or FM band.



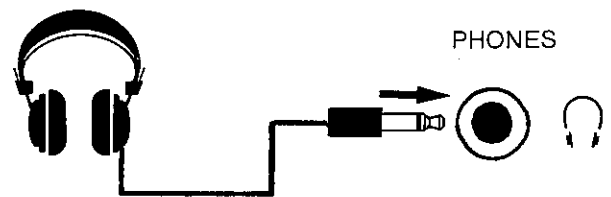
- For AM reception, set the Mode Switch to the "MONO" position. For receiving an FM stereo broadcast station, set the switch to "STEREO". The FM Stereo Indicator will light when a stereo broadcast is being received regardless of the Mode Switch position. The matrix stereo will be obtained by setting the Mode Switch to the "WIDE" position.



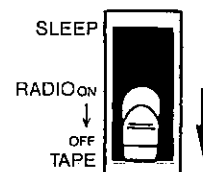
- Adjust the Volume, Tone and Balance Controls for the desired sound volume and tonal quality. The sound level indicator will flicker depending on the output sound levels.



- For private listening, plug the optional stereo headphones into the PHONES jack on the front of the unit.

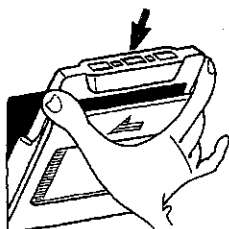
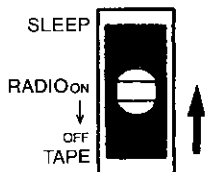


- To turn off the radio, set the Function Select Switch to the "TAPE" position.

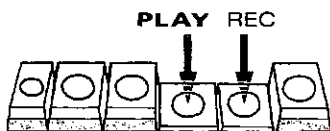
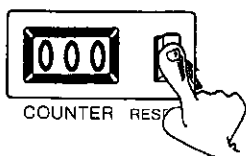


Recording from built-in radio

1. Set the Function Select Switch to the "RADIO ON" position and then insert a cassette with the full reel on the right.



2. Select the band and then tune in the desired radio program. Follow the instructions as described under "Radio Reception".
3. Press the Tape Counter Reset button to reset the counter to "000". The tape counter is very useful in playing back a particular selection. Therefore, make a note of the counter numbers at the beginning of each selection while recording. Depress the RECORD and PLAY buttons simultaneously. Now you are ready for recording.



4. Since you can monitor the sound through the speakers regardless of the volume control setting, adjust the Volume, Tone and Balance controls to the desired sound volume and tonal quality.
5. When recording an AM radio program on tape, an irritating beat sound may sometimes be heard caused by interaction between the recording bias frequency and the radio frequency. In such a case, simply set the Beat Cancel Switch, located on the left side of the unit, to the other position.
6. To stop the tape instantly during recording, depress the PAUSE button. To start it again, re-press the button.
7. Press the STOP/EJECT button and set the Function Select Switch to the "TAPE" position to stop recording completely. When the tape is wound completely onto the left side reel while recording, the RECORD and PLAY buttons will be released automatically, but the radio will remain "ON".

NOTE:

When you record an FM stereo program, set the Mode Switch to "STEREO".

Recording from Built-in Condenser Microphones

1. Make sure nothing is plugged into the MIC jacks, and set the Function Select Switch to the "TAPE" position.
2. Press the STOP/EJECT button and insert a cassette with the full reel to the right. Then press the Tape Counter Reset button.
3. Set the Input Select Switch to "MIC" and the Mode Switch to "STEREO".
4. Depress the RECORD and PLAY buttons simultaneously. Now you are recording. Speak in a normal voice at a distance of approximately 30cm from the built-in microphones. If the RECORD/BATTERY meter pointer does not swing to the right, full recording levels are not being achieved and the microphones should be moved closer to the person speaking.
5. This unit has an automatic level control (ALC) circuit and so does not require any adjustment to the volume control while recording.
6. If you wish to stop the tape temporarily without resetting the RECORD and PLAY buttons, depress the PAUSE button. To start again, depress the PAUSE button a second time.
7. To stop the recording completely, press the STOP/EJECT button. When the tape is wound completely onto the left side reel while recording, the RECORD and PLAY buttons will be released automatically.

Recording from External Microphones (optional)

1. Set the Input Select Switch to the "MIC" position and the Function Switch to the "TAPE".
2. Press the STOP/EJECT button and insert a cassette with the full reel on the right.
3. Connect optional external microphones to the left and right MIC jacks. The Mode Switch should be set to the "STEREO" position when you make a stereo recording. For monaural recording, connect one microphone to the left channel MIC jack with the Mode Switch in the "MONO" position.

CAUTION:

To prevent acoustic feedback howl while recording, keep the microphone away from the speakers and reduce the monitor volume as much as possible.

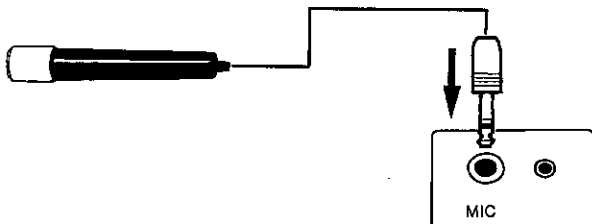
4. Press the Counter Reset button and then press the RECORD and PLAY buttons simultaneously.
5. Press the PAUSE button to stop the recording at any position. To stop the recording completely, press the STOP/EJECT button. When the tape is wound completely while recording, the RECORD and PLAY buttons will be released automatically.

NOTE:

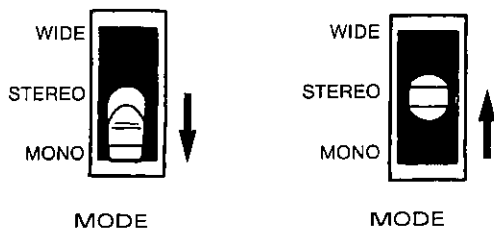
When using an external microphone having a remote control switch, plug the short plug into the dummy jack but remote control switch does not function.

Recorded Tape and Mixing Microphone

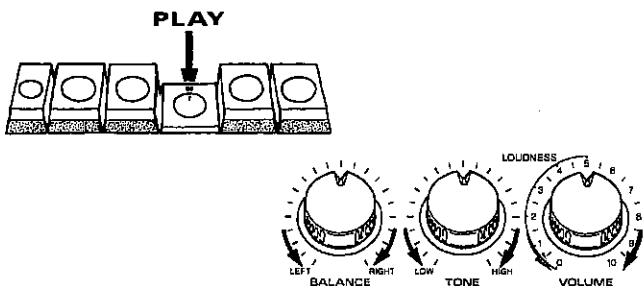
1. If you wish to sing a duet with your favorite singer, insert the recorded cassette you wish to sing along with.
2. Plug the mixing microphone into the mixing microphone MIC jack on the top of the unit.



3. Set the Function Select Switch to "TAPE" and Mode Switch to the "MONO" or "STEREO" position, depending on the recorded cassette to be used.



4. Depress the PLAY button and adjust the Volume, Tone and Balance Controls.



5. Adjust your voice with the Mixing Volume Control and sing along.

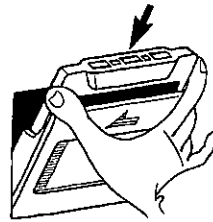


6. If you wish to record this mixed sound, connect your unit to another tape deck or recorder with a DIN cable.
7. To stop the playback, depress the STOP/EJECT button.

Sleep Timer Operation

Your unit allows you to fall asleep while listening to or recording a radio program, and it will shut itself off automatically.

1. Insert a cassette for the length of listening or recording time you prefer before radio shuts off.

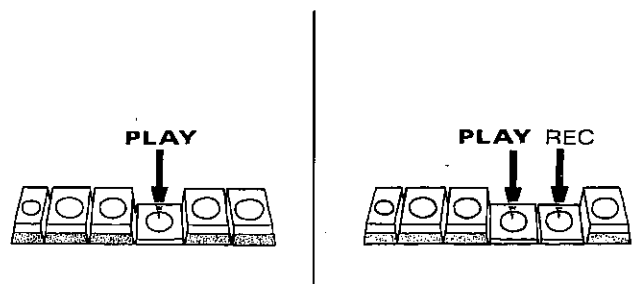


	→	15 MIN
C-60	→	30 "
C-90	→	45 "

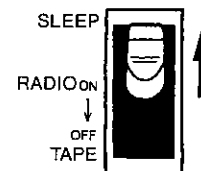
NOTE:

The radio operating time is determined by the length of the tape to be used. The radio will play up to 30 minutes when using one side of a C-60 cassette and 60 minutes with a C-120 cassette tape.

2. Set the Function Select Switch to the "RADIO ON" position.
3. Select the desired radio band with the Band Select Switch, and tune to the station. See "Radio Reception" section.
4. Press the PLAY button. If you wish to record a radio program, press the RECORD and PLAY buttons simultaneously.



5. Set the Function Select Switch to the "SLEEP" position. If you use a C-60 cassette tape, the radio and tape sections will shut off automatically in 30 minutes.

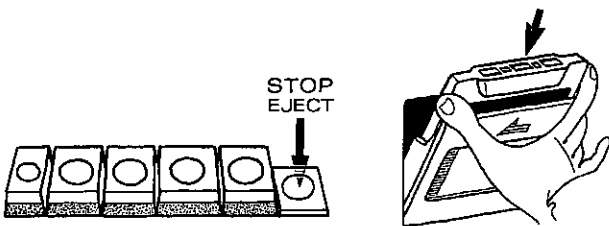


NOTE:

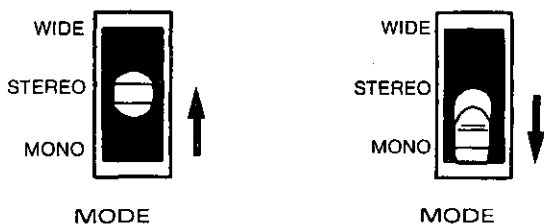
If you want to listen to the radio program continuously after the radio is shut off, set the Function Select Switch to the "RADIO ON" position.

Playback

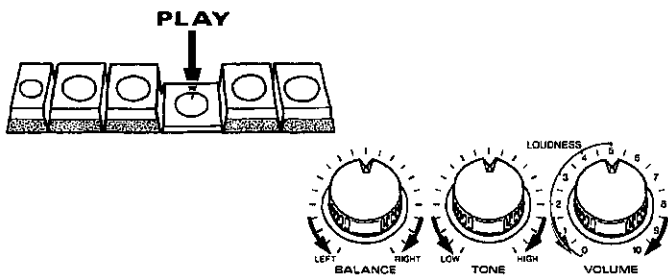
1. Set the Function Select Switch to the "TAPE" position.
2. Press the STOP/EJECT button and insert the recorded cassette with the full reel on the right and side to be played facing you.



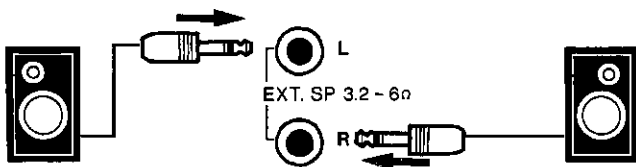
3. When using a stereo tape, set the Mode Select Switch to the "STEREO" position. For a monaural tape, set the selector to the "MONO" position.



4. Depress the PLAY button and your unit will begin to play back. Adjust the Volume, Tone and Balance controls for the desired sound volume and tonal quality.



5. You can also enjoy the sound of your recorded tape through external speakers by connecting them to the left and right external speaker jacks (external speakers are optional extras and must have a 4-ohm impedance.)



6. To stop the playback instantly, depress the PAUSE button. Release the button to start it again. To stop the playback completely, press the STOP/EJECT button. When the tape is wound completely onto the left reel during playback, the PLAY button will be released automatically.

Cue & Fast Forward

If the FAST FORWARD/CUE button is depressed, in the PLAYBACK mode the tape runs forward at high speed and the recorded portion produces "cue" (chattering) sound. Thus, the recorded and unrecorded portions of the tape can be easily distinguished for easy tape scanning. When the CUE/FAST FORWARD button is released, the playback mode will be resumed.

For normal fast forward operation, press the STOP/EJECT button to release the PLAY button and then depress the CUE/FAST FORWARD button. Push the STOP/EJECT button when the desired portion of the tape is reached.

Review & Rewind

When the REVIEW/REWIND button is depressed in the RECORD or PLAY mode (the RECORD button will be released in the RECORD mode), the tape will rewind until you release the button. By releasing the button, the recorder will go into the playback mode. This feature allows quick repeat play of a section without resetting the controls, or quick review of just-recorded programs.

NOTE:

If you wish to review a program you have just recorded from the built-in radio, the Function Select Switch should be set to the "TAPE" position before pushing the Review button.

For normal rewinding, press the STOP/EJECT button to release the PLAY button and then press the REVIEW/REWIND button. Push the STOP/EJECT button again to release the REVIEW/REWIND button.

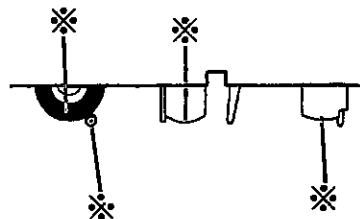
MAINTENANCE

1. Cleaning the heads, the pinch roller and the capstan.

To assure continued high performance from your recorder, periodically clean the heads, the pinch roller and the capstan whenever dust and red-brown oxide particles have accumulated.

These particles may be removed with a cotton swab moistened in isopropyl alcohol or special head-cleaning fluid.

To do this properly, depress the STOP/EJECT button to open the cassette compartment. Depress the PLAY button, causing the heads to project from its housing. Carefully rub the face of the heads and also the surface of the capstan and the pinch roller.



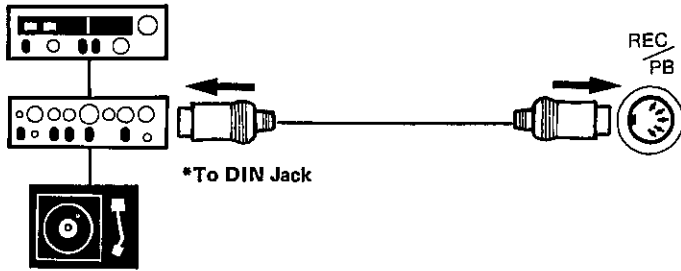
2. Cleaning other parts.

Use a clean soft cloth moistened with plain lukewarm water. Never use benzol, benzine, alcohol or other strong chemical cleaners since these could damage the finish of your unit. It is important that no liquid penetrates inside the unit.

ACCESSORY CONNECTIONS

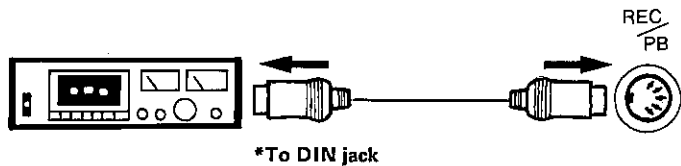
NOTE: Connecting cables are all optional extras.

To Record from Stereo Sound System



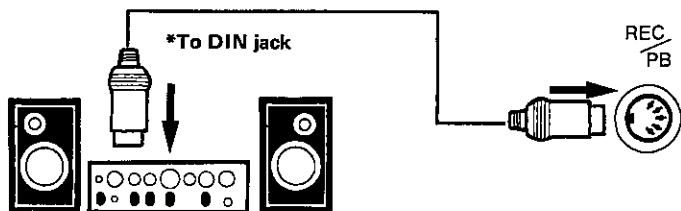
1. Input Select Switch: REC/PB position.
2. Mode Switch: STEREO position.
3. Function Select Switch: TAPE position.
4. Insert cassette and then depress the RECORD and PLAY buttons.

To Record from Stereo Cassette Tape Deck



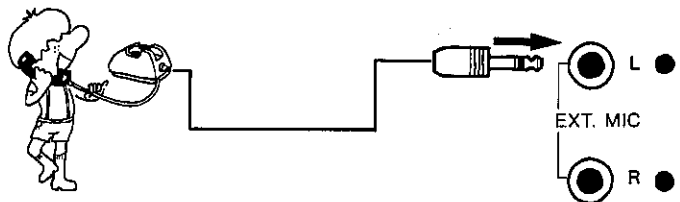
1. Input Select Switch: REC/PB position.
2. Mode Switch: STEREO position.
3. Function Select Switch: TAPE position.
4. Operate the stereo cassette tape deck.
5. Insert cassette and then depress the RECORD and PLAY buttons.

Listening to Radio or Cassette Tape through Amplifier



1. Mode Switch: STEREO or MONO position.
2. Function Select Switch: RADIO ON position (listening to radio)
TAPE position (listening to tape)
3. Press the PLAY button for listening to tape.

To Record from Telephone

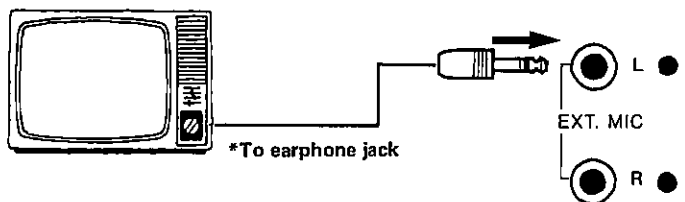


1. Input Select Switch: MIC position.
2. Mode Switch: MONO position.
3. Function Select Switch: TAPE position.
4. Insert cassette and then depress the RECORD and PLAY buttons.

*Attach the suction cap of the telephone pick-up to the telephone case.

*Plug the telephone pick-up into the left MIC jack.

To Record from TV set



1. Input Select Switch: MIC position.
2. Mode Switch: MONO position.
3. Function Select Switch: TAPE position.
4. Insert cassette and then depress the RECORD and PLAY buttons.

*Plug the patch cord into the left MIC jack.

MIC MIXING

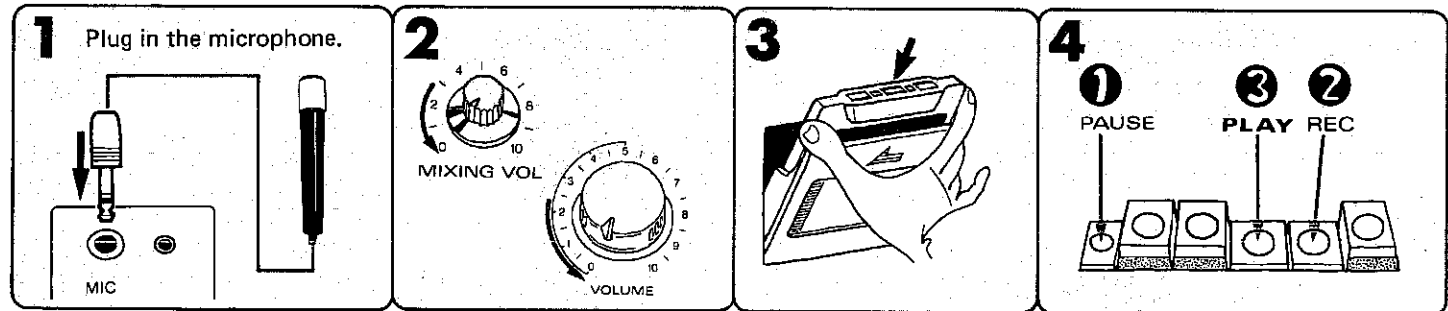
Important:

1. If you set the sound volume too high or the microphone too close to the speaker, howl will occur. In this case, reduce the sound volume or move the microphone away from the speaker.
2. When the Volume Control is set to "0" position, the

mixing sound cannot be heard even if the Mixing Volume Control is placed in "10" position.

3. The recording level of the sound source (built-in radio, through left and right external MIC jacks or through DIN jack) is adjusted automatically by the ALC circuit, but the recording level of mixing mic should be adjusted by the Mixing Volume Control.

Preparation for MIC Mixing



Built-in Radio and Mixing Microphone

1. Turn on the radio by following the instructions under "Radio Reception".
2. Adjust the Volume, Tone and Balance Controls for the desired sound level and tonal quality.
3. Adjust the recording level of the mixing microphone with the Mixing Volume Control.
4. Release the PAUSE button by pressing it again. You are now recording.
5. To stop the mixing, depress the STOP/EJECT button and then set the Function Select Switch to "TAPE".

6. To stop the recording, press the STOP/EJECT button.

NOTE:

When you use one external microphone, plug it into the "LEFT" MIC jack.

Stereo Sound System and Mixing Microphone

1. Connect your unit to the sound system. See the "Accessory Connections" section.
2. Set switches as follows:
Input Select Switch: REC/PB position.
Mode Switch: STEREO position.
Function Select Switch: TAPE position.
3. Follow steps 3 through 6 under "Two External Microphones and Mixing Microphone".

Two External Microphones and Mixing Microphone

1. Plug the external microphones into the left and right external MIC jacks.
2. Set switches as follows:
Input Select Switch: MIC position.
Mode Switch: STEREO position.
Function Select Switch: TAPE position.
3. Adjust the Volume, Tone and Balance Controls for the desired sound level and Tonal Quality.
4. Adjust the recording level of the mixing microphone with the Mixing Volume Control.
5. Release the PAUSE button by pressing it again. You are now recording.

TV Set and Mixing Microphone

1. Connect your unit to TV set. See "Accessory Connections".
2. Set switches as follows:
Input Select Switch: MIC position.
Mode Switch: MONO position.
Function Select Switch: TAPE position.
3. Follow steps 3 through 6 under "Two External Microphones and Mixing Microphone".



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