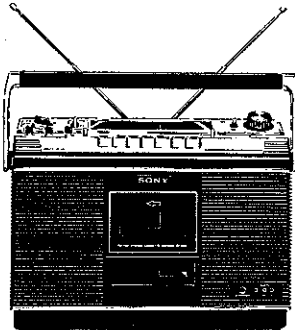


FM/AM STEREO CASSETTE-CORDER

CF-580



Operating Instructions

- Before operating the set, please read this manual thoroughly.
- This manual should be retained for future reference.

OWNER'S RECORD

For your convenience, record the model number and serial number (you will find them on the rear of your set) in the space provided below. Please refer to them when you contact your Sony dealer in case of difficulty. This will be a great help to you in getting better and more satisfactory service on your set.

Model No. CF-580

Serial No. 20566

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FEATURES

- Your new Sony CF-580 offers you matrix stereo sound through four dynamic speakers in a single cabinet.
- Stereo cassette recording system gives high fidelity performance.
- Phono jacks enable you to connect the recorder to a stereo component system.
- SONY-MATIC recording control system automatically adjusts and maintains a proper recording level.
- All-mode shut-off mechanism turns off the recorder at end-of-tape in any operating mode.
- With the Sony Variable-Monitor System, a program to be recorded may be listened to at any desired sound volume and tone controls setting without affecting the recording.
- With the TAPE SELECT switch, either highest fidelity chromium dioxide cassettes or Sony Ferri-Chrome cassettes can be used, as well as standard cassettes.
- Three different power systems; batteries, house current, and 12 V car battery, enable you to use the recorder anywhere.

WARNING

- To prevent fire or shock hazard, do not expose the set to rain or moisture.
- To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

PRECAUTIONS

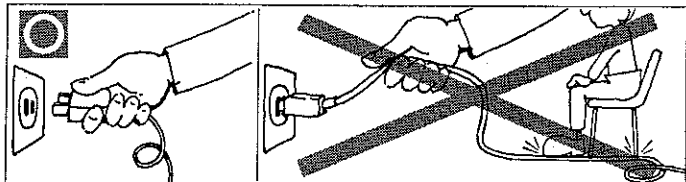
- Operate the set only on 120 V ac or 12 V dc.

For ac operation, use the ac power cord supplied.

For car battery operation, use the car battery cord recommended for this set. Do not use any other ac power cord or car battery cord.

- The marking indicating operating voltage, power consumption, etc. is located on the rear exterior.

- Unplug the set from the ac wall outlet when it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull it by the cord.



- When the set is not to be used for a long period of time or is to be operated extensively on other power sources, remove the batteries to avoid set damage from battery leakage.

- Do not install the set in a location near heat sources such as radiators or airducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

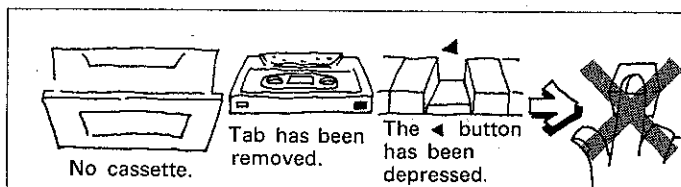
- Allow adequate air circulation to prevent internal heat build-up. Do not place the set on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

- Should any liquid or solid object fall into the mechanism, unplug the set and remove the batteries, and have the set checked by qualified personnel before operating it any further.

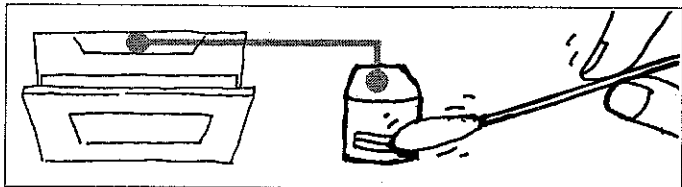
- The RECORD, ◀◀, ◀ and ▶▶ button cannot be locked, if the POWER switch set to OFF. (The RECORD button cannot be depressed if no cassette is in the Cassette Holder.)

- Even if the POWER switch is set to ON, the RECORD button cannot be depressed in the following cases. Never depress the button forcibly.

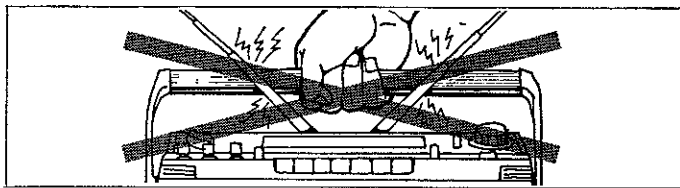
- No cassette in the Cassette Holder.
- The cassette inserted has had the tabs removed.
- The ◀ button has been depressed.



- Keeping the tape heads in a clean condition is essential to the proper operation of the recorder. For cleaning information, refer to page 13.

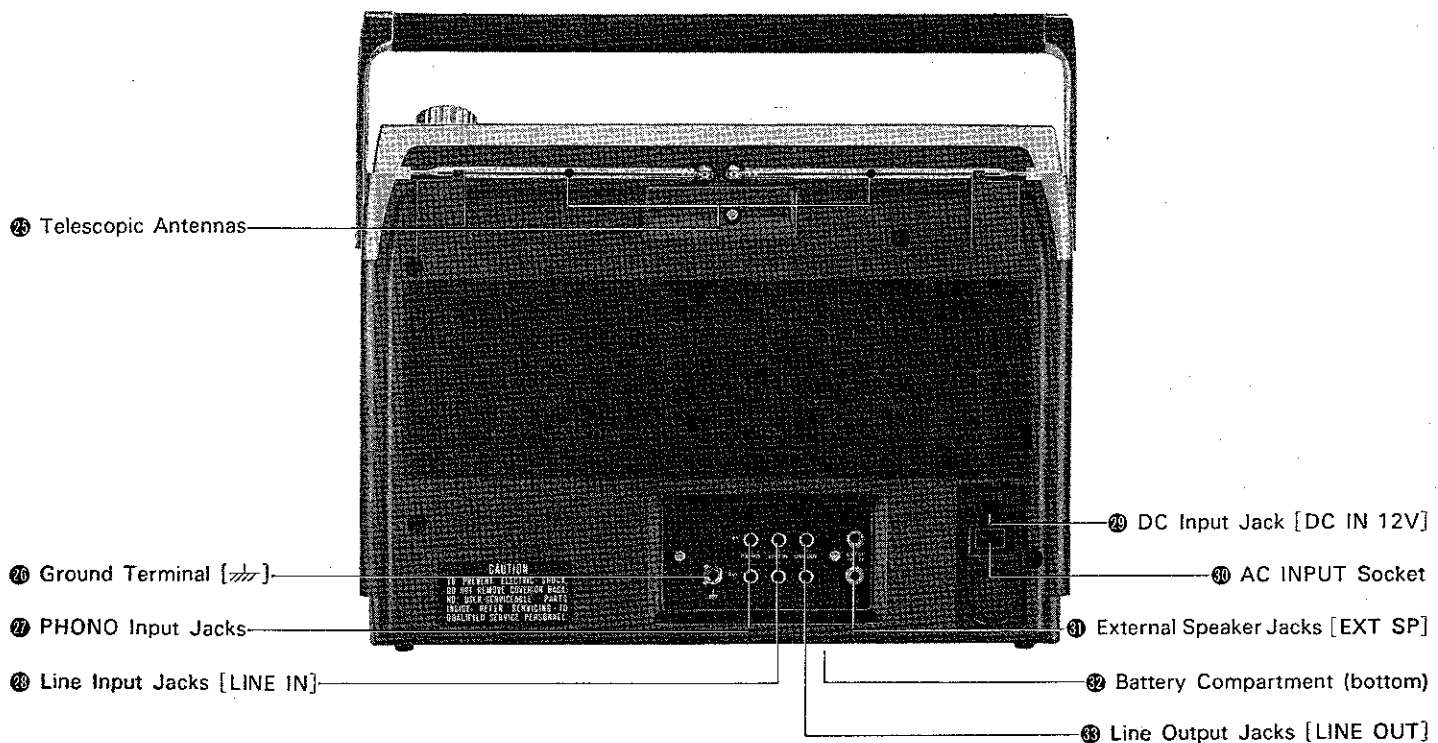
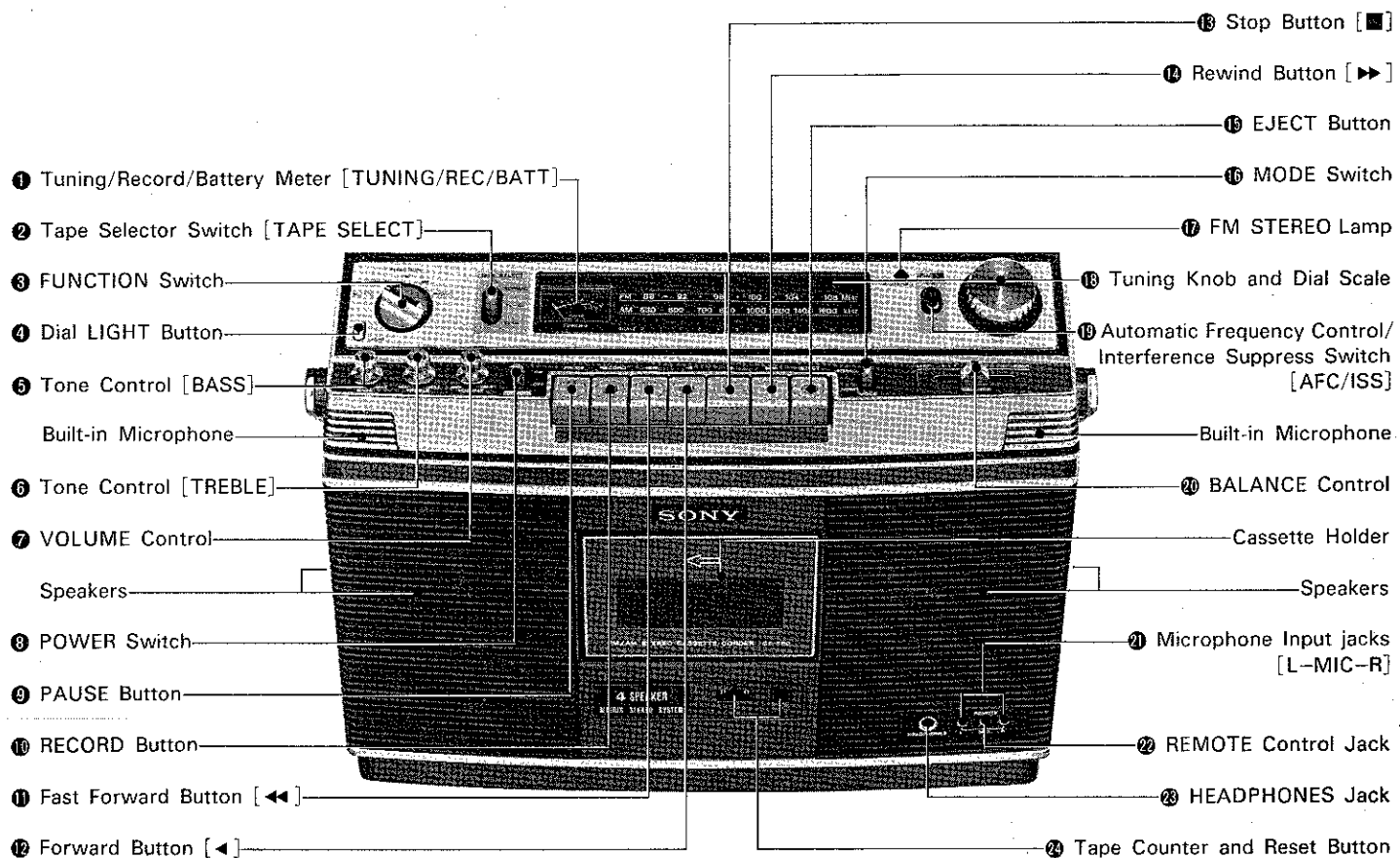


- Be careful not to lift the handle of the set while the Telescopic Antenna is in a raised position. There is then the possibility of putting excessive pressure on the antenna.



- If you have any question or problem concerning your set that is not covered in this booklet, please consult the nearest Sony Service Station authorized to service tape recorders (in U.S.A.) or the nearest Sony of Canada Factory Service Station (in Canada).

LOCATION AND FUNCTION OF CONTROLS



① Tuning/Record/Battery Meter [TUNING/REC/BATT]: When the FUNCTION switch is set to FM or AM, the meter shows tuning condition. When the FUNCTION switch is set to MIC/TC, LINE IN or PHONO, the meter shows the battery condition. While recording, the pointer swings to indicate an input sound signal.

② Tape Selector Switch [TAPE SELECT]:

Set to the proper position according to the type of tape used in recording or playback.

NORMAL: For standard cassette including Sony HF cassette

Fe-Cr: For Sony Ferri-Chrome cassette

CrO₂: For chromium dioxide cassette

③ FUNCTION Switch:

MIC/TC: For playing back the tape or recording from the Built-in Microphones or MIC jacks.

LINE IN: For recording from LINE IN jacks or listening to the sound of the equipment connected to LINE IN jacks.

FM: For listening to or recording FM programs.

AM: For listening to or recording AM programs.

PHONO: For listening to or recording a disc program connected to PHONO jacks.

④ Dial LIGHT Button: While operating, keep the button depressed to illuminate the Dial Scale and Meter.

⑤ Tone Control [BASS]

Turn clockwise for more bass.

⑥ Tone Control [TREBLE]

Turn clockwise for more treble.

⑦ VOLUME Control: Turn clockwise for more volume.

⑧ POWER Switch: Set to ON to turn on the power.

⑨ PAUSE Button: Depress to momentarily stop the tape during recording or playback. To restart, depress it again. This button can also be used for standby recording. Depress the PAUSE button first and keep the RECORD button depressed and press the ◀ button. When the desired program starts, push the PAUSE button to release it, and the recording starts immediately.

● To stop the tape for an extended time, use the ■ button on the recorder.

● The PAUSE button is not operative for stopping the tape in fast forward or rewind mode.

⑩ RECORD Button: To record, keep this button depressed, and depress the ◀ button.

⑪ Fast Forward Button [◀◀]: Depress to rapidly advance the tape.

⑫ Forward Button [◀]: Depress for playback. To record, keep the RECORD button depressed, and press the button.

⑬ Stop Button [■]: Depress to stop the tape and to release the locked buttons.

⑭ Rewind Button [▶▶]: Depress to rewind the tape.

⑮ EJECT Button: Depress to open the Cassette Holder.

⑯ MODE Switch

STEREO: For normal operation.

The recorder automatically operates in matrix sound stereo or mono mode depending on the input sound source.

MONO: For listening to any input sound monophonically.

● If FM reception is inadequate or excessive noise occurs, set the switch to MONO. The reception will be more stable and noise will be reduced.

The position of the MODE switch is not effective in the recording mode except for the FM stereo program recording. Stereo or mono mode in recording is established by the source being recorded.

⑰ FM STEREO Lamp: Lights when a sufficiently strong FM stereo program is tuned in with the MODE switch set to STEREO.

⑱ Tuning Knob and Dial Scale: Turn to select the frequency of the desired station on the Dial Scale. Tune so that the pointer of the meter swings to the right as far as possible.

⑲ Automatic Frequency Control/Interference Suppress Switch [AFC/ISS]: Used as the Automatic Frequency Control Switch for FM reception (page 7) or as the Interference Suppress Switch for recording AM programs (page 8).

⑳ BALANCE Control: Turn to adjust right and left speakers volume for optimum stereo effect with the MODE switch set to STEREO.

㉑ Microphone Input Jacks [L-MIC-R]: Minijacks for recording with external microphones.

㉒ REMOTE Control Jack: For remote stop/start operation during recording or playback by connecting the Sony Remote Control RM-15 (optional), Sony Foot Switch FS-6 (optional) or external microphone with remote control facility.

● To stop the tape for an extended time, use the ■ button on the recorder.

㉓ HEADPHONES Jack: Stereo binaural jack for listening with an 8-ohm stereo headphones.

㉔ Tape Counter and Reset Button: Use the counter for indexing the tape contents. Before recording, set the counter to 000 by pushing the Reset Button. The figures of the counter change as the tape passes. Make a note of the figures and the program being recorded. Later on, the desired program can be rapidly located by using the ◀◀ or ▶▶ button.

㉕ Telescopic Antennas: Used for FM reception. (See page 7.)

㉖ Ground Terminal [⏏]: For connecting the ground wire of the record player.

㉗ PHONO Input Jacks: For connecting magnetic cartridge record player.

㉘ Line Input Jacks [LINE IN]: Phono jacks for listening to or recording from a stereo amplifier, another tape recorder or TV.

㉙ DC Input Jack [DC IN 12 V]: For operation from a car battery. (See page 6.)

㉚ AC INPUT Socket: For operation on house current. (See page 6.)

㉛ External Speaker Jacks [EXT SP]: Minijacks for connecting external speakers.

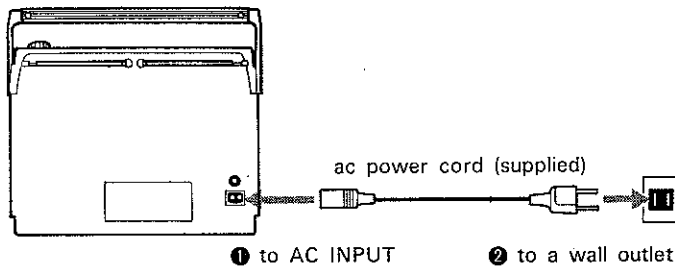
㉜ Battery Compartment (bottom): See page 6.

㉝ Line Output Jacks [LINE OUT]: Phono jacks for playing back tape or for listening to the radio program by connecting with a stereo amplifier, or for duplicating a tape onto another tape recorder.

POWER SOURCES

HOUSE CURRENT

Connect the supplied ac power cord as illustrated.

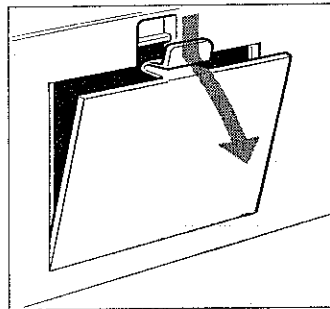


- When the ac power cord is connected to the AC INPUT socket, the internal batteries (if present) are automatically disconnected.

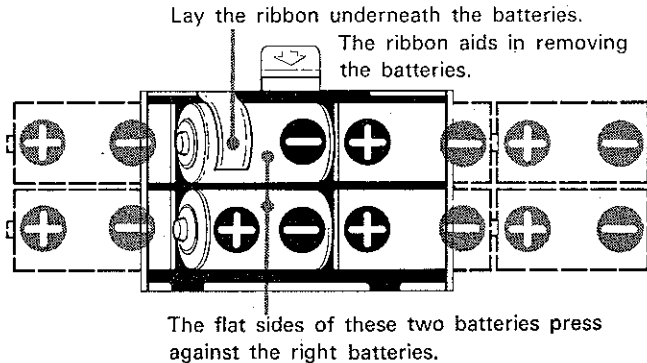
BATTERIES

Battery installation

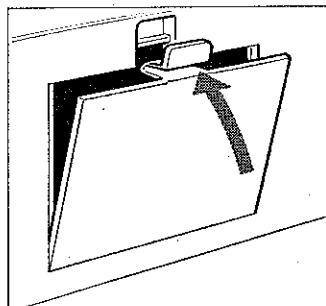
- 1 Push inwards and pull outwards as shown, to open. (bottom)



- 2 Insert eight size D batteries, with correct polarity.



- 3 Close the lid by placing the bottom of the lid into the lower portion of the compartment opening, and pivot the cover down until the tab snaps closed.



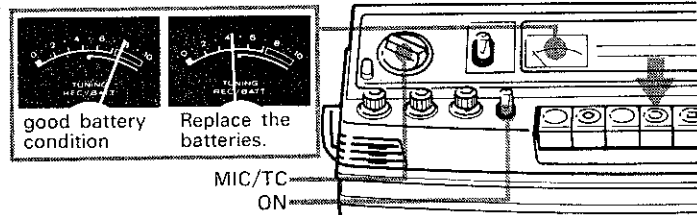
- The set cannot be operated on the internal batteries when either the ac power cord or optional car battery cord is connected to the set.

- When the set is not to be used for a long period of time or is to be operated on other power sources, remove the batteries to avoid set damage caused by possible battery leakage and corrosion.

Battery life: Approximately 14 hours of continuous recording from the Built-in Microphone is possible using Eveready Heavy Duty Batteries No. 1250. Intermittent use will prolong the useful battery life.

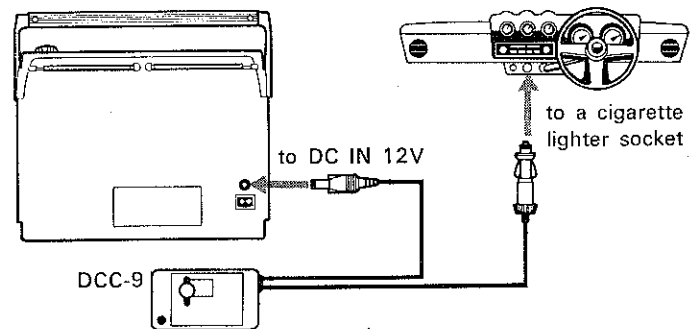
To check battery condition: Set the POWER switch to ON, set the FUNCTION switch to MIC/TC, depress the ◀ button and observe the pointer of the Meter. If the pointer of the Meter stays out of the green zone, replace all the batteries with fresh new ones.

- Before critical recordings, checking the battery condition is recommended.



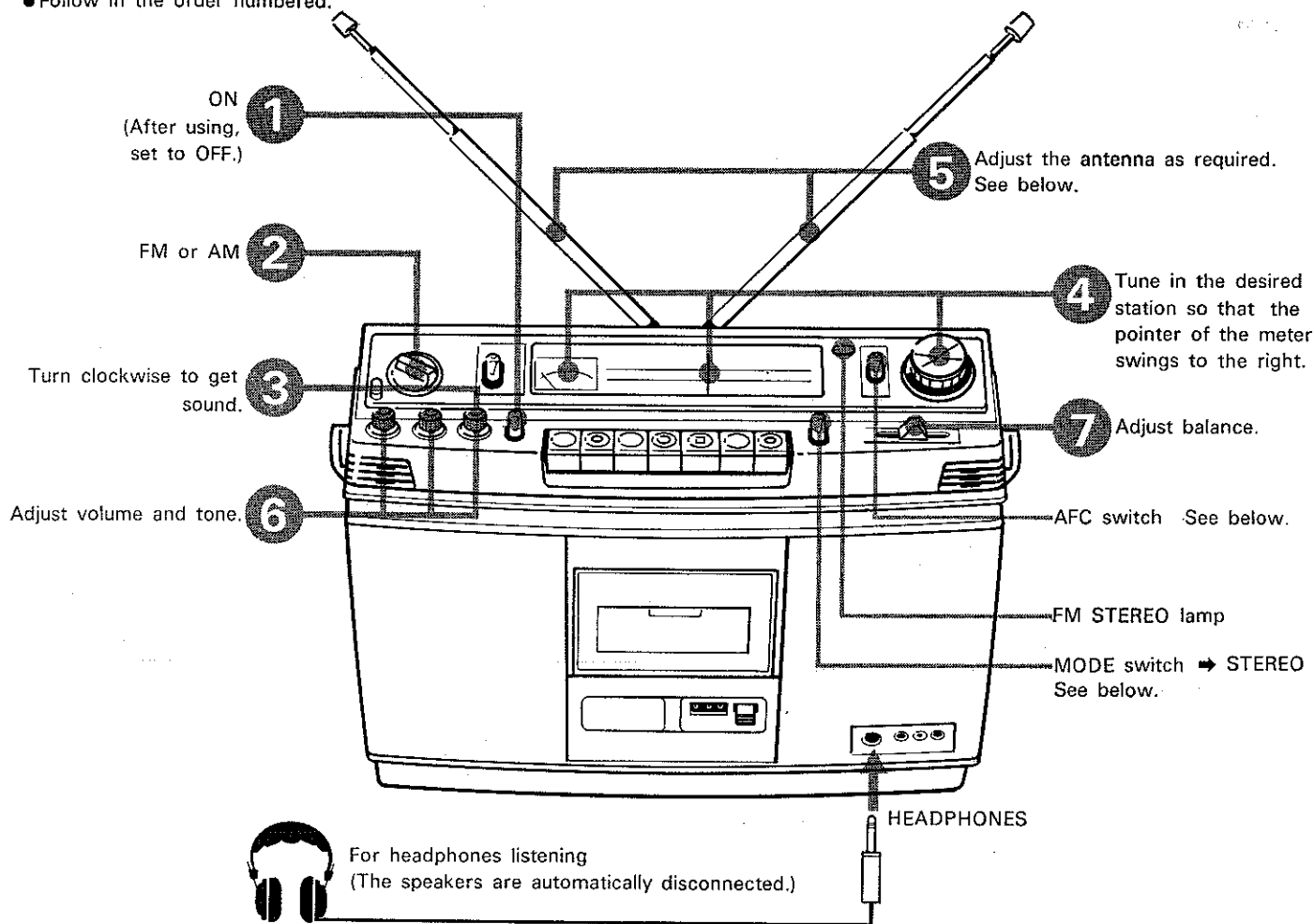
12 V CAR BATTERY

Use the Sony Car Battery Cord DCC-9 (optional), and connect recorder DC IN 12V jack to the cigarette lighter socket of a car. For further details, refer to the instruction manual of the DCC-9.



OPERATION OF THE RADIO

● Follow in the order numbered.



AFC switch

For FM reception, set the the AFC switch to OFF and tune in your desired FM station precisely and then set the switch to ON.

This assures stable FM reception.

If an extremely powerful station is adjacent to the desired station, tuning may be affected when the AFC switch is ON.

In this case, return the switch to OFF.

MODE switch

Normally set the switch to STEREO.

When an FM stereo signal is tuned in, the set operates in matrix sound stereo mode and the FM STEREO lamp lights. If the signal changes to mono the set will automatically switch to mono mode.

● The lamp will light faintly or flicker on very weak stereo signals. If the stereo sounds become noisy, or the channel separation becomes poor, or the lamp flickers or lights faintly, set the switch to MONO.

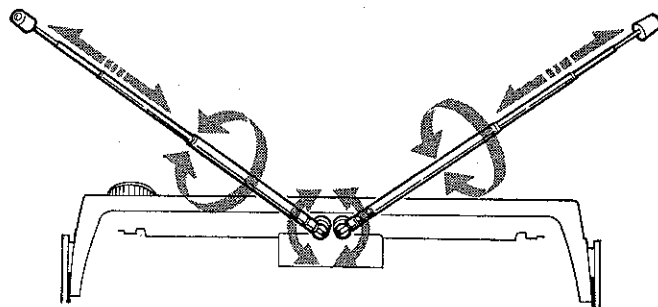
The reception will be more stable and noise will be reduced.

In this mode, of course, there is no stereo effect.

Antenna adjustment

FM: Pull out the two Telescopic Antennas and adjust their length, direction, and angle for the best reception.

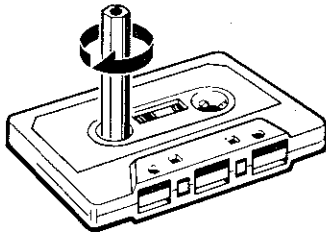
● Be careful not to allow the antennas to touch each other, since this may cause a disturbing noise during reception.



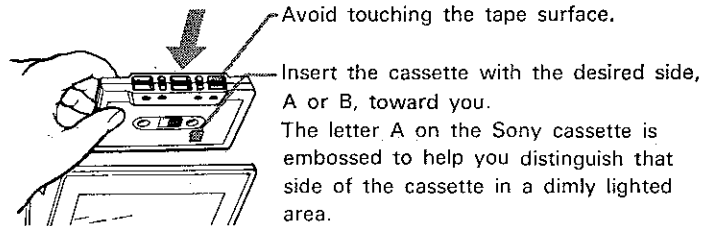
MW: The Telescopic Antennas are not utilized. The built-in fer-rite bar antenna is used instead. Since the antenna is directional, rotate the set horizontally for optimum reception if necessary.

CASSETTE INSERTION

Before inserting a cassette, take up any slack in the tape by inserting a thick pencil into the hub of the cassette and turning it a few times.



- ① Press the EJECT button to open the Cassette Holder.
- ② Place a cassette in the holder as illustrated.

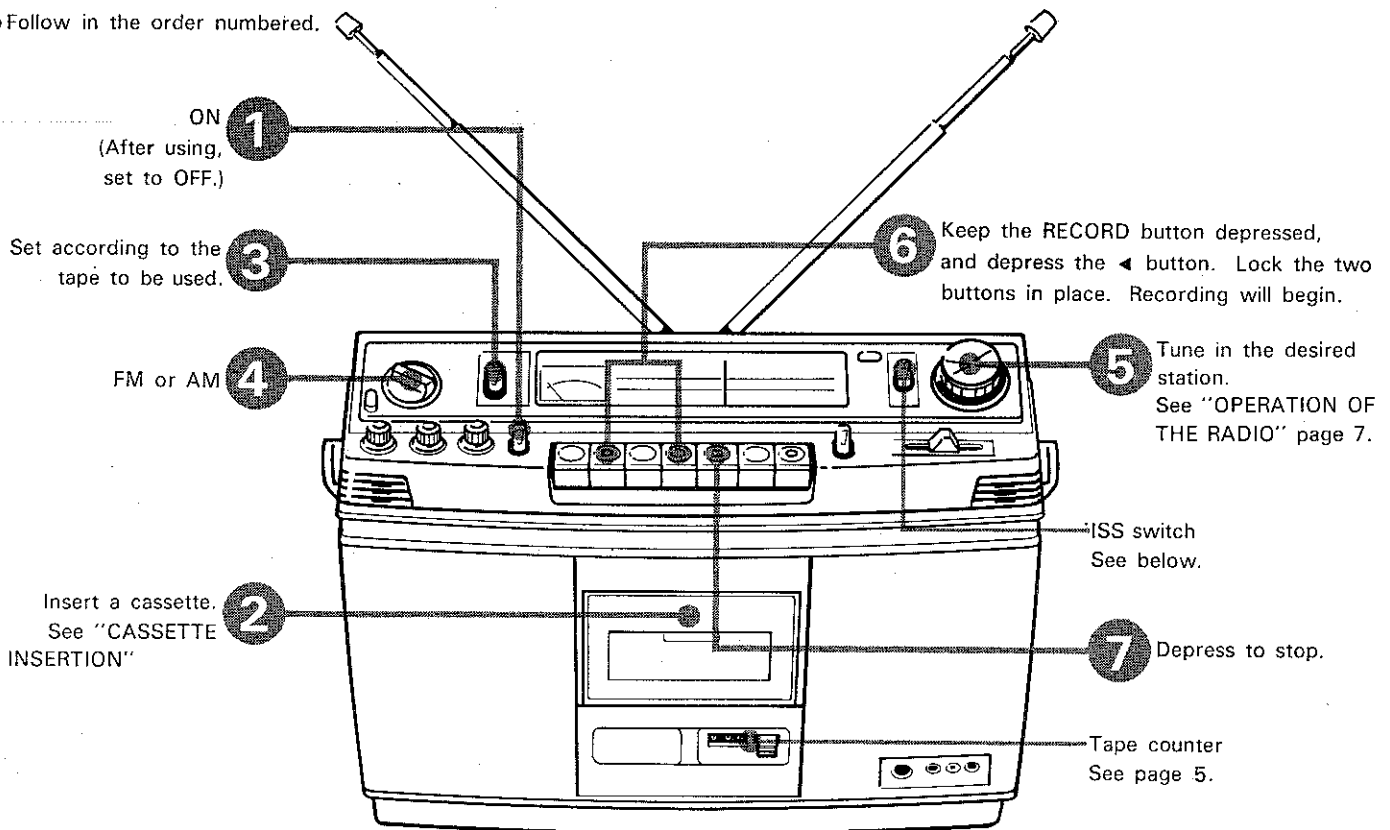


- ③ Close the holder.
- Make sure that the portion of the tape to be played back or recorded is wound onto the right reel. If not, set the POWER switch to ON, depress the ►► button to rewind the tape and stop the tape with the ■ button.
- To take out the cassette, press the EJECT button.

RECORDING

From the built-in radio

- Follow in the order numbered.



ISS Switch

While recording AM programs, if a beat (whistling noise) is heard, which does not occur before depressing the RECORD and ◀ buttons, set the switch to either ON or OFF depending on which best reduces the noise.

- No recording level adjustment is necessary with the SONY-MATIC recording system.
- The pointer of the meter swings during recording.
- The radio sound is heard through the speakers or headphones at any desired volume and tone controls setting without affecting

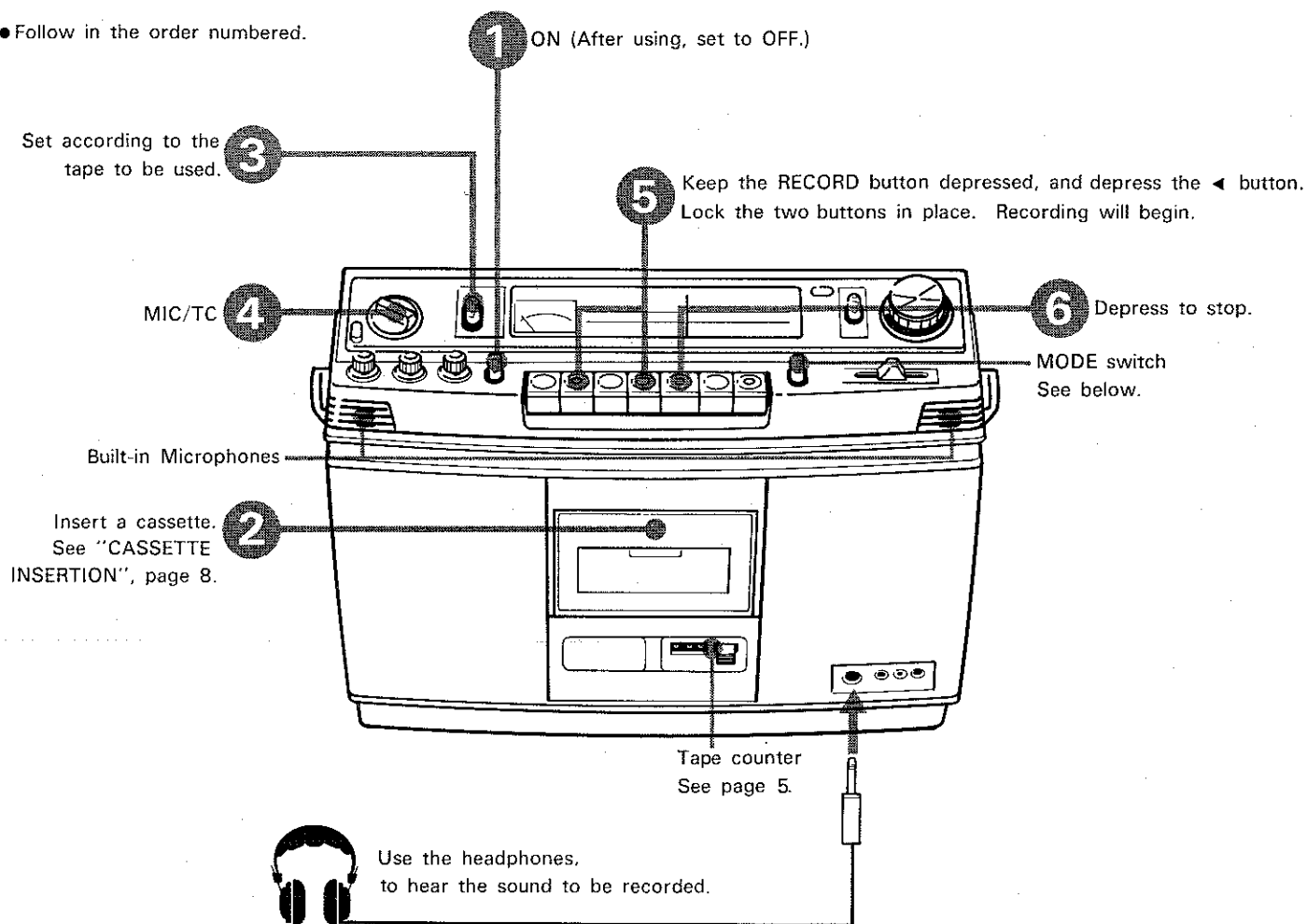
the recording level (Variable-Monitor System).

- At end-of-tape, the tape motion stops and the locked buttons are released and the POWER switch is turned off automatically.
- If the recording is not completed by the end of one side, press the EJECT button, take out the cassette, turn the cassette over, turn the POWER switch ON and repeat the recording procedures.
- To hear the just recorded program, set the FUNCTION switch to MIC/TC, press the ►► button to rewind the tape, stop with the ■ button and depress the ◀ button.

Note: Make sure that the MODE switch is set to STEREO for recording FM stereo programs.

From the Built-in Microphone

- Follow in the order numbered.



● Stereo recording can be made from the Built-in Microphones. The position of the MODE switch does not effect the recording mode, but the sound through the headphones during recording will be in mono mode if the MODE switch is set to MONO.

● No recording level adjustment is necessary with the SONY-MATIC recording System.

● The pointer of the meter swings during recording.

● The sound to be recorded can be heard thorough the headphones at any desired volume and tone controls setting without affecting the recording level.

● At end-of-tape, the tape motion stops and the locked buttons are released and the POWER switch is turned OFF automatically.

Note; Make sure that nothing is connected to either of the MIC jacks. If an external microphone is connected to either of the MIC jacks, the Built-in Microphone of that side will be disconnected.

To prevent accidental erasure: When the recorder is operated in the record mode, previous recordings are automatically erased. For this reason cassettes incorporate a convenient safety device to prevent accidental erasure.

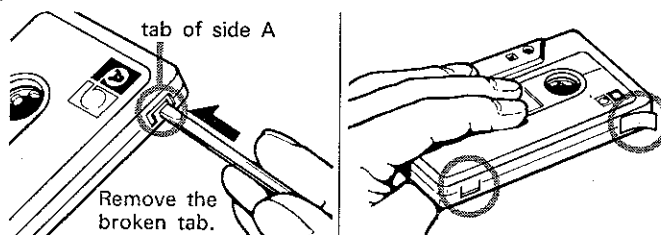
When the small tabs at the rear of a cassette are broken out and the cassette is inserted, an interlock on the recorder will be activated, preventing recording, and the RECORD button cannot be depressed.

To protect side A recording, break out the tab of that side.

For the protection of side B, break out the tab of side B.

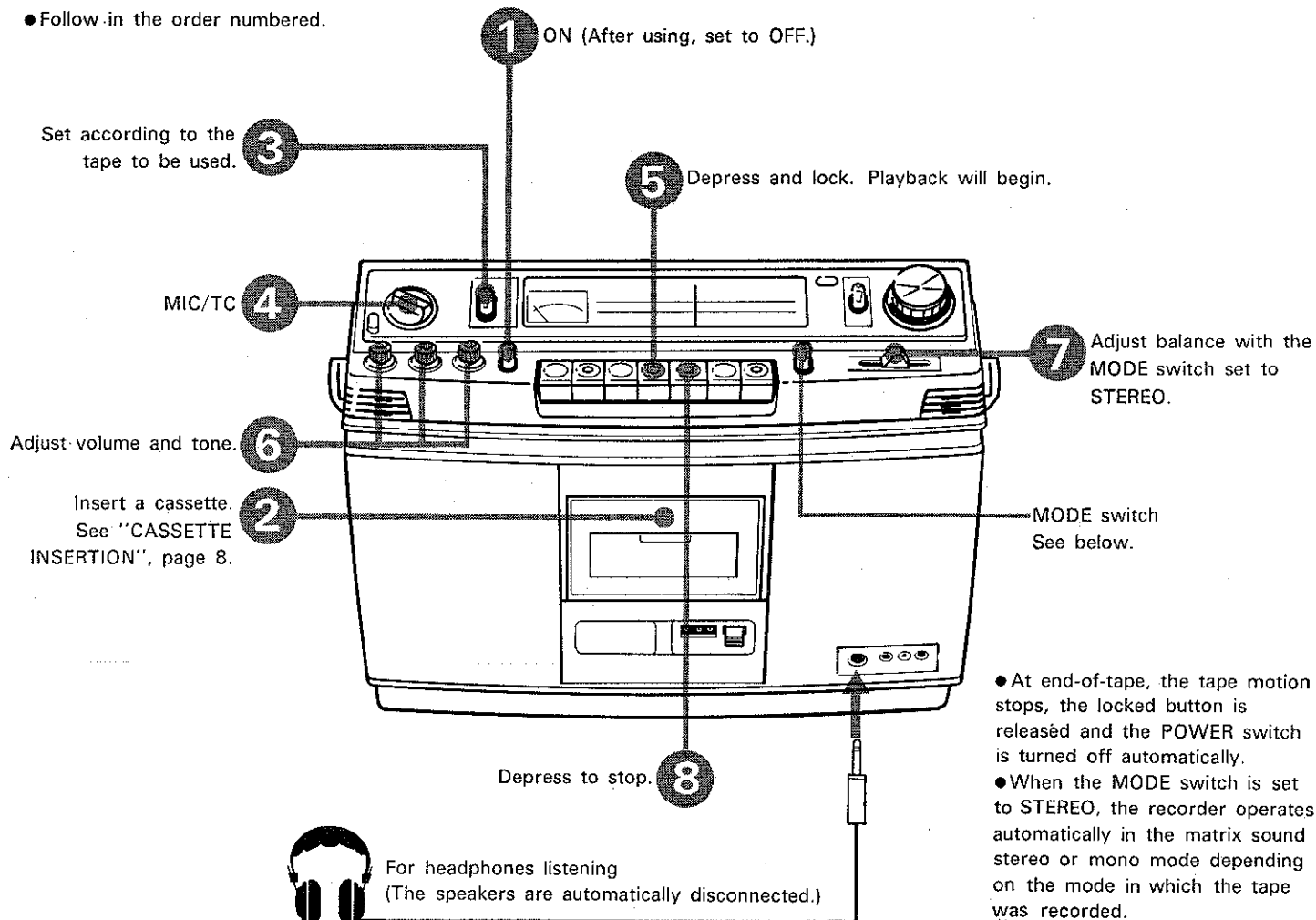
To reuse a cassette for recording after the tabs have been removed, simply cover each slot with a small piece of cellophane or vinyl tape.

● Do not stick any material on any part of the cassette except the portion shown circled.



PLAYBACK

- Follow in the order numbered.



All-mode shut-off mechanism: At end-of-tape, the tape motion stops in any operating mode, the locked button will be released and the POWER switch will be turned OFF automatically.

This protects the tapes and prevents undue battery wear. The mechanism activates after about 5 - 20 seconds at end-of-tape.

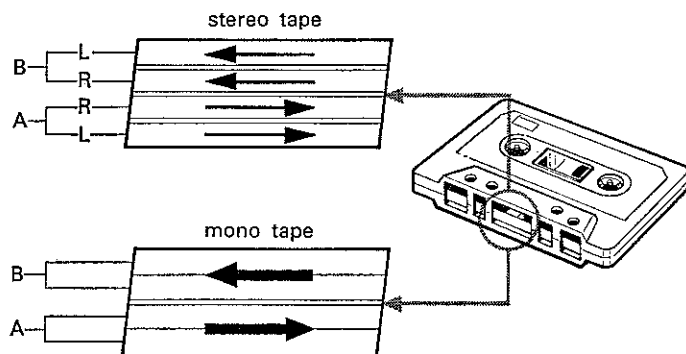
● This mechanism may be used as a "sleep-timer" to shut off either the recorder or radio automatically for bedtime listening.

To fall asleep while listening to the radio, turn on the POWER switch, set the FUNCTION switch to FM or AM as required and set the recorder in playback mode. The elapsed time will be determined by the length of the cassette used; i.e. with the C-30, approx. 15 minutes, with the C-60, approx. 30 minutes, with the C-90, approx. 45 minutes, and with the C-120, approx. 60 minutes.

Cassette format

The cassette permits 4-track stereo and 2-track mono recording and playback. The total track width of the left and right channels of a stereo tape is equal to a single track of a mono cassette. Refer to the illustration.

When a cassette recorded on a stereo recorder is played back on a mono recorder, the playback head will play both channels together. When a cassette recorded on a mono recorder is played back on a stereo recorder, the mono track will be played back on the left and right channels simultaneously. This system is standard for all cassette recorders.



RECORDING FROM VARIOUS SOUND SOURCES

Various sound sources can be connected to the proper recorder jacks on the rear by using an appropriate optional connecting cord. For recording from external microphones, use the MIC jacks on the front. Before proceeding with the recording, check the following points and illustrations.

Notes on connection

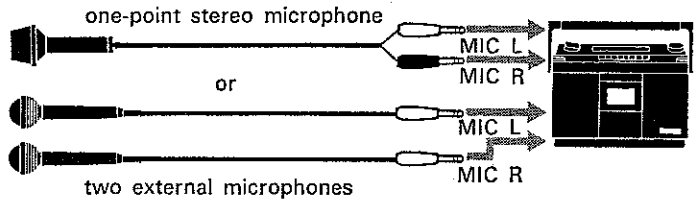
- Turn off the CF-580 while making connections.
- Insert the cable connector completely into the jacks. Loose connections may cause hum and noise.
- The red plug of the connecting cord should be connected to the right channel and the gray plug to the left channel.
- When interconnecting electronic equipment with the CF-580, there are certain conditions that should be observed. In general, the output impedance of a signal source should be much lower than the input impedance of the device to be connected to the signal source. The output level of a signal source should be equal to or slightly higher than the rated sensitivity of the other device. These specifications, both for Sony and other makes of equipment may be found in the instruction manual of the particular piece of equipment.

Other notes

- When recording from the LINE IN jacks or PHONO jacks, the sound to be recorded can be heard through the built-in speakers or the headphones. When recording from the MIC jacks, the sound to be recorded can be heard through the headphones.
- The position of the MODE switch has no effect on the recording mode. Stereo or mono mode in recording is established by the source to be recorded. However, the position of the switch determines the mode of the sound through the built-in speakers or the headphones during recording.
- This recorder can be used as an amplifier for external inputs. Connect a magnetic cartridge record player to the PHONO jacks, or a tape recorder or TV to the LINE IN jacks and set the FUNCTION switch to the appropriate position.

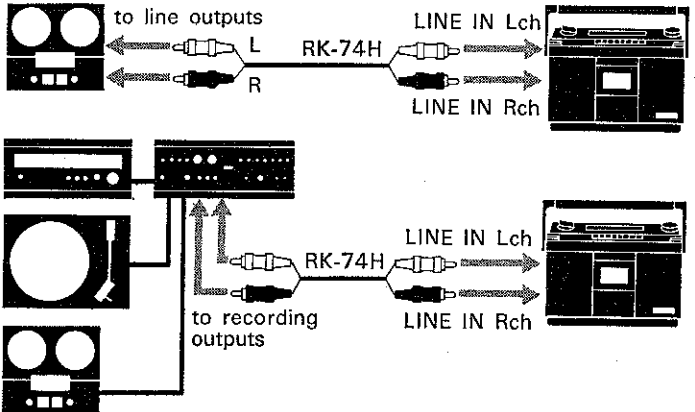
STEREO RECORDING AND PLAYBACK

stereo recording with external microphones:

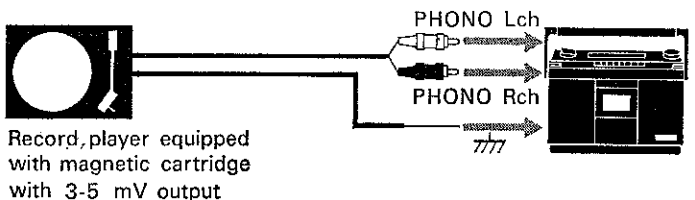


- Set the FUNCTION switch of the CF-580 to MIC/TC.
- Set the CF-580 in record mode.
- When both the MIC jacks are used, the Built-in Microphones are automatically disconnected. When either of the MIC jacks is used, the Built-in Microphone of the opposite side is not disconnected.
- The left MIC jack [L] and REMOTE jack are flexibly mounted in order to allow easier insertion of the plug.
- The dual-pin plug microphone provides a remote tape stop/start facility.

Recording from various stereo sound sources:

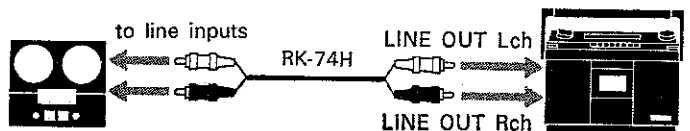


- Set the FUNCTION switch of the CF-580 to LINE IN.
- Set the CF-580 in record mode.



- Set the FUNCTION switch of the CF-580 to PHONO.
- Set the CF-580 in record mode.

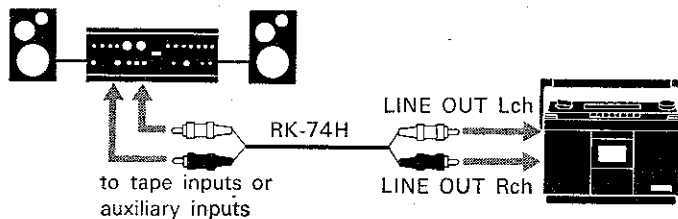
Recording onto a stereo tape recorder:



- For recording from the built-in radio, set the FUNCTION switch of the CF-580 to FM or AM.
- For duplicating to another tape recorder, set the FUNCTION switch to MIC/TC.

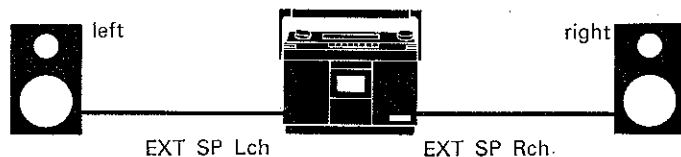
ERASING WITHOUT RECORDING

Listening to the sound of the CF-580 through an amplifier:



- Set the FUNCTION switch of the CF-580 to FM or AM for listening radio programs.
- Set the FUNCTION switch to MIC/TC for listening to tape sound.

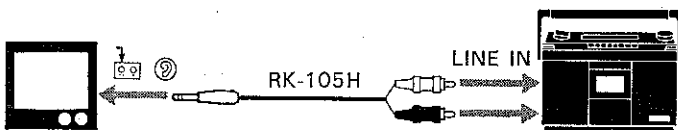
Listening through external speakers:



- When external speakers are connected, the built-in speakers are automatically disconnected.
- Make sure that the headphones is disconnected from the CF-580.

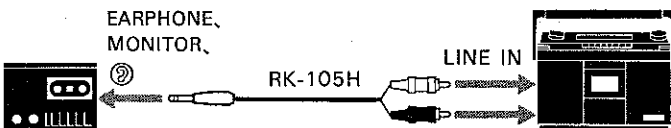
MONAURAL RECORDING

Recording from a TV equipped with an earphone jack:



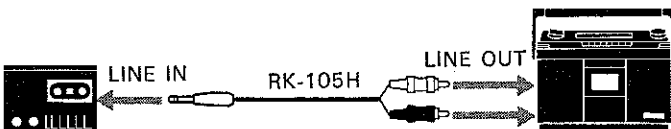
- Tune in the desired TV program and adjust it to a normal listening level.
- Set the FUNCTION switch of the CF-580 to LINE IN.
- Set the CF-580 in record mode.

Duplicating from another tape recorder:

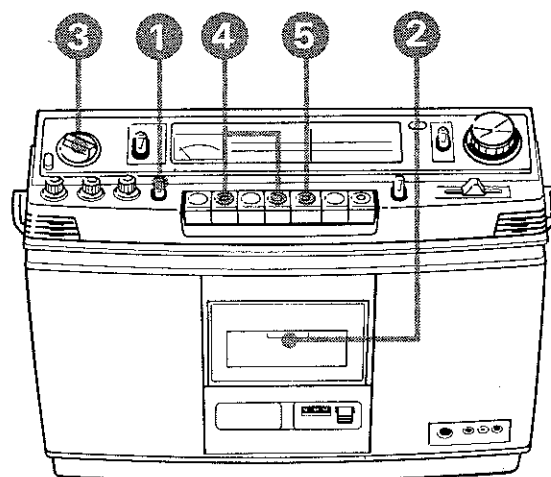


- Set another tape recorder in playback mode and adjust it to a normal listening level.
- Set the FUNCTION switch of the CF-580 to LINE IN.
- Set the CF-580 in record mode.

Duplicating to another tape recorder:



- Set the FUNCTION switch of the CF-580 to MIC/TC.
- Set the CF-580 in playback mode.
- Set the another tape recorder in record mode.



A cassette can be erased without adding a new recording as follows:

- 1 Set the POWER switch to ON.
- 2 Insert the cassette with the side to be erased toward you. If the tab on the cassette is removed, cover the slot.
- 3 Set the FUNCTION switch to LINE IN.
- 4 Make sure that nothing is connected to the LINE IN jacks on the rear.
- 5 While depressing the RECORD button, depress the ◀ button. Lock the two buttons in place. Erasing now begins.
- 6 When erasure is completed, depress the ■ button.

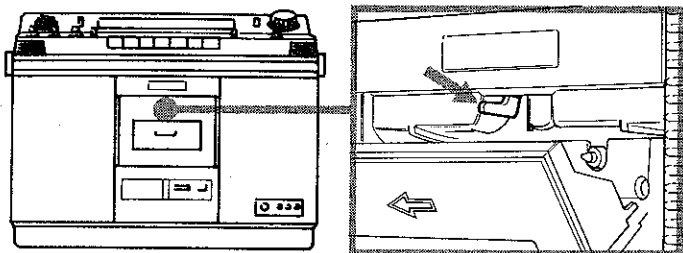
MAINTENANCE

Cleaning the heads

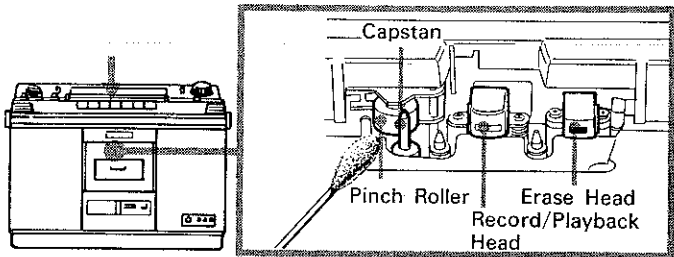
Keeping the tape heads in a clean condition is essential to the proper operation of the recorder. Accumulations of dust and tape oxides on the heads will result in sound drop-outs, a loss of high frequencies and excessive tape wear.

To clean the heads

- ① Depress the EJECT button to open the Cassette Holder. Remove the cassette, if present.
- ② Set the POWER switch to ON.
- ③ Keep the lever indicated in the illustration pushed, and you can depress the ◀ button for easier access.

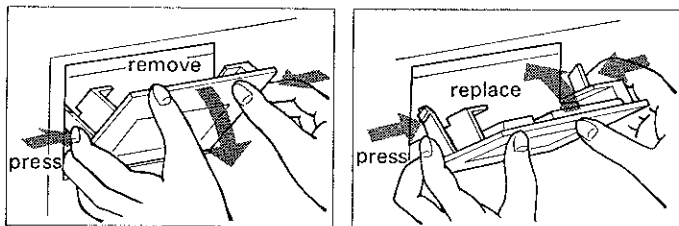


- ④ Moisten the Head Cleaning Tip (supplied) or a soft cloth with denatured alcohol, and gently wipe the heads, Capstan, and Pinch Roller over which the tape travels.



- Avoid catching the cotton between the Pinch Roller and Capstan. Using the PAUSE button is recommended.
- ⑤ Depress the ■ button to release the ◀ button.
- ⑥ Set the POWER switch to OFF.
- Do not insert a cassette if the heads are protruding, first depress the ■ button.
- Do not insert a cassette before the alcohol has dried completely.

Removing the Cassette Holder will be helpful for easier cleaning. Remove and replace the holder as illustrated.



Demagnetizing the head

Accidental contact with a piece of magnetized steel (screwdriver, scissors, etc.) will magnetize the Record/Playback Head causing an increase in tape noise. In such an event, demagnetize the heads using a commercially available head demagnetizer.

- When demagnetizing, remove the batteries and disconnect the ac power cord.

Cleaning the cabinet

Clean the cabinet with a soft cloth moistened with water or a mild detergent solution. Do not use solvents such as alcohol, benzine, or thinner as they may mar the finish of the cabinet.

SPECIFICATIONS

Radio Section

Frequency range	FM 87.5 – 108 MHz AM 530 – 1,605 kHz
Antennas	FM: Telescopic antenna AM: Built-in ferrite bar antenna

Tape recorder section

Recording system	4-track; 2-channel stereo or monaural
Fast winding time	Approx. 1 min. 30 sec. with Sony Cassette C-60
Frequency response	40 – 10,000 Hz (with standard cassette, with the TAPE SELECT switch set to NORMAL) 40 – 13,000 Hz (with chromium dioxide cassette with the TAPE SELECT switch set to CrO ₂ , or with a Sony Ferri-Chrome cassette with the TAPE SELECT switch set to Fe-Cr)
S/N ratio	45 dB
Total Harmonic Distortion	2.5%
Wow and flutter	0.19% (WRMS)

General

Power requirements	120 V ac, 60 Hz 12 V dc, eight batteries size "D" (IEC Designation R20), or 12 V car battery with Sony Car Battery Cord DCC-9
Power consumption	12 W ac
Power output	2 W (1 W × 2) max.
Speakers	two 8 × 12 cm (3 × 5 inches) two 10 × 15 cm (4 × 6 inches)
Inputs	Microphone input jack.....2 (minijack) sensitivity 0.2 mV (–72 dB) for low impedance microphone Line input jack.....2 (phono jacks) sensitivity 0.14 V (–15 dB) input impedance 100 kilohms PHONO input jack.....2 (phono jack) sensitivity 1.5 mV (–54 dB) input impedance 47 kilohms
Outputs	Line output jack.....2 (phono jack) rated output 0.44 V (–5 dB) at load impedance 100 kilohms, load impedance 10 kilohms or higher External speaker jack.....2 (minijack) for 4- or 8-ohm impedance speakers Headphones jack.....1 (stereo binaural jack) for 8-ohm impedance headphones
Other jack	Remote control jack.....1
Battery life	Approx. 14 hours of continuous recording from the Built-in Microphones with Eveready Heavy Duty Batteries No. 1250
Dimensions	Approx. 390 × 303 × 143 mm (W/H/D) (15 3/8 × 12 × 5 5/8 inches) incl. projecting parts and controls not incl. handle
Weight	Approx. 7.9 kg (17 lb 7 oz) incl. batteries
Accessories supplied	Demonstration Tape Cassette Power Cord Head Cleaning Tip (1 set)

Design and specifications subject to change without notice.

OPTIONAL ACCESSORIES

Car Battery Cord DCC-9
One Point Stereo Microphone ECM-99 F-99B
Electret Condenser Microphone ECM-250D
Dynamic Microphone F-500S
Connecting Cord RK-74H, RK-105H
Remote Control RM-15
Stereo Handphones DR-7, DR-35, DR-45
Foot Switch FS-6

Continued trouble-free operation of any tape recorder is dependent on the quality of the cassettes used in conjunction with it. The use of Sony cassettes is recommended for high quality recording and trouble-free operation.

TROUBLESHOOTING GUIDE

Should any problem occur with the set, make the following simple tests to determine whether or not servicing is required.

If the problem persists after you have made these tests, consult the nearest Sony Service Station authorized to service tape recorders (in U.S.A.) or the nearest Sony of Canada Factory Service Station (in Canada).

The set does not operate when the POWER switch is set to ON.

- The power cord is not connected (on ac operation).
- Incorrect polarity of batteries.
- Weak batteries.
- Battery operation is attempted while the ac power cord or car battery cord is connected to the recorder but not to the wall outlet or cigarette lighter socket.

Cassette cannot be inserted.

- Cassette is being inserted improperly. See page 8.
- The ◀ button is depressed.

The RECORD, ◀◀, ◀ or ▶▶ button cannot be locked.

- The POWER switch is set to OFF.

The RECORD button cannot be depressed.

- No cassette in the Cassette Holder.
- The cassette in the Cassette Holder has had the tabs removed. See page 9.
- The ◀ button is depressed.

The locked button returns and the POWER switch turns off automatically.

- The tape is wound completely.

The EJECT button cannot be depressed.

- The RECORD, ◀◀, ◀ or ▶▶ button is depressed.

Tape does not move when the ◀ button is locked.

- The PAUSE button is locked.
- An external microphone is connected with the remote switch set to OFF.

No sound from the built-in speakers or external speakers.

- The headphones is plugged in.
- The VOLUME control is turned down completely.
- Improper setting of the FUNCTION switch.

Weak or distorted sound.

- Weak batteries.

Sound drop-outs or excessive noise.

- Dirty heads. See page 13.
- Magnetized head. See page 13.

Increase in high frequencies.

- Incorrect setting of the TAPE SELECT switch while recording.
→ Adjust the tone quality for playback.

Tape speed is too slow.

- Weak batteries.

Recording cannot be made or is unsatisfactory.

- Improper connection. See page 11.
- Improper setting of the FUNCTION switch.
- Weak batteries.
- Dirty Record/Playback Head.

Unsatisfactory erasing.

- Dirty Erase Head. See page 13.

