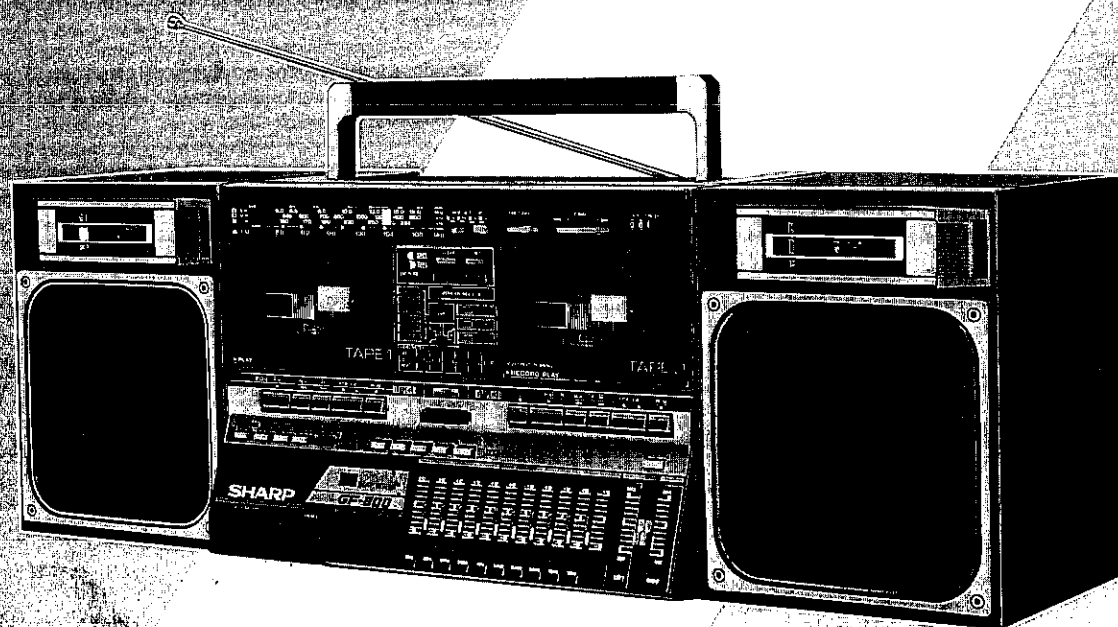


SHARP

TRAGBARES STEREO-KOMPONENTENSYSYSTEM
CHAÎNE PORTATIVE STÉRÉO
BÄRBART STEREO KOMPONENTSYSTEM
SISTEMA A COMPONENTI STEREO PORTATILE
PORTABLE STEREO COMPONENT SYSTEM

GF-800H



DEUTSCH

FRANÇAIS

SVENSKA

ITALIANO

ENGLISH

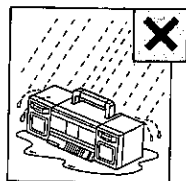
TINSZ0733AFZZ

BEDIENUNGSANLEITUNG
MODE D'EMPLOI
BRUKSANVISNING
MANUALE D'ISTRUZIONI
OPERATION MANUAL

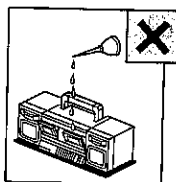
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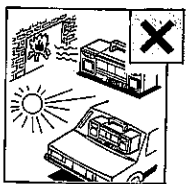
1 PRECAUTIONS



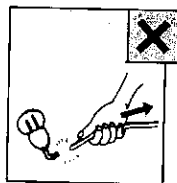
Do not expose the unit to rain or moisture, as this will result in damage to internal circuitry.



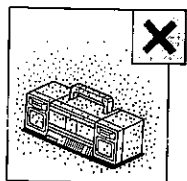
Do not apply oil to any part of the mechanical unit.



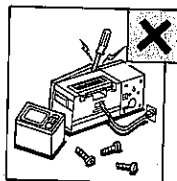
Do not expose the unit to temperature higher than 60°C (140°F). This includes leaving the unit inside closed vehicles, placing it in direct sunlight or in the vicinity of heaters, etc.



Be sure to hold the AC supply plug — NOT THE LEAD — when removing the plug from the AC outlet. Removing the plug by pulling the lead may result in damaged or broken connections.

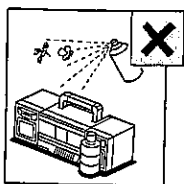


Do not locate or store the unit in humid or dusty places for a long time.



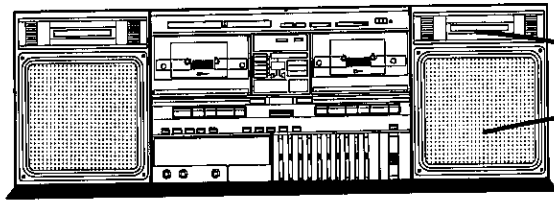
Remove the AC supply lead before servicing or cleaning heads, pinch rollers, etc.

Do not remove the unit's cover, as it may result in electric shock or malfunction. Refer all services and repairs to your local SHARP dealers.



Do not apply petroleum, any organic solvents, or insecticides to the cabinet surface, as this may result in cracking or other surface damage.

Do not use this unit with AC voltages other than those specified, as it may result in damage, fire, etc. SHARP may NOT be held responsible for damage resulting from using the unit with the voltage not specified.



Tweeter

Woofer

RADIO OPERATION

- FM/SW Telescopic Rod Aerial
- Band Selector: **BAND SELECTOR**
- Fine Tuning Control: **FINE TUNING**
- FM Stereo Indicator: **FM STEREO**
- Tuning Control: **TUNING**
- FM Mode Switch: **FM MODE**

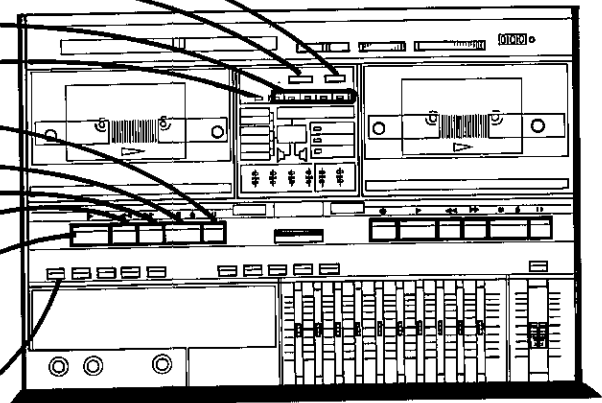
Level Meter: **LEVEL METER**Power Indicator: **POWER**Function Selector Buttons: **FUNCTION**

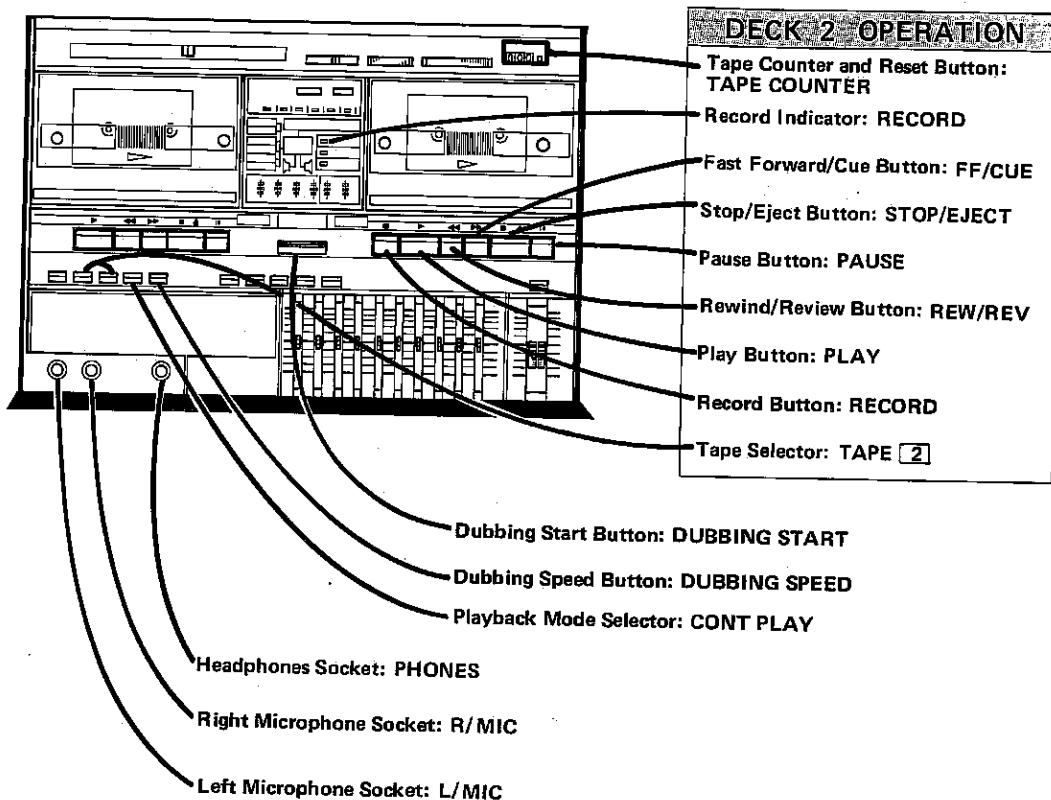
- Do not press more than two **FUNCTION** buttons at once.

Dolby NR Indicator: **DOLBY NR**Dolby NR Switch: **DOLBY NR**Power Switch: **POWER**Right Channel Volume Control: **RIGHT/VOLUME**Left Channel Volume Control: **LEFT/VOLUME**Graphic Equalizer Controls: **GRAPHIC EQUALIZER**

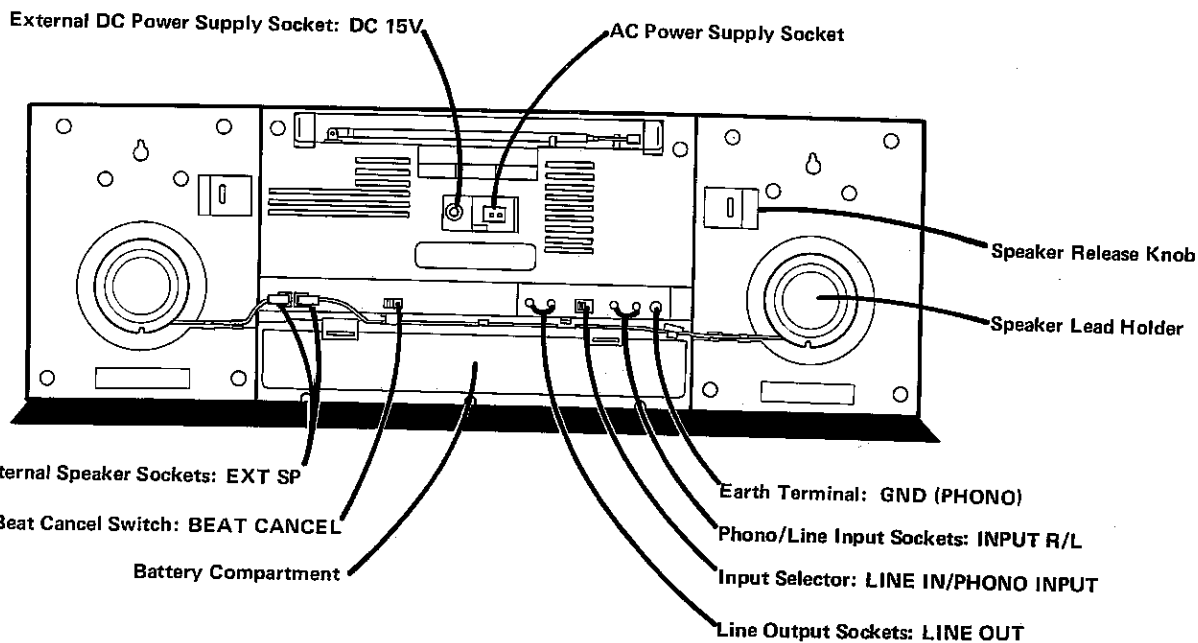
DECK 1 OPERATION

- APLD/APPS Set Button: **SET**
- APLD/APPS Clear Button: **CLEAR**
- APLD/APPS Programme Set Indicators
- APPS End-Pause Indicator: **END PAUSE**
- Pause Button: **PAUSE**
- Stop/Eject Button: **STOP/EJECT**
- Fast Forward/Forward AP LD Button: **FF**
- Rewind/Reverse AP LD Button: **REW**
- Play Button: **PLAY**
- Tape Selector: **TAPE 1**

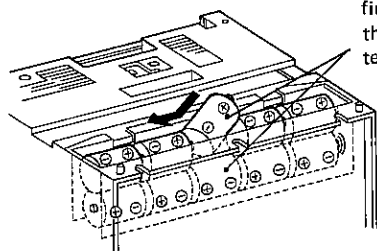
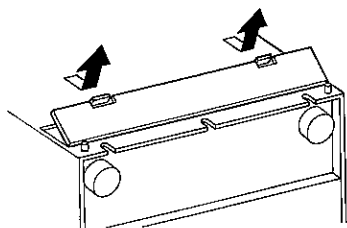




REAR PANEL



BATTERY OPERATION



Insert these batteries finally by pushing them toward the (-) terminal.

Placing Batteries

- Set the POWER switch to the  position.

1 Lay the unit face down on a soft cloth so as not to damage the unit. Then, remove the battery compartment cover.

2 Place ten new batteries (1.5V cell x 10) — UM/SUM-1 or R20 type — into the compartment.

Replace the battery compartment cover.

Battery Operation

The unit is automatically changed to battery operation if the AC power supply lead or car battery adaptor is disconnected from the unit.

- When batteries become weak, recording sometimes becomes impossible, even though radio broadcasts may be audibly received. Batteries should be replaced at once.

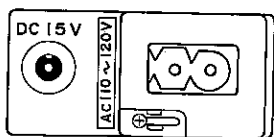
- Be sure to keep battery contact parts clean. Dust accumulations between batteries and battery terminals may result in imperfect contacts, and may even prevent the unit from operating.

Precautions for Battery Use

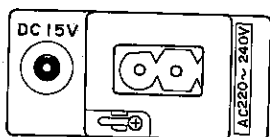
Improper use of batteries may cause leakage or explosion. Therefore, observe the following precautions:

- (1) Correctly insert batteries with their polarity as indicated on the unit.
- (2) Avoid using new batteries and old ones together — when one battery needs to be replaced, change others at the same time.
- (3) Do not use batteries of different kinds together. Batteries of the same size may differ in voltage.
- (4) Remove all the batteries from the unit when they are weak or when not in use for extended period of time.
- (5) Batteries are available in two types: rechargeable and non-rechargeable. Before use, carefully read the cautions on the battery.

AC OPERATION



AC 110 – 120V



AC 220 – 240V

AC SUPPLY VOLTAGE SELECTOR

Check the setting of the voltage selector before connecting the AC supply plug to an AC outlet. If necessary, change the setting as follows:

- 1 Loosen the screw of the supply voltage selector.
- 2 Slide the panel right or left, until the correct voltage reading is seen on either side. Secure the screw.

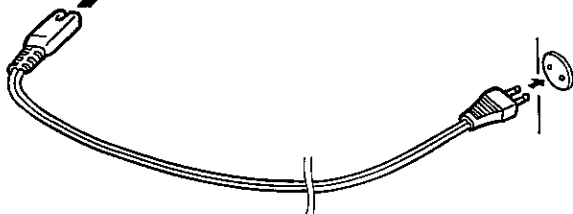
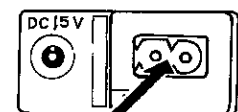
CONNECTION TO THE AC OUTLET

Connect the AC supply lead to the AC supply socket of the unit. Then, connect the AC supply plug to an AC outlet. Supply is either 110V – 120V or 220V – 240V.

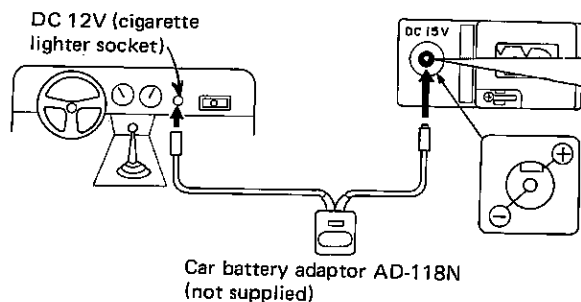
- Inserting the AC supply lead into the unit automatically disconnects the batteries.
- An AC power supply should be used whenever possible in order to conserve battery power.
- Remove the batteries when using the AC power for a long time.

Warning

Always remove mains plug from wall socket when not in use, or before any service operation. Never remove covers unless qualified to do so; this unit contains dangerous voltages.



CAR BATTERY OPERATION




The centre pin is a negative polarity. Use the specified car battery adaptor because polarity is different in manufacturers.

Use car battery adaptor AD-118N (not supplied), for 12V car battery. Connection of the adaptor to the DC 15V input on the rear panel of the unit and cigarette lighter socket of the car will cut out the internal batteries.

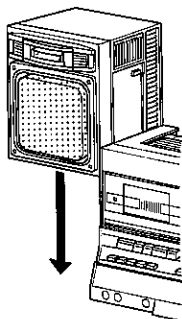
4

SPEAKER BOX

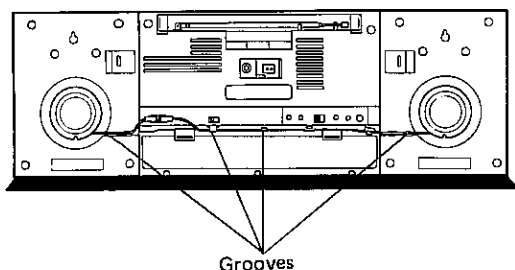
●Set the POWER switch to the  position before connecting speakers.

HOW TO INSTALL SPEAKERS TO THE UNIT

- 1 Align the grooves of the speaker box to the protruding portion of the main body.
- 2 Lower the speaker box until it becomes the same height to the main body.

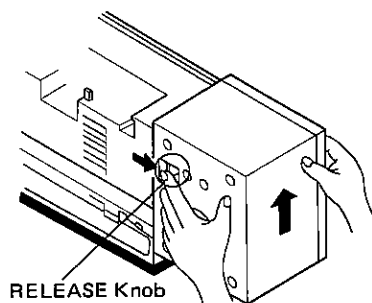


- 3 Open out the two speaker leads in order to reach the EXT SP sockets. And connect the plugs to the EXT SP sockets. Put the speaker leads into the grooves in the speaker box and main unit as shown in illustration.

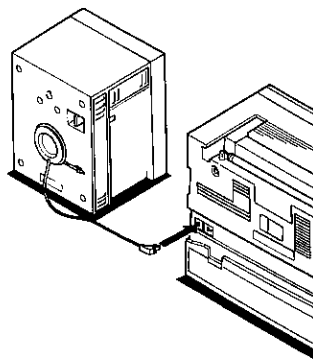


HOW TO USE SPEAKERS SEPARATELY

- 1 Disconnect the plugs from the EXT SP sockets at the rear of the unit.
- 2 To unlock the speaker, slide the RELEASE knob at the rear of the speaker box in the direction as shown in illustration, and then lift the box to remove it from the main body while holding the RELEASE knob.



- 3 After extending the desired length of the speaker leads, connect the plugs to the EXT SP sockets.



CORRELATION BETWEEN SPEAKERS AND UNIT

● The speakers' maximum input power is 26W.
Do not connect the speakers to an amplifier with a maximum output power of more than 26W, as this may damage the speakers.

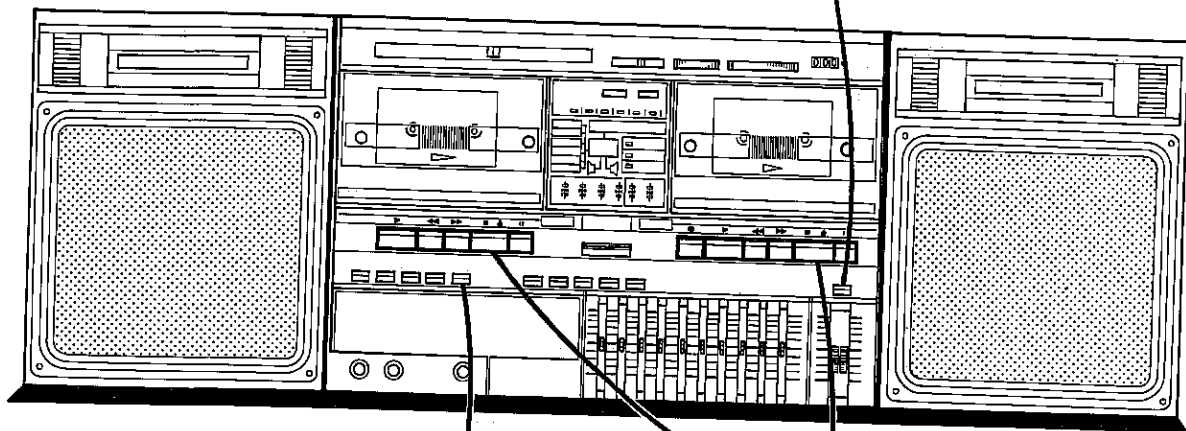
● Connecting speakers with less than 8 ohms impedance to the unit may damage the electric circuitry in the amplifier section of the unit.

Caution

Do not short-circuit the EXT SP (External Speaker) outputs or leads, positive and negative polarities at both right and/or left speakers, since it may damage the audio output circuit of the amplifier.

●POWER SWITCH

Before starting any function such as decks and radio, set the POWER switch to the ON position. If the deck is in operation, turn the POWER switch to \odot position after stopping tape transport by pressing the $\blacksquare/\blacktriangle$ STOP/EJECT button.



●DUBBING SPEED SWITCH

Set this switch to the NORMAL position, except when using the high speed dubbing function. If you set it to the HIGH position when a tape is played back, the equalizer circuit for high speed operation will be actuated and the high range of the tape will be reduced.

●HOW TO STOP THE TAPE

To stop the tape when the unit is in the recording, playback, fast forward, rewind or APLD mode, press the $\blacksquare/\blacktriangle$ STOP/EJECT button.

FULL AUTO STOP SYSTEM

When the tape is reached to the end while the unit is in the recording, playback, fast forward, rewind mode, the full auto stop system is activated, and it automatically set the deck to the stop mode.

- The auto-stop system may not be functioned when the unit is battery powered and the batteries are weak.

MECHANICAL NOTES

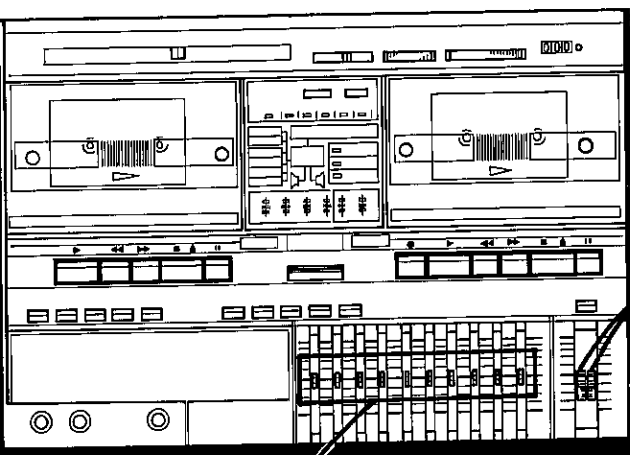
NOTE FOR SOFT-TOUCH MECHANISM

When the batteries are too weak, the unit will not function by pressing the \blacktriangleright PLAY button or \bullet REC button, and then the \blacktriangleright PLAY button or \bullet REC button can not be returned completely by pressing the $\blacksquare/\blacktriangle$ STOP/EJECT button. In that case, change the batteries or use an AC supply lead without opening the cassette compartment.

MODE SELECTION

Before changing from one mode to another while the unit is in operation for recording, playback, fast forward or rewind mode, press the $\blacksquare/\blacktriangle$ STOP/EJECT button.

For the APLD operation, it is not necessary to press the $\blacksquare/\blacktriangle$ STOP/EJECT button in advance : to set it press the $\blacktriangleright\blacktriangleright$ FF or $\blacktriangleleft\blacktriangleleft$ REW button.



● VOLUME CONTROLS

To control output sound level, use the **LEFT VOLUME** control for left channel level and **RIGHT VOLUME** control for right channel level.

LOUDNESS CIRCUIT

When listening to the radio or a tape at low volume settings, the built-in loudness circuit is automatically activated to compensate for tone deficiencies.

● GRAPHIC EQUALIZER CONTROLS

100Hz

To emphasize or diminish low pitch sound like that of electric base, pipe organ or bass drum.

180Hz

To emphasize or diminish middle low pitch sound like that of slide trombone.

310Hz

To emphasize or diminish upper low pitch sound like that of violoncello or bass voice.

550Hz

To emphasize or diminish middle pitch sound which expresses volume of the music and sound like that of male vocals.

1 kHz

To emphasize or diminish upper middle pitch sound like that of piano, brass instruments or female vocals.

1.8 kHz

To emphasize or diminish lower high pitch sound like that of percussion instruments or trumpets.

3.1 kHz

To emphasize or diminish middle high pitch sound like that of string instruments.

5.5 kHz

To emphasize or diminish high pitch sound like that of high range of string instruments.

10 kHz

To emphasize or diminish upper high pitch sound like that of cymbals or triangles.

16 kHz

To emphasize or diminish highest pitch sound like that of highest part of pipe organ.

- If the sound is too bright, set 1.8 kHz and 3.1 kHz controls downward. Then, it become less bright and comfortable to listen to.

- To reduce tape hysteresis noise, set 10 kHz and 16 kHz controls downward accordingly.

- By setting all **GRAPHIC EQUALIZER** controls to the center position, ("0" position) the frequency response become flat.

- Set a control of a specific range upward (toward +10 position) to emphasize the sound in the particular range, or set it downward (toward -10 position) to diminish the sound.

Refer to the instructions on page 7.

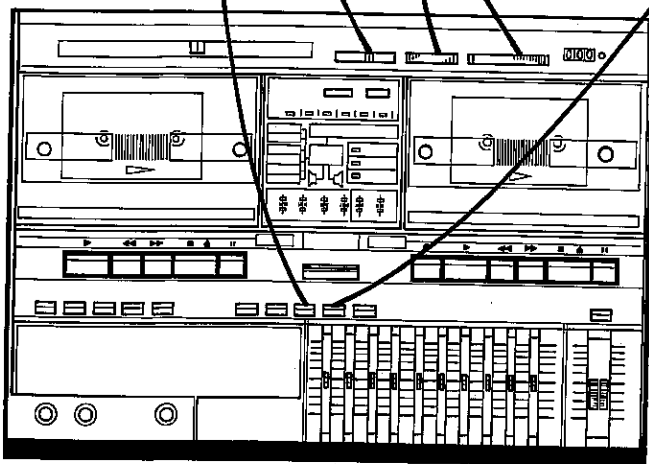
1 Press the RADIO button of the FUNCTION selector.

2 Slide the BAND selector to the FM, LW, MW or SW position.

3 Rotate the TUNING control until the desired broadcast is received. The FINE TUNING control functions only for SW band.

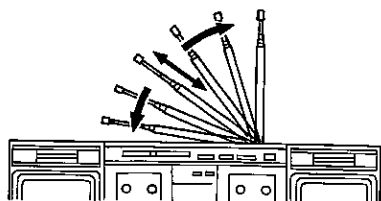
4 With the BAND selector in the FM position, set the FM MODE switch to the STEREO position. Even with the FM MODE switch in STEREO position, mono broadcasts can be received if the station is not transmitting a stereo programme at that time. If stereo reception is unsatisfactory, set the FM MODE switch to the MONO position.

• Adjust volume and sound quality (refer to instructions on page 8).



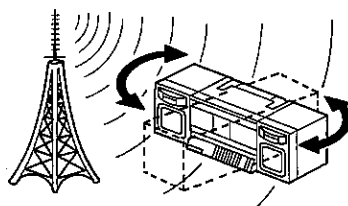
ADJUSTING THE AERIAL

Adjust the aerial appropriately to obtain the best reception on the band selected.



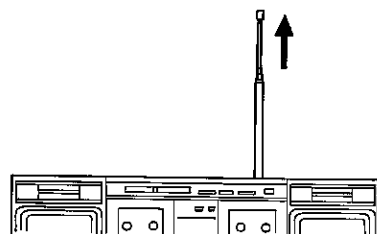
FM BROADCASTS

Raise and extend the telescopic rod aerial. Adjust the position and length of the aerial until FM broadcast reception signal is at peak strength.



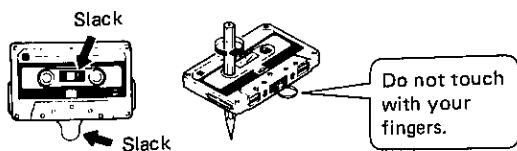
MW or LW BROADCASTS

Turn or locate the unit to receive peak signal strength of the MW or LW broadcast.



SW BROADCASTS

Raise and extend the telescopic rod aerial vertically to its full length.



TAPE SLACK

Tighten any loose tape with a pencil or ball-point pen before inserting the cassette into the unit, as shown at the left figure.

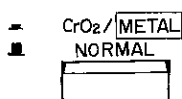
LOADING

- 1 Press the $\blacksquare/\blacktriangle$ STOP/EJECT button of Deck 1 or Deck 2 respectively.
- 2 Load a cassette tape into the compartment so that the title of the tape to be used is facing outwards. Close the compartment lid.

SETTING OF TAPE SELECTORS

The unit is furnished with independent tape selector switches for Deck 1 and Deck 2 (TAPE [1]/TAPE [2]), respectively. According to the deck to be used, the designated switch should be set to the proper position before beginning playback or recording, in order to match the bias and equalization circuits with the cassette tape being used.

TAPE [1]



TAPE [2]



- Refer to the following chart, and set the switch to the appropriate settings.

Type of tape	TAPE [1]: Tape Selector	TAPE [2]: Tape Selector	
		Playback	Recording
Normal (low noise) tape	NORMAL	NORMAL	NORMAL
Chrome tape	CrO ₂ / METAL	CrO ₂	CrO ₂
Ferri-Chrome tape	CrO ₂ / METAL	CrO ₂	NORMAL
Metal tape	CrO ₂ / METAL	METAL	METAL

The unit has been adjusted to match the following cassette tapes.

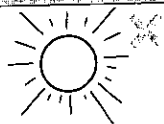
- Normal and low-noise tapes . . . Sharp SD, Maxell UD
- Metal tape . . . Sharp MX, Maxell MX

Cassette Tape Selection

- Use only well-known brands of tape.
- Use of C-120 (120 minutes) cassettes is not recommended. The extreme thinness of this tape may result in breakage or other problems.

- Stretched tapes will run at uneven speed and will distort anything recorded on them.

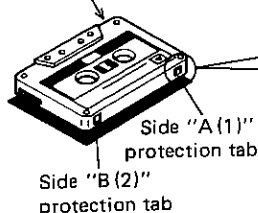
NOTES FOR STORING CASSETTE TAPES



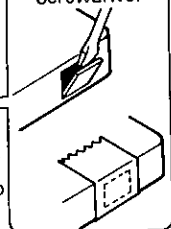
- Do not leave cassettes near the objects with strong magnetic field, such as radio, TV sets or loudspeakers. Strong magnetic field may reduce the tape sensitivity or even damage the recordings.
- Do not store cassettes for extended period of time in hot, moist or dusty places.

PROTECTING CASSETTE TAPE AGAINST ERASURE

Cassette tape with "A(1)" uppermost.



Screwdriver



All cassette tapes are provided with tabs which, when in place, allow tape erasure. If the tab (A or B/1 or 2) is removed, the tape on that side cannot be recorded or erased. (The \bullet RECORD button will not function.)

The tape can be re-recorded or erased by covering the tab holes with tape.

- When playing a tape, set the DUBBING SPEED selector switch to the NORMAL position. At the HIGH position, the DOLBY NR system does not function.

Load a pre-recorded cassette into the cassette compartment of Deck 1 and/or Deck 2 and set the tape selector switches (refer to instructions on page 10).

Refer to the instructions on page 7.

1 Press the TAPE button of the FUNCTION selector.

2 If the tape has been recorded with the DOLBY NR system, set the DOLBY NR switch to the ON position (The DOLBY NR indicator illuminates); if not, the DOLBY NR switch should be set to the OFF position.

3 INDIVIDUAL PLAYBACK

Set the CONT PLAY switch to the **1** &/or **2** position. Press the ► PLAY button of Deck 1 or Deck 2 to begin playback.

SEQUENTIAL PLAYBACK

Sequential playback starts with Deck 1 first and then Deck 2, or vice versa can be performed.

Press the ► PLAY button of the Deck to be played first. Then, the first Deck will start.

Set the CONT PLAY switch to the **1** ⇄ **2** position.

Press the ► PLAY button of the Deck to be played finally.

(Playback of the Cassette Deck to be played finally will begin when the Cassette Deck played first has ended)

SIMULTANEOUS PLAYBACK

Set the CONT PLAY switch to the **1** &/or **2** position.

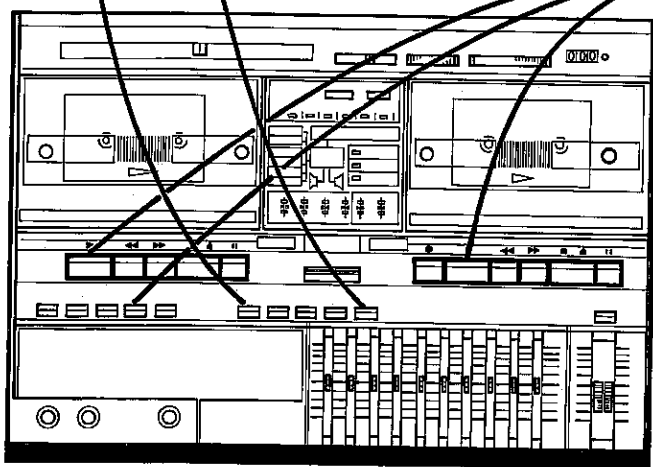
Press the ► PLAY buttons of Deck 1 and Deck 2 simultaneously.

The stereo audio reproduction from both cassettes will be mixed and reproduced concurrently from the speakers.

- Adjust volume and sound quality (refer to instructions on page 8.)

TO INTERRUPT PLAYBACK

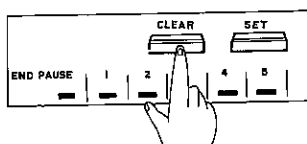
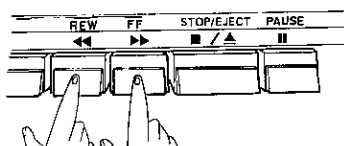
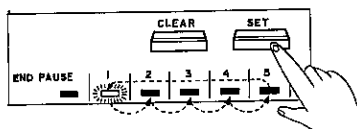
Press the II PAUSE button to discontinue playback temporarily. The tape will stop at the point where this button is pressed. The playback will be resumed from this point when the II PAUSE button is pressed again.



APLD (Auto Program Locate Device) and APPS (Auto Program Pause System)

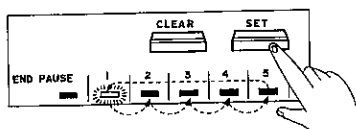
SHARP has solved one of the main drawbacks of cassette play in comparison with record play: That of finding the beginning or end of a selection. To eliminate the need for trial, error and delay, APLD was developed to automatically scan a tape for the blank space between recording, and to either start playback from the beginning of the recording following the space. By using the APPS, desired number of musics can be reproduced and then the unit is set to pause mode automatically. APLD/APPS is available only on Deck 1.

APLD OPERATION



- In order to change search direction of the APLD, press the $\blacksquare/\blacktriangle$ STOP/EJECT button first to stop tape transport and perform all steps for APLD operation again.

APPS OPERATION



- 1 Count the number of blank spaces (musical gaps) on the tape between the current tape position and the desired selection.
Enter that number into memory by pressing the SET button the same number of times. The corresponding APLD/APPS indicator will illuminate.
 - It is necessary to enter the APLD number only when wishing to skip more than one space on the tape.
 - When pressing the CLEAR button, the APLD/APPS indicator will extinguish.
- 2 If the deck 1 is not in the playback mode, press the \blacktriangleright PLAY button.
- 3 Press the $\blacktriangleright\blacktriangleright$ FF button if the blank space or spaces are searched forward. Press the $\blacktriangleleft\blacktriangleleft$ REW button if they are searched backward.
- 4 In order to discontinue APLD operation in progress, press the CLEAR button, and the deck will return to the playing mode
- 5 When Deck 1 reaches the desired space between selections, it will automatically release the $\blacktriangleright\blacktriangleright$ FF button or $\blacktriangleleft\blacktriangleleft$ REW button and start playback of the desired selection.

APLD Pause Control:

If it is desired to stop the tape at the beginning of the selection, press the $\blacksquare/\blacktriangle$ PAUSE button prior to performing the APLD operations.

- 1 Press the \blacktriangleright PLAY button of Deck 1 to start playback.
- 2 Count the number of selections to be played back, and enter that number into memory by pressing the SET button the same number of times.
 - As spaces are passed during playback, the indicator shows the number of selections remaining to be played.
 - Press the CLEAR button to release the APPS function, and start normal playback from the point.
- 3 When the last selection is reached to the end, the tape will stop automatically, and the END PAUSE indicator will illuminate. The \blacktriangleright PLAY button will not be released.
- 4 Release the END PAUSE function by pressing the CLEAR button. While the END PAUSE indicator illuminates, Deck 1 and Deck 2 will not function.
 - Other operation such as cassette tape ejection has to be done after the APPS is finished and when the unit is in the pause mode, the $\blacksquare/\blacktriangle$ STOP/EJECT buttons for the Deck 1 and 2 have to be pressed before the operation.

- The APLD/APPS can only accommodate numbers up to 5. To locate selection separated by more than 5 spaces, have the APLD/APPS locate the fifth space, then reactivate for the additional number of spaces necessary to reach the desired selection.

- You can change the APLD/APPS numbers while APLD/APPS is functioning.

Notes

For APLD

- When the APLD is functioning (searching for a programmed item forward or reverse), the speakers may emit a light high-pitched sound. This is not due to any malfunction of the unit.

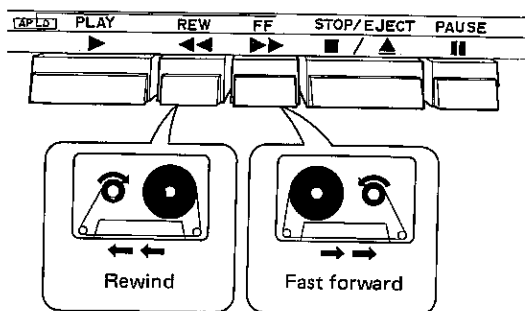
For APPS

- Do not allow the APPS function to remain engaged for extended period as it may damage the tape or pinch roller. When playback shall not be continued, press the $\blacksquare/\blacktriangle$ STOP/EJECT button, and also press the CLEAR button.
- At times of simultaneous playback, or dubbing from Deck 1 to Deck 2, if the APPS is activated, both decks will be stopped.
- When the music is gradually faded out, the APPS may be activated before the end of the music.
- When pressing the II PAUSE button or $\blacksquare/\blacktriangle$ STOP/EJECT button after setting the APPS music number, the number will decrease by one.
If only one music number is set, the END PAUSE indicator will illuminate. In this case, press the CLEAR button.

For both APLD and APPS

- If the APLD/APPS function is activated near the end of a selection, one programme may be skipped. Check by watching the APLD/APPS indicator as it is displayed.
- The APLD/APPS may not function perfectly at all times with tape containing the following characteristics:
 - The recorded signal on the tape is of an intermittent nature (speech, music with silent passages etc.).
 - The recorded signal on the tape contains soft classical music, solo performance, modern jazz, etc.
 - The recorded signal on the tape is of low strength.
 - The recorded programme items are separated by less than a three-second spaces (during which there occurs no signal).
 - The recorded programme items are separated by spaces which are not free of noise or stray signals.
- Avoid leaving the unit in the vicinity of powerful magnetic fields, such as those generated by TV sets, dynamos or other electrical appliances.

FAST FORWARD OR REWIND: DECK 1 AND DECK 2



- Press the $\blacksquare/\blacktriangle$ STOP/EJECT button if the deck is in a mode other than neutral.

Fast Forward

In order to rapidly advance the tape in the same direction as playback, press the $\blacktriangleright\blacktriangleright$ FF button.

Rewind

To rewind the tape in the opposite direction to playback, press the $\blacktriangleleft\blacktriangleleft$ REW button.

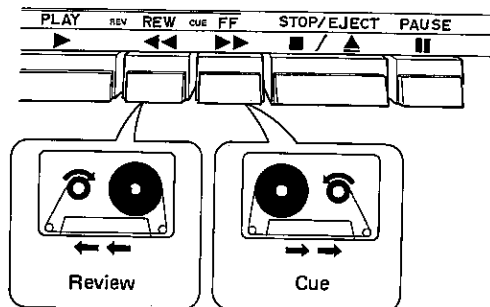
Auto Stop

- The unit automatically returns to the stop mode when the tape is reached to the end.

How to Stop Tape

- To stop the tape when the unit is in the fast forward or rewind mode, press the $\blacksquare/\blacktriangle$ STOP/EJECT button.

CUE AND REVIEW (SKIPPING): Possible only for Deck 2



- For fast forward winding or rewinding of short sections of the tape, the CUE and REVIEW functions may be used, accordingly.

CUE

During playback on Deck 2, press the $\blacktriangleright\blacktriangleright$ FF button to advance the tape in the same direction as playback.

REVIEW

During playback on Deck 2, press the $\blacktriangleleft\blacktriangleleft$ REW button to rewind short sections of the tape.

- Fast Winding will continue as long as the $\blacktriangleright\blacktriangleright$ FF button is pressed and playback will be resumed from the point where the button is released.

RECORDING FROM THE BUILT-IN RADIO

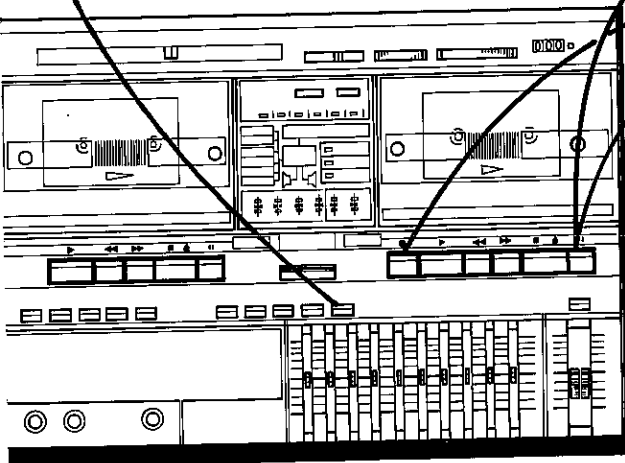
- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.

- The ALC (Automatic Record Level Control) circuit automatically controls the level of input signal strength used for recording.

Load a cassette into the Deck 2 cassette compartment (Make sure that the protection tabs are intact) and set the tape selector switches of Deck 2 to their proper position. Refer to the instruction on page 10.

- 1 Tune in to the desired station (refer to instructions on page 9.)

- 2 To suppress tape hiss, set the DOLBY NR switch to the ON position. The DOLBY NR indicator illuminates. If this circuit is not needed, set the DOLBY NR switch to the OFF position. Recordings made with the DOLBY NR circuit on must be reproduced with this circuit on for best results.



- 3 Press the II PAUSE button of Deck 2.

- 4 Press the • RECORD button. This will also engage the ► PLAY button.

- 5 Press the II PAUSE button again to release it and begin recording.

- The VOLUME and GRAPHIC EQUALIZER controls may be adjusted without effecting the recording level of the input signal.

TO PAUSE RECORDING

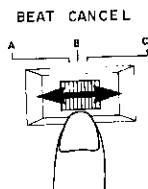
Press the II PAUSE button.

The tape will stop at this point. To resume recording from the same point, release the II PAUSE button by pressing it again.

AFTER USE

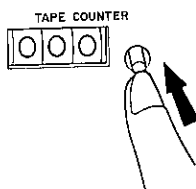
All buttons will be released automatically when the tape is reached to the end. However, radio reception will continue uninterrupted. If it is desired to turn the radio off at this time, set the POWER switch to the ⏻ position.

BEAT CANCEL SWITCH (on rear panel)



When LW, MW or SW radio reception is hampered by interference, set the BEAT CANCEL switch on the back of the unit to one of the following positions: A, B or C by which the interference will be reduced apparently.

DIGITAL TAPE COUNTER (function only with Deck 2)

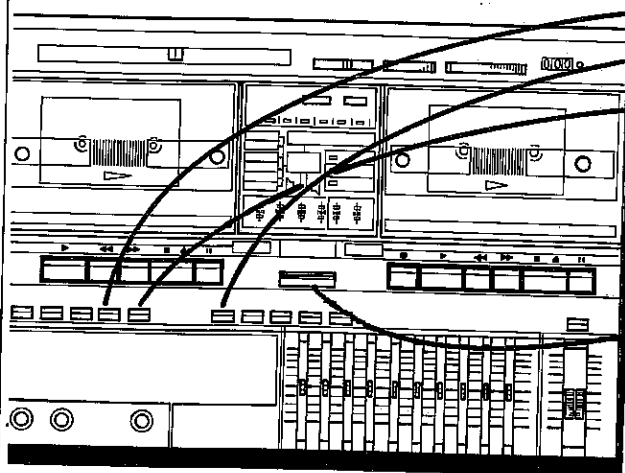


Press the reset button at the side of the counter to reset it to "000". The counter will advance while recording or playback, and it provides a useful reference during these operations.

DUBBING FROM DECK 1 TO DECK 2

• Normal speed dubbing as well as high-speed dubbing may be performed with this unit.

Load a pre-recorded cassette tape into the cassette compartment of Deck 1, and a cassette tape to be recorded into the cassette compartment of Deck 2 and set the TAPE selectors of Deck 1 and Deck 2 to their proper positions (refer to instructions on page 10).



• Do not connect any microphones to the MIC sockets.

1 Set the CONT PLAY switch to the **1** &/or **2** position.

2 Press the TAPE button of the FUNCTION selector.

3 Set the DUBBING SPEED selector to either the NORMAL or HIGH speed position. The NORMAL position permits to dub at the normal speed. The HIGH position permits to dub at twice the normal speed.

• Do not change the setting of the DUBBING SPEED selector during dubbing.

4 Press the DUBBING START button. The ►PLAY button of Deck 1, • RECORD button and ►PLAY button of Deck 2 are automatically pressed.

For rest of the operations, refer to the recording section on the previous page 14.

CONCERNING THE FUNCTION OF THE DOLBY NR CIRCUIT WHEN DUBBING IS PERFORMED

• Even if the DOLBY NR switch is set at ON position while the unit is in the dubbing mode (when the DUBBING SPEED switch is set at HIGH SPEED or NORMAL position), the DOLBY NR circuit does not function and the DOLBY NR indicator does not light up.

• Whichever position the DOLBY NR switch may be set during dubbing, it occurs that if a tape recorded with the DOLBY NR system ON is used in Deck 1, the tape in Deck 2 will be recorded with the DOLBY NR system ON, and a tape recorded with the DOLBY NR system OFF is used in Deck 1, the tape in Deck 2 is recorded with the DOLBY NR system OFF.

DUBBING WITH APLD AND APPS FUNCTIONS

Certain selected materials can be dubbed by using the APLD or APPS function to locate each desired selection.

1 Perform steps 1 – 3 of DUBBING FROM DECK 1 TO DECK 2 to prepare the unit for dubbing.

2 Locate the beginning of the desired selection by using the APLD (refer to page 12).

3 Set the desired number of selections to be dubbed with the SET button (refer to instructions for APPS OPERATION on page 12).

4 Press the DUBBING START button.

5 Upon conclusion of dubbing of the preset selections, the tapes on Deck 1 and Deck 2 will simultaneously stop and the END PAUSE indicator illuminates.

6 Press the ■/▲STOP/EJECT buttons of Deck 1 and 2.

7 To perform dubbing of subsequent selections, repeat Steps 1 – 6.

MAKING BLANK SPACES FOR APLD AND APPS

To operate the APLD/APPS correctly, there must be a space of at least 4-second duration between each item on the tape. In order to edit blank (non-signal space) on the tape, follow the instructions below.

- Check to ensure that Deck 1 is out of operation.

- 1 Press the II PAUSE button on Deck 2 at the end of recording.
- 2 Press the TAPE button of the FUNCTION selector.
- Remove the microphones from the MIC sockets when connected.

- 3 Press the II PAUSE button on Deck 2 to release the pause function, and run the tape for about 5 seconds.

- 4 Press the II PAUSE button on Deck 2 to stop the tape. The Space is now edited onto the cassette tape recording.

- 5 Press the desired button of the FUNCTION selector, and press the II PAUSE button to release it and begin recording of the next selection.

- Perform steps 1 — 4 to edit spaces between selections so that the tape may be used for future APLD/APPS operation.

ERASING RECORDED TAPES

Previously recorded materials will be erased automatically whenever new materials are re-recorded onto the tape. If it is desired to erase a previously recorded tape without recording over it, follow the instructions below.

- Check to ensure that Deck 1 is out of operation.
- Do not connect any microphones to the MIC sockets.

- 1 Load a tape to be erased into the cassette compartment of Deck 2.

- 2 Press the TAPE button of the FUNCTION selector.

- 3 Press the • RECORD button. This will automatically engage the ► PLAY button and begin erasing the tape.

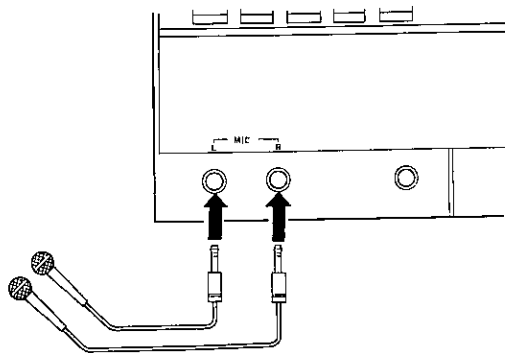
10 USE WITH MICROPHONES

- Microphones have to be 400 ohms to 3 kilo ohms impedance and equipped with a 6.3 mm diameter plug.

- Howl may occur when increasing the volume too much. In such a case, decrease the volume or place the microphones as far as possible from the speakers. If howl occurs, the ALC circuit operates and the sound of a microphone becomes small for a while.

- Set the DUBBING SPEED switch to the NORMAL position before using the microphone. When setting the switch to the HIGH position, no sound can be introduced from the microphone.

RECORDING FROM MICROPHONES



- Check to ensure that Deck 1 is in the stop mode.
- The Dolby NR system does not function.

- 1 Connect two microphone plugs to the MIC right-hand socket (R) and the MIC left-hand socket (L).

- In the event that a microphone is connected only to the right or left socket, sound from the microphone will be recorded from that channel alone.

- 2 Press the TAPE button of the FUNCTION selector.

- 3 Perform steps 2 to the end of the instruction for RECORDING FROM THE BUILT-IN RADIO on page 14.

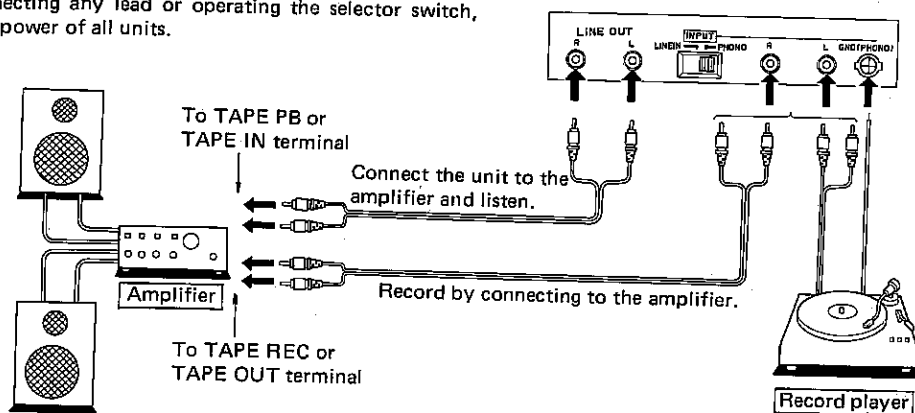
MIXING OF MICROCHONES WITH RADIO, TAPE OR EXTERNAL UNITS

- 1 Connect the microphones (one or two) to the MIC sockets.
- 2 Adjust volume and sound quality (refer to instructions on page 8).
- 3 Let's sing a song to the accompaniment of the external units: tapes, or radio broadcasts.

TO RECORD

Press the TAPE button of FUNCTION selector. Perform steps 2 to the end of the instruction for RECORDING FROM THE BUILT-IN RADIO on page 14.

- Before connecting any lead or operating the selector switch, turn off the power of all units.



RECORD PLAYER

- 1 Connect the output leads of the record player using magnetic cartridge (optional) to the PHONO/LINE INPUT of the unit. Players with ceramic or crystal cartridges are not suitable for use with the unit. If the record player is equipped with an earth lead (or terminal), connect it to the GND terminal of the unit.
 - 2 Set the INPUT selector switch on the rear panel to the PHONO position.
 - 3 Press the PHONO/LINE button of the FUNCTION selector.
 - 4 Set the record player in play mode.
- TO RECORD**
Follow the instructions for RECORDING FROM THE BUILT-IN RADIO on page 14.

EXTERNAL AMPLIFIER

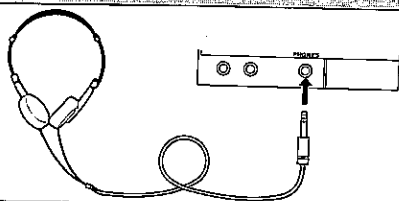
AUDIO REPRODUCTION THROUGH AN AMPLIFIER

- 1 Connect the amplifier input (TAPE PB, TAPE IN, etc.) to the LINE OUT of the unit (with leads having plugs suitable for fitting into each set of sockets).
- 2 Prepare the unit for radio operation (refer to page 9) or cassette playback (refer to page 11).
- 3 Adjust the volume controls of the amplifier to suitable levels.

RECORDING FROM AMPLIFIER

- 1 Connect the amplifier output (TAPE REC, TAPE OUT, etc.) to the PHONO/LINE INPUT of the unit (with leads that have plugs suitable for fitting into each set of sockets).
- 2 Set the INPUT selector switch on the rear panel to the LINE IN position.
- 3 Press the PHONO/LINE button of the FUNCTION selector.
- 4 Begin recording (refer to the instructions for RECORDING FROM THE BUILT-IN RADIO on page 14).

HEADPHONES



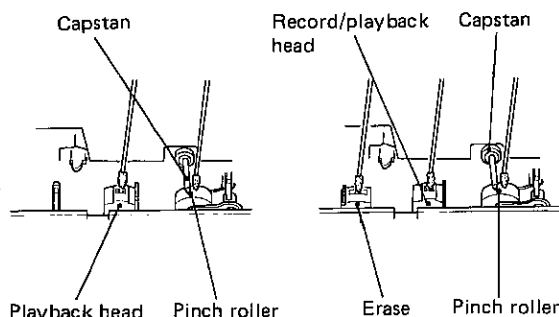
Headphones have to be 8 ohms to 32 ohms impedance and be equipped with a 6.3 mm diameter stereo plug.

Connect the headphones plug to the PHONES socket. Then speaker output will be automatically disconnected. The volume level can be adjusted with the VOLUME controls.

12 MAINTENANCE

CLEANING THE CABINET (Use only a damp cloth for cleaning the cabinet.)

CLEANING THE TAPE HEADS AND MECHANICAL PARTS



Dirt on the heads will impair the sound quality of both recording and play back.

Dust or magnetised particles attached to the capstan or pinch roller are the direct cause of uneven tape speed during recording and playback. This is the cause of "wow" and "flutter", namely tape speed variations below and above normal speed, respectively.

Clean the heads and mechanical parts frequently to remove dust and tape residue.

- 1 Press the ■/▲ STOP/EJECT buttons of Deck 1 and Deck 2 in order to open the cassette compartments. Remove the cassette tapes in the compartments.
- 2 Press the ►PLAY buttons of Deck 1 and Deck 2.
- 3 Wipe the parts with a soft lint-free cloth or cotton swab that has been partially soaked in alcohol (methylated spirit), until the heads are free of all dirt and residue deposits.

DEMAGNETISING THE HEADS

When the head is used for a long time, it is sometimes magnetised to a certain degree. Furthermore, it is also magnetised when magnetised metals, such as screwdrivers, etc. are brought near the head. As a result, treble deteriorates, a static noise is recorded and noise is introduced into important music tapes.

Sometimes use a head demagnetiser sold on the market and demagnetise the head according to the instructions supplied with head demagnetiser.

13 SPECIFICATIONS

Power source: AC 110V — 120V and 220 — 240V, 50/60Hz
DC 15V (UM/SUM-1 or R20 type x 10, or external 15V DC)

Output power: MPO; 30W (15W + 15W) (AC operation)
(DIN 45 324) RMS; 26W (13W + 13W) (DC operation)

Dimensions: Width; 680 mm (26-13/16")
Height; 225 mm (8-7/8")
Depth; 180 mm (7-1/16")

Weight: 8.8 kg (19.4 lbs.) without batteries

TAPE RECORDER

Tape: Compact cassette tape
Frequency response: 30Hz — 14,000Hz (normal tape)
30Hz — 16,000Hz (CrO₂ tape)
30Hz — 17,000Hz (metal tape)

Signal/noise ratio: 55 dB (Deck 1, playback)
60 dB (Deck 2, recording with Dolby NR on)

Input impedance: External mic; 600 ohms
Phono/line in; 50 kohms/50 kohms

Loaded impedance: Headphones; 8 ohms — 32 ohms
External speakers; 8 ohms — 16 ohms
Line out; 0.6V/50 kohms

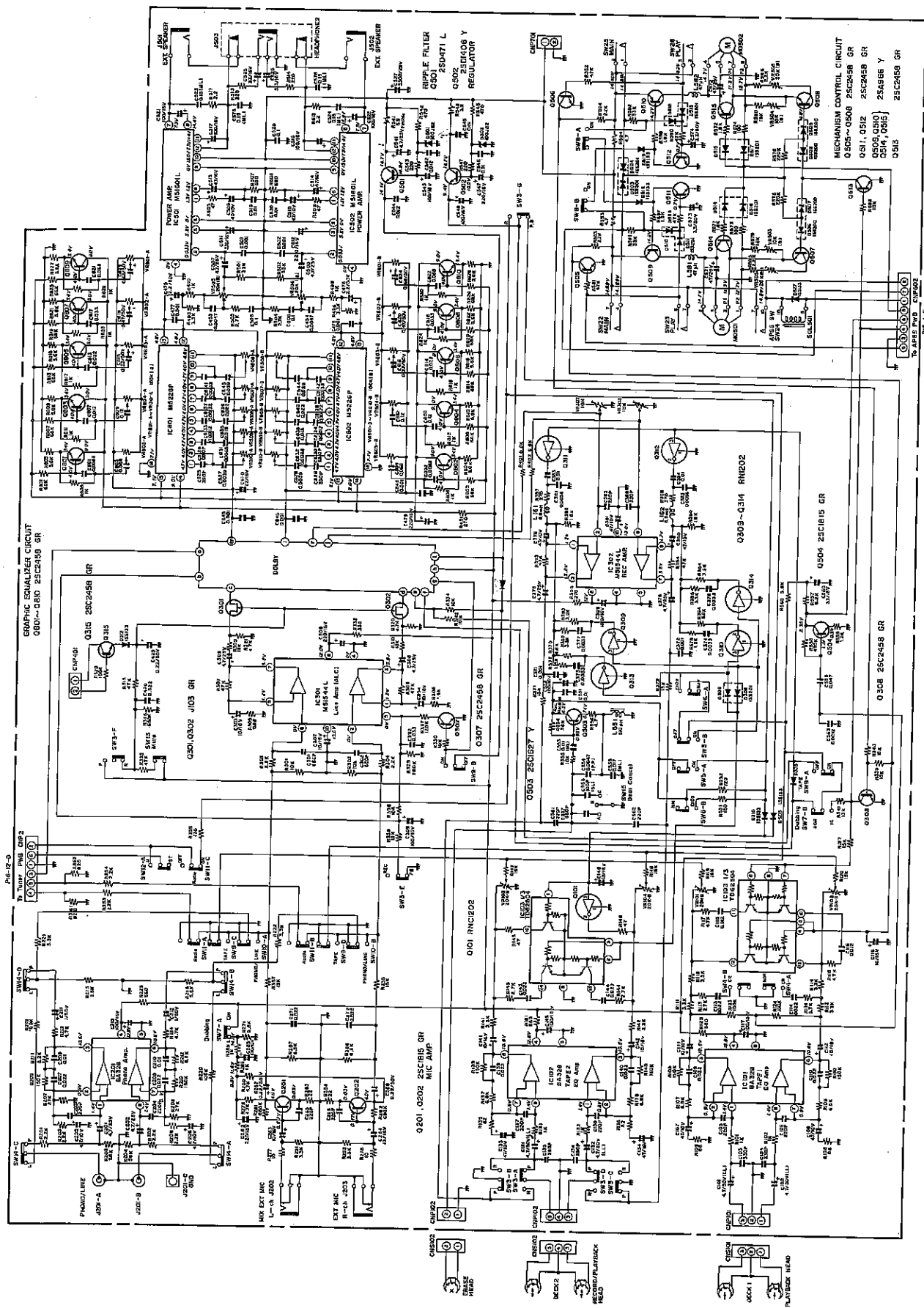
RADIO

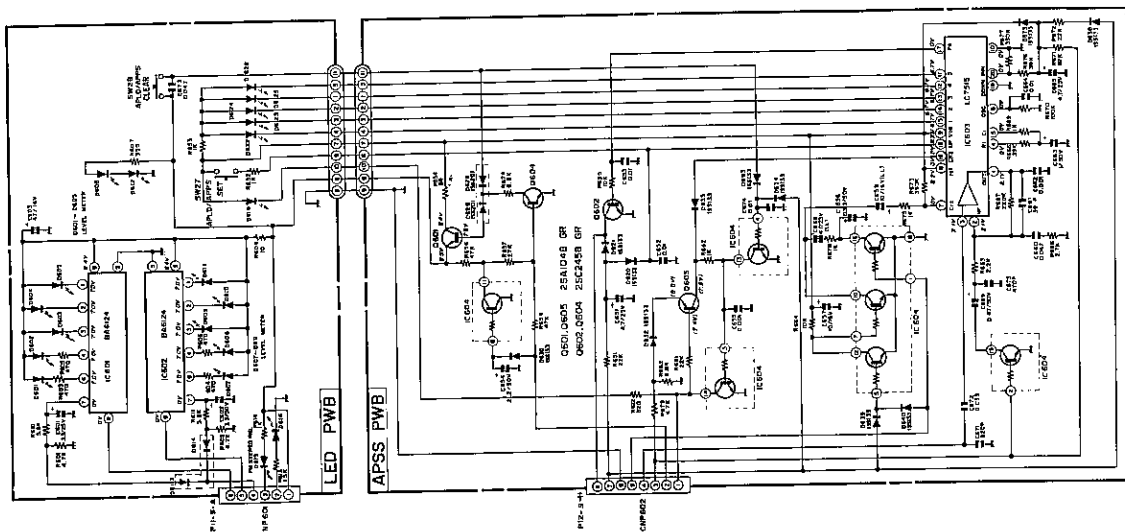
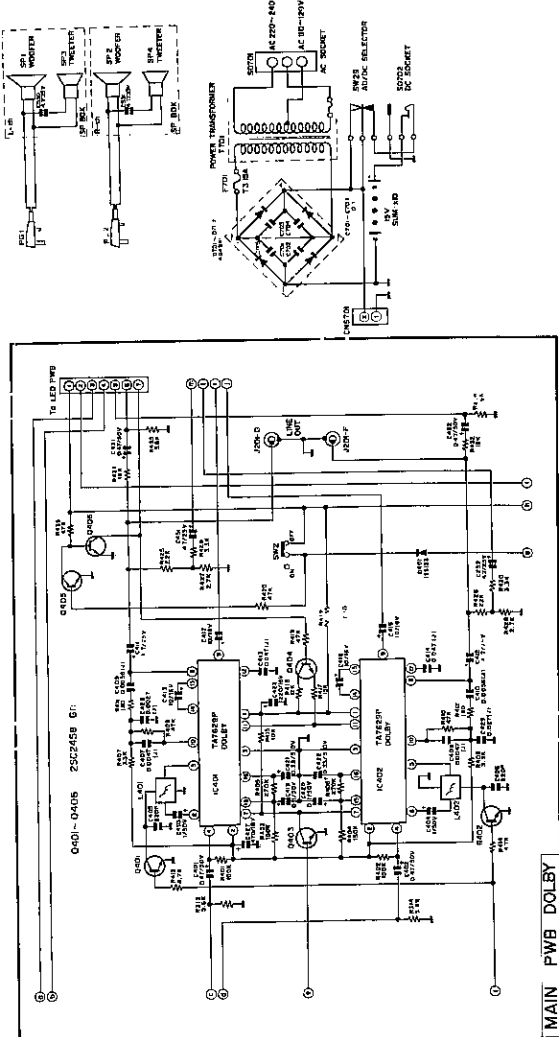
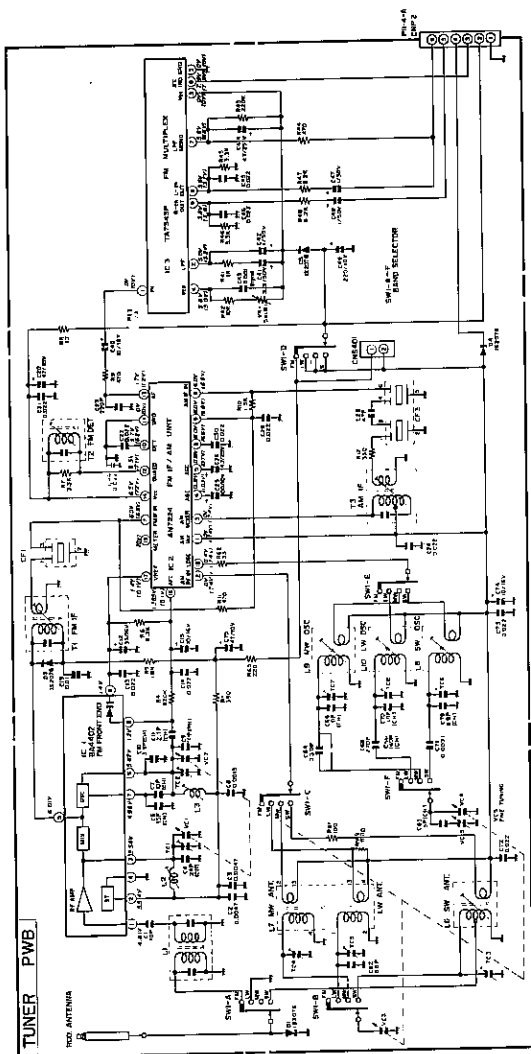
Frequency range: LW; 150 kHz — 285 kHz
MW; 526.5 kHz — 1606.5 kHz
SW; 5.95 MHz — 18.0 MHz
FM; 87.6 MHz — 108 MHz

SPEAKER

Speakers: 16 cm (6-1/2") free-edge woofer x 2
5 cm tweeter x 2
Impedance: 8 ohms
Input: 26W (maximum)

SHARP reserves the right to make design and specification changes for product improvement without prior notice.





- Änderungen der Verdrahtungspläne dieses Modelles jederzeit ohne Vorankündigung im Sinne der Produktverbesserung vorbehalten.
- Le diagramme de câblage de ce modèle est susceptible de modifications sans préavis pour l'amélioration.
- Krettschemat på denna apparat kan ändras för förbättringar utan föregående meddelande.
- Lo schema dei collegamenti elettrici di questa unità è soggetto a cambiamenti senza preavviso, per eventual apporti di migliorie.
- Wiring diagram of this model is subject to change for the improvement without prior notice.

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