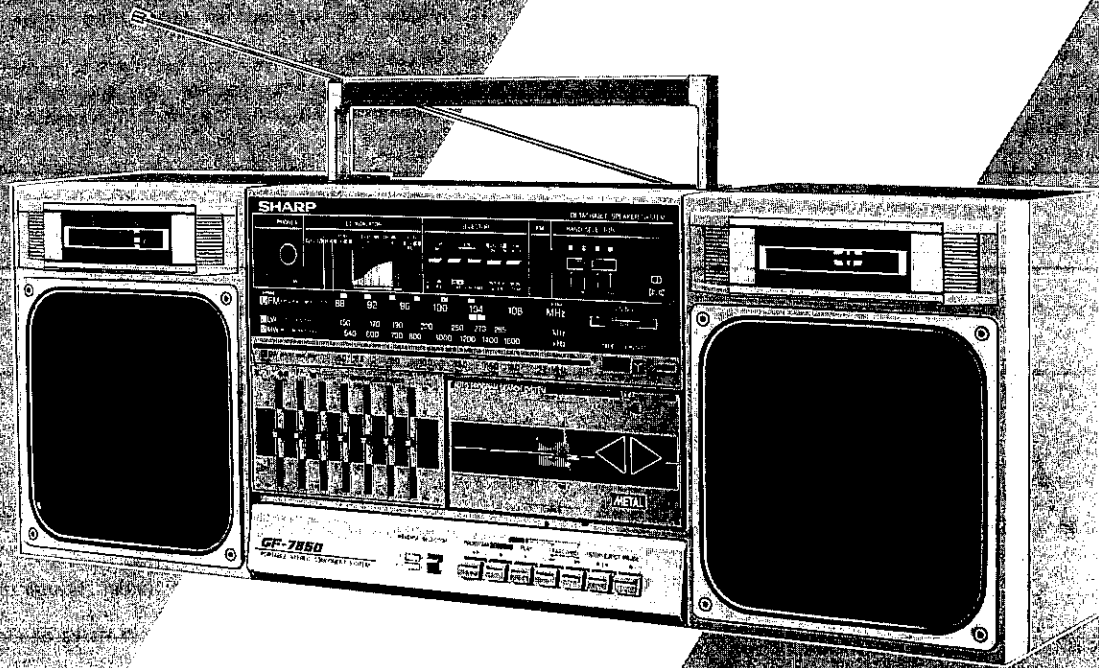


SHARP

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

GF-7850H



TINSZ0720AFZZ

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

DEUTSCH

FRANÇAIS

SVENSKA

ITALIANO

ENGLISH

BESONDERE ANMERKUNGEN REMARQUES SPÉCIALES SÄRSKILDA ANTECKNINGAR

NOTE PARTICOLARI SPECIAL NOTES

Der letzte Buchstabe des Modellnamens auf dem Katalog, Verpackungskarton usw. zeigt die Farbe des Produktes an. Die Bedienungsschritte und die technischen Daten sind ohne Rücksicht auf die Farbe für alle Geräte gleich.

- Das Foto zeigt GF-7850H(S), ein silberfarbenes Modell.

La dernière lettre du nom du modèle sur le catalogue, le boîtier d'emballage, etc., indique la couleur du produit. Les opérations et les caractéristiques sont les mêmes pour tous les appareils, sans considération de la couleur.

- La photographie montre le GF-7850H(S), un modèle couleur d'argent.

Den sista bokstaven i modellkoden på katalogen, packlådan osv. indikerar apparatens färg. Operationer och tekniska data är lika för alla enheter av samma modell oberoende av färg.

- Bilden visar modell GF-7850H(S), i silver.

L'ultima lettera del nome del modello, sul catalogo, imballaggio, ecc. indica il colore del prodotto. Il funzionamento e le caratteristiche tecniche sono identici per tutti gli apparecchi senza riguardo alle loro differenze di colore.

- In copertina è illustrato il GF-7850H(S), il modello di colore argento.

The last letter of the model name on the catalogue, packing case etc. indicates the colour of the product. Operations and specifications are the same for all units regardless of the colour.

- The photograph shows GF-7850H(S), a silver version.

Dieses Gerät stimmt mit den Bedingungen der EG-Richtlinien 82/499/EWG überein.

Cet appareil répond aux spécifications de la directive CEE 82/499/CEE.

Dit apparaat voldoet aan de vereiste EEG-reglementen 82/499/EEG.

Apparatet opfylder kravene i EF direktivet 82/499/EF.

This apparatus complies with requirements of BS 800 and EEC directive 82/499/EEC.

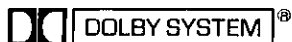
Um Beschädigung beim Transport zu verhindern, verpackt man das Gerät wie auf der Lasche des Kartons dargestellt.

Afin d'éviter d'endommager ce produit pendant le transport, le remettre dans son emballage de la façon indiquée sur le rabat de la boîte d'emballage.

För att skydda produkten för skador under dess transport, skall du återpacka den i packlådan enligt illustrationen på packlådans flik.

Per evitare che questo prodotto subisca dei danni durante il trasporto, imballarlo nel modo illustrato sul coperchio dell'imballaggio stesso.

In order to protect this product from damage during transportation, repack it as illustrated on the flap of the packing case.



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- Das Wort "Dolby" und das Symbol des doppelten D sind die Warenzeichen von Dolby Laboratories Licensing Corporation.

- Réducteur de bruits Dolby fabriqué sous licence des Dolby Laboratories Licensing Corporation.
- Le mot "Dolby" et le symbole double D sont des marques déposées des Dolby Laboratories Licensing Corporation.

- Brusreduktionssystemet är tillverkat på licens av Dolby Laboratories Licensing Corporation.
- Ordet Dolby och den dubbla D-symbolen är varumärken för Dolby Laboratories Licensing Corporation.

- Circuito di riduzione rumore fabbricato sotto licenza dei Dolby Laboratories Licensing Corporation.
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Bei Einstellung des POWER/FUNCTION-Schalters auf "⏻ / TAPE" wird das Gerät auf Betriebsbereitschaft eingestellt, was bedeutet, daß die Netzspannung immer noch im Gerät vorhanden ist. Daher unbedingt den Netzkabelstecker aus der Netzsteckdose ziehen, bevor das Geräteinnere überprüft oder repariert wird.

Quand le commutateur POWER/FUNCTION est réglé à la position "⏻ / TAPE", l'appareil est en position d'attente, ce qui signifie que la tension de secteur est encore présente dans l'appareil. Par conséquent, ne pas omettre de tirer de la prise murale la fiche du cordon d'alimentation avant de procéder à des inspections de l'intérieur de l'appareil ou à des réparations.

När POWER/FUNCTION-omkopplaren är i läge ⏻ / TAPE, är apparaten i beredskapsläge, dvs. nätspänningen är nuvarande i apparaten. Var alltså säker om att alltid dra ut stickproppen från nätkontakten före servicearbeten eller rengöring.

Bemærk

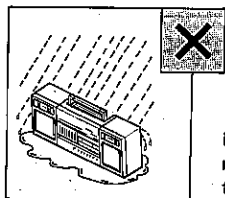
I stilling ⏻ / TAPE er apparatet stadig forbundet med lysnettet. Hvis det ønskes fuldstændig afbrudt skal netledningen trækkes ud.

Quando l'interruttore POWER/FUNCTION si trova in posizione ⏻ / TAPE, l'apparecchio è in condizioni di attesa, il che significa che esso è sempre ancora sotto tensione. Di conseguenza, prima di procedere a qualsiasi esame delle parti interne o a riparazioni, è necessario disinserire il cavo di alimentazione dalla presa di rete.

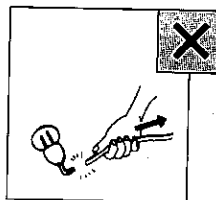
When the POWER/FUNCTION switch is set at ⏻ / TAPE position, the unit is on stand-by, which means that mains voltage is still present inside the unit. Accordingly, be sure to pull the mains plug out of the wall outlet before making any internal examination or repairs.

1

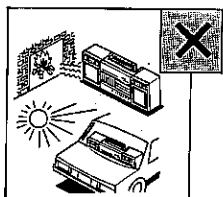
PRECAUTIONS



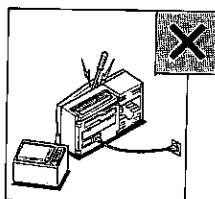
Do not expose the unit to rain or moisture, as this will result in damage to internal circuitry.



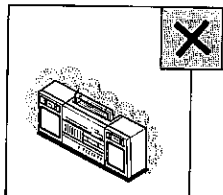
Be sure to hold the AC supply plug — NOT THE LEAD — when removing this plug from the AC outlet. Removing the plug by pulling the lead may result in damaged or broken connections.



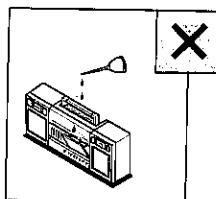
Do not expose the unit to temperatures higher than 60°C (140°F). This includes leaving the unit inside closed vehicles, placing it in direct sunlight or in the vicinity of heaters, etc.



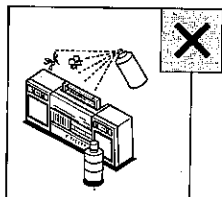
Remove the AC supply lead before servicing or cleaning heads, pinch rollers, etc. Do not remove the unit's cover, as this may result in electric shock. Refer all servicing and repairs to your local SHARP dealer.



Do not locate or store the unit for extended periods in places with high humidity or high concentrations of dust.



Do not apply oil to any part of the unit.



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 mains voltages other than those specified, as this may result in damage, fire, etc. SHARP will NOT be held responsible for damage resulting from use of this unit with unspecified voltages.

Cassette tape, batteries, microphone, headphones, erasing plug, dubbing adaptor, DIN type lead and demagnetiser mentioned in this Operation Manual are not included in this unit.

NAMES OF CONTROLS

Side A Playback/Recording Indicator:
PLAY SIDE-A REC

Dolby NR Switch: DOLBY NR

Level Meter: LEVEL METER

Tape Selector Switches: TAPE (Refer to page 7.)

Side B Playback Indicator: PLAY SIDE-B

Power/Function selector switch:
POWER/FUNCTION

Dolby NR Indicator

FM MODE Switch: FM MODE

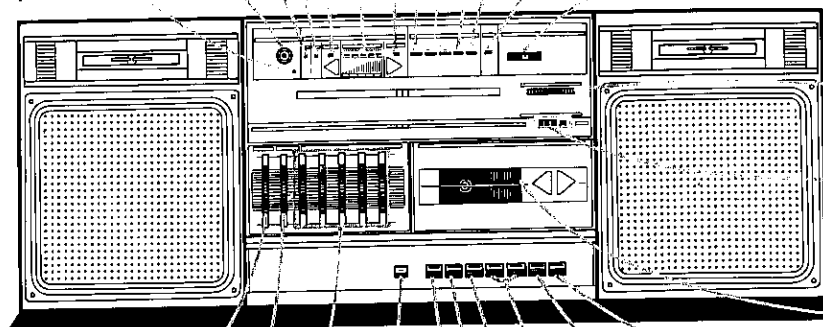
Power Indicator: POWER

FM Stereo Indicator: FM STEREO

Headphones Socket: PHONES

Band Selector Switch: BAND
SELECTOR

Built-in-Microphone: MIC



Tuning Control: TUNING

Digital Tape Counter and Tape
Counter Reset Button: TAPE
COUNTER (Refer to page 12.)

Cassette Compartment

Volume Control: VOLUME

Pause Button: PAUSE

Balance Control: BALANCE

Stop/Eject Button: STOP/EJECT

Graphic Equalizer Controls:
GRAPHIC EQUALIZER
(Refer to page 5.)

Fast Wind Button: FAST WIND

Reverse Selector Switch
REVERSE SELECTOR

Play Button: PLAY

Record Button: RECORD

Programme Button: PROGRAM

Record/Playback DIN Socket: AMP

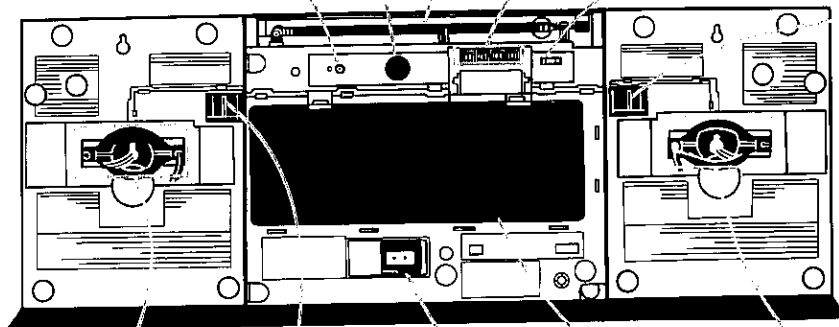
FM/SW Telescopic Rod Antenna

External Speaker Terminals: EXT SP

External Microphone Socket: EXT MIC

Beat Cancel Switch: BEAT CANCEL
(Refer to page 11.)

Speaker Release Knob:
RELEASE



Speaker Lead Holder

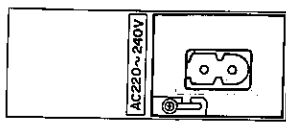
Speaker Lead Holder

Battery Compartment

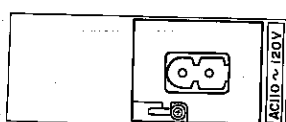
Speaker Release Knob: RELEASE

AC Power Supply Socket
(For AC voltage level selection, refer to page 3.)

AC Operation



AC 220-240V



AC 110-120V

AC Supply Voltage Selector

Be sure to check the voltage setting of the voltage selector before connecting AC supply lead plug to the AC outlet. If necessary, adjust the setting as follows:

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

Connection to the AC Outlet

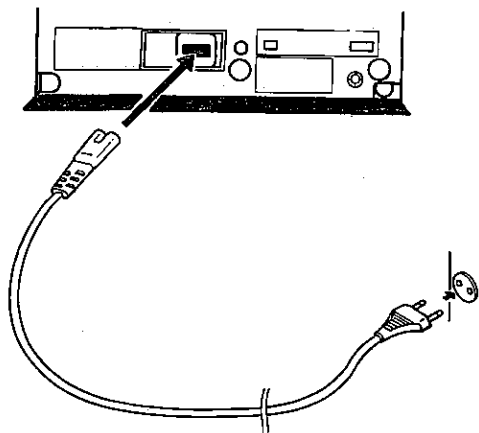
Connect the AC supply lead to the unit's AC power supply socket. Next, connect the AC supply lead plug to the AC outlet. Supply is either 110-120V or 220-240V.

- Inserting the AC supply lead into the unit automatically disconnects the batteries. As a result, the AC supply lead must be removed from the unit in order to operate the unit on battery power.
- An AC power supply should be used whenever possible in order to conserve battery power.

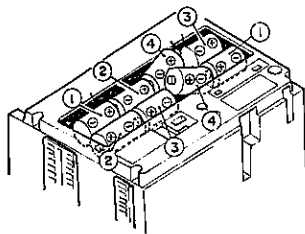
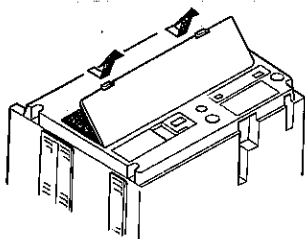
Warning:

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.

Remove the batteries when using the AC power for a long time.



Battery Operation



Insert the batteries ④ by pushing them toward the (-) terminal.

- Disconnect the AC supply lead from the unit.
- Set the POWER/FUNCTION switch to the /TAPE position.

Battery Installation

- 1** Please lay the unit face down on a soft cloth so as not to damage the unit. Remove the battery compartment cover.
- 2** Insert eight batteries into the battery compartment in numerical order as shown in the illustration. Use either UM/SUM-1 or R20 batteries. Battery polarity and location are shown on the rear and battery compartment of the unit.
- 3** Replace the battery compartment cover.

Battery Operation (Continued)

▼ 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 a new battery and an old one 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 periods of time.

(5) Batteries are available in two types: rechargeable and non-rechargeable. Before use, carefully read the cautions on the battery.

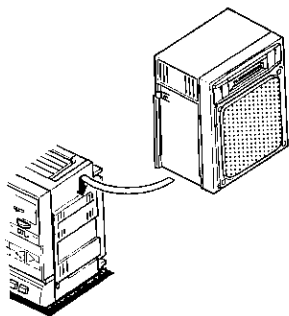
4

DETACHABLE SPEAKERS

- Set the POWER/FUNCTION switch to the /TAPE position before making connection.

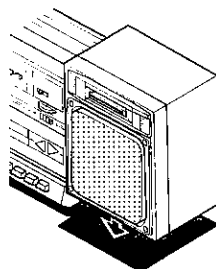
How to Install Speakers to the Unit to Operate

1



Align the groove to the protruding portion of the main body.

2

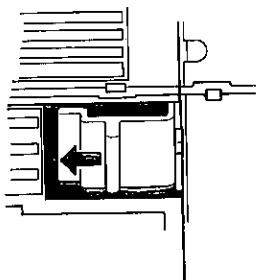


When the speaker is lowered to the same height as the main body, it locks.

- At this time, if a click sound to be locked is not heard, the upper or lower grooves may not be aligned. Then, try again.

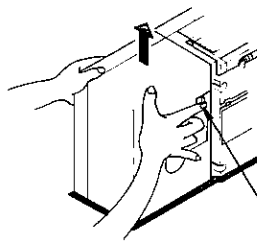
How to Use Speakers That are Separated from the Unit

1



To unlock the speaker, slide the RE-LEASE knob on the back of the speaker box in the direction as shown.

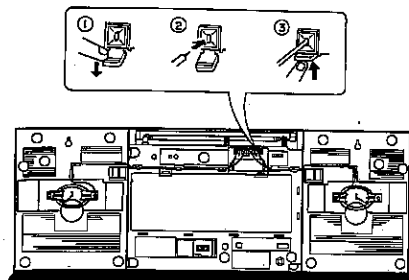
2



Lift the box slightly to remove it from the main body while holding the RE-LEASE knob.

Speaker Release Knob

Connecting the Speaker Leads

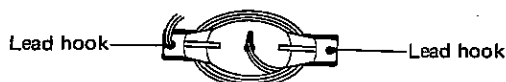


Remove the speaker leads from the lead hook, and then insert them into the EXT SP (right and left) terminals on the main body.

- Connect the leads with the white stripe to the \ominus (black) terminals and the other leads to the \oplus (red) terminals.

Caution

Do not connect more than one speaker lead to each speaker terminal.



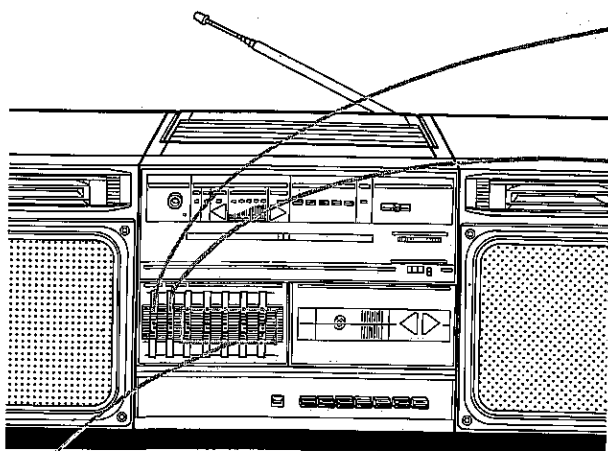
When putting the speaker leads away, wind them around the lead holder and hang it onto the lead hook.

▼ Correlation Between Speakers and Unit

- The speakers' maximum input power is of 20W. Make sure that the output power does not exceed 20W when connecting to other amplifiers.
20W maximum input power for the speakers means 20W in PMPO from the amplifier, and only 15W in MPO and 5W in RMS.
- Connect speakers with 3Ω impedance to this unit. Connecting speakers with less than 3Ω may damage the circuitry of the unit.

5

SOUND CONTROL (Common Functions)



● VOLUME Control

Slide the VOLUME control to adjust sound to the desired level. Sliding the VOLUME control upward increases the volume.

● BALANCE Control

Controls the balance of right and left speaker volume.
● For normal use, set it to the centre position.

● GRAPHIC EQUALIZER Controls

- Slide a control knob of a specific range upward (toward +10 position) to emphasise or downward (toward -10 position) to diminish the sounds in that particular range.
- By setting all GRAPHIC EQUALIZER controls to the centre position, the frequency responses will become flat.

100 Hz This is the sound range that will bring out the fascinating bass sounds of such instruments as bass guitars or drums. Slide the control knob upward to increase output at these frequencies and downward to reduce output at the same.

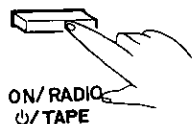
330 Hz This is the range that covers human voices and basic sounds of music. Slide the knob upward and human voices will be emphasised and vice versa.

1 kHz This range affects the middle register which is higher than the 330 Hz range. By sliding the knob upward, sounds from a piano or brass instruments, or high human voices will be emphasised and vice versa.

3.3 kHz Slide the knob upward and sounds from string instruments will be emphasised. Slide the knob downward for the opposite effect.

10 kHz The upper register of cymbals and triangles is emphasised by sliding this knob upward. Slide the knob downward to reduce tape hiss noises.

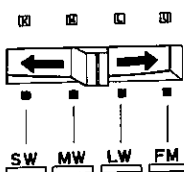
1

POWER
FUNCTIONON/RADIO
⏻/TAPE

Set the POWER/FUNCTION switch to the ON/RADIO position.

2

BAND SELECTOR



SW MW LW FM

Slide the BAND SELECTOR switch to the SW, MW, LW or FM position.

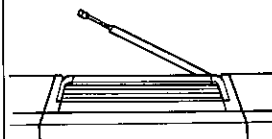
3

TUNING



Tune to the desired station.

4



Adjust the antenna to obtain the best reception.

5

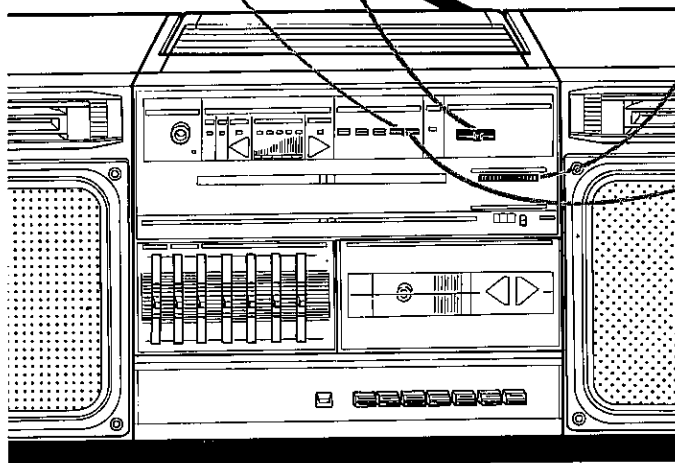
FM
MODEMONO
STEREO

With the BAND SELECTOR switch in the FM position, set the FM MODE switch to the STEREO or MONO position.

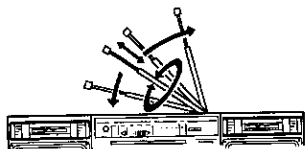
The STEREO position is selected to listen to FM stereo broadcasts (The FM STEREO indicator illuminates.); monaural broadcasts can also be received. However, if the signal is weak or distorted, change the switch to the MONO position to improve sound quality.

6

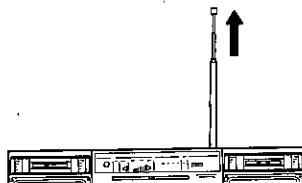
Adjust volume and sound quality (refer to instructions on page 5).

**After Use**

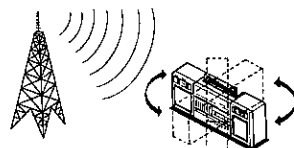
Set the POWER/FUNCTION switch to the ⏻/TAPE position to terminate radio operation.

Aerial Adjustment Instructions**For Receiving FM Broadcasts**

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

**For Receiving SW Broadcasts**

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

**For Receiving MW or LW Broadcasts**

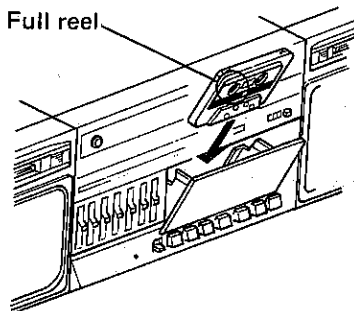
Rotate or locate the unit to receive peak signal strength of the MW or LW broadcast.

INSERTING CASSETTE TAPE

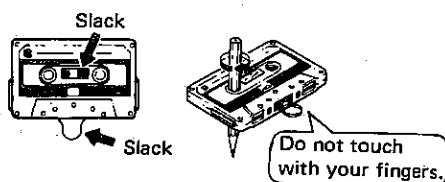
- Use only well-known brands of tape.
- Use of C-120 (120 minutes) cassettes is not recommended. The extreme thickness of this tape may result in breakage or other problems.

- Broken tapes can easily become entangled in the drive mechanism, causing major damage.
- Stretched tapes will run at uneven speeds and will distort anything recorded on them.

Inserting



- 1 Press the **STOP/EJECT** button.
- 2 Insert the cassette tape into the compartment so that the title of the tape track to be used is facing outwards.
- 3 Close the compartment door.



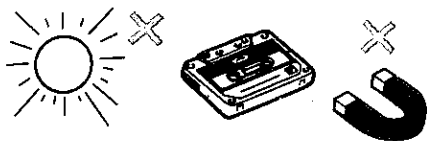
Tape Slack

Check to ensure there is tape visible through the cassette centre window. Tighten any loose tape with a pencil or ball-point pen before loading the cassette into the compartment, as shown at left.

Unloading

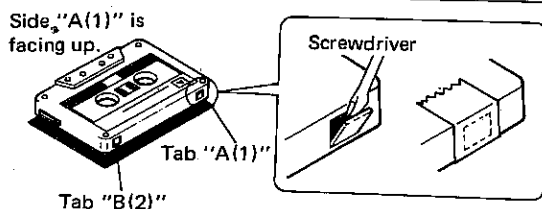
Press the **STOP/EJECT** button and remove the cassette.

Note for Storing Cassette Tapes



- Do not locate cassettes near objects with a strong magnetic field, such as radios, TV sets or loudspeakers. Magnetic fields may reduce the tape sensitivity or even erase the recording.
- Do not store cassettes for extended periods in hot, moist or dusty locations.

Protecting Cassette Tapes Against Erasure



All cassette tapes are provided with tabs which, when in place, allow tape erasure. If the tab ["A(1)" or "B(2)"] is removed, the tape on the side in which tab was removed cannot be erased. (The **RECORD** button can not be pressed.)

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

Setting the Tape Selector Switches

Since normal, chrome and metal tapes have different characteristics, this tape recorder has TAPE selector switches to take advantage of each of these tapes special characteristics. Refer to the following chart, and set the switches to the appropriate position.

- Be sure to return the METAL switch to the OFF position when using chrome and normal tapes.



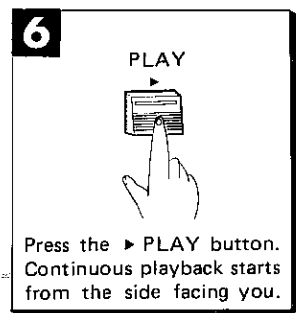
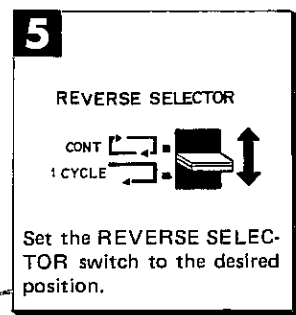
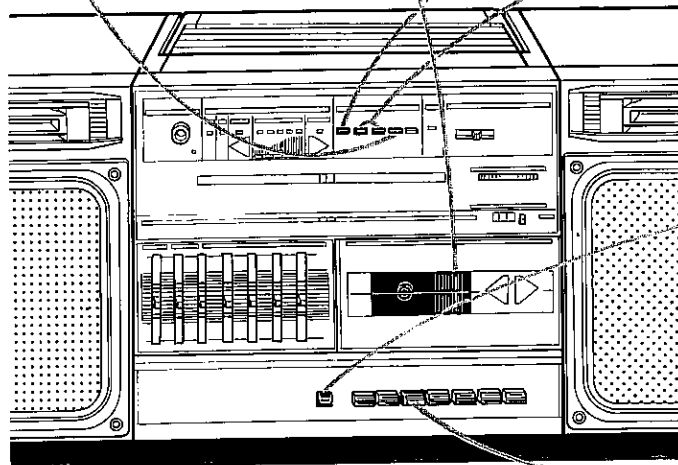
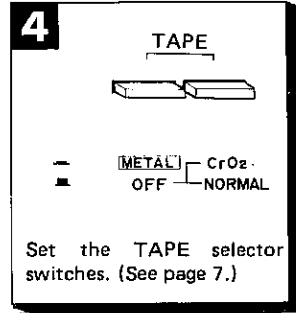
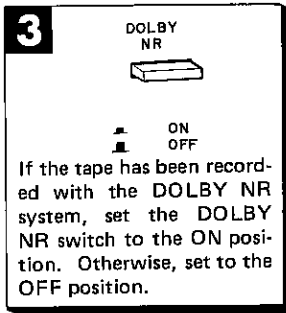
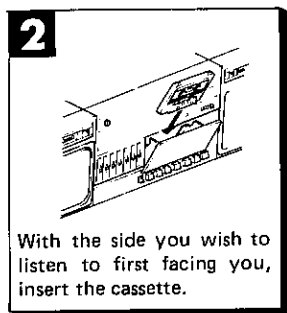
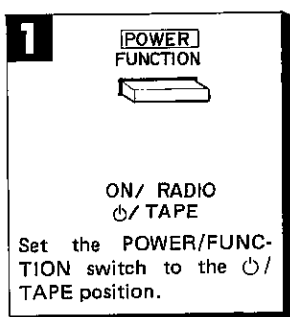
METAL OFF **CrO₂** **NORMAL**

Type of tape	METAL Switch Position	CrO ₂ /NORMAL Switch Position
Normal (low noise) tape	OFF	NORMAL
Chrome tape	OFF	CrO ₂
Metal tape	METAL	Irrespective of position

CASSETTE PLAYBACK

- Use this unit with the REVERSE SELECTOR switch kept in the "CONT" position. Continuous playback from the side facing you (side "A") to the other side (side "B") will be repeated automatically.
To playback both sides just once, set it to the "1 CYCLE" position.

- This product is designed that playback always starts from the side facing you (side "A") when the ► PLAY button is pressed.



- 7** Adjust volume and sound quality (refer to instructions on page 5).

How to Stop Tape

To stop the tape when the unit is in the recording playback, fast forward, rewind or APSS mode, press the ■/▲ STOP/EJECT button.

Full Auto Stop System

When the end of the tape is reached while the unit is operating in the recording, playback, fast forward, or rewind mode, the full auto stop system is activated and automatically puts the unit into the neutral (stop) mode.

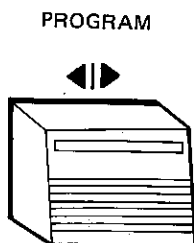
In the playback mode, however, the unit is put into the neutral (stop) mode only when the REVERSE SELECTOR switch is in the "1 CYCLE" position and after reproducing side "B" of the cassette tape is finished.

When the REVERSE SELECTOR switch is set to the "1 CYCLE" position.

- After playback of the side facing you (side "A") and the other side (side "B"), the unit will automatically stop.

Be sure to press the ■/▲ STOP/EJECT button after using the unit, since the unit continues to reproduce the programmes endlessly if the REVERSE SELECTOR switch is set to the "CONT" position.

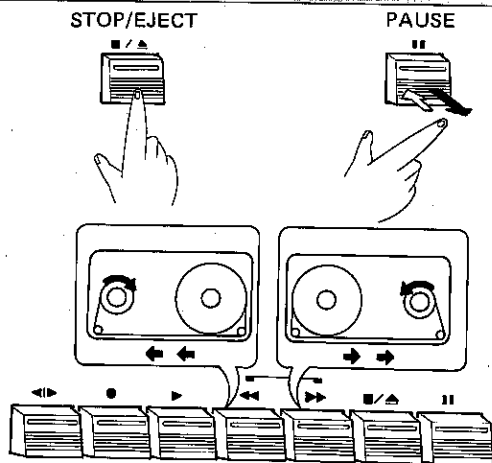
To Listen to the Other Side



Press the ◀▶PROGRAM button.

- ◀▶PROGRAM button only works when the ▶ PLAY button is pressed. In other modes, including the recording mode, it does not function.
- Press the ◀▶PROGRAM button firmly. If pressed too lightly, it may not switch to the other side.
- When the REVERSE SELECTOR switch is in the "CONT" position, it is possible to change the programme as many times as you wish. However, when it is in the "1 CYCLE" position, and SIDE-B indicator is on, pressing this button automatically stops the tape.

Fast Forward or Rewind



- Press the ■/▲ STOP/EJECT button if the recorder is in a mode other than neutral.
 - If in the pause mode, it should be released. Otherwise, the ◀◀ or ▶▶ FAST WIND button will not be released when the tape end is reached.
- 1 Press the ◀◀ or ▶▶ FAST WIND button corresponding to the direction in which you wish to advance the tape.
 - 2 Press the ■/▲ STOP/EJECT button when the tape has been wound to the desired position.
- When the end of tape is reached, the tape will stop automatically, and the recorder will return to the neutral mode.

Pause Control



During playback or recording, if the II PAUSE button is pressed, the tape temporarily stops. When the button is pressed once again, the playback or recording begins again.

Mode Selection

Before changing from one mode to another while the unit is operating in the recording, playback, fast forward or rewind mode, be sure to first press the ■/▲ STOP/EJECT button. For APSS operation, however, it is not needed to press the ■/▲ STOP/EJECT button in advance: to start it depress the ◀◀ or ▶▶ FAST WIND button when the ▶ PLAY button is being pressed.

When the Batteries are Too Weak

When the batteries are too weak, the unit will not function by pressing the ▶ PLAY button or ● RECORD button and it is then not possible to return the ▶ PLAY button or ● RECORD button completely by pressing the ■/▲ STOP/EJECT button. In that case, replace the batteries or use an AC supply lead and press the ▶ PLAY button.

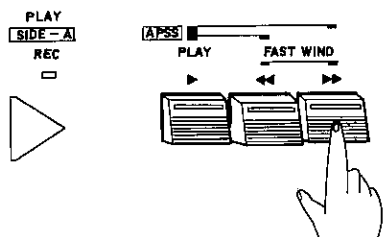
When the Cassette Compartment lid cannot be opened

Insert new batteries, connect the AC supply lead to the unit, depress the ▶ PLAY button and then depress the ■/▲ STOP/EJECT button twice.

APSS (Auto Program Search System)

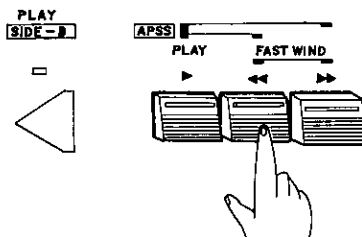
- Operate the APSS during playback.
- During APSS operation, do not press the ◀▶ PROGRAM button. Doing so will release the APSS operation.

For Side A Forward APSS



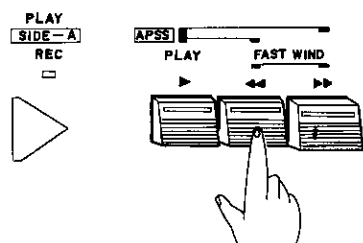
Press the ▶ FAST WIND button that is the same direction as the SIDE-A indicator.

For Side B Forward APSS



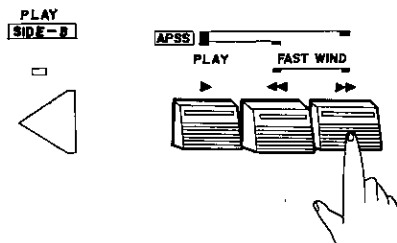
Press the ▶ FAST WIND button that is the same direction as the SIDE-B indicator.

For Side A Reverse APSS



Press the ◀ FAST WIND button that is the opposite direction of the SIDE-A indicator.

For Side B Reverse APSS



Press the ◀ FAST WIND button that is the opposite direction of the SIDE-B indicator.

APSS Pause Control

If it is desired to stop the tape at the beginning of the selection, press the II PAUSE button prior to performing the APSS operations.

- The tape is wound to the beginning of the next programme, or rewound to the beginning of the current programme, and goes into playback mode automatically.

▼ Notes on APSS Operation

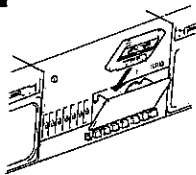
- The APSS may not function perfectly at all times with tape containing the following characteristics:
 - a. The recorded signal on the tape is of an intermittent nature (speech, music with silent passages, etc.).
 - b. The recorded signal on the tape contains soft classical music, solo performance, modern jazz, etc.
 - c. The recorded signal on the tape is of low strength.
 - d. The recorded programme items are separated by less than three-second space (during which there occurs no signal).
 - e. The recorded programme items are separated by spaces which are not free of noise or stray signals.
- Avoid locating the unit in the vicinity of powerful magnetic fields, such as those generated by TV sets, or other electrical appliances.
- When the APSS is functioning (searching for a programme item in either forward or reverse), the speakers may emit a slight high-pitched sound. This is not due to any malfunction of the unit, and does not present need for alarm.
- The APSS system does not function during radio reception.
- Do not change directly from the forward APSS (or reverse APSS) to reverse APSS (or forward APSS).

- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.
- The ALC (Automatic Level Control) circuit automatically controls the level of input signal strength used for recording.

- When recording, the unit stops automatically when the end of the tape on side facing you (side "A") is reached. In this case, the Auto Reverse function will not work.

Recording from the Built-in Radio


1



Insert the cassette.

2

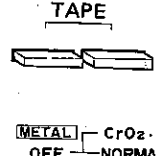
DOLBY NR



When recording with DOLBY NR, set the DOLBY NR switch to the ON position. If not, set to the OFF position.

3

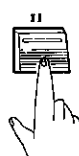
TAPE



Set the TAPE selector switches. (See page 7.)

4

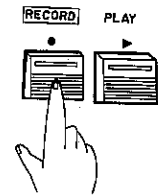
PAUSE



Press the II PAUSE button.

5

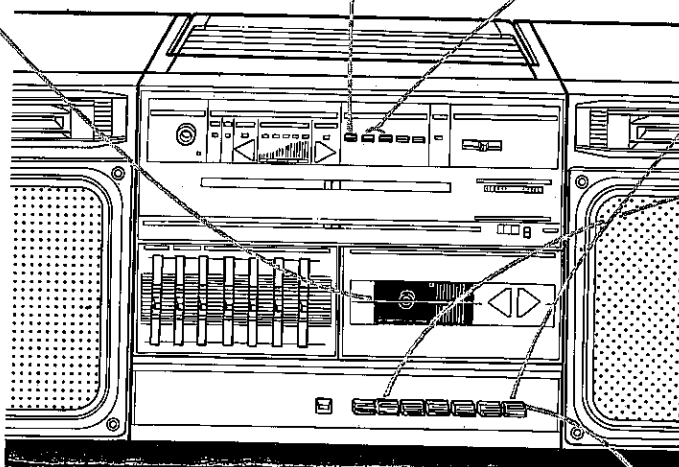
RECORD PLAY



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

6

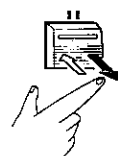
Tune to the desired station (refer to the instructions on page 6).



- The VOLUME, BALANCE and GRAPHIC EQUALIZER controls may be adjusted with no effect on the recording level input signal.
- The • RECORD and ► PLAY buttons will be released automatically when the end of tape is reached. However, radio reception will continue uninterrupted.

8


PAUSE



Press the II PAUSE button a second time to release it and begin recording.

7

(Rear Panel)



Slide the BEAT CANCEL switch to the A, B or C position, that is, to the position allowing the lowest level of interference during the LW, MW or SW broadcast.


Recording from the Built-in Microphone

- Do not connect any plug to the EXT MIC socket during recording with the built-in microphone.
- Monitoring of recording is not possible.
- The sound recorded from the built-in microphone is monaural.

- 1 Set the POWER/FUNCTION switch to the ○/TAPE position.
- 2 Turn the front panel of the unit so that it is facing the sound source and locate the unit for optimal reproduction.
- 3 Perform steps 1, 3, 4, 5 and step 8 of "Recording from the Built-in Radio."

APSS Spacing




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

- 1 Press the II PAUSE button at the end of the recording.
- 2 Set the POWER/FUNCTION switch to the /TAPE position.
- 3 Connect the erasing plug to the EXT MIC socket.

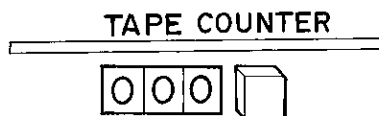
- 4 Press the II PAUSE button to release the pause function, and play the tape about five seconds.
- 5 Press the II PAUSE button.
- 6 Remove the erasing plug from its socket.
- 7 Return the POWER/FUNCTION switch to the original position.
- 8 Press the II PAUSE button to release the pause function when you want to start the recording again.

Erasing Recorded Tapes

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

- 1 Insert the tape to the erased into the cassette compartment.
- 2 Set the POWER/FUNCTION switch to the /TAPE position.
- 3 Connect the erasing plug to the EXT MIC socket.
- 4 Press the  RECORD button. This will automatically engage the  PLAY button and begin erasing the tape.

Digital Tape Counter

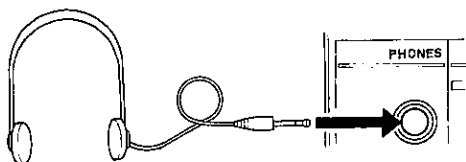


Push the button at the side of the counter to reset to "000". The counter will advance while recording or playback is in progress. These readings provide a useful reference during recording and playback.

- When the SIDE-A indicator is lit, the counter will increase during recording, playback, fast forward or forward APSS and decrease during rewind or reverse APSS.
- When the SIDE-B indicator is lit, the counter will decrease during playback or forward APSS and increase during reverse APSS.

10 USE WITH EXTERNAL UNITS

Use of the Headphones



Headphones should have an impedance of 8 ohms to 32 ohms and be equipped with a 6.3 mm diameter stereo plug. Connect the headphones plug to the PHONES socket. Speaker output will be automatically disconnected. The volume level can be adjusted with the VOLUME control.

- A commercially available stereo plug adaptor can be used with headphones having a mini plug (diameter 3.5 mm).

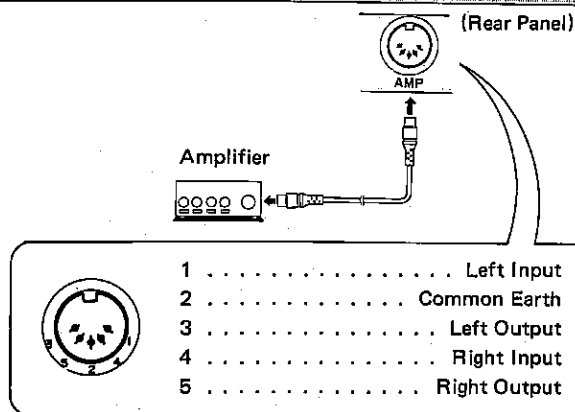
Recording from an External Microphone

Microphone should have an impedance of 400 ohms to 3k ohms and be equipped with a 3.5 mm diameter plug.

- 1 Connect the microphone plug to the EXT MIC socket.
- 2 Set the POWER/FUNCTION switch to the \odot /TAPE position.
- 3 Perform steps 1, 3, 4, 5 and step 8 of "Recording from the Built-in Radio" on page 11.

- Avoid feedback by separating an external microphone from speakers or by reducing volume.
- If howling is occurred, the ALC circuit operates and the sound of a microphone becomes small for a while.
- The sound recorded from the external microphone is monaural.

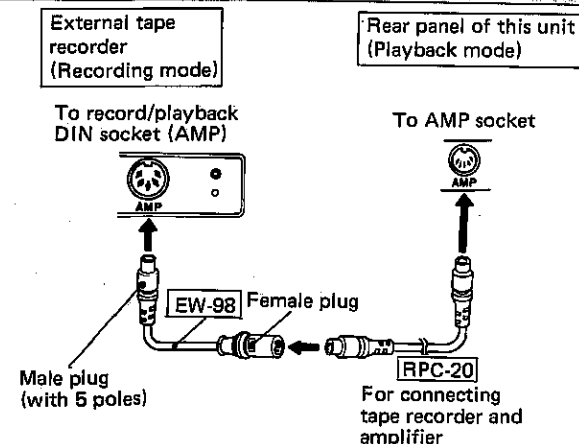
Connecting an External Amplifier



Use a standard lead fitted with DIN plugs to connect the unit to amplifier. This type of lead permits recording and play via external equipment.

- 1 Set the unit to the neutral (stop) mode.
- 2 Plug one end of lead into the AMP socket.
- 3 Plug the other end of lead into DIN type socket of the amplifier.
- 4 AMP socket connections are shown at the left. If an amplifier is not supplied with such a fitting, an alternative lead and fitting can be supplied by dealer.
- 5 Adjust the unit to record mode (page 11) or to playing mode (page 8).

Connecting an External Recorder



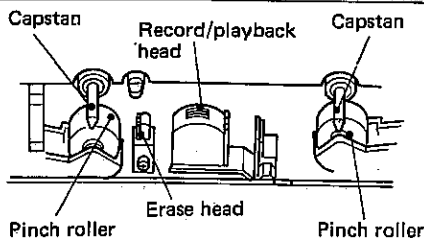
- 1 Set the unit to the neutral (stop) mode.
- 2 The use of a dubbing adaptor (Part No. EW-98) and DIN lead (Part No. RPC-20) permits the connection of two recorders for tape dubbing. The illustration at left shows how to connect the units in order to dub programmes of this unit onto an external tape recorder. Note that satisfactory results may not be obtained if proper connection procedure is not followed.

Note:

Do not connect another tape recorder to the AMP socket of this unit without using a dubbing adaptor.

11 MAINTENANCE

Cleaning the Heads and Other Mechanical Parts



When the heads, capstans and pinch rollers become dirty, it may result in muffled, distorted or reduced sound during playback and may even result in tape jams.

Remove the cassette tape and clean the soiled parts with a cotton swab moistened with a commercially sold head/pinch roller cleaner or alcohol.

- Wait approximately 10 seconds for the cleaner/alcohol to dry before using the unit.

Demagnetising the Heads

If the heads are used for a long time, the heads will gradually become magnetised.

When the Head Becomes Magnetised

- Treble tones may be lost and distortion may result during playback.
 - Static distortion may be recorded when recording.
 - Distortion and noise may be recorded on previously recorded music tapes.
- Any of the above may occur.

Demagnetise the head with a commercially sold head demagnetiser approximately once every 30 hours of playing time.

Any magnetised metal object brought near the heads may result in the heads being magnetised also.
Read the instructions that come with the demagnetiser carefully on use.

Cleaning the Cabinet

To clean the cabinet or panel, wipe with a soft cloth and a dilute soap solution.
Then wipe with a dry cloth.

Do not use a chemically treated cleaning cloth, benzene or paint thinner.

This will cause the cabinet material to change chemically and result in cracking, peeling, or damage to the finish.

12 SPECIFICATIONS

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

General

Power Source: AC 110–120V and 220–240V, 50/60Hz
DC 12V (UM/SUM-1 or R 20 type x 8)

Output power: MPO; 20W (10W + 10W)
(DIN 45 324) (AC operation)
RMS; 10W (5W + 5W)
(DC operation)

Semiconductors: 10 ICs
19 Transistors
25 Diodes
10 LEDs

Dimensions: Width; 630 mm (24-13/16")
Height; 225 mm (8-7/8")
Depth; 155 mm (6-1/8")

Weight: 5.4 kg (11.9 lbs.) without batteries

Tape Recorder

Tape: Compact cassette tape

Frequency response: Normal tape; 50Hz – 14,000Hz
CrO₂ tape; 50Hz – 15,000Hz
Metal tape; 50Hz – 16,000Hz

Signal/noise ratio: 60 dB; Dolby ON
50 dB; Dolby OFF

Wow and flutter: 0.26% (DIN 45 511)

Input sensitivity and impedance: EXT mic; 1mV/600 ohms
Record/playback socket (AMP);
0.5 mV/8 kohms

Loaded impedance: Headphones; 8 – 32 ohms
External speakers; 3 – 8 ohms

Radio

Frequency range: FM; 87.6 – 108 MHz
SW; 5.95 – 18 MHz
MW; 526.5 – 1606.5 kHz
LW; 150 – 285 kHz

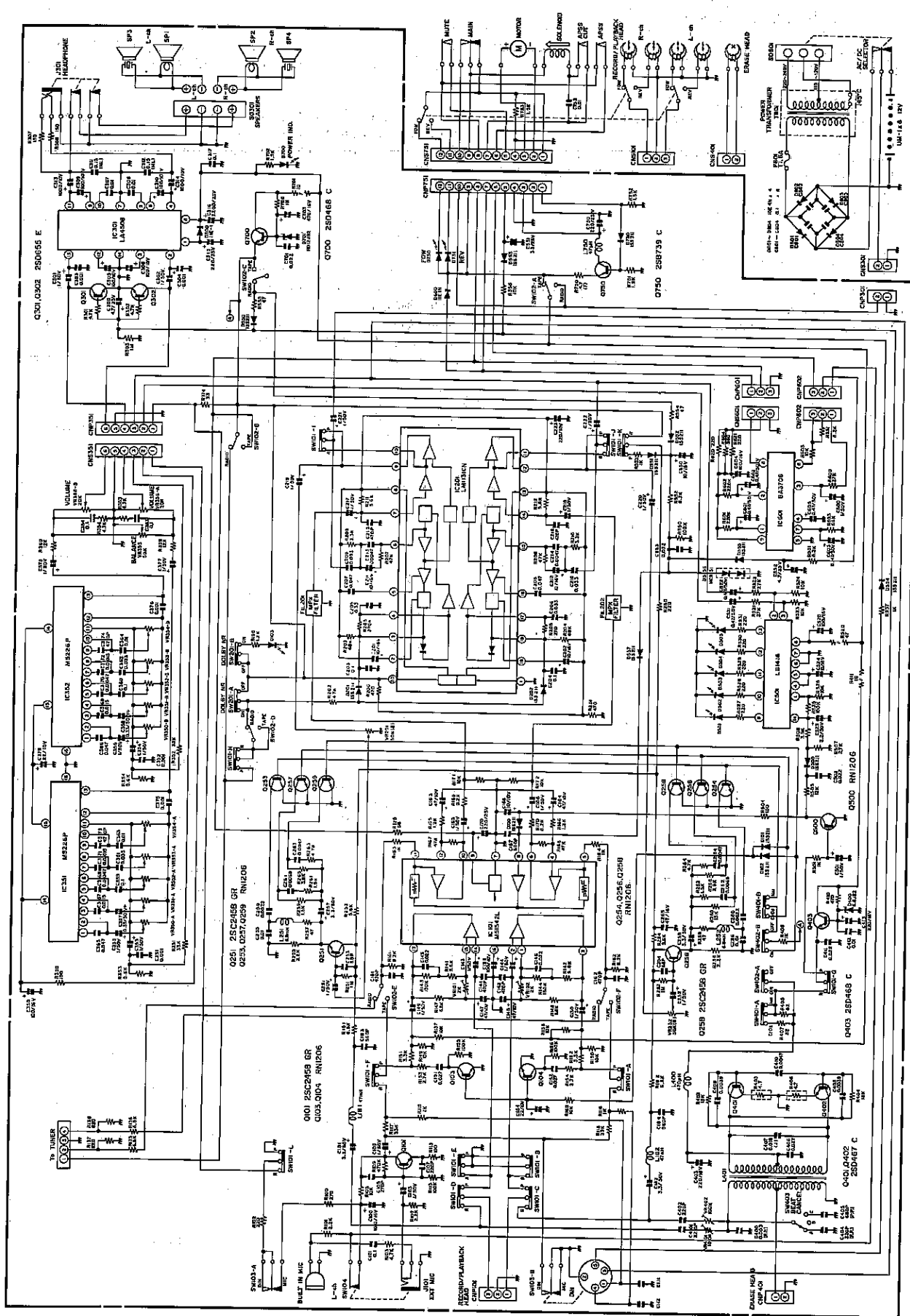
Speaker

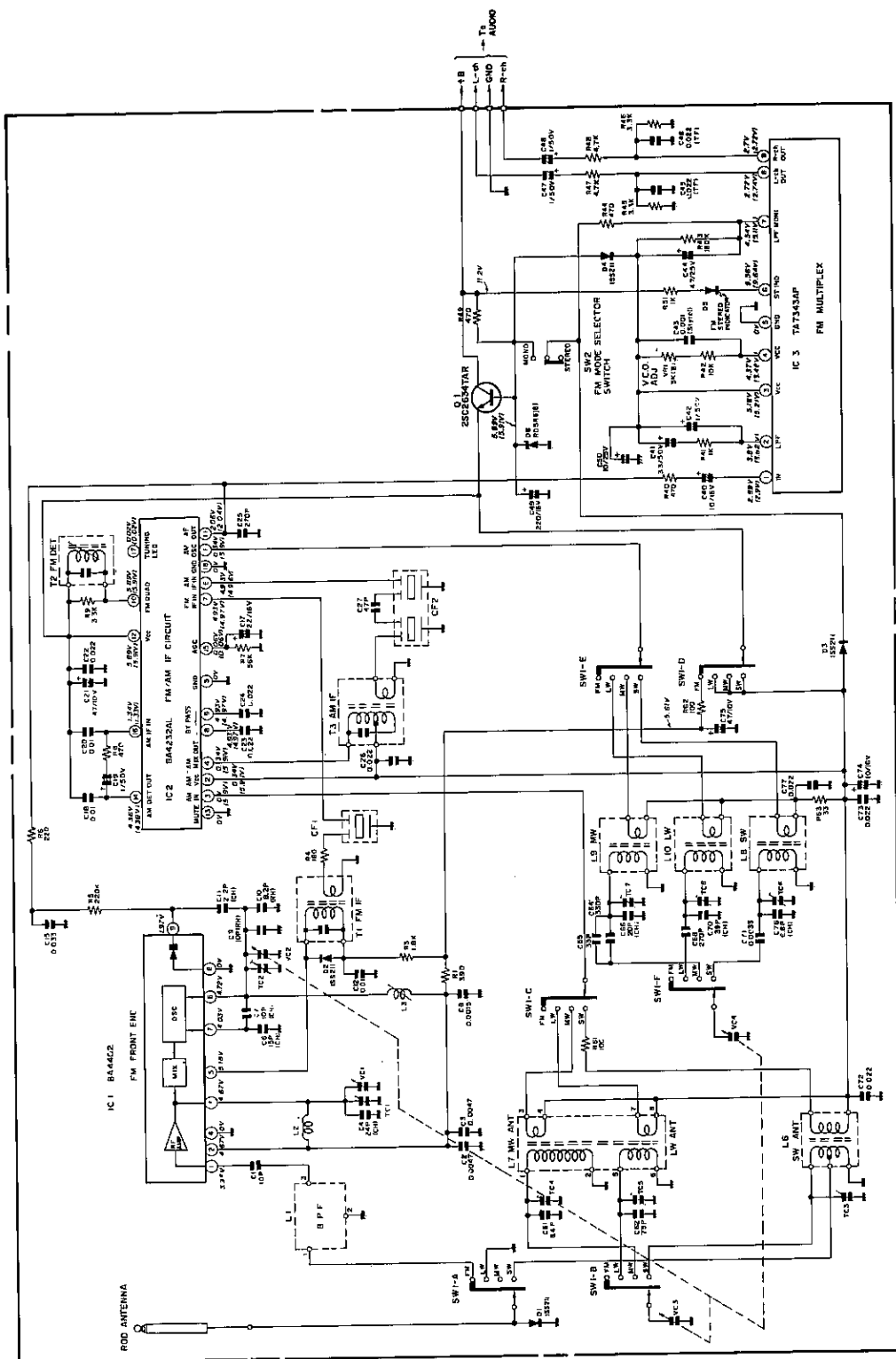
Type: Open air type

Speakers: 12 cm (4-3/4") woofer x 2
Horn type tweeter x 2

Impedance: 3 ohms

Maximum power handling capacity: 20 W (maximum)





- 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.
- Kretsschemat 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.

SHARP

SHARP CORPORATION

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