

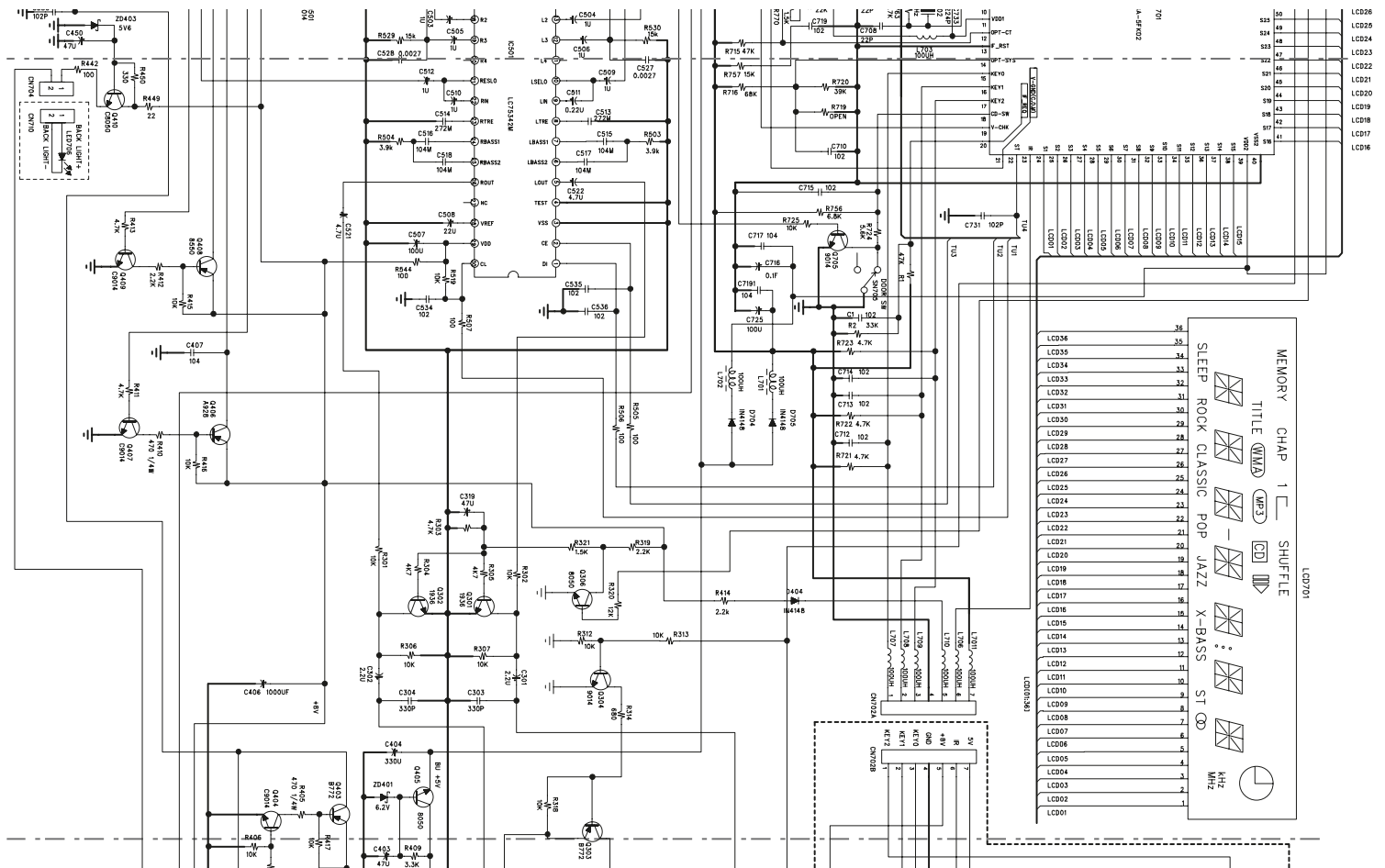
Thank you for purchasing this SHARP product.
To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

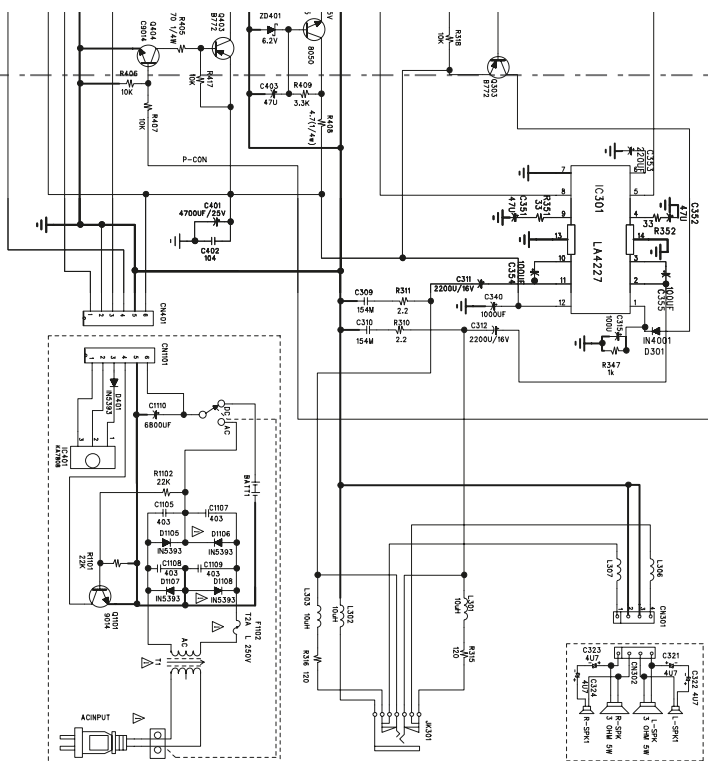


CD-R/RW
Playable

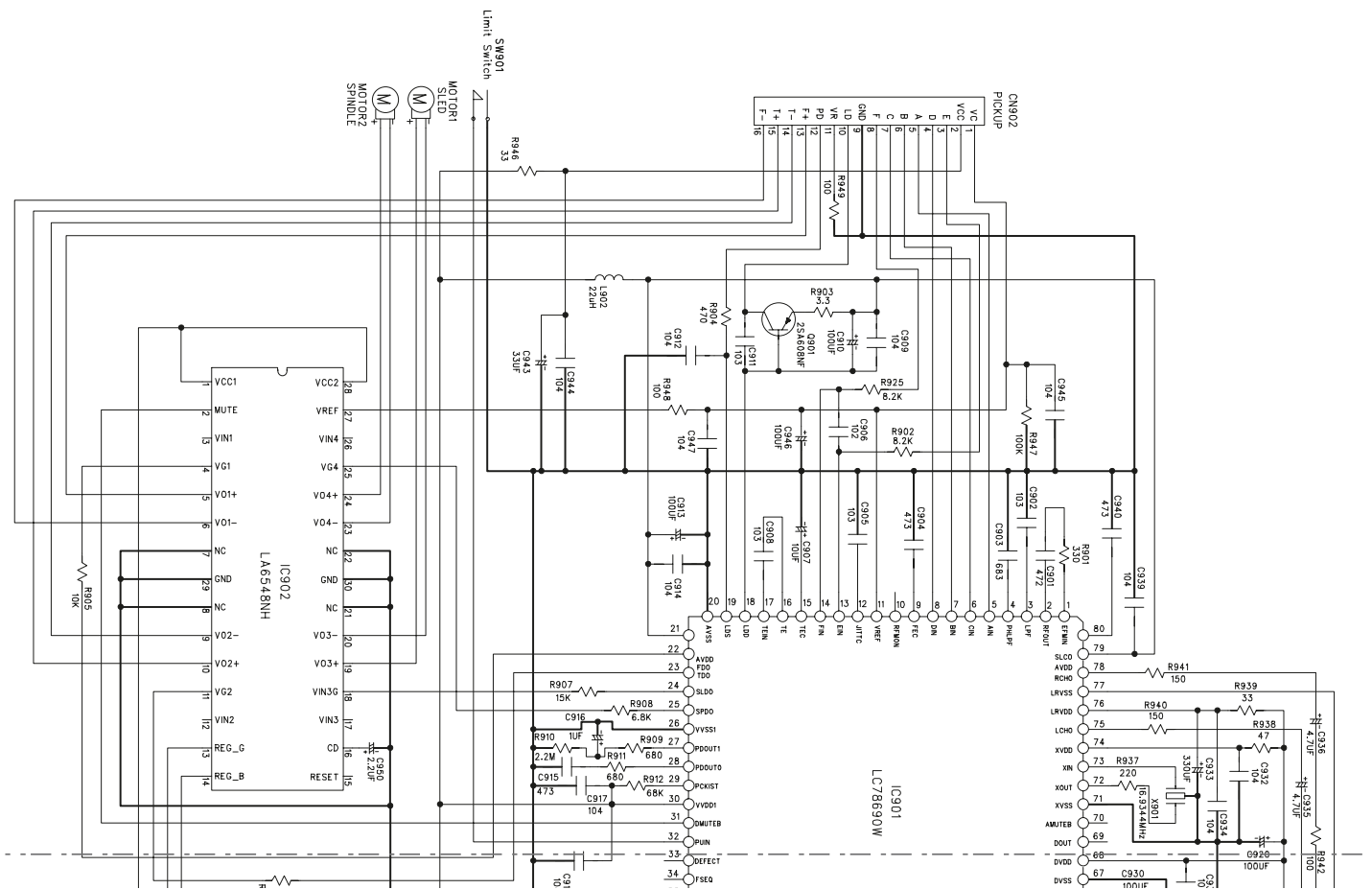
COMPACT
disc
DIGITAL AUDIO

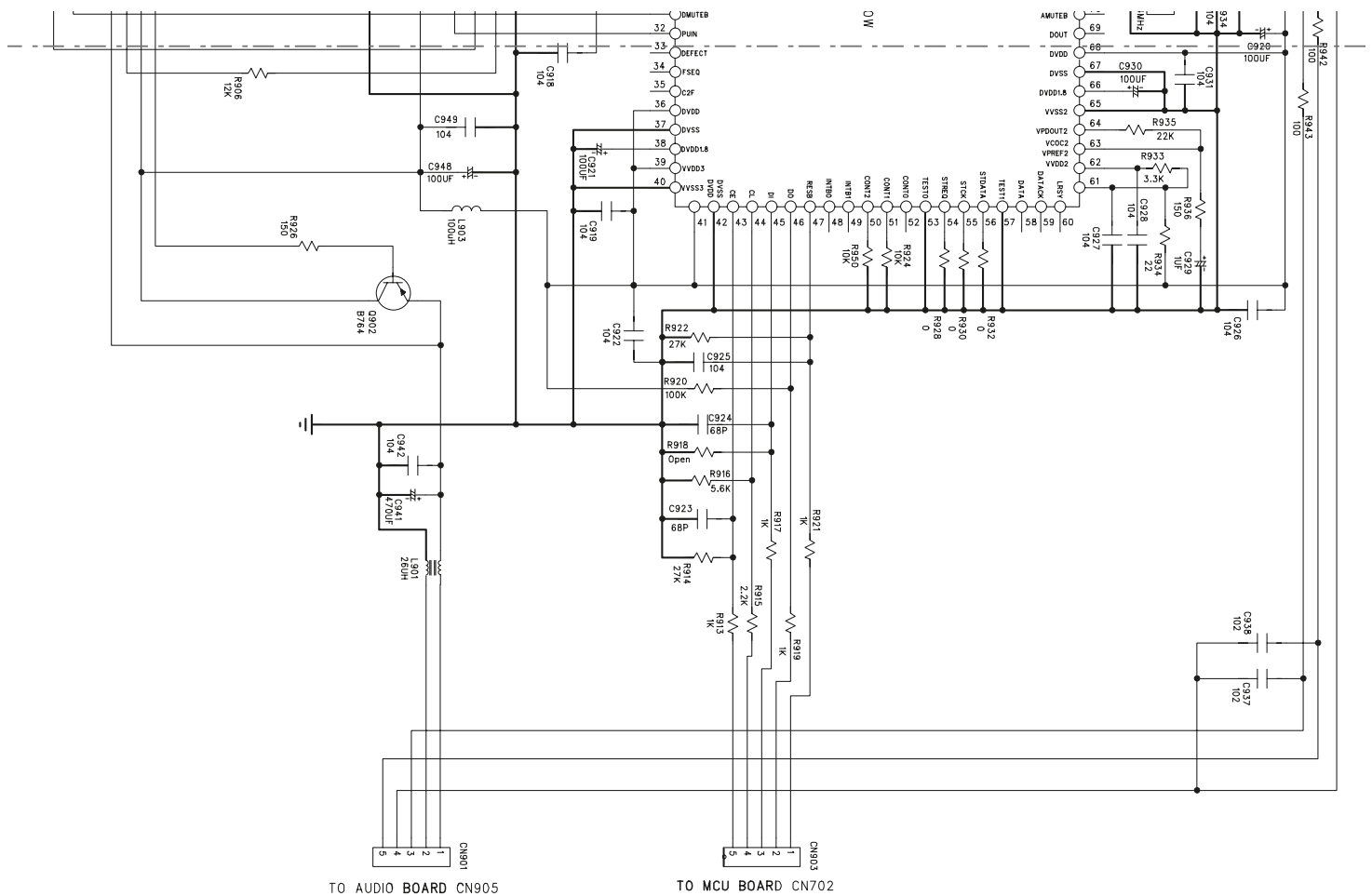
SHARP CORPORATION

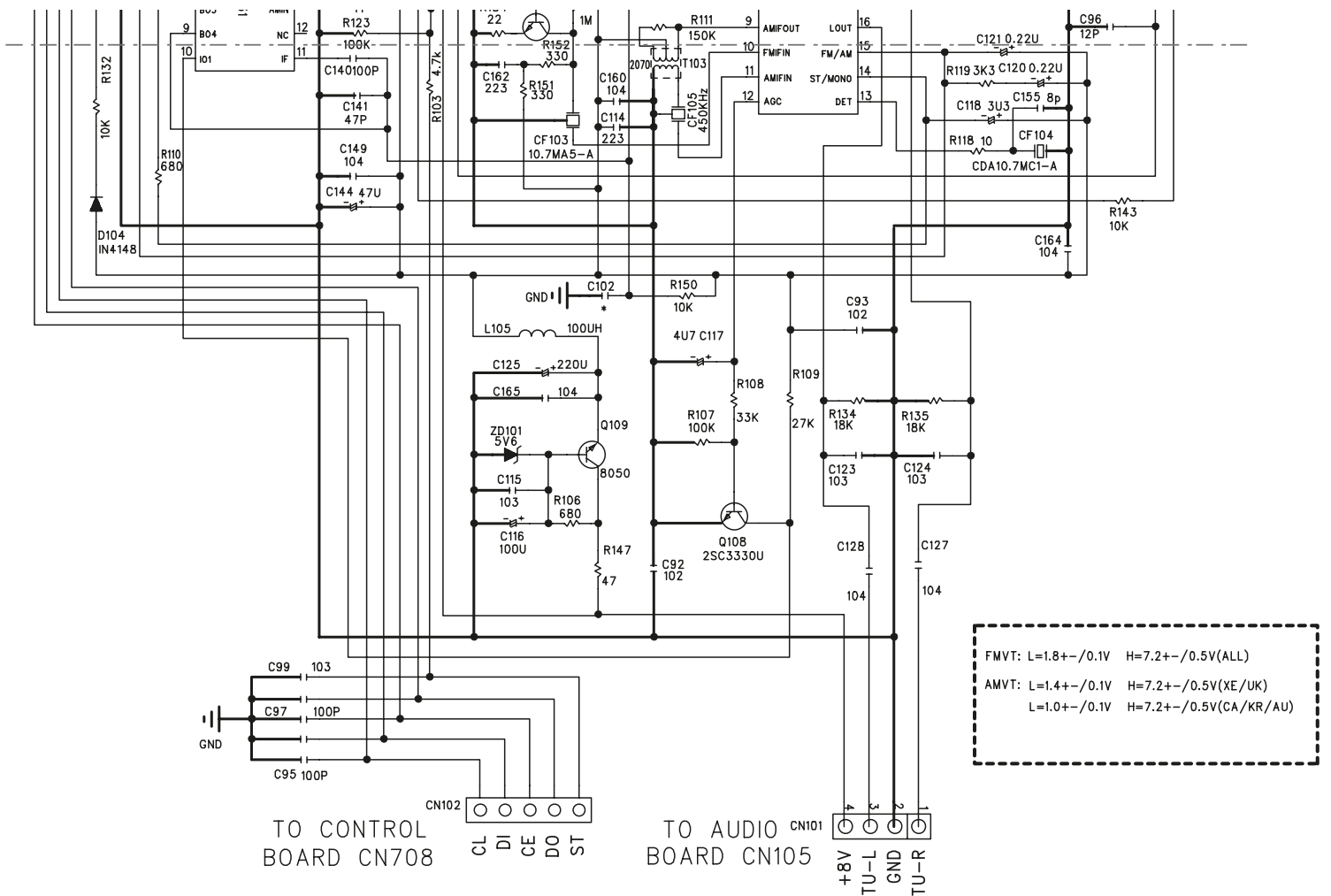


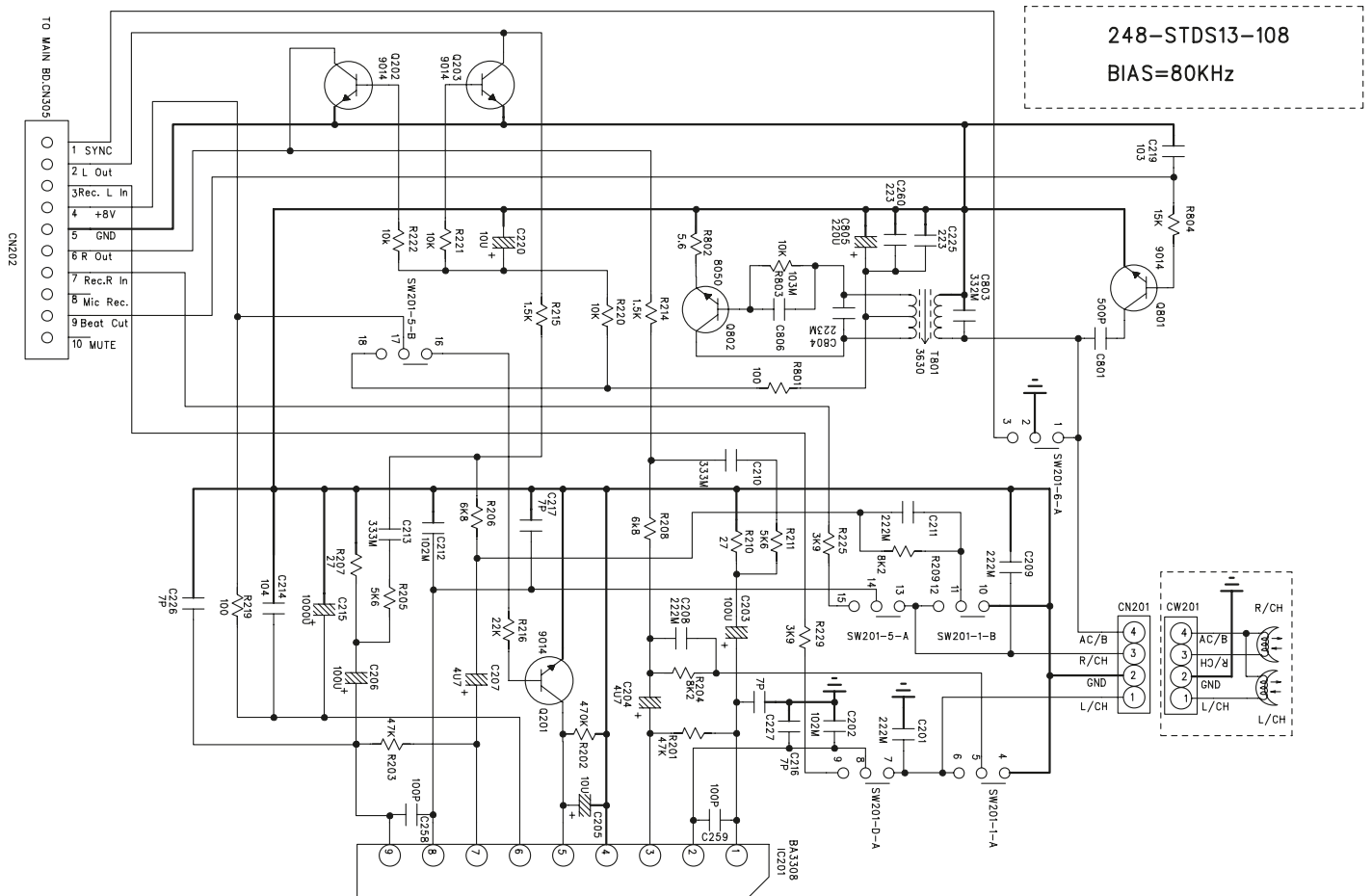


- 1).DISCONNECT POWER CORD BEFORE SERVING
- 2).COMPONENTS MARKED WITH HAVE CRITICAL CHARACTERISTICS. ONLY REPLACE WITH THE COMPONENT OF THE SAME TYPE NUMBER
- 3).SUBJECT TO CHANGE WITHOUT NOTICE









Special notes

WARNINGS:

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

Note:

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to the relevant laws in your country.

CAUTION:

- This product is classified as a CLASS 1 LASER product.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

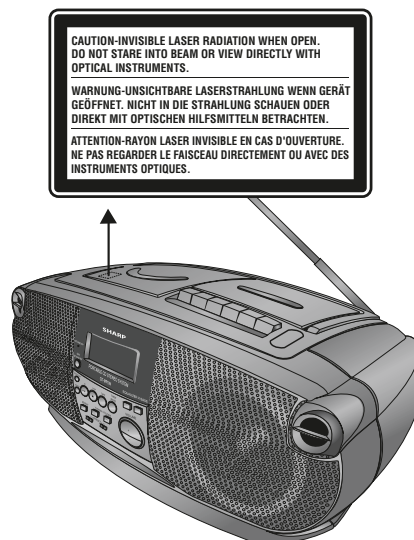
Laser Diode Properties

Material: AlGaAs

Wavelength: 790 nm

Emission Duration: continuous

Laser Output: max. 0.6 mW

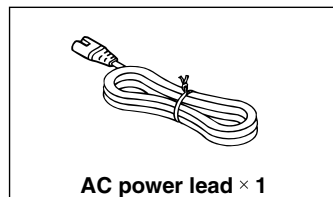


Special Note

Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit <http://mp3licensing.com>.
MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Accessory

Please confirm that the following accessory is included.



AC power lead × 1

Note:

Only the above accessory is included.

Contents

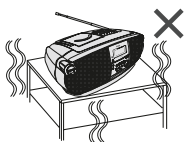
QT-MP5W

	Page
■ General Information	
Precautions	3
Controls and indicators	4 - 5
■ Preparation for Use	
Operation with AC power	6
Operation with batteries	6
■ Basic Operation	
General control	7
■ CD or MP3/WMA disc Playback	
Listening to a CD or MP3/WMA disc	8 - 9
Advanced CD or MP3/WMA disc playback	10 - 12
MP3/WMA folder mode (only for MP3/WMA files)	13
■ Radio	
Listening to the radio	14 - 15
Setting the FM/AM interval	16
■ Tape Playback	
Listening to a cassette tape	17
■ Tape Recording	
Recording to a cassette tape	18 - 19
■ Advanced Feature	
Enhancing your system	19
■ References	
Troubleshooting chart	20 - 21
Maintenance	21
Specifications	22

Precautions

■ General

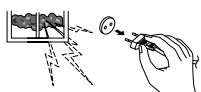
- Use the unit on a firm, level surface free from vibration.



- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.



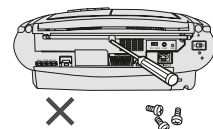
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.



- Hold the AC power lead by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- The AC power plug is used as disconnect device and shall always remain readily operable.



- Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.



- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).
- The apparatus is designed for use in moderate climate.

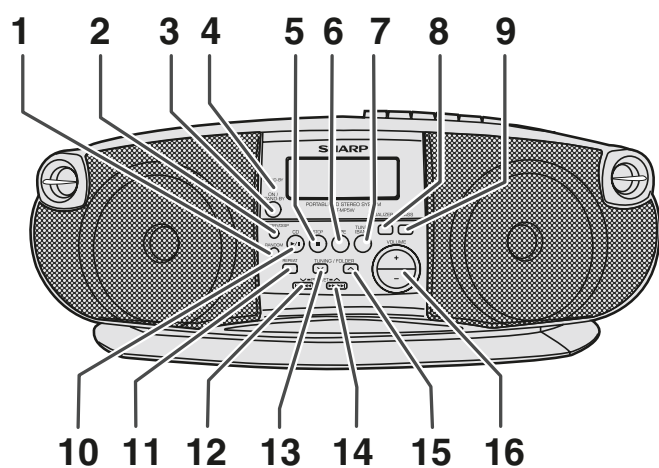
Warning:

The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.

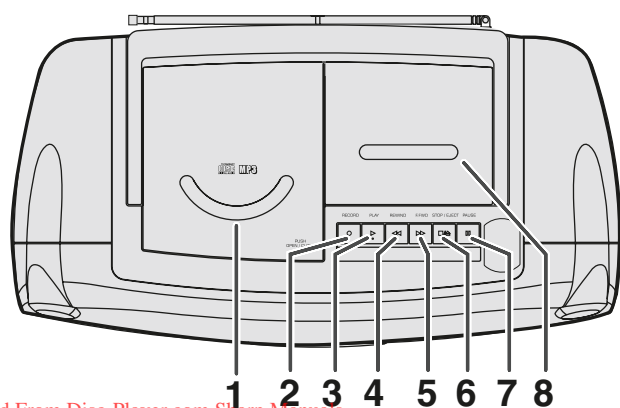
Controls and indicators



■ Front panel

Reference page

1. Random Button	10
2. Memory/Display Button	11, 12
3. On/Stand-by Button	7
4. Stand-by Indicator	7
5. CD Stop Button	9
6. Tape Button	17
7. Tuner (Band) Button	14
8. Equaliser Button	7
9. Extra Bass Button	7
10. CD Play/Pause Button	8
11. CD Repeat Button	10
12. Fast Reverse/Track Down/Tuner Preset Down Button	9, 14
13. Tuner Tuning Down/Folder Down Button	14
14. Fast Forward/Track Up/Tuner Preset Up Button	9, 14
15. Tuner Tuning Up/Folder Up Button	14
16. Volume Up and Down Button	7

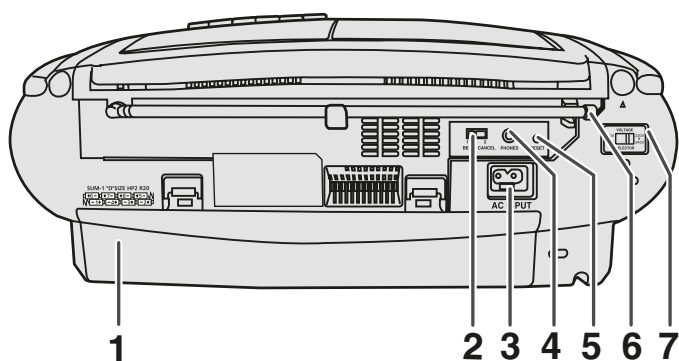


■ Top panel

Reference page

1. CD Compartment	8
2. Tape Record Button	18, 19
3. Tape Play Button	17
4. Tape Rewind Button	17
5. Tape Fast Forward Button	17
6. Tape Stop/Eject Button	17, 18, 19
7. Tape Pause Button	17, 18
8. Cassette Compartment	17, 18

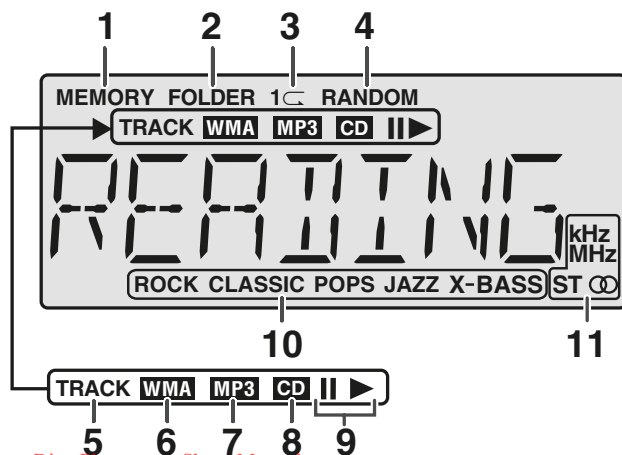
Controls and indicators (continued)



■ Back panel

Reference page

1. Battery Compartment	6
2. Beat Cancel Selector	14
3. AC Input Socket	6
4. Headphone Socket	19
5. Reset Switch	21
6. FM/AM Aerial	15
7. Voltage selector	6

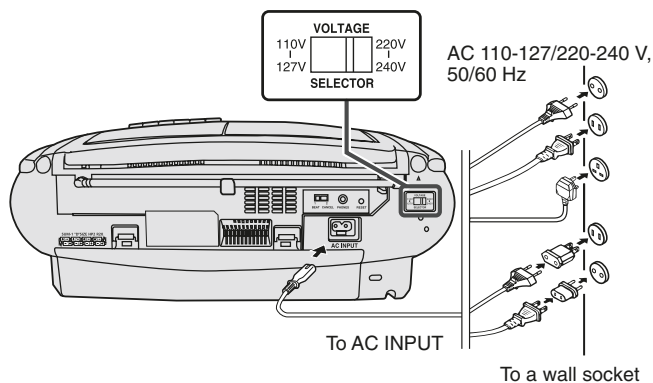


■ Display

Reference page

1. Memory Indicator	11, 12
2. Folder Indicator	10, 13
3. Repeat mode Indicator	10
4. Random Indicator	10
5. Track Indicator	10, 11, 13
6. WMA Indicator	13
7. MP3 Indicator	10, 13
8. CD Indicator	10, 11
9. Disc Play/Pause Indicator	9
10. Equaliser modes Indicators	7
11. Tuner Stereo Indicator	14

Operation with AC power



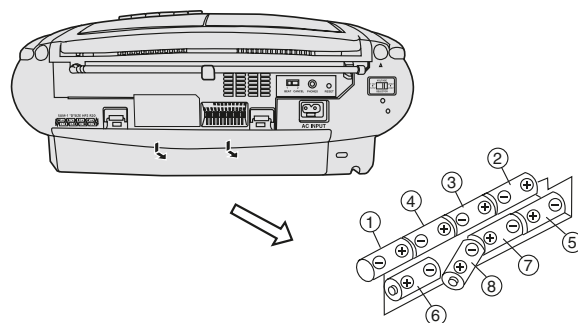
Connect the AC power lead to the AC power input socket, then connect the AC power lead plug to the wall socket.

Notes:

- If the unit will not be used for a long period of time, remove the AC power lead from the wall socket.
- Connection of the AC power lead to the unit disconnects the batteries.
- Never use a power lead other than the one supplied. It may cause an electric shock or fire.

Operation with batteries

QT-MP5W



- 1 **Disconnect the AC power lead, and remove the battery compartment cover.**
- 2 **Insert 8 "D", size batteries (UM/SUM-1, R20, HP-2 or similar) into the battery compartment.**
 - Insert the batteries according to the direction indicated on the rear panel.
 - When inserting or removing the batteries, push them towards the ⊖ battery terminals.
 - Installing the batteries incorrectly may cause the unit to malfunction.
- 3 **Replace the battery compartment cover.**

Battery replacement:

Replace the batteries when they become weak and/or recording or playback is impaired. This may occur even though radio broadcasts are audible.

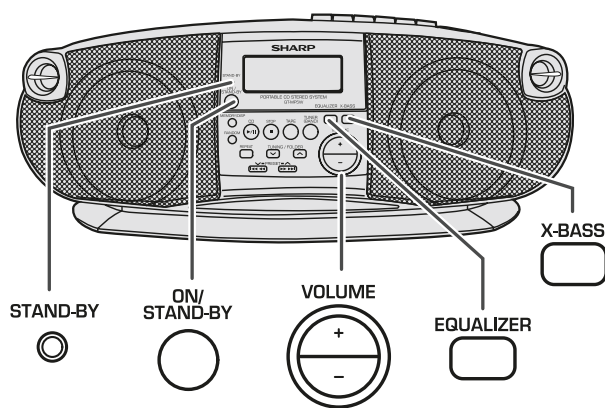
Notes:

- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if they are weak or if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.
- Batteries are not included.

Caution:

- Do not use rechargeable batteries (nickel-cadmium battery, etc.).

General control



■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

After use:

Press the ON/STAND-BY button to enter the power stand-by mode. At STAND-BY mode, red led will lights up.

■ Auto power off function

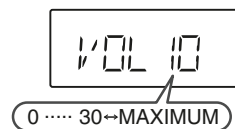
In the stop mode of CD operation, the main unit enters the stand-by mode after 10 minutes of inactivity.

■ Volume auto set-in

- If you turn off and on the main unit with the volume set to 16 or higher, the volume will starts at 16.
- If you turn off and on again with the volume level set to less than 16, it will turn on at the level set.

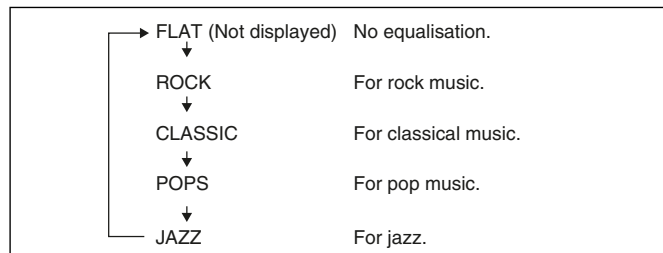
■ Volume control

Press the VOLUME (+ or -) button to increase or decrease the volume.



■ Equaliser

When the EQUALIZER button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER button repeatedly until the desired sound mode appears.



■ Extra Bass (X-BASS)

Press the X-BASS button to emphasise bass sound.

Listening to a CD or MP3/WMA disc

This system can play back a standard CD, CD-R/RW in the CD format and CD-R/RW with MP3 or WMA files, but cannot record on them. Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the device that was used for recording.

MP3:

MP3 is a form of compression. It is an acronym which stands for MPEG Audio Layer 3.

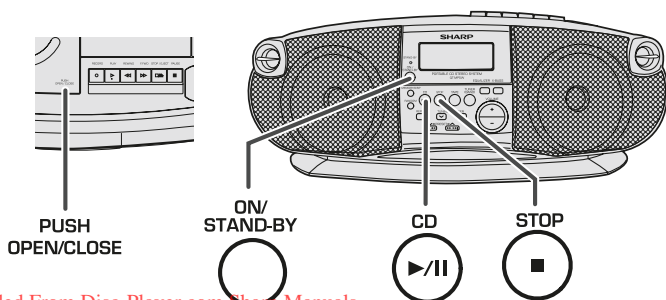
MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.

- This system supports MPEG 1 Layer 3, MPEG 2 Layer 3, and VBR files.
- During VBR file playback, time counter in the FL display may differ from its actual playback time.
- Bitrate which is supported by MP3 is 32 ~ 320 kbps.

WMA:

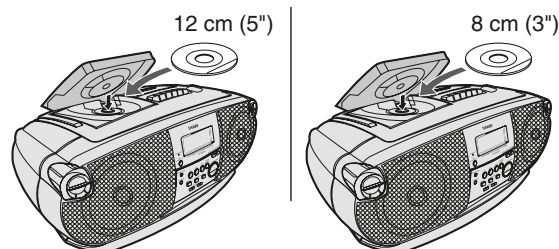
WMA files are Advanced System Format files that include audio files which are compressed with Windows Media Audio codec. WMA is developed by Microsoft as an audio format file for Windows Media Player.

- "MP3" and "WMA" indicator will light up after the unit reads information on an MP3 or WMA disc.
- Bitrate which is supported by WMA is 64 ~ 160 kbps.



■ Playback

- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the CD ► / || button.
- 3 Open the CD door by pushing the area marked "PUSH OPEN/CLOSE".
- 4 Place the disc on the spindle, label side up.
Be sure to place 8 cm (3") disc in the middle of the disc compartment.
- 5 Close the CD door by firmly pushing the right corner of it.
- 6 Press the CD ► / || button to start playback.



To stop playback:

Press the STOP ■ button.

To remove the discs:



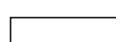

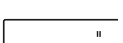









In the stop mode, press the PUSH OPEN/CLOSE portion on the CD door.

Caution:

- Do not place two discs in the spindle.
- Do not play discs with special shapes (heart- or octagon-shaped). It may cause malfunctions.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
- If a disc is damaged, dirty, or loaded upside down, the disc will not play back.

Listening to a CD or MP3/WMA disc (continued)

■ Various disc functions

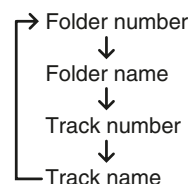
Function	Main unit	Operation
Play 		Press in the stop mode.
Stop 		Press in the playback mode.
Pause 		Press in the playback mode. Press the ► / button to resume playback from the paused point.
Track up/ Track down  	 	Press in the playback or stop mode. If you press the button in the stop mode, press the ► / button to start the desired track.
Fast forward/Fast reverse  	 	Press and hold down in the playback mode. Release the button to resume playback.

Note:

- Rewritable multi session discs which writing is not finished, can still be played.

■ To change the display (MP3 discs only)

- Whilst in the playback mode, press the MEMORY/DISP button. ID3 will on.
- Folder number, folder name, track number, track name will scroll through the display as follows:



- To display artist and album title, press again the MEMORY/DISP button. The information will display for once.
- To cancel the ID3 function, press the MEMORY/DISP button twice.

Notes:


- Title, Artist and Album name is displayed if it is recorded on the disc.
- MP3 ID3-Tag only support version 1.x.

Advanced CD or MP3/WMA disc playback

■ Repeat play and Random play


All tracks or a programmed sequence can be continuously repeated. The track on the disc can be played in random order automatically.

1 Whilst a disc is stop or playing, press the REPEAT button to Repeat 1.

REPEAT



2 Each time the button is pressed, the repeat play mode changes in the following order.
The repeat play mode changes as follows on CD.

REPEAT 1 REPEAT ALL NORMAL

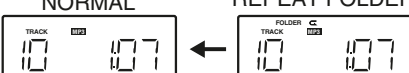


The repeat play mode changes as follows on MP3/WMA disc.



REPEAT 1 REPEAT ALL



NORMAL REPEAT FOLDER



3 Whilst a disc is stop or playing, press the RANDOM button to enter random play mode. To cancel random playback, press the button again.

RANDOM



Notes:

- If you press the **▶▶▶▶** button during random play, you can move to the track selected next by the random operation. On the other hand, the **◀◀◀◀** button does not allow you to move to the previous track. The beginning of the track being played will be located.
- In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)

Caution:

After performing repeat or random play, be sure to press the **STOP** button. Otherwise, the disc will play continuously.

Notes:

- This unit only supports "MPEG-1 Audio Layer-3" format. (Sampling Frequency is 32, 44.1, 48kHz)
- "MPEG-2 Audio Layer-3", "MPEG-2.5 Audio Layer-3" and MP1, MP2 format are not supported.
- Playback order for MP3 files may differ sometimes depending on the writing software used during file download.
- Bitrate which is supported by MP3 is 32~320 kbps, WMA is 64~160 kbps.
- For MP3/WMA files, please put ".MP3" ".WMA" extension. Files cannot be played back if there is no MP3/WMA extension.
- Playlists are not supported on this unit.
- This unit can display Folder Name or File Name up to 32 characters.
- This unit only supports MP3 ID3-Tag version 1.x.
- The display playback time may not be displayed correctly when playing back a variable bitrate file.
- Time display cannot be changed by the MEMORY/DISP button.
- Title name and artist name can be displayed by pressing the MEMORY/DISP button during file playback or pause mode.
- WMA meta tag also supports title, artist and album name which are recorded in WMA files.
- Copyright protected WMA files cannot be played back.

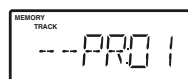
Advanced CD or MP3/WMA disc playback (continued)

■ Programmed play

You can choose up to 32 selections for playback in the order you like.

- 1** Whilst in the stop mode, press the MEMORY/DISP button to enter the programming save mode.

MEMORY/DISP

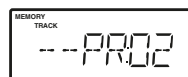


- 2** Select a track by pressing the ◀◀ ◀◀ or ▶▶ ▶▶ button.



Selected track number

- 3** Press the MEMORY/DISP button to save the track number.



- 4** Repeat steps 2 - 3 for other tracks and programmed number will automatically increase. Up to 32 tracks can be programmed.

"FULL" indicator will display on LCD after programmed up to 32 tracks.

If you make a mistake, the programmed tracks can be cleared by pressing the STOP ■ button, "CLEAR" indicator will display.

- 5** Press the CD ► / || button to start playback.

- 6** Press the STOP ■ button.
The total number of memory will appear.



- 7** Press the CD ► / || button to start playback.

To cancel the programmed play mode:

Whilst in the stop mode and the "MEMORY" indicator is lit, press the STOP ■ button. The "MEMORY" indicator will disappear and all the programmed contents will be cleared.

Adding track to the programme:

If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow step 1 - 3 to add tracks. The new track will be stored after the last track of the original programme.

To check which tracks are programmed:

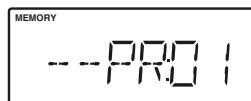
Whilst the unit is stopped in the programmed play mode, press the ◀◀ ◀◀ or ▶▶ ▶▶ button.

Notes:

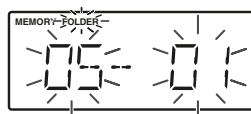
- When you open the CD compartment, the programme is automatically cancelled.
- After you change the function from CD to another, the programmed selections will be cleared.
- During programme operation, random play is not possible. If random button is press, this will cancelled the programmed play mode.

■ Programmed play (Folder mode)

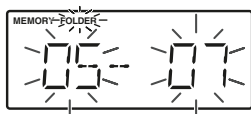
- 1** Whilst in the stop mode, press the MEMORY/DISP button to enter the programming save mode.



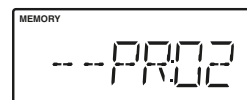
- 2** Press the TUNING/FOLDER (∨ or ∧) button to select the desired folder.



- 3** Press the ◀◀ or ▶▶ button to select the desired tracks.



- 4** Press the MEMORY/DISP button to save the track number.



- 5** Repeat steps 2 - 5 for other folder/tracks. Up to 32 tracks can be programmed.

- 6** Press the CD ► / || button to start playback.

MP3/WMA folder mode (only for MP3/WMA files)

To playback MP3/WMA (Windows Media Audio) file

There are many music sites on the internet that you can download MP3/WMA (Windows Media Audio) music files. Follow the instructions from the website on how to download the music files. You can then playback these downloaded music files by burning them to a CD-R/RW disc.

- Your downloaded song/files are for personal use only. Any other usage of the song without owner's permission, is against the law.

■ About folder playback order

If MP3/WMA files are recorded in several folders, total number of folder and track number will be display.

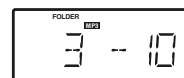
The folder and file order information which is recorded on the disc depends on the writing software. There maybe possibilities that this unit will playback the files not according to our expected playback order.

■ Procedure to playback MP3/WMA disc

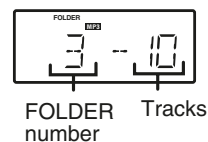
To playback CD-R/RW.

1 Press the OPEN button, and load a MP3/WMA disc.

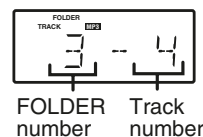
- After disc is loaded, the disc info will be displayed.



2 Whilst in the stop or playback mode, select the desired folder by pressing the FOLDER (∨ or ^) button.

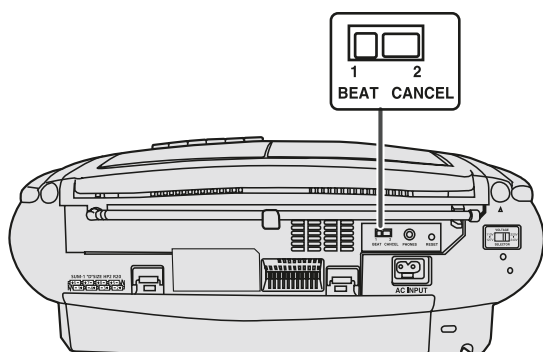
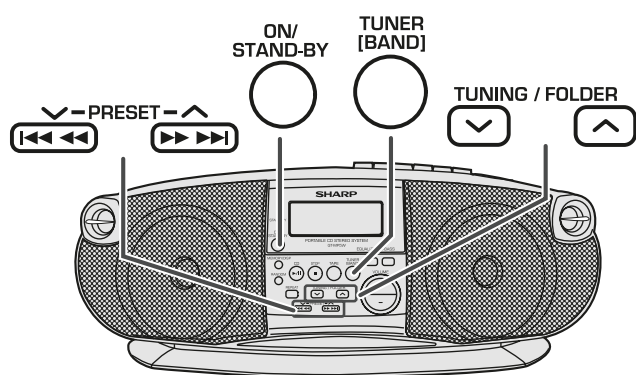


3 Select the desired track by pressing the <<< or >>> button.



4 Press the CD ► / || button. Playback will start.

Listening to the radio



Note:

This product can receive FM stereo/FM monaural and AM monaural broadcast. AM stereo broadcasts will not be played in stereo.

Tuning

- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).
- 3 Press the TUNING (∨ or ∧) button to tune in to the desired station.

Manual tuning:

Press the TUNING button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING button again.

To receive an FM stereo transmission:

Press the TUNER (BAND) button to display the "ST" indicator.

- "∞" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the TUNER (BAND) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

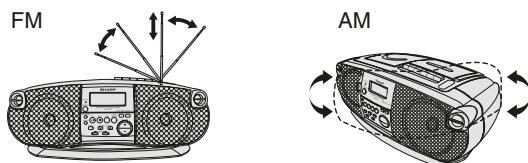
FM stereo receiving indicator



FM stereo mode indicator

Listening to the radio (continued)

Aerial adjustment:



Beat cancel switch:

- If a whistling noise occurs when recording from an FM or AM station, set the BEAT CANCEL switch to 1 or 2, whichever gives the best reception.

■ Memorising a station

You can store 20 FM and 10 AM stations in memory and recall them at the push of a button. (Preset tuning)

1 Perform steps 1 - 3 in "Tuning" on page 14.

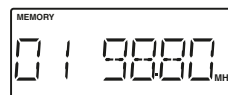
2 Press the MEMORY/DISP button to enter the preset tuning saving mode.



3 Within 10 seconds, press the PRESET (∨ or ∧) button to select the preset channel number.

Store the stations in memory, in order, starting with preset channel 1.

4 Within 10 seconds, press the MEMORY/DISP button to store that station in memory.



If the "MEMORY" and preset number indicators disappear before the station is memorised, repeat the operation from step 2.

5 Repeat steps 1 - 4 to set other stations, or to change a preset station.

When a new station is stored in memory, the station previously memorised will be erased.

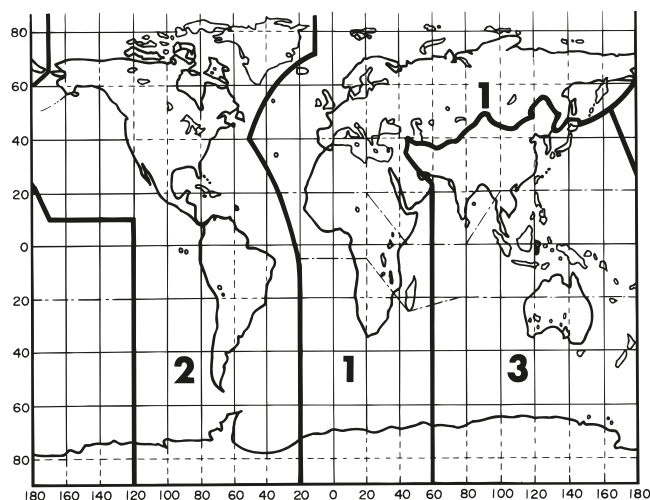
Note:

The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead disconnection.

■ To recall a memorised station

Press the PRESET (∨ or ∧) button to select the desired station.

Setting the FM/AM interval



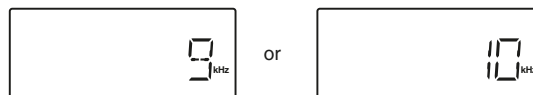
The International Telecommunication Union (ITU) has established that member countries should maintain either a 100 kHz or 50 kHz interval between broadcasting frequencies of FM stations and 10 kHz or 9 kHz for AM stations. The illustration shows the 50/9 kHz zones (regions 1 and 3), and the 100/10 kHz zone (region 2).

This product is not equipped with a span selector. However, it will be adjusted to a 50 kHz FM (9 kHz AM) interval when shipped from the factory.

Before using the unit, be sure to set it to the FM/AM tuning interval (span) used in your area.

To change the FM/AM tuning interval:

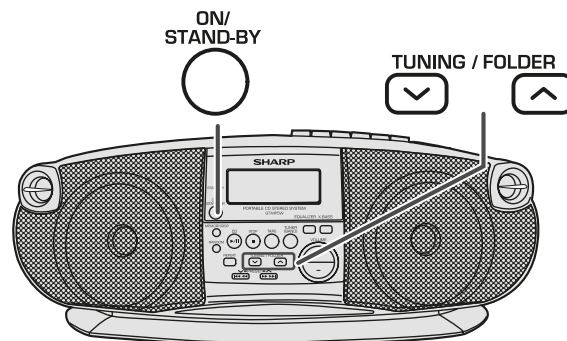
- 1 During Standby mode, press ON/STAND-BY and FOLDER UP (^) buttons for 2 seconds.



- 2 The display will appear and the new setting is activated.

Caution:

- When the unit is left for a few hours after the span has been switched and the AC power lead disconnected, the FM span will be automatically returned to 50 kHz (AM span to 9 kHz). If this happens, set the span again.
- When the span is switched, all the memorised stations will be cancelled.

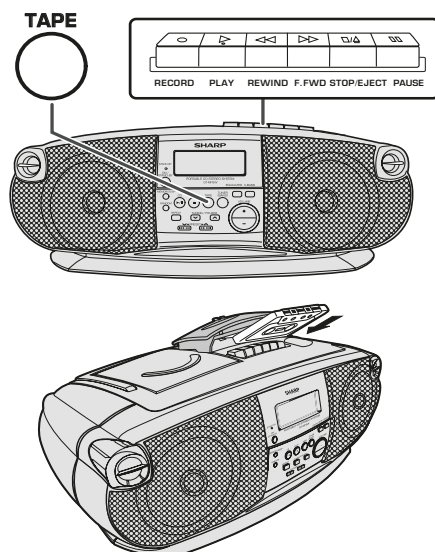
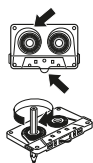


Listening to a cassette tape

■ Cassette Tape

Before playback:

- For playback, use normal or low-noise tapes for the best sound. (Metal or CrO₂ tapes are not recommended.)
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.



- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the TAPE button.
- 3 Open the cassette compartment by pushing the STOP/EJECT ■ / ▲ button.
- 4 Load a cassette into the cassette compartment with the side to be played facing up.
- 5 Press the PLAY ► button.
- 6 To advance the tape, press the STOP/EJECT ■ / ▲ button, then press the F.FWD ►► button. To rewind, press the STOP/EJECT ■ / ▲ button, then press the REWIND ◄◄ button.

To interrupt playback:

Press the PAUSE || button during playback.
Press the PAUSE || button again to resume playback.

To stop playback:

Press the STOP/EJECT ■ / ▲ button.

Precautions:

- Be sure not to press the PLAY ► and REWIND ◄◄ buttons simultaneously, or the tape will become damaged.
- Before changing from one tape operation to another, press the STOP/EJECT ■ / ▲ button.
- Do not press the PAUSE || button whilst the fast forward or rewind operations are in progress. The F.FWD ►► or REWIND ◄◄ button will not be released when the tape end is reached. Once this occurs, press the STOP/EJECT ■ / ▲ button.

Notes:

- Tape play button will automatically released when the end of the tape has been reached.
- Fast forward or rewind button cannot automatically released when the end of the tape has been reached. Make sure to press the STOP/EJECT ■ / ▲ button when the end of the tape has been reached.

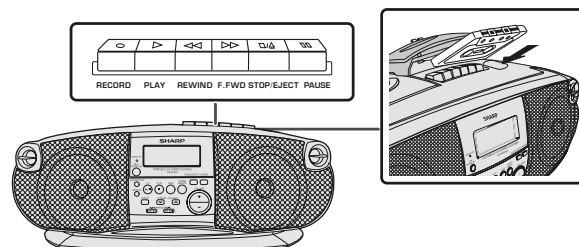
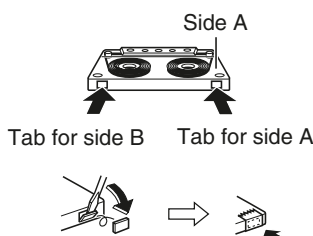
Recording to a cassette tape

Before recording:

- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- The volume and sound controls can be adjusted with no effect on the recorded signal (Variable Sound Monitor).
- **For recording, use only normal tapes. Do not use metal or CrO₂ tapes.**

Erase-prevention tab of cassette tapes:

- When recording on a cassette tape, make sure that the erase-prevention tabs are not removed. Cassettes have removable tabs that prevent accidental recording or erasing.
- To protect the recorded sound, remove the tab after recording. Cover the tab hole with adhesive tape to record on the tape without the tab.



■ Recording from the radio

- 1 Set the FUNCTION switch to TUNER.**
- 2 Set the BAND SELECTOR switch to FM or AM.**
- 3 Tune in to the station to be recorded.**
- 4 Load a blank cassette into the cassette compartment with the side to be recorded on facing up.**
- 5 Press the PAUSE II button.**
- 6 Press the RECORD ● button.**
- 7 Press the PAUSE II button again to begin recording.**

To stop recording:

Press the STOP/EJECT ■ / ▲ button.

Note:

Play and record buttons will automatically released when the end of tape has been reached.

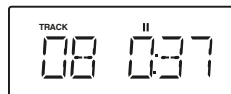
Beat cancel switch:

If a whistling noise occurs when recording from an FM or AM station, set the BEAT CANCEL switch to 1 or 2, whichever gives the best reception.

Recording to a cassette tape (continued)

■ Recording from CD

- 1 Set the **FUNCTION** switch to **CD**.
- 2 Load a blank cassette into the cassette compartment with the side to be recorded on facing up.
- 3 Press the **RECORD** ● button, the recording will begin.
- 4 When press the **STOP/EJECT** ■ / ▲ button during recording, display will appear, but CD still spinning.



- 5 To stop the CD spinning press the **STOP** ■ button.

■ Programmed track recording from CD

- 1 Select the memories track you want to record.
- 2 After memories the selected track, press the **RECORD** ● button. The recording for memory track will begin until end.
- 3 After recording is completed, disc will stop to rotate, but tape still rotating.
- 4 Press the **STOP/EJECT** ■ / ▲ button to stop recording.

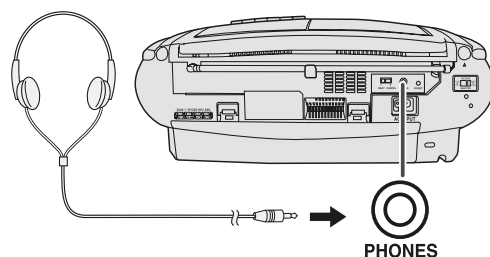
Note:

- Cassette play and record buttons will automatically release when the end of tape has been reached.

Enhancing your system

■ Headphone

- Before plugging in or unplugging the headphones, make sure the volume level is reduced.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- When headphones are connected, the speakers are disconnected automatically. Adjust the **VOLUME** control for desired volume.



Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.

If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● When a button is pressed, the unit does not respond.	● Set the unit to the power stand-by mode and then turn it back on.
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected?

■ CD player

Symptom	Possible cause
● Playback does not start.	● Is the disc loaded upside down?
● Playback stops in the middle or is not performed properly.	● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Tuner

Symptom	Possible cause
● The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer? ● Is the FM aerial placed properly? Move the aerial away from the AC power lead if it's located near-

■ Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality.	● Is it a normal tape? (You cannot record on a metal or CrO ₂ tape.)
● Cannot erase completely.	
● Sound skipping.	● Is there any slack?
● Cannot hear treble.	● Is the tape stretched?
● Sound fluctuation.	● Are the capstan, pinch roller, or head dirty?
● Cannot remove the tape.	● If a power failure occurs during playback, the head remain engaged with the tape. Do not open the compartment with great force.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, etc.).

Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

- 1 Set the unit to the stand-by mode and turn the power on again.
- 2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Troubleshooting chart (continued)

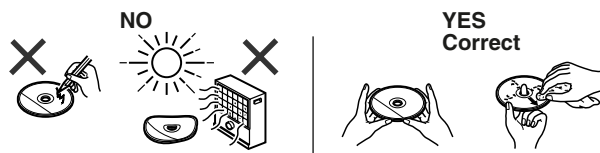
■ Before transporting the unit

Remove CD from the unit. Make sure there is no CD in the disc compartment. Then, set the unit to the power stand-by mode. Carrying the unit with disc left inside can damage the unit.

■ Care of compact discs

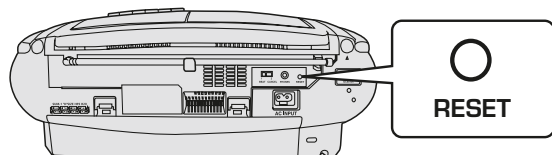
Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.

- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



■ Clearing all the memory (reset)

- 1 Press the ON/STAND-BY button to enter the power stand-by mode.
- 2 Push the "RESET" switch.



Caution:

This operation will erase all data stored in memory including tuner preset and CD programme.

Maintenance

■ Cleaning the cabinet

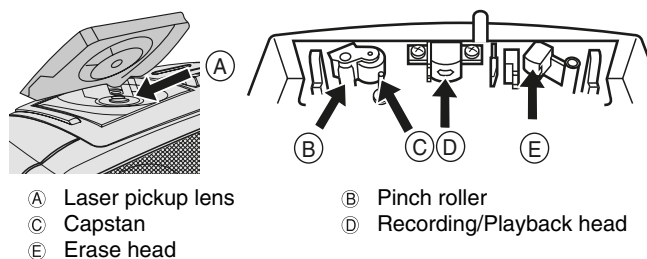
Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

■ Cleaning the lens and tape-handling parts

- Do not touch the laser pickup lens, if finger prints or dust accumulate on the pickup, clean it gently with a dry cotton swab.
- Dirty head, capstan or pinch roller can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- When cleaning the head, pinch roller, etc., unplug the unit which contains high voltages.
- After long use, the deck's head and capstan may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.



Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 110 - 127/220 - 240 V, 50/60 Hz DC12V ["D" size (UM/SUM-1, R20 or HP-2) battery x 8]
Power consumption	Power on: 15 W
Output power	MPO: 5.4 W (2.7 W + 2.7 W) (AC OPERATION, 10% T.H.D) RMS: 4 W (2 W + 2 W) (DC OPERATION, 10% T.H.D)
Speaker type	2 way speaker system 10 cm (4") - 8 ohms x 2 - Speaker 4 cm (1 - 3/5") - 8 ohms x 2 - Tweeter
Dimensions	Width: 410 mm (16-1/4") Height: 165 mm (6-1/2") Depth: 240 mm (9-1/2")
Weight	3.4 kg (7.5 lbs.) without battery

■ Radio

Frequency range	FM: 88.0 - 108.0 MHz AM: 531 - 1602 kHz
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■ Tape recorder

Frequency response	80 - 8000 Hz (Normal tape)
Signal/noise ratio	40 dB
Wow and flutter	0.3% (WRMS)
Motor	DC 9 V electric governor
Bias system	AC bias
Erase system	Magnet erase

■ CD player

Type	Compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	60 - 20,000 Hz

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