

# SHARP

## GX-M10H

### PORTABLE CD STEREO SYSTEM

#### OPERATION MANUAL

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.



iPhone not included.



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#### General control

**Auto resume function**  
 The auto resume function will resume the last function and playback should there be a power failure or the AC power lead becomes disconnected. However, CD/MP3 programme and random mode are not powered.

**Equalizer**  
 When the EQ(X-BASS) button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQ(X-BASS) button repeatedly until the desired sound mode appears.

**FLAT** No equalisation.  
**ROCK** For rock music.  
**VOCAL** Vocals are enhanced.  
**HI/POP** For hip hop music.  
**SALSA** For salsa music.  
**REGGAE** For reggae music.

**Muting**  
 The volume is muted temporarily when pressing the MUTE button on the remote sensor for more than 3 seconds.

**Display and Subwoofer light up control**  
 The display and subwoofer light can be changed.  
 1 Press DEMO/DIMMER button for more than 3 seconds. The current mode will be displayed.  
 2 Within 5 seconds, press DEMO/DIMMER button to change the mode.  
 Press DEMO/DIMMER button to change the mode.  
 MODE 1 (Display backlight on and Subwoofer light off)  
 MODE 2 (Display backlight off and Subwoofer light on)  
 MODE 3 (Display backlight on and Subwoofer light on)  
 During battery/DC operation, the unit will be set to Demo mode with display and subwoofer light in MODE 2 to reduce the battery power consumption.  
 Press the DISPLAY button to light up the display backlight for a few seconds.

**Volume auto fade-in**  
 If you turn off and on the main unit with the volume set to 27 or higher, the volume starts at 15 and fades in to the last set level.

**Volume control**  
 Press VOLUME +/- buttons (on main unit) or VOL +/- (on remote control) to increase or decrease the volume.

**Direct key power on function**  
 When you press any of the following buttons, the unit turns on.  
 • Press CD +/- on the main unit or the remote control selected function is activated.  
 • TUNER/AUDIO IN on the main unit or last tuner or audio function is activated.  
 • TUNER/AUDIO IN on the remote control: the unit turns on with the selected function activated.

**Auto power off function**  
 The main unit will enter the stand-by mode when iPod, iPod, iPhone, digital or microphone (is not connected) after 15 minutes of inactivity during:  
 • Stand-by mode.  
 • Auto In: No detection of input signal.  
 • CD: In the stop mode or no disc.  
 • USB: No data transfer.  
 Note: However, if iPod or iPhone is docked, the unit will begin charging. "iPod CHARGING" will be displayed.

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

**Various disc functions**

Function	Main unit	Remote control	Operation
Play	[Play]	[Play]	Press in the stop mode.
Stop	[Stop]	[Stop]	Press in the playback mode.
Pause	[Pause]	[Pause]	Press in the playback mode. Press the button to resume playback from the paused point.
Track up/down	[Track Up/Down]	[Track Up/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/reverse	[Fast Forward/Reverse]	[Fast Forward/Reverse]	Press and hold down the button in the playback mode to resume playback.

**Advanced CD or MP3/WMA disc playback**

**Direct track search**  
 By using the Numeric buttons, the desired tracks on the current disc can be played.  
 Use the Numeric buttons on the remote control to select the desired track while playing the selected disc.  
 • The Numeric buttons allow you to select up to number 9.  
 • When selecting number 10 or higher, use the "10+" button.  
 A. For example, to choose 13  
 1 Press the "10+" button once.  
 2 Press the "3" button.  
 B. For example, to choose 130  
 1 Press the "10" button twice.  
 2 Press the "1" button.  
 3 Press the "0" button.  
 4 Press the "3" button.

**Repeat play**  
 Press the PLAY MODE button repeatedly until "REP ONE" appears. Press the CD +/- button.

**To repeat all tracks**  
 Press the PLAY MODE button repeatedly until "REP ALL" appears. Press the CD +/- button.

**To repeat desired tracks**  
 Perform steps 1 - 5 in "Programmed play" section on page 8 and then press the PLAY MODE button repeatedly until "REP ALL" appears. Press the CD +/- button.

**To cancel repeat play**  
 Press the PLAY MODE button repeatedly until "NORMAL" appears. Press the CD +/- button.

**Caution:**  
 After performing repeat play, be sure to press the DEMO/DIMMER/ button. Otherwise, the disc will play continuously.

#### Advanced CD or MP3/WMA disc playback

**Random play**  
 The tracks on the disc can be played in random order automatically.

**Random play all tracks**  
 Press and hold PLAY MODE button on the remote control until "RANDOM" appears. Press the CD +/- button.

**To cancel random play**  
 Press the PLAY MODE button again. "RDM" indicator will disappear.

**Programmed play (CD)**  
 You can choose up to 32 selections for playback in the order you like.

1 Whilst in the stop mode, press the MEMORY button on the remote control to enter the programming save mode.  
 2 Press the numeric button or [CD +/-] buttons on the remote control to select the track number.  
 3 Press the MEMORY button to save the track number.  
 4 Repeat steps 2 - 3 for other tracks. Up to 32 tracks can be programmed. If you want to check the programmed tracks, press the MEMORY button repeatedly. If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR button for more than 2 seconds.  
 5 Press the CD +/- button to start playback.

**Programmed play (MP3/WMA)**  
 1 Whilst in the stop mode, press the MEMORY button to enter the programming save mode.  
 2 Press the TUNING (v or v-) button on the remote control to select the track number.  
 3 Press the MEMORY button to save the folder and track number.  
 4 Repeat steps 2 - 3 for other folders/tracks. Up to 32 tracks can be programmed.  
 5 Press the CD +/- button to start playback.

**To cancel the programmed play**  
 Press the PLAY MODE button repeatedly until "MEM CLR" appears. The display will show "MEM CLR" and all the programmed tracks will disappear.

**Adding tracks to the programme**  
 If a programme has been previously stored, the "MEM" indicator will disappear. Press the MEMORY button. Then follow steps 2 - 3 to add tracks.

**Notes:**  
 • When a CD compartment door is opened, the programme is automatically cancelled.  
 • If you press the ONSTAND-BY button to enter the stand-by mode or change the function from CD to another, the programmed selections will be cleared.  
 • During the programme operation, random play is not possible.

#### Listening to the radio (continued)

**Memorising a station**  
 You can store 40 FM stations in memory and recall them at the push of a button. (Preset tuning)  
 1 Perform steps 1 - 3 in "Tuning".  
 2 Press the MEMORY button. Store the station in memory.  
 3 Within 30 seconds, press the PRESET (v or v-) button to select the preset number. Store the station in memory.  
 4 Within 30 seconds, press the MEMORY button to store that station in memory. If the "MEM" indicator and preset number disappear before the station is memorised, repeat the operation from step 2.  
 5 Repeat steps 1 - 4 to set other stations in the memory; the preset station number for a station other than an RDS station will be erased.

**Recall a memorised station**  
 The backup function protects the memorised stations for a few days should there be a power failure or AC power lead become disconnected.

**To scan the preset stations**  
 Press the PRESET (v or v-) button for more than 0.5 seconds. The preset number will flash and the programmed stations will be tuned in sequentially for 5 seconds each.

**To erase entire preset memory**  
 1 Press the ONSTAND-BY button to enter the stand-by mode.  
 2 Press the PRESET (v or v-) button for more than 0.5 seconds. The "TUNCLERR" indicator will appear.

**To recall a memorised station**  
 Press the ONSTAND-BY button to enter the stand-by mode.  
 Press the PRESET (v or v-) button for more than 0.5 seconds. The "TUNCLERR" indicator will appear.

**Information provided by RDS**  
 Each time the RDS DSP button is pressed, the display will switch as follows:

**To scan the preset stations**  
 Press the PRESET (v or v-) button for more than 0.5 seconds. The preset number will flash and the programmed stations will be tuned in sequentially for 5 seconds each.

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 1 Press the ONSTAND-BY button to enter the stand-by mode.  
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 1 Press the ONSTAND-BY button to enter the stand-by mode.  
 2 Press the PRESET (v or v-) button for more than 0.5 seconds. The "TUNCLERR" indicator will appear.

#### Using the Radio Data System (RDS) (continued)

**Using the Radio Data System (RDS) (continued)**

**Notes for radio test:**  
 • The first 3 characters of the radio test will appear for 4 seconds and then they will scroll across the display.  
 • If you tune to an RDS station which is not broadcasting any radio test, "NO RT" will be displayed when you switch to the radio test page.  
 • Whilst radio test data is received or when the text contents change, "RT" will be displayed.

**To recall stations in memory**  
 Press the TUNER button on the remote control or TUNER/AUDIO IN button repeatedly on the main unit to select TUNER mode.  
 1 Press the TUNER button on the remote control.  
 2 Press the RDS button on the remote control.

**To specify programmed types and select stations (PTY system)**  
 You can search a station by specifying the programme type (news, sports, traffic programme, etc.) see page 10 from the stations in memory.  
 1 Press the TUNER button on the remote control or TUNER/AUDIO IN button repeatedly on the main unit to select TUNER mode.  
 2 Press the RDS button on the remote control.  
 3 Press the RDS button on the remote control.  
 4 Press the RDS button on the remote control.  
 5 Press the RDS button on the remote control.  
 6 Press the RDS button on the remote control.  
 7 Press the RDS button on the remote control.  
 8 Press the RDS button on the remote control.  
 9 Press the RDS button on the remote control.  
 10 Press the RDS button on the remote control.

**To stop the ASPM operation before it is complete**  
 Press the RDS button repeatedly until it is scanning for stations. If the station names are already stored in memory, they will be kept there.

**Notes:**  
 • Any station which has the same frequency as the one stored in memory will not be stored.  
 • If 40 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the stored stations.  
 • If a station has been stored in memory, "END" will appear for 30 seconds.  
 • If the RDS signals are very weak, station names may not be displayed.  
 • The same station name can be stored in different channels.  
 • On a particular station or during certain time periods, the station name may temporarily disappear.  
 • If you receive an RDS station whose signal is too weak, information like the station name will be displayed.

**Notes for RDS operation**  
 If any of the following events occur, it does not mean that the unit is faulty:  
 • "PS" and a station name appear alternately, and the unit does not operate properly.  
 • A particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.  
 • When you receive an RDS station whose signal is too weak, information like the station name will be displayed.  
 • "NO PS", "NO PTY" or "NO RT" will flash for about 5 seconds, and then the frequency will be displayed.

#### Listening to the radio (continued)

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 4 Within 30 seconds, press the MEMORY button to store that station in memory. If the "MEM" indicator and preset number disappear before the station is memorised, repeat the operation from step 2.  
 5 Repeat steps 1 - 4 to set other stations in the memory; the preset station number for a station other than an RDS station will be erased.

**Recall a memorised station**  
 The backup function protects the memorised stations for a few days should there be a power failure or AC power lead become disconnected.

**To scan the preset stations**  
 Press the PRESET (v or v-) button for more than 0.5 seconds. The preset number will flash and the programmed stations will be tuned in sequentially for 5 seconds each.

**To erase entire preset memory**  
 1 Press the ONSTAND-BY button to enter the stand-by mode.  
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 Press the TUNER button on the remote control or TUNER/AUDIO IN button repeatedly on the main unit to select TUNER mode.  
 1 Press the TUNER button on the remote control.  
 2 Press the RDS button on the remote control.

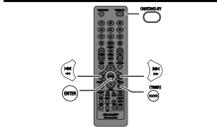
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 2 Press the RDS button on the remote control.  
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 4 Press the RDS button on the remote control.  
 5 Press the RDS button on the remote control.  
 6 Press the RDS button on the remote control.  
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 • A particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.  
 • When you receive an RDS station whose signal is too weak, information like the station name will be displayed.  
 • "NO PS", "NO PTY" or "NO RT" will flash for about 5 seconds, and then the frequency will be displayed.

## Setting the clock (Remote control only)



- In this example, the clock is set for the 24-hour (0:00) display.
- Press the ON/STANDBY button to turn the power on.
  - Press the CLOCK/TIMER button.
  - Within 10 seconds, press the ENTER button.
  - Press the **▲** or **▼** button to select 24-hour or 12-hour display and then press the ENTER button.
    - "00:00" → The 24-hour display will appear.
    - "AM 12:00" → The 12-hour display will appear.
    - "AM 00:00" → The 12-hour display will appear.
  - To adjust the hour, press the **◀** or **▶** button and then press the ENTER button. Press the **◀** or **▶** button once to advance the time by 1 hour. Hold it down to advance continuously.
  - To adjust the minutes, press the **◀** or **▶** button and then press the ENTER button. Press the **◀** or **▶** button once to advance the time by 1 minute. Hold it down to advance the time by 5 minutes interval.
- To confirm the time display:**  
Press the CLOCK/TIMER button. The time display will appear about 5 seconds.
- Note:**  
When power supply is restored after unit is plugged in again or after a power failure, confirm the clock. If required, reset the clock (from step 1) onwards.  
The clock will continue counting for a few hours should there be a power failure or the AC power lead becomes disconnected.
- To re-adjust the clock:**  
Perform "Setting the clock" from step 1. If the "CLOCK" does not appear in step 2, step 4 (for selecting the 24-hour or 12-hour display) will be skipped.  
To re-adjust the 24-hour or 12-hour display:  
1. Cause all the programmed contents. (Refer to "Factory reset, clearing all memory" on page 18 for details.)  
2. Perform "Setting the clock" from step 1 onwards.

- ### Timer and sleep operation (Remote control only)
- Timer playback:**  
The unit turns on and plays the desired source (CD, TUNER, USB, iPod, AUDIO IN) at a preset time.  
This unit has 2 types of timer: **ONCE TIMER** and **DAILY TIMER**.
- Once timer:**  
Once timer plays works for one time only at a preset time. ("ON" indicator)
- Daily timer:**  
Daily timer play works at the same preset time every day. For example, set the time as a wake-up call every morning ("DAILY" indicator).

## Timer and sleep operation (Remote control only) (continued)

- Using the once timer and daily timer in combination:**  
For example, use the once timer to listen a radio programme, and use the daily timer to wake up.
- Set the daily timer (pages 16 - 17).
  - Set the once timer (pages 16 - 17).
- 1 minute or more**
- Daily timer**      **Once timer**
- Start      Stop      Start      Stop
- Timer playback**
- Before setting timer:**
- Check that the clock is set to the correct time (refer left column). If it is not set, you cannot set the timer function.
  - For timer playback: Plug in USB or load discs or dock iPod to be played.
- Press the ON/STANDBY button to turn the power on.
  - Press and hold the CLOCK/TIMER button.
  - Within 10 seconds, press the **▲** or **▼** button to select "ONCE" or "DAILY", and press the ENTER button.
  - Within 10 seconds, press the **▲** or **▼** button to select "TIM OFF", and press the ENTER button.
  - For timer playback: Plug in USB or load discs or dock iPod to be played.
- 1 Press the ON/STANDBY button to turn the power on.**
- 2 Press and hold the CLOCK/TIMER button.**
- 3 Within 10 seconds, press the **▲** or **▼** button to select "ONCE" or "DAILY", and press the ENTER button.**
- 4 Within 10 seconds, press the **▲** or **▼** button to select "TIM SET", and press the ENTER button.**
- 5 To select the timer playback source (CD, TUNER, USB, iPod, AUDIO IN), press the **◀** or **▶** button.**
- When you select the timer, select a station by pressing the **◀** or **▶** button, and then press the ENTER button. If a station has not been programmed, "NOPRESET" will be displayed and timer setting will be cancelled.
- 6 Press the ENTER button to adjust the hour. Press the **◀** or **▶** button and then press the ENTER button.**
- 7 To adjust the minutes, press the **◀** or **▶** button and then press the ENTER button.**
- 8 Set the time to finish as in steps 6 and 7 above.**
- 9 Adjust the volume using the VOLUME control, and then press the ENTER button. Do not turn the volume up too high.**
- 10 Press the ON/STANDBY button to enter the power stand-by mode. The "TIMER" indicator lights up and the unit is ready for timer playback.**

- 11 When the preset time is reached, playback will start. The volume will increase gradually until it reaches the preset volume. The timer indicator will blink during timer playback.**
- 12 When the timer end time is reached, the system will enter the power stand-by mode automatically.**
- Once timer:**  
The timer will be cancelled.  
The timer operates at the same time every selected day. It will continue until the daily timer setting is cancelled. Cancel the daily timer when it is not in use.
- Daily timer:**  
When performing timer playback using another unit connected to the USB/iPod terminal or AUDIO IN socket, select "USB" or "AUDIO IN" in step 5. However, if the source is set to "USB", make sure there is no iPod or iPhone docked to the unit.  
This unit will turn on or enter the power stand-by mode automatically. However, the connected unit will not turn on or off. To stop the timer playback, follow step "Cancelling the timer setting" on page 17.

## Timer and sleep operation (Remote control only) (continued)

- Checking the timer setting:**
- Turn the power on and press and hold down the CLOCK/TIMER button.
  - Within 10 seconds, press the **▲** or **▼** button to select "ONCE" or "DAILY", and press the ENTER button.
  - Within 10 seconds, press the **▲** or **▼** button to select "TIM CALL", and press the ENTER button.
- Cancelling the timer setting:**
- Turn the power on and press and hold down the CLOCK/TIMER button.
  - Within 10 seconds, press the **▲** or **▼** button to select "ONCE" or "DAILY", and press the ENTER button.
  - Within 10 seconds, press the **▲** or **▼** button to select "TIM OFF", and press the ENTER button.
  - Within 10 seconds, press the **▲** or **▼** button to select "TIM SET", and press the ENTER button.
- Restoring the memorized timer setting:**  
The timer setting will be memorized once it is entered. To reuse the same setting, perform the following operations:
- Turn the power on and press and hold down the CLOCK/TIMER button.
  - Within 10 seconds, press the **▲** or **▼** button to select "ONCE" or "DAILY", and press the ENTER button.
  - Within 10 seconds, press the **▲** or **▼** button to select "TIM OFF", and press the ENTER button.
  - Press the ON/STANDBY button to enter the power stand-by mode.

- Sleep operation**
- The radio, compact disc, iPod, USB, and Audio in function can be turned off automatically.
- Play back the desired sound source.
  - Press the SLEEP button.
  - Within 5 seconds, press the Numeric button to set the time. (1 minute - 99 minutes)
  - "SLEEP" will appear.
  - The unit will enter the power stand-by mode automatically after the preset time has elapsed. The volume will be turned down 1 minute before the sleep operation finishes.
- To confirm the remaining sleep time:**  
Press the ON/STANDBY button while "SLEEP" is indicated. To cancel the sleep operation without setting the unit to the stand-by mode, proceed as follows:
- When "SLEEP" is indicated, press the SLEEP button.
  - Within 5 seconds, press the "0" button twice until "SLEEP 00" appears.

### ■ To use timer and sleep operation together

- Sleep and timer playback:**  
For example, you can fall asleep listening to the radio and wake up to CD in the next morning.
- Set the sleep time level above steps 1 - 5.
  - When the timer is set, set the timer playback (steps 2 - 9, page 16).
- Notes:**
- When performing timer playback using another unit connected to the USB/iPod terminal or AUDIO IN socket, select "USB" or "AUDIO IN" in step 5. However, if the source is set to "USB", make sure there is no iPod or iPhone docked to the unit.
  - This unit will turn on or enter the power stand-by mode automatically. However, the connected unit will not turn on or off. To stop the timer playback, follow step "Cancelling the timer setting" on page 17.

## 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 authorized SHARP dealer or service centre.

■ General	
Symptom	Possible cause
● The clock is not set to the correct time.	● A power failure occurred. ● Reset the clock. (Refer page 16)
● 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. ● If the unit still malfunctions, reset it. (Refer page 18)
● No sound is heard.	● The volume level is set to "MUTE". ● The headphones are connected.
● Sound too low or distorted. ● Power suddenly shuts down.	● The batteries are depleted. Change the batteries.
■ CD player	
Symptom	Possible cause
● Playback does not start.	● The disc is loaded upside down. ● The disc does not satisfy the standards. ● The disc is distorted or scratched.
● Playback sounds are skipped or stopped in the middle of a track.	● The unit is located near excessive vibrations. ● A very dirty disc has been used. ● Condensation has formed inside the unit. ● Volume level is too high. Adjust to lower volume.
■ Remote control	
Symptom	Possible cause
● The remote control does not operate.	● The AC power lead of the unit is not plugged in. ● Wrong battery polarity. ● The batteries are exhausted. ● The distance or angle is incorrect. ● The remote control sensor receives strong light or sunlight.
■ Tuner	
Symptom	Possible cause
● The radio makes unusual noises continuously.	● The unit is placed near the TV or computer. ● The FM aerial is not properly extended or positioned.

## Troubleshooting chart (continued)

■ USB	
Symptom	Possible cause
● Device cannot be detected.	● There is no MP3/WMA file on the device. ● The device is not properly connected. ● A FATP device is connected. ● The device contains AAC file only. ● A copyright protected WMA or "locked" file is being played back. ● A Variable Bitrate files are being played back. ● The File Name was written in other than English characters.
● Playback does not start.	● A copyright protected WMA or "locked" file is being played back.
● Wrong time display. ● Wrong file name display.	● The File Name was written in other than English characters.
■ iPod, iPhone or iPad	
Symptom	Possible cause
● No sound is produced. No image appears on the TV/monitor.	● The iPod, iPhone or iPad is not playing. ● The iPod, iPhone or iPad is not properly connected to the unit. ● The AC power lead of the unit is not plugged in. ● The TV/monitor's input selection is not properly set. ● The video cable is not properly connected. ● The TV/monitor's input selection is not properly set. ● The iPod TV out feature has not been set to output video. ● USB/iPod terminal does not support video.
● iPod, iPhone or iPad will not charge.	● The iPod, iPhone or iPad is not making full contact with the connector. ● The iPod TV out feature has not been set to output video. ● USB/iPod terminal does not support video.
● This accessory is not made to work with iPhone® or This accessory is not supported by iPhone screen.	● The iPhone battery is low. Please charge the iPhone. ● iPhone is not properly docked.
■ Condensation	
Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with the 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 problem 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.	

## Troubleshooting chart (continued)

- If such a problem occurs, do the following:
- Set the unit to the standby mode and turn the power on again.
  - If the unit is not restored in the previous operation, unplug and plug in the unit again, and then turn the power on.
- Note:**  
If neither operation above restores the unit, clear all the memory by resetting it.
- Factory reset, clearing all memory**
- Press the ON/STANDBY button to enter the power stand-by mode.
  - While pressing down the VOLUME + button, press the ON/STANDBY button until "RESET" appears.
- Caution:**  
This operation will erase all data stored in memory including clock, timer settings and tuner preset.
- Care of compact discs**
- Compact discs are fairly resistant to damage, however mistaking 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 the 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 mistaking. 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.
- 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.  
Do not apply oil to the inside of the unit. It may cause malfunctions.

## 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 - 240 V ~ 50/60 Hz  
15 V ~ 1.5 A (U.M.SUM-1, R20) x 10  
DC IN 12 V ~ 1 A (for car use only)
- Power consumption**  
AC: Power on: 30 W  
+ Power stand-by: 0.4 W (1)  
DC: 12 V 4.5 A (1)
- Dimensions**  
Width: 750 mm (30 - 5/16")  
Height: 275 mm (10 - 13/16")  
Depth: 260 mm (10 1/8")
- Weight**  
7.6 kg (16.8 lbs.) (without batteries and accessories)
- (\*) This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 2 to cancel the demonstration mode.

- Amplifier**
- Output power**  
Front speaker: MPO: 37 W (18.5 W + 18.5 W)  
RMS: 34 W (17 W + 17 W) (10% T.H.D.)  
Subwoofer: MPO: 38 W  
RMS: 36 W (18 W T.H.D.)  
RMS: 38 W (19% T.H.D.)
- Output terminals**  
Video output: 1 V-p  
Headphones: 16 Ω - 50 Ω (recommended: 32 Ω)
- Input terminals**  
Audio In (radio signal): 500 mV/47 Ω ohms  
Max input: 200 Ω - 2 kΩ Ø 6.3 mm  
Guitar: 100 kΩ - 1 MΩ Ø 6.3 mm

- Tuner**
- Frequency range** FM: 87.5 - 108 MHz  
**Presets** 40 (FM station)
- Speaker**
- Type** 2-way type speaker system  
**Front Speakers:** 8 cm (Ø 187) - 3 Ω - Full Range  
**Subwoofer:** 13 cm (5-1/8") - 6 Ω - Woofer (light up)
- Maximum input power** Front Speakers: 34W / Channel  
**Rated input power** Front Speakers: 17W / Channel  
Subwoofer: 33W / Channel

- CD player**
- Type** Single disc multi-play compact disc player
- Signal readout** Non-contact, 3-beam semiconductor laser pickup
- D/A converter** Multi Bit D/A converter
- Frequency response** 20 - 20,000 Hz
- Dynamic range** 90 dB (1 kHz)

## USB (MP3 / WMA)

- USB host interface**
- Complies with USB 1.1 (Full Speed)/2.0 Mass Storage Class.
  - Support Bulk only and CSB protocol.
- Support file**
- MPEG-1 Layer 3
  - WMA (Non DRA)
  - WMA (64 - 160 kbps)
- Bitrate support**
- MP3 (9 - 320 kbps)
  - WMA (64 - 160 kbps)
- Other**
- Maximum total number of MP3/WMA files is 65,025.
  - Maximum total number of folders is 999 (INCLUDE of root directory).
  - The ID3TAG information supported are TITLE, ARTIST and ALBUM only.
  - Supports ID3TAG version 1 and version 2.
- File system support**
- Supports USB devices with Microsoft Windows/DOS/FAT 16/ FAT 32
  - 2 kbyte block length for sector.