SHARP

MODEL

XL-HF202PH(S)
XL-HF202PH(BK)
XL-HF302PH(T)

HI FI COMPONENT 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.

Made for iPod iPhone iPad

iPad, iPhone, iPod, iPod classic, iPod nano,and iPod touch are trademarks of Apple Inc.,registered in the U.S. and other countries. Lightning is a trademark of Apple Inc..

- This audio system supports NFC-enabled device with Android 4.1, Jelly Bean and higher.
- For device with a lower Android version, refer the operation manual of the device for recommended app (application).

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The N Mark is a trademark or registered trademark of NFC Forum, Inc. In the United States and in other countries.

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.

TINSEA451AWZZ SHARP CORPORATION 13H R MW ①

Special Notes

- Hereby, SHARP Electronics declares that this SHARP Hi Fi Component System XL-HF202PH(S)/XL-HF202PH(BK)/XL-HF302PH(T) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at: http://www.sharp.de/doc/XL-HF202PH_XL-HF302PH.pdf

WARNINGS

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- 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.
- Do not turn the volume on to full at switch on. Listen to music at moderate levels. Excessive sound pressure from earphones and headphones can cause hearing loss.

Caution:

- This product is classified as a CLASS 1 LASER PRODUCT.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

- XL-HF202PH(S) Hi Fi Component System consisting of XL-HF202PH(S) (main unit) and CP-HF202H (speaker system).
- XL-HF202PH(BK) Hi Fi Component System consisting of XL-HF202PH(BK) (main unit) and CP-HF202H (speaker system).
- XL-HF302PH(T) Hi Fi Component System consisting of XL-HF302PH(T) (main unit) and CP-HF302H (speaker system).

Accessories

The following accessories are included.

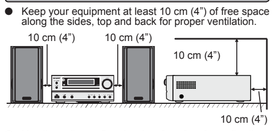
Remote control x 1	"AA" size battery (UM/SUM-3, R6, HP-7 or similar) x 1	Stand for iPad x 1	NFC tag x 2
Speaker wires x 2 (for XL-HF202PH(S) / XL-HF202PH(BK))	Speaker wires x 2 (for XL-HF302PH(T))	FM aerial x 1	Velcro tape (hook type) x 2
Velcro tape (loop type) x 3			

The illustration printed in this operation manual are for model XL-HF202PH(S).

Precautions

General

- Keep your equipment at least 10 cm (4") of free space along the sides, top and back for proper ventilation.



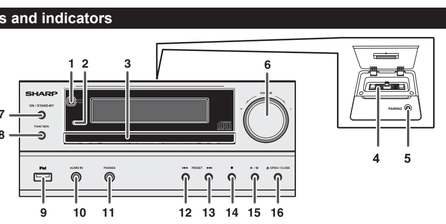
- Use the unit on a firm, level surface free from vibration.
- Place the speakers at least 30 cm (12") away from any CRT TV to avoid colour variations across the TV screen. If the variations persist, move the speakers further away from the TV. LCD TV is not prone to such variation.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic / electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If the unit does not work properly, unplug and plug it in again. Then turn on the unit.
- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- Do not place anything on top of the unit.
- The AC power plug is used as a 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 climates.

Warning:
The voltage used must be the same as that specified on this unit. Using a higher voltage 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 such usage.

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, which occurs while turning the unit on with the volume control setting up high, or while continually listening at high volumes. Excessive sound pressure from earphones and headphones can cause hearing loss.

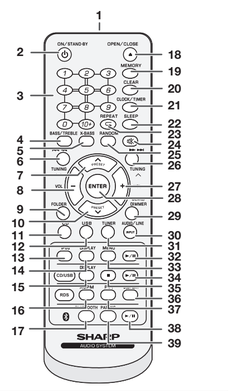
Controls and indicators



Front panel

1. Remote sensor
2. Timer indicator
3. Disc Tray
4. Docking Station for iPod or iPhone
5. Pairing Button
6. Volume Control
7. On/Stand-by Button
8. FUNCTION Button
9. USB Terminal
10. Audio In Socket
11. Headphone Socket
12. Tuner Preset Down, CD/USB, iPod/iPhone Skip Down Button
13. Tuner Preset Up, CD/USB, iPod/iPhone Skip Up Button
14. Disc/USB Stop Button
15. Disc/USB/iPod/iPhone Play or Pause Button
16. Disc Tray Open/Close Button

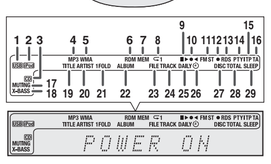
Controls and indicators (continued)



Remote control

1. Remote Control Transmitter
2. On/Stand-by Button
3. Numeric Buttons
4. Bass/Treble Button
5. X-Bass Button
6. Tuning Down, Skip Down, Fast Reverse, Time Down Button
7. Tuner Preset Up Button, iPod Cursor Up
8. Volume Down Button
9. Folder Button
10. Tuner Preset Down Button, iPod Cursor Down
11. CD Button
12. USB Button
13. iPod Button
14. iPod Display Button
15. Disc/USB Display Button
16. RDS ASPM Button
17. *Bluetooth* Button
18. Open/Close Button
19. Memory Button
20. Clear Button
21. Clock/Timer Button
22. Sleep Button
23. Repeat Button
24. Mute Button
25. Random Button
26. Tuning Up, Skip Up, Fast Forward, Time Up Button
27. Volume Up Button
28. Enter Button
29. Demo/Dimmer Button
30. Audio/Line (INPUT) Button
31. Tuner Button
32. iPod Play/Pause Button
33. iPod Menu Button
34. CD/USB Play/Pause Button
35. CD/USB Stop Button
36. RDS Display Button
37. RDS PTY Button
38. *Bluetooth* Play / Pause Button
39. *Bluetooth* Pairing Button

Display



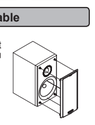
1. USB Indicator
2. iPod Indicators
3. CD Indicator
4. MP3 Indicator
5. WMA Indicator
6. RDM (Random) Indicator
7. MEM (Memory) Indicator
8. Repeat Indicator
9. Play/Pause Indicator
10. Tuning FM/*Bluetooth* status Indicator
11. FM Stereo Mode Indicator
12. Stereo Station Indicator
13. RDS Indicator
14. PTY Indicator
15. TP Indicator
16. TA Indicator
17. Muting Indicator
18. X-bass Indicator
19. Title Indicator
20. Artist Indicator
21. Folder Indicator
22. Album Indicator
23. File Indicator
24. Track Indicator
25. Daily Timer Indicator
26. Once Timer Indicator
27. Disc Indicator
28. Total Indicator
29. Sleep Indicator

Speaker system

1. Dome-Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Terminal

Speaker grilles are removable

Make sure nothing comes into contact with the speaker diaphragms when you remove the speaker grilles.

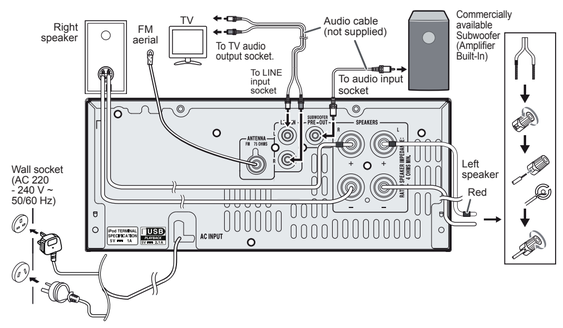


System connections

Make sure to unplug the AC power lead before making any connections.

To select Line In function:
Press FUNCTION button (main unit) or AUDIO/LINE (INPUT) button (remote control) repeatedly until Line in is displayed.

Notes:
- No sound is heard from the subwoofer without a built-in amplifier.
- Subwoofer Pre-out (audio signal): 200mV / 10k ohms at 70 Hz.



Aerial connection

Supplied FM aerial:
Connect to the FM 75 OHMS socket and position it where reception is best.
External FM aerial:
Use an external FM aerial (75 ohms coaxial cable) for better reception. Disconnect the supplied FM aerial wire before use.
Note:
Keep the aerial away from the unit or AC power lead to avoid noise pickup.

Speaker connection

Speaker terminal	XL-HF202	XL-HF302
+ terminal	red wire	wire with red insulation tube
- terminal	black wire	wire with black insulation tube

- Use speakers with an impedance of 4 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- Do not let the bare speaker wires touch each other.
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Do not stand or sit on the speakers. You may be injured.

Incorrect

Demonstration mode

- The first time the unit is plugged in, it will enter the *Bluetooth* stand-by (demonstration) mode. "*Bluetooth* Stby" will be displayed.
- To cancel the *Bluetooth* stand-by (demonstration) mode, press the DEMO button (remote control) during power stand-by mode. The unit will enter the low power consumption mode.
- To return to the *Bluetooth* stand-by (demonstration) mode, press the DEMO button again.
- During *Bluetooth* stand-by condition, NFC function is activated once your device touch the supplied NFC tag.
- If iPod or iPhone is docked, the unit will begin charging.
  "Charge Mode" will be displayed. Demonstration mode is invalid during charge mode.

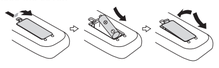
AC power connection

After all connections have been made correctly, plug the AC power lead into the wall socket.
Note:
Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

Remote control

Battery installation

1 Open the battery cover.
2 Insert the supplied battery according to the terminal indicated in the battery compartment. When inserting or removing the battery, push it towards the (–) battery terminals.
3 Close the cover.

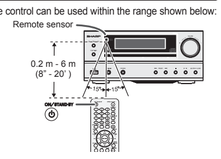


Caution:
- Remove the battery if the unit will not be used for a long period of time. This will prevent potential damage due to battery leakage.
- Do not use rechargeable battery (nickel-cadmium battery, etc.).
- Installing the battery incorrectly may cause the unit to malfunction.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

Notes concerning use:
- Replace the battery if the operating distance is reduced or if the operation becomes erratic. Purchase an "AA" size battery (UM/SUM-3, R6, HP-7 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit if this occurs.
- Keep the remote control away from moisture, heat, shock and vibrations.

Test of the remote control

The remote control can be used within the range shown below:



General control

To turn the power on

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

Display brightness control

Press the DEMO/DIMMER button (remote control).
→Dimmer 1 (Display is dim).
Dimmer 2 (Display gets dimmer).
Dimmer off (Display is bright).

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 16 and fades in to the last set level.

Volume control

Turn the volume knob towards VOLUME +/– (main unit) or press VOL +/– (remote control) to increase or decrease the volume.

Muting

To mute the volume, press the button (remote control). Press again to restore the volume.

Direct key power on function

When you press any of the following buttons, the unit turns on.
- CD, USB, iPod, *BLUETOOTH*, AUDIO/LINE (INPUT), TUNER, iPod ►/II, CD/USB ►/II, *BLUETOOTH* ►/II on the remote control: Selected function is activated.
- ►/II button on the main unit: The unit turns on and playback of the last function will start (CD, USB, iPod, *BLUETOOTH*, AUDIO IN, LINE IN, TUNER)

Auto power off function

The main unit will enter the stand-by mode (when iPad, iPod or iPhone is not connected) after 15 minutes of inactivity during:
iPod: Not docked.
Audio/Line In: No detection of input signal.
CD: In the stop mode or no disc.
USB: In the stop mode or no media.
Bluetooth: In the pause mode on not connected condition.
Note:
However, if iPod or iPhone is docked, the unit will begin charging. "Charge Mode" will be displayed.

X-Bass control

When the power is first turned on, the unit is in the extra bass mode. "X-BASS" indicator appears. To cancel this mode, press the X-BASS button (remote control).

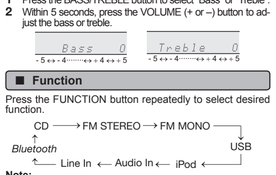
Bass or Treble control

1 Press the BASS/TREBLE button to select "Bass" or "Treble".
2 Within 5 seconds, press the VOLUME (+ or –) button to adjust the bass or treble.

Bass 0 -5◂▸-4·····▸▸+4◂▸+5
Treble 0 -5◂▸-4·····▸▸+4◂▸+5

Function

Press the FUNCTION button repeatedly to select desired function.



Note:
The backup function will protect the memorised function mode for a few hours should there be a power failure or the AC power lead becomes disconnected.

Bluetooth one touch connection via NFC

About NFC technology

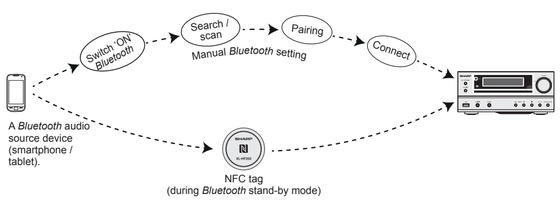
Near Field Communication (NFC) is a set of standards for devices (smartphones/tablets) to establish radio communication with each other by touching/tapping them together or bringing them into close proximity.
Using NFC in this product simplifies the pairing method of *Bluetooth* connectivity.

- This audio system supports NFC-enabled device with Android 4.1, Jelly Bean and higher.
- For device with a lower Android version, refer the operation manual of the device for recommended app (application).

Unlike other wireless technology, NFC requires no discovery or pairing.
Simply tap the source device to the NFC tag to instantly enjoy seamless connectivity between your smart device and the audio system.

NFC detection area

NFC detection area location may vary depending on the device (smartphone / tablet). Refer operation manual of the device for detail.



NFC tag set up

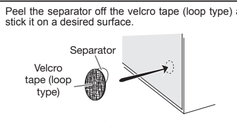
The NFC tags can be placed anywhere convenient to you. The velcro tapes supplied will help to secure the tags onto the desired location.

Caution :
- Make sure that the NFC tag is placed on a flat and level surface.
- **If you choose not to use the velcro tape, do not place the NFC tag near metal surface to avoid connection interference during tagging.**

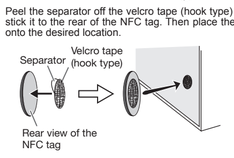
Important:
- NFC tag has unique ID for each individual set, SHARP provides 2 identical tags for your convenience.
- SHARP will not be held liable for the damages caused by rewriting the tags.

Keep all small parts away from children as they may be accidentally swallowed.

1 Peel the separator off the velcro tape (loop type) and stick it on a desired surface.



2 Peel the separator off the velcro tape (hook type) and stick it to the rear of the NFC tag. Then place the tag onto the desired location.



Bluetooth one touch connection via NFC (continued)

NFC connection for audio playback

Check that:
- Your device (smartphone / tablet) has an NFC function.
- NFC function on your device is turned on.
- Screen lock function of the device is off.
- This unit is not in Eco mode.

1 Touch your device to the supplied NFC tag.

2 A pop-up window asking whether to proceed with the *Bluetooth* connection appears on the device. Select <YES>.
- The 'connected' message appears when the connection is complete.

3 Playback will start automatically. Otherwise, press play (on remote control or source device).
- Sound will be heard from the speakers of this unit via audio streaming.
- Your device and NFC tag must be within 10 meters from the unit

Bluetooth operation buttons (remote control only)	
►/II	Press the button to play or pause.
►►I	Press the button to skip up. Press and hold to fast forward.
I◄◄	Press the button to skip down. Press and hold to fast reverse.

Notes:
- To listen to audio via *Bluetooth* connectivity without NFC tag - refer "**Pairing with other *Bluetooth* source devices**" on page 8.
- To disconnect, simply touch your device to the tag again.

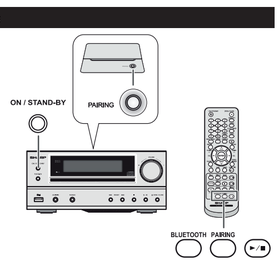
Listening to *Bluetooth* enabled devices

Bluetooth

Bluetooth wireless technology is a short-range radio technology that enables wireless communication between various types of digital devices, such as mobile phone or computer. It operates within a range of about 10 meters (30 feet) without the hassle of having to use cables to connect these devices.

This unit supports the following:
Communication System: Bluetooth Specification version 2.1 Bluetooth + Enhanced Data Rate (EDR).
Support Profile : A2DP (Advanced Audio Distribution Profile) and AVRCP (Audio/Video Remote Control Profile)

Notes when using unit with a mobile phone
- This unit cannot be used to talk over the telephone even when there is a *Bluetooth* connection made to a mobile phone.
- Please refer to the operating manual supplied with the mobile phone for details on operation of your mobile phone while transmitting the sound using a *Bluetooth* connection.



Pairing *Bluetooth* devices

Bluetooth devices need to be initially paired first before they can exchange data. Once paired, it is not necessary to pair them again unless:
- pairing is made with more than 8 devices. Pairing can only be made one device at a time. This unit can be paired to a maximum of 8 devices. If subsequent device is paired, the oldest device paired, will be deleted and replaced with the new one.
- this unit is reset. All pairing information is deleted when unit is reset.
- pairing information is deleted while re-pairing, etc.

Listening to *Bluetooth* enabled devices (continued)

Indicators:

Indicator	Condition	*Bluetooth* status
► ◄	Blinks	In waiting or pairing mode
►●◄	Lights up	Connected
No indication		Unconnected

However, the indication status is not displayed during *Bluetooth* stand-by mode.

Pairing with other *Bluetooth* source devices

1 Press the ON/STAND-BY button to turn the power on.
2 Press the FUNCTION button (main unit) repeatedly or BLUETOOTH button (remote control) to select *Bluetooth* function. "Bluetooth" appears on the display.
3 Press and hold the PAIRING button for 3 seconds or more. "Start Pairing" appears on the display. The unit is now in pairing mode and is ready to be paired with other *Bluetooth* source device.
4 Perform pairing procedure on the source device to detect this unit. "SHARP XL-HF202" will appear in the detected devices list (if available) in the source device. (Refer the source device operating manual for details).
Notes:
- Place the devices to be paired within 1 meter (3 feet) of each other when pairing.
- Some source devices are unable to display lists of detected devices. To pair this unit with the source device, refer to the source device operating manual for details.

5 Select "SHARP XL-HF202" from the source list. If Passcode* is required, enter "0000".
* Passcode may be called PIN Code, Passkey, PIN number or Password.
6 "Pair Complete" and then "Connected" appears on the display once the unit is successfully paired with the source device. (Pairing information is now memorised in the unit.) Some audio source devices may connect with the unit automatically after pairing is completed, otherwise follow the instructions in the source device operating manual to start connection.
7 Press the play button on main unit, remote control or source device to start *Bluetooth* connection.

Notes:
- If a device such as microwave oven, wireless LAN card, *Bluetooth* device or any other device that uses the same 2.4 GHz frequency near the system some sound interruption may be heard.
- The transmission distance of the wireless signal between the device and the main unit is about 10 m (32 '), but may vary depending on your operating environment. If a steel concrete or metallic wall is between the device and the main unit, the system may not operate at all, because the wireless signal cannot penetrate metal.
- If this unit or the source device is turned off before *Bluetooth* connection is completed, pairing will not be completed and the pairing information will not be memorised. Repeat step 1 onwards to start pairing again.
- To pair with other devices, repeat steps 1 - 5 for each device. This unit can be paired to a maximum of 8 devices. If subsequent device is paired, the oldest device paired, will be deleted and replaced with the new one.
- Once a device is ousted or deleted from the pairing list, the pairing information for the device is also deleted. To listen to the sound from the device again, it needs to be re-paired. Perform steps 1 - 5 to pair the device again.

Listening to the sound

Check that:
- The source device *Bluetooth* functionality is ON.
- Pairing of this unit and the source device is completed.
- Unit is in connected mode.

1 Press the ON/STAND-BY button to turn the power on.
2 Press the FUNCTION button to select *Bluetooth* function.
3 Start the *Bluetooth* connection from the *Bluetooth* stereo audio source device.
4 Press the BLUETOOTH ►/II button.
Notes:
- For various *Bluetooth* operations, refer "NFC connection for audio playback" on page 7.
- If the source device has an extra bass function or equalizer function, set them to off to avoid sound distortion.

Notes:
- Make the *Bluetooth* connection again if the source device is not turned on, or its *Bluetooth* functionality is off or is in sleep mode.

To disconnect the *Bluetooth* device

Perform any of the followings.
– Disconnect the *Bluetooth* connection on the audio source device. Refer the operating manual supplied with the device.
– Turn off the *Bluetooth* stereo audio source device.
– Turn off this unit.
Note:
The volume of this unit may not be controlled as intended depending on the device.

Auto power on

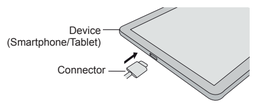
During *Bluetooth* Stand-by mode, when music is played from your device, the unit will automatically power on when the *Bluetooth* connection has been set up between the main unit and your device and they remain connected.
Note:
This function is not applicable during Demonstration mode off.

Listening on Android™ devices

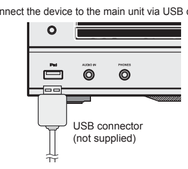
Introduction : Open Accessory

Open Accessory support allows external USB hardware (an Android USB accessory) to interact with an Android-powered device in a special accessory mode. When an Android-powered device is in accessory mode, the connected accessory acts as the USB host (powers the bus and enumerates devices) and the Android-powered device acts in the USB accessory role. Android USB accessories are specifically designed to attach to Android-powered devices and adhere to the Open Accessory Protocol, that allows them to detect Android-powered devices that support accessory mode.

1 Insert the connector to the device.



2 Connect the device to the main unit via USB connector.



Android device playback

1 Press the ON/STAND-BY button to turn the power on.
2 Press the USB button (remote control) or FUNCTION button repeatedly (main unit) to select USB function.
3 Connect the device (Smartphone/Tablet) to the unit. "USB Media" will be displayed.

USB Media

4 Press the play button (on main unit, remote control or device).

Notes:
- If the source device has an extra bass or equalizer function, set them to off. If these functions are on, sound may be distorted.
- Incoming calls will pause the playback/application.
- Once the calls are answered, the conversation can only be heard through the built-in speaker of the cellular device. Turn on the device speaker or disconnect the device to start conversation.

To disconnect the Android device

1 Quit the application (apps).
2 Disconnect the device from the USB terminal.

Various functions

Function	Remote control	Operation
Track up/down	I◄◄ ►►I	Press in the playback or stop mode. If you press the button in the stop mode, press the ►/II button to start the desired track.
Fast forward/ reverse	I◄◄ ►►I	Press and hold down in the playback mode. Release the button to resume playback.

Notes:
- If non-compatible device is detected, "Dev No Support" will be displayed.
- Controls (play/pause/skip up/skip down) will function based on actual Applications (Apps) controls used on Android devices.

Android is a trademark of Google Inc.

Listening to the iPod, iPhone or iPad

Made for:
- iPhone 5
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone
- iPad (4th generation)
- iPad mini
- iPad (3rd generation)
- iPad 2
- iPad
- iPod touch (5th generation)
- iPod touch (4th generation)
- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic
- iPod nano (7th generation)
- iPod nano (6th generation)
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)

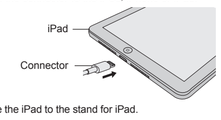
Caution:
Update your iPod, iPhone and iPad unit to the latest software version before using them. Visit Apple's homepage to download the latest version.
Notes:
- Charging terminal for iPod, iPhone and iPad:

Condition	DOCK	USB
USB function	NO	YES
Other function (*Bluetooth*/CD/Tuner/ USB/iPod/Audio/Line in)	YES	NO
Bluetooth Stand-by	YES	NO

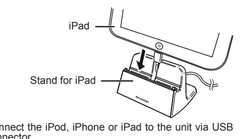
- The message "This accessory is not made to work with iPhone" or similar, may appear on the iPhone screen when:
  - battery is low.
  - the iPhone is not properly docked (eg. slanting).
  If this occurs, remove and re-dock the iPhone.
- The headphone output is switched off during inserting iPod, iPhone and iPad unit. This is an Apple product specification.

iPod, iPhone and iPad connection (USB only)

1 Insert the connector to the iPod, iPhone or iPad.

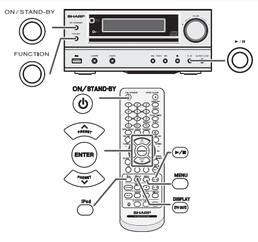


2 Place the iPad to the stand for iPad.



3 Connect the iPod, iPhone or iPad to the unit via USB connector.

Note:
USB terminal does not support VIDEO out.



iPod, iPhone or iPad playback (USB terminal)

1 Press the ON/STAND-BY button to turn the power on.
2 Press the USB button (remote control) or FUNCTION button repeatedly (main unit) to select USB function.
3 Connect iPod, iPhone or iPad to the unit. "USB/iPod" will appear.

USB/iPod ⇨ TRACK 1
Track number

4 Press the ►/II (CD/USB ►/II) button to start playback.

Note:
Stop button (■) is invalid during iPod, iPhone or iPad playback.

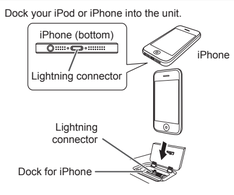
Note for iPhone playback:
- Sound will only switch from iPhone to the main unit after authentication process is completed in approximately 10 seconds.
- Incoming calls will pause the playback.
- Once the calls are answered, the conversation can only be heard through the built-in iPhone speaker. Turn on the iPhone speaker or undock the iPhone to start conversation.

iPod and iPhone connection (Dock only)

Caution:
Unplug all accessories from the iPod or iPhone before inserting it into the dock.
Note:
Docking station is for iPod touch (5th generation), iPod nano (7th generation) and iPhone 5 connection only. Other Apple products (iPod, iPhone and iPad) can be connected via USB terminal.
1 Open the docking station for iPod and iPhone by pulling up the cover.

Listening to the iPod, iPhone or iPad (continued)

2 Dock your iPod or iPhone into the unit.



iPod or iPhone playback (Dock)

1 Press the ON/STAND-BY button to turn the power on.
2 Press the iPod button on the remote control or FUNCTION button repeatedly on the main unit to select iPod function.
3 Insert iPod or iPhone into the dock of main unit. "Dock Ok" will appear.
4 Press the ►/II (iPod ►/II) button to start playback.

To disconnect iPod, iPhone or iPad

Simply remove the iPod or iPhone from the docking station or iPad connector from USB terminal. It is safe to do so even during playback.

Navigating the iPod, iPhone or iPad menus

1 Press the MENU button to view the menu on iPod, iPhone or iPad unit. Press it again to go back to previous menu.
2 Use the PRESET (∨ or ∧) button to select an item on the menu and then press ENTER button.

Note:
When navigating the iPod, iPhone or iPad menu with remote control, do not operate any of the buttons on the iPod or iPhone unit. The volume level is adjusted by pressing the VOL (+ or –) button on the main unit or the remote control. Adjusting the volume on the iPod, iPhone or iPad units give no effect.

iPod, iPhone and iPad operations:
The operations described below depend on the generation iPod, iPhone and iPad you are using.

System on operation:
When the main unit is powered on, the iPod, iPhone or iPad units will automatically power on when docked or connected to the unit.

System off (stand-by operation):
When the main unit is turned to stand-by mode, the docked iPod, iPhone or connected iPad unit will automatically turn to stand-by mode.

Various iPod, iPhone and iPad functions

Function	Main unit	Remote control		Operation
	Dock/USB	Dock	USB	
Play	►/II	iPod ►/II	CD/USB ►/II	Press in the pause mode.
Pause				Press in the playback mode.
Track up/ down	I◄◄ PRESET ►►I	I◄◄ ►►I		Press in the playback or pause mode. If you press the button in the pause mode, press the ►/II button to start the desired track.
Fast forward/ reverse				Press and hold down in the playback mode. Release the button to resume playback.
Display	—	iPod DISPLAY		Press to display iPod information.
Repeat	—	REPEAT		Press to toggle repeat mode.
Shuffle	—	RANDOM		Press to toggle shuffle mode.
Menu	—	iPod MENU		Press to view the iPod menu during iPod function.
Enter	—	ENTER		Press to confirm the selection.
Cursor Up/ Down	—	∧ ∨		Press to select the iPod menu.

Listening to a CD or MP3/WMA disc

Disc playback

1 Press the ON/STAND-BY button to turn the power on.
2 Press the CD button on the remote control or FUNCTION button repeatedly on the main unit to select CD function.
3 Press the OPEN/CLOSE button to open the disc compartment.
4 Place the disc in the disc compartment, label side front.
5 Press the OPEN/CLOSE button to close the disc tray.
6 Press the ►/II (CD/USB ►/II) button to start playback.

To stop playback:
- Press the ■ (CD/USB ■) button.

Caution:
- Do not place two discs in one-disc-tray.
- Do not play discs of special shapes (heart, octagon, etc). It may cause malfunctions.
- Do not push the disc tray while it is moving.
- If the power fails wait until the power is restored.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
- Be sure to place 8 cm (3") disc in the middle of the disc tray.
- Due to the structure of the disc information, it takes longer to read an MP3/WMA disc than a normal CD (approximately 20 to 90 seconds).

Note for CD or MP3/WMA disc:
- Rewritable multi-session discs with unfinished writing, can still be played.

Various disc functions

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

Direct track search

Use the Numeric buttons (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 "1" button.
3 Press the "3" button.

TRACK 1· 001
Selected track number

B. For example, to choose 130
1 Press the "10+" button twice.
2 Press the "1" button.
3 Press the "3" button.
4 Press the "0" button.

Notes:
- A track number higher than the number of tracks on the disc cannot be selected.
- During random play, direct search is not possible.

Random play

To random play all tracks:
Press RANDOM button on the remote control until "Random" appears. Press the ►/II (CD/USB ►/II) button.
To cancel random play:
Press the RANDOM button again. "RDM" indicator will disappear.

RDM CD 1· 001

Notes:
- If you press the ►►I button during random play, you can move to the track selected next by the random operation. However, the I◄◄ 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.)

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

Repeat play

Repeat play can play one track, all tracks or a programmed sequence continuously.
To repeat one track:
Select desired track using the Numeric buttons.
Press the REPEAT button repeatedly until "Repeat One" appears. Press the ►/II (CD/USB ►/II) button.
To repeat all tracks:
Press the REPEAT button repeatedly until "Repeat All" appears. Press the ►/II (CD/USB ►/II) button.
To repeat desired tracks:
Perform steps 1 - 5 in "Programmed play" section on this page and then press the REPEAT button repeatedly until "Repeat All" appears.
To repeat one folder:
While in Folder mode on (MP3/WMA), press

Using the Radio Data System (RDS) (continued)

■ Information provided by RDS

You can control the RDS by using the buttons on the remote control only.

Each time the RDS DISPLAY button is pressed, the display will switch as follows:

BBC R1 ⇨ NEWS
Station name (PS) — Programme type (PTY)
⇧ ⇩
FM 9880MHz ⇦ UK WEATH
Frequency — Radio text (RT)

When tuning in to a station other than an RDS station or to an RDS station which sends weak signal, the display will change in the following order:

No PS → No PTY → No RT → FM 98.80 MHz → No PS

■ Using the Auto Station Programme Memory (ASPM)

While in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 40 stations can be stored.

1 Press the TUNER button (remote control) or FUNCTION button (main unit) repeatedly to select TUNER function.
2 Press and hold the RDS ASPM button.
  1 After "ASPM" has flashed for about 4 seconds, scanning will start (87.50 - 108.00 MHz).

ASPM ⇨ FM 8750MHz

  2 When an RDS station is found, "RDS" will appear for a short time and the station will be stored in memory.

FM 8800MHz (RDS)

  3 After scanning, the number of stations stored in memory will be displayed for 4 seconds, and then "END" will appear for 4 seconds.

08 MEMORY ⇨ END

To stop the ASPM operation before it is complete:
Press the RDS ASPM button while it is scanning for stations. The stations which are already stored in memory will be kept there.

Notes:
- If the same station is broadcasting on different frequencies, the strongest frequency will be stored in memory.
- 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 preset memory.
- If no station have been stored in memory, "END" will appear for about 4 seconds.
- If the RDS signals are very weak, station names may not be stored in memory.
- The same station name can be stored in different channels.
- In a certain area or during certain time periods, the station names may be different.

■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:
- "PS", "No PS" and a station name appear alternately, and the unit does not operate properly.
- If 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 may not be displayed.
- "No PS", "No PTY" or "No RT" will flash for about 5 seconds, and then the frequency will be displayed.

Notes for radio text:
- The first 14 characters of the radio text will appear for 4 seconds and then they will scroll across the display.
- If you tune in to an RDS station which is not broadcasting any radio text, "No RT" will be displayed when you switch to the radio text position.
- While radio text data is received or when the text contents change, "RT" will be displayed.

■ To recall stations in memory

To specify programmed types (news, sports, traffic programme, etc..) and select stations (PTY search):

1 Press the TUNER button (remote control) or FUNCTION button (main unit) repeatedly to select TUNER function.
2 Press the RDS PTY button.

SELECT ⇔ PTY TI

"SELECT" and "PTY TI" will appear alternately for about 6 seconds.
3 Within 6 seconds, press the TUNING (∨ or ∧) button to select the programme type.

NEWS

Each time the button is pressed, the programme type will appear. If the button is held down for more than 0.5 seconds, the programme type will appear continuously.

Using the Radio Data System (RDS) (continued)

4 **While the selected programme type is flashing (within 6 seconds), press the RDS PTY button again.**

NEWS ⇨ SEARCH

After the selected programme type has been lit for 2 seconds, "SEARCH" will appear, and the search operation will start.

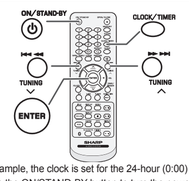
Notes:
- If the display has stopped flashing, start again from step 2. If the unit finds a desired programme type, the corresponding channel number will lit for about 8 seconds, and then the station name will remain lit.
- If you want to listen to the same programme type of another station, press the RDS PTY button while the channel number or station name is flashing. The unit will look for the next station.
- If no station can be found, "NOT FOUND" will appear for 4 seconds.

If you select the traffic programme:
If you select the traffic programme (TP) in step 3, "TP" will appear.
(This does not mean that you can listen to the traffic information at that time.)
When the traffic information is broadcast, "TA" will appear.

Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement)

NEWS	POP M	SOCIAL	FOLK M
AFFAIRS	ROCK M	RELIGION	DOCUMENT
INFO	EASY M	PHONE IN	TEST
SPORT	LIGHT M	TRAVEL	ALARM
EDUCATE	CLASSICS	LEISURE	NONE
DRAMA	OTHER M	JAZZ	TP
CULTURE	WEATHER	COUNTRY	TA
SCIENCE	FINANCE	NATION M	
VARIED	CHILDREN	OLDIES	

Setting the clock (Remote control only)



In this example, the clock is set for the 24-hour (0:00) display.

1 Press the ON/STAND-BY button to turn the power on.
2 Press the CLOCK/TIMER button.
3 Within 10 seconds, press the ENTER button. To adjust the day, press the ⏮ or ⏭ button and then press the ENTER button.
4 Press the ⏮ or ⏭ button to select 24-hour or 12-hour display and then press the ENTER button.
  "0:00" → The 24-hour display will appear. (0:00 - 23:59)
  ↓
  "AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)
  ↓
  "AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)
5 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.
6 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 for about 5 seconds.

Note:
When power supply is restored after unit is plugged in again or after a power failure, reset the clock.

To readjust 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 change the 24-hour or 12-hour display:

1 Clear all the programmed contents. [Refer to "Factory reset, clearing all memory" on page 22 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, LINE IN) at a preset time.

This unit has 2 types of timer: ONCE TIMER and DAILY TIMER.

Once timer ("⏲" indicator):
Once timer play works for one time only at a preset time.

Daily timer ("DAILY" indicator):
Daily timer play works at the same preset time every day that we set. For example, set the timer as a wake-up call every morning.

Using the once timer and daily timer in combination:
For example, use the once timer to listen to a radio programme, and use the daily timer to wake up.

1 **Set the daily and once timer (pages 18 - 19).**

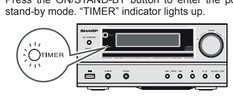
1 minute or more
Daily timer: Start → Stop
Once timer: Start → Stop

■ Timer playback

Before setting timer:
- Check that the clock is set to the correct time. If it is not set, you cannot use the timer function.
- For timer playback: Plug in USB or load discs or dock iPod to be played.

⇩

1 Press the ON/STAND-BY 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 "Timer Set", and press the ENTER button.
5 To select the timer playback source (CD, TUNER, USB, iPod, AUDIO IN, LINE IN), press the ⏮ or ⏭ button. Press the ENTER button.
  When you select the tuner, select a station by pressing the ⏮ or ⏭ button, and then press the ENTER button. If a station has not been programmed, "No Preset" will be displayed and timer setting will be cancelled.
6 To adjust the day, press the ⏮ or ⏭ button and then press the ENTER button.
7 Press the ENTER button to adjust the hour. Press the ⏮ or ⏭ button and then press the ENTER button.
8 To adjust the minutes, press the ⏮ or ⏭ button and then press the ENTER button.
9 Set the time to finish as in steps 7 and 8 above.
10 Adjust the volume using the VOLUME control, and then press the ENTER button.
11 Press the ON/STAND-BY button to enter the power stand-by mode. "TIMER" indicator lights up.



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

12 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.
13 When the timer end time is reached, the system will enter the power stand-by mode automatically.
  Once timer:
  The timer will be cancelled.
  Daily timer:
  The timer operates at the same time every selected day. Cancel the daily timer when it is not in use.

Notes:
- When performing timer playback using another unit connected to the USB terminal or AUDIO IN jack, select "USB" or "AUDIO IN" or "LINE IN" in step 5. 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**" of this page.

Checking the timer setting:
1 Turn the power on. Press and hold the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ or ⏭ button to select "Once" or "Daily", and press the ENTER button.
3 Within 10 seconds, press the ⏮ or ⏭ button to select "Timer Call", and press the ENTER button.

Cancelling the timer setting:
1 Turn the power on. Press and hold the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ or ⏭ button to select "Once" or "Daily", and press the ENTER button.
3 Within 10 seconds, press the ⏮ or ⏭ button to select "Timer Off", and press the ENTER button. Timer will be cancelled (the setting will not be cancelled).

Reusing the memorised timer setting:
The timer setting will be memorised once it is entered. To reuse the same setting, perform the following operations.
1 Turn the power on. Press and hold the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ or ⏭ button to select "Once" or "Daily", and press the ENTER button.
3 Within 10 seconds, press the ⏮ or ⏭ button to select "Timer On" , and press the ENTER button.
4 Press the ON/STAND-BY button to enter the power stand-by mode.

■ Sleep operation

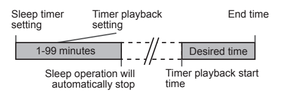
The radio, disc, iPod, USB, Audio In and Line In can all be turned off automatically.
1 Play back the desired sound source.
2 Press the SLEEP button.
3 Within 5 seconds, press the Numeric button to set the time. (1 minute ~ 99 minutes)
4 "SLEEP" will appear.
5 The unit will enter the power stand-by mode 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:
1 While "SLEEP" is indicated, press the SLEEP button.

To cancel the sleep operation:
Press the ON/STAND-BY button while "SLEEP" is indicated. To cancel the sleep operation without setting the unit to the stand-by mode, proceed as follows.
1 While "SLEEP" is indicated, press the SLEEP button.
2 Within 5 seconds, press the "0" button twice until "SLEEP 00" appears.

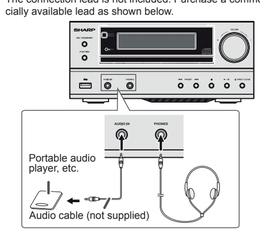
■ To use timer and sleep operation together

Sleep and timer playback:
For example, you can fall asleep listening to the radio and wake up to CD the next morning.
1 Set the sleep time (see above, steps 1 - 5).
2 While the sleep timer is set, set the timer playback (steps 2 - 9, page 17).



Enhancing your system

The connection lead is not included. Purchase a commercially available lead as shown below.



■ Listening to the playback sounds of portable audio player, etc.

1 Use a connection lead to connect the portable audio player, etc. to the AUDIO IN socket.
2 Press the ON/STAND-BY button to turn the power on.
3 Press the AUDIO/LINE (INPUT) button (remote control) or FUNCTION button repeatedly (main unit) to select AUDIO IN function.
4 Play the connected equipment. If volume level of the connected device is too high, sound distortion may occur. Should this happen, adjust the volume of the connected device.

Note:
To prevent noise interference, place the unit away from the television.

■ Headphones

- Do not set the volume on to maximum at switch on. Excessive sound pressure from earphones and headphones can cause hearing loss.
- Before plugging in or unplugging the headphone, reduce the volume.
- Be sure your headphone has a 3.5 mm (1/8") diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
- Plugging in the headphone disconnects the speakers automatically.

Troubleshooting chart

If something is wrong with this product, check the following before calling your authorised 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 18)
● 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 22)
● No sound is heard.	● The volume level set to "Min". ● The headphones are not connected. ● The speaker wires are not connected. ● The unit is too for from the *Bluetooth* stereo audio source device. ● The unit is not paired with the *Bluetooth* stereo audio source device.

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● The AC power lead of the unit is not plugged in. ● The battery polarity is wrong. ● The batteriy is dead. ● The distance or angle is incorrect. ● The remote control sensor receives strong light.

■ NFC / *Bluetooth*

Symptom	Possible cause
● No sound is heard.	● The unit is too far from the *Bluetooth* stereo audio source device. ● The unit is not paired with the *Bluetooth* stereo audio source device.
● *Bluetooth* sound is interrupted or distorted.	● The unit is too near to a device that generates electromagnetic radiation. ● There is an obstacle between the unit and the *Bluetooth* stereo audio source device.

Troubleshooting chart (continued)

■ Open Accessory

Symptom	Possible cause
● No sound is produced.	● The device is not playing. ● The device is not properly connected to the unit. ● The AC power lead of the unit is not plugged in.
● Device will not charge.	● The device is not making full contact with the USB terminal.

■ iPod, iPhone or iPad

Symptom	Possible cause
● No sound is produced.	● The iPod, iPhone or iPad is not playing. ● The iPod, iPhone or iPad is not properly connected to the unit. ● Is the AC power lead of the unit plugged in?
● iPod, iPhone or iPad will not charge.	● The iPod, iPhone or iPad is not making full contact with the connector. ● Using iPod (3rd generation). ● The iPod or iPhone is not supported. Refer to page 10 for compatible models.
● "This accessory is not made to work with iPhone" or "This accessory is not supported by iPhone" appears on iPhone screen.	● The iPhone battery is low. Please charge the iPhone. ● iPhone is not properly docked.

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● 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. ● Very dirty disc has been used. ● Condensation has formed inside the unit.

■ USB

Symptom	Possible cause
● Device cannot be detected.	● Is there any MP3/WMA file available? ● Is the device properly connected? ● Is it an MTP device? ● Does the device contain AAC file only?
● Playback does not start.	● Is it a copyright protected WMA file? ● Is it a false MP3 file?
● Wrong time display. ● Wrong file name display.	● Is Variable Bitrate file being played back? ● Is the File Name written in Chinese or Japanese characters?

■ Tuner

Symptom	Possible cause
● The radio makes unusual noises continuously.	● The unit placed near a TV or computer. ● The FM aerial is not placed properly. Move the aerial away from the AC power lead if it is located nearby.

■ 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 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 problem occurs

When this product is subject 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 again, and then turn the power on.

Note:
If neither operation above restores the unit, clear all the memory by resetting it.

Troubleshooting chart (continued)

■ Factory reset, clearing all memory

1 Press the ON/STAND-BY button to turn the power on.
2 Press FUNCTION button (main unit) repeatedly or AUDIO/LINE (INPUT) button (remote control) to enter Audio In mode.
3 Press ⏮ button (main unit) once.
4 Press and hold ■ button (main unit) until "RESET" appears.

⏮ PRESET ⇨ ■ RESET

Caution:
This operation will erase all data stored in memory including clock, timer settings and tuner preset.

■ Before transporting the unit

Remove all devices connected to the unit. Then, set the unit to the power stand-by mode. Carrying the unit with other devices left connected or discs left inside might damage the unit.

■ Care of discs

Discs are fairly resistant to damage. However mistracking can occur due to accumulation of dirt on the surface.
- Do not mark on the non-label side of the disc from which signals are read.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the discs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. 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.

■ Cleaning the CD pickup lens

Poor performance during CD playback (skipping or jumping) can be caused by a dirty or contaminated CD laser pick up lens. If this happens then the use of a commercially available CD lens cleaning disc may restore normal operation. Contact your supplier or local CD software dealer to obtain CD lens cleaning discs. Ensure all included instructions/documentation are carefully followed.

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 220 - 240 V ~ 50/60 Hz
Power consumption	Power on: 52 W Power stand-by: 0.4 W (*)
Dimensions	Width: 215 mm (8 - 1/2") Height: 96 mm (3 - 4/5") Depth: 335 mm (13 - 1/5")
Weight	2.6 kg (5.7 lbs.)
Frequency band	2.400GHz - 2.480GHz
Compatible *Bluetooth* Profile	A2DP (Advanced Audio Distribution Profile), AVRCP (Audio/Video Remote Control Profile) *Bluetooth* 2.1 +EDR

(*) This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 4 to cancel the demonstration mode.

■ Amplifier

Output power	MPO: 100 W (50 W + 50 W) (10% T.H.D.) RMS: 100 W (50 W + 50 W) (10% T.H.D.) RMS: 66 W (33 W + 33 W) (1% T.H.D.)
Output terminals	Speakers: 4 ohms 20Hz - 20kHz Subwoofer Pre-out (audio signal): 200 mV/10 k ohms at 70 Hz Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Audio In (audio signal): 500 mV/47 k ohms Line in (Analogue input): 500 mV/47 k ohms

Specifications (continued)

■ 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 CBI protocol.
Support file	● MPEG 1 Layer 3 ● WMA (Non DRM)
Bitrate support	● MP3 (32 ~ 320 kbps) ● WMA (64 ~ 160 kbps)
Other	● Maximum total number of MP3/WMA files is 65025. ● Maximum total number of folders is 999 INCLUSIVE of root directory. ● The ID3TAG information supported are TITLE, ARTIST and ALBUM only. ● Supports ID3TAG version 1 and version 2.
File system support	● Support USB devices with Microsoft Windows/DOS/FAT 12/FAT 16/ FAT 32. ● 2 kbyte block length for sector.

■ Tuner

Frequency range	FM: 87.5 - 108 MHz
Preset	40 (FM station)

■ Speaker (XL-HF202PH)

Type	2-way type speaker system 2.5 cm (1") Dome-Tweeter 12 cm (4-3/4") woofer
Maximum input power	100 W
Rated input power	50 W
Impedance	4 ohms
Dimensions	Width: 148 mm (5-13/16") Height: 262 mm (10-5/16") Depth: 203.5 mm (8")
Weight	2.5 kg (5.4 lbs.)/each

■ Speaker (XL-HF302PH)

Type	2-way type speaker system 2.5 cm (1") Dome-Tweeter 13 cm (5-1/8") woofer
Maximum input power	100 W
Rated input power	50 W
Impedance	4 ohms
Dimensions	Width: 160 mm (6-5/16") Height: 280 mm (11-1/16") Depth: 289 mm (11-3/8")
Weight	4.2 kg (9.3 lbs.)/each

For Australia and New Zealand customers

SHARP

FOR LOCATION ENQUIRIES WITHIN
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REGARDING YOUR LOCAL
SHARP APPROVED SERVICE CENTRE
VISIT OUR WEBSITE AT
www.sharp.net.au
OR CALL SHARP CUSTOMER CARE
1300 135 022
(LOCAL CALL COSTS APPLY WITHIN AUSTRALIA)
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SHARP CORPORATION OF NEW ZEALAND LIMITED

SPform019(AUGUST 2011)

For Australia and New Zealand customers

SHARP

WARRANTY

Consumer Electronic Products

Congratulations on Your Purchase!

This Sharp product is warranted against faults in material and manufacture for the period as stated in the table below.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

This warranty does not extend to defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, lack of maintenance, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim. This warranty is in addition to and in no way limits, varies or excludes any implied rights and remedies under any relevant legislation in the country of sale.

This warranty does not cover transportation to and from the Sharp Approved Service Centre. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods. The repair of your goods may result in the loss of user generated data, please ensure that you have saved this data elsewhere prior to repair.

Australian customers: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The criteria of a major failure is defined in the Australian Consumer Law. Should you require any assistance with a major failure please contact Sharp Customer Care.

WARRANTY PERIODS

Home Theatre Projector	12 months (excluding lamps and air filters)
Audio/Home Theatre	12 months
Microwave Oven	12 months
Steam Oven	12 months
Refrigerator	24 months
DVD/Blu-ray	12 months
Air Conditioner	60 months
Portable Air Conditioner	12 months
LCD Television	12 months
Air Purifier	12 months
Vacuum Cleaner	24 months

SHARP
SHARP CORPORATION OF AUSTRALIA PTY LIMITED
ABN 69 003 036 426
1 Huntingwood Drive
Huntingwood NSW 2148

SHARP CORPORATION OF NEW ZEALAND LIMITED
8 Rosie Lane, Mount Roskill
Penrose, Auckland

SPform 040 (JUNE 2012)

IMPORTANT NOTICE: This warranty applies only to products sold in Australia & New Zealand

For U.K. and Ireland customers

If you require any advice or assistance regarding your Sharp product, please visit our web-site www.sharp.co.uk/support
Customers without Internet access may telephone 0845 880 0512 during office hours (or (01) 676 0648 if telephoning from Ireland).

NOTES FOR USERS IN THE U.K. AND IRELAND

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 13A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ▽ or ◆ and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.
To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:
- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

SERVICE INFORMATION
In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please visit our web-site:
www.sharp.co.uk/support
Customers without Internet access may telephone 0845 880 0512 during office hours (or (01) 676 0648 if telephoning from Ireland).
Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.
0121 766 5414

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company.
Please keep your invoice or receipt, which is supplied at the time of purchase.

For U.K. and Ireland customers
Information on Proper Disposal

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A.Information on Disposal for Users (private households)
1. In the European Union
Attention: If you want to dispose of this equipment, please do not use the ordinary dustbin!
Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*.
In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.
If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.
By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.
2. In other Countries outside the EU
If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.
For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.
B.Information on Disposal for Business Users
1. In the European Union
If the product is used for business purposes and you want to discard it:
Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.
For Spain: Please contact the established collection system or your local authority for take-back of your used products.
2. In other Countries outside the EU
If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

Information on Battery Disposal
The battery supplied with this product contains traces of Lead.
Pb
For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation. Please contact your local authority for details on the collection and recycling schemes.
For Switzerland: The used battery is to be returned to the selling point.
For other non-EU countries: Please contact your local authority for correct method of disposal of the used battery.

TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. ("Sharp") guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.

2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.

3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.

4. The guarantee does not cover carriage costs, audio tapes, compact discs, iPod, iPhone, iPad, USB devices or batteries.

5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.

6. No person has any authority to vary the terms or conditions of this guarantee.

7. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre - Telephone 0845 880 0512
(or (01) 676 0648 if telephoning from Ireland)
Customer support website address - www.sharp.co.uk/support

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