

SHARP®

MODEL

XL-DAB102BH

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.



DAB+



MP3



X-BASS

- This audio system supports devices 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).
- The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by SHARP is under license. Other trademarks and trade names are those of their respective owners.

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.



SHARP CORPORATION

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Special Notes



- Hereby, SHARP Electronics declares that this SHARP Hi Fi Component System XL-DAB102BH 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-DAB102BH.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.

Note for users in Australia:

Copyright may exist in material you wish to record. Copying or broadcasting such material without permission of the relevant licensees or owners of the copyright is prohibited by law. SHARP is not in a position to authorise the copying or broadcasting of copyright materials and nothing in this OPERATION MANUAL should be implied as giving that authority.

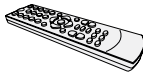
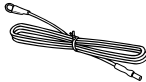
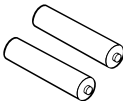
For other countries:

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

XL-DAB102BH Hi Fi Component System consisting of XL-DAB102BH (main unit) and CP-HF102H (speaker system).

Accessories

The following accessories are included.

 <p>Remote control x 1 (RRMCGA363AWSA)</p>	 <p>FM/DAB aerial x 1</p>	 <p>"AAA" size battery (UM/SUM-4, R3, HP-16 or similar) x 2</p>
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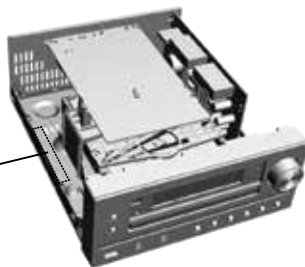
The illustration printed in this operation manual are for model XL-DAB102BH(BK).

Caution:

- This product is classified as a CLASS 1 LASER PRODUCT.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties

Material: AlGaAs
Wavelength: 790 nm
Emission Duration: continuous
Laser Output: max. 0.7 mW

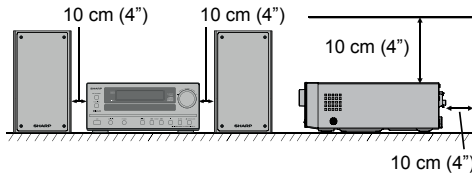


CAUTION - CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
ACHTUNG - UNSICHTBARE LASERSTRAHLUNG DER KLASSE 1M WENN GEÖFFNET UND SICHERHEITSVERREGELUNG ÜBERSCHRIKT. DEN STRAHL NICHT MIT OPTISCHEN INSTRUMENTEN ANSCHAUEN.
ATTENTION - RAYON LASER INVISIBLE DE CLASSE 1M LORSQUE OUVERT ET LE VERROUILLAGE EST DÉSACTIVÉ. NE JAMAIS REGARDER DANS LE RAYON À TRAVERS DES INSTRUMENTS D'OPTIQUE.

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).

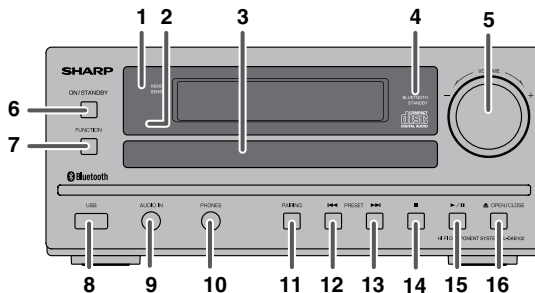
Warning:

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.

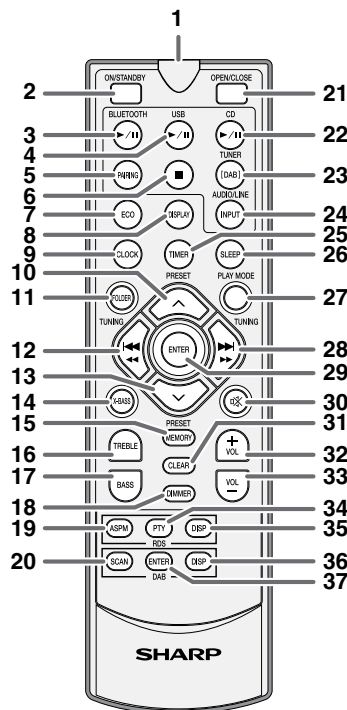
Controls and indicators



■ Front panel

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. Remote sensor 2. Timer indicator 3. Disc Tray 4. Bluetooth Standby Indicator 5. Volume Control 6. ON/STANDBY Button 7. FUNCTION Button 8. USB Terminal 9. Audio In Socket | <ol style="list-style-type: none"> 10. Headphone Socket 11. Pairing Button 12. Tuner Preset Down, CD/USB Skip Down Button 13. Tuner Preset Up, CD/USB Skip Up Button 14. Disc/USB Stop Button 15. Disc/USB/Bluetooth Play or Pause Button 16. Disc Tray Open/Close Button |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Controls and indicators (continued)

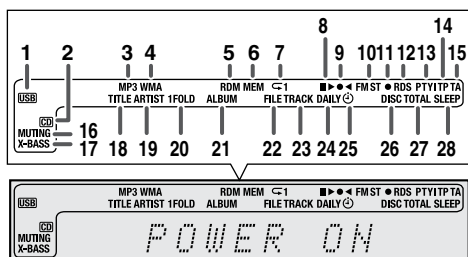


■ Remote control

1. Remote Control Transmitter
2. On/Standby Button
3. Bluetooth Play / Pause Button
4. USB Play / Pause Button
5. Pairing Button
6. CD/USB Stop Button
7. Eco Button
8. Display Button
9. Clock Button
10. Tuner Preset Up Button
11. Folder Button
12. Tuning Down, Skip Down, Fast Reverse, Time Down Button
13. Tuner Preset Down Button
14. X-Bass Button
15. Memory Button
16. Treble Button
17. Bass Button
18. Dimmer Button
19. RDS ASPM Button
20. DAB Scan Button
21. Open/Close Button
22. CD Play / Pause Button
23. Tuner [DAB] Button
24. Audio/Line (Input) Button
25. Timer Button
26. Sleep Button
27. Play Mode Button
28. Tuning Up, Skip Up, Fast Forward, Time Up Button
29. Enter Button
30. Mute Button
31. Clear Button
32. Volume Up Button
33. Volume Down Button
34. RDS PTY Button
35. RDS Display Button
36. DAB Display Button
37. DAB Enter Button

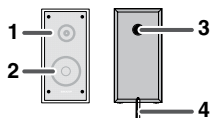
■ Display

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



■ Speaker system

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker cable



System connections

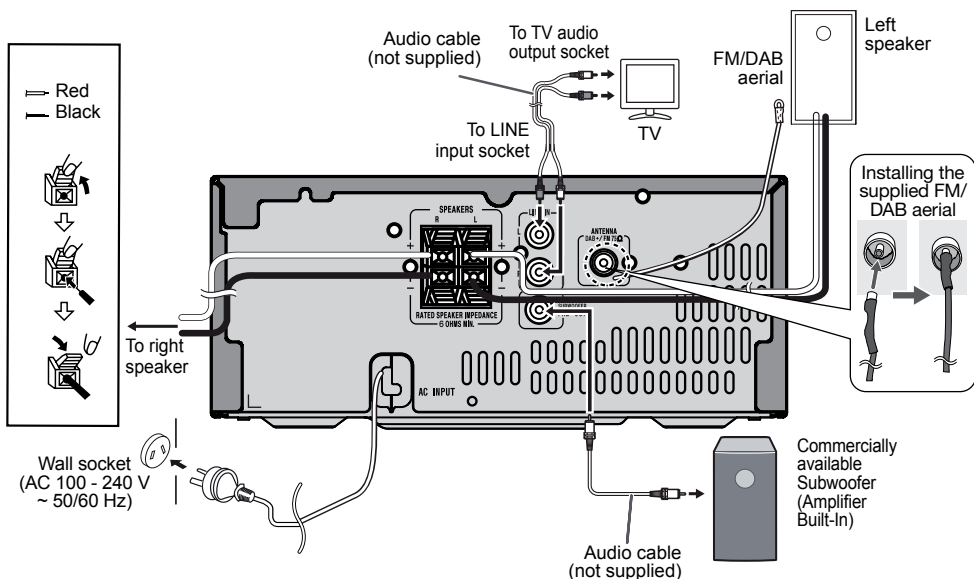
Make sure to unplug the AC power lead before making any connections.

To select Line In function:

Press FUNCTION button (main unit) or AUDIO/LINE (IN-PUT) 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/DAB aerial:

Connect to the FM/DAB 75 ohms socket and position it where reception is best.

External FM/DAB aerial:

Use an external FM/DAB aerial (75 ohms coaxial cable) for better reception. Disconnect the supplied FM/DAB aerial wire before use.

Note:

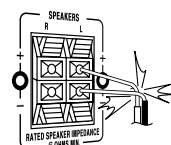
Keep the aerial away from the unit or AC power lead to avoid noise pickup.

■ Speaker connection

+ speaker terminal	red wire
- speaker terminal	black wire

- Use speakers with an impedance of 6 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

■ Bluetooth standby mode

- The first time the unit is plugged in, it will enter the *Bluetooth* standby mode. *Bluetooth* standby indicator lights up.
- To cancel the *Bluetooth* standby mode, press the ECO button (remote control) during power standby mode. The unit will enter the low power consumption mode.
- To return to the *Bluetooth* standby mode, press the ECO button again.

■ AC power connection

After all connections have been made correctly, plug the AC power lead into the wall socket.

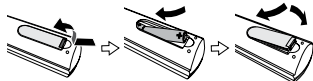
Note:

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 batteries according to the terminal indicated in the battery compartment. When inserting or removing the battery, push it toward the (–) battery terminals.
- 3 Close the cover.



Caution:

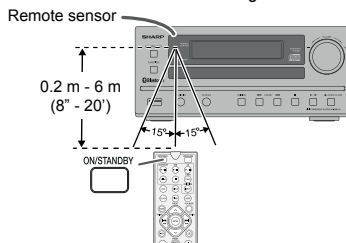
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit will not be used for a long period of time. This will prevent potential damage due to battery leakage.
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries 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 batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AAA" size battery (UM/SUM 4, R3, HP-16 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/STANDBY button to turn the power on or off.

Display brightness control

Press the 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 toward VOLUME +/- (main unit) or press VOL +/- (remote control) to increase or decrease the volume.

Muting

To mute the volume, press the M 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 ►, BLUETOOTH ►, AUDIO/LINE (INPUT), TUNER [DAB], OPEN/CLOSE (remote control): Selected function is activated.
- ► (main unit): The unit turns on and playback of the last function will start (CD, USB, BLUETOOTH, AUDIO IN, LINE IN, TUNER)

Auto power off function

The main unit will enter the standby mode after approximately 15 minutes of inactivity during:

Audio/Line In: No detection of input signal.

CD: In the stop mode or no disc.

USB: In the stop mode or no media.

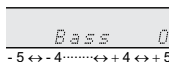
Bluetooth: - No connection after approximately 15 minutes.
- In the pause or stop mode and no incoming signal from device after approximately 15 minutes.

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).

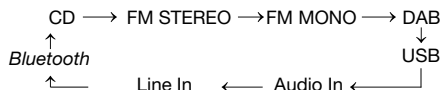
Bass or Treble control

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



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.

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.

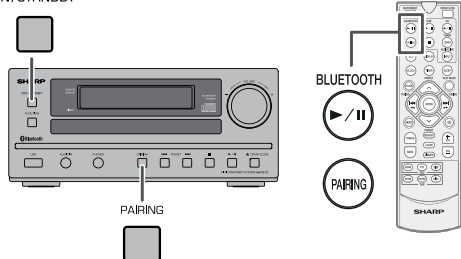
This unit supports the following:

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.

ON/STANDBY



■ Pairing Bluetooth devices

Bluetooth devices need to be initially paired first before they can exchange data. This unit can memorize up to a maximum of 99 devices. Once paired, it is not necessary to pair them again unless:

- pairing is made with more than 99 devices. Pairing can only be made one device at a time. 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.

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* standby mode.

■ Pairing with other Bluetooth source devices

- 1 Press the ON/STANDBY button to turn the power on.
 - 2 Press the FUNCTION button (main unit) repeatedly 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. "XL-DAB102B SHARP" 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 "XL-DAB102B SHARP" from the source list. If Passcode* is required, enter "0000".
 - * Passcode may be called PIN Code, Passkey, PIN number or Password.
 - 6 "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* streaming playback.

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 is placed 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 onward to start pairing again.
- To pair with other devices, repeat steps 1 - 5 for each device. This unit can memorize up to a maximum of 99 devices. If subsequent device is paired, the oldest device paired will be deleted.
- 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 *Bluetooth* enabled devices (continued)

- XL-DAB102BH supports *Bluetooth* profile AVRCP 1.4. If your device supports the same profile (refer to device manufacturer's specification), XL-DAB102BH is able to control the volume of the device and display the song information (title, album, artist).

Note:

Some music applications do not support this feature, hence there will be no volume synchronisation and no song information will be displayed even if your *Bluetooth* device supports such profile.

■ 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/STANDBY button to turn the power on.
 - 2 Press the FUNCTION button (main unit) repeatedly to select *Bluetooth* function.
 - 3 Start the *Bluetooth* connection from the *Bluetooth* stereo audio source device.
 - 4 Press the BLUETOOTH ►/|| button.

Note:

If the source device has an extra bass function or equalizer function, set them to off to avoid sound distortion.

Note:

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* standby mode, the unit will automatically power on when the *Bluetooth* connection is set up between the main unit and your device.

Note:

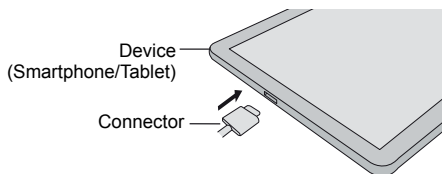
This function is not applicable during *Bluetooth* standby mode off.

Listening on Android™ devices

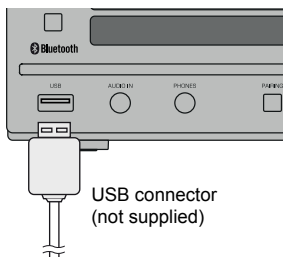
■ Introduction : Open Accessory

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/STANDBY button to turn the power on.
- 2 Press the 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

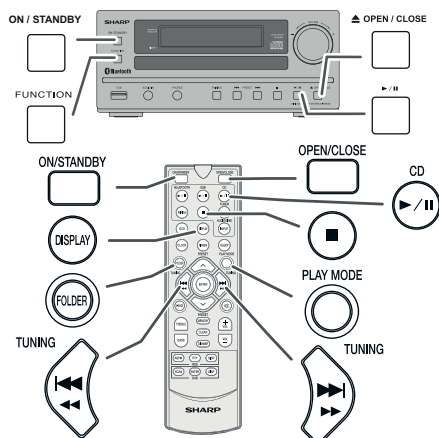
Function	Remote control	Operation
Track up/down	 	Press in the playback or stop mode. If you press the button in the stop mode, press the ►/II button to start the desired track.
Fast forward/reverse	 	Press and hold down in the playback mode. Release the button to resume playback.

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 a CD or MP3/WMA disc



■ Disc playback

- 1 Press the ON/STANDBY button to turn the power on.
- 2 Press the FUNCTION button repeatedly on the main unit to select CD function.
- 3 Press the \blacktriangle OPEN/CLOSE button to open the disc compartment.
- 4 Place the disc on the disc compartment, label side up.
- 5 Press the \blacktriangle OPEN/CLOSE button to close the disc tray.
- 6 Press the $\blacktriangleright/\text{II}$ (CD $\blacktriangleright/\text{II}$) button to start playback.

To stop playback completely:

- Press the \blacksquare button twice.

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.

■ To resume playback after stopping (resume play)

You can resume playback from the point playback is stopped.

- 1 While a disc is playing, press the \blacksquare button once. The system stores the point you stopped.
- 2 To resume play, press the CD $\blacktriangleright/\text{II}$ button. Playback resumes from the point you stopped.

To cancel the resume playback:

Press the \blacksquare button twice.

Note:

Depending on the disc, playback may resume from slightly before the stopped position.

■ Various disc functions

Function	Main unit	Remote control	Operation
Play			Press in the stop mode.
Pause	$\blacktriangleright/\text{II}$	CD $\blacktriangleright/\text{II}$	Press in the playback mode. Press the $\blacktriangleright/\text{II}$ button to resume playback from the paused point.
Stop	\blacksquare	\blacksquare	Press twice in the playback mode.
Track up/down	PRESET \blacktriangleleft \blacktriangleright	\blacktriangleleft \blacktriangleright	Press in the playback or stop mode. If you press the button in the stop mode, press the $\blacktriangleright/\text{II}$ button to start the desired track.
Fast forward/reverse	PRESET \blacktriangleleft \blacktriangleright	\blacktriangleleft \blacktriangleright	Press and hold down in the playback mode. Release the button to resume playback.

■ Random play

To random play all tracks:

Press PLAY MODE button on the remote control repeatedly until "Random" appears. Press the $\blacktriangleright/\text{II}$ (CD $\blacktriangleright/\text{II}$) button.

To cancel random play:

Press the PLAY MODE button again. "RDM" indicator will disappear.



Notes:

- If you press the $\blacktriangleright/\text{II}$ button during random play, you can move to the track selected next by the random operation. However, the \blacktriangleleft 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 ◀◀ or ▶▶ button.

Press the PLAY MODE button repeatedly until "Repeat One" appears. Press the ▶/II (CD ▶/II) button.

To repeat all tracks:

Press the PLAY MODE button repeatedly until "Repeat All" appears. Press the ▶/II (CD ▶/II) button.

To repeat desired tracks:

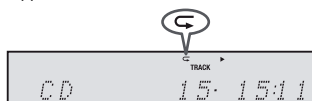
Perform steps 1 - 5 in "Programmed play" section on this page and then press the PLAY MODE button repeatedly until "Repeat All" appears.

To repeat one folder:

While in Folder mode on (MP3/WMA), press PLAY MODE button repeatedly until "Repeat Folder" appears. Press the ▶/II (CD ▶/II) button.

To cancel repeat play:

Press the PLAY MODE button repeatedly until "Normal" appears and "G" disappears.



Caution:

After performing repeat play, be sure to press the ■ button. Otherwise, the disc will play continuously.

■ Programmed play (CD)

- 1 While in the stop mode, press the MEMORY button on the remote control to enter the programming save mode.
- 2 Press the ▶▶ or ◀◀ button to select the desired track.



Selected 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, during stop mode, press the MEMORY button repeatedly. To clear the programmed tracks, press the CLEAR button.
- 5 Press the ▶/II (CD ▶/II) button to start playback.

■ Programmed play (MP3/WMA)

- 1 While in the stop mode, press the MEMORY button to enter the programming save mode.
- 2 Press the PRESET (✓ or ^) button on the remote control to select the desired folder.



Then press the ◀◀ or ▶▶ button (remote control) to select the desired tracks.



- 3 Press the MEMORY button to save the folder and track number.
- 4 Repeat steps 2 - 3 for other folder/tracks. Up to 32 tracks can be programmed.
- 5 Press the ▶/II (CD ▶/II) button to start playback.

To cancel the programmed play mode:

During programmed stop mode, press the ■ button. The display will show "Memory Clear" and all the programmed contents will be cleared.

Adding tracks to the program:

If a program has been previously stored, the "MEM" indicator will be displayed. During stop mode, press the MEMORY button once. Within 10 seconds, press and hold the MEMORY button again. Then follow steps 2 - 3 to add tracks.

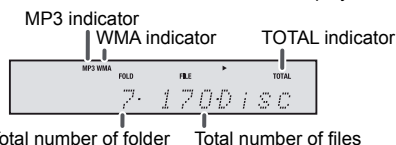
Notes:

- When the disc compartment is opened, the program is automatically cancelled.
- If you press the ON/STANDBY button to enter the standby mode or change the function from CD to another, the programmed selections will be cleared.

■ Procedure to playback MP3/WMA disc with folder mode on

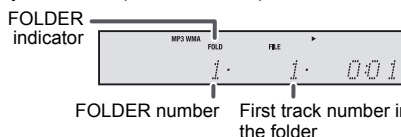
To play back CD-R/RW.

- 1 In CD function, load an MP3/WMA disc. Press the FOLDER button and disc info will be displayed.



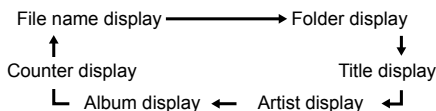
Total number of folder Total number of files

- 2 Press the PRESET (✓ or ^) button to select desired playback folder. (Folder mode on)



FOLDER number First track number in the folder

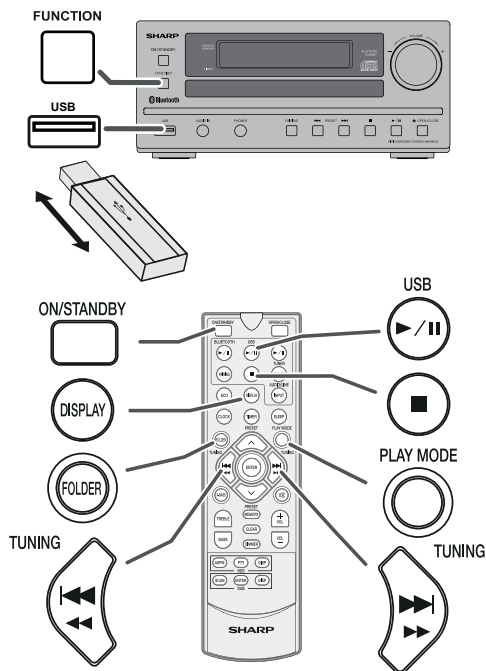
- 3 Select desired file to be played back by pressing the ◀◀ or ▶▶ button.
- 4 Press the ▶/II (CD ▶/II) button. Playback will start and file name will be displayed.
 - Title, Artist and Album name are displayed if they are recorded on the disc.
 - In case of playback with the folder mode on, press the PRESET (✓ or ^) button, and the folder can be selected even though it is in playback/pause mode. It will continue playback/pause mode in the 1st track of the selected folder.
 - Display content can be changed by pressing the DISPLAY button.



Note:

If "Not Support" is displayed, it means "Copyright protected WMA file" or "Not supported playback file" is selected.

Listening to USB mass storage device/MP3 player



Note:

This product is not compatible with MTP and AAC file systems from USB mass storage device or MP3 player.

■ To play back USB/MP3 player with folder mode on / off

- 1 Press the **FUNCTION** button (main unit) repeatedly to select USB function. Connect the USB memory device that has MP3/WMA format files on the unit. When the USB memory is connected to the main unit, the device information will be displayed.

To playback with folder mode on, follow step 2 below.

- 2 Press the **FOLDER** button, and press the **PRESET** (✓ or ^) button to select desired playback folder. To start playback, go to step 4. To change the playback folder, press the **PRESET** (✓ or ^) button to select another folder.
- 3 Select desired file to be played back by pressing the **◀◀** or **▶▶** button.
- 4 Press the **▶/||** (USB ▶/||) button. Playback will start and the file name will be displayed.

- Title, Artist and Album name are displayed if they are recorded in the USB memory device.
- Display content can be changed by pressing the **DISPLAY** button.

Note:

To pause playback:

Press the **▶/||** (USB ▶/||) button.

■ To remove USB memory device

- 1 Press the **■** button twice to stop playback.
- 2 Disconnect USB memory device from the USB terminal.

Notes:

- SHARP will not be held liable for the loss of data while the USB memory device is connected to the audio system.
- Files compressed in MP3 and/or WMA format can be played back when connected to the USB terminal.
- This USB memory's format supports FAT 16 or FAT 32.
- SHARP cannot guarantee that all USB memory devices will work on this audio system.
- USB cable is not recommended for use in this audio system to connect to USB memory device. Use of the USB cable will affect the performance of this audio system.
- This USB memory cannot be operated via USB hub.
- The USB terminal in this unit is not intended for a PC connection.
- External HDD-storage cannot be played back via USB terminal.
- If the data inside the USB memory is large, it may take longer time for the data to be read.
- This product can play WMA and MP3 files. It will automatically detect the file type being played. If unplayable file is played on this product, "Not Support" is indicated and the file will be automatically skipped. This will take a few seconds. If abnormal indications appear on the display due to the unspecified file, turn off the unit and then turn it on again.
- This product relates to USB mass storage devices and MP3 players. It may however face some irregularities due to various unforeseen reasons from some devices. Should this happen, turn off the unit and then turn it on again.
- MP3 player will not be charging in other than USB function. However, charging ability depends on type of MP3 player used.

The following functions are the same as CD operations:

	Page
Various disc functions	9
Random play	9
Repeat play	10
Programmed play (MP3/WMA)	10

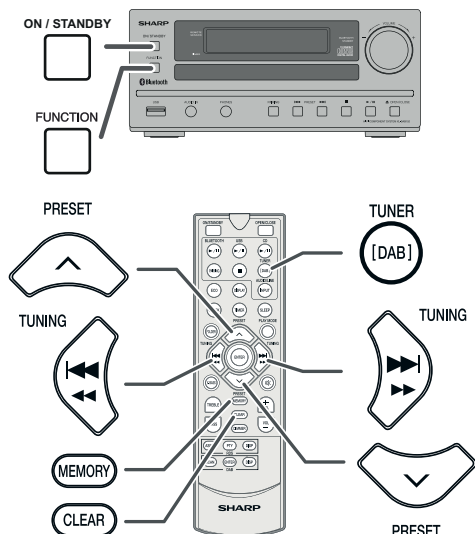
Notes:

- If USB memory device is not connected, "USB No Media" will be shown on the display.
- Fast forward/reverse is invalid when playing back a variable bitrate file.

Notes:

- This unit only supports "MPEG-1 Audio Layer-3" format. (Sampling Frequency is 32, 44.1, 48kHz)
- Playback order for MP3 files may differ depending on the writing software used during file download.
- Bitrate which is supported by MP3 is 32~320 kbps, WMA is 64~160 kbps.
- Files without MP3/WMA format cannot be played back.
- Playlists are not supported on this unit.
- This unit can display Folder Name or File Name up to 32 characters.
- Total number of folders read is 999 including folder with non-playable file. However, the display shows only folder with MP3/WMA files.
- The display playback time may not be displayed correctly when playing back a variable bitrate file.
- WMA meta tag also supports title, artist and album name which are recorded in WMA files. Copyright protected WMA files cannot be played back.

Listening to the radio



■ Tuning

- 1 Press the ON/STANDBY button to turn the power on.
- 2 Press the TUNER button (remote control) or FUNCTION button (main unit) repeatedly to select FM Stereo or FM Mono.
- 3 **● Manual tuning:**
Press the TUNING (◀▶ or ▶▶) button repeatedly to tune in to the desired station.
● Auto tuning:
Press and hold the TUNING (◀▶ or ▶▶) button. Scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING (◀▶ or ▶▶) button again.
- When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light up. Finally, the station name will appear.
- Full auto tuning can be achieved for RDS stations "ASPM", see page 13.

To receive an FM stereo transmission:

- Press the TUNER button to select stereo mode. "ST" indicator will be displayed. "▶▶" and "◀▶" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the TUNER button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

■ Memorising a station

You can store 30 FM stations in memory and recall them at the push of a button. (Preset tuning)

- 1 Perform steps 2 - 3 in "Tuning".
- 2 Press the MEMORY button.



- 3 Within 30 seconds, press the PRESET (◀ or ▶) button to select the preset channel number. Store the stations in memory, in order, starting with preset channel 1.
- 4 Within 30 seconds, press the MEMORY button to store that station in memory. If the "MEM" and preset number indicators disappear before the station is memorised, repeat the operation from step 2.
- 5 Repeat steps 1 - 4 to set other stations, or to change a preset station. When a new station is stored in the memory, the station previously memorised for that preset channel number will be erased.

Note:

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

■ To recall a memorised station

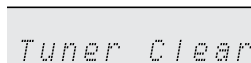
Press the PRESET (◀ or ▶) button to select the desired station.

■ To scan the preset stations

- 1 Press and hold the PRESET (◀ or ▶) button until the preset number flashes. The programmed stations will be tuned in sequentially, for 5 seconds each.
- 2 Press the PRESET (◀ or ▶) button again when the desired station is located.

■ To erase entire preset memory

- 1 Press the ON/STANDBY button to turn the power on.
- 2 Press the FUNCTION button (main unit) repeatedly or TUNER button (remote control) to select Tuner function.
- 3 In Tuner function, press and hold the CLEAR button (remote control) until "Tuner Clear" appears.



Using the Radio Data System (RDS)

RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sport, music, etc.

When tuned to an RDS station, "RDS" and the station name will be displayed.

"TP" (Traffic Programme) will appear on the display when the received broadcast carries traffic information, and "TA" (Traffic Announcement) will appear whilst a traffic information is on air."

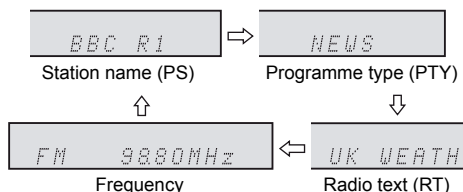
"PTY" (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is received.



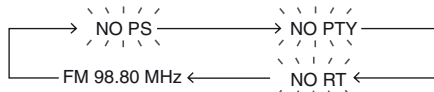
Information provided by RDS

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

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



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:



Using the Auto Station Programme Memory (ASPM)

While in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 30 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).



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



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



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 30 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" and "PTY TI" will appear alternately for about 6 seconds.

Using the Radio Data System (RDS) (continued)

- 3 Within 6 seconds, press the TUNING (◀▶ or ▶▶) button to select the programme type.



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.

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



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)

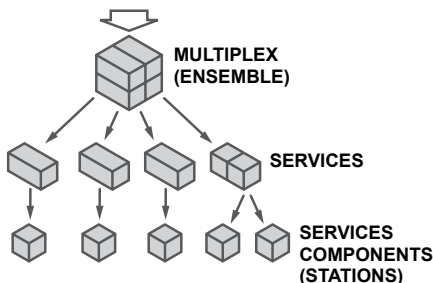
NEWS	POP M	SOCIAL	FOLK M
AFFAIRS	ROCK M	RELIGION	DOCUMENT
INFO	EASY M	PHONE IN	TEST
SPORT	LIGHT M	TRAVEL	ALARM
EDUCATE	CLASSICS	LEISURE	NONE
DRAMA	OTHER M	JAZZ	TP
CULTURE	WEATHER	COUNTRY	TA
SCIENCE	FINANCE	NATION M	
VARIED	CHILDREN	OLDIES	

Listening to the DAB+

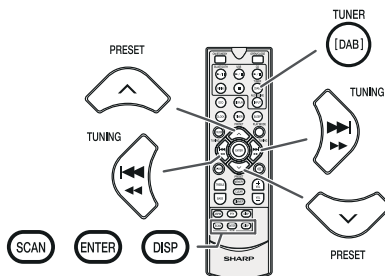
■ About DAB+ (Digital Audio Broadcasting)

Digital Audio Broadcasting is a digital transmission system where audio signals are converted to digital signals for broadcasting. DAB+ is broadcast as a group of data called multiplex (ensemble) which may contain one or more stations (services). Each station contains a primary service and there may be one or more secondary services. This allows several programmes or services to be transmitted on a single frequency.

DAB + SIGNAL

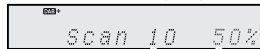


■ Auto Scan



When turned on for the first time, the unit scans radio stations automatically to create a station list. You can make the Auto Scan again when you move the unit to other areas or add multiplex channels to the station list.

- 1 Press the TUNER [DAB] button until "DAB" appears on the display.
- 2 Press DAB SCAN button on the remote control for more than 3 seconds. Scanning begins.



The number of received station The scanning progress

The number of stations found and the scanning process are shown on the display.

After the scan:

The stations will be stored in alphanumeric order and the first station on the list will be selected and you will hear it through the speakers.

- To listen to other stations, see "Selecting a station in the station list" on page 15.

Notes:

- If no station is found, "No Service" appears.

Listening to the DAB+ (continued)

Selecting a station in the station list

You can manually store stations which Auto Scan cannot find. If reception is poor, you can adjust the sensitivity. Manual tune is only available after Auto Scan. Perform Auto Scan first.

- 1 Press the TUNER [DAB] button until "DAB" appears on the display.
- 2 While receiving a DAB+ station, press the TUNING (◀ or ▶) to select the desired station.

STATION1

The number of received station

STATION2

The name of the station being selected

- 3 Within 10 seconds, press the DAB ENTER button on the remote control to tune into the desired station.

STATION2

Manual tune

Once a DAB+ station is received, you can select stations in the station list.

- 1 Press the TUNER [DAB] button until "DAB" appears on the display.
- 2 Press the DAB SCAN button
- 3 Within 10 seconds, press the TUNING (◀ or ▶) to select the DAB+ frequency.
- 4 Within 10 seconds, press the DAB ENTER button.

SR 174.92MHz

9B 204.64MHz

12D G 98%

(G: Good,
B: Bad)

- Reception sensitivity appears. The percentage number indicate the current level.
 - If the level is too low, move the aerial or unit to improve reception.
- 5 Press the DAB ENTER button again to store the station and exit manual tune.

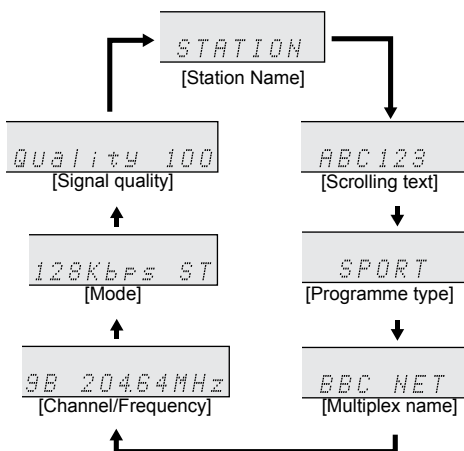
Changing the information display

You can switch DAB+ display information.

Press the DAB DISP button.

Each time the button is pressed, the information display changes in the following order.

When "No Service" appears, the DAB DISP button does not allow you to change the display.



[Station Name]

Station name is displayed. (set by default)

[Scrolling text]

Information scrolls across the display when sent from the station.

[Programme type]

A description of the type of content being broadcast by the station.

[Multiplex name]

The name of the multiplex (ensemble) which provides the current service.

[Channel/Frequency]

The DAB+ channel and frequency for the station. (Frequency is displayed to two decimal places)

[Mode]

The data transfer speed and channel type (stereo or mono) appear.

[Signal quality]

The signal quality is displayed as a number (0 - 100). [85-100: Good, 70-84: Fair, 0-69: Poor]

Changing the information display (continued)

■ Memorising a station

You can store 30 DAB stations in memory and recall them at the push of a button. (Preset tuning)

- 1 Tune to the desired DAB station.
- 2 Press the MEMORY button.



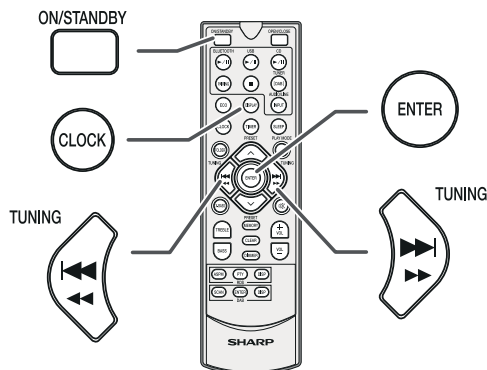
- 1 Within 30 seconds, press the PRESET (✓ or ∧) button to select the preset channel number. Store the stations in memory, in order, starting with preset channel 1.
- 2 Within 30 seconds, press the MEMORY button to store that station in memory. If the "MEM" and preset number indicators disappear before the station is memorised, repeat the operation from step 2.
- 3 Repeat steps 1 - 4 to set other stations, or to change a preset station. When a new station is stored in the memory, the station previously memorised for that preset channel number will be erased.

■ DAB Frequency table (BAND III)

Frequency	Label	Frequency	Label
174.928 MHz	5A	208.064 MHz	9D
176.640 MHz	5B	209.936 MHz	10A
178.352 MHz	5C	211.648 MHz	10B
180.064 MHz	5D	213.360 MHz	10C
181.936 MHz	6A	215.072 MHz	10D
183.648 MHz	6B	216.928 MHz	11A
185.360 MHz	6C	218.640 MHz	11B
187.072 MHz	6D	220.352 MHz	11C
188.928 MHz	7A	222.064 MHz	11D
190.640 MHz	7B	223.936 MHz	12A
192.352 MHz	7C	225.648 MHz	12B
194.064 MHz	7D	227.360 MHz	12C
195.936 MHz	8A	229.072 MHz	12D
197.648 MHz	8B	230.784 MHz	13A
199.360 MHz	8C	232.496 MHz	13B
201.072 MHz	8D	234.208 MHz	13C
202.928 MHz	9A	235.776 MHz	13D
204.640 MHz	9B	237.488 MHz	13E
206.352 MHz	9C	239.200 MHz	13F

* Frequencies are displayed to two decimal places on this unit.

Setting the clock (Remote control only)



In this example, the clock is set for the 24-hour (0:00 - 23:59) display.

- 1 Press the ON/STANDBY button to turn the power on.
- 2 Press the CLOCK 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 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.

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

- 1 Clear all the programmed contents. [Refer to "Factory reset, clearing all memory" on page 19 for details.]
- 2 Perform "Setting the clock" from step 1 onward.

Timer and sleep operation (Remote control only)

Timer playback:

The unit turns on and plays the desired source (CD, TUNER, USB, AUDIO IN, LINE IN) at a preset time.

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

Once timer ("O" indicator):

Once timer play works for one time only at a preset time.

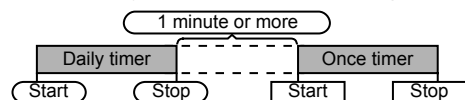
Daily timer ("DAILY" indicator):

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 program, and use the daily timer to wake up.

1 Set the daily and once timer (see this page).



■ 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 to be played.



- 1 Press the ON/STANDBY button to turn the power on.
- 2 Press the TIMER button.
- 3 Within 30 seconds, press the ◀▶ button to select "Once" or "Daily", and press the ENTER button.
- 4 Within 30 seconds, press the ◀▶ button to select "Timer Set", and press the ENTER button.
- 5 To select the timer playback source (CD, TUNER, USB, AUDIO IN, LINE IN), press the ◀▶ button. Press the ENTER button.
When you select the tuner, select a station by pressing the ◀▶ 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 ◀▶ button and then press the ENTER button.
- 7 Press the ◀▶ button to adjust the hour, and then press the ENTER button.
- 8 To adjust the minutes, press the ◀▶ 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/STANDBY button to enter the power standby mode. "TIMER" indicator lights up.



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 standby 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 socket, select "USB" or "AUDIO IN" or "LINE IN" in step 5. This unit will turn on or enter the power standby 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 the TIMER button.
- 2 Within 30 seconds, press the ◀▶ button to select "Once" or "Daily", and press the ENTER button.
- 3 Within 30 seconds, press the ◀▶ button to select "Timer Call", and press the ENTER button.

Cancelling the timer setting:

- 1 Turn the power on. Press the TIMER button.
- 2 Within 30 seconds, press the ◀▶ button to select "Once" or "Daily", and press the ENTER button.
- 3 Within 30 seconds, press the ◀▶ 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 the TIMER button.
- 2 Within 30 seconds, press the ◀▶ button to select "Once" or "Daily", and press the ENTER button.
- 3 Within 30 seconds, press the ◀▶ button to select "Timer On", and press the ENTER button.
- 4 Press the ON/STANDBY button to enter the power standby mode.

■ Sleep operation

The radio, disc, 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 SLEEP button repeatedly to select the time.
"Sleep 90" → "Sleep 80" ... → "Sleep 10" →
→ "Sleep Off"
- 4 "SLEEP" indicator will appear.
- 5 The unit will enter the power standby mode automatically after the preset time has elapsed. The volume will be turned down 1 minute before the sleep operation finishes.

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

To confirm the remaining sleep time:

- 1 While "SLEEP" is indicated, press the SLEEP button.

To cancel the sleep operation:

Press the ON/STANDBY button while "SLEEP" is indicated. To cancel the sleep operation without setting the unit to the standby mode, proceed as follows.

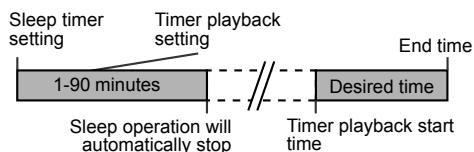
- 1 While "SLEEP" is indicated, press the SLEEP button.
- 2 Within 5 seconds, press the SLEEP button repeatedly until "Sleep Off" appears.

■ To use timer and sleep operation together

Sleep and timer playback:

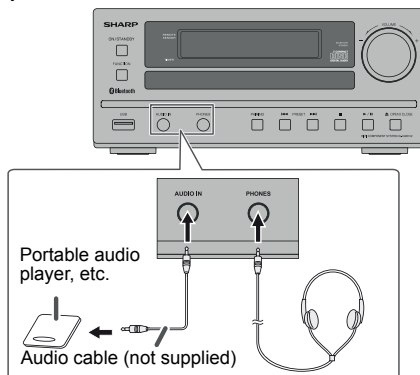
For example, you can fall asleep listening to the radio and wake up to CD the next morning.

- 1 Set the sleep time (see above, steps 1 - 5).
- 2 While the sleep timer is set, set the timer playback (steps 2 - 10, 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/STANDBY 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 1/8" (3.5 mm) 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 16)
● When a button is pressed, the unit does not respond.	● Set the unit to the power standby mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer page 20)
● 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 far from the <i>Bluetooth</i> stereo audio source device. ● The unit is not paired with the <i>Bluetooth</i> 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 battery is dead. ● The distance or angle is incorrect. ● The remote control sensor receives strong light.

■ Bluetooth

Symptom	Possible cause
● No sound is heard.	● The unit is too far from the <i>Bluetooth</i> stereo audio source device. ● The unit is not paired with the <i>Bluetooth</i> stereo audio source device.
● <i>Bluetooth</i> 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 <i>Bluetooth</i> stereo audio source device.

■ Tuner

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

■ 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.

■ CD player

Symptom	Possible cause
● Playback does not start.	● The disc is loaded upside down.
● Playback stops in the middle or is not performed properly.	● 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?

■ 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.

Troubleshooting chart (continued)

■ 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 standby 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.

■ Factory reset, clearing all memory

- 1 Press the ON/STANDBY 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.



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 standby 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 center, 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 unit.

■ General

Power source	AC 100 - 240 V ~ 50/60 Hz
Power consumption	AC: Power on: 22 W Power standby: 0.4 W (*1) Power standby: < 2 W (*2)
Dimensions	Width: 216 mm (8 - 1/2") Height: 96 mm (3 - 4/5") Depth: 285 mm (11 - 1/4")
Weight	2.1 kg (4.6 lbs.)
Bluetooth frequency band	2.400GHz - 2.480GHz
Compatible Bluetooth Profile	A2DP (Advanced Audio Distribution Profile), AVRCP (Audio/Video Remote Control Profile) Bluetooth 2.1 +EDR

(*1) This power consumption value is obtained when the *Bluetooth* standby mode is cancelled in the power standby mode. Refer to page 4 to cancel the *Bluetooth* standby mode.

(*2) This power consumption value is obtained when at the *Bluetooth* standby mode.

■ Amplifier

Output power	MPO: 50 W (25 W + 25 W) (10% T.H.D.) RMS: 50 W (25 W + 25 W) (10% T.H.D.) RMS: 42 W (21 W + 21 W) (1% T.H.D.)
Output terminals	Speakers: 6 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

■ 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	<ul style="list-style-type: none"> Complies with USB 1.1 (Full Speed)/2.0 Mass Storage Class. Support Bulk only and CBI protocol.
Support file	<ul style="list-style-type: none"> MPEG 1 Layer 3 WMA (Non DRM)
Bitrate support	<ul style="list-style-type: none"> MP3 (32 ~ 320 kbps) WMA (64 ~ 160 kbps)
Other	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> FAT 16 / FAT 32

■ Tuner/DAB

Frequency range	FM: 87.5 - 108 MHz DAB: 174.928 - 239.200 MHz
Preset	30 (FM stations) 30 (DAB)

■ Speaker

Type	2-way type speaker system 5 cm (2") tweeter 10 cm (4") woofer
Maximum input power	50 W
Rated input power	25 W
Impedance	6 ohms
Dimensions	Width: 139 mm (5-1/2") Height: 264 mm (10-3/8") Depth: 154 mm (6-1/6")
Weight	1.7 kg (3.71 lbs.)/each

SHARP

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1300 135 022

(LOCAL CALL COSTS APPLY WITHIN AUSTRALIA)

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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

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SPForm 040 (JUNE 2012)

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

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