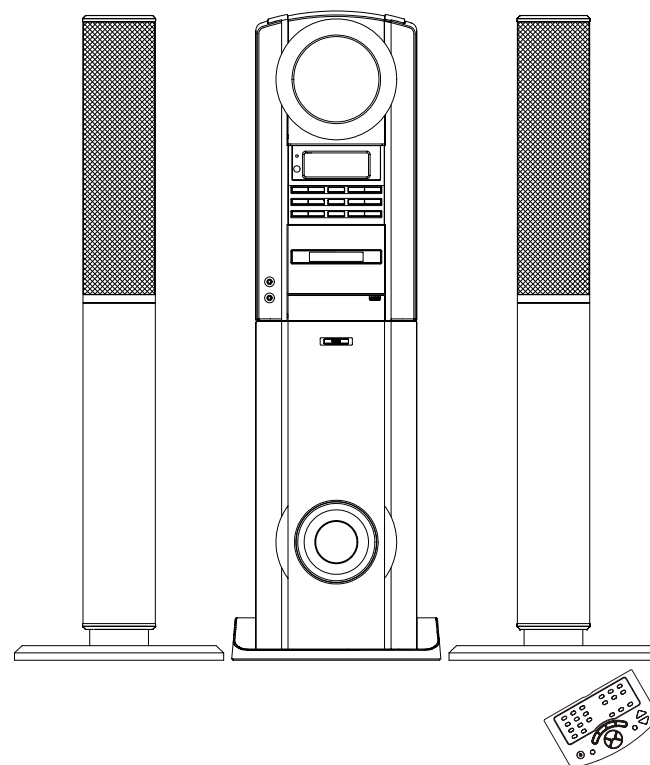


Goodmans

1790S

TOWER MUSIC SYSTEM



OWNERS MANUAL

Before operating this unit,
please read this Owner's Manual carefully

GOODMANS HELPLINE 0870 8730080

INTRODUCTION

This instruction manual is important to you. Please read it. In a short time shows exactly how to connect, operate, and adjust this unit for best performance. It can save you money. It shows simple things to do and check before you call for help and can save the cost of unnecessary service or call out charge.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS FIGHT VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE, DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Please retain all packaging material for future transportation of the unit or in the unlikely event that the unit needs to be returned for service.

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet European safety standards but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and interconnections between piece of equipment) are properly made in accordance with the supplied instructions. Switch off and withdraw the mains plug when making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation, or safety of your equipment.

DO be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged, in any way - switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family knows how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and never fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

Above all

- NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case this could result in a fatal electric shock.
- NEVER guess or take chances with electrical equipment of any kind.
- It is better to be safe than sorry!

IMPORTANT SAFEGUARDS

PRE FITTED MAINS PLUGS

For your convenience a mains plug with a fuse has been fitted to this appliance. For your safety please observe the following information.

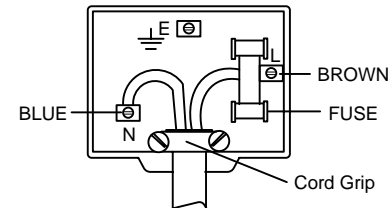
1. Should the fuse fail in the plug remove the plug from the wall socket and replace the fuse with a 3 Amp ASTA approved to BS1362 fuse.
2. Never use the plug without the fuse cover fitted. Replacement fuse covers are available from your dealer or most electrical retail outlets.
3. If the mains plug is cut off from the cable, rewire the replacement plug in accordance with the instruction given in this manual.
4. CAUTION: Under no circumstances should the discarded plug be inserted into the mains socket. To prevent a shock hazard carefully dispose of the discarded plug. Do not leave the plug lying around where children might see it.

WARNING: To prevent fire or shock hazard do not expose this unit to rain or moisture.

CAUTION: DANGEROUS VOLTAGES EXIST INSIDE THIS UNIT, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DISCONNECT FROM MAINS SUPPLY WHEN NOT IN USE.

MAINS PLUG WIRING DETAILS

accordance with the following wiring codes:



The wires in this mains lead are coloured in accordance with the following wiring codes:

Blue Neutral
Brown live

The wires in this mains lead must be connected to the terminals in the plugs as follow:

Blue Wire N or Black
Brown Wire L or Red

Only a 3 Amp fuse should be fitted in the plug or a 5 Amp fuse at the distribution board.

DRIPPING WARNING

The product shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the product.

VENTILATION WARNING

The normal ventilation of the product shall not be impeded for intended use.

WARNING: UNDER NO CIRCUMSTANCES MUST THE LIVE OR NEUTRAL WIRES BE CONNECTED TO THE EARTH TERMINAL IN A 3-PIN MAINS PLUG.



This symbol means that this unit is double insulated. An earth connection is not required.

CAUTION

CLASS 1 LASER PRODUCT

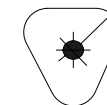
Use of Controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CLEANING

Always disconnect unit from power supply before attempting to clean it.
Use soft cloth moistened with soapy water, wipe gently.
Do not use solvents or abrasive materials.

LASER SAFETY

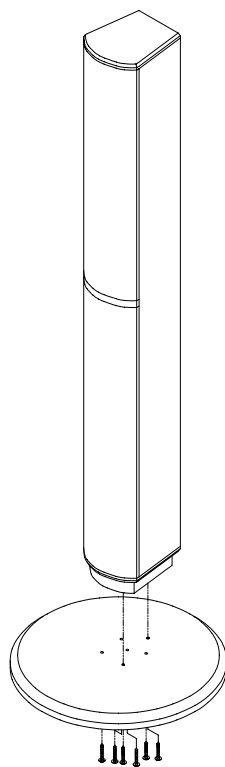
This unit employs a laser. Only qualified service personnel should attempt repair.



DANGER: INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION: HAZARDOUS LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED.

SPEAKER BOX INSTALLATION



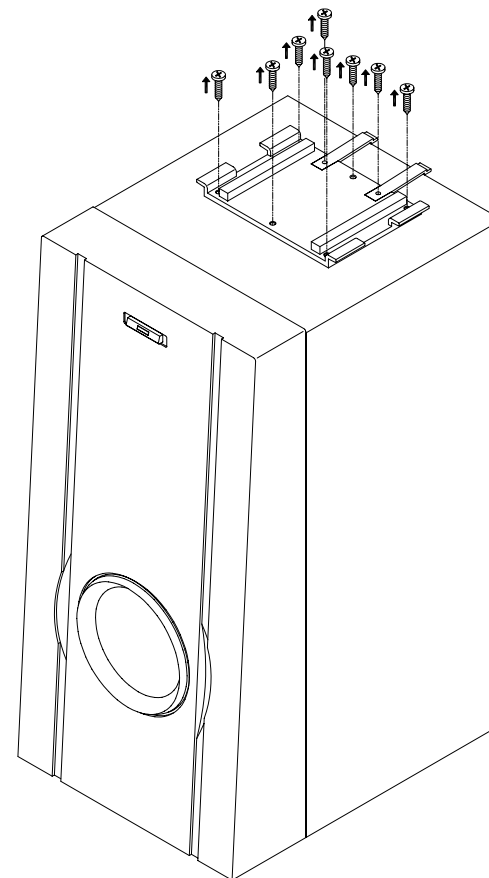
6 pcs SELF TAPPING SCREW

ITEM	DESCRIPTION	QUANTITY
1	SELF TAPPING SCREW TAPPING/WH HEAD	6 PCS

Disassemble Adapter Bracket

If you wish to place subwoofer and main-unit separately, we suggest to remove the adaptor-plate for better looking.

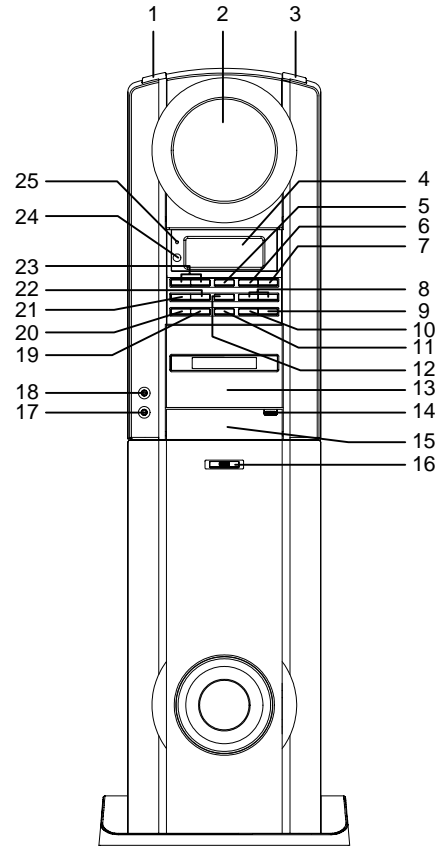
Release 8 pcs mounted screws by screw-driver then take out the adaptor bracket as per the below drawing.



LOCATION OF CONTROLS

MAIN UNIT FRONT

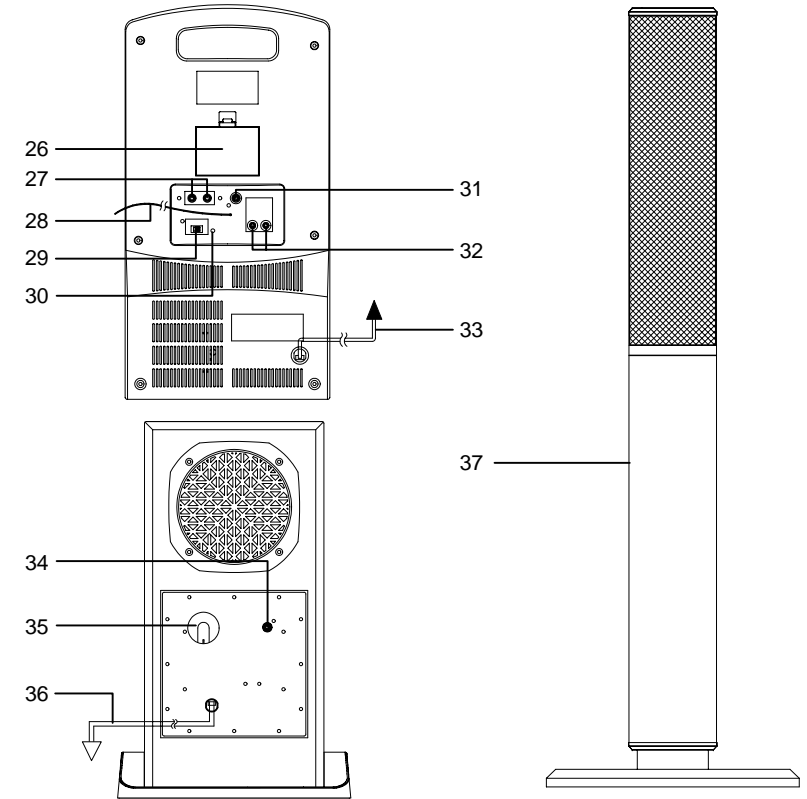
1. **POWER button**
Power on/off button to switch the system on
2. **CD door**
3. **CD DOOR OPEN/CLOSE button**
While the unit is on, press the button OPEN/CLOSE to open the cover in CD mode. And you can insert or remove CD
4. **LCD Display**
5. **CD button**
To activate operating mode CD
6. **▶|| CD PLAY/PAUSE button**
To start CD playback/short interruption of CD playback
7. **■ CD STOP button**
interrupting the CD playback/clearing the CD program
8. **Tune/Skip/Search ▶▶ or ◀◀ button**
Manual forward or backward tuning to stations, station search operation/CD forward or backward title selection/CD forward or backward search operation
9. **D-BASS button**
To get the rich bass sound
10. **Press EQ button**
To select "FLAT, ROCK, JAZZ, POP and CLASSIC" desired sound effect
11. **TAPE button**
To activate operating mode TAPE
12. **RADIO/BAND button**
To activate operating mode TUNER and to select the reception band
13. **Cassette door**
14. **Cassette Control Keys cover (Open/Close push area)**
15. **Cassette Control buttons (Inside Cover)**
Cassette control key buttons (RECORD, PLAY, REW, F.FWD, STOP/EJECT, PAUSE)
16. **Subwoofer ON/OFF switch**
To switch subwoofer on or off (the subwoofer light located right below the switch will be lighted up when the subwoofer is turned on.)
17. **Microphone jack (3.5mm)**
18. **Phones jack (3.5mm)**
19. **REMAIN/MODE button**
To toggle CD display between the individual playback and remain time/switching to time display (TIMER ON/OFF) / current time



20. **TIMER button**
To activate / deactivate the timer (see Timer section)
21. **MEMORY/CLOCK ADJ. button**
Tuner memory button/CD program button/clock setting button
22. **AUX button**
To activate operating mode AUX
23. **VOLUME UP + and DOWN - button**
To adjust desired volume
24. **IR indicator**
25. **STANDBY indicator**

LOCATION OF CONTROLS (CONT.)

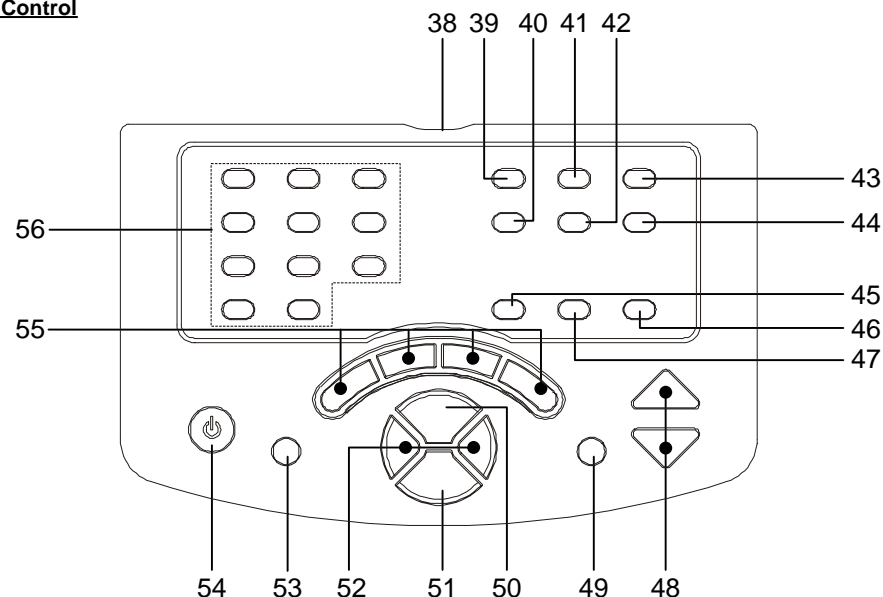
MAIN UNIT BACK



26. **Battery compartment (3 x "AA" size or UM3 batteries for back-up Tuner memory and clock)**
27. **AUX INPUT socket**
For connection of an additional audio appliance
28. **FM Antenna wire**
29. **BEAT CUT switch**
Uses to reduce the oscillation sound in AM (MW) record onto the cassette
30. **RESET switch**
If the set does not display information, or the data appearing are wrong, press the "RESET" switch with a sharp object, e.g. needle or ball point pen. The data must then be re-entered.
31. **Subwoofer Output socket**
32. **Speaker L & R socket**
33. **Main Unit AC cord**
34. **Subwoofer Input socket**
35. **Subwoofer Volume Control knob**
36. **Subwoofer AC cord**
37. **Speaker**

LOCATION OF REMOTE CONTROLS

Remote Control



38. Remote Control Transmitter

39. RANDOM button

CD playback in random sequence

40. MEMORY/CLOCK ADJ. button

Tuner memory/CD memory/Clock setting.

41. INTRO button

Plays 10 sec. Of each CD track

42. MEMORY-UP/REPEAT button

Step-wise activating the programmed transmitting stations in increasing order/Repeat function for CD mode

43. REMAIN/MODE button

To toggle CD display between the individual playback and remain times/switching to time display (TIMER ON/OFF)/current time

44. STEREO/MONO button

Stereo/mono switching for FM stations

45. MUTE button

Sound pause, to switch off the sound reproduction

46. PRESET EQ button

To select FLAT, ROCK, JAZZ, POP and CLASSIC

47. D-BASS button

To get the rich bass sound

48. VOLUME Up + and Down - buttons

To adjust to the desired volume

49. CD DOOR OPEN/CLOSE button

Open and close the CD door in CD mode

50. PLAY/PAUSE button

To switch on operating mode CD, start CD playback/short interruption of CD playback

51. STOP button

Interrupting the CD playback/Clearing the CD program memory

52. CD Skip-Search, Tuning +/- buttons

Manual tuning to stations, station search operation/CD reverse, forward title selection/CD reverse, forward search operation

53. BAND button

To select the radio reception band

54. POWER button

Switches the unit to and from standby mode

55. FUNCTION MODE button

To select CD/TAPE/TUNER-BAND/AUX

56. 0 - 9, +10 NUMERIC buttons

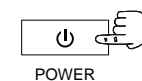
To recall TUNER preset stations/to recall CD tracks

OPERATING INSTRUCTION

POWER ON/OFF

1. Press the POWER button (1) or (54) to turn the unit 'ON'.

Note: The LCD display illuminate.

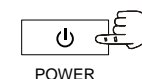


2. You can now select your desired music source by pressing one of the function buttons CD (5), TAPE (11), RADIO/BAND (12), AUX (22) or (55).

NOTE : When TAPE mode is selected, "TAPE" will show in the display.



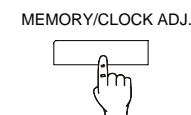
3. To switch to POWER OFF, press the POWER button (1) or (54) to turn the unit 'OFF'.



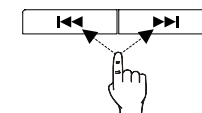
SETTING THE TIME

When the unit is first connected to an AC OUTLET the display shows "0:00". To set the clock to the current time proceed as follow:

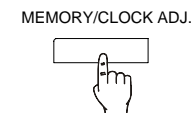
1. During unit at off mode, press the MEMORY/CLOCK ADJ. button (21)/(40) once, the hour digits begin to flash.



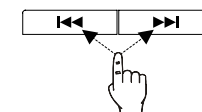
2. Press the CD SKIP Forward or Backward buttons (8) or (52) to adjust the hour.



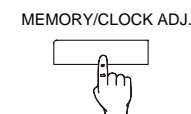
3. Press the MEMORY/CLOCK ADJ. button (21) / (40) again, the minute digits begin to flash.



4. Press the CD SKIP Forward or Backward buttons (8) or (52) to adjust the minute.



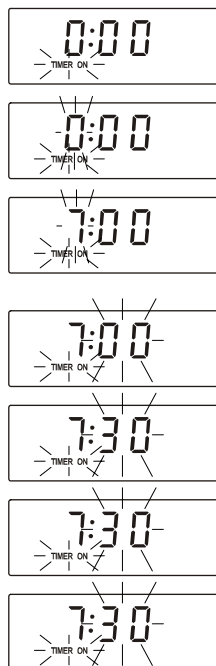
5. Press the MEMORY/CLOCK ADJ. button (21) / (40) once more, the display stops flashing and the clock begins to run.



TIMER ON/OFF SETTING

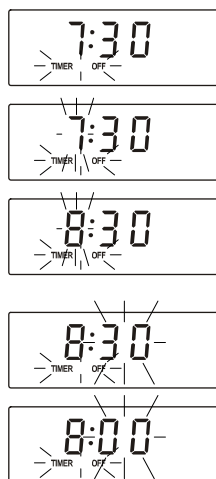
NOTE: The clock should be adjusted before Timer On/Off setting.

1. Press the REMAIN/MODE button (19)/(43) once, the TIMER ON indicator begin to flash.
2. Press the MEMORY/CLK ADJ. button (21)/(40) once, the hour digits begin to flash.
3. Press the CD SKIP forward or backward buttons (8) or (52) to adjust the hour.
4. Press the MEMORY/CLK ADJ. button (21)/(40) again, the minute digits begin to flash.
5. Press the CD SKIP forward or backward buttons (8) or (52) to adjust the minute.
6. Press MEMORY/CLK ADJ. button (21)/(40) once more, then the Timer On adjustment is finished with the "ON" display keep turning ON.

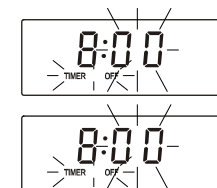


Note: To resume Timer ON/OFF setting, similar operation by using TIMER button

8. To set Timer Off, press the REMAIN/MODE button (19)/(43) until the TIMER OFF indicator begin to flash.
9. Press the MEMORY/CLK ADJ. button (21)/(40) once, the hour digits begin to flash.
10. Press the CD SKIP forward or backward buttons (8) or (52) to adjust the hour.
11. Press the MEMORY/CLK ADJ. button (21)/(40) again, the minute digits begin to flash.
12. Press the CD SKIP forward or backward buttons (8) or (52) to adjust the minute.



13. Press the MEMORY/CLK ADJ. button (21)/(40) once more, then the Timer Off adjustment is finished with the "OFF" display keep turning ON.



Timer ON/OFF displays:



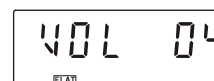
14. To cancel the Timer Off setting, press REMAIN/MODE button (19)/(43) until Timer Off setting mode, the "OFF" display keep turning ON. Press TIMER button (20) to cancel Timer Off setting, the "OFF" display will flash.

Note: After setting Timer On and/or Timer off, press MODE/REMAIN to return to current time in standby mode.

BASIC OPERATION

Electronic volume control

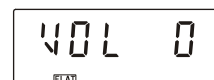
Electronic volume control display



1. Press VOL-UP or DOWN button (23)/(48) to increase or reduce the volume, the volume level will be shown in the LCD display (4)
2. Holding down the VOL UP/DOWN button will result in continuous increase or decrease of the volume.

Muting Function

If the MUTE button (45) is pressed, the audio output will be muted, and "VOL 0" is shown for 1 second.



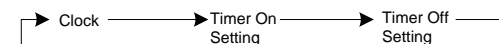
Then return to the original display. "VOL 0" will appear for every 4 seconds. One more press the button will resume the volume.

Subwoofer Control

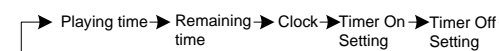
Press subwoofer ON/OFF (16) button to switch on the subwoofer (Note: Make sure the voltage is correct before plug in AC cord to outlet). Rotate volume (35) control knob to clockwise (higher vol. level) or anti-clockwise (lower) until desired volume obtained.

Switching the display

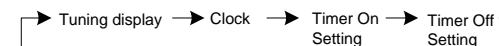
- Pressing REMAIN/MODE button (19)/(43) during the power Off mode results in the following changes:



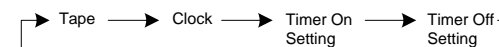
- Pressing MODE/REMAIN button during the CD playing mode results in the following changes.



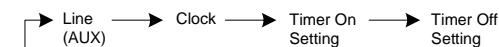
- Pressing MODE/REMAIN button in the tuner mode results in the following changes.



- Pressing MODE/REMAIN button in the tape mode results in the following changes.



- Pressing MODE/REMAIN button in the AUX mode results in the following changes.

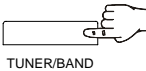


LISTENING TO THE RADIO

- 1. Press the POWER button (1)/(54) to turn the system 'ON'.
- 2. Press the RADIO/BAND button (12)/(55) to select the radio function.

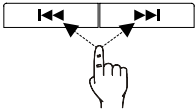


- 3. Press the RADIO/BAND button (12) or (55) or (53) [BAND] repeatedly to select AM (MW) or FM band.



STORING PRESET STATIONS

- 1. Tune to the station you wish to store.



The unit enables you to program 20 stations of FM and 12 stations of AM band.

- 2. Press the MEMORY button (21)/(40) once.



- 3. Press the MEM-UP/REPEAT button (42) or enter desired numeric buttons directly on remote control repeatedly to set the desired preset station number.



PRESET EQUALIZATION

Press the PRESET EQ button (10)/(46) repeatedly to cycle through the preset EQ show on the LCD display -- FLAT, ROCK, JAZZ, POP and CLASSIC.

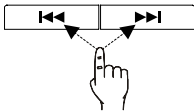
Headphones socket

Headphones socket "PHONES" (18) for headphones with 16-32 Ohm impedance (3.5mm jack). Use corresponding adaptors (specialist shops) if you have different plugs. The speakers are automatically switched off when the headphones are being used.

CAUTION:

Listening at high power for a long moment could damage users' ears.

- 4. Press the TUNING UP or DOWN buttons (8) or (52) to tune to the desired station.



Manual Tuning - Press and hold the TUNING UP or DOWN buttons (8) or (52) until the display approaches your desired station. Then tap the buttons repeatedly until the display shows the exact frequency.

Auto tuning - Press the TUNING forward or backward buttons momentarily and release. The tuner will move up or down to the next available station.

- 5. When finished listening, press the POWER button (1)/(54) to shut the system OFF.



- 4. Press the MEMORY button (21)/(40) again. The station is stored.



- 5. To store other stations, repeat above steps.

RECALLING PRESET STATION

Press the MEM-UP/REPEAT (42) button on remote control repeatedly to select the desired station.

X-Bass function

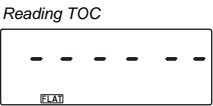
Press the D-BASS button (9)/(47), the Bass-Boosted mode can be set. Once more press this button can cancel the D-Bass.

Mic mixing function

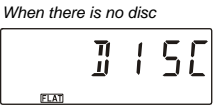
- 1. Select the desired mode (CD/Tape/Tuner/AUX). Connect microphone plug to MIC socket (17).
- 2. Place microphone away from the sound source.
- 3. If howling occurs, decrease volume or remove microphone as far as possible from the speakers.

PLAYING COMPACT DISCS

- 1. Switch on the power and press the CD button (5)/(55) to select the CD mode.



- 2. If there is no CD inside, a "DISC" display will appear.

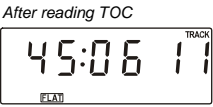


Loading a disc

- 1. Press the DOOR OPEN button (3)/(49) one time to open the CD door.



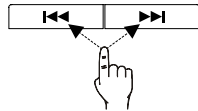
- 2. Put a disc inside and then press the DOOR OPEN button one time to close the CD door. After that, reading TOC will start.



Note: This unit is CD-R/RW compatible.

Skip and Search Function

Press the SKIP forward or backward buttons (8) or (52) momentarily.



	IN PLAY MODE		IN STOP MODE
	PRESS ONCE	PRESS TWICE	PRESS ONCE
⏮	BACK TO THE BEGINNING OF THE CURRENT TRACK	PREVIOUS TRACK	PREVIOUS TRACK
⏭	NEXT TRACK		NEXT TRACK

Press and hold the SKIP button during playback :



: FAST BACKWARD



: FAST FORWARD

NOTE : During the search mode low level audio will be heard to assist in locating the correct point in the track.

To repeat a track or disc

Press MEM-UP/REPEAT button (42) on remote control one time, "one track repeat" will be active.(REPEAT Flashing)



With one more press, "all track repeat" will be active. (REPEAT steady on)

With one further press, the repeat mode is cancelled.



Random play function

Press RANDOM button (39) on remote control in stop mode then PLAY/PAUSE to start random play. Press once again to change normal playing mode.



Intro play function

During the stop condition, pressing the INTRO button (41) on remote control then PLAY/PAUSE to start the intro playing. After that the first 10 seconds of each song will be played.

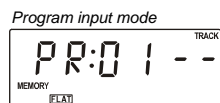
If the INTRO button is pressed again, the CD will change to normal playing mode.



PROGRAMMED PLAYBACK

The CD player enables you to program up to 16 tracks in a sequence of your choice. First select CD stop mode.

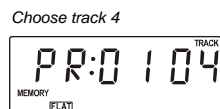
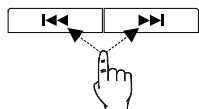
1. Press the MEMORY button (21)/(40) one time.



5. Pressing PLAY/PAUSE button (6)/(50) to play the program tracks.



2. Press the SKIP forward or backward buttons (8) or (52) to select the desired track to be programmed.



Note: If the program is already exit (MEMORY indicator still turned on), press the PLAY/PAUSE button, the program play will start again.

Clear the program

Press the STOP button (7)/(51) in stop mode until MEMORY indicator goes off on LCD display in order to cancel the preset programs.

- Pressing MEMORY button one time, then track 4 is stored
- Continue to program, repeat steps 2 and 3.

Reviewing programs

Press the MEMORY button repeatedly. The track number programmed on each program number will be displayed.

PLAYING CASSETTE TAPE

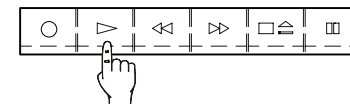
PLAYBACK

- Switch on the power and press the TAPE button (11)/(55).

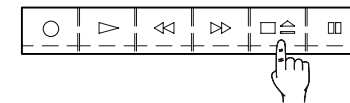


- Open the cassette key cover by pushing the OPEN/CLOSE area of Cassette Cover (14) to reveal the cassette buttons (15). Press STOP/EJECT button to open the cassette door. Insert a prerecorded tape with exposed tape downwards and full spool to the left, closed the cassette door.

- To playback, press down the PLAY button.

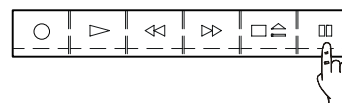


- To stop Playback, press down the STOP/EJECT button



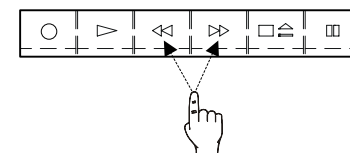
To suspend playback

Press down PAUSE button.



To Fast Forward or Rewind tape

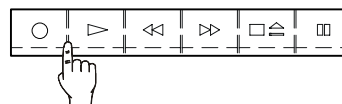
Press down REW or F.FWD button.



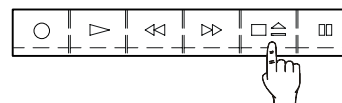
To resume playback, press the PAUSE button again.

TAPE RECORDING From TUNER

- Press the RADIO/BAND button (12)/(55) to select the TUNER mode.
- Follow steps 1, 2, 3 and 4 in "LISTENING TO THE RADIO" to tune in the station you wish to record.
- Insert a blank tape to cassette compartment with exposed tape downward and full spool to the left and then close the cassette door.
- Press down the RECORD and PLAY buttons to start recording.

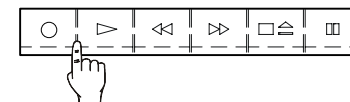


- Press STOP/EJECT button to stop recording.

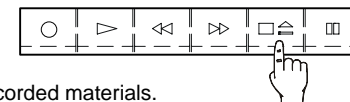


TAPE RECORDING From CD - Synchronized Recording from CD player

- Switch on the power, press the CD button (5)/(55) to select the CD mode and then open the CD door by pressing DOOR OPEN CD button (3)/(49).
- Put a disc inside and then press the CD DOOR OPEN button one time to close the CD door.
- Insert a blank tape to Cassette section cassette compartment with exposed tape downward and full spool to the left then close the cassette door.
- Press down the RECORD and PLAY button to start recording, CD will start play automatically from beginning of track 1 or other tracks (currently playing).



- Press STOP/EJECT button to stop recording and CD playback will stop too.

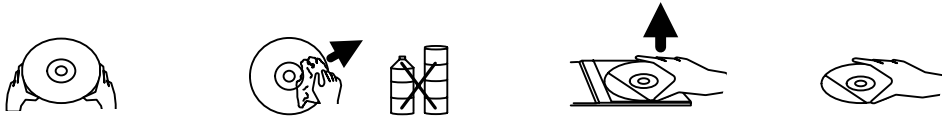


- Note: 1. Return to Tape mode, rewind the tape to listen to recorded materials.
2. Recording from AUX mode or through microphone (Tape mode): similar to above descriptions.

CARE AND MAINTENANCE

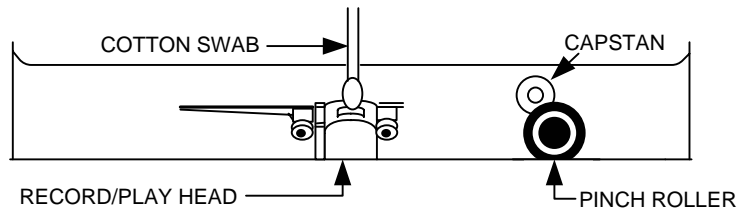
COMPACT DISC CARE

- Treat the disc carefully. Handle the disc only by its edges. Never allow your fingers to come in contact with the shiny, unprinted side of the disc.
- Do not attach adhesive tape, stickers etc., to the disc label.
- Clean the disc periodically with soft, lint-free, dry cloth. Never use detergents or adhesive cleaners to clean the disc. If necessary, use a CD cleaning kit.
- If disc skips or gets stuck on a section of the disc, it is probably dirty or damaged (scratched).
- When cleaning the disc, wipe in straight lines from the centre of the disc to the edge of the disc. Never wipe in circular motions.
- To remove a disc from its storage case, press down on the centre of the case and lift the disc out, holding it carefully by the edges.
- Fingerprints and dust should be carefully wiped off the disc's recorded surface with a soft cloth. Unlike conventional records, compact disc have no grooves to collect dust and microscopic debris so gently wiping with a soft cloth should remove most particles.



TAPE HEAD CLEANING

The tape heads, pinch roller and capstan require periodic cleaning. This removes particles of the metal oxide coating that wear off the tape and accumulate on these parts and impair performance. Switch off the power, press the Stop/Eject Key to open the cassette door, and press the Play Key. Clean the tape heads, pinch roller and capstan with a soft cloth or cotton swab dampened in isopropyl alcohol or special tape head cleaner. NOTE: Never use any metal objects on or near the tape heads. Do not allow any cleaning material to fall into the tape assembly.



CLEANING THE UNIT

- To prevent fire or shock hazard, disconnect your unit from the AC power source when cleaning.
- The finish on the unit may be cleaned with a dust cloth and cared for as other furniture. Use caution when cleaning and wiping the plastic parts.
- If the cabinets become dusty wipe them with a soft dry dust cloth. Do not use any wax or polish sprays on the cabinets.
- If the front panel becomes dirty or smudged with fingerprints it may be cleaned with a soft cloth slightly dampened with a mild soap and water solution. Never use abrasive cloths or polishes as these will damage the finish of your unit.

Caution: never allow any water or other liquids to get inside the unit while cleaning.

TROUBLESHOOTING GUIDE

Should this unit exhibit a problem, check the following before seeking service.

Symptom	Possible cause	Solution
Radio	Noise or sound distorted on AM or FM broadcasts.	Station not tuned properly for AM or FM
	FM : Line antenna is not extended.	Retune the AM or FM broadcast station.
	AM : Unit is not positioned correctly.	Extend FM line antenna.
FM STEREO indicator does not light	FM MODE button is set to MONO position.	Rotate unit until best reception is obtained.
AM or FM, no sound.	TUNER Function button is not pressed.	Set FM MODE to FM STEREO position.
	Volume at minimum	Press TUNER function button.
		Increase Volume.

Cassette Player

No sound.	TAPE Function button is not pressed.	Press the TAPE Function button.
	Volume at minimum	Increase Volume
Sound distorted.	Dirty head.	Clean the head.
Speed varies	Tape old or worn.	Replace the tape.
	Dirty roller and capstan.	Clean roller and capstan.

Cassette Recorder

Will not record.	Press prevention tab removed	Cover hole with tape
Distorted sound on playback.	Defective tape or dirty tape head.	Replace tape or clean tape head

Compact Disc Player

CD Player will not play.	CD Function button is not pressed.	Press the CD Function button.
	CD is not installed or installed incorrectly.	Insert CD with label side out.
CD skips while playing.	Disc is dirty or scratched.	Wipe disc with cloth or use another disc.
Disc is inserted but CD player skips over spot and will not play,	Disc inserted upside down.	Insert disc properly.
	Disc is dirty.	Clean disc.
	Disc is non-standard.	Use correct disc.

SPECIFICATION
GENERAL

Power requirement	AC 230V~50Hz
	DC 4.5V “AA” size/UM-3 x 3 pcs for Tuner MEMORY back up
	DC 3V “AA” size/UM-3 x 2 pcs for Remote Handset
Power consumption	AC 40Watts
Weight	Approx. 17.1Kg
Dimension of:	
Main unit	Approx. 260mm(W) x 809mm(H) x 250mm(D)
Speaker	Approx. 260mm(W) x 800mm(H) x 260mm(D)
Operation temperature	+5°C - +35°C

RECEIVER SECTION

Receiving bands	AM(MW)/FM
Tuning range	AM(MW) 522-1620KHz
	FM 87.5-108MHz

CD PLAYER SECTION

Playback system	Compact Disc Digital Audio
DAC	4 times over sampling, 1 bit D/A converter.
Frequency response	100 - 20,000 Hz

CASSETTE SECTION

Recording system	4 tracks 2 channel stereo
Biasing system	AC bias, magnet erase
Frequency response	125 - 6300Hz
Wow and flutter	0.35% WRMS (JIS)

AUDIO SECTION

Power output	Maximum 7.5 Watts per channel
	Subwoofer: 15 Watts
Speaker impedance	3 ohms
Headphones impedance	8 - 32 ohms
AUX input sensitivity	0.5V

ACCESSORIES

Instruction Booklet	1
Remote Control Handset.....	1
Subwoofer cord	1

IMPORTANT NOTES

Hearing is very important to you and to us so please take care when operating this equipment. It is strongly recommended that you follow the listed guidelines in order to prevent possible damage or loss of hearing.

ESTABLISH A SAFE SOUND LEVEL

- Over time your hearing will adapt to continuous loud sounds and will give the impression that the volume has in fact been reduced. What seems normal to you may in fact be harmful.
- To guard against this BEFORE YOUR HEARING ADAPTS set the volume at a level. Slowly increase the level until you can hear comfortably and clearly and without distortion.
- Damage to your hearing is accumulative and is irreversible. Any ringing or discomfort in the ears indicates that the volume is too loud.
- Remember listening for prolonged period of time at high volume levels will harm your hearing.

Once you have established a comfortable listening level, DO NOT INCREASE THE SOUND LEVEL FURTHER.

The following list of typical sound levels may assist you in recognizing just how loud you have set the volume level.

DECIBEL Level (dB)	Example
30dB	Quiet library, soft whisper.
40dB	Living room, fridge freezer bedroom away from traffic.
50dB	Normal conversation, quiet office, light traffic.
60dB	Electric sewing machine.
70dB	Vacuum cleaner, hair dryer, noisy restaurant.

THE FOLLOWING NOISE CAN BE HARMFUL UNDER CONSTANT EXPOSURE

80dB	Average city traffic, alarm clock buzzer at 2 feet, food mixer.
90dB	Motorcycle, heavy goods vehicle, petrol lawn mower.
100dB	Pneumatic drill, chair saw, garbage truck, discotheque/night-club.
120dB	Rock band concert, thunderclap fast train passing by.

PERMANENT LOSS OF HEARING

140dB	THRESHOLD OF PAIN Gunshot 2 feet away, jet plane taking off.
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Goodmans Helpline 0870 8730080