

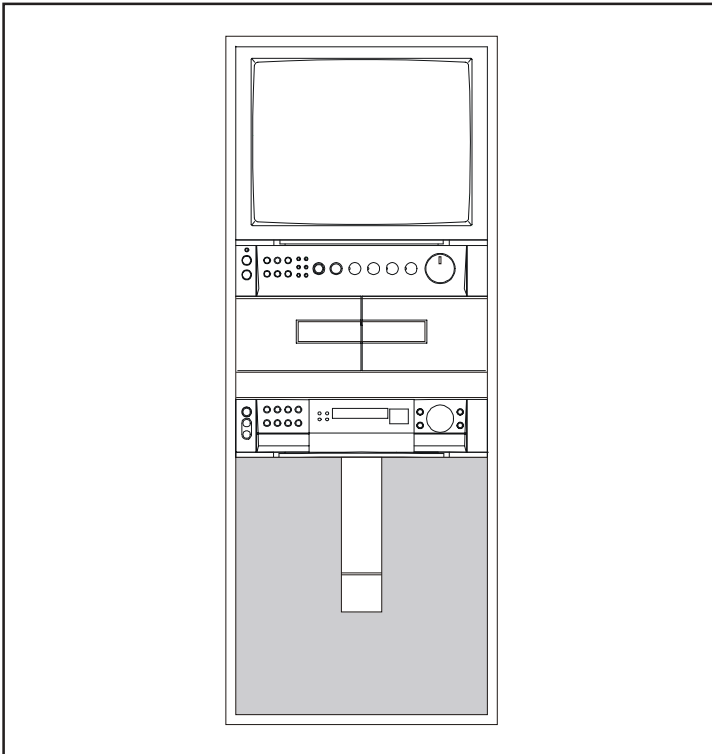
# Goodmans

XB16TV - XB16TV/2

## Home Entertainment System

CDG KARAOKE - TELEVISION

CD - VIDEO - CASSETTE



### CONTENTS

This product includes the following accessories

- |                |                     |
|----------------|---------------------|
| 1 x Microphone | 1 x Remote Handset  |
| 1 x Demo Disc  | 1 x UHF Loop Aerial |

Before operating this unit, please read this Owners Manual carefully

GOODMANS Product Information Helpline : (02392) 391100

## IMPORTANT SAFEGUARDS

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

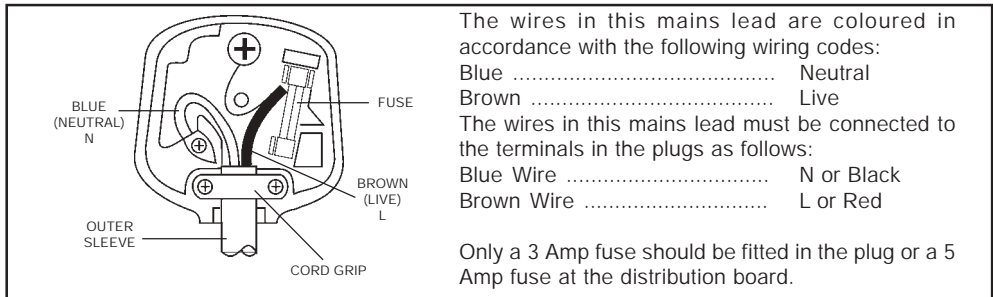
**CAUTION** : DANGEROUS VOLTAGES EXIST INSIDE THIS UNIT, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DISCONNECT FROM MAINS SUPPLY WHEN NOT IN USE.

### 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 remove the fuse and carefully dispose of the discarded plug. Do not leave the plug lying around where children might see it.

### MAINS PLUG WIRING DETAILS



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

**CAUTION** : WHEN OPERATING THIS UNIT ON 230V MAINS SUPPLY, PLEASE NOTE THAT WHEN THE POWER SWITCH IS IN THE OFF MODE, THIS DOES NOT DISCONNECT THE UNIT FROM THE MAINS SUPPLY HOWEVER, PLEASE BE ASSURED THAT IT IS PERFECTLY SAFE TO LEAVE THE UNIT CONNECTED TO THE MAINS SUPPLY.



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.

### 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.**

**GOODMANS Product Information Helpline : (02392) 391100**

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

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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 pieces of equipment) are properly made in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.
- DO** consult your dealer if you are ever in doubt of 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** 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 opening 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!

## **CLEANING THE UNIT**

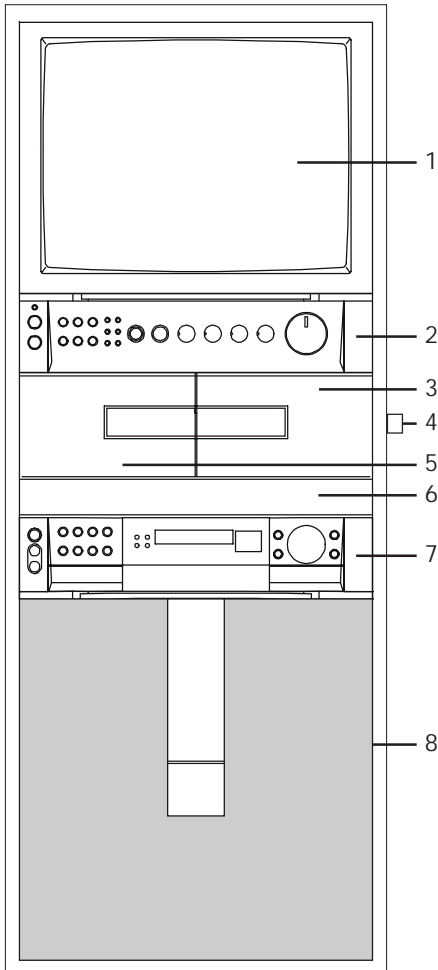
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### **WARNING**

AS WITH ALL MAINS POWERED UNITS, ALWAYS DISCONNECT THE MAINS PLUG FROM ITS SOCKET, BEFORE ATTEMPTING TO CLEAN THE UNIT. ONLY USE A SOFT CLOTH MOISTENED WITH WARM SOAPY WATER, DO NOT USE HARSH ABRASIVES OR CHEMICALS TO CLEAN WITH AS THIS WILL DAMAGE THE UNIT GRAPHICS OR FINISHING.

## IDENTIFICATION OF CONTROLS

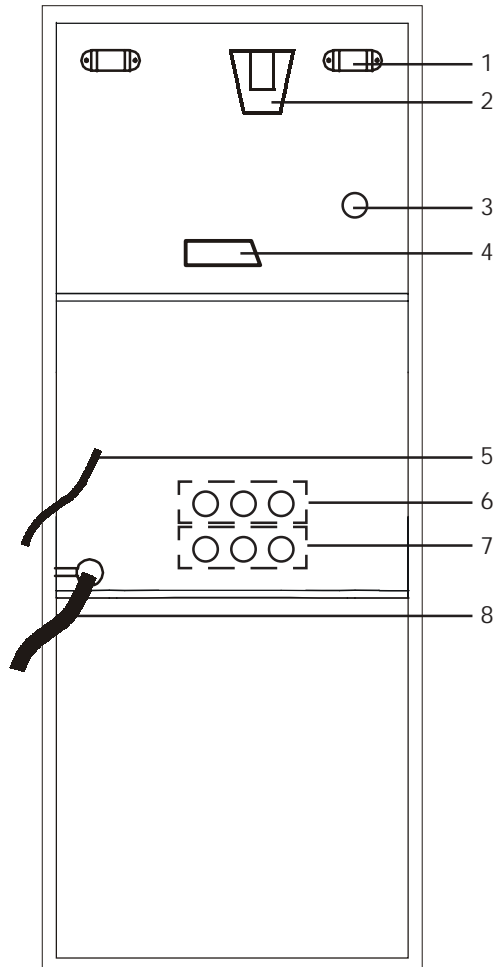
### FRONT VIEW



### FRONT VIEW

1. TV
2. MAIN CONTROL PANEL
3. CASSETTE DECK B (PLAYBACK ONLY)
4. POWER SWITCH
5. CASSETTE DECK A (RECORD/  
PLAYBACK)
6. CASSETTE KEY COVER
7. CD CONTROL PANEL
8. SPEAKER COMPARTMENT

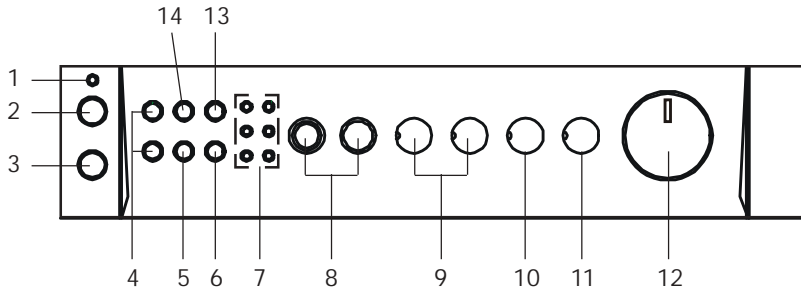
### BACK VIEW



### BACK VIEW

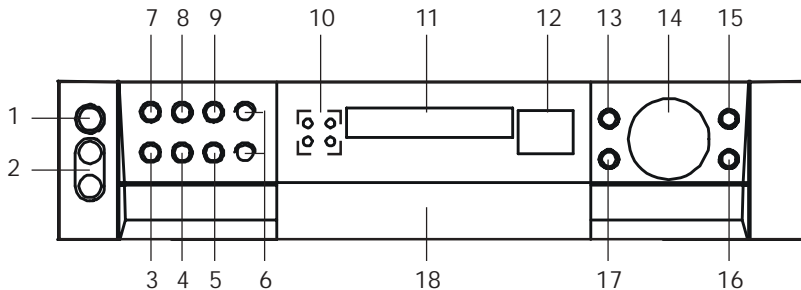
1. MIC HOOK
2. TV AERIAL HOLDER
3. TV AERIAL INPUT SOCKET (75 OHM)
4. SCART SOCKET
5. FM WIRE AERIAL
6. RCA INPUT SOCKET (AV2 IN)
7. RCA OUTPUT SOCKET
8. AC POWER CORD

## MAIN CONTROL PANEL (FOR TV AND KARAOKE OPERATION)



- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Standby LED</li> <li>2. Standby Power Switch</li> <li>3. Remote Sensor</li> <li>4. TV Programme Channel UP/DOWN</li> <li>5. TV Menu</li> <li>6. Mute</li> <li>7. Function Selection LED indicators</li> </ol> | <ol style="list-style-type: none"> <li>8. MIC-1, 2 Input Sockets</li> <li>9. MIC 1, 2 Volume Controls</li> <li>10. ECHO Control</li> <li>11. Mixing (Vocal/Music)</li> <li>12. Master Volume UP/DOWN</li> <li>13. TV Sleep Timer</li> <li>14. Function Selector/Mode</li> </ol> |
|---|---|

## CD CONTROL PANEL (FOR CD AND TUNER OPERATION)



- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Video In (AV1)</li> <li>2. Audio In (R/L)</li> <li>3. CD Door OPEN/CLOSE</li> <li>4. CD Programme</li> <li>5. CD Random</li> <li>6. CD Skip UP/DOWN</li> <li>7. CD PLAY/PAUSE</li> <li>8. CD STOP</li> <li>9. CD REPEAT (1/All)</li> </ol> | <ol style="list-style-type: none"> <li>10. CD Operation LED indicators</li> <li>11. Tuning Dial Scale</li> <li>12. CD Track No. Display</li> <li>13. TAPE Hi-Speed Dubbing</li> <li>14. Tuning Knob</li> <li>15. DBBS Button</li> <li>16. Auto Vocal Cut (AVC)</li> <li>17. Band Selector (MW/FM)</li> <li>18. CD Drawer</li> </ol> |
|--|---|

## UNIT FEATURES

The XB-16 operates on a power supply of 230V 50Hz AC

The XB-16 contains the following facilities:

- \* Built in 14" Colour TV
- \* 2 band radio (MW and FM)
- \* Digital audio CD and Graphic player
- \* A twin cassette player with high speed dubbing, one touch record and sequential playback capability
- \* 2 microphone input sockets (1 mic is supplied)
- \* PA (Public Address) facility
- \* Talk or sing along to music (demo disc supplied)
- \* Separate variable microphone volume and system volume controls
- \* Microphone ECHO control, mic mixing facility, DBBS and switchable auto vocal cut control
- \* Remote control for CD/CDG/TV operation.
- \* AUX IN - AUX OUT connections

## INSTALLATION

Carefully remove the unit from its packaging and place it on a firm flat surface.

Locate the unit in the room where direct light does not strike the screen.

Total darkness or a reflection on the picture screen can cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.

Allow enough space between the unit and the wall to permit ventilation.

Avoid excessively warm locations to prevent possible damage to the cabinet or premature component failure.

Do not install the unit in a location near heat sources such as radiator, air ducts, direct sunlight, or in a place somewhere like close compartment and close area.

Do not cover the ventilation openings when using the set.

Insert the mains plug into a 230 Volt 50 Hz AC mains supply socket.

**NOTE:** Save the carton and packing material, they will be useful if you ever have to transport the unit.

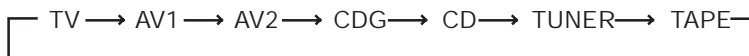
### CAUTION

#### MASTER VOLUME CONTROL KNOB

The Master volume control knob on the main control panel is an electronic type. To increase or decrease the master volume level, gently twist this control knob right or left. This control knob will not rotate  
**DO NOT TRY TO ROTATE IT !**

## INTRODUCTION - MODE/FUNCTION SELECTION

1. Press the POWER Switch (at the left side of cabinet) once to switch the unit to its standby mode. It will then be necessary to press the standby button on the front panel to turn the unit ON.
2. To select a function, press the function selector button MODE on the main unit front panel or the MODE or AV button on the remote control.
3. Each time the MODE or AV button is pressed the function selection will cycle as follows:



4. The respective indicator will illuminate as the function is selected. But for CDG, both AV1 and AV2 indicators will illuminate.

## AUXILIARY AUDIO/VIDEO INPUT AND OUTPUT

### AUX AV IN

1 set on the front panel (AV1) for easy connection of games consoles etc. The other set AV2 is installed at rear of the unit.

**NOTE :** Whilst the AUXILIARY input sockets may be used with a variety of external units already described in the manual. The use with a bass guitar is NOT recommended, if used damage may occur to the in built speaker.

### AUX AV OUT

There is one set of RCA sockets at the rear of the unit marked AUX OUT. This allows the audio signal generated by the XB16 to be connected to a separate amplifier for further amplification and the video signal to another TV as source. Output level is 1 volt maximum.

### SCART SOCKET

A scart socket is located at the rear of unit. Via this scart socket you may feed /input a VCR/DVD signal to XB16TV when function is set at AV1. The video signal generated by XB16 (TV, CDG or AV1/AV2) can also be output to external TV/VCR etc

## OPERATING THE RADIO

1. Unravel the FM Aerial wire located on the rear of the unit.
2. Press the STANDBY switch to turn the unit ON.
3. Set the Function mode to TUNER (TUNER LED will illuminate).
4. Set the Band switch to the FM or MW position.
5. Rotate the Tuning control until the desired station is found.
6. Adjust the MASTER VOLUME control to desired sound level. Press DBBS button to increase bass if desired. Make sure to set MIX control at mid-position and ECHO to minimum.

## OPERATING THE TAPE SECTION

### IMPORTANT

The Cassette keys are covered by the cassette key cover below the cassette compartment doors. To operate the Tape press the cassette key cover to unlatch the cover.

Both deck A and deck B may be used for playing back tapes. Only Deck A can be used for recording of tapes:

Both tape mechanisms employ auto stop facilities. This means that the tape and mechanism will automatically stop only when playing or recording tapes.

**NOTE:** When fast forward or rewinding a tape press the STOP/EJECT key when the tape has reached its end.

### PLAYING CASSETTE TAPES

Both DECK A and DECK B mechanisms may be used for playing back prerecorded cassettes.

1. Press the STANDBY switch to turn the unit ON.
2. Set the Function mode to TAPE (TAPE LED will illuminate).
3. Press the STOP/EJECT key on either of the cassette decks.
4. Insert a Pre-recorded cassette with the exposed tape facing downward and the full spool to the left.
5. Gently push the cassette door closed.
6. Press the PLAY key to start the tape playing.
7. Adjust the VOLUME control as desired and make sure that the MIX control is in the central position.
8. The AUTO STOP mechanism will activate when the end of tape is reached. Playback may be stopped at any time by pressing the STOP/EJECT key or the tape may be temporarily stopped by pressing the PAUSE key. Release the PAUSE key to continue playback.

**NOTE:** The AUTO STOP mechanism will not activate when using fast forward or rewind function, please ensure you press the STOP/EJECT key.

9. Press the F.FWD key to rapidly move the tape in a forward direction, press the STOP key and then the PLAY key to recommence tape play.  
Press the REWIND key to rapidly move the tape in the reverse direction. Press the STOP/EJECT key and then the PLAY key to recommence tape play.

### SEQUENTIAL PLAYING OF TAPES

1. Insert a prerecorded tape into DECK A and DECK B ensuring that the full spool is on the left. Gently push the cassette door closed.
2. Press the PLAY key on deck B. Play will now start
3. Press the PAUSE key and then the PLAY key on deck A.
4. When the tape reaches its end in deck B, the tape in deck A will automatically start to play until it reaches its end then it will automatically stop.

### RECORDING

Recordings are possible from radio/tape to tape/microphone/CD and auxiliary inputs. Recording level is automatic as the tape utilizes an ALC (Automatic Level Control) circuitry and no adjustment is required.

1. Insert a tape suitable for recording into tape deck A.
2. Set the function switch to the desired source to be recorded. Operate that source according to its instructions.
3. Press the RECORD/PLAY keys of deck A. Recording of the selected source will commence until the STOP/PAUSE key is pressed or when the tape reaches its end.
4. Adjustment of the volume controls during the recording will not affect the recording.

### TAPE TO TAPE DUBBING

Allows duplication of a tape recording.

1. Set function switch to tape.
2. Set dubbing switch at normal or high speed. High speed dubbing will be performed at approximately 1.5 times normal speed.
3. Insert a prerecorded tape in deck B and a blank tape in deck A.
4. Press the PAUSE and RECORD/PLAY keys of deck A.
5. Start the recording process by pressing the PLAY key of deck B.

**NOTE:** In high speed dubbing an audio chattering sound will be heard. Turn down the volume control level if listening to the recording is not desired.

### COPYRIGHT NOTICE WARNING

Most Compact Disc, pre-recorded audio cassettes and radio broadcasts contain material which is subject to copyright. Generally speaking, it is illegal to record such material in any form whatsoever without the permission of the copyright owner. Any person who makes a recording without the consent of the copyright owner risk paying damages to the copyright owner and even criminal prosecution.

### USING THE MICROPHONE

The microphone may be used in conjunction with all other sections of the XB-16

### PUBLIC ADDRESS

1. Select the TAPE function. Press Play and Pause buttons on Tape A.
2. Insert microphone into either of the microphone input sockets.
3. Adjust MIC 1 or MIC 2 volume level and master volume control as required.
4. To add ambience to your voice adjust the ECHO control as required.
5. The voice may be recorded on tape simply press the record/play key of tape A.



**NOTE:** Prevent howling/whistle occurring ensure that the XB-16 is facing away from the person using the microphone.

### SINGING TO MUSIC

The microphone can operate together with the RADIO, TAPE, AV1/2, CD functions.

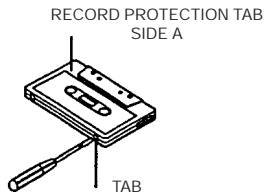
1. Select the desired function and operate that function according to the instructions given.
2. Insert the supplied microphone into either MIC input socket.
3. Move the microphone ON/OFF switch to the ON position and operate the microphone according to the instructions given in the PA section.
4. Use the auto vocal switch to cut the vocals from the music being played.

Special KARAOKE cassette/CD discs may be purchased from many hi-fi retail outlets or record shops. This type of karaoke tape/CD contains popular music/instrumentals recorded on one side of the tape and predominantly vocals on the other side the tape. With these it is possible to sing along (lyric are supplied with the cassettes) to the music or vocal recordings. The priority of voice verses music being played through the XB-16 speaker can be altered to suit your own requiments by adjusting the MIC MIX control to music or vocals.

### PROTECTING YOUR RECORDINGS

All non pre-recorded cassette tapes can be made record proof. On the back edge of the cassette can be found two square tabs, if a recording is to be protected from accidental erasure, remove the corresponding tab applicable to that side of the tape as shown in the diagram. Use a small screwdriver, nail file or similiar implement to break the tab. Once the tab has been removed, recording on that particular side of the tape will be prevented, the tape mechanism will detect that

the tab is missing and will prevent the record key from being pressed.



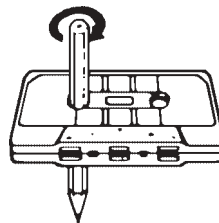
To record a tape that has its tabs removed, place a piece of sticky tape over the holes, this will allow recordings to take place.

### Recommended Cassette Tapes

In order to obtain optimum performance with the built-in cassette tape deck, it is essential to use only high quality cassette tapes. The bias and equalization of this tape deck is adjusted to yield excellent results if used with brand name tapes. Use C-30, C-60 and C-90 cassette tapes only. We do not recommend the C-120 cassettes because they can be subject to mechanical instability and proper, constant tape tension cannot be controlled.

### Checking the Cassette (Slack Tape)

Make sure that the cassette tape has no slack prior to inserting it into the cassette compartment. Use a pencil as shown to take up slack on one of the reels.



### MAINTENANCE TAPE MECHANISM

#### CLEANING THE TAPE MECHANISM

As the tape runs through the tape mechanism, magnetic powder and dust naturally accumulate on the tape deck heads, capstans and pinch roller. When they become too dirty:

- \* Sound quality deteriorates
- \* The output sound level drops
- \* The previous recording is not completely erased

- \* Recording is not performed satisfactory
- \* The Cassette tape may stick to the pinch roller and cause damages to both the tape and player itself.

To ensure the continued high performance of your unit, periodically clean the heads and pinch roller to prevent the accumulation of dust or tape oxide deposits, we recommended to use a special tape cleaning cassette that enables a completed and simplified cleaning operation. Such tape cleaning cassette is available at most Hi-Fi retail outlets or record shops.

## OPERATING THE CD

### PLAYING A CD+G DISC

The CD+G (CD music+Graphics) player will allow standard audio CD and CDG disc to be played through the system. When special Karaoke CDG disc are used, such as the one provided words of the song will appear on the TV screen.

Some of the CD operations, such as PLAY, STOP, REPEAT, PROGRAM, RANDOM and SKIP UP/DOWN can be operated from remote handset. Details refer to REMOTE CONTROL section in page 16.

### CD OR CD+G PLAYBACK

#### CDG TV INTERFERENCE

When playing CDG discs please ensure that all devices (VCR / Game machines etc) are powered/switched off. Failure to do so may cause a distorted or unsteady picture on the TV screen

- 1 Set the Function mode to CD (CD LED will illuminate) or CDG (AV1 + AV2 LED will illuminate).
2. Open CD door (Push OPEN/CLOSE button on the CD front panel).
3. Insert CD disc with silver face down (Label uppermost).

- 4 Close CD door.
- 5 The CD display will show total number of tracks.
6. Press Play/Pause button to start playback.
7. Press Pause button to stop the CD playback temporarily and the LED display will flash. Press Play/Pause button a second time to resume normal playback.
8. Adjust volume/DBBS controls as desired.
9. Press Skip Up/Down to play other tracks on the disc.
10. Press the Repeat button once to repeat one track, REPEAT indicator will flash. Press again to repeat all tracks on the disc, REPEAT indicator will illuminate. Press a third time to cancel the repeat mode.

**NOTE :** When a CD Graphic discs is loaded, the words of the song will appear on TV screen during playback.

### CD SYNCHRO RECORDING

1. Repeat steps 1 - 5 above.
2. Insert a blank tape in DECK A with full spool to the left.
3. Select the track that is going to be recorded by pressing skip up/down button.
4. Press the RECORD and PLAY key on deck A, the recording will commence from the beginning of that track.
5. When the track/song reaches its end, press STOP key on deck A to stop recording.

### PROGRAMME PLAY

Up to 19 tracks can be programmed to play in any desired order. Programming can only be performed with a disc inserted and in the stop mode.

- 1 Press the Programme button. The CD display will show "0" with track number flashing.
- 2 Press the Skip Up/Down buttons (on the CD front panel or remote control) to select the first track. The track number will flash during skip selection.
3. Press Programme button to memorize the track and the CD display will show "0" with track number flashing.

- Press skip up/down button again to select next track.
- Repeat instructions 3 to 4 above to programme more tracks (up to 19).
- When you have completed storing the tracks, press the play button to start play back of programmed tracks.

### RANDOM PLAY

- Repeat steps 1 - 5 same as CD playback.
- Press RANDOM button to start random play.
- The unit will choose randomly a track to start play. The RANDOM indicator will illuminate
- When all tracks on the disc have been played, random play will stop.

### INTRO PLAY

The initial first 10 seconds (Introduction) of each track on CD disk can be played by using the remote handset only.

- Repeat steps 1 - 5 above.
- Press the INTRO and then PLAY buttons on remote handset to start intro play.
- Each track will be played for 10 seconds.
- The INTRO play will stop after playing the last track. It can also be stopped by pressing the STOP button.

#### NOTE :

Do not use the Intro Feature when using CDG Disc's. On some discs the beginning part of the tracks may not be heard or in some cases the CDG display may be only partially seen or may be corrupted

### COMPACT DISC HANDLING

- Always use compact discs bearing the marks as shown :



- Notes on handling discs



- \* When removing the disc from its casing, do not touch the reflective recorded surface.
  - \* Do not stick or write anything on the surface.
  - \* Do not bend the disc.
- Storage
    - \* Always keep the CD disc in its storage case.
    - \* Do not expose the disc to direct sunlight, high temperatures, high humidity or dusty place.
  - Cleaning a disc.
    - \* Should the disc become soiled wipe of dust, dirt and finger prints with a soft cloth. The disc should be cleaned from the centre to the edge

CORRECT

INCORRECT



FROM THE CENTRE TO THE EDGE

- \* Never use benzene, thinners, record cleaner fluid or antistatic spray.

8 CM (3 3/16)" CD SINGLES" can be used (without using an adapter) in this unit.

### Cleaning the lens

If the lens in the CD pick-up is dirty, dusty, etc. It could degrade the sound or prevent disc play.

Use a proprietary cleaning disc available from most HI-FI retailers.

## TV OPERATION

### CAUTION

Never tamper with any components inside your set, or any other adjustment controls not mentioned in this manual. All television receivers are high voltage instruments. Your PICTURE TUBE is highly evacuation. If broken, glass fragments will be violently expelled. Scratching, chipping or undue pressure is dangerous and should be avoided. When you clean up or dust the PICTURE TUBE FACE or CABINET, the power cord should be pulled out from the wall socket, then wipe the receiver with dried soft cloth. During thunder and lighting, unplug the power cord and aerial cable to prevent your TV set from damage. All "internal work" on your unit should be performed only by TV service personnel.

### INSTALL TV AERIAL

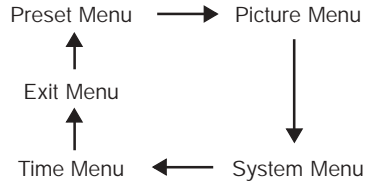
To have a better receipt of TV broadcasting programme, insert the supplied indoor UHF loop aerial into the TV aerial holder at the rear of the unit and connect the aerial cable to the nearby 75 ohm TV aerial input socket. Rotate the loop aerial and adjust the loop angle to obtain a best picture in the TV screen. Alternatively, you may connect an outdoor TV aerial to the TV aerial input socket.

## OPERATION INSTRUCTIONS

Set the Function mode to TV (TV LED indicator will illuminate). The picture will appear after a few seconds. The programme channel number is displayed on the top right hand corner of the screen if OSD button  on remote control is pressed.

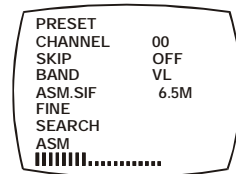
### MENU BUTTON

1. Press this button to select menu. PRESET, PICTURE, SYSTEM and TIME menu can be selected cyclically.



2. After entering a menu, you can select the item to be adjust with the PROG. +/- buttons, adjusting the selected item by using VOL. +/- buttons.
  - \* The item selected will change to blue.

### *Preset menu (Channel Storing)*



1. CHANNEL  
The channel being watched can be stored. To adjust the channel number use the VOL +/- buttons.
2. SKIP  
Can be set "ON" by VOL +/- buttons. If you want to cancel (skip) the channel being watched.
3. BAND  
You can select V-L, V-H or UHF  
- Note: UK is UHF.
4. ASM SIF  
You can select 6.0M, 4.5M, 6.5M or 5.5M  
- UK is 6.0M.
5. FINE  
To tune in a weak TV station manually.
6. SEARCH  
Select a channel (see above CHANNEL) and press VOL +/- Buttons to start TV station searching. The VOL- button searches for a lower frequency TV station signal and VOL+ button for higher frequency. When a TV station signal of sufficient strength is received, the searching will stop and that TV station programme will be stored in the selected channel.

7. **ASM - AUTO SEARCH METHOD**  
Press VOL +/- Buttons then the TV set will automatically search from V-L band to U band. Details please refer to Tuning Setup Guide.

## Tuning Setup Guide

The following procedure should be used for initial set up of the TV station (Programme) Memory.

Upto 99 stations can be preset into memory for easy recall as follows

**Note :** All operations to be carried out using the buttons on the remote control.

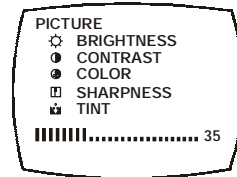
1. Connect the TV to the household 230VAC supply via the 3 pin plug
2. Connect an external or set top aerial to the 75-Ohm Aerial socket on the rear of the TV.
3. Press the Power and the Standby buttons to switch the set ON
4. Press the MODE or AV button until the TV function indicator is illuminated.
5. Press MENU button on the remote control and the Preset Menu will display on the TV screen.
6. Press the PROG +/- buttons to navigate the menu to select ASM
7. Press VOL + to start the AutoTune process
8. The Display will show bars advancing across the screen beneath the ASM caption left to right as tuning progresses.
9. Each time a signal of sufficient strength is located the scanning will pause and the station will be stored in order of reception.
10. Once completed the first station tuned to will be shown on the screen.
11. To re-order the channel numbers please refer to the SEARCH tuning instruction above.

If problems are experienced with the above procedure or further assistance is required please call our Product information Helpline

for assistance on

**02392 391100**

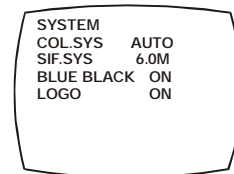
## Picture menu



You can select BRIGHTNESS, CONTRAST, COLOUR, SHARPNESS, and TINT features by using the PROG. +/- Buttons, and then adjust using VOL. +/- Buttons

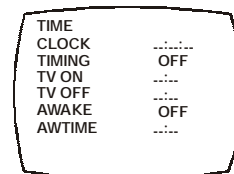
- \* TINT is displayed only for NTSC and is not available for PAL or SECAM.

## System menu



1. **COLOUR SYS**  
You can change the colour system (AUTO - NTSC - PAL)
2. **SIF. SYS**  
You can change the sound system with this option (UK is 6.0M).

## Time menu



1. **CLOCK**  
You can adjust the current time. Press the VOL + button set the hour, and the VOL - button set the minute.
2. **TIMING**  
If this is set to TIMING ON, TV ON and TV OFF time can be set.
3. **TV ON**  
Set the time for the TV set to turn on.
4. **TV OFF**  
Set the time for the TV set to turn off.
5. **AWAKE and AWTIME FUNCTION** Please note that the AWTIME feature does not operate on this model

### **TIMER FUNCTION**

Timer Function when set will automatically turn on the selected source (TV/Tape/Radio) for the programmed time and then automatically turn off. It may be used to wake you in the morning.

**IMPORTANT :** Make sure that you first set the current current clock time as described in **CLOCK**

1. Press AV button to select TV mode.
2. Press Menu button 4 times. Using the PROG - & + buttons highlight "TIMING" and press the VOL + or - button on the remote to select ON.
3. Press the PROG +/- button and highlight "TVON" and using the VOL + or - buttons on the remote adjust the hours and minutes until the ON time is obtained (the time it wakes you).
4. Press the PROG +/- button and highlight "TVOFF" and using the VOL + or - buttons on the remote to adjust the hour / minute to turn off.
5. Press the MENU button to store the settings.
6. Before switching the set to its standby / off mode select which function (TV/RADIO/TAPE) will wake you in the morning. Adjust the volume level which will be used to wake you in the morning.

7. Press the Power / standby button to turn off the unit.

At the programmed time the function selected will operate and will automatically switch off at the programmed time.

### **NOTE :**

1. Once set, the Timer function will operate every 24 hours.
2. To switch off the Timer simply press the MENU button 4 times highlight "TIMING ON" and press the VOL +/- button on the remote until OFF shows on the display. Press the Menu button to store this change.
3. If the OFF time is not set then the system will remain powered up!


### **SELECTING A PROGRAMME**

Use 0-9 digit buttons to select directly the programme number required. If you want to select a double digit programme number, first press "-/-" button, then input the two digits. Programme number can also be changed by "PROGRAM DOWN" and "PROGRAM UP" buttons. Press "PROGRAM UP" button, programme number will increase. Press "PROGRAM DOWN" button, programme number will decrease.

### **CHILD LOCKED**

The TV set can be locked for control or to prevent children from watching programmes.

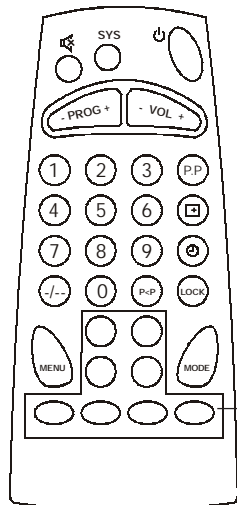
### **SET CHILD LOCK:**

Press the "LOCK" button on remote unit. The key locked () is shown on the screen. Then the symbol will disappear after five seconds and the set enters locked mode. You can't use any key on the TV set.

### **RELEASE CHILD LOCK:**

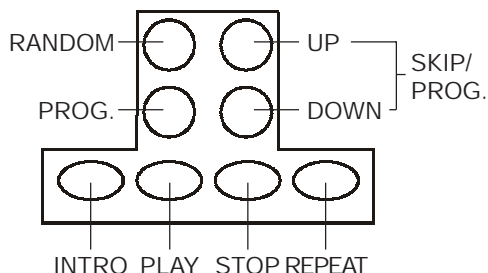
You can cancel this mode by pressing the "LOCK" button again on remote control.

## REMOTE HANDSET OPERATION



CD/CDG buttons

### CD/CDG BUTTON



## REMOTE HANDSET OPERATION

### POWER (STAND BY) BUTTON (⏻)

The remote handset can ONLY be operated when the POWER switch at the rear of the main unit is set at ON. Press this button to turn the unit on and press again to set the unit at standby. When the main unit in standby mode (with standby LED illuminated), press any Number Button or Programme UP/DOWN button, the sound will be heard and picture will appear on the screen within a few seconds.

### MUTE BUTTON (🔇)

Press once to mute the sound, press again to return to previously set sound level.

### SOUND SYSTEM BUTTON (SYS)

Press this button to select the correct sound system.



### PROGRAMME SELECTION BUTTONS (0-9, -/-)

Push the number for your desired programme and the programme indicator will show on the screen. Press -/- key to select one digit or two digit entry, to select programme 0-9, use one digit entry, to select 10-99 use two digits entry. Press number key 0-99 for programme selection.

### PROGRAMME UP/DOWN BUTTON (PROG +/-)

Press the Programme Up Button to select the next programme.  
Press the Programme Down Button to select the previous programme.

### VOLUME UP/DOWN BUTTONS (VOL +/-)

Press Volume Up/Down Buttons to adjust the volume.


### PERSONAL PRESETS BUTTON (P.P.)

You can select DYNAMIC, MILD, COLORFUL, STANDARD and CUSTOM by pressing this button.

### RECALL BUTTON ( )

Press this button sequentially to recall the programme number, colour system and sound system on the screen.

### SLEEP BUTTON ( )

This key is used to set the sleep timer in 15 minute steps up to two hours. When the preset time runs to 0. The TV set will go into stand by mode. To switch off this function, press this key step by step until "  " is displayed on the screen.

### LOCK BUTTON

This button is use to prevent children watching the TV, please refer to page 15 for details.

### QUICK VIEW BUTTON (P<P)

Press this button to return to the previously viewed programme.

### MODE or AV BUTTON

Please refer to manual page 7

### MENU BUTTON

Use "MENU" button for tuning procedure, please refer to page 13, 14 & 15 for details.

## BATTERY INSTALLATION (REMOTE CONTROL UNIT)

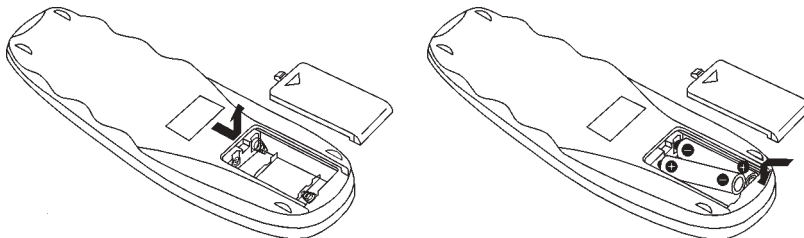
1. Remove the battery cover.
2. Insert 2 UM3-AA 1,5V batteries (not supplied) making sure the polarity (+ or -) of the batteries matches the polarity marks inside the unit.

3. Replace the battery cover.

Replace with new batteries when the TV set begins to show the following symptoms:  
Operation is unsteady or erratic. Sometimes the TV set does not function with Remote Control Unit.

Weak batteries can leak and severely damage the remote control unit.

Always remove batteries as soon as they become weak, or if the unit is not to be used for a long time.



### NOTES:

- 1) Alkaline Batterie are recommended
- 2) Remove batteries when they are exhausted or if the remote control is not to be used for a long time.



## THE CAUSE OF INTERFERENCE IN TV RECEIVING

Incorporated in your TV receiver are the most up-to-date devices to eliminate interference. Local radiation however, can create disturbances which visibly affect your picture. Proper installation, a good aerial are your best safe-guards against these disturbances.

### RF INTERFERENCE

Moving ripples across the screen are caused by nearby transmitting or receiving-short-wave radio equipment.

### DIATHERMY

Herringbone pattern and partial picture loss can result from the operation of diathermy equipment from a nearby doctor's surgery or hospital.

### SNOW

Weak TV signals from long distant stations result in a poor picture and give the effect of falling snow. An antenna adjustment or antenna amplifier may be needed.

### GHOST

Multiple image caused by TV signals reflected back from surrounding buildings, hills, aircraft, etc. can be minimized by correcting the aerial positioning.

### CAR IGNITION

Nearby cars and electrical motors can cause small streaks across the picture or make the picture roll.

## TROUBLESHOOTING GUIDE


If you do have problems, try the suggested remedies listed in the chart below before contacting your dealer or ringing the helpline.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<b>GENERAL</b> No sound/cannot switch Power On	AC cord is not plugged in.	Plug in AC cord.
	Power is not On.	Push power switch ON.
	Fuse blown in Mains Plug.	Replace a 3 Amp Fuse.
No sound is heard when the power is turned on.	VOLUME control is at its minimum position.	Set the VOLUME control to a proper sound level.
	An incorrect function selector has been pressed.	Check to be sure that the correct function selector is pressed.
A low-pitched noise ("hum or buzz") is heard.	The power cord, a fluorescent light or other electrical appliance etc., is near the connection wires.	Try separating this unit from the electric appliance as far as possible.
The Sound is distorted.	The Amplifier volume is set too high and the sound is being clipped.	Turn down the volume.
<b>RADIO</b> Noise in radio reception.	Location and direction of unit is not appropriate. (MW ONLY)	Rotate or reposition unit as MW aerial is inbuilt into the main unit.
	Station has not been tuned properly.	Tune to correct frequency.
	Wire aerial is not unravelled. (FM ONLY)	Unravel and extend wire aerial.
MW Sound is distorted and/or the volume level becomes low.	Broadcast signals are being disturbed.	Try changing the location or Position of the unit. Retune to another frequency.

## TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<b>CASSETTE DECK</b> Unsteady tape sound.	Dirty capstan, heads and/or pinch roller.	Clean capstan, heads and/or pinch roller.
	Irregular cassette tape winding.	Replace tape.
Cannot record. (RECORD button will not engage.)	Cassette's erasure prevention tabs broken out.	Replace tape or cover tab openings with adhesive tape.
Recorded tape sound is distorted.	Dirty head.	Clean head.
High frequency of tape sound is weak.	Dirty head.	Clean head.
Previously recorded sound can not be erased totally.	Erase head is dirty.	Clean the heads.
	Original tape is chrome.	Chrome tapes are not recommended on this unit.
<b>CD PLAYER</b> Disc is inserted but number of tracks not displayed.	Disc is inserted upside down.	Insert disc correctly (with the label side up)
	Disc is dirty.	Wipe clean with soft cloth.
	Disc is scratched.	Use a new disc.
	Disc is seriously warped.	Use a new disc.
	A non-standard disc is inserted.	Use only brand name discs.
	Moisture has formed inside the CD deck.	Wait about 20 to 30 minutes.
Certain sections of a disc are not played normally.	Disc is dirty.	Wipe clean with soft cloth.
	Disc is scratched.	Play disc and skip over scratched sections (if so desired), otherwise replace disc.
The sound cuts out or the same spot is repeated.	A Defective COMPACT disc.	Replace the COMPACT disc.
<b>REMOTE CONTROL</b> Remote control unit does not function.	Batteries are incorrectly placed.	Check battery polarities.
	Batteries are weak or dead.	Replace them with new batteries.
	There is a obstruction between the remote control unit and the main unit.	Remove the obstruction.
	The remote control unit is not correctly facing the main unit.	Aim the remote control unit toward the main unit.
	Too far from the main unit.	Move closer to the remote sensor on the unit.

## TROUBLESHOOTING GUIDE (TV SECTION)

BEFORE CALLING FOR SERVICE, HAVE YOU CHECKED (  ) THE FOLLOWING CHART ON SYMPTOMS AND SOLUTIONS?

Symptoms	Solution												
		Try different channel, if OK, probably station trouble	Check aerial connections on back of set	Check aerial for broken wires	Re-orient aerial (if indoor type)	Probably local interference	Adjust fine tuning control	Adjust brightness control	Adjust contrast control	Check if station is broadcasting colour	Check if colour control	Check if system switch is correct	Check Batteries in Remote control
No picture, no sound		●	●	●		●				●	●		
Poor sound, picture OK		●			●	●					●		
Poor picture, sound OK		●	●	●	●	●	●						
Weak picture		●	●	●	●	●				●			
Blurred picture		●		●	●	●				●			
Double image		●	●	●	●	●							
Lines in picture		●		●	●	●							
Distorted picture		●		●	●	●					●		
Weak reception on some channels		●	●	●	●	●				●			
Horizontal bars				●	●	●							
Picture rolls vertically		●		●	●	●				●			
Poor colour		●	●	●	●	●	●	●		●	●		
No colour		●	●	●	●	●			●	●	●		
Misoperation of Remote control												●	
No Remote control												●	
On Screen Display Control outside the screen										●			

## SPECIFICATIONS

### CD Section

Frequency Response : 20Hz ~ 20KHz ( $\pm$  3dB)  
S/N Ratio : 65dB  
Wow and Flutter : immeasurable  
D/A converter : 1 bit DAC with 8 times oversampling digital filter  
Number of Program : 19 Steps Random Access Programme

### CDG Section System

System : PAL I  
RF output level : 1 volt

### TUNER Section

Frequency Range : FM 87.5 - 108 MHz  
MW 530 - 1600 KHz  
Antenna : FM Wire antenna (external)  
MW Ferrite core antenna (internal)

### TAPE Section

Tape Speed : 4.75 cm/sec.  
Track System : 4 Track, 2 Channel Stereo  
Recording System : DC Bias  
Erasing System : Magnetic Erasing

### TV Section

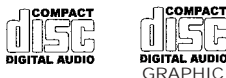
Receiving : System I  
Colour System : PAL/I  
Ext. Antenna : 75 Ohm Coaxial Cable  
Aux AV/Input : 2 x (3 x RCA front panel, 3 x RCA + Scart socket back cover)  
Aux AV Output : 1 x (3 x RCA back cover)

Output Power : 5 W RMS X 2 channel 8 Ohm 10% THD  
40 W PMPO

Power Source : AC 230 V 50 Hz

Dimensions : 400 (W) x 380 (D) x 970 (H) mm

**Notes:** (1) Only compact disc's marked with the disc logo



are guaranteed to work on this player. Home recorded discs (CDR) recorded on home PC's may not play or operate correctly. This player cannot play CD-RW, DVD's including PHOTO CDs, data sections in the CD-Extras, DVD-ROMs etc.

(2) Should the player lock up during playing of a disc or certain CD function key does not operate during playback, switch off the power and wait for a moment then switch the power on again. If the problem continues replace the disc.

## IMPORTANT NOTES

Your 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 low 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 recognising just how loud you have set the volume level.

#### DECIBEL

Level (dB)	Example
------------	---------

30dB	Quiet library, soft whisper.
40	Living room, fridge, freezer, bedroom away from traffic.
50	Normal conversation, quiet office, light traffic.
60	Electric sewing machine.
70	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.
90	Motorcycle, heavy goods vehicle, petrol lawn mower.
100	Pneumatic drill, chain saw, garbage truck, discotheque / night-club.
120	Rock band concert, thunderclap, fast train passing by.

### **PERMANENT LOSS OF HEARING**

140dB	<b>THRESHOLD OF PAIN</b> Gunshot 2 feet away, jet plane taking off.
180	Rocket Launching pad.