Cyrus AV8
User Instructions

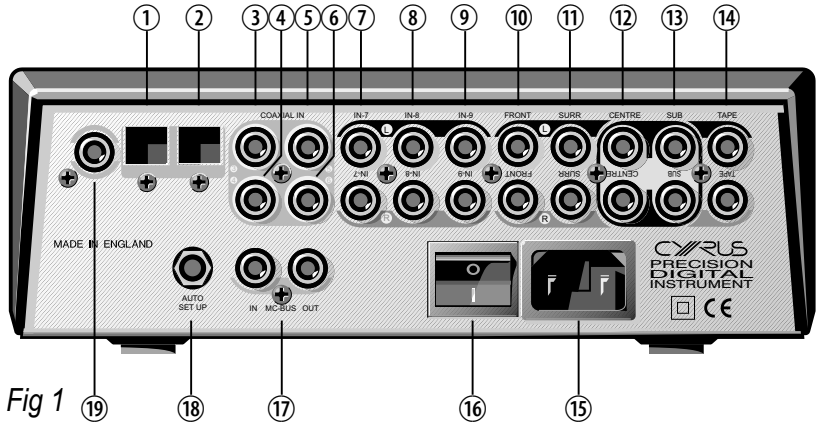


Fig 1

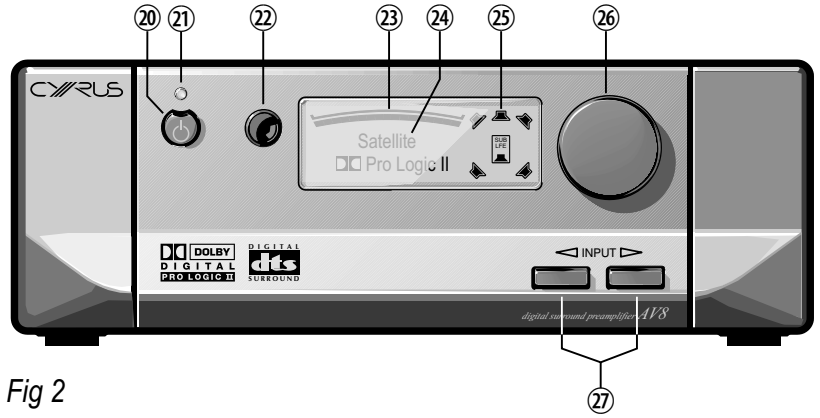


Fig 2

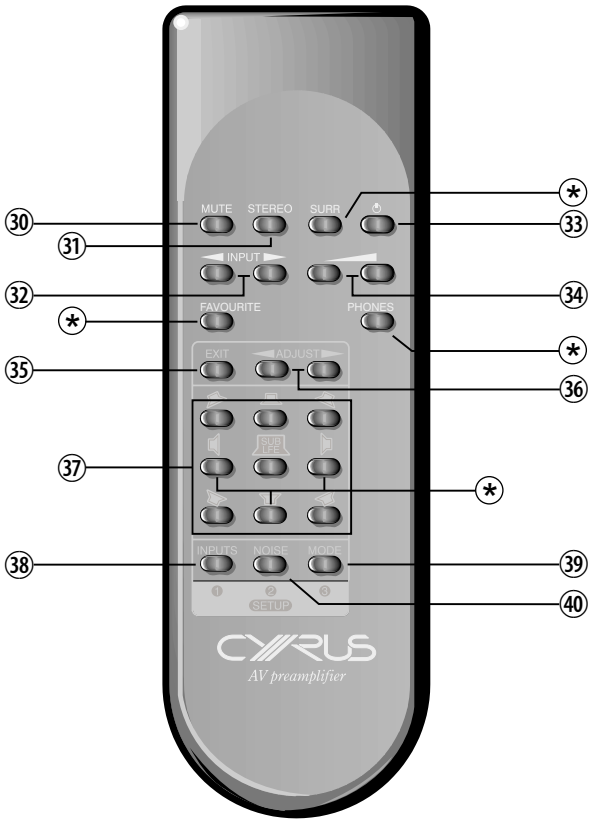


Fig 3

Fig 4.1 — CENTRE SIZE <SMALL>

Fig 4.2 — Input 9 < DVD >

Fig 4.3 — MANUAL CAL Start in 5 secs

Fig 4.4 — Set Ref. Level -45

Fig 4.5 — CENTRE +2dB

Fig 4.6 — LEFT DIST < 3.0m / 10ft >

Fig 4.7 — AUTO CAL Start in 5 secs

Fig 4.8 — AUTO CAL Complete

Fig 4.9 — SUB LEVEL +4dB

Fig 4.10 — SUB MODE < ON >

Fig 4.11 — SUB X-OVER < 70Hz >

Fig 4.12 — LFE Level +OdB

Fig 4.13 — Dyn. Compression < LOW >

Fig 4.14 — Satellite Pro Logic II

Fig 4.15 — -45dB

Fig 4.16 — DVD - AUTO MUTE -

IMPORTANT! Read before operating this equipment!

CAUTION: The exclamation mark is to draw your attention to important instructions and safety procedures in this manual.

ATTENTION: The lightning flash warns you of the risk of electrical shock presented by components inside this product. Unauthorised personnel must not open this unit.

WARNING: To reduce the risk of electrical shock do not remove any unit covers or panels. There are no user serviceable parts in this product.

WARNING: To reduce the risk of electric shock, do not expose this equipment to rain or moisture.

HEED WARNINGS: All warnings on the product and in the operating instructions should be adhered to.

READ ALL THE INSTRUCTIONS: All the safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS: The safety and operating instructions should be retained for future reference.

FOLLOW INSTRUCTIONS: All operating and use instructions should be followed.

CLEANING: Unplug this product from the mains before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

WATER AND MOISTURE: Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement; or near a swimming pool and the like. The product must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product.

HEAT: The product should be situated away from heat sources such as radiators, stoves, or any other products (including amplifiers) that produce heat.

VENTILATION: Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

OBJECT OR LIQUID ENTRY: Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

ACCESSORIES: Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

ATTACHMENTS: Do not use attachments not recommended by the product manufacturer as they may cause hazards.

MOVING THE PRODUCT: A product and cart combination should be moved with care. Sudden stops, excessive force, and uneven surfaces may cause the product and cart to overturn.

POWER SOURCES: This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

OVERLOADING: Never overload wall outlets, extension cords, or integral convenience receptacles. This can result in an increased risk of fire or electric shock.

POWER CORD PROTECTION: Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

NAKED FLAMES: No naked flame sources, such as candles, must be placed on this product.

LIGHTNING: For added protection for this product during a lightning storm, or when it is left unattended or unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

CAUTION! POLARISED CONNECTOR (CANADA and USA):

To prevent electrical shock, match wide blade of plug to wide slot, fully insert.
Do not alter or remove this plug if it does not fit your mains power socket. Have a suitable socket installed by a competent electrician.

POWER SUPPLY:

The moulded IEC connector of the AC cord supplied plugs into the power inlet ⑮ on the rear of the unit.

The mains supply requirement for your *Cyrus AV8* is marked on a label on the rear panel. Before connecting, check that this voltage is the same as your mains supply.

230V Products:	Voltage Range	220V-240V
115V Products:	Voltage Range	110V-120V

If you move to an area with a different mains voltage, contact your local *Cyrus* distributor to have your product converted.

There are no user replaceable fuses in this unit.

NOTE FOR UK CUSTOMERS:

The *Cyrus AV8* is supplied with a power cable terminated by a fused 13A mains plug. This plug should not be removed but if it is removed, dispose of it safely and do not re-use it. To connect a new 13A plug, proceed as follows: Connect the brown wire to the terminal marked L or coloured red. Connect the blue wire to the terminal marked N or coloured black. The internal plug fuse should be 5A.

SERVICING:

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

CONDITIONS REQUIRING SERVICE: Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product has been dropped or damaged in any way.
- If the product does not operate normally by following the operating instructions. (Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage requiring extensive work by a qualified technician to restore the product to its normal operation).
- When the product exhibits a distinct change in performance.

REPLACEMENT PARTS: When replacement parts are required, be sure the service technician has used replacements specified by the manufacturer or have the same characteristics as the original part. Unauthorised substitutions may result in fire, electric shock, or other hazards.

SAFETY CHECK: Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Manufactured under license from Dolby Laboratories. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. Copyright 1992 - 1997 Dolby Laboratories, Inc. All rights reserved.

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

LaserDisc is a trademark of Pioneer Electric Corp.

Welcome to the world of *Cyrus*!

Congratulations on your choice of *Cyrus* Audio-Visual products. Our state-of-the-art design technology and outstanding quality of manufacture has won countless awards around the world. We are confident that you will derive great pleasure from owning a product from one of the most recognised and respected manufacturers of hi-fi equipment.

Please read these instructions carefully before commencing installation. They provide full guidance to help you install your *Cyrus AV8* safely and correctly.

Preparations for Installation

Before installing the *AV8* check that the following items are included in the accessory box.

- Warranty Card (with instruction manual)
- AC Mains Cable
- Remote Control Handset
- 2 AAA Batteries
- 2 MC-Bus phono cables
- Auto set-up Mic with battery

After removing these items, please retain the packaging.

Install the *AV8* in a well ventilated location away from sources of high temperature, dust or humidity. Never stand the *AV8* under another unit or on any surface likely to hamper its cooling or ventilation.

To avoid damage to your system, always ensure that mains power is disconnected from all system components until installation is complete.

Installation

Key to the rear panel drawing *(Fig.1)*

1. Input 1 Optical
2. Input 2 Optical
3. Input 3 Digital
4. Input 4 Digital
5. Input 5 Digital
6. Input 6 Digital
7. Input 7 Analogue
8. Input 8 Analogue
9. Input 9 Tape
10. Front channel outputs
11. Surround channel outputs
12. Centre channel outputs
13. Subwoofer outputs
14. VCR/tape record outputs
15. AC mains inlet
16. Power switch
17. MC-Bus connections
18. Microphone socket
19. Digital output

NOTE: When connecting inputs to the *AV8, e*nsure that only digital audio sources are connected to 'Digital' inputs.

Connecting Digital Audio Sources to the *AV8*

The digital audio inputs of the *AV8* are compatible with a number of different digital audio sources. These include-

- Digital Audio output from a CD player
- DVD players (see specifications for DVD technical compatibility details)
- Digital tape/disc recorders
- Digital Radio
- Digital Satellite receivers

Using a suitable Toslink optical or Digital phono interconnect, connect each digital audio source to one of the inputs 1~6. Make a note of the input number used for each source as the inputs of the *AV8* can be re-named at the set-up stage.

Connecting Analogue Audio Sources to the *AV8*

Analogue Inputs 7-9 are available for the connection of analogue audio sources to the *AV8*. Inputs 7-9 are intended for use with analogue program sources which include-

- Analogue output from CD/DVD/LaserDisc Players
- Televisions
- Analogue Satellite Receivers
- FM Radio tuners
- Analogue VCRs/Tape recorders

SCART Connectors

Some TVs, Video Recorders and DVD players have 21 pin SCART style connectors for analogue audio and video input/output. These may be connected to the *AV8* with a suitable SCART/phono interconnect or adaptor.

Connecting a LaserDisc player to the *AV8*

The L/R analogue outputs of a LaserDisc player may be connected to an analogue input of the *AV8*.

If the LaserDisc player is equipped with a Digital Output this may also be connected to one of the Digital Inputs.

The *AV8* is not equipped to decode the R.F. AC-3 output of a LaserDisc player. For R.F. AC-3 signals an external demodulator is necessary to convert the AC-3 signal to be compatible with one of the Digital Audio inputs. Your dealer should be able to advise on the choice of a suitable demodulator.

VCR/Tape recording

If VCRs/Tape recorders are connected to one of the analogue inputs, recordings may also be made from the *AV8* VCR/Tape Out sockets. Connect a suitable phono interconnect from the Tape Output sockets of the *AV8* to the Record inputs of the VCR/Tape Recorder.

NOTE: The Tape output sockets are active for Stereo mode only (not for Stereo + Sub or any Surround mode).

Connecting Power amplifiers

External power amplifiers are necessary to drive the system speakers. Both stereo and high power monoblock *Cyrus* power amplifiers are available to partner the *AV8*.

With suitable phono interconnects, connect from the Front ⑩, Surround ⑪, and Centre channel ⑫ outputs to the appropriate power amplifiers. The system loudspeakers may then be connected to each power amplifier.

NOTE:- Take care to connect each of the *AV8* output channels to the correct power amplifier and loudspeaker.

In normal use, only one of the Centre channel outputs and a single amplifier channel are connected to the Centre channel speaker. Optionally, the stereo Centre channel output option of the *AV8* may be used to drive a stereo amplifier to twin centre channel speakers.

Connecting the Front Channels through a *Cyrus* hi-fi system

The *AV8* can be connected to an existing stereo *Cyrus* hi-fi system, sharing the power amplifiers from the stereo system for the Front Channels. In this case, connect a stereo phono interconnect from the Front Channel outputs of the *AV8* to the AV input sockets of the *Cyrus* stereo integrated amplifier *or* pre-amplifier. For this system to function correctly both the *AV8* and the *Cyrus* stereo amplifier must be included in an MC-Bus connection loop (see section 'MC-Bus connection').

NOTE: The MC-Bus systems of the *Cyrus III* and *Cyrus Pre* amplifiers are not compatible with the *AV8* and should not be connected through MC-Bus.

Connecting a Subwoofer

A subwoofer may be connected with a suitable phono interconnect to either of the Subwoofer outputs ⑬. Twin outputs are provided for systems which include subwoofers with stereo input connections or for twin subwoofers.

Video Connections

For audio-visual sources (TV, Video recorder, DVD etc.) a separate video connection must be made from each source to a video line input of the TV. Some TVs will offer a choice of video connections. In most systems the S-Video connection will give the best results (where available).

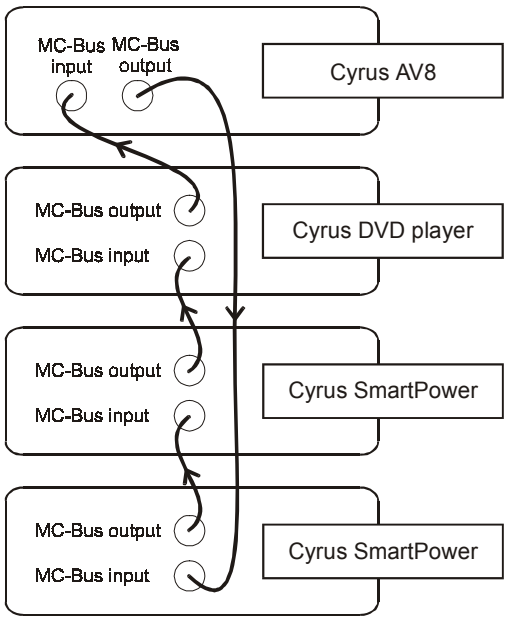
NOTE:- No video connections are made to the *AV8*.

MC-BUS Connections

Connecting the MC-Bus sockets ⑰ of the *AV8* in an MC Bus system provides unified system power control. An MC Bus loop is established by connecting single phono cables from the MC Bus output of one unit to the MC Bus input of another. Complete the loop by returning the MC Bus output of the final component to the MC Bus input of the first. The drawing below shows an example of MC-Bus wiring for a *Cyrus AV8* with a CD player and two power amplifiers.

With MC-BUS established the power function of all connected *Cyrus* components may be controlled from the *AV8* front panel or remote control. When power is switched on, components such as power amplifiers will switch on automatically.

When a *Cyrus* stereo integrated amplifier *or* pre-amplifier is connected into the MC-BUS loop, setting of the volume calibration level will take place automatically when the VI/AV input is selected at the *Cyrus* stereo amplifier.



SETTING UP THE *AV8*

The *AV8* is a highly versatile product which can be easily configured to match accurately the requirements of different Home-Theatre systems.

The recommended initial setting up procedure for the *AV8* is this-

- Set speaker sizes
- Set input names
- Set the channel balance and positions for the speakers
- Set special modes of operation

Setting up takes place from the remote control using the SET-UP key area ㊲.

You can return to normal operation from the set-up sequence at any time by pressing the EXIT key ㉟ on the remote control.

Setting speaker sizes

The first step in setting-up the *AV8* is to set the sizes of each system speaker using the following key sequence-

1. Press one of the SPEAKER HOT-KEYs ㊲ *twice* to select speaker size setting. The display will show the chosen speaker name with the current set size (Fig.4.1).
2. Choose the correct speaker size with the ADJUST keys ㊱. The options are SMALL (for bookshelf or satellite speakers), LARGE (for larger stand mounting or floor-standing speakers), or NONE (if a speaker is not connected in this position).
3. Press the next SPEAKER HOT-KEY ㊲ to save this setting and move on to set the size of the next speaker, and finally the subwoofer.

The speaker symbols on the display change shape to show the selected sizes for the system speakers (Fig 4.1 shows large front speakers with small centre and surround channel speakers).

NOTE:- If SMALL size is selected for all of the system loudspeakers, a subwoofer must be connected and selected to enable the bass frequencies to be correctly reproduced.

CAUTION:- For the correct reproduction of DTS encoded recordings large speakers are recommended for all sound channels. Speaker size settings are therefore disabled when the *AV8* is decoding DTS encoded recordings. If DTS encoded recordings are played through small system speakers caution should be exercised to avoid possible damage through bass overload.

Setting input names

When the *AV8* leaves the factory, the input names are set to correspond to the rear panel connections, for example Input 1 will display as- Input 1, IN-1 Digital.

The name of *any* input may be changed to a choice from the following list-

- LaserDisc, DVD, DVD 1, DVD 2, DVD-A, CD, CD 1, CD 2, SACD, CD-R, Jukebox
- Phono, Deck, Vinyl
- Tuner, Radio, DAB
- TV, Satellite, Satellite 1, Satellite 2, Cable
- Video, VCR, VCR 1, VCR 2, Tape, Cassette, MD, MiniDisc, DAT
- PC, Games, Special, Keyboard, Aux

To change the names of the inputs, first make a list of each input number with your preferred name from the choices above. Where an input is not used, make a note- unused inputs can be switched off.

To rename the current selected input follow this sequence-

1. Press the SET-UP 1 'INPUT' key ㊳ on the remote control. The display will now show the selected input number on the top row and the current name on the bottom row with brackets (Fig.4.2).

2. Use the ADJUST keys ㊱ to change the input names on the bottom row of the display until your preferred name appears from the list of available names. The full list of names appears above.
3. Now you can choose to exit and save the changes (press the EXIT key ㉟) or to re-name another input (repeat step 1 to select another input then step 2 to re-name it).

Setting speaker channel balance and positions

To ensure the best performance from your multi-channel audio system it is essential to balance all sound channels to reproduce equal sound levels from the system speakers. The *AV8* includes two noise set-up options-

- Manual noise adjustment to balance individual speaker volume levels.
- Fully automatic adjustment to balance speaker volume levels and to measure the distance to the speakers.

The automatic system is recommended, particularly for initial adjustment to get the system running.

NOTE:- To allow high volume levels to be reached, high value positive balance settings are reduced at very high settings of the volume control. When this condition occurs, the display will flash the legend 'Balance limiting' briefly. Normal balance settings are restored when the volume setting is reduced.

Manual noise adjustment

Press the SET-UP 2 NOISE key ㊵ once to start the manual noise sequence. MANUAL CAL will now show on the display and a 5 second count down begins (Fig 4.3). After the count down a noise signal will be heard from the front left speaker. Set the noise to a comfortable level with the ADJUST keys ㊱. The noise will now cycle around all of the system speakers.

As the noise sequence moves you can compare the sound level from each speaker and make level balance adjustments with the set up ADJUST keys ㊱. The display shows the active speaker and a bargraph for balance level (Fig 4.5). If no adjustment is made within 2 seconds the noise will sequence to the next speaker in the system. When adjustment is complete, press the EXIT key ㉟.

When noise adjustment is active the top row of the display will show the selected speaker while the bottom row indicates the current balance setting from –10dB to +10dB (Fig 4.5).

Manual distance setting

Before commencing manual distance setting, measure the distance from each of the five main channel speakers to the listening position and make a note of the measurements.

1. Press one of the SPEAKER HOT-KEYs ㊲ *three times* to select speaker distance setting. The display will show the chosen speaker name with the current set distance (Fig.4.6).
2. Choose a distance measurement for the chosen speaker from the available options with the ADJUST keys ㊱. Distances can be set in the range 0-9.1m (30ft).
3. Press the next SPEAKER HOT-KEY to save this setting and move on to set the distance to the next speaker.

Automatic level adjustment and distance setting

NOTE- For automatic setting the microphone must be connected to the rear panel socket ⑱ before starting the process. The battery must be fitted inside the microphone plug before use. Observe the polarity markings when fitting the battery. Remove the battery from the microphone if it is only used occasionally.

1. Before commencing the sequence, set up the microphone in the listening position at approximately head height, facing vertically upwards.
2. Press the SET-UP 2 NOISE key ㊵ *twice* to start the automatic noise sequence. AUTO CAL will show on the display with a 5 second count down (Fig 4.7). Before commencing the AUTO CAL sequence the *AV8* will perform a microphone test with a short noise burst. If there is a problem with the microphone or it's connection, the display will show a 'Mic Error' indication. In this case the microphone connection and battery should be checked before re-starting the AUTO CAL process.
3. Following a successful microphone test the noise signal will be heard at an increasing level from the front left speaker and the set-up sequence will start.

The set-up sequence runs in two parts, the first will set the relative volume levels between the loudspeakers, the second will measure the distance from the listener to the speakers and set corresponding delay times. At the end of the sequence the display will show 'Complete' (Fig. 4.8) for 5 seconds before returning to normal operation. The stored settings can be checked, if required by selecting Manual Noise or Distance adjustment.

Factory balance settings

The factory setting for all channels is centre scale when all channels are at equal volume.

NOTE:- The noise sequence is also helpful to check that all channels have been connected correctly. When correctly connected the noise should start with the left front channel and circulate clockwise.

Setting up the sub-woofer

For correct reproduction of the deep bass content of multi-channel home-theatre programs a sub-woofer is recommended for *AV8* systems.

Deep bass information is fed to the sub-woofer in two ways-

1. From the separate LFE low frequency effects channel of digitally encoded programs.
2. When one or more of the system speakers are set to 'small size' the bass from these speakers will be re-directed to the sub-woofer.

Sub-woofer level

The overall level of sound from the sub-woofer can be adjusted at any time by selecting SUB/LFE from the SPEAKER HOT-KEYs ㊲ and using the ADJUST keys ㊱ to increase or reduce the level from the sub-woofer (Fig. 4.9). Most sub-woofers will also have a control panel which includes level adjustment. The recommended procedure for setting the two controls is as follows-

1. Set the *AV8* sub-woofer level adjustment to 0dB (centre scale).
2. Play a program which includes sub-bass content and adjust the sub-woofer level control to your preferred level.

A full ±10dB range is now available from this nominal setting via the *AV8* remote control when listening.

Sub-woofer mode

The sub-woofer can be switched on or off at any time (for example, when listening late at night) by pressing the SUB/LFE key from the SPEAKER HOT-KEYs ㊲ *twice* and using the ADJUST keys ㊱ to select ON or OFF from the display (Fig. 4.10).

Sub-woofer crossover

The factory setting for the crossover frequency between small system speakers and the sub-woofer is 100Hz which should be adequate for most systems. If required, however the crossover frequency may be changed to better match the low-frequency 3dB response specification of 'small' system speakers. The procedure for re-setting the crossover frequency is as follows-

1. Press the SUB/LFE key from the SPEAKER HOT-KEYs ㊲ *three* times. The display will show 'SUB X-OVER' and the frequency currently set.
2. To change this frequency in the range 50Hz-150Hz, use the ADJUST keys ㊱.

Note:- If all system speakers are set to 'large', the sub-woofer crossover frequency will have no effect.

Setting special modes of operation

LFE (Low Frequency Effects) level adjustment

The level of the LFE special effects channel may be adjusted independantly from other level settings. The range of adjustment for LFE level is 0dB to –15dB. The factory setting is 0dB.

LFE level may be changed as follows-

1. Play some program material which includes LFE information.
2. Press the MODE key ㊴ until the display shows 'LFE level' and the current setting (Fig 4.12).
3. To change the level of LFE, use the ADJUST keys ㊱.

Note:- When a sub-woofer is not selected the LFE channel information will be routed to any 'large' system speakers to avoid information loss.

Dynamic compression

Two dynamic compression settings are provided to reduce the dynamic range of the system. When dynamic compression is selected, louder passages will be reduced in volume slightly whilst quieter passages will be increased slightly. The degree of this effect is greatest with the 'HIGH' setting. This feature is useful with speaker systems of reduced capacity or for late-night listening. Some experimentation is recommended to find the best setting.

Dynamic Compression selections may be made as follows-

1. Press the MODE key ㊴ until the display shows 'Dyn. Compression' and the current setting (Fig 4.13).
2. To change the setting between OFF, LOW and HIGH, use the ADJUST keys ㊱.

Note:- Dynamic compression will only be effective when playing Dolby Digital program material.

OPERATING THE *CYRUS AV8*

Key to the front panel drawing (Fig.2):

20. Standby key	24. Text area
21. Standby light	25. Speaker map
22. Remote eye	26. Level control
23. Volume bar-graph	27. Input select

Key to the remote control drawing (Fig.3):

30. Mute	36. Adjust keys
31. Stereo	37. Speaker hot-keys
32. Input select	38. Input name set-up
33. Standby	39. Mode set-up
34. Level adjust	40. Noise set-up
35. Exit set up	

* Keys marked with this symbol are not activated for the *AV8*

Remote Control Options

In addition to the remote control supplied with the *AV8*, many other programmable system remote controls are compatible with the *AV8* remote system. A full table of remote control commands is listed in the Specifications section of this handbook, including additional command codes for direct access input selection.

Power Control

The mains power switch ⑯ is located on the rear panel. This switch should normally be left on. If the unit is left unattended for long periods it should be switched off or the product disconnected from the mains power supply.

When power is applied, the STANDBY key on the front panel ⑳ or remote control ㉝ is used for power control. The Standby light ㉑ glows green when the *AV8* is operating and red when in standby mode.

When the *AV8* is switched to Standby all control settings are remembered for next use.

Selecting an input

Inputs may be selected from the front panel INPUT SELECT buttons ㉗ or with the remote control INPUT SELECT keys ㉜. As a new input is selected the input name and number are displayed briefly, changing to show the name and decoding system after a few seconds (Fig. 4.14).

Selecting the correct multi-channel decoding mode

Multi-channel

The *AV8* can decode multi-channel surround sound recorded with Dolby Digital, DTS or Dolby Surround encoding systems. Selection of the correct surround decoding mode is fully automatic and the current decoding mode will always be shown on the display.

Dolby Pro Logic II options

Music and Movie modes

The Dolby Pro Logic II decoding system includes selectable sound responses optimised for both Movie and Music reproduction.

The Movie response will correctly decode all Dolby Surround encoded movie soundtracks using the enhanced features of the Pro Logic II decoding system to give stereo surround channel information with a full frequency bandwidth. To switch between Movie and Music modes, press the MODE key ㊴ once and use the ADJUST keys ㊱ to change the setting.

Additional settings for Music mode

The Music response enables multi-channel reproduction of stereo music program material and is user-configurable in the *AV8* for setting listener options of Centre channel width, Dimension and Panorama. These options may be accessed by further pressing the MODE key ㊴ to reach the second, third and fourth options, the setting may then be changed with the ADJUST keys ㊱.

The Centre channel width setting varies the perceived width of centre channel information from 0 (narrowest) to 7 (widest) by progressively moving centre channel information into the front left and right speaker channels. The Dimension setting adjusts the soundfield balance from 0 (balance towards the rear) to 6 (balance towards the front). The Panorama setting, when switched on, additionally provides a 'wrap-around' effect by mixing front channel information into the surround channels.

The current settings will be memorised until next changed through the menu system.

NOTE:- Centre width, Dimension and Panorama settings may not be changed when set to Movie mode, 'Music only' will be displayed if these menu options are selected.

Stereo

If a two-channel signal is detected the *AV8* will automatically select Dolby Pro Logic II decoding. If stereo reproduction is required (for CD music etc) the STEREO key ㉛ of the remote control will switch between Pro Logic II surround and Stereo decoding. An additional Stereo + Sub mode is available via a second press of the STEREO key ㉛ which activates Stereo decoding with bass reinforcement from the subwoofer (when connected).

Press the STEREO key ㉛ again to return to surround decoding.

NOTE:- When purchasing program discs or tapes, check the legends on the sleeve to ensure compatibility with the listed systems.

NOTE:- Some discs (e.g. DVD) may provide a selection of audio encoding systems or a choice of languages. In this case the correct system/language is selected from the control menu of the DVD player.

NOTE:- The *AV8* employs an 'auto-mute' feature for DTS encoded program material. If the DTS signal is interrupted (e.g. during fast search or when changing discs) the display will read 'AUTO-MUTE' (Fig 4.16) until the signal is restored. When changing from DTS programs to stereo, it is necessary to re-set the auto-mute function with the MUTE key ㉚.

Level Control

The volume level is adjusted by the rotary LEVEL control on the front panel ㉖ or the LEVEL keys on the remote control ㉞. When the volume is adjusted the main display will switch briefly to show the setting in dBs (Fig.4.15). Additionally, the display bargraph ㉓ shows the volume level at all times.

Adjusting channel balance and Subwoofer level

The channel balance settings may be adjusted at any time from the remote control with the SPEAKER HOT-KEYs ㊲. Choose a speaker to adjust with one of the keys then correct the channel balance with the ADJUST keys ㉞. The bottom row of the display will show the channel balance setting in the range –10dB to +10dB (Fig. 4.5 shows centre channel adjusted up by 2dB).

The Subwoofer level can be adjusted in the same way after first selecting SUB/LFE from the SPEAKER HOT-KEYs ㊲.

TROUBLESHOOTING GUIDE

If your *Cyrus AV8* is not operating properly, disconnect the power and carefully check all connections and the set-up procedure using the notes in this handbook. If problems persist, the checklists below may help.

If you are in any doubt, consult your dealer.

No sound from any speaker with any source	
Power amplifiers not switched on.	Switch on all of the system amplifiers
Incorrect source selected.	Check source selection and input set-up procedure (page 3).
No sound from any speaker with one of the sources	
Incompatible audio format	Check the audio format of the disc/tape to ensure it is compatible with the *AV8*.
Input for this source may not be correctly set up.	Check source selection and input set-up procedure (page 3).
No sound from some of the speakers	
One or more of the speakers may not be selected.	Check the speaker selection settings in section 'Setting speaker sizes' (page 3).
No sound from the sub-woofer	
Subwoofer may not be selected.	Check sub-woofer selection in section 'Setting speaker sizes' (page 3).
Subwoofer level set too low.	Check subwoofer level settings at both the *AV8* and the subwoofer.
All speakers are set to 'large' and no LFE channel information is present.	Check another program which has LFE channel information.
LFE channel may not be recorded.	Check another program which has LFE channel information.
Loud noises from the speakers with certain sources or discs	
Incompatible audio format for multi-channel sound.	Check the audio format of the program to ensure that it is compatible with the *AV8*.
Automatic set up will not work	
Microphone not connected.	Connect microphone.
Mic error message on the display	Check that the microphone battery is fitted and does not need replacing.
Automatic set-up fails during operation.	One or more of the speakers may be out of range. Use manual calibration.

WARRANTY

The warranty card enclosed should be completed by the Dealer and the purchaser and returned to *CYRUS* or its Distributor within 8 days of purchase. No Dealer or Distributor may vary the terms of this warranty which is personal to the original Purchaser and is not transferable.

Please retain the sales receipt as proof of purchase.

Warranty claims must wherever possible be made through the Dealer from whom the equipment was purchased.
This warranty excludes:

- Damage caused through neglect, accident, misuse, wear and tear, or through incorrect installation, adjustment or repair by unauthorised personnel. Any unauthorised servicing will result in loss of guarantee.
- Liability for damage or loss occurring in transit to or from the purchaser.
- Consequential damage, loss or injury, arising from or in conjunction with this equipment.

Equipment for attention under warranty should be consigned return carriage paid. If returned equipment is found to comply with the published specification, *CYRUS* reserves the right to raise a charge.

The above conditions do not affect your statutory rights as a consumer.

Specifications

Power Supply

Voltage:.....As plate on rear of unit
Power consumption ..... (15W)
Safety Requirements .....EN 60065
EMC compliance..... EN55013 & EN55020

Enclosure

Dimensions (WxHxD)..... 215 x 75 x 365mm
Weight.....2.8Kg
Material .....Die cast chassis

Audio Performance

Analogue Inputs

Input Sensitivity.....200mV
Input Impedance 47kΩ
Input Overload level (1KHz, 0.01%THD).....2.165V
S/N ratio, (500mV i/p, max.vol.)..... 80dBA
THD+N, (500mV i/p, max.vol.).....0.008%
Channel separation (1kHz).....99dB

Digital Inputs

Input voltage .....500mV pk-pk
Input Impedance 75Ω
S/N ratio, (PCM in, 0dBFS)..... 94dBA
THD+N, (PCM in, 0dBFS).....0.008%

Analogue Outputs

Output voltage.....380mV
Output Impedance 220Ω
Max output voltage.....3.9V
Tape output voltage (PCM in, 0dBFS).....2V

Decoding systems

PCM Stereo, Dolby Pro Logic II, Dolby Digital, DTS

Remote command specification

The remote command specification will be necessary when setting up a programmable handset with a personal computer.

Transmission protocol:..... Philips RC5
RC5 Device address.....19 (Amplifier 2)

RC5 command list

1	Input 1
2	Input 2
3	Input 3
4	Input 4
5	Input 5
6	Input 6
7	Input 7
8	Input 8
9	Input 9
12	Standby
13	Mute
16	Volume up
17	Volume down
32	Input scroll up
33	Input scroll down
37	Stereo
80	Adjust up
81	Adjust down
83	Exit
88	Noise setup
91	Left front select
92	Centre select
93	Right front select
98	Left surround select
100	Right surround select
110	Input setup
111	Mode setup
118	Subwoofer setup