User Instructions Cyrus AV-Master

AV master

Congratulations on the purchase of your *Cyrus AV master*. This piece of equipment is a precision manufactured state - of - the - art product, constructed to the highest standards and specifications. This manual contains installation and operating instructions to enable the user to connect up and operate the unit correctly, thus ensuring the greatest satisfaction and long term use. This instruction manual is divided into 8 sections;

To enable you to make full use of the comprehensive facilities of the *AV master* we would suggest that you read these sections carefully. They will explain the fundamental operations of the unit and how it can be operated in conjunction with other products to provide a high performance surround sound system.

CAUTION

POLARISED CONNECTOR (115V PRODUCTS ONLY)

To prevent electrical shock, match wide blade of plug to wide slot and fully insert

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond

CAUTION

When installing the *AV master* please ensure that there is a clearance of at least 10 cm. round the top and right hand side of the unit to enable access to the rear mounted mains power switch

Your *Cyrus AV master* is factory set to operate from a fixed mains supply voltage, which is marked on a label at the rear of the unit. Before connecting, check that this voltage is the same as your supply, i.e.

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

UNPACKING

Always follow the instruction handbook and retain it in a safe place for future reference.

Before proceeding with installing the *AV master,* ensure that the following items are included in the accessory box;

- Instruction Manual
- Mains Power Cable
- Remote Handset
- Miniature alignment microphone
- Battery for above
- 2 Loudspeaker plugs
- 2 RCA phono output cable
- Guarantee Card

After removing these items, please retain the packing for future use.

LOCATION

Install the *AV master* in a well ventilated location where it will not be exposed to high temperature or humidity. Avoid installing the *AV master* in a location which is exposed to direct rays of the sun, or near to hot appliances or radiators. Placing and using the *AV master* for long periods on heat-generating sources will affect performance and may damage the cabinet. Installation in a damp or dusty environment may result in malfunction or accident.

RE-LOCATING

The *AV master* is supplied ready for use in your location. Care has been taken to ensure that the power supply requirements are correctly set. Consult your *Cyrus* distributor to arrange for conversion or your *AV master* should you move to another area with a different mains voltage.

PRECAUTIONS REGARDING INSTALLATION

It is important not to let any liquid or foreign objects fall into this unit. When routing the power cable avoid running it over or near sharp objects.

If the *AV master* is not to be used for a long period of time, unplug the unit from the mains power supply.

This unit contains no user serviceable parts, therefore do not remove any panels from the unit or attempt to service the unit. In the unlikely event of a failure, please refer to qualified service personnel.

POSITIONING THE UNIT

The *AV master* may be positioned as a free standing unit or alongside another piece of audio equipment. Never store the *AV Master* under another unit. This may adversely affect efficient cooling of the *AV master*. Never place the *AV master* on a carpet or similar material which may hamper normal ventilation.

CONNECTING THE UNIT

All connections to the *AV master* are on the rear panel with the operational controls and display located on the front panel. Please refer to Page 10

The Mains Supply

The moulded IEC connector of the mains lead supplied should be plugged in to the power inlet ⑬ on the rear of the unit. The mains fuse ⑭ is located on the rear panel next to the power switch ⑮. It must only be replaced with the following types;

UK/Europe - 230V	T1A
N.America/Far East - 115V	T2A

In the U.K., the *AV Master* comes with the mains plug fitted. In the unlikely event that the plug fuse should need replacing ensure that it is only replaced with a 3 Amp Fuse.

INSTALLING AN AV SYSTEM

The *AV master* is a versatile six-channel Home Theatre decoder unit which can be installed in two ways. Installation and operation instructions are given for both options. The options are-
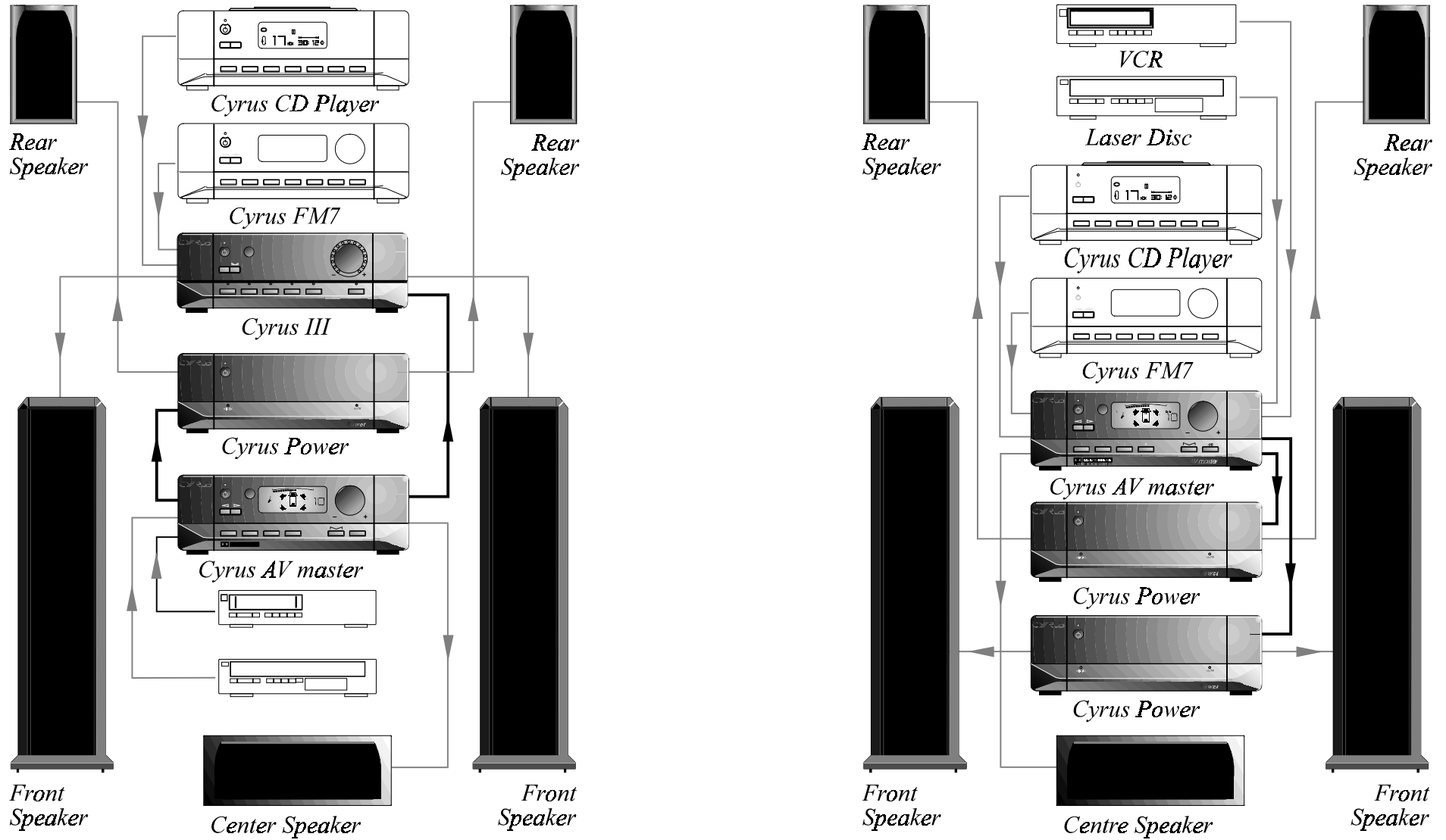
'System 1', where a separate integrated amplifier (or a pre/power combination) is also installed in the system. The audio sources are connected to the system amplifier, whilst the audio visual sources are connected to the *AV master*. The audio will operate independently of the *AV master* whilst the *AV master* will fully control the audio visual sources. (You will need an additional *Cyrus* Power amplifier to ensure full functionality of front and rear channels.).

'System 2', where the *AV master* is installed with power amplifiers for the front and rear channels. In this way, as many as four input sources may be connected to the *AV master* and all input selection and volume control adjustments take place through the *AV master*.

NOTE:- Certain connections and operating procedures apply only to a 'System 1' set-up. These sections are highlighted as in this example.

System 2 owners should skip these sections.

Examples of both systems are shown on the next page. Inter-wiring between the *Cyrus* amplification components are shown as bold lines.

Cyrus CD Player

Cyrus FM7

Cyrus III

Cyrus Power

Cyrus AV master

Rear
Speaker

Rear
Speaker

Front
Speaker

Center Speaker

Front
Speaker

VCR

Laser Disc

Cyrus CD Player

Cyrus FM7

Cyrus AV master

Cyrus Power

Cyrus Power

Rear
Speaker

Rear
Speaker

Front
Speaker

Centre Speaker

Front
Speaker

POSITIONING THE SYSTEM COMPONENTS

### Location of the TV monitor in a Home Theatre system

The TV in a *Cyrus* Home Theatre system should ideally be located centrally at the front of the chosen viewing area. The monitor location should allow correct positioning of the left and right loudspeakers.

Positioning the loudspeakers

The main left and right loudspeakers should be placed on each side of the TV monitor, equi-distant from the viewer. If domestic conditions restrict the placement of the speakers, the *ALS* (auto-alignment system) of the *AV master* may be used to compensate for any inaccuracies in volume level which result. Set up the front speakers for best stereo results in accordance with the manufacturer's instructions.

Surround channel speakers should be positioned behind the listener on the side walls or rear wall. The loudspeakers should ideally be mounted high enough to avoid acoustic masking by furniture. Good results and minimum visual impact can often be achieved by mounting the loudspeakers at ceiling height.

The centre channel dialogue speaker should be located centrally, above or below the TV monitor to link the centre channel sound closely to the on-screen action.

2-4 Metres

Surround speakers
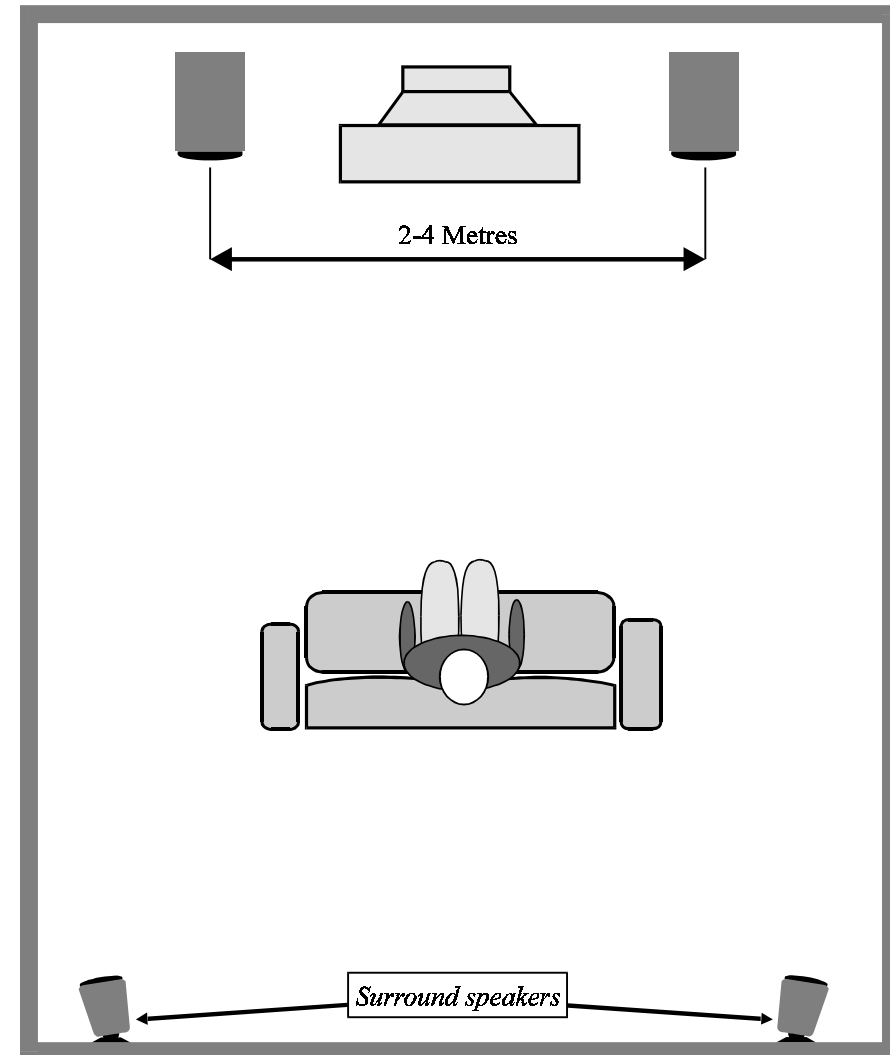
CONNECTION

Before proceeding to connect the *AV master*, ensure that all system components are disconnected from the mains power supply.

For a system 1 installation: Please ensure that the main system amplifier and source components have been installed and fully tested before connecting the *AV master* and the audio visual sources to the system.

Installation cautions

- All stereo audio signals must be correctly connected for left and right channel alignment. Stereo RCA phono interconnects are colour coded to assist with channel identification.

- All speaker connections must be checked to ensure phase polarity. The + or red speaker terminal must always connect to the + or red amplifier terminal. Speaker cables are marked with a moulded or coloured tracer to enable channel identification.

- The *AV master* is not designed for connection to video signals. Permanent damage may result if video connections are made to the audio inputs.

The numbers in the text of the following section refer to the rear panel view on page 10

AUDIO CONNECTIONS

Connecting inputs to the *AV master*

Up to four inputs may be connected to the *AV master* audio line inputs AV1-AV4 ①-④. These could be from audio visual program sources such as a TV monitor audio output, VCR, video disc player or a home video camcorder or from stereo audio sources such as a CD player, FM tuner or cassette deck. For each input, connect a stereo RCA phono interconnect from the audio output connections of the source to the chosen rear panel input sockets AV1-AV4 ①-④.

Connecting a VCR or cassette deck for audio recording

Record output connections are also available for a VCR or stereo cassette deck. Connect a RCA phono interconnect from the *AV master* REC OUT sockets ⑤ to the line audio inputs of the VCR or cassette deck.

VIDEO CONNECTIONS

The audio outputs of your video recorder, laser disc player, etc should be connected to the *Cyrus AV master* line inputs. Video outputs should be connected to the TV monitor (or video processor if you have one). Please consult the user manuals of your TV and video components for details.

CONNECTING THE FRONT CHANNEL MAIN AMPLIFIER

For System 1, front channel amplification is provided by a stereo integrated or pre/power amplifier at the centre of an existing audio system. In this case, connect the video input sockets of this amplifier to the FRONT sockets ⑥ of the *AV master*.

NOTE:- When connecting to a *Cyrus* stereo system the video input of the amplifier *must* be used to achieve the correct level calibration settings. For other amplifiers which may not have a specific video input any line input will be suitable.

For System 2, front channel amplification is provided by a stereo power amplifier. Connect a stereo phono interconnect from the FRONT sockets ⑥ of the *AV master* to the corresponding inputs of the front channel power amplifier.

CONNECTING THE REAR CHANNEL SURROUND AMPLIFIER

A stereo power amplifier can now be connected for the rear surround channels. Connect a stereo phono interconnect from the REAR sockets ⑦ of the *AV master* to the signal inputs of the surround channel power amplifier.

LOUDSPEAKER CONNECTION

Position the loudspeakers for the front and surround channels and cut the speaker cables to length allowing some for cable dressing. Connect the speaker cables to the front and surround amplifiers and speakers. Refer to the instructions and cautions in the amplifier handbooks.

Centre channel loudspeaker

Position the centre channel dialogue loudspeaker either above or below the TV monitor. Prepare a suitable cable and connect the speaker to the *AV master* CENTRE sockets ⑪.

The system speaker connections are now complete. Re-check each speaker cable connection for the correct channel and phase polarity. An incorrect connection will compromise the sonic performance of the system.

If you are using high performance amplifiers to drive the front speakers, you may wish to add a monoblock to the centre channel. A special line adaptor is available to convert both the impedance and signal level from the centre channel output of the *AV master* to the line level needed for monoblock operation. Connected in this way, the centre channel will function as a high quality preamplifier, enabling you to optimise the *AV master's* centre channel performance.

For details of this impedance convertor, please consult your *Cyrus* dealer.

SUBWOOFER CONNECTION

Subwoofer selection

A subwoofer may be added to the system to enhance deep bass performance. When selecting a subwoofer, an 'active' design (with internal amplifier) is preferred as the *AV master* can provide full remote control of active subwoofer level. Passive subwoofers must be connected to the front system speakers and cannot be independently controlled in this way.

Active Subwoofer connection

Subwoofers may have single or dual input connections.

For single input subwoofers, use a single RCA phono interconnect and connect from the line input of the subwoofer to the top SUB OUT socket ⑧ of the *AV master*. For stereo or dual input subwoofers, use a stereo RCA phono interconnect from the line inputs of the subwoofer to both SUB OUT sockets ⑧ of the *AV master*.

PSX-R CONNECTION

If a *PSX-R* is to be used with the *AV master*, connect the umbilical cord of the *PSX-R* to the 5-pin *PSX-R* INPUT socket ⑫ of the *AV master*. When correctly fitted, the connector will latch into place in the socket. Note that when a *PSX-R* is in use, both the *PSX-R* and the *AV master* will require mains power.

NOTE: For more details of the *Cyrus PSX-R*, please refer to the *Cyrus PSX-R* instruction manual.

Where the *AV master* is used in conjunction with an existing stereo audio system, the operation of the stereo amplifier and its connected input sources remains completely separate from the audio visual inputs and extra sound channels provided by the *AV-master*. The *AV master* should therefore remain set to standby unless an audio visual source is to be selected. *(If you own other Cyrus components, you can extend this functionality - please refer to Page 21 for details)*

POWER CONTROL

The mains power switch is located at the rear of the unit. This switch should be left on for normal operation, except when the unit is left unattended for long periods. In this case the mains power should be switched off or the product disconnected from the mains power supply.

The numbers in the following text refer to the front panel drawing on page 10.

When the *AV master* is in regular use and the power is on, the STANDBY key ② can be used for power control. The STANDBY light ③ will indicate red when the unit is off (in standby mode) and green when operational. Remember also to switch on the system amplifiers when the *AV master* is in use. Cyrus components can operate automatically if required *(see P. 21.)*
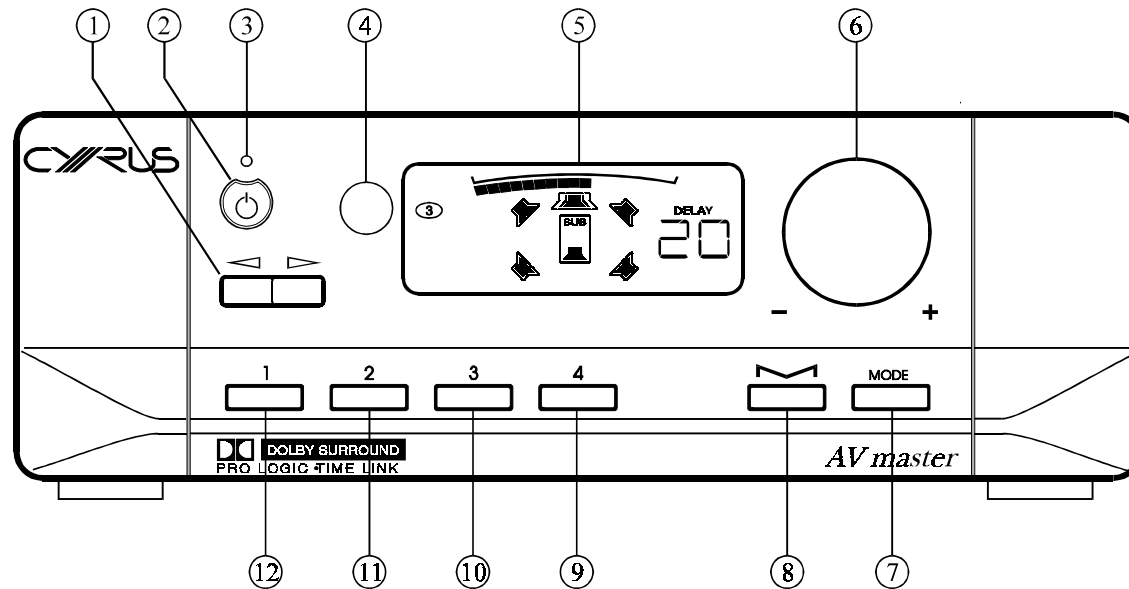
Cyrus AV master- Front panel controls

1	Up/Down select	7	Sound mode
2	Standby key	8	Memory store
3	Standby light	9	Input 4 select
4	Remote eye	10	Input 3 select
5	Display window	11	Input 2 select
6	Level control	12	Input 1 select
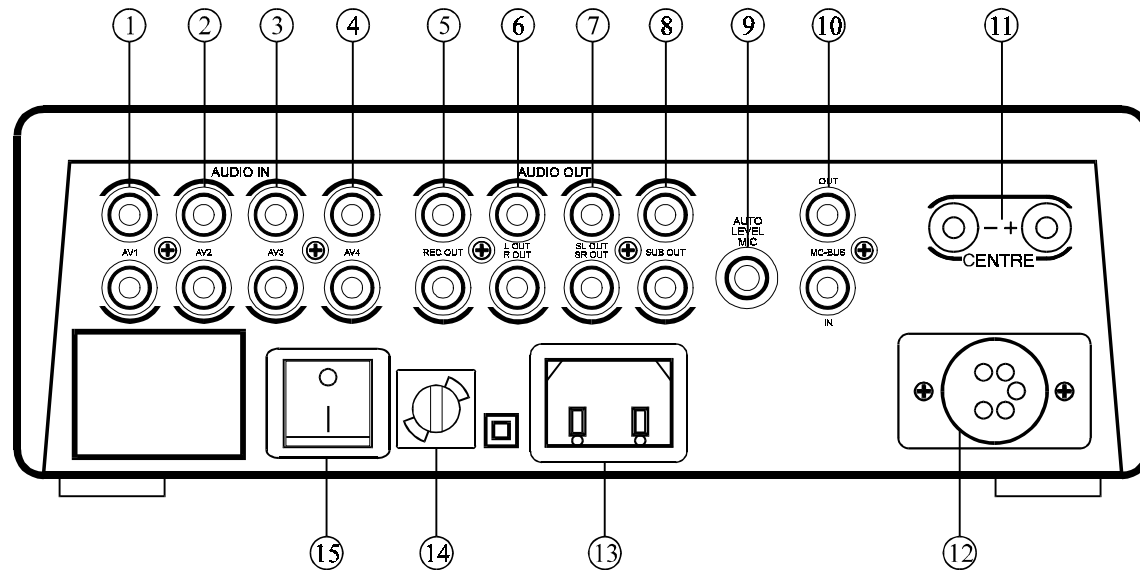
Cyrus AV master- Rear panel connections

|			
1	Input source 1	9	*ALS* microphone
2	Input source 2	10	MC-Bus In/out
3	Input source 3	11	Centre speaker
4	Input source 4	12	Cyrus *PSX-R*
5	Record output	13	AC power inlet
6	Front output	14	AC power fuse
7	Rear output	15	AC power switch
8	Subwoofer output		

Careful setup of an A/V system is critical if the system is to work properly. Please read the following sections thoroughly and carry out the operations indicated in the proper sequence.

SETTING THE REFERENCE LEVEL

For owners of a 'System 1' set-up (see pages 4 & 5) where front channel amplification is provided by a stereo integrated amplifier or Pre/Power amplifier combination, it is essential to set the volume control of this amplifier to a known reference level when used with the *AV master* as follows-

With some *Cyrus* amplifiers, including *Cyrus Pre, Cyrus III*, this setting can easily be achieved. The following procedure should be followed each time the system is used-

•   Adjust the volume level slowly until the volume display matches the diagram. When correctly set the volume displays one green light in the indicated position (two o'clock). The amplifier reference level is now accurately set.
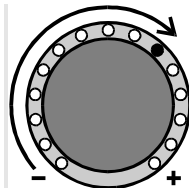
With other amplifiers the volume control should be set at that point where the noise burst levels are of equal loudness when the *AV master* is in manual calibration mode. (Refer to P. 12 for details)

CAUTION:- Remember to reduce the volume setting before switching the main amplifier to another input source.

CALIBRATING THE SYSTEM- SPEAKER LEVEL

Accurate speaker level calibration is critical in a Home Theatre system to project the most realistic sound image.

The MISSION auto-alignment system *ALS* provides a fast and accurate automatic level setting system. An essential requirement is the miniature microphone (supplied) which connects to the AUTO LEVEL MIC socket ⑨ on the *AV master* rear panel. Before connecting the microphone to the socket the battery must be fitted. Unscrewing the barrel from the microphone plug case will expose the battery holder. Fit the battery into the holder observing polarity and re-fit the barrel to the plug. The microphone can now be plugged in.

NOTE:- If the *ALS* system is not in regular use, disconnect the microphone and remove the battery.

ALS calibration is only necessary when initially setting up the system, when moving to a new listening position or when changing any of the system loudspeakers. The *AV master* will memorise *ALS* settings each time the STANDBY key ② is operated or when storing settings in the memory.

Although the *ALS* system is the most accurate and efficient way to calibrate the system loudspeakers, a manual alignment option is available. The following page gives details of both methods.

ALS SPEAKER CALIBRATION

To auto calibrate the five main channels using *ALS:*

- Check that the main amplifier video input is selected and the reference level has been set ('System 1' only).
- Connect the microphone to the rear panel socket.
- Hold the microphone in the chosen listening position at head height (the microphone can also be fixed to soft furniture with the clip provided).
- Press and hold down the MEMORY STORE key ⑧ and then press the MODE key ⑦. Release the keys and the speaker symbols on the display will flash as the system prepares for calibration.

A burst of sound will be heard through the centre channel speaker increasing in volume until it reaches the *ALS* calibration level*. The *AV master* will now sequence the other channels completing level alignment in 5 seconds. During the sequence the display indicates which speaker is adjusted by flashing the central part of the speaker symbol.

To exit *ALS* depress the STANDBY, or SOUND MODE key.

*It is possible at this point to alter the *ALS* level (up or down) manually with the level control. If you overstep the mark an error message will appear and you will need to repeat the sequence.
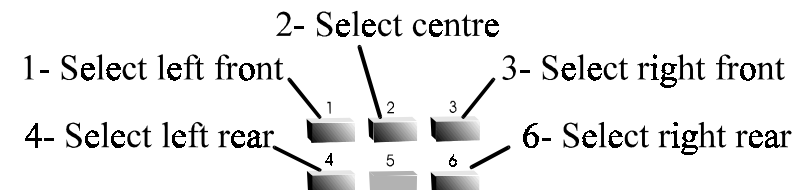
The instructions in the following section should be read in conjunction with the remote handset guide on pages 18-19.

MANUAL LEVEL CALIBRATION

- Disconnect the *ALS* microphone from the the *AV master*.
- Hold down the front panel MEMORY key ⑧ and press the MODE key ⑦ to begin calibration.
- A burst of sound will be heard from the centre channel speaker. Use the LEVEL CONTROL ⑥ to set a comfortable listening level.
- When this level is set the *AV-Master* will automatically sequence each channel in turn.

As the sound is heard from each channel the front panel LEVEL CONTROL ⑥ or the LEVEL CONTROL keys of the handset can be used to adjust the level to match the sound level set initially from the centre channel.

The automatic sequencing of the channels can be interrupted by pressing the MEMORY STORE key of the handset. A specific channel can be selected from the listening position through the following handset keys-

2- Select centre
1- Select left front   3- Select right front
4- Select left rear   6- Select right rear

To continue with automatic channel cycling, press the MEMORY STORE key of the handset once more.

Selecting the MODE key ⑦ or STANDBY key at any time will cause the unit to return to normal operation.

SELECTING A PROGRAM SOURCE

Audio selection

To select a program source which is connected to the *AV master*, touch the appropriate front panel input selector key 1-4 ⑨-⑫ of the *AV master*. The selected input will show in the display window.

Owners of a 'System 1' installation should also select the VIDEO input of their main amplifier at this time and set the volume control to the reference level (see- 'setting the reference level', page 11).

NOTE:- *Cyrus* amplifiers may in some cases be updated to enable automatic setting of the input selector and reference level via the MC-Bus system. Please refer to your dealer for further details.

Video selection

If the selected program is audio-visual, switch on the TV monitor and select the appropriate line input or TV channel to view the program. Ensure that the TV volume is set to minimum, or bypassed.

When selection has been correctly made, set the program source to PLAY. (Refer to later sections of this handbook for instructions to set the desired sound mode and volume level.)

VOLUME/LEVEL ADJUSTMENTS

Volume control

To adjust the volume level of all speaker channels, rotate the LEVEL CONTROL ⑥- clockwise to increase the level. or anti-clockwise to reduce it. The display shows this volume setting both on the display bar graph and numerically.

Manual level trim

It is also possible to fine trim the speaker levels manually. This may be necessary to optimise the system performance for different types of program material. Trim operations can be initiated only by pressing the appropriate key on the remote handset keypad (the numbers refer to the remote control diagram on page 19)-

- Left/right balance adjustment (BALANCE key ②)
- Centre level trim adjustment (CNTR key ⑫)
- Rear surround channel level adjustment (REAR key ⑪)
- Subwoofer level adjustment (SUB key ③)

The trim level is then adjusted with the remote control level adjust keys ⑨, ⑩ or the front panel LEVEL CONTROL.

The *AV master* includes a noise generator to assist with manual level trimming. Refer to the 'Additional Information' section for more details of noise modes.

The following diagrams show examples of typical displays when manual trim has been selected.

VOLUME DISPLAY BARGRAPH INDICATION

The master volume bargraph display (below) gives an approximate visual indication of the master volume setting during normal use. The figures at the bottom right of the display show the precise levels, from 0 to 77.

LEVEL TRIM DISPLAY INDICATION

The diagram below indicates the position of the speaker symbols on the display. The speaker symbols flash during manual level trim operations to indicate which channels are being adjusted.

Left front   Centre   Right front

SUB

Left rear   Subwoofer   Right rear
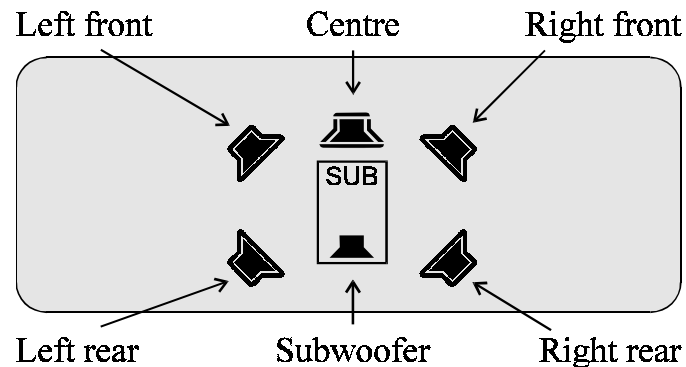
LEVEL TRIM BARGRAPH INDICATION

L   R

For left/right balance trim, the front and rear speaker symbols flash left to right alternately on the display. The bargraph displays a 10dB range left/right. The example above shows balance set with the left speakers 3dB louder than the right.
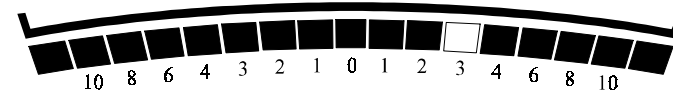
For centre channel level trim the centre speaker symbol flashes on the display. The bargraph displays the full trim range of ±10dB. The example above shows a +3dB trim for the centre channel.
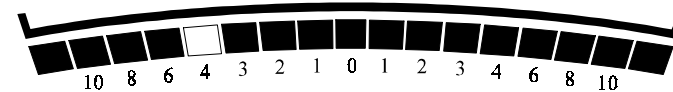
For rear surround channel level trim the rear speaker symbols flash together on the display. The bargraph shows the trim range of ±10dB. The example above shows a trim of -4dB for the surround channels.
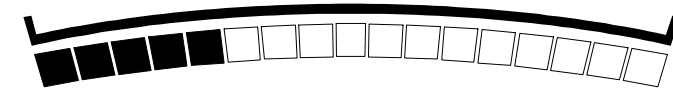
The Subwoofer volume displays a volume bar. The example shows subwoofer volume set to -25dB. A digital readout is also provided.

SOUND MODES

Sound modes are selected with the MODE key ⑦. Each mode will decode the stereo program source material and provide multi-channel sound.

CHANGING THE MODE

The sound mode is changed to the required setting by pressing the MODE key ⑦. Each press of this key will select the next mode in the following sequence.

- Stereo 2 channel
- Stereo with Club effect surround channels
- Stereo with Hall effect surround channels
- Stereo with Church effect surround channels
- Stereo with Stadium effect surround channels
- Dolby Pro Logic Surround 3 channel normal
- Dolby Pro Logic Surround 3 channel wide
- Dolby Pro Logic Surround 3 channel phantom
- Dolby Pro Logic Surround 5 channel normal
- Dolby Pro Logic Surround 5 channel wide
- Dolby Pro Logic Surround 5 channel phantom

The next key selection will return to 2 channel stereo.

Note: 'Dolby', the ◻◻ symbol and 'Dolby Pro Logic' are trademarks of Dolby Laboratories Licensing Corporation.

WHICH MODE TO USE?

The following recommendations are made to help a newcomer to Home Theatre get started.

Stereo CDs, Radio or TV sound;

For reproduction of stereo programme material, choose conventional stereo '2-channel' mode or select 'Stereo' with one of the enhanced surround sound options- Club, Hall Church or Stadium.

Movies recorded in Dolby* Surround, CDs or games consoles;

For reproduction of appropriate program material (which will bear the Dolby Surround logo) the 3 or 5 channel modes are recommended. If your system includes rear channel surround speakers, choose a 5 channel modes, if not, choose a 3 channel mode.

System without a centre channel dialogue loudspeaker

The Phantom options should be selected for 3 or 5 channel modes if your system does not include a centre channel speaker. The sound balance is then adjusted to reinforce the central sound image projected from the front loudspeakers.

Wide option

A 'Wide' setting is available for both 3 and 5 channel modes. 'Normal' modes are recommended for most program material for optimum sound balance. The 'Wide' modes offer increased bass response from the centre speaker.
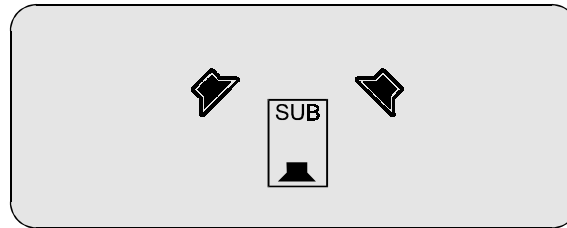
SOUND MODE DISPLAY INDICATION

The various mode settings are displayed in the diagrams below.

2 channel Stereo

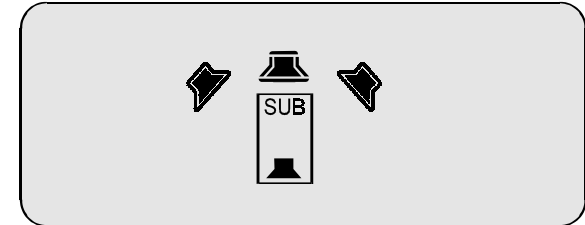In this mode, the two front loudspeaker symbols are shown, accompanied by the subwoofer symbol.

2ch Stereo with surround effect

In this mode the two rear speaker symbols are added to the display, together with one of the surround effects symbols. All four effects symbols are shown in the diagram.

Club   Hall

Stadium   Church
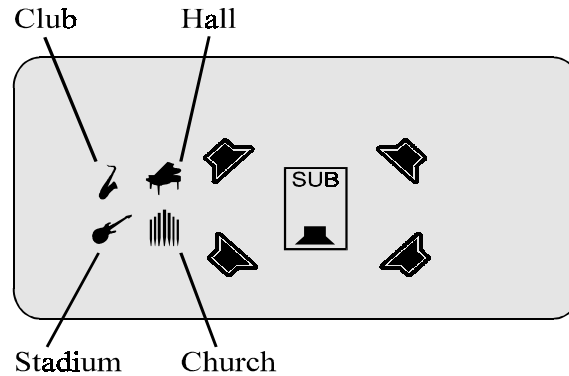
3 channel mode

For 3 channel modes, the two front speaker symbols appear, accompanied by the centre and subwoofer symbols.

5 channel mode

In this mode the two rear speaker symbols are added to the display.
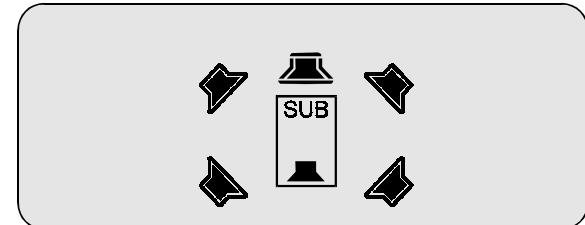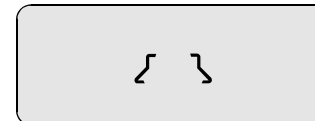
Wide mode

When 3 or 5 channel 'wide' modes are selected, the centre channel symbol is extended as shown.

Phantom mode

When 3 or 5 channel 'phantom' modes are selected, the centre channel symbol changes to show phantom mode.

MEMORY AND PRESETS

User presettable memories

For user convenience and ease of operation the *AV master* includes 28 user presettable memories which can be programmed with a selection of sound mode, channel trim and delay time settings.

All presets are test programmed at the factory for different sound modes. The user may over-write these as required.

This useful feature enables the user to switch quickly and easily between stored settings optimised for a number of different listening conditions. The preset locations may typically contain-

1. Optimised for CD stereo
2. Optimised for CD club surround
3. Optimised for CD hall surround with enhanced surround channel levels
4. Optimised for CDs encoded with Dolby Surround
5. Optimised for 5 channel VCR and laser vision movies
6. Optimised for 5 channel VCR and laser vision movies *without* subwoofer for late night listening
7. Optimised for 5 channel VCR and laser vision movies with 'wide' option.
8. Optimised for TV news broadcasts

Saving sound mode settings in the memory store

To save the current settings for sound mode, level calibration and delay time in the memory store proceed as follows-

Press the MEMORY STORE key ⑧. Use the UP and DOWN keys, ① to select the desired preset memory location. Press the memory store button once more. The current settings will now be stored under the selected preset number. Note that stores number 1 to 28 are available for user storage.

Recalling settings from the memory store

To recall programmed settings from the memory store, use the UP and DOWN keys ① to select the desired preset memory location. As each preset is selected the display will update to the new setting.

Factory programmed preset

Memory preset '0' is a factory setting. Whilst it cannot be changed by the user it is a useful reference guide, which can be recalled when required.

Preset Restore

If, during the process of setting up the system, you accidentally select a preset, you can restore the situation by selecting memory '29' on the handset. This procedure will deselect the preset you have accidentally engaged and revert the system to its previous state.

REMOTE OPERATION OF THE AV MASTER

Most front panel functions of the *AV master* are available from the keypad of the supplied remote control, plus extra features which are only available via the remote control unit.

Noise modes cannot be initiated from the handset

The numbers in the text of the following section refer to the view of the remote control on page 19.

Fitting the batteries to the remote control

Open the battery compartment on the rear of the handset. Fit two AAA batteries (supplied), observing polarity markings.

Power control

The *AV master* may be switched to or from standby with the STANDBY key ⑲ of the handset.

Input selection

To switch between input sources press either the SRC+ ⑤ or SRC- ④ key. The front panel display symbols show the input source currently selected.

Volume control

The master volume level is adjusted with the LEVEL CONTROL keys ⑨ and ⑩.

Mute

Press the MUTE key ①. and the sound will fade out gently. Press once more to restore the current master volume setting.

When the sound is muted, only the outlines of the speaker symbols are displayed.

Level trim

Manual level trim is possible from the listening position through the remote control. Manual trim is initiated by pressing either the MASTER BALANCE key ②, the SUBWOOFER TRIM key ③, the CENTRE CHANNEL trim key ⑫ or the REAR CHANNEL trim key ⑪. Level trim adjustments are then made with the LEVEL CONTROL keys ⑨ and ⑩. If no trim adjustment is made within a period of 3 seconds, the LEVEL CONTROL keys ⑨ and ⑩ will revert to allow adjustment of master volume level

Sound mode selection

The sound mode may be selected by pressing the MODE+ ⑦ or MODE - ⑥ keys of the handset. The sound mode will cycle in the sequence given on page 16.

Delay time adjustment

When the *AV master* is set to operate in Dolby Pro Logic Surround 5 channel mode, a reverberation delay is introduced to the rear channels so enhancing the ambient effect. In this mode the delay time is shown on the digital display in milliseconds (mS). The *AV master* is factory set for an average 20mS surround channel delay time but can be user adjusted in the range 15-30mS in 1mS steps if desired. The ΔT+ ⑮ and ΔT- ⑯ keys of the remote control increase or decrease the delay time setting. Delay time adjustments should be made subjectively whilst listening to Dolby Pro Logic Surround encoded movie or music program material.

Display control

For viewing or listening in subdued lighting, you may switch off the display via the DISPLAY key ⑱ A key press on the front panel or remote will re-activate the display light.

Memory preset selection

The NUMERIC KEYPAD ⑧ of the remote handset is provided for direct recall of favoured settings from the memory store. Enter number (e.g. 7) and the sound mode, trim and delay settings will be changed to the stored values.

NOTE:- A brief delay may be experienced when selecting preset numbers 1 or 2 as the *AV master* waits for a second digit. This can be avoided by entering '01' or '02' if preferred.

Memory preset storage

You may store the current configuration settings of the *AV master* using the remote control handset. To store the current settings press the MEMORY STORE key ⑰, followed by a two digit preset number (e.g. 05) entered via the numeric keypad. The front panel display will show the selected preset number. Press the MEMORY STORE key ⑰ once more and these settings will be stored in the configuration memory.

Refer to the section 'Memory and Presets' on page 17 for more detailed information of the memory preset store.
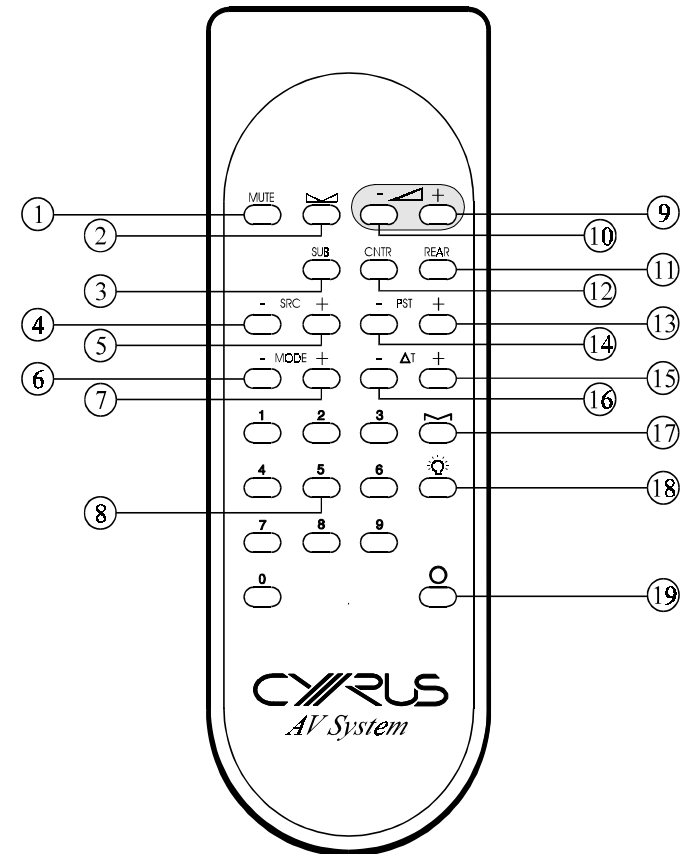
1	Mute	11	Rear Speakers select
2	Balance	12	Centre Speaker select
3	Subwoofer select	13	Preset +
4	Source Select -	14	Preset -
5	Source Select +	15	Delay Time +
6	Sound Mode Select -	16	Delay Time -
7	Sound Mode Select +	17	Memory store
8	Numeric Keypad	18	Display
9	Level Control +	19	Standby
10	Level Control -		

KNOW YOUR *AV MASTER*

Power

- When first switched on from the power switch on the rear panel, the *AV master* will run a self test, checking the internal functions and the LCD display operation. After completion of this cycle the *AV master* will revert to standby mode.

- When set to standby, all current settings are normally retained. If, however, the unit is put in standby mode whilst set to abnormally high volume settings, when next switched on the *AV master* will power on at a master volume level of -15dB .

- In standby, the Centre channel power amplifier is shut down to minimise power consumption and heat generation.

Addition of a *PSX-R*

- The addition of a *Cyrus PSX-R*- a highly regulated DC power supply, will upgrade the sonic performance of all sound channels of your *AV master* by providing a clean, stable power feed for the sensitive multi-channel decoder stages. No adjustments are necessary when connecting the *Cyrus PSX-R* to the *AV master*- refer to page 9 for connection instructions.

The *Cyrus System Commander*

For owners of the *Cyrus System Commander*, the following information may be of some use:

When the *Cyrus System Commander* is used to control the *AV master* it is possible to select the four input sources.

This is achieved as follows:

Using the function key, select 'green' a/v mode. By pressing the Tape (TP) key, you can then scroll through the input sources till you reach the desired one.

Turning the *AV master* on via the *Commander* is also accomplished by pressing the TP key in 'green' mode.

Stereo bypass

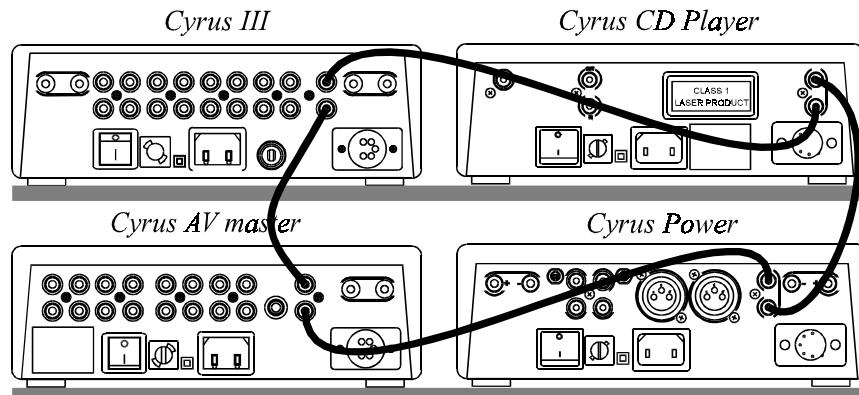When the *AV-master* is set for Stereo sound mode the internal decoder is completely by-passed to ensure the most direct link for stereo signals which require no processing.

The *Cyrus* MC-Bus System

The *AV master* also supports connection for the *Cyrus* MC-Bus. The MC-Bus system enhances functionality and ease of use by harmoniously linking together the intelligent control systems of many *Cyrus* components.

MC-Bus System Connection-'System 1'

MC-Bus connections should be wired as a 'loop' using single RCA interconnects. This typical 'System 1' set-up uses a *Cyrus III* amplifier, *DAD7* CD player, *AV master* and a *Cyrus Power* amplifier for the rear channels. Connect a cable between the MC-Bus output of the *Cyrus III* and the MC-Bus input of the next *Cyrus* component. Wire the MC-Bus output of each component to the next MC-Bus input, finally returning to the *Cyrus III* input to complete the loop.

MC-Bus connections- 'System 2'

This typical 'System 2' set-up features an *AV master*, a *Cyrus* CD player and two *Cyrus Power* amplifiers for the front and rear channels. Starting with the *AV master* output wire the MC-Bus loop of each component to the next MC-Bus input, finally returning to the *AV master* input to complete the loop.

NOTE:- Many *Cyrus* products may be connected as detailed in an MC-Bus loop.

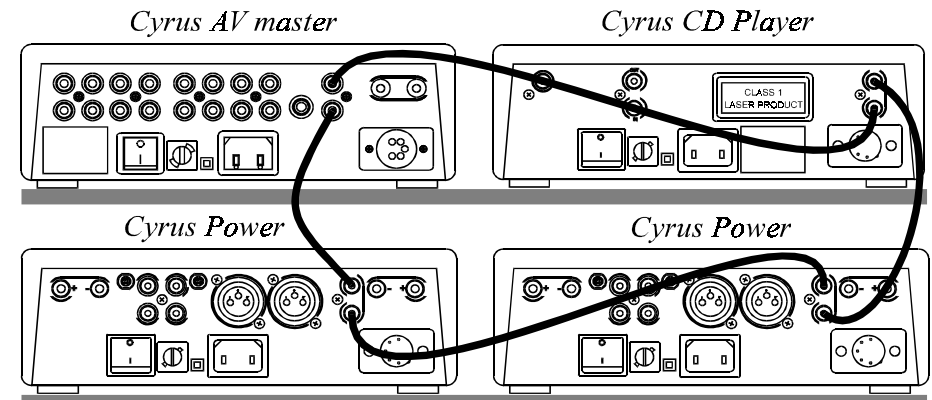It is possible to control the system in the following way-

*   One-touch Standby control for the full system, from the front panel or remote, of the *Cyrus III*, or *Cyrus Pre*.

*   Selecting the VI input of the *Cyrus III*/*Cyrus Pre* will switch on the *AV master*.

NOTE:- On some *Cyrus* amplifiers, selecting the VI input of the amplifier will automatically switch on the *AV master* and set the reference level. For details see the relevant manual.

It is possible to control the system in the following way-

*   One-touch Standby control for the complete system from the front panel or remote control of the *AV master*.

Note. Some Cyrus products are available which do not feature MC-Bus. Products such as the *XPA* power amplifier feature automatic turn-on and shut off, thus rendering them operationally compatible with MC-Bus equipped components.

TROUBLESHOOTING

The installation of a full Home Theatre system can be complex. If the system will not respond correctly after installation we recommended-

- Disconnect the power from the system.

- If you are already own *Cyrus* components, pease read your user manuals thoroughly.

- Check carefully all signal connections between the system components.

- Check all loudspeaker connections at both ends of the cables.

- Re-connect the system power and switch on all components.

- Select the correct input for the front channel amplifier and check the Reference Volume setting at the front channel amplifier if necessary (see page 11)

- Run the *ALS* calibration system, checking that a sound is heard from each speaker during calibration.

- When *ALS* calibration is complete, select an input and set the chosen source to play.

If problems persist, refer to one of following sections for guidance.In the event of an unresolved installation problem, please refer to your dealer for assistance.

No sound from any speakers

- Check that the correct input is selected and the source is set to play.

- Check that the power is switched on for all system amplifiers and that the volume control is not at minimum.

- Check that mute is not on (the centres are removed from the display speaker symbols when muted).

No Sound from the front channels

- Check that the front channel amplifier is switched on.

- Check that the correct input is selected at the front channel amplifier.

- Check that the volume of the front channel amplifier is set to the reference level (see page 11).

No Sound from the rear channels

- Check that the rear channel amplifier is switched on.

- Check that a sound mode is selected with active rear channels.

Low volume level from the front channels

- Check that the volume of the front channel amplifier is set to the correct reference level (see page 11).

Unbalanced sound levels from the sound channels

- Re-calibrate the loudspeaker acoustic levels with the *ALS* calibration system (see page 11).

Unable to complete *ALS* calibration

- Check that all system amplifiers are switched on

- Check that the *ALS* microphone is connected to the rear panel and that the microphone battery is not flat.

- Check that the correct input is selected on the front channel amplifier.

- Check that the front amplifier Reference Level is correctly set (see page 11). If the volume control of the front channel amplifier is set too low, *ALS* calibration may not be possible.

No TV picture or the wrong TV picture

- Check that the TV monitor is set to the correct line input or channel for the chosen source.

- If video connections are 'chained', ensure that all audio visual sources in the chain are switched on and that the line inputs are correctly set.

Front and Effects channels play different programmes

- It is a common problem with non-integrated A/V systems for front and rear channels to be playing different sources. Ensure the amplifier's input is connected to the same source as the *AV master* or set the *AV master* to STANDBY.

SPECIFICATIONS

Centre channel amplifier

Power output (1kHz//8Ω) 65W

THD+N 50W.................... (1kHz//8Ω) ....<0.005%

THD+N 50W................... (20Hz-20kHz//8Ω)............ <0.02%

Frequency response (-3dB)............................... 1Hz, 100kHz

Decoder

Input sensitivity (all inputs) 200mV

Input impedance (all inputs) 47kΩ

Output voltage (all line outputs) 380mV

Channel separation (stereo)..>80dB

Channel separation (5-channel F/C, F/R, C/R).............>35dB

Power supply

Voltage .... See plate at the rear of the unit

Power consumption..120W

Safety requirements.. EN60065

EMC compliance...EN55013

EN55020

Enclosure

Dimensions (HxWxD) .... 73 x 215 x 360 (mm)

Weight 4.6kg

Material .... Magnesium alloy/Aluminium

The company reserves the right to change this specification without prior notice.

This guarantee only becomes effective if the guarantee card enclosed is completed by the dealer and the purchaser and returned to Mission or an approved *Cyrus* distributor within 8 days of purchase.

This guarantee excludes-

i) All damage caused through accident, misuse, wear and tear, neglect or through incorrect installation, adjustment or repair by unauthorised personnel.
ii) Liability for damage or loss occurring in transit to or from the purchaser.

Claims under this guarantee must, whenever possible, be made through the dealer from whom the equipment was purchased or if that is not convenient, through another authorised *Cyrus* dealer.

MISSION shall not be liable for any consequential damage, loss or injury whatsoever, arising from or in conjunction with this equipment.

The cost of carriage (to or from the dealer) shall be borne by the purchaser.

This guarantee is personal to the original purchaser and is not transferable.

If equipment is found on examination to comply with the published specification, MISSION reserves the right to make a charge for examination and for return carriage.

No dealer or distributor has any authority to vary the terms of this guarantee.

Any unauthorised servicing will result in loss of guarantee.

We strongly recommend that you retain the sales receipt for your *Cyrus* equipment in case of any warranty claim.

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

THE MISSION CYRUS GROUP MANUFACTURES
- Loudspeakers
- Loudspeaker Stands
- Loudspeaker Cables
- Integrated Equipment Stands
- Amplifiers
- Compact Disc Players
- D-to-A Converters
- Multi-Room Systems
- A/V Processors