

User Instructions
Cyrus MR3

Cyrus MR3

Fig 1

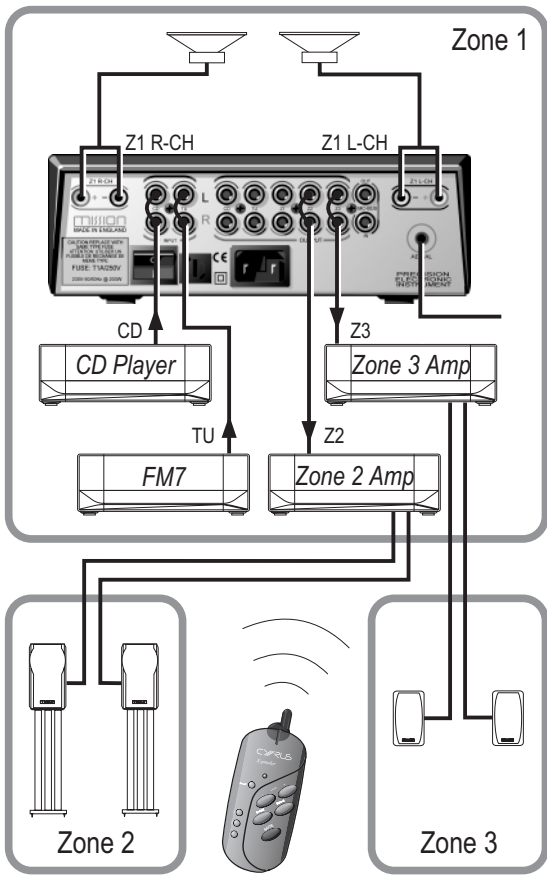


Fig 2

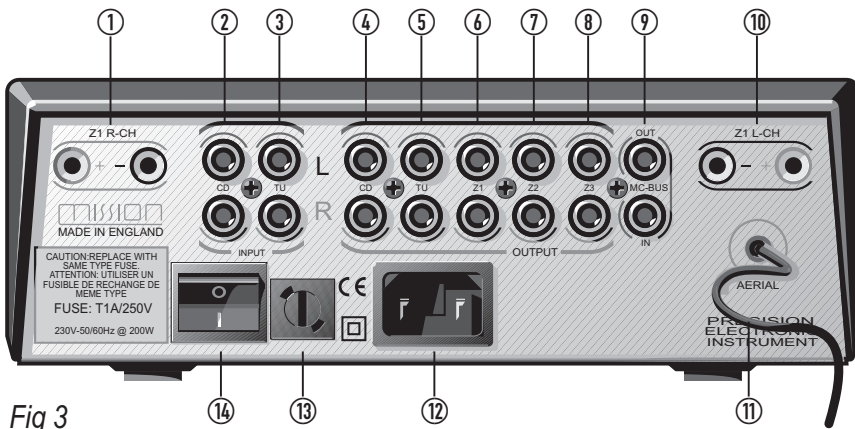
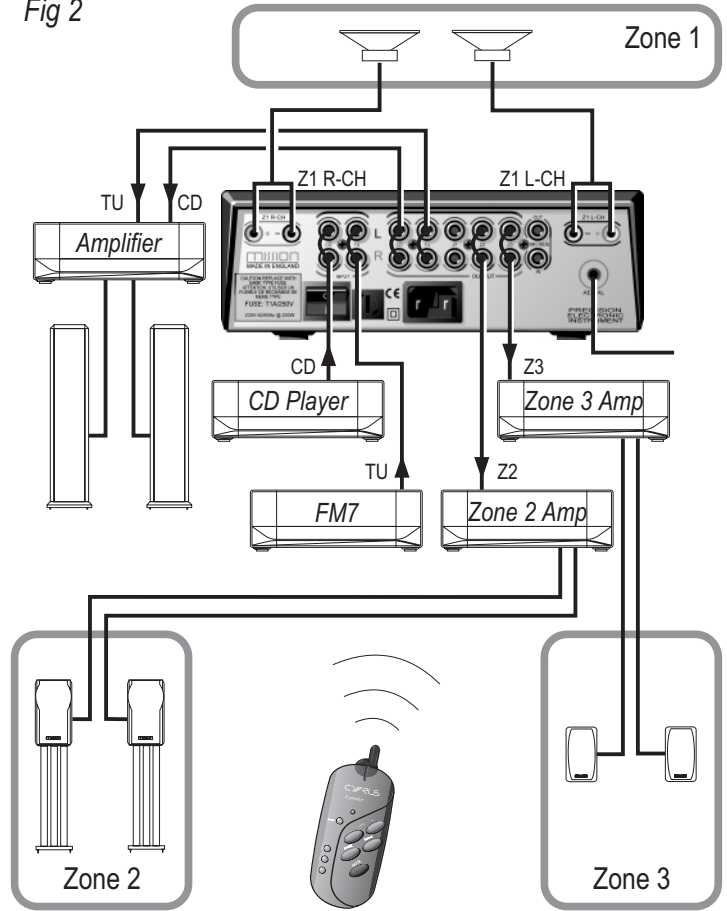


Fig 3



Fig 4

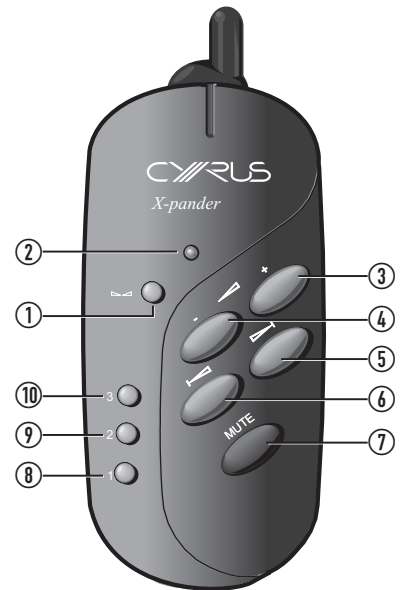
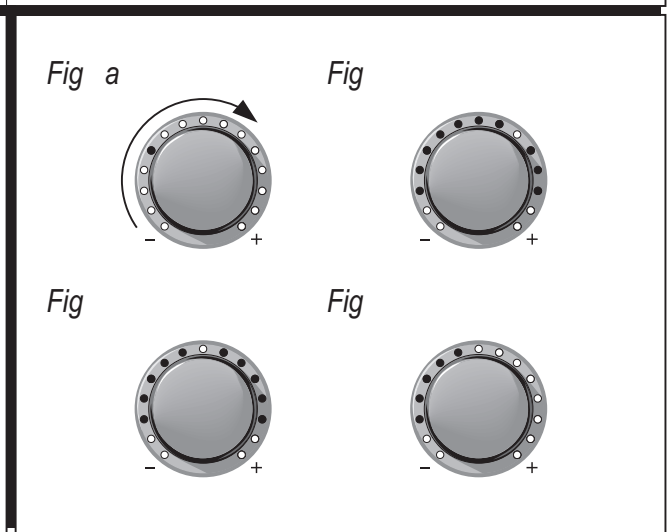
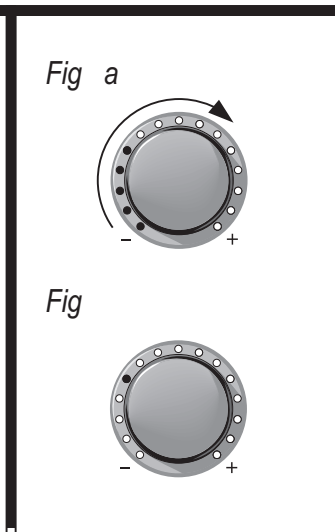
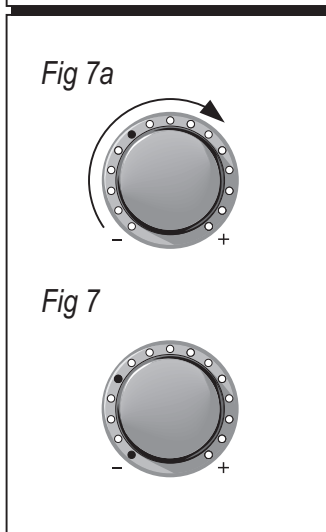
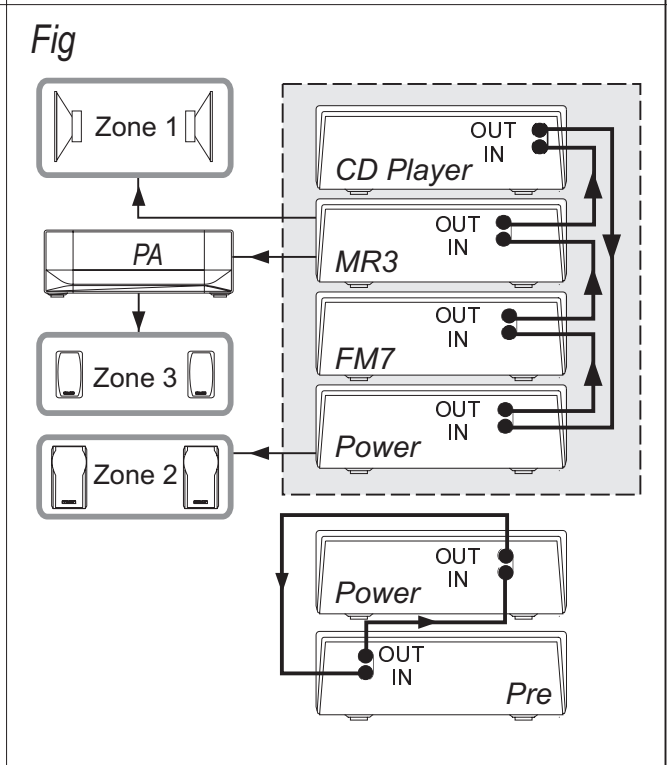
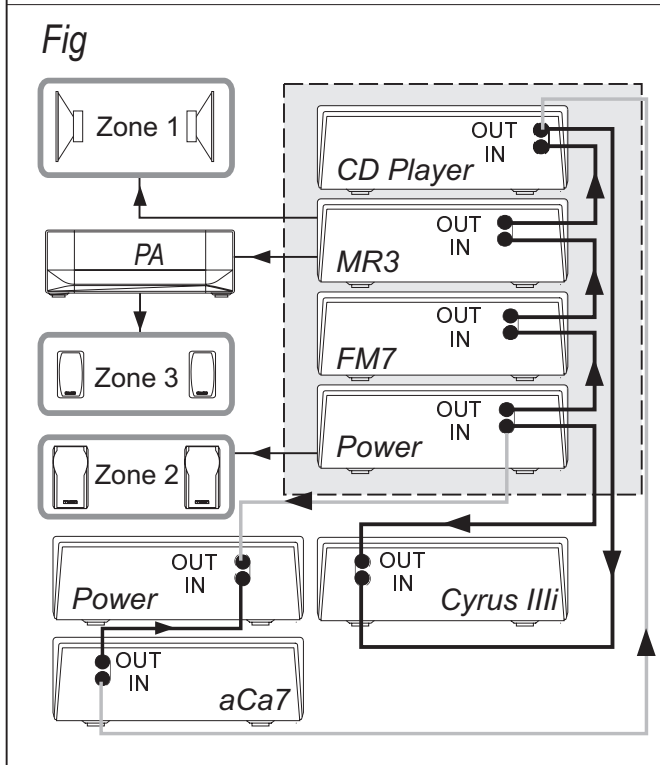
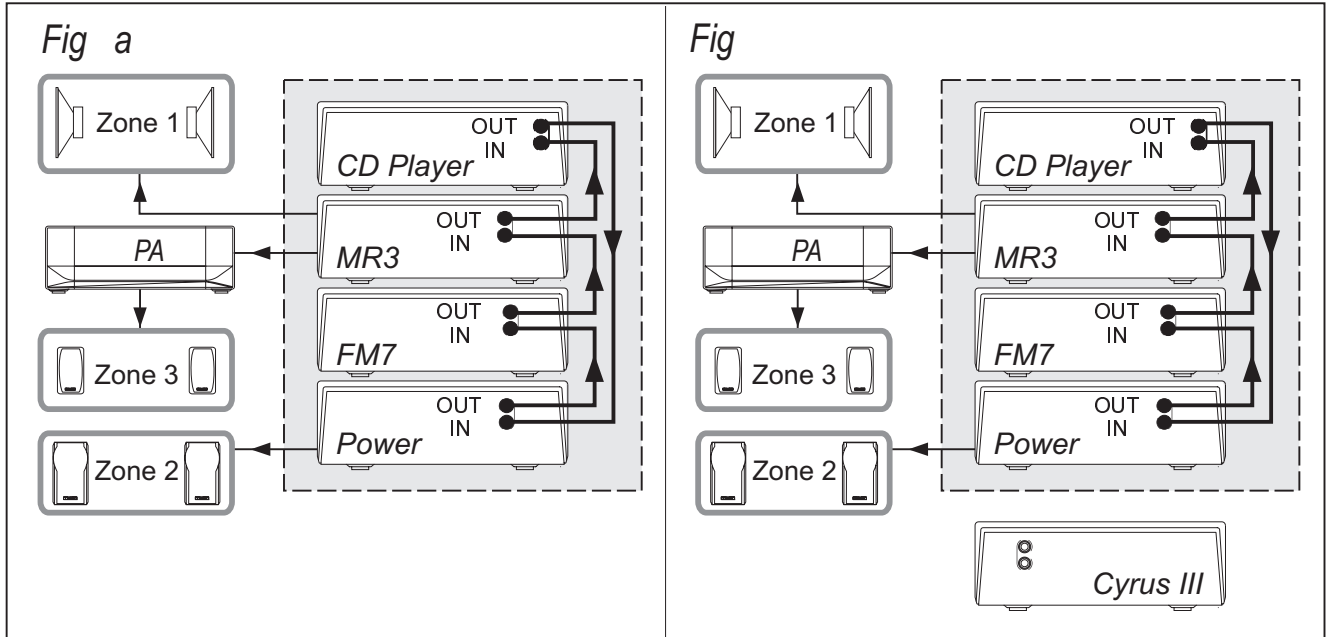


Fig 5

Cyrus MR3



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.

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.

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 Ⓜ on the rear of the unit.

The mains fuse Ⓜ is on the rear panel next to the power switch. It must only be replaced as follows:

U.K. / Europe 230V	T1A 20mm
N. America / Far East - 115V	T2A 20mm

The mains supply requirement for your *Cyrus MR3* 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.

NOTE FOR UK CUSTOMERS:

The *Cyrus MR3* 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.

Welcome to the world of Cyrus!

Congratulations on your choice of *Cyrus* Hi-fi 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 MR3* safely and correctly.

Preparations for Installation

Before installing the *Cyrus MR3* 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
- 4 Loudspeaker plugs
- 2 MC-Bus phono cables

After removing these items, please retain the packaging.

Install the *Cyrus MR3* in a well ventilated location away from sources of high temperature, dust or humidity. Never stand the *MR3* under another unit or on any surface likely to hamper its cooling or ventilation.

Choosing equipment to partner the MR3

All *Cyrus CD* players and the *FM7* tuner are suitable as sources for the *MR3*.

All *Cyrus* power amplifiers are suitable for *MR3* installations. In most cases the *XPA* will be the preferred choice due to its ability to switch on automatically when music is present.

The *MR3* will also fully integrate with an existing *Cyrus* system including *Cyrus III* or *Cyrus aCA7* amplification. For systems based around the *Cyrus III* or *Cyrus Pre* amplifiers, certain considerations must be made when wiring in MC-Bus control. See 'MC-Bus connections' section for more detail.

Installation (Refer to Fig.3)

Key to the rear panel drawing

1. Zone 1 LS Output (R.Ch)	8. Line Output - Zone 3
2. CD Input	9. MC-BUS Connection
3. Tuner Input	10. Zone 1 LS Output (L.Ch)
4. CD Output	11. Remote Control antenna
5. TU Output	12. IEC Mains Connector
6. Line Output - Zone 1	13. AC Power Fuse
7. Line Output - Zone 2	14. AC Power Switch

Positioning the Remote Antenna

Position the antenna ⑩ straight out behind the unit, or facing vertically upward or sideways. Keep the antenna (especially the tip) as far away from metal surfaces and cables as possible.

Do NOT wrap the antenna under the unit.

Do NOT shorten or extend the antenna cable.

When used in a *HARK* or other equipment rack, the *Cyrus MR3* should be placed on the top shelf to give maximum range.

Connecting inputs to the MR3 (Refer to Fig.1)

Using a suitable phono interconnect:

1. Connect a CD Player to the CD input ② on the rear panel
2. Connect a tuner to the TU input ③ on the rear panel

Connecting a CD player and Tuner through the MR3 to an Existing Cyrus system (Refer to Fig.2)

If the *MR3* is to be added to an existing system, the CD and tuner outputs must be connected from the *MR3* to the main system amplifier as follows-

1. Connect the CD input of the amplifier to the CD OUT socket ④.
2. Connect the Tuner input of the amplifier to the TU OUT socket ⑤.

This enables a single CD player and Tuner to be shared by the *MR3* and the main system.

Connecting speakers directly to Zone 1 outputs

The *MR3* includes an internal power amplifier for Zone 1. The Zone 1 speakers may therefore be connected directly to the *MR3* power amplifier if preferred as follows-

1. Connect the cables to the speakers and run them back to the rear panel of the *MR3*. Make sure that the left and right cables can be identified, also the wires from the red (+) speaker terminals. Most speaker cables will have a stripe or mark to show the (+) terminal.
2. Strip 10mm of insulation from the ends of the speaker cables.
3. Screw the cables securely into the speaker plugs. Make sure that the red plugs are connected to the wires from the red (+) speaker terminals.
4. Plug the cables into the Zone 1 speaker sockets ①,② of the *MR3*.

Connecting power amplifiers (Zones 1,2,3)

External power amplifiers are necessary for Zones 2 and 3 and optional to increase performance in Zone 1.

These power amplifiers are most easily located near to the main *MR3* unit with long speaker cable to the extension zones. If preferred, long interconnects can be run to remote power amplifiers which are located in the remote zone, then short speaker cables run locally to the speakers. For this type of installation, special long input interconnects are necessary and the installation should be made by a specialist dealer.

To connect the power amplifiers, proceed as follows-

1. Connect a stereo phono interconnect between each Zone output ④,⑤,⑥ and a power amplifier input.
2. Connect the cables to the speakers and run them back to the rear panel of the power amplifier. Make sure that the left and right cables can be identified, also the wires from the red (+) speaker terminals. Most speaker cables will have a stripe or mark to show the (+) terminal.
3. Connect the speaker cables to the speaker output terminals of the power amplifier, observing polarity and channel orientation.

MC-BUS CONNECTIONS (See Fig.6)

NOTE:- MC-Bus connections must be made to communicate remote commands from the *MR3* to the CD player and *FM7*.

An MC-Bus loop is established by connecting single phono cables from the MC-Bus output of each unit to the MC-Bus input of another in a chain. Complete the loop by returning the MC-Bus output of the final component to the MC-Bus input of the first.

Fig.6a shows an MC-BUS system loop of *MR3*, *Cyrus CD* player, *FM7* and a *Cyrus Power* (where used). The Standby control of the *MR3* will switch on or off all connected *Cyrus* units.

Fig.6b shows the MC-Bus connections extended to include the 'main system' *Cyrus* amplifier, *Cyrus III* or *Cyrus aCA7*.

Figs.6c/d show systems with *Cyrus III* or *Cyrus Pre* amplifiers. The MC-Bus connections of these amplifiers cannot be wired into the same MC-Bus loop as the *MR3* system.

Operating the MR3 from the front panel

Key to the front panel drawing (Refer to Fig.4)

- | | |
|------------------|-------------------|
| 1. Mute key | 6. Tuner select |
| 2. Standby key | 7. CD select |
| 3. Standby light | 8. Zone 3 select |
| 4. Lock | 9. Zone 2 select |
| 5. Level Control | 10. Zone 1 select |

Power Control (Refer to Fig.4)

The mains power switch ④ 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 ② is used for power control. The Standby light ③ shows green when the MR3 is operating and glows red when in standby mode.

When the MR3 is switched on from Standby, all Zones are set to MUTE (zero volume level). A red light at the extreme left of the LEVEL control ⑤ indicates MUTE. (See Fig.7b)

Selecting a Zone from the front panel

Press a Zone selector key ⑩ - ⑭.

The selected zone is now operational. A red light above the Zone key indicates that the Zone is under front panel control.

NOTE:- If a zone selector is pressed while the MR3 is set to Standby, the unit will switch on.

Muting and Unmuting a Zone

1. Press the MUTE key ① The Zone will mute.
2. Press the MUTE key again or adjust level..... The Zone will restore.

Selecting an Input

Press the CD key ⑦ to select the CD input

Press the TU key ④ to select the tuner input.

Level Control (Refer Fig.7a)

Use the LEVEL control ⑤ to set the volume in the selected Zone.

The Level control of the MR3 adjusts volume and balance. A light ring around the knob indicates the level. When the volume is at minimum the first indicator on the light ring will be RED. As the volume increases, a GREEN light moves clockwise around the ring.

Balance is adjusted using the remote handset. (See Page 4)

To set the maximum level in a Zone: (see Fig.8)

The maximum level in any Zone can be set from the front panel. This is useful where low powered speakers are in use or where high volume levels could cause nuisance.

1. Select a Zone and hold the Zone key down.

The level display changes to a continuous light ring. (Fig.8a)

2. Keep holding the zone key and adjust the volume to the required level.
3. Release the Zone key.

The display will now show a single light. This indicates the maximum allowable volume in the selected Zone. (Fig.8b)

When the volume in this Zone is adjusted the level control will function normally until the maximum preset level is reached. When this level is reached the light on the level control will flash .

Lock – Cyrus CD Players and FM7 Tuner Only

When using a multi room system, the same source is often playing in more than one Zone. To avoid possible difficulties, a Cyrus CD Player or FM7 can be functionally 'locked' from the front panel of the MR3.

When the system is locked the handset will not be able to change tracks on a Cyrus CD player or alter preset stations on the FM7. Other handset functions are unaffected.

1. Press the LOCK key ④

The lights above the CD and TU keys change from red to yellow.

Press LOCK to restore normal operation.

THE CYRUS X-PANDER RF HANDSET

Key to the X-pander drawing (Fig.5):

1. Balance key	6. Track / Preset Down
2. Indicator light	7. Mute / Standby key
3. Volume +(Up) key	8. Zone 1 select key
4. Volume -(Down) key	9. Zone 2 select key
5. Track / Preset Up key	10. Zone 3 select key

Setting up RF channels on the MR3

To avoid any interaction between neighbouring MR3 installations, the MR3 offers a choice of four RF channels for remote commands.

As delivered, the MR3 main unit is set to Channel Zero. This will not normally need alteration. At installation and when the batteries are replaced, the X-pander remote control must also be set to channel 0 to ensure communication between the two units..

Inserting the Batteries and setting RF channel 0 for the X-pander remote control

CAUTION:- Inserting the batteries in the X-pander handset forms part of the RF Channel setup procedure- avoid touching the handset buttons when inserting the batteries.

1. Remove the battery compartment cover.
2. Hold the handset by the edges and insert the supplied AAA batteries into the battery compartment. Observe polarity markings on the batteries and battery compartment.
3. Replace the cover.
4. Press the mute key.

Changing the MR3 RF Channel setting

1. Switch the MR3 off at the rear panel power switch.
2. Wait 30 seconds for the internal memory to discharge.
3. Hold down the key shown in the list to select a new RF channel and switch the power on.

Standby.....	Select channel 0
Zone 1.....	Select channel 1
Zone 2.....	Select channel 2
Zone 3.....	Select channel 3

4. The MR3 will run its set-up routine and the indicator above the key will flash three times before the MR3 enters Standby mode. The RF Channel is now reset.

Caution: If the RF Channel is changed at the MR3, the X-pander remote control must also be changed to the same channel number. Failure to do this will mean that the handset will not be able to communicate with the MR3 main unit.

Changing the X-pander RF Channel setting

1. Remove the battery compartment cover.
2. Remove the batteries and wait two minutes for the internal memory to discharge.
3. Hold the handset by the edges and insert the supplied AAA batteries into the battery compartment. Observe polarity markings on the batteries and battery compartment.
4. Replace the cover.

The first key pressed will now set the RF channel as follows-

Mute.....	Select channel 0
Zone 1.....	Select channel 1
Zone 2.....	Select channel 2
Zone 3.....	Select channel 3

The RF channel setting will now be stored by the remote control.

Handset Indications

The X-pander has two features to indicate normal functioning.

1. When a handset button is pressed, the Indicator light ② flashes to show that a command has been sent.
2. You will also hear a 'beep' from the speakers so that you know you are in the correct Zone.
3. When the MR3 receives a command from a remote Zone, the indicator on the front panel above the relevant Zone key will flash.

Selecting or Changing a Zone

Press once on the required Zone key ③, ④, ⑤

If you are in the correct Zone you will hear a short beep.

If the system is in STANDBY, this operation will also bring the MR3 installation out of Standby mode.

Changing the Source

Press and hold down the appropriate Zone key ③, ④, ⑤ for about three seconds. The source will change from CD to Tuner or vice versa.

You will hear a single beep followed by a double beep.

Volume Adjustment

Press the + key ⑥ to increase the volume level.

Press the - key ⑦ to reduce the volume level.

There is no beep with these operations.

Channel Balance Adjustment

1. Press the balance key ① once *Single Beep*
2. Press the + key ⑧ to shift the balance to the right.
Press the - key ⑨ to shift the balance to the left.
3. Press the balance key ① once *Single Beep*

The new balance setting is now stored.

NOTE:- The front panel display will change during balance setting (see Fig.9)

To reset the Channel Balance to 'central':

Press and hold the balance key ① down for a few seconds
A single beep is followed by a double beep

Muting a Zone

Press the Mute key ⑩..... *Single Beep*

The sound in your Zone is now muted.

To unmute a Zone:

Press the Mute key again or..... *Single Beep*

Press the + key ⑥..... *No Beep*

The volume will restore at its original level prior to muting.

Setting the System to Standby

Press and hold the MUTE key ⑩ down.

A single beep is followed by a double beep.

Remote Operation of Cyrus Source Components

When the MR3 is connected to Cyrus source units in an MC BUS loop, remote operation of those sources is possible (See Page 4).

Cyrus dAD3, dAD1, dAD7 and Discmaster

- Press the next key ⑪ to go to the next track..... *Single Beep*
- Press the previous key ⑫ for the previous track..... *Single Beep*

Pressing either key will start a dAD3 or dAD1 if it is not playing.

Cyrus FM7

- Press the next key ⑬ for the next station..... *Single Beep*
- Press the previous key ⑭ for the previous station..... *Single Beep*

Current FM7s are fully compatible. Earlier FM7s can be updated to use this feature. (See Page 5 for details).

Note: Pressing the next or previous keys in LOCK mode will produce no response, however you will hear a *low beep*.

TROUBLESHOOTING GUIDE

If your MR3 is not operating properly, disconnect the power and carefully check all connections using the notes in this handbook. If problems persist, the checklists below may help.

If you are in any doubt, consult your dealer.

Remote control not working (front panel control OK)	
Mismatch between RF channels of handset and MR3	Check RF channel setting
Handset batteries flat	Replace batteries
No Sound	
MR3 switched off or in Standby	Switch on
MR3 or handset set to incorrect Zone	Select the correct Zone
Incorrect Input Selected	Select correct input
System amplifiers are not powered	Switch on all system amplifiers
Source not playing	Operate source
No sound from one loudspeaker	
BAL control at extreme limit	Centralise Balance
Loudspeaker defective	Check loudspeaker, replace fuses
Faulty Loudspeaker connection	Check cables and connections
Volume of source changes without any command	
A second MR3 is in use nearby	Change RF channels
The volume will not go loud enough	
Set the maximum Zone level setting higher	
Handset not operational or partially operational	
Handset set to the incorrect Zone	Select the correct zone
Sound suddenly disappears	
The system has been set to Standby from another zone	
Mute has been selected from another zone	
Next/Previous keys not working	
The MR3 is set to LOCK mode	Switch off LOCK
FM7 preset selection will not function from remote control	
The FM7 may be an early production unit. An upgrade is available to add this feature, see 'software upgrades' below.	
Discmaster/dAD7 will not play start	
See 'software upgrades' below.	

Software upgrades for FM7, dAD7, Discmaster

Remote operation of Cyrus CD Players and Tuners is carried out via the handset operating through the MC-BUS loop.

Cyrus FM7 Tuner

Units with serial numbers higher than those in the series listed below are fully compatible.

UKHCU01231 EUROPEHCS01027
TAIWANHCT00108 CANADAHCC00127

Earlier FM7 units:

Software updates are available to add next/previous preset commands when used with the MR3.

Cyrus dAD7, Discmaster:

Software updates are available to add the 'autoplay' command which will initiate CD play when next/previous keys are selected from the X-pander.

Consult your Cyrus dealer for information and conversion costs for these upgrades.

Cyrus dAD1, dAD3 and dAD3Q CD players

Are fully compatible and support the 'autoplay' command.

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, MISSION 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 (120W)
Safety Requirements EN 60065
EMC compliance EN55013 & EN55020

Enclosure

Dimensions (WxHxD) 215 x 75 x 365mm
Weight 4.6Kg
Material Die cast chassis

Audio Performance

Inputs

Input Sensitivity (all line inputs) 200mV
Input Impedance 33kΩ

Line Outputs

Output voltage (all line outputs) 380mV
Output Impedance 100Ω
Channel separation (stereo) >70dB
S/N ratio, 500mV i/p (max.vol. A Wtd.) 100dB
THD+N, 500mV i/p (1kHz, -6dBFS) 0.004%

Zone 1 Power amplifier

Power output (1kHz//8Ω) 32W
THD+N 32W (20kHz//8Ω) <0.06%
Frequency response (-3dB) 8Hz, 70kHz

Cyrus reserves the right to change all specifications without notice. E & OE