

Cyrus Phono X
User Instructions

Cyrus Phono X

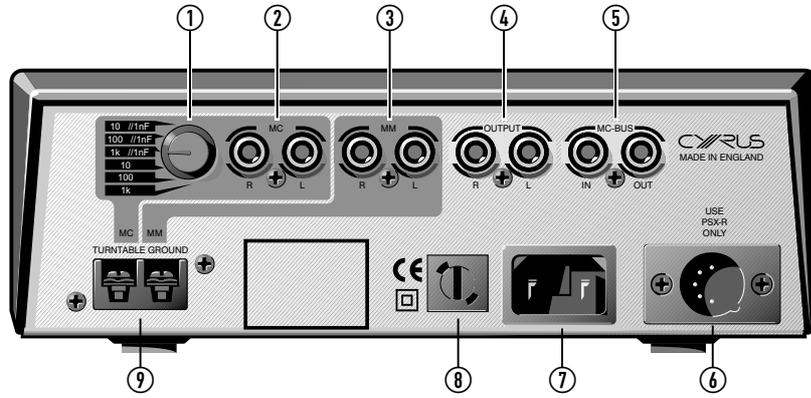


Fig 1

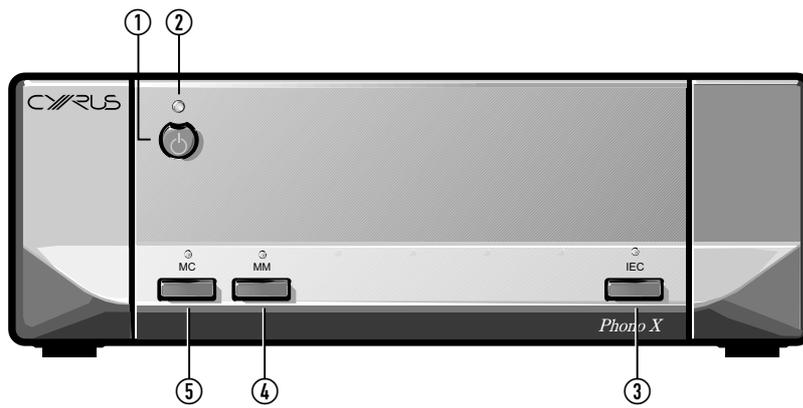


Fig 2

User instructions

Cyrus Phono X

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: (Refer to Fig.1)

The moulded IEC connector of the AC cord supplied plugs into the power inlet ① on the rear of the unit. The mains fuse ② is on the rear panel next to the power switch. It must only be replaced as follows:

U.K. / Europe 230V	T100mA/250V 20mm
N. America 115V	T200mA/250V 20mm

The mains supply requirement for your *Cyrus Phono X* 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 *Phono X* 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.

PRODUCT SERVICE CENTRES

For product service or technical advice, contact only authorised *Cyrus* service centres. The *Cyrus* distributors are listed at the end of this instruction manual.

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 *Phono X* safely and correctly.

Preparations for Installation

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

- Warranty Card (back cover of this instruction manual)
- Power Cable
- 2 x Phono leads for MC-BUS connection

After removing these items, please retain the packaging.

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

INSTALLATION (Refer to Fig 1):

Key to the rear panel drawing:

1. MC Loading Switch	6. PSX-R Connector
2. Moving Coil Input	7. Power Inlet
3. Moving Magnet Input	8. Mains Fuseholder
4. Pre-amplifier Output	9. Ground terminals
5. MC-bus Connections	

Connecting a Turntable

The *Phono X* accepts Moving Coil and Moving Magnet cartridge inputs.

If you have two turntables, one equipped with a MM and one with an MC cartridge, both can be connected at the same time.

Before connecting a turntable to the *Phono X*, check the specification of the cartridge which is fitted, then connect the turntable to the correct input of the *Phono X* by referring to the following paragraphs.

Moving Magnet Input:

The MM input ③ accepts:

- Regular moving magnet cartridges
- High output moving coil cartridges (where MM input is recommended by the cartridge manufacturer)
- Low output MC cartridges connected via step-up transformers

Moving Coil Input:

The MC Input ② accepts:

- Low-output moving coil cartridges.

Your *Phono X* is provided with a loading switch ① so that you can set the correct load impedance for your MC cartridge. Three settings are available, 10Ω, 100Ω and 1KΩ. Unless your cartridge instructions recommend a lower value, we suggest you use the 1KΩ setting.

Some MC cartridges are load sensitive and may also require a capacitance load to control high frequency response peaks. Each load setting is therefore available with or without a 1nF shunt capacitor. The shunt settings occupy the last three positions on the switch. Use capacitance loading only if your cartridge instructions specifically advise its use.

Shorting plugs

The *Phono X* is supplied with two shorting phono plugs. When using only one input, insert these plugs into the unused input.

Note: These plugs must be used *only* as described above.

Ground Connections

Most turntables include a separate grounding wire.

There are three grounding systems in common use:

1. The motor and tone arm grounds are connected to a common ground wire. Connect this wire to either the MM or MC ground terminal ④, depending on the cartridge used.
2. There are two ground wires, one from the motor and one from the tone arm. Connect both wires to the appropriate ground terminal on the *Phono X*.
3. There is no separate ground wire. Some units use the signal cable outer return for turntable and tone arm grounds. Though not best practice, the method is acceptable. No separate ground connection will be necessary.

Some cartridges link a negative signal pin to the metal shield. This link may make contact with the tone arm metalwork and cause a hum loop. If you think this is the case with your turntable, ask your dealer *before* you remove the link.

If you have an amplifier that requires a mains earth, do *not* use the MM or MC ground terminals of the *Phono X* for this purpose. Use an appropriate ground terminal on the ancillary equipment.

Output Connections

Connect the output sockets ⑤ of the *Phono X* to a line level (AUX) input on your pre-amplifier. When connecting the *Phono X* to a *Cyrus* amplifier, the AUX input labelled AU, AU1 or AUX/PH is recommended.

All signal connections should be via high quality audio interconnects. The convention for phono connections is Right Channel RED, Left Channel WHITE or BLACK.

External Regulated Power Supply - PSX-R

The PSX-R is a unique DC power supply which will upgrade the sonic performance of your *Phono X*. When a *Phono X* & PSX-R combination is installed, analogue and signal related sections of the *Phono X* are powered from this clean, stable power source while other requirements are supplied internally. This ensures complete isolation of control circuits and sensitive analogue sections reducing AC mains-borne noise and power supply ripple.

To connect the PSX-R to the *Phono X* plug the connector on the umbilical cord of the PSX-R into the Multi-Pole socket on the rear of the *Phono X* ⑥. You will need a mains supply for both units.

OPERATION (Refer to fig 2)

Key to the front panel drawing:

- | | |
|-------------------|----------------------|
| 1. Standby Switch | 4. MM Input selector |
| 2. Standby Light | 5. MC Input selector |
| 3. IEC Switch | |

Power Control

The mains power to the *Phono X* should normally be left on unless left unattended for a long period when the mains power at the wall socket should be switched off or the product disconnected from the AC supply. When power is applied, the Standby key ① is used for power control. The Standby light ② shows red when the *Phono X* is in Standby and green when operational.

Selecting an Input

Depress the MC ⑤ or MM key ④ to select the appropriate input. The red indicator above the selected input key will turn on.

Playback Equalisation

The *Phono X* offers the choice of traditional RIAA playback response or the newer IEC response. For most systems built from quality audio components, *Cyrus* recommends the original RIAA response. If your turntable is prone to feedback or rumble and/or your loudspeakers have extended bass response, switching to the IEC setting will help to reduce bass noise and distortion. The IEC response is also useful to reduce large cone excursions due to warps.

1. Press the IEC key ③ to select IEC response.

The red indicator above the key will turn on. When the IEC indicator is not lit, RIAA response is selected.

Mc-Bus System Connection (Optional)

This feature is usable if you own a *Cyrus* amplifier. By connecting the *Phono X* to the recommended AUX input of your amplifier and setting up MC-Bus connection for the system, the amplifier will switch on the *Phono X* whenever the AUX input is selected. Refer to the relevant amplifier handbook for MC-Bus wiring instructions.

If preferred, the MC-Bus response of the *Phono X* can be reconfigured to always switch on with the amplifier, regardless of which input is selected. This may be useful if the *Phono X* is connected to an input other than AUX. To change the MC-Bus response, follow this sequence:-

1. Set the *Phono X* to Standby.
2. Press the IEC key ③, and hold it down for two seconds, the indicator above the IEC key will flash.
3. Take the *Phono X* in and out of Standby to register this setting.

To restore normal operation:

1. Repeat Steps 1 & 2 above, the IEC indicator will flash twice.
2. Take the *Phono X* in and out of Standby to register this setting.

TROUBLESHOOTING GUIDE

If your *Phono X* 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.

No sound	
<i>Phono X</i> and/or system in Standby	Bring unit/system out of Standby
Incorrect input selected	Select correct input
System amplifiers are not powered	Switch on <i>all</i> system amplifiers
System volume is set to minimum	Adjust volume level
No sound from one loudspeaker	
BAL control at extreme limit	Centralise Balance
Does your speaker have fuses?	Check speaker, replace fuses
Poor/faulty cartridge, interconnects	Check connections, replace
Muffled Sound or Distortion	
MM cartridge connected to MC Input	Check, rectify
Stylus is worn, misaligned or dirty	Check, rectify, reset tracking force
Tone arm ground connection poor	Check, rectify
<i>If the problem persists</i> Interchange left and right channels at the <i>Phono X</i> input. If the missing channel switches, there is a problem with the cartridge or interconnect.	
Volume level is too low	
MC cartridge in MM input	Check, rectify
Hum or interference is present in the background	
Tone arm ground connection poor	Check, rectify
Interference, e.g. from appliances, computers, mains transformers	Reposition turntable and/or <i>Phono X</i> , have appliances suppressed

SPECIFICATIONS

Power Supply

Voltage:.....As plate on rear of unit
 Power consumption9W
 EMC & Safety Compliance (230V).....CE
 EMC & Safety Compliance (115V).....FCC, cCSAus

Enclosure

Dimensions (WxHxD).....215 x 75 x 365mm
 Weight.....3.1Kg
 MaterialDie cast chassis

Audio Performance

MC Input

Input Sensitivity (Nom.).....390µV
 Input Impedance (Switchable)1kΩ, 100Ω, 10Ω
 Output Headroom (ref. 500µV input, 1kHz).....28dB
 Channel Balance.....+/-0.2dB
 Crosstalk (20kHz, 500µV input).....-80dB
 S/N ratio, A-weighted (ref. 500µV input, I/P shorted)-84dBA
 THD (ref. 500µV input)0.01%

MM Input

Input Sensitivity (Nom.).....5mV
 Input Impedance47kΩ
 Overall Gain37.5dB
 Output Headroom (ref. 5mV input, 1kHz)27dB
 Channel Balance.....+/-0.1dB
 Crosstalk (20kHz, 5mV input)-90dB
 S/N ratio, A-weighted (ref. 5mV input, I/P shorted).....-92dBA
 THD (ref. 5mV input).....0.01%

Output

Output Voltage (Nom.).....370mV
 Frequency Response (RIAA/IEC curve, 20Hz – 20kHz)±0.2dB
 Output Impedance47Ω

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