

IMPORTANT CAUTIONS!**Read before installing this equipment!**

- Do not expose your loudspeakers to excessive cold, heat, humidity or sunlight - see Maintenance.
- Do not discard the original packaging. The original Cyrus packaging is an important element of your warranty.
- Do not connect your loudspeakers to the mains electricity supply.
- Ensure that your loudspeakers are correctly wired and are in phase - see 'Connecting your loudspeakers'.
- Do not mount your loudspeakers by the rear panel. Wall brackets *must* support the underside of the product.

When setting up the system or playing music it is always important to pay particular attention to the following points-

- Do not change any component in your system without first switching off your amplifier. Every time you change the connections from any signal source to your amplifier, ensure that you first switch off the amplifier.
- Do not use your amplifier at full power. This will 'clip' the amplifier and may damage your loudspeakers. Full power with many amplifiers can occur at around half volume setting.
- When switching on your system, do so with the volume control at minimum and turn the level up gradually.
- When changing discs, adjusting tuners, rewinding tapes, etc., turn the volume control down to its minimum.
- Filters, tone controls or graphic equalisers are not recommended for use in a system with *CLS70* speakers.
- Bolts for M5 sockets are inserted in the bottom panel of the *CLS70* cabinet to allow proper connection to the dedicated *Tripod* stand. Protective rubber feet are provided for bookshelf mounting. (3 feet for each cabinet for optimum stability, 2 at the front and 1 at the rear).
- Never use *CLS70*'s part supported on a shelf. All 3 feet must be supported.
- It is recommended that *CLS70*'s should be attached securely to stable loudspeaker stands. This will help performance as well as stability.

Product Service

Should your loudspeakers fail please return them as a pair, even if only one unit appears to be faulty. You must pack them using the original packing to be eligible for any warranty claim. Replacement packaging is available from the Cyrus service department.

Product for service should be returned in the first instance to the appointed dealer from whom you purchased the product. If you experience difficulties or there is no Cyrus dealer in your area, contact the Cyrus distributor for your country.

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 *CLS70* loudspeakers safely and correctly.

Unpacking Your Loudspeakers

CAUTION!- Take care not to touch the drive units when unpacking and setting up the *CLS70* speakers. The drive units may be permanently damaged!

Retain all the packing materials so that your loudspeaker can be repacked and shipped without damage.

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

Front Grilles

The front grilles of the *CLS70* provide protection from accidental damage to the sensitive drive units. If this protection is not required, the grilles may be removed. For maximum performance we recommend listening with the grilles removed.

To remove the grilles, grip the metal frame (not the side trims), and ease the grille away from the front of the speaker, starting from the top.

The grille can be re-fitted by lining up the four fixing pegs with the miniature sockets in the front of the speaker.

Fitting the *CLS70* to the Cyrus *Tripod* stands

1. You will need the kit of parts supplied with the stand and approximately 20Kg of kiln dried sand, this is commonly available from builders' merchants and DIY stores.
2. Fit the 3 tube legs to the "A" base using the countersunk bolts. You must ensure the bottom bolts are tight. Add the bright plated spikes to the "A" base and hand-tighten.
3. Stand the structure upright and pour kiln dried sand through the access holes (this will take some time)
4. Once you have filled the tubes to within 20mm of the top of the tube you should brush any remaining sand from the top bracket into the tube, making sure that the threaded hole is free of sand.
5. Fit the top plate to the 3 tubes using the remaining countersunk bolts. You will have to gently pull the legs slightly to align the screw holes, tube tops and the plate. Tighten the top bolts.
6. Move *Tripod* to roughly where you consider it will be used and sit the *CLS70* onto the upright stand. This will avoid carrying the now heavy stand once *CLS70* is fitted.
7. Screw the 4 x M5 bright bolts up through the top plate and spacers into the threaded bushes fitted into the bottom of the *CLS70*. The spacer and bolt pull the *CLS70* down onto the stand.
8. The stand assembly kit includes a thin polished bar, this fits a key in the polished base spikes and allows subtle levelling of the stand if the floor is uneven. Please be aware that if you completely unscrew the spike now, sand will flow out of the tube so do not unscrew more than the thread allows! This is approximately 5mm of movement. It is recommended that the spikes be screwed fully home for best possible performance.

9. The *CLS70* cabinet is now firmly supported on the floor. The spikes ensure the stand will not wobble on thick carpets and the tripod arrangement of the legs guarantee that *CLS70* and *Tripod* remain stable. Your installation is now complete and Cyrus hopes the detail we have put into this system enhances your enjoyment of music for many years.

Left and Right loudspeakers

CLS70 loudspeakers are supplied in symmetrical pairs. The speakers may be set up with the tweeters at the inside or at the outside of the cabinet when facing the listener. The best orientation will depend on the location of adjacent walls and furnishings and should be determined by the listener.

As a general guide the sound will have stronger focus and a slightly reduced soundstage with the tweeters positioned at the inside. With the tweeters positioned at the outside the soundstage will appear larger with a slight loss of focus.

Positioning your loudspeakers in a stereo system

The sound quality achieved by your *CLS70* speakers is greatly affected by the position of the speakers and listener in the room. The most important dimension is the distance between the speaker and the wall behind it (the back wall). When first setting up the *CLS70* speakers we make the following recommendations-

1. Where possible, locate the speakers at least 1m from the corners of the room.
2. Place the speakers 2-3m apart and 300mm from the back wall.
3. Set the speakers with no 'toe-in' (square to the wall).

From this initial setting, small position adjustments can later be made to tailor the sound to your requirements. Moving the speakers closer to the wall will adjust the sound balance to give more bass amplitude but with a smaller soundstage. Moving the speakers away from the wall will reduce bass amplitude but will increase the size of the soundstage. Setting the speakers with a toe-in towards the listener will reduce the depth of the image within the soundstage, but may focus individual elements of the image.

Positioning your loudspeakers in an A/V system

Our guidelines for setting up the *CLS70* speakers in a *AV* system are very similar to those for a stereo system. If the system has a centre channel dialogue speaker the front left and right speakers may be positioned further apart to give a larger listening field for more people. When first setting up the *CLS70* speakers in an *AV* system we make the following recommendations-

- Where possible, locate the speakers at least 1m from the corners of the room.
- Place the speakers 3-4m apart and 300mm from the back wall.
- Set the front channel speakers with no 'toe-in' (square to the wall).
- Start the setup with the front L & R speakers with no "toe-in" but follow step 3 as for stereo setup.
- Set the rear surround channel speakers with a 'toe-in', angled towards the listener.

From this initial setting, small position adjustments can later be made as listed for stereo systems in the previous section.

For a system with a subwoofer the surround sound decoder may be set for small speakers which will direct deep bass to the subwoofer and give the system extra headroom.

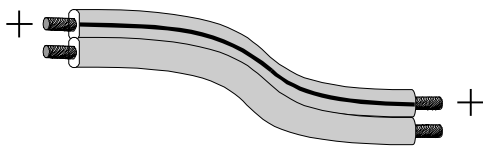
Connecting Your Loudspeakers

Choosing a speaker cable

There are many types of loudspeaker cable available which are suitable to partner the Cyrus CLS70. We make general recommendations to choose a cable which is simple in construction and which is made with high quality materials for the conductors and insulation. A good dealer should be able to advise a suitable cable and provide the correct terminations for the amplifier and speakers.

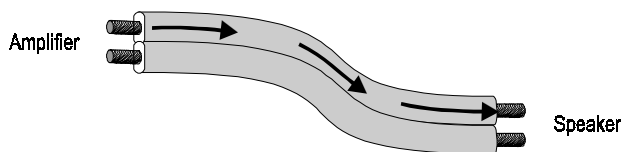
Phasing

Correct phasing is essential when connecting a speaker to an amplifier. All amplifiers and speakers are equipped with + (or red) and - (or black) terminals for connection of the speaker cables. For the speaker system to work correctly the + and - output terminals of the amplifier must connect to the corresponding + and - terminals of the speaker. All speaker cables have a polarity mark (plastic rib, coloured stripe or + markings) on one of the wires. This wire is the + wire and should be connected to the corresponding + terminals of both the amplifier and speaker.



Cable directionality

Most speaker cables are sensitive to the direction of signal flow. If so, the cable will be marked with arrows which should point in the direction of the signal (from amplifier to speaker).

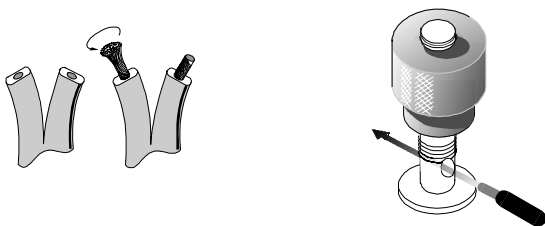


Connecting cables with tags to the CLS70

Unscrew the four terminal tops so that the tags can be tucked underneath. Tighten the terminal tops securely to retain the tags.

Connecting cables without tags to the CLS70

If the cables don't have connection tags fitted they must first be stripped as shown in the diagram below. The stripped ends can then be twisted together and fitted into the hole drilled in the terminal pin.

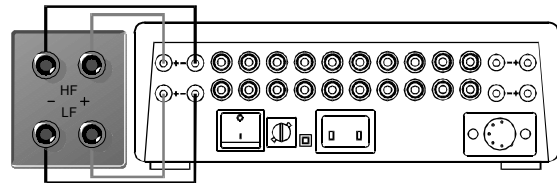


Bi-wiring and Bi-amping

Bi-wiring

The CLS70 speakers are designed to be used with bi-wired or bi-amped wiring arrangements. Two cables (or a bi-wired pair) are necessary to connect each speaker to the output terminals of your amplifier. Most Cyrus amplifiers feature twin speaker outlets for the most effective bi-wiring connection as shown in the schematic below.

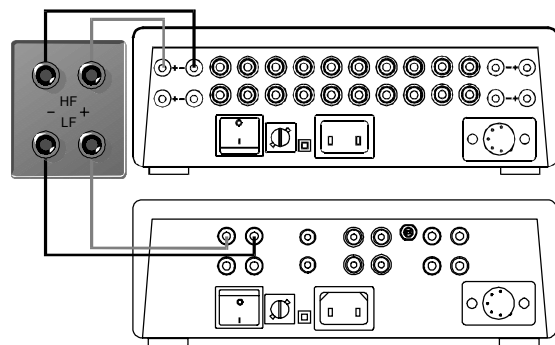
NOTE:- The bi-wire links must be removed from the terminal panel when the CLS70 is connected to a bi-wired system.



Bi-amping

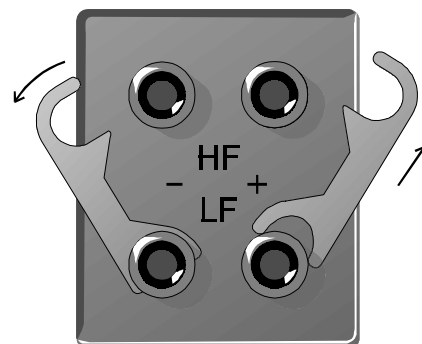
The benefits of bi-wiring can be further extended with the addition of separate amplification for the bass and tweeter units of your CLS70 (bi-amping). In this case the preamplifier output of the Integrated amplifier is connected to the input of a power amplifier and separate connections are made from the speaker outputs of each amplifier to the speaker drive units. Bi-amped wiring of a Cyrus amplifier is simple and is shown in the schematic.

NOTE:- The bi-wire links must be removed from the terminal panel when the CLS70 is connected to a bi-amped system.



Removing the bi-wire links

If the CLS70 is to be used in a bi-wired or bi-amped system it is essential to remove the bi-wire links from the terminal panel. To remove the links unscrew all four terminals. The links can then be removed from the terminal panel as shown in the diagram below. The four connection wires can then be fitted to the terminals.



Maintenance

Use a slightly dampened cloth to clean your *CLS70* cabinets and grilles. Do not use solvents of any kind as they may damage the fine finishes.

Periodically check the fixings on the bass drive clamps are tight to keep them secure. Over-tightening will not improve performance. Do not touch high frequency drive unit fixings.

CAUTION: High levels of magnetism will attract steel tools directly to the sensitive tweeter dome. The tweeter dome is not covered against distortion caused by accidental intrusion.

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.

It is essential that you 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

Recommended amplifier power	40W-150W
Impedance	8Ω
Sensitivity	85dB/W
Frequency response	40Hz-20kHz
LF response (-3dB)	50Hz
Bass drive unit	6.5" (165mm) diameter air dried composite paper cone. Basket is aluminium die cast with die-cast clamp brace. Machined aluminium phase plug.
Treble drive unit	1" (25mm) coated exposed silk dome, precision aligned in Cyrus alloy lens. Dual magnets with ferrofluid cooling for the voice coil.
Cabinet design	Reflex design with dual gas-flow reflex port.
Cabinet volume	15 litres
Material	Cyrus <i>CLD</i> laminar construction with real wood veneer
Dimensions (WxHxD).....	220x330x300mm
Weight (per speaker).....	11.3Kg
Packed weight.....	25Kg