

Crimson

INSTRUCTION MANUAL

CS610C

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Congratulations on the purchase of your Crimson CS610C pre-amplifier.

This unit has been hand built for your enjoyment and is constructed to the highest standards and specifications. This manual contains installation and operating instructions to enable you, the user, to obtain the best possible performance from your Crimson.

CONTENTS

Precautions	2
Installation	4
Connections	6
Operation.....	12
Performance tips	16
Troubleshooting	17
Specifications.....	20

PRECAUTIONS

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

PRECAUTIONS

CS610C

Before proceeding with installation of the CS610C, ensure that the following items are included in the accessory boxes:

- Instruction manual.
- Crimson power supply (PS 610C).
- DNM reson interconnect cable.*
- Guarantee card.

After removing these items please retain the packaging for future use.

*Included when purchasing a Crimson Pre and Power amplifier combination.

SUPPLY VOLTAGE

The Crimson CS610C is factory set to operate from a fixed mains supply voltage of 230V. Before connection check that this voltage is the same as your mains supply.

230V Products

Range 220V-240V

115V Products

Range 110V-120V

LOCATION

You should install your CS610C in a well ventilated location. Avoid positioning the CS610C or its external power supply near hot appliances or radiators. Placing the CS610C on heat generating sources will affect the pre-amplifier's performance, and could also cause damage to the casework. Installation in a damp or humid environment may result in malfunction or damage. Should the unit or its external power supply become immersed in liquid, **do not reconnect to the mains supply**. Under these circumstances the items should be returned immediately to your nearest Crimson dealer for inspection.

RELOCATION

The Crimson CS610C is supplied preset to run on 230V mains. Should you relocate to an environment where mains voltage is different, then

consult your Crimson distributor to arrange the supply of an external plug top power supply, with the correct input voltage rating for your location.

INSTALLATION PRECAUTIONS

The CS610C is supplied with an external AC plug top power supply. The connecting cable is 1m long and is terminated with a 3 pin DIN plug. The power supply cable should be carefully routed to avoid running over or near sharp objects and should not be grouped together with interconnect or speaker cables.

UNIT POSITION

The Crimson CS610C may be positioned as a free standing unit or alongside a partnering Crimson power amplifier. Never stand the unit directly on top of a power amplifier, which may generate heat, as performance and long term reliability could be compromised.

CONNECTING POWER TO THE UNIT

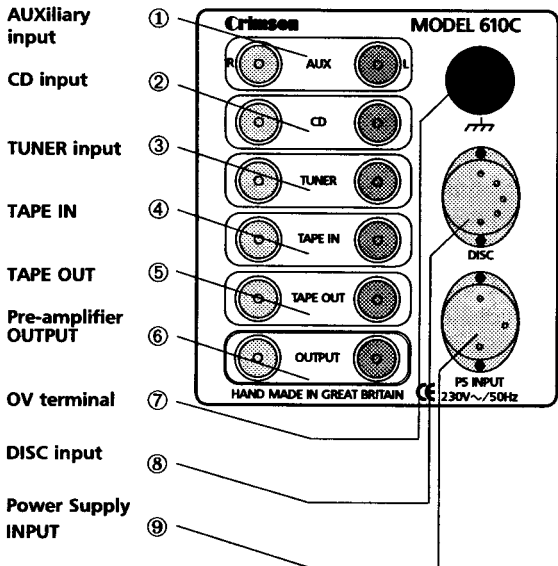
The 3 pin DIN connector of the external plug top power supply should be plugged into the power inlet on the rear of the unit ⑨ (see fig.1). The PS610C is a sealed unit which contains no user serviceable parts. In the event of suspected power failure, both CS610C and PS610C should be returned to your dealer.

WARNING!

Under no circumstances should the PS610C be plugged into the DISC input ⑧ (see fig.1). The DISC input has a 5 pin DIN socket which is fitted with a plastic cap. With the cap removed the socket will accept the 3 pin DIN plug from the PS610C. Accidentally plugging the power supply into the DISC input could result in severe damage to the moving coil and moving magnet stages. In the event of this happening, both units should be returned to your dealer.

Back view of CS610C

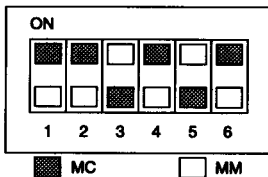
Fig.1



CONNECTING SIGNAL SOURCES**Connecting a Turntable**

Prior to connecting your turntable, you should determine whether you have an MC or MM cartridge. The CS610C comes factory set for MC operation. If your cartridge is an MM type, you will need to reset the internal dip switches on the MC/MM circuit board. Take the CS610C, turn it upside down and place on a soft cloth to avoid damaging the casework. Undo both 2.5mm allen fixing screws. Now slide the sleeve off the CS610C chassis going from front to back. Note the pre-amplifier serial number sticker is on the underside of the sleeve at the rear of the unit. This will help identify the correct direction when refitting the sleeve. Now turn the pre-amplifier the correct way up. The MC/MM circuit board is at the rear of the unit. On the lower left corner of the board

marked MC3 you will see a bank of 6 dip switches (see fig.2). You will require a small screwdriver to make the necessary adjustments in accordance with the diagram below. Reassemble the CS610C and prepare to connect your signal sources.

MC/MM settings for CS610C

The DISC input of the CS610C is fitted with a 5 pin DIN socket ⑧ (see fig.1). You will need to contact your dealer to obtain a phono to DIN adaptor plug, part code ACD (see page 16 for more information). Alternatively, you can rewire your turntable phono cable with a 5 pin

DIN plug, part code DSK. Note the wiring pattern for the DISC DIN input below:

Pin 1 - Earthed to OV terminal ⑦*

Pin 2 - Signal ground (L+R channel)*

Pin 3 - Signal left

Pin 5 - Signal right

*The CS610C DISC stage is wired to accept DNM style split ground wiring. In this case pin 4 becomes signal ground for the right channel and pin 2 is a dedicated left channel ground. You are now ready to connect your turntable with a correctly wired DIN plug or phono to DIN adaptor to the DISC input ⑧. If the turntable has a separate ground wire fitted, connect this to the OV terminal ⑦ on the rear panel of the CS610C (see fig.1).

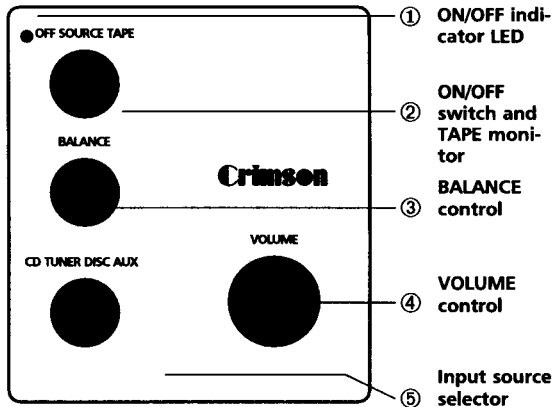
Connecting line sources

To use your CD player, connect a phono cable

interconnect from the CD outputs to the RCA inputs of the CS610C ② (see fig.1). Ensure you observe the correct colour coding for left and right channel. Additional system components should be connected in the same way, again taking care to note the correct channel colour coding. The CS610C allows connection of the following line sources, a TUNER ③, a TAPE deck ④ and has an AUX input ① for a VCR, DVD or second CD player (see fig.1). Tape recordings from disc and other line sources can be made to tape by connecting an RCA phono cable from the TAPE OUT ⑤ of the CS610C to the input or record sockets of your tape deck. Finally, you should make the connection to the power amplifier. Connect a phono inter-connect from the pre-amp OUTPUT sockets ⑥ to the signal input sockets of your power amplifier. Be sure to follow the colour coding of the plugs. Your CS610C is now ready for use.

Front view of CS610C

Fig.3

**OPERATION**

To switch the CS610C on, turn the ON/OFF switch ② clockwise until you feel a small click. The ON/OFF LED ① will illuminate indicating the CS610C is powered up. You will note that the

CS610C has a silent power up. The line stage is muted at switch on and gently fades up to normal level in 5 seconds. At power down the mute circuit immediately engages. This feature prevents unnecessary clicks or thumps coming through to the loudspeakers.

Like any new product, the CS610C requires a 'running in' period. Allow at least 36 hours playing time for the components to bed in and achieve their optimum performance.

When operating the CS610C from cold, you should allow at least 30 minutes for the pre-amplifier to reach normal operating temperature.

Selecting an input for listening

With the ON/OFF switch ② in the SOURCE position, you can switch between four input sources using the input selector ⑤. DISC, CD, TUNER and TAPE inputs are selected by rotating

the selector knob ⑤ to the desired position.

Tape recording and playback

If the tape recorder connections are made according to the previous instructions in this manual, then you should be able to listen to a recording by selecting TAPE with the ON/OFF/TAPE switch ②. Should your tape deck have a three-head facility, then you can use the tape position on switch ② to monitor the recording quality directly from the third head, whilst recording. To record from a source select the relevant input with the selector switch ⑤ (fig.3) and follow the recording instructions in your tape deck manual.

Using TAPE OUT as an additional input

It is also possible to utilise the TAPE OUT facility as an extra line input, if a record facility is

not required. To use this feature, connect your additional line source to the TAPE OUT sockets ⑤ (see fig.1) then select the TAPE position with switch ② (see fig.3).

Volume control

The VOLUME control ④ defines the output level of the CS610C. The level increases in a linear fashion from minimum gain (fully anti-clockwise) to maximum gain (fully clockwise).

Caution - Ensure the volume level is set to a reasonable level prior to source activation.

Balance control

This control ③ gives a **fine** stereo balance adjustment, by increasing or decreasing the gain of each channel. **NB.** You cannot switch one channel off completely with this control.

- Crimson recommends the use of DNM reson interconnect cables.
- The CS610C is fitted with a 5 pin DIN phono input socket. This is a locking bayonet type socket, but it will accept conventional 5 pin DIN plugs. Crimson recommends two types of adaptor to convert to RCA input. The part codes are as follows: (ACD) which is a one piece moulded 5 pin DIN to RCA adaptor and (ACDK) which is a high quality version of the (ACD) using **DNM** screened cable and plugs.
- For optimum performance, Crimson recommends using a reson domo furniture equipment support. Ask your Crimson dealer for more information.
- Use reson licon contact enhancer to treat all the connections in your system.

No sound from either speaker

- Check that pre-amp is turned on. Green LED ON/OFF indicator will be illuminated.
- Check power amplifier is switched on.
- Check appropriate programme source is selected and working. For example, the CD player is playing.
- Check TAPE monitor position of switch ② (see fig.3) is not selected by mistake.
- Check the VOLUME control is not set to absolute zero.
- Check installation is correct according to the installation guide in this booklet.
- Check the continuity of both input and speaker connections to the power amplifier and the connections to the loudspeakers.

No sound from one speaker

- If your loudspeakers are fitted with protection fuses, check that the fuse is intact.
- Check the interconnect cable integrity on the rear panel of the CS610C and at the source. Try another interconnect.
- Check the interconnect cable integrity between the CS610C and the power amplifier.
- Check the speaker cable connection integrity of the missing channel at the power amplifier and loudspeaker.
- Change the programme source using the suspected interconnect cable and check whether the problem still exists. If the fault is removed by doing this, then the original source is at fault.

- Interchange the left and right connection of the interconnect cable at **source**. If the missing channel switches over then there is a problem in one channel of the source or in the interconnect cable.

Phono input - troubleshooting

- Low volume level on both channels when using phono input. This could be caused by connecting an MC cartridge into the CS610C when set for MM. Configure to MC (Page 8).
- Excessive volume/poor sound quality for both channels using phono input. This could be caused by connecting an MM cartridge into the CS610C when set for MC. Configure to MM (Page 8).
- Background hum or buzz when using phono input. Check phono ground wire is attached to 0V terminal ⑦ at rear panel (see fig.1).

PERFORMANCE & DIMENSIONS

Nominal output level	775mV
Tape out level disc selected	150mV
Tape out level line selected	Equal to line input
Output resistance	700 Ω
Maximum output level	>3.5V r.m.s
Sensitivity (All line inputs)	250mV
Frequency response (All line inputs) ..	1.5Hz to 400kHz @ -3dB
Sensitivity (MM)	5.5mV @ 1kHz into 50k Ω
Sensitivity (MC)	0.25mV @ 1kHz into 330R
RIAA	20Hz to 20kHz @ 1dB
Slew rate	>10V/ μ s
Signal to noise ratio	MM 70dB MC 65dB
Distortion	<0.01%
Power supply	20V AC 50/60Hz
Power consumption	1W
Dimensions (W x H x D)	95mm x 116mm x 376mm
Weight	2.3kg
P/S dimensions (W x H x D)	52mm x 80mm x 49mm
P/S weight	0.22kg

**Crimson Products Ltd. reserves the right to change specifications without prior notice. E&OE.
All Crimson Products are CE compliant.**

