



**CD 60**  
**CD PLAYER**

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# INTRODUCTION

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Congratulations on selecting a Creek CD player for your music system. It is a high performance product designed to realise the full potential of your hi-fi system and all types of music programme.

The Creek **CD 60** has been designed using carefully selected components in a unique circuit configuration. Particular attention has been paid to power supply design and rigid, anti-vibration construction. The **CD 60** is capable of the finest sound quality and, used wisely, will give many years of trouble-free, listening enjoyment. Before using your CD player please read this owner's guide to ensure that you gain maximum benefit from your ownership of this fine product.

This booklet provides basic installation procedures for your CD player, answers the questions most frequently asked by Creek users, and offers a trouble shooting guide in case of difficulty. We hope you will find it includes the information you require but, should you have any further questions, please contact your supplying dealer who will assist you.

## Important

Each Creek **CD 60** is manufactured and tested to the highest standards to ensure both absolute consistency of performance and complete reliability. This ensures that your CD player will achieve precisely the same level of performance as our own laboratory reference units.

Please enter the model and serial number on the registration card then complete and return it to Creek Audio Systems. We strongly suggest that you store the complete packaging set for possible future use.

Carefully unpack your **CD 60**. Do not throw the box and packing away — in the unlikely event you may need to return your **CD 60** for service, the specially designed packaging will help prevent damage in transit.

The **CD 60** is supplied with a 2-metre length of mains cable. This has an IEC moulded socket at one end. At the other end there is either a moulded mains plug, of the appropriate type for the country of use, or for the UK, bare wires for the fitting, by the supplying dealer, of the correct plug. If the plug fitted to the end of your mains lead is not correct, contact your dealer for advice.

**The CD 60 is internally set to operate on the local mains supply. Before connecting, check that this setting, specified on the rear panel, is appropriate for your supply.**

An anti-surge fuse is fitted internally. It is not normal for this fuse to blow. This will normally indicate a failure of the equipment, requiring a return to your supplying dealer, Creek, or the main importer for service. However, this fuse may blow in certain mains over-voltage situations. A replacement fuse is supplied for replacement by suitably qualified personnel.

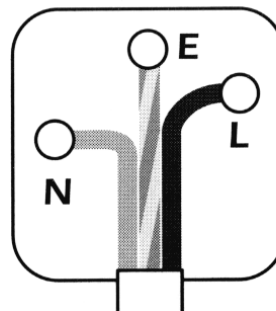
### Remote control handset

The remote control handset uses two AAA 1.5 volt batteries. Long life, non-leak batteries are recommended as replacements. Suitable batteries are supplied—slide open the battery compartment cover and insert the batteries following the polarity markings inside. If the remote control is to be left unused for some period remove the batteries to prevent leakage.

### NOTE FOR THE UK:

As the colours of the wires in the mains lead of this amplifier may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol or coloured green or green-and-yellow.



### WARNING THIS APPLIANCE MUST BE EARTHED

The wires in the mains lead are coloured in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

If a 13 amp (BS1363) plug is used a 3 amp fuse must be fitted, or if any other type of plug is used a 5 amp fuse must be fitted either in the plug or adaptor or at the distribution board.

Remove the transit screws on the base of the player. These should be stored for later use in the threaded holes in the back panel. If the player is to be moved or transported it is essential to replace both transit screws. This will lock the disc tray and laser transport mechanism.

Connect the mains lead socket to the mains input connector. Check the power is on at the wall socket and press the power key on the front panel. The display will light up. If only a single green LED shows check that the display key (disp) is in the out position.

## Positioning

The **CD 60** can be used free standing or racked with other equipment. It should never be used close to any source of heat or strong, persistent light. Nor should it be used where it would block necessary ventilation of another product—over the heat sinks or ventilator slots of a power amplifier for instance.

The sound quality of the **CD 60** can be enhanced by appropriate positioning. The player should sound best when resting on small blobs of Blu-Tack™ (or any similar malleable semi-permanent adhesive) on a rigid shelf or similar surface.

The **CD 60** has three phono (RCA) sockets on the rear panel. The outputs, shown in the diagram on the inside back cover, are detailed as follows:

## Audio Output

Left and right channel stereo outputs. Make certain that the left output on the **CD 60** is connected to the left CD input on your amplifier, and similarly the right output to right input. If there is no CD input a spare Auxiliary (Aux) or tuner input will work equally well. Under no circumstance should the signal from the **CD 60** be connected to a phono sensitivity input either mc or mm or damage could result to the amplifier.

## Digital Output

Single output for connection to other digital audio equipment. This socket carries the raw digital data and can be used to feed a stand-alone digital-to-analogue convertor or a 'digital' amplifier with built-in convertor. A single length of high quality phono cable should be used. Do not connect this output to the conventional analogue inputs of any other piece of hi-fi equipment (cassette recorder or amplifier).

## Cables

A quality 1m stereo pair of cables is supplied with the **CD 60**. Higher quality, and often higher priced, cables are available to enhance the sound of your CD system.

The **CD 60** is capable of exceptional fidelity. The quality of connecting cables can influence sound quality for both good and ill. Cable quality is determined by a complex interaction of materials choice and characteristics, design and construction. Your dealer will advise. You may wish to audition a choice of suitable cables before purchasing.

As a precaution against damage to your loudspeakers make sure that the volume control on the amplifier is turned to a low setting. You can now switch on the amplifier, and select the CD input.

The **CD 60** has been designed to be easy to use. Simple controls are available from the front panel. Additional functions can be accessed through keys on the remote control.

We advise at this point that you make yourself familiar with the major player controls.

## 1. Disc tray

Opens to accept a Compact Disc with label uppermost for playing. The Creek **CD 60** is designed to play both standard 12 cm CD Digital Audio Discs and 8 cm CD Digital Audio Singles (with or without adaptors). Pushing the open disc tray gently will operate the closing mechanism and load the disc. You can use the button marked Open a second time to close the tray.

## 2. Main display

This should illuminate when the player is switched on. However if only a single green LED shows (4) then switch the display on with the button marked 'disp' (13). The main display shows the track number using the two large digits on the left. Playing time is shown in minutes and seconds by the four digits on the right. Between the two sets of figures is a triangle symbol. This shows when the player is in Play mode. If this symbol is flashing the player is paused. The bottom row of numbers illuminates for the appropriate number of tracks on the loaded disc. If the disc has more than twenty tracks the +20 indicator will also light. The disc size indicator shows the size of disc loaded—8 cm CD single or 12 cm standard CD

Digital Audio Disc (also CD single with adaptor). The status of the digital output is shown in the centre of the display.

## 3. IR remote sensor

This receives commands from the remote control handset.

## 4. Green Power LED

This will always show green when the CD player is powered. Unlike the display it cannot be switched off.

## 5. Open

This opens and closes the disc tray for loading.

## 6. Play

Plays a disc from the first track. If a programme has been chosen it plays the disc from the first track in the programme. If Play is pressed again while a track is playing the track will be replayed from the start.

## 7. Pause

Suspends play at the point when the button is pressed. Output is muted and the Play indicator in the main display flashes. Press once more to resume play from this point. Pressing the Play button will return to the start of the track and keep the player in Pause mode.

## 8. Stop

Stops play. Any programme will remain in memory until the Stop button is pressed a second time for subsequent programming or until the disc tray is opened.

## 9. Previous track

In Play mode: selects and automatically plays the previous

track. If the disc is not playing can be used to step down from the highest track number, track by track, for programming.

### **10. Programme**

Stores the track number in a programme sequence. Up to and including 20 tracks can be stored for replay in any order.

### **11. Next track**

In Play mode: selects and automatically plays the next track. If the disc is not playing can be used to step up from track one, track by track, for programming.

### **12. Absolute phase**

Switches the Absolute phase of the signals at the output sockets.

### **13. Display**

Switches the display on and off.

### **14. Digital output switch**

Switches the digital output on and off. Status is shown in the centre of the main display.

### **15. Power**

Switches the player on and off. The power LED (4) is top right of the display window and is always on when power is applied and the player switched on.

### **The remote control**

#### **Open/Close**

This opens and closes the disc tray for loading.

### **Numeric keypad**

Used for Direct Play function. Press the number of the track you wish to hear. Can be used along with the player program-

ming button (10) to create programmes.

### **Stop**

Stops play.

### **Pause**

Suspends play at the point when the key is pressed.

### **Play**

Plays a disc from the first track. If a programme has been chosen it plays the disc from the first track in the programme.

### **Previous Track/Next Track**

In Play mode: selects and automatically plays the previous/next track. If the disc is not playing can be used to step up from lowest or down from the highest track number, track by track, for programming.

### **Random**

Plays an entire disc or programme in random order.

### **Search Forward/Search Back**

Replays the disc at a higher speed forwards or back with sound to aid searching. Some jumping or jittering of the sound can be expected in this mode and is entirely normal.

### **A-B**

Marks start and end point of an A-B passage for repeat

### **Repeat**

Repeats track, disc, programme or A-B section.

### **Scan**

Plays the first 10 seconds of each track.

## Playing a disc

Turn on the **CD 60** and press the Open button. Insert a Compact Disc, centralising the disc on the tray. The display will show the disc total time. Press the Play button on the front panel or the Play key on the remote control. The display will show the track playing time.

## Playing a specific track

If replay from a specific track number is required press that number on the remote control keypad and play will automatically start. Alternatively step to the required track number with the Next Track buttons on the player or keys on the remote control and then press Play.

## Searching within a track

If you want to find a passage that does not have a specific associated track number use the Forward and Back Search keys on the remote control listening for the required section. Play resumes automatically as you release either Search key.

## Interrupting play

Press the Pause button on the player or the Pause key on the remote control. The Play symbol will now flash on the display. Press the Pause key or button to resume play. Pressing the Play button will put the player into pause mode at the start of the selected track.

## Scanning for a track

Press the Scan key on the remote control. The first ten seconds of each track will be played in order. When you hear the track you desire, press either the Play key on the remote or the Play button on the player.

## Programming

Select the required track with either the remote keypad or the Previous/Next buttons on the player. To 'write' the selected track into the programme memory press the programme key marked prog. This button has to be pressed while the Track indicator in the display is flashing; when this indicator shows constantly play has already begun. Up to 20 tracks can be stored in memory for programmed play. With the required tracks selected press either the Play key on the remote control or Play button on the player to begin replay of the programme.

When the player has played the selection the programme remains in memory until the Stop button is pressed a second time or the disc tray is opened. The programme can be added to after replay by selecting additional tracks and entering them with the programme button.

## Repeat Play

Pressing the repeat key on the remote control will cause the complete disc or programme to be repeated. The Repeat indicator shows in the display. Pressing the key a second time will cause the track currently playing to be repeated. The Repeat indicator will now flash.

To repeat a section of music between two arbitrary points use the A-B repeat key on the remote control. Press the A-B key once to mark the start of the section to be repeated. Press the A-B key a second time to mark the end of the section. The player will continuously repeat the marked section until paused or stopped. Pressing the Play button with the A-B indicator still showing will start play of the track in which the beginning of the section is marked. Replay will continue

to the end of the marked section and repeat play will then recommence from the start of the marked A-B section.

## **Absolute Phase**

Loudspeaker phase can be considered as being relative phase ie. in or out of phase. Absolute phase in contrast refers to the leading 'edge' of a musical waveform being positive going or negative going. In hi-fi system terms this relates to positive or negative pressure waves from the loudspeakers on transients. The overall phase of digital recordings may differ. You may like to experiment with this control, as some listeners are sensitive to absolute phase.

## **Digital Out Off**

The unterminated socket of any digital output is a source of radio frequency energy and a potential weak spot for interference from other RF sources (CB radios, taxis etc). Switching off the digital driver circuitry generally gives a sound quality improvement. It is advised therefore that unless an off-board digital convertor is in use the digital output is left switched off.

When an off-board convertor or digital amplifier or digital signal processor is connected this switch can be used to mute the system.

## **Display Off**

In CD players, despite attentive design, the changing AC voltage used to drive the display is always a potential source of noise. Creek Audio Systems has decided therefore to give owners of the **CD 60** the option of extinguishing the display during replay for improved sound quality.

The Creek **CD 60** requires little looking after. The case can be cleaned with a slightly moistened cloth.

Do not use solvents or abrasive cleaners as this could scratch the display and disc tray covers.

Do not let water or any other liquid into the inside of the case.

Keep the disc tray dust free. Do not use spray polishes or liquid cleaners here.

The player tray mechanism is self lubricating and does not require oiling or greasing.

Do not push the disc tray closed or pull it open when the player is not powered as this can harm the control electronics.

Do not dismantle the casework, there are no user serviceable components inside.

The CD player should not be exposed to excessive cold, heat, sunlight, humidity or water.



It is unlikely that your **CD 60** player will malfunction or need servicing, but in the event that you feel there is something wrong, you should try to identify the problem immediately. If, after carefully investigating the fault and examining the complete hi-fi system for other possible causes, the problem persists, do not attempt to dismantle or repair your CD player. Contact your dealer, distributor or Creek Audio Systems, preferably by telephone in the first instance.

## SYMPTOM

## POSSIBLE CAUSE AND CURE

POWER indicator does not light

Mains socket not live

Mains plug wired incorrectly

Mains fuse failed

Display does not light

If power indicator is lit then switch the display on with the button marked 'disp'

Disc tray does not open

Transit screws still in place

Disc tray will not close properly

Disc incorrectly inserted.  
Re-centralise disc and try again

Display shows six bars and not track or time display

Disc misloaded or loaded upside down

Faulty, dirty or damaged disc

Disc plays but there is no sound

Check connections to amplifier

Check the position of the Tape Monitor switch on amplifier

Check correct input is selected

Sound is poor, distorted or skipping

Transit screws not properly removed

Disc incorrectly inserted.  
Re-centralise disc and try again

Faulty, dirty or damaged disc

CD player has been connected to phono input on amplifier

Poor signal lead connections

No sound from one channel

Poor signal lead connections

Balance control on amplifier at one extreme

No sound from player when connected through an external convertor

Digital output switched off

Check connections from digital output to convertor electrical digital input

Check connections to amplifier

Check correct input is selected

Programming does not work

All programme memories have been filled

Remote control does not work

Batteries not fitted, fitted incorrectly or expired

Remote sensor on right side of display has been obscured

# WARRANTY

This equipment has been produced and tested with care and precision. It is built to give first class service.

If within two years from the date of purchase the equipment proves to be defective for any reason other than accident, misuse, neglect, unauthorised modification or fair wear and tear, we will repair any such defect or, at our option, replace it without charge for labour, parts or return carriage.

This warranty, which is applicable in the United Kingdom only, is given in addition to the customer's statutory rights, does not attempt to exclude any of those rights and is transferable to subsequent owners who acquire the equipment within the warranty period. The warranty period will, however, expire completely two years from the date of the original purchase.

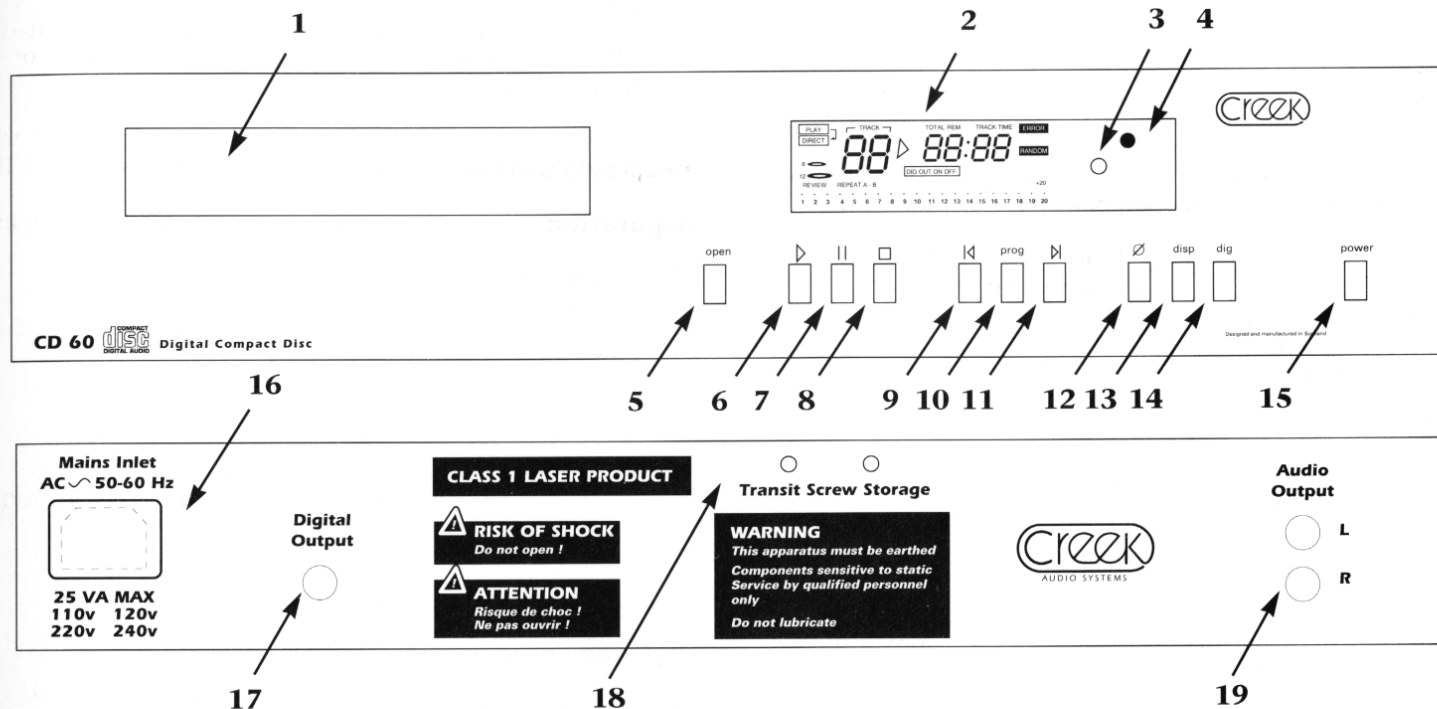
All service and product enquiries arising in countries other than the United Kingdom should be addressed to the local Creek importers, agents or distributors who, at their own discretion, may extend warranty protection to the countries they serve.

If there is no Creek representative in your country, service enquiries should be forwarded to the address shown on the back cover.

Please complete and return the enclosed registration document. Completing and returning the warranty registration card does not limit your legal rights.

# SPECIFICATIONS

<b>System</b>	16-bit x4 oversampling, selected dual DAC with GIC 3rd order filter			
<b>Frequency response</b>	2 Hz – 20 kHz $\pm 0.1$ dB			
<b>Channel matching</b>	<b>16 Hz</b>	<b>1 kHz</b>	<b>16 kHz</b>	<b>20 kHz</b>
	0.06 dB	0.06 dB	0.06 dB	0.06 dB
<b>Separation</b>	-111 dB	-101.5 dB	-78 dB	-75 dB
<b>THD vs level at 0dB</b>	-78.6 dB	-80.6 dB	-79.7 dB	-79.6 dB
<b>Resolution at -80dB</b>	-0.78 dB			
<b>Dynamic range</b>	>96 dB			
<b>Wow and flutter</b>	unmeasurable			
<b>SNR (A weighted )</b>				
without emphasis	-112 dB			
with emphasis	-114 dB			
<b>Deemphasis accuracy</b>	$\pm 0.06$ dB			
<b>Output impedance</b>	180 ohm			
<b>Peak output level</b>	2.24 Vrms			
<b>Size</b>				
(HxWxD)	90 x 420 x 290 mm			
<b>Weight</b>	5.75kg			



- |                       |                      |                           |                           |
|-----------------------|----------------------|---------------------------|---------------------------|
| 1. Disc tray          | 6. Play              | 11. Next track            | 16. IEC mains connector   |
| 2. Display (see text) | 7. Pause             | 12. Absolute phase        | 17. Digital output        |
| 3. IR remote sensor   | 8. Stop              | 13. Display On/Off        | 18. Transit screw storage |
| 4. Power indicator    | 9. Previous track    | 14. Digital Output On/Off | 19. L/R Audio outputs     |
| 5. Open/Close         | 10. Programme memory | 15. Power On/Off          |                           |