



Caspian
CD Player

MANUAL



INTRODUCTION

Congratulations on your purchase of the ROKSAN Caspian Balanced CD Player. This CD Player is designed and manufactured to the highest specification and rigorously tested to offer you many years of trouble-free pleasure.

Your Caspian Balanced CD Player is at the heart of your hi-fi system. Its correct installation, set-up and operation will have a profound influence on the sonic performance of the entire hi-fi installation.

Please read the contents of this manual thoroughly. It will help you to understand your hi-fi equipment better and enhance your listening pleasure.

This manual is divided into the following sections:



UNPACKING

Included in the packing of M2 Balanced CD Player you will find:

- One mains lead fitted with the correct mains power plug for your country
- One Roksan CR7 system remote handset and CR2032 battery
- One information pack and warranty card

After removing these items please retain all packing materials. Correct packing is necessary for transportation of your Caspian Balanced CD Player.

MAINTENANCE

After disconnecting the CD player from the mains supply, the cabinet and front panel may be cleaned with a dry lint-free cloth. Avoid using abrasive substances or solvents.



AC MAINS SUPPLY

Your Caspian CD Player is set to operate from a fixed supply voltage which is marked on a label next to the mains input plug. Before connecting the mains lead please check that your mains supply corresponds to this label as below:

230V Products	Voltage Range : 220V - 240V
115V Products	Voltage Range: 100V - 120V
100V Products	Voltage Range: 90V - 110V

The mains lead supplied with this product has an IEC mains socket which plugs into the IEC connector on the unit's rear panel. The other end is normally attached to the appropriate mains plug for your country. In the UK this is the standard UK13A plug.

This plug should ordinarily not be removed from the lead. If you do remove it, please dispose of it safely so that it cannot be plugged into a mains socket whilst in a potentially dangerous condition. We suggest that you obtain from your dealer a complete replacement lead.

Should you move to another area where either the mains voltage or the mains plugs are different from those as supplied with your CD player, please contact the appointed ROKSAN distributor for assistance.

Please observe correct mains polarity at all times.

The CD player mains fuses are located on the rear panel next to the IEC mains connector. These must only be replaced by the fuse type and rating as described on the fuse rating label on the rear panel of the unit.

If the equipment is likely to be unused for some time, unplug it from the mains supply.

This appliance must be earthed. Please ensure that other equipment connected to it is earthed according to the manufacturer's instructions.

LOCATION

Your Caspian CD player should be located in a well ventilated area and kept away from sources of heat, dust, humidity and direct sunlight.

The CD player may be positioned either as a free standing unit or alongside another audio/video product. Never place the CD player on carpet or any surface likely to hinder normal ventilation. Never allow liquids or other objects to fall into the unit.

This unit contains no user serviceable parts. Do not remove any panels or attempt to service it yourself. Unauthorised servicing will void the warranty.



CASPIAN CD PLAYER - FRONT PANEL VIEW



CASPIAN CD PLAYER - REAR PANEL VIEW



- | | |
|-----------------------------|---|
| 1. Open / Close button | 10. Analogue output
(L & R; Phono:RCA; Balanced:XLR) |
| 2. Stop button | 11. Digital output
(Optical:Toslink; Balanced:AES/EBU;
Coaxial:RCA) |
| 3. Play / Pause Indicator | 12. Voltage & Fuse label |
| 4. Disc tray mechanism door | 13. AC Mains fuse holder |
| 5. FL Display | 14. IEC Mains inlet socket |
| 6. Track back button | 15. Chassis ground terminal |
| 7. Track forward button | |
| 8. Display time button | |
| 9. AC Mains switch | |

ROKSAN AUDIO



CONNECTING MAINS POWER

Please refer to front & rear panel views. The moulded IEC connector of the supplied mains lead should be plugged into the socket (15) on the rear of the unit first and then plugged into the mains supply. The Mains power switch (9) is on the left front underside of the CD player. This switch can be left on; if however the CD player is likely to be unattended for a long period, switch it off and unplug the mains lead from the wall.

SIGNAL CONNECTIONS

Analogue output:

The Analogue Output (10) uses Gold plated RCA Phono sockets or Gold plated balanced XLR sockets and should be connected to the CD or LINE input of your Preamplifier or Amplifier. The connection is: Right Channel - Red; Left Channel - White or Black.

Digital output:

The Digital Output (12) uses a Gold plated RCA Phono socket for Coaxial SPDIF and Toslink for Optical and XLR for Balanced AES/EBU output. Any of these could be connected to a corresponding input of an amplifier with a digital input, or to an outboard Digital to Analogue converter (DAC).

IMPORTANT NOTE: For optimum performance it is recommended to use high quality inter-connect cables such as ROKSAN HDC-02A high definition analogue cable.



SWITCHING ON

The Mains power switch (9) is on the left front underside of the CD player. This switch can be left on; if however the CD player is likely to be unattended for a long period, switch it off and unplug the mains lead from the wall.

When switch on, your Caspian CD player FL display will illuminate.

USING THE CONTROLS

Loading a disc:

Press the Open/Close Button (1) once to open the disc loading tray (Display will indicate: open). Carefully load a disc into the tray recess with the label side up. Press the button again to close the tray.

Note: Never load a disc until the drawer has opened fully, or try to close the drawer until you are sure that the disc is properly seated in the holder recess.

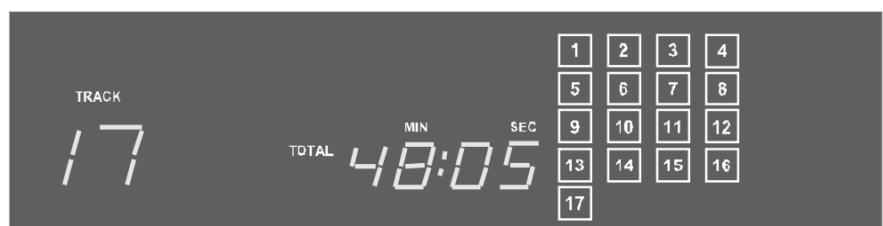
Warped discs should never be played.

The drawer should only be opened using the front panel control. Under no circumstances should you attempt to open manually.

If a disc is not inserted or if the disc is damaged or inserted upside down, the CD player will remain inoperative (Display will indicate: no disc).

Playing a disc :

When a disc has been loaded, your M2 CD Player will briefly spin the disc while it studies the data encoded on it. The disc will then stop and the display will indicate the number of tracks on the disc and the total play time.



To commence playing a disc, press Play/Pause Button (3) once. The disc will play from the beginning.

Press the Play/Pause button (3) a second time to pause the disc whilst it is playing. Pressing the button again will resume playback from the point at which Pause mode was entered. In Pause mode, the disc continues spinning and the laser will still be operational but locked. Please keep the CD player in Pause mode no longer than strictly necessary.



Press the Track Forward Button (7) to go to the next track on the disc. Pressing the Track Back Button (6) will take you to the previous track.

***** When the disc is playing, press the Track Back Button once to take you to the beginning of the current track and immediately a second time to take you to the start of the previous track.

In Play mode press the Track Forward Button (7) to take you forward to the start of the next track.

Once the procedure is complete the disc will commence playing from the selected track.

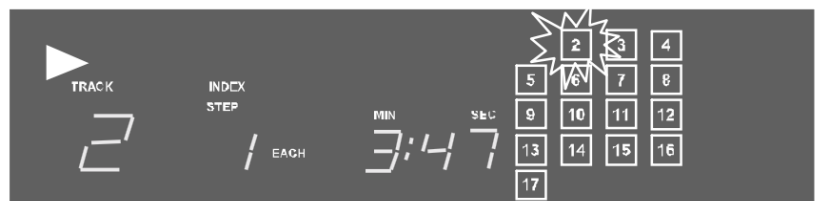
When a disc is first loaded, you can use these buttons to select your desired track. Having done so, press the Play/Pause Button and your disc will commence playing from the selected track.

You may select a track when Pause is engaged. In this case, the disc will revert to Pause after the procedure is complete and you will have to press Play/Pause Button to continue playing the disc.

Pressing the time button (8) on the front panel repeatedly will cycle the display through the following modes :

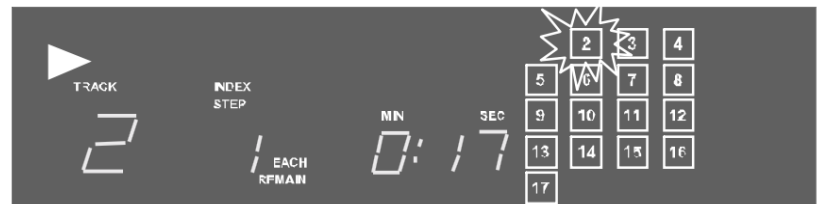
Normal

Display indicates track number and how long it has been playing.



First press

Display indicates track No. and remaining time on the track.



Second press

Display indicates number of tracks and remaining time on the disc.





REMOTE HANDSET

The Caspian CD player is supplied with Roksan's CR7 remote control handset.

Carefully remove the battery compartment cover which is secured with a small screw and insert the battery in place observing polarity. Replace the cover and screw. The handset is now ready for use.

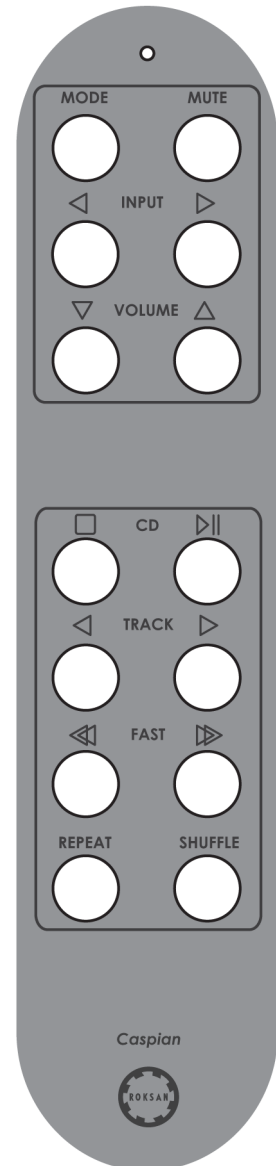
The handset duplicates the front panel controls of the CD player.

The bottom section of the remote control provides control over the track playing, stop/pause of the CD player.

In addition, the remote control allows repeat functions on the CD player. To repeat all tracks on the disc press Repeat Button. The display will show 'REPEAT (ALL)'.
To repeat one track press Repeat Button twice. The display will show 'REPEAT (ONE)'.

To repeat one track press Repeat Button twice. The display will show 'REPEAT (ONE)'.

When the player is in stop mode, pressing the Shuffle button will put the player into shuffle mode where it will play all tracks in a random order.



WARNING

Do not ingest the battery, Chemical Burn Hazard.

This remote control contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.



TROUBLESHOOTING

If you suspect that your ROKSAN Caspian CD player is not operating properly, you should check all the connections carefully. Phono plugs should be fully inserted- a frequent cause of problems is that Phono plug surrounds do not make proper contact. Below are some commonly encountered problems with suggestions for possible cure. The list is not exhaustive: If you have any unresolved problems, please consult your appointed ROKSAN dealer or distributor.

SYMPTOM	LIKELY CAUSE	SUGGESTED REMEDY
<ul style="list-style-type: none">The disc tray will not close when a disc is inserted	<ul style="list-style-type: none">Disc not placed properly in trayDisc is warped	<ul style="list-style-type: none">Re-place disc properlyDiscard disc
<ul style="list-style-type: none">Disc inserts, display does not show the number of tracks and playing time	<ul style="list-style-type: none">Disc inserted upside downDisc is dirty or scratchedCondensation on the laser lensDirt on the laser lens	<ul style="list-style-type: none">Re-insert discClean disc, discard scratched discLet CD player warm up and dry out lensRefer to appointed dealer or service centreDO NOT use CD lens cleaners
<ul style="list-style-type: none">Skipping & mistracking	<ul style="list-style-type: none">Excessive vibrationDisc is dirty or scratched	<ul style="list-style-type: none">Ensure player is stable and vibration-freeClean disc, discard scratched disc
<ul style="list-style-type: none">Excessive hum	<ul style="list-style-type: none">Connection loose, cable faulty	<ul style="list-style-type: none">Re-connect plugs, change interconnect
<ul style="list-style-type: none">One channel inoperative	<ul style="list-style-type: none">Interconnect or amplifier faulty	<ul style="list-style-type: none">Change lead, try another line input on amp
<ul style="list-style-type: none">Remote handset operation erratic or not working	<ul style="list-style-type: none">Batteries weak or wrongly insertedHandset signal path is obstructedHandset transmission angle too wideRoom lighting/sunlight excessive	<ul style="list-style-type: none">Replace battery, observe polarityRemove obstruction, move handsetOperate handset in front of CD PlayerDarken room



GUARANTEE

There are no user-serviceable parts inside your Caspian M2 CD player. If a fault should develop, refer any servicing to your appointed ROKSAN dealer, distributor or ROKSAN approved service agent.

Your ROKSAN Caspian CD player is guaranteed against any defect in materials and workmanship for a period of five years from the date of purchase.

This guarantee only becomes effective if the warranty card is validated by the ROKSAN retailer from whom the equipment was purchased and returned to ROKSAN within 28 days of purchase.

This guarantee excludes:

1. Damage caused due to accident, misuse, neglect and incorrect installation, adjustment or repair.
2. Liability for damage or loss during transit from the retailer or purchaser to ROKSAN or its authorised distributor for the purposes of repair or inspection.

Carriage costs to ROKSAN shall be borne by the consignor.

All claims under this guarantee must be made through an authorised ROKSAN retailer.

If equipment returned for repair to ROKSAN is found on inspection to comply with the product specification ROKSAN reserves the right to make a charge for examination and return carriage.

Unauthorised servicing will void this guarantee.



SPECIFICATIONS

Operating system	CD digital audio system (CD, CD-R, CD-RW)
Frequency response	20Hz - 20kHz \pm 0.2dB
Harmonic distortion	< 0.0015% @ 0dB, 1kHz (Typically 0.0005%) < 0.005% @ -30dB, 1kHz < 0.01% @ 0dB, 20kHz
Intermodulation distortion	< 0.001% @ 0dB (Typically 0.0005%)
S/N ratio (IHF-A Wtd.)	105 dB
Wow & flutter	Quartz precision
Channel separation	>100 dB @ 1kHz >100 dB @ 20kHz
Analogue voltage	1.95Vrms
Analogue outputs	L&R, RCA Gold plated L&R Balanced XLR Gold plated
Digital outputs	75 Ohm Coaxial, RCA Gold plated 110 Ohm Balanced AES/EBU XLR Gold plated Optical, Toslink
D/A Conversion	PCM1798 Advance Segment, Audio-Stereo DAC
Resolution/sampling	24 bits / 192 kHz
Oscillation	3rd Overtone Oscillation
Crystal	Super precision, custom made
Mechanical isolation	Main chassis de-coupling feet, custom made Laser mechanism 2 stage de-coupling
Jitter	<130 psec (Typically <70 psec)
Idle pattern	<-105 dB
Stop band rejection	<-95 dB
Power supply	x2 high performance low noise toroidal transformers 12 fully regulated power rails
Power source	100V - 120V 50Hz / 60Hz 220V - 240V 50Hz / 60Hz
Maximum power consumption	< 30 W
Dimensions	432x330x70(WxDxH)mm 432 x 330 x 80 (including feet)
Weight	10Kg



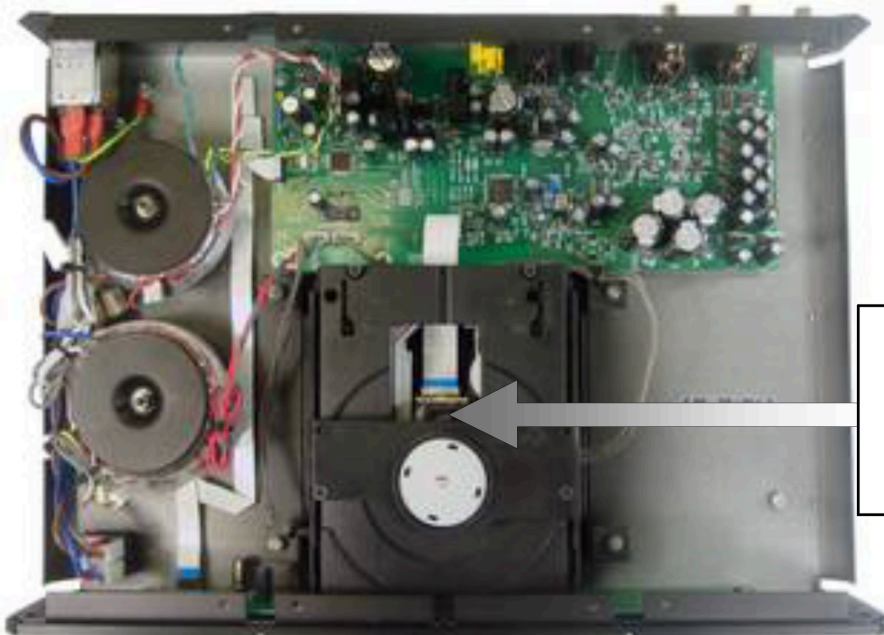
LASER SAFETY

This unit employs a laser. Only qualified persons should remove the cover or attempt to service this unit due to the risk of eye injury.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT



CAUTION INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VORSICHT! UNSICHTBARE LASERTRÄHLUNG TRITTT AUS. WENN DECKEL GEOFFNET UND WENN SICHERHEITSVERRIEGELLUNG ÜBERBRÜCKT IST.
VARNING OSYNUG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÄLEN ÄR FARLIG.
ADVARSEL USYNUG LASERSTRÄLING VED ÄBNING, NÄR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGA UDSÆTELSE FOR STRÄLING.
VARO! AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALLTTINA NÄKYMÄTTÖMÄLLE LASERSÄTEIL YLLE. ÄLÄ KATSO SÄTEESEEN.



Laser Diode Properties

Materials: Ga-Al-As
Wavelength: 755-815 nm (25°C)
Laser Output: Continuous Wave max.0.7mW



Caspian CD Player
Manual



ROKSAN AUDIO

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