

ROKSAN

Caspian M2 Balanced CD Player User Manual



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INTRODUCTION

M2 Balanced CD Player

Congratulations on your purchase of the ROKSAN M2 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 M2 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:

- Safety Instructions (Accompanying card)
- Safety Certification
- Introduction
- Cautions
- Installation
- Setup
- Operation
- Troubleshooting
- Guarantee
- Notes
- Specifications

ROKSAN WARRANTY REGISTRATION

VISIT

<http://www.roksan.co.uk/rw.php>

In Case Of Difficulty
Call: +44(0)20 8900 6801

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 learning system remote handset (RMX-111) and USB lead
- One RMX111 User Manual

After removing these items please retain all packing materials. Correct packing is necessary for transportation of your M2 Balanced CD Player.

MAINTENANCE

After disconnecting the CD Player from the mains supply, the cabinet and front panel may be cleaned with a lightly dampened soft cloth or chamois leather. Avoid using abrasives or solvents.

EU DIRECTIVES

This product is designed to comply with the legal provisions of EU Directives 89/3336/EC and 72/23/EC. The standards which have been applied are those which were in force at the time of the introduction of this product.

This product bears the CE mark.



This product is compliant to EN 60065.

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

AC MAINS SUPPLY

Your M2 Balanced 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 ProductsVoltage Range: 220V – 240V
- 115V ProductsVoltage Range: 100V – 120V
- 100V ProductsVoltage 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 UK10A 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.

GENERAL CAUTIONS

FCC WARNING

This equipment may generate or use Radio Frequency energy. The user may lose the right to operate this equipment if unauthorised modifications are made.

INTERFERENCE

Properly installed, this unit should not cause harmful interference to radio communications, There is, however, no guarantee that such interference will not occur in a specific installation. If interference arises (which you can determine by switching the unit off and on) you could try to remedy this problem by the following:

- Re-orient or re-locate the receiving antenna
- Increase the distance between the CD Player and receiver
- Connect the unit to a different mains circuit from that of the receiver
- Consult your ROKSAN appointed dealer or an experienced Radio/TV technician for help and advice

LOCATION

Your M2 Balanced 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.**

Roksan M2 Balanced CD Player - Front Panel View



Roksan M2 Balanced CD Player - Rear Panel View



- | | |
|-----------------------------|---|
| 1. Open / Close Button | 9. AC Mains Switch |
| 2. Stop Button | 10. Analogue Output (Left & Right;Phono: RCA; Balanced: XLR) |
| 3. Play / Pause Button | 11. Digital Outputs (Optical:Toslink;Balanced:AES/EBU;Coaxal:RCA) |
| 4. Disc Tray Mechanism Door | 12. Voltage & Fuse Label |
| 5. FL Display | 13. AC Mains Fuse Holder |
| 6. Track Back Button | 14. IEC Mains Inlet Socket |
| 7. Track Forward Button | 15. Chassis Ground Terminal |
| 8. Display Time Button | |

SETUP

M2 Balanced CD Player

CONNECTING MAINS POWER

Please refer to front & rear panel view on Page 2. The moulded IEC connector of the supplied mains lead should be plugged into the socket (14) 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 (11) 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-03A High Definition Analogue Cable and HDC-01D High Definition Coaxial Digital Cable.

OPERATION

M2 Balanced CD Player

Please refer to the rear panel view on page 2.

SWITCHING ON

The Mains power switch (9) is on the **left front underside** of the CD Player. This switch should be left ON for normal operation. If unattended for a long period, the Mains power should be switched OFF and the lead disconnected from the power supply.

When switched ON, your M2 CD Player FL Display will illuminate.

USING THE CONTROLS

Please refer to the rear panel view on page 2.

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.

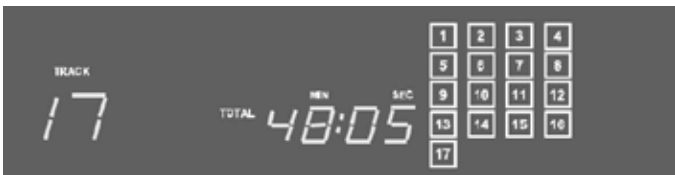
Warped discs should never be played.

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.

SELECTING A TRACK

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.

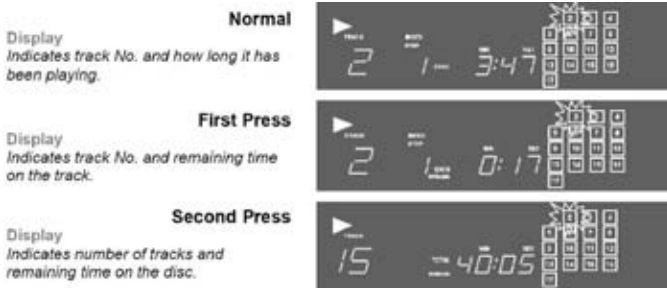
Once the procedure is complete the disc will commence playing from the selected track.

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.

DISPLAY

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



REMOTE CONTROL

M2 Balanced CD Player

Please Refer to RMX-111 User Manual

TROUBLESHOOTING

M2 Balanced CD Player

If you suspect your ROKSAN M2 CD Player is not operating properly, first check all the connections carefully. Pay particular attention to input and output connections. RCA 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.

<u>SYMPTOM</u>	<u>LIKELY CAUSE</u>	<u>SUGGESTED REMEDY</u>
The disc tray will not close when a disc is inserted	Disc not placed properly in tray Disc is warped	Re-place disc properly Discard disc
Disc inserts, display does not show the number of tracks and playing time	Disc inserted upside down Disc is dirty or scratched Condensation on the laser lens Dirt on the laser lens	Re-insert disc Clean disc, discard scratched disc Let CD player warm up and dry out lens Refer to appointed dealer or service centre DO NOT use CD lens cleaners
Skipping & mistracking	Excessive vibration Disc is dirty or scratched	Ensure player is stable and vibration-free Clean disc, discard scratched disc
Programme play inoperative	Programming accidentally erased	Re-programme memory
Excessive hum	Connection loose, cable faulty	Re-connect plugs, change interconnect
One channel inoperative	Interconnect or amplifier faulty	Change lead, try another line input on amp
Remote handset operation erratic or not working	Batteries weak or wrongly inserted Handset signal path is obstructed Handset transmission angle too wide Room lighting/sunlight excessive	Replace batteries, observe polarity Remove obstruction, move handset Operate handset in front of CD Player Darken room

GUARANTEE

M2 Balanced CD Player

Your ROKSAN Product 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 once your product has been registered within fourteen days of purchase. Roksan reserves the right to ask for a copy of your purchase invoice.

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 warranty 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.

Warranty will only be valid when the product is bought through the authorized retailer. All the warranty issues will be dealt through the selling retailer.

Warranty registration can be done online at: <http://www.roksan.co.uk/rw.php>

Operating System	CD digital audio system (CD, CD-R, CD-RW)
Frequency Response	20Hz – 20kHz ± 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
Output 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 <i>Gold plated</i> Optical , Toslink
D/A Conversion	PCM1798 Advace 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	Two high performance low noise toroidal transformers 12 fully regulated power rails
Power Source (Not Switchable)	100V – 120V 50Hz / 60Hz 220V – 240V 50Hz / 60Hz
Power Consumption	< 20 W
Dimension	432 x 330 x 70 (W x D x H) mm 432 x 330 x 80 (including feet)
Weight	10Kg

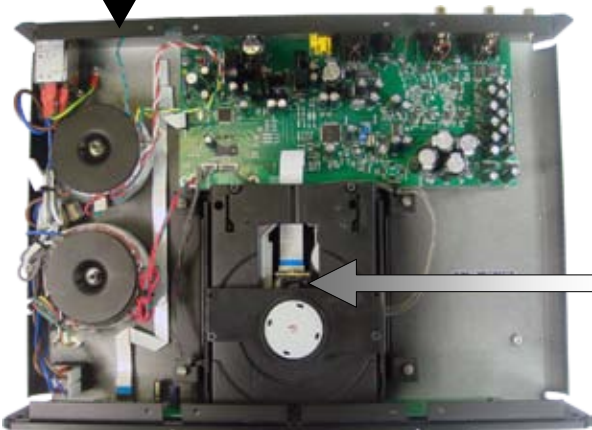
All specifications are liable to change without prior notice. E&OE

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.

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

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT



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