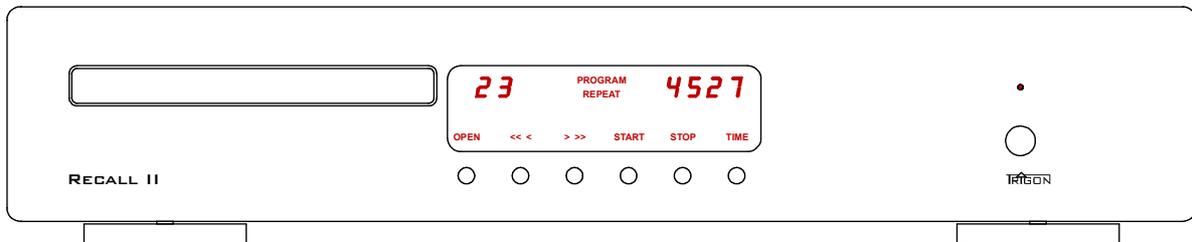




OPERATING INSTRUCTIONS

FOR CD-PLAYER

RECALL II



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1. Preface

Dear **TRIGON** - customer,

Thank you for choosing the CD Player **RECALL II**. This device was manufactured utilizing the strictest production controls and the latest precision technology.

Even if you are familiar with the use of HiFi devices, you should study this operation manual carefully and confirm your understanding of the instructions, which are contained therein.

Please keep this instruction manual, because it can serve as an aid in handling your CD Player in the future.

The **TRIGON** - team wishes you lots of fun with your new CD Player.

2. General technical manual

The **RECALL II** is a CD-Player, where outstanding tonal quality meets a design and set of features that conform to high-end demands.

This is exemplified by a high-quality drive – whose loader is guided by side stainless-steel push rods – that ensures that there is no loss of (digital) musical information from the start of playback onward. The digital signal is then passed on to a state-of-the-art 24-Bit serial converter with a 192-KHz sampling frequency from Burr Brown, which converts it into an analog signal.

The drive oscillator clocks the entire digital audio, so that clock-jitter is kept to a minimum. The steep roll-off slope of the output filter effectively prevents any aliasing of the playback signal.

The power is supplied by a specifically developed switched mode power supply, which provides the CD-player with a steady flow of power – even with large fluctuations in voltage - and eliminates the sound altering effects of electricity.

The 2mm strong steel-sheet casing is lined internally partially with absorption mats, so that microphonic effects are kept from the sensitive electronics. The **TRIGON** suspension absorber feet - whose principle of operation corresponds to that of a Belleville washer – round off a systematic approach to prevent sound distortions through microphonic effects.

The wide range of media in use today doesn't pose a problem for the **RECALL II'S** high-quality technology and its audio-optimized drive: The **RECALL II** is able to play CD-Rs and CD-RWs. These should be of good quality, otherwise "dropouts" may occur during playback.

The **RECALL II** is completely microprocessor controlled. It is possible to operate the player itself directly (not all functions) as well as via IR-remote control (**TRIGON DIRECTOR**). The clearly laid out display – which can be dimmed and turned off by the **DIRECTOR** - shows the current operating state. The **DIRECTOR** can also turn the CD-player on and off.

2.1 Safety notices.

TRIGON ELEKTRONIK assumes no liability for damage, which result from inappropriate handling and/or disregard for the following safety instructions.

The CD-player may not be placed close to strong heat sources such as heating elements, furnaces, high-powered lamps, open fires, etc.

The CD-player may not be exposed to strong impacts and vibrations.

The CD-player may not be connected to the power outlet immediate after being brought from a cold environment to a warm one. Condensation could damage the device. Wait a few minutes until the device is warmed up to room temperature.

The CD-player should not be exposed to direct sunlight.

Please ensure that the device gets sufficient ventilation at its installation location.

Don't pour fluid on the CD-player; the inside of the device must remain dry.

Never activate the device without having the protective casing in place.

Always remove the power plug from the socket before opening the device.

Never bridge the fuse. Please replace a defective fuse only with an original fuse of the same type and rating.

Never attempt repairs on your own. Only authorized, properly trained technical personnel may undertake any maintenance and/or repair. Any damage that results from improper handling or unauthorized repair attempts will void any possible warranty claim.

Please always turn off your system's device before changing and/or attaching cables.

The **RECALL II** can operate at a voltage between 180V and 250V, 230V is the average. If another voltage is required, please contact your dealer or **TRIGON**, so that the device can be retrofitted.

2.2 Set-up Recommendations

After unpacking the unit, examine the device first for possible transport damage. If you should determine damage has occurred, then immediately contact your dealer. Next, examine the contents of the container to ensure all components are present. You should find, in addition to the **RECALL II**, the following:

- Mains cable **TRIGON VOLT**
- IR remote control **DIRECTOR**
- Operating instructions **RECALL II**
- Warranty requirement certificate

Set up the device horizontally in a dry place. Ensure good ventilation. Strong magnetic scattering fields, which are caused by output stage transformers and halogen light transformers, can lead to stray humming effects. Therefore set up the CD Player some distance from such devices. Also, do not lay the cable connections parallel to the lighting leads.

Stray humming effects are also produced from fluorescent lamps, so keep a minimum distance of approximately 1m. Avoid direct sunlight and don't set up the **RECALL II** close to strong heat sources.

2.3 Guarantees and Service

The **RECALL II** is a high-quality and sophisticated product. We at **TRIGON** try to ensure the demands made of a **TRIGON**-product are met via numerous quality tests and strict goods control. If a problem should however occur, then **TRIGON ELEKTRONIK GMBH** grants a 3-years warranty. The warranty includes the repair of the defective part as well as any labor charges. This is the limit of liability.

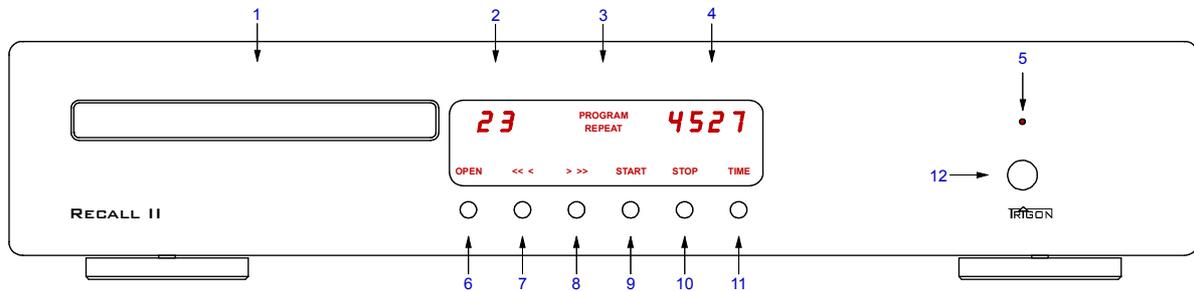
The warranty excludes any damage which resulted from inappropriate installation, incorrect operation or repairs through unauthorized specialist dealers and private individuals. Further the warranty is void with disguised serial numbers as well as when damage occurs as a result of accident or transport damages.

3. Start-up

After unpacking the CD Players, we recommend you first connect and switch on the device with electricity to the unit only, without having first connected it to other devices.

After a short switching on phase (the operating display LED [5] flashes) you hear a low clicking of a relay. The **RECALL II** is now ready for use. You should now make yourself somewhat familiar with the controls and the female connectors.

3.1 The Controls on the Front of the Unit



[1] CD Drawer:

Insert the CD here. The CD is to be inserted with the inscription side facing up and the data side facing downward.

Note: Often we already observed that customers "jiggle" at the opened drawer, in order to derive the quality from the drawer fetch. Notice: A certain fetch must be present, so that the drawer doesn't block itself between the opening and closing, i.e. this fetch is necessary and intended.

[2] LED Display Title Number

This display indicates the number of titles detected on the CD. Then the actual title number is indicated. This display expires if total play time and total remainder play time were shown in the indicator mode.

[3 a] LED Display PROGRAM

This display lights up, if you have switched on the programming mode.

(More on this mode further down)

[3 b] LED Display REPEAT

This display lights up, if the repetition function was switched on with the remote control. The entire CD will be repeated, if the programming mode isn't programmed differently, until the REPEAT-mode is switched off again, the rendition is stopped or the CD drawer is opened.

[4] LED Display Title Time

This four-digit display can be adjusted with the remote control and/or the MODE-key [11] to four different time indicator modes.

Mode 1: Already played title time, e.g. 2:45

Mode 2: Total remainder-rendering time, e.g. -63:37

Mode 3: Title remainder-rendering time, e.g. -5:23

Mode 4: Already played total rendering time, e.g. 34:52

[5] Operational status indicator LED

After switching on the CD Player this LED flashes for a few seconds, until the **RECALL II** stabilized its internal operating voltages. As soon as the LED is constantly, the CD Player is ready for use.

[6] Key OPEN

The CD drawer can be opened and closed by pressing this key. Every time you press this key, the OPEN-LED light briefly shines more brightly.

[7] Key < < < (title return and fast search return)

This key has two functions. The scanning laser jumps to the title beginning of the momentary shown title by briefly pressing the key. The laser will be brought to the previous title by pressing the key two times. Long pressing of the key arranges the return search where the signal can be listened to sequentially.

The LED over the key shines more brightly, as long as the key is pressed.

[8] Key > > > (title jump forward and fast search advance)

This key has two functions. The scanning laser jumps to the next title by briefly pressing the key. The advance search will be started by holding down the key, where the signal can be listened to sequentially.

The LED over the key shines more brightly, as long as the key is pressed.

[9] Key START

If there is an audio-CD in the **RECALL II**, the CD player can be started by pressing this key. Now the START-LED shines more brightly. By pressing the START-Button during the rendering procedure the Break-Function is switched on. Now the START-LED flashes. Pressing again on the start button solves the break, the starting LED shines again constantly and the device is again in the run mode.

[10] Key STOP

If you want to break off the rendering procedure, you can do that by depressing the key STOP. The LED STOP will shine more brightly.

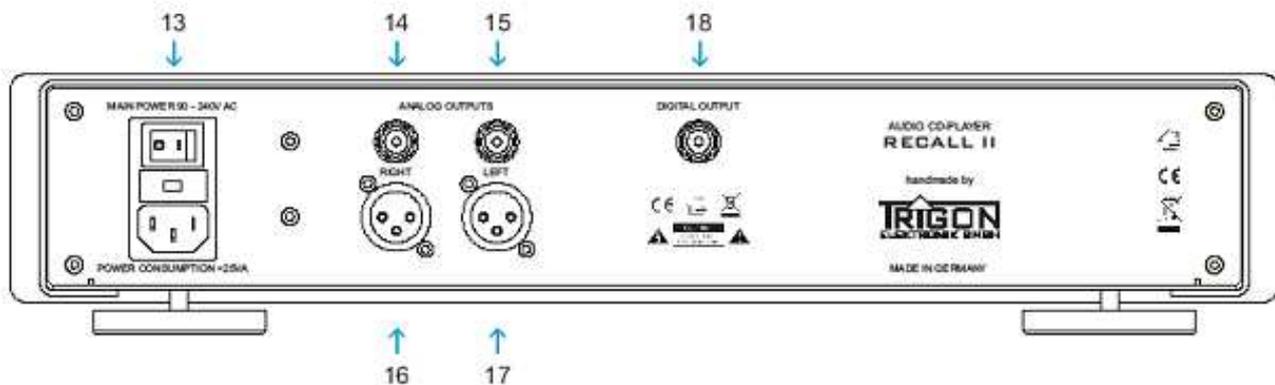
[11] Key MODE

The four different time modes can be selected with this key. For further information see number [4].

[12] Power switch

The **RECALL II** can be switched on and/or off with this switch. The mains voltage is directly powered, i.e., the **RECALL II** doesn't use any electricity when switched off.

3.2 The Connections on the Back



[13] Power Connector, Power Switch and Power Protection

The enclosed high-quality mains cable Volt will be inserted into the socket. Please pay attention to the mark (red point) and insert the plug into the electrical outlet of multiway connector so that the red mark lines up with the power phase. You can spot the power phase with the help of a simple mains tester. The red mark should square to that contact of the electrical outlet, where the mains tester lights up. This kind of “outphasing” improves the rendition and should be utilized for all components of a system as well.

The power connection is turned on by the toggle switch. If necessary, replace the fuse only with a fuse of the same value. The mains plug must be pulled out, before the fuses are exchanged.

[14 and 15] Cinch Exit

This output plug is connected with the input plug of the rendition amplifier. These entrances are usually designated at the amplifier with CD, AUX or LINE INPUT.

(Please take note of the operating instructions of your amplifier)

[16 and 17] Symmetrical Exit

This output plug is connected with a symmetrical input plug of the rendition amplifier. These entrances are usually designated at the amplifier with CD, AUX or LINE INPUT.

(Please take note of the operating instructions of your amplifier)

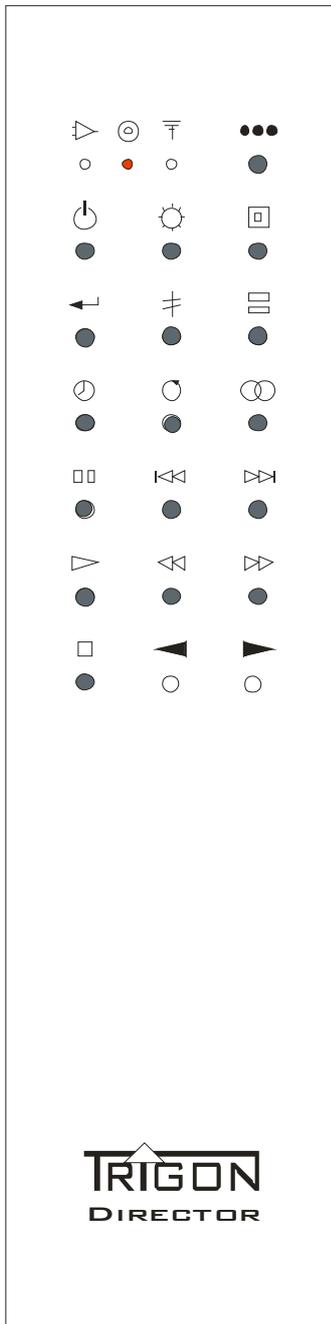
If your amplifier has a symmetrical input plug, then this entrance is preferred, because possible interspersed external signals on the cable connection extinguish themselves so again.

[18] Digital Output

A separate digital-analogue transducer can be attached at this BNC socket. Please make sure that you attach and adjust the provided HF-terminal resistance to this socket, if you don't use this exit. This avoids radiating uncontrolled high frequency signals with this exit, such as with a radio station, where it is possible that sensitive high frequency devices like your UKW-Tuner or television could be disturbed.

3.3 The Remote Control

The IR-remote control **DIRECTOR** is available as accessory for CD Player **RECALL II**



The **DIRECTOR** is a system remote control which is also compatible to other **TRIGON** HiFi devices .

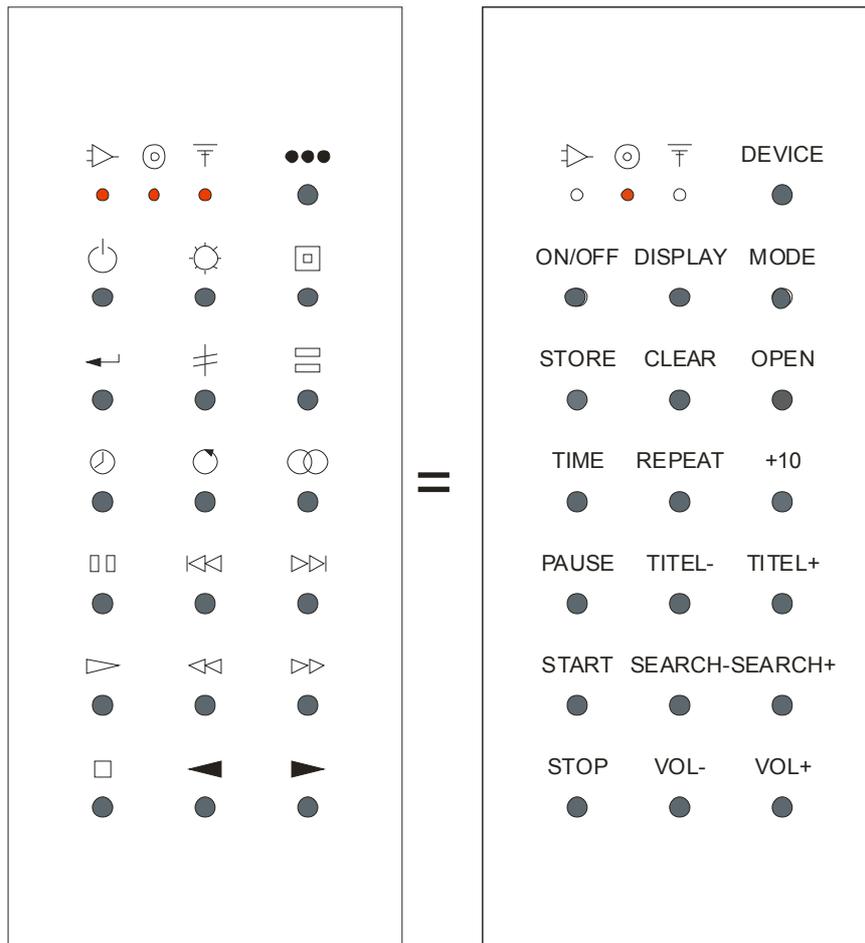
The graphic on the left shows all keys, with which the **RECALL II** can be served, in dark colour. These keys are available during selection type CD Player .

The following functions of **RECALL II** can **only** be performed with the remote control:

- **DISPLAY** With this key the display can be turned on/off or dimmed
- **+ 10** With this key the 10th-keyboard is activated for the lighting time of the LED.
- **REPEAT** With this key the REPEAT mode can be switched on and/or off.
- **MODE** With this key the program mode can be activated.
- **STORE** This key stores the selected title.
- **CLEAR** With this key the selected title can be deleted.

Please learn from the manual of the **DIRECTOR** and the following graphic, which keys are relevant for these and all other functions.

3.3.1 Button layout **DIRECTOR** for **RECALL II**



Key **DISPLAY** ☀

The intensity of the display can be lowered by pressing this key slowly down to 0. To reactivate the display simply press the key again.

The display lights up at every operation for 6 seconds and switches off again (see above).

If the key is pressed for ca. 3 seconds, the mode for adjusting the intensity of the display is activated. It can be adjusted to an intensity between 1 and 99. The arrow keys (TITEL- und TITEL+) are used for this purpose. The new value will be stored automatically.

Key **MODE** □

You arrive to programming mode with this key. The LED PROGRAM lights up in the display in the program mode. Now the desired titles of the inserted CD can be selected in arbitrary order via the arrow keys directly at the **RECALL II** itself or via **DIRECTOR**. Each selected title has to be confirmed by pressing the key STORE. The key CLEAR can delete the last input.

If all titles to be played are entered, press the key START and the rendition begins in the order, you have pre-programmed.

By pressing the key STOP once program can be stopped. To start over press the key START. This is also valid, when the program has been finished.
The complete program will be deleted by pressing the key MODE, pressing the key STOP twice or by opening the drawer.

Key STORE

The title, that has been selected in the program mode (MODE), is be stored with this key.

Key CLEAR

This key can erase the last title, which was chosen in the program mode (MODE), so the first selected choice can be corrected.

Key OPEN

The **RECALL II** CD drawer can be opened or closed by pressing the key OPEN.

Key TIME

The time modes described under number [4] can be selected in the order indicated with the key TIME.

Key REPEAT

The REPEAT mode can be switched on and/or off with this key. See also number [3b]

Key +10

This key switches on – for a limited time - the 10th-keyboard, which allows direct selection of titles. If activated, the LED lights up at the **DIRECTOR** and the display of **RECALL II** shows two horizontal lines, which later shows the entered numerals (numbers of titles) indicated. The following keys delineate the numerals in the activated 10th-keyboard, whereby single- or double pressing the single- or double-digit number of the title can be entered directly:

Numeral	Key	Numeral	Key	Numeral	Key
1	ON/OFF	2	Display	3	Mode
4	STORE	5	CLEAR	6	OPEN
7	TIME	8	REPEAT	9	+10
0	PAUSE				

The function starts automatically after entering the corresponding numeral(s).

Keys TITEL - **and TITEL+**

These keys offer a partial function described under [7] and [8] and their functionality. If the key TITEL- is pressed one time, the scanning laser springs back to the beginning of the most recently played title. By pressing the key two times it springs to the previous title. The next title will be selected by pressing the key TITEL+.

Keys SEARCH - and SEARCH+

These keys offer a partial function described under [7] and [8] and their functionality. Press and hold the key SEARCH- for a few seconds to search backward; press and hold the key SEARCH+ for a few seconds to search forward. The signal can still be heard in both cases sequentially.

Key PAUSE □ □

If the CD-Player is in render style, the rendition can be stopped by using the function of break. By using the key START the Pause is cancelled and the rendition can be continued (Also described under [9].)

Key START ▷

The rendition can be started with this key.

Key STOP □

The rendition is stopped with this key. It is also used to delete a program selected in the program mode.

Keys VOL – and VOL+ ◀ ▶

These keys do not control any functionalities of **RECALL II**. However, they will control the volume of a connected **TRIGON** Amplifier, without switching the Director to the Amplifier ▷ device.

4. What to do, if...

In this chapter we want to give you a few hints, which will help to resolve smaller problems.

4.1 ... nothing works?

Is the power supply plug inserted correctly? - Put the power supply plugs firmly into the plug socket.

Does the mains voltage rest against the used main plug socket, or has the home fuse maybe reacted? – Examine the home fuse.

Did the internal micro fuse burn through? – Return the device back for service.

4.2 ... one hears nothing?

Is the correct entrance at the amplifier selected? - Select the correct entrance.

Does the **RECALL II** supply at all a signal? – Attach the **RECALL II** to another entrance and examine if it functions. If this is the case, something is wrong with the other entrance of the amplifier. - Examine the entrance of the preamplifier.

Was a computer data CD inadvertently inserted? – Insert an audio CD.

Did the **RECALL II** read the CD correctly? – If the player cannot read the CD, it tries to read the data in anyway. If it isn't successful, the message "NO disc or 00 0000" appears in the display. The CD is either defective or badly scratched and/or dirty. - Use a new CD.

4.3 ... it hums?

Are the connecting cables tight and firmly put in? – Examine connection leads.

Sometimes multiple groundings can cause so-called humming loops. This problem requires an experienced technician. We recommend you to contact your specialist dealer.

... It hums only, if the tuner, the video recorder, or the television is connected to the preamplifier. - All these devices are connected with a grounded antenna. Thus it causes a humming loop again, which can be simply eliminated, in this case simply with a fan-jet filter, which is switched into the antenna inlet. Such fan-jet filters are available inexpensively in radio and television speciality shops.

4.4 ... the remote control doesn't operate?

Does the remote control operate in the preamplifier mode? – Press the key ●●● on the remote control. The LED ☺ will shine. The remote control is activated now for the **RECALL II**.

Are the batteries dead? - Insert new batteries.

Is there too much distance? - Reduce the distance. The IR remote control has a limited range. The IR remote control will operate at a distance of up to eight metres with fully charged batteries, depending upon exposure to sunlight.

If the receiver probe is exposed to bright sunlight, the range decreases. – Avoid direct sunlight.

5. Technical Data

Frequency response	: 20Hz - 20kHz (+ - 1dB)
Distortion factor	: < 0.02 %
Cross-talk attenuation	: < -80 dB (1kHz)
Distance of weighted noise voltage	: < -100 dBA
Outputs	: Audio - 1x Cinch , 1x XLR : Digital - 1x BNC
Output Impedance	: Line Cinch and XLR each 47 Ohm
max. Output voltage	: 2 V eff
Accessories (optional)	: IR-remote control DIRECTOR
Weight	: 8,1 kg
Dimension	: 440 x 89 x 320 mm (BxHxd)
Warranty	: 3 years

Subject to change

Production and construction:

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Kassel, Feb 2009