

## AM/FM STEREO COMPACT DISC PLAYER



CD-470A  
USER MANUAL

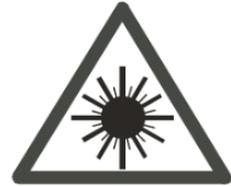
**PLEASE READ THIS USER MANUAL COMPLETELY BEFORE OPERATING  
THIS UNIT AND RETAIN THIS BOOKLET FOR FUTURE REFERENCE.**

## CAUTION

### CLASS 1 LASER PRODUCT

CLASS 1 LASER PRODUCT  
APPAREIL À LASER DE CLASSE 1  
PRODUCTO LÁSER DE CLASE 1

CAUTION  
INVISIBLE LASER RADIATION  
WHEN OPEN AND INTERLOCKS  
DEFEATED.  
AVOID EXPOSURE TO BEAM.



This product contains a low power laser device.

Follow the advice below for safe operations.

#### ON PROTECTION AGAINST LASER ENERGY EXPOSURE

- ♦ As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the casing.
- ♦ Stop operation immediately if any liquid or solid object should fall into the cabinet.
- ♦ Do not touch the lens or poke at it. If you do, you may damage the lens and the player may not operate properly.
- ♦ Do not put anything in the safety slot. If you do, the laser diode will be ON when the CD door is still open.
- ♦ If the unit is not to be used for a long period of time, make sure that all power sources are disconnected from the unit. Remove all batteries from the battery compartment, and unplug the AC-DC adaptor from the wall outlet. Make it a practice to remove the AC-DC by grasping the main body and not by pulling the cord.
- ♦ This unit employs a laser. The use of controls or adjustment or performance of procedures other than those specified here may result in exposure to hazardous radiation.

#### ON PLACEMENT

- ♦ Do not use the unit in places where are extremely hot, cold, dusty or humid.
- ♦ Place the unit on a flat and even surface.
- ♦ Do not restrict the air-flow of the unit by placing it in a place with poor ventilation, by covering it with a cloth or by placing it on a carpet.

#### ON CONDENSATION

- ♦ When left in a heated room where it is warm and damp, water droplets or condensation may form inside the unit.
- ♦ When there is condensation inside the unit, the unit may not function normally.
- ♦ Let it stand for 1 to 2 hours before turning the power on, or gradually heat the room up and dry the unit before use.

Should any trouble occur, remove the power source and refer servicing to qualified personnel.

## COMPLIANCE WITH FCC REGULATIONS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE :** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which

can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

## DEAR JENSEN CUSTOMER

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing. Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

### To establish a safe level:

- ♦ Start your volume control at a low setting.
- ♦ Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

### Once you have established a comfortable sound level:

Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

### We Want You Listening For a Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise.



### Customer's Record:

The serial number of this product is found on its bottom. You should note the serial number of this unit in the space provided as a permanent record of your purchase to aid in identification in the event of theft or loss.

**Model Number: CD-470A**

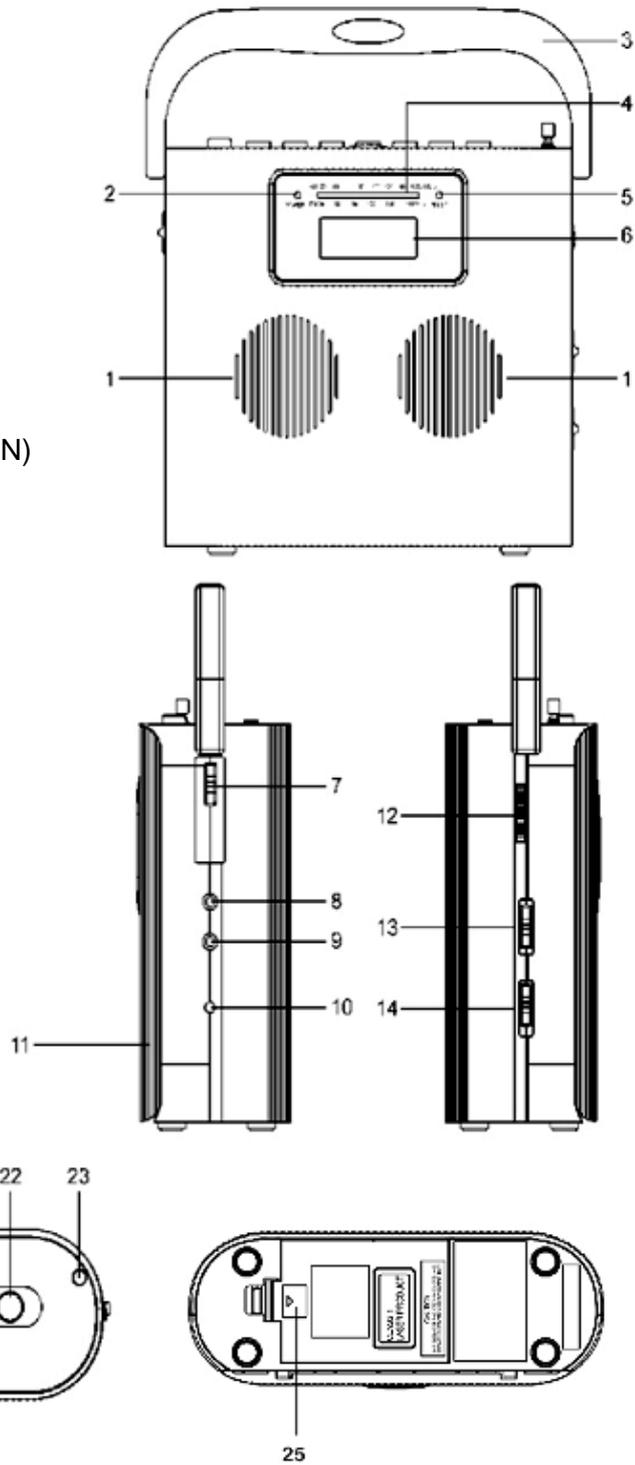
**Serial Number:** \_\_\_\_\_

## PROTECT YOUR FURNITURE!!

This system is equipped with non-skid rubber 'feet' to prevent the product from moving when you operate the controls. These 'feet' are made from non-migrating rubber material specially formulated to avoid leaving any marks or stains on your furniture. However certain types of oil based furniture polishes, wood preservatives, or cleaning sprays may cause the rubber 'feet' to soften, and leave marks or a rubber residue on the furniture. To prevent any damage to your furniture we strongly recommend that you purchase small self-adhesive felt pads, available at hardware stores and home improvement centers everywhere, and apply these pads to the bottom of the rubber 'feet' before you place the product on fine wooden furniture.

## LOCATIONS OF CONTROLS

1. BUILT-IN SPEAKERS
2. POWER INDICATOR
3. FOLD DOWN HANDLE
4. DIAL SCALE
5. FM STEREO INDICATOR
6. LCD DISPLAY
7. POWER ON/OFF SWITCH
8. AUX IN JACK
9. STEREO HEADPHONE JACK
10. DC INPUT JACK (DC6V 0.6A)
11. CD DOOR (ON BACK)
12. VOLUME CONTROL
13. FUNCTION SWITCH (CD/RADIO/AUX IN)
14. BAND SWITCH (AM/FM/FM STEREO)
15. CD DOOR OPEN BUTTON
16. PROGRAM (PROG) BUTTON
17. REPEAT BUTTON
18. RANDOM BUTTON
19. STOP BUTTON ■
20. FAST REVERSE (FR) BUTTON ◀◀
21. FAST FORWARD (FF) BUTTON ▶▶
22. PLAY/PAUSE BUTTON ▶||
23. FM TELESCOPIC ANTENNA
24. TUNING CONTROL
25. BATTERY COMPARTMENT



## POWER SOURCES

### BATTERY OPERATION

1. Set the POWER ON/OFF Switch to the OFF position.
2. Remove the cover from the BATTERY COMPARTMENT on the bottom of the unit.
3. Follow the polarity diagram inside the compartment (+ and -) and insert 4 x DC1.5V  $\text{---}$  'C' size batteries (LR14, UM-2) (not included). Heavy duty alkaline batteries are recommended.
4. Re-attach the battery compartment cover and be sure it locks into place securely.

**IMPORTANT:**

Be sure that the batteries are installed correctly. Wrong polarity may damage the unit and void the warranty.

**BATTERY CARE**

- ◆ Do not mix old and new batteries.
- ◆ Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- ◆ Replace the battery only with the same or equivalent type.
- ◆ If the unit is not to be used for an extended period of time, remove the battery. Old or leaking battery can cause damage to the unit and may void the warranty.
- ◆ Do not dispose of batteries in fire, batteries may explode or leak.

**AC/DC ADAPTOR OPERATION**

Before connecting the adaptor, set the POWER ON/OFF switch to the OFF position.

Insert the DC plug of an AC adaptor rated at DC6V $\overline{\text{---}}$  0.6A (not included) into the DC JACK on the left side of the unit.

Plug the AC adaptor into a convenient standard 120V~ AC 60Hz wall outlet.

## LISTENING TO THE RADIO

**RADIO OPERATION**

1. Set the CD/RADIO/AUX IN switch to RADIO position. Set the desired radio band with the AM/FM/FM ST switch.
2. Set the POWER ON/OFF switch to the ON position and the POWER INDICATOR will turn on.
3. Tune in a desired station by rotating the TUNING CONTROL, when a FM stereo program is being received, the "FM ST" INDICATOR will turn on automatically.  
**Note:** If the FM station signal is weak and there is a large amount of static noises, set the AM/FM/FM ST switch to FM position to select FM MONO mode, the "FM ST" INDICATOR will turn off and the background will become quieter.
4. Adjust the VOLUME CONTROL for your desired listening level.
5. To turn off the radio, set the POWER ON/OFF switch to OFF position, the POWER INDICATOR will turn off.

**HINTS FOR BEST RECEPTION:**

**AM** - The AM antenna is located inside the cabinet of the unit. If AM reception is weak, change the position of unit until the internal antenna picks up the strongest signal.

**FM** - To insure maximum FM tuner reception, fully extend the FM TELESCOPIC ANTENNA for the best FM radio reception.

## PLAYING A COMPACT DISC

This unit plays not only commercial CDs but also self-compiled CD-R/RW discs.

**PLEASE READ THIS IMPORTANT INFORMATION:**

CD mechanisms used in devices like this are designed to fully read all commercial CDs. They will also read self-compiled CD-R/CD-RW discs but it may take up to 10 seconds for playback to start. If playback does not start, it is likely due to the quality of the CD-R/CD-RW disc and/or the compatibility of the CD compilation software. Manufacturer is not responsible for the playback quality of CD-R/CD-RW discs.

Do not attach a label or seal to either side of the CD-R/RW disc. It may cause a malfunction.

**GETTING STARTED**

1. Set the VOLUME CONTROL to a low level.
2. Press the CD DOOR OPEN button to open the CD compartment.
3. Load a disc onto the spindle inside the CD compartment with label side facing the front.
4. Close the CD DOOR.
5. Set the CD/RADIO/AUX IN Switch to CD position.
6. Set the POWER ON/OFF switch to ON position to turn on the power, the POWER INDICATOR will turn on.

7. After the disc is read, the LCD DISPLAY will show the total number of tracks and then the disc will stop.
8. Press the PLAY/PAUSE button once, the disc will start playing from the beginning.
9. Adjust the VOLUME CONTROL to desired level.
10. To turn off the CD function, press STOP to stop the playback and set the POWER ON/OFF switch to OFF position, the POWER INDICATOR will turn off.

## GENERAL OPERATION

### PLAY / PAUSE ►||

Press once to start playback in the normal order. The “►” icon will show on the display.  
Press again to stop the disc play temporarily. The “►” icon will flash.

### FR/FF-SKIP/SEARCH ◀◀ / ▶▶

In stop mode:

Press ▶▶ once to skip to next track or ◀◀ to go back to previous track.

During playback mode:

Press ◀◀ to return to the start of the current track.

Press and hold ▶▶ / ◀◀ button to search forward or backward.

### REPEAT

During playback mode, press REPEAT button once to play a track repeatedly. The REPEAT INDICATOR, “RPT ONE” will appear in the LCD DISPLAY.

During playback mode, press REPEAT button twice to play the entire disc repeatedly. The REPEAT INDICATOR, “RPT ALL” will appear in the LCD DISPLAY.

To cancel the repeat function in any mode, press the REPEAT button repeatedly until the REPEAT INDICATOR, “RPT” disappears from the LCD DISPLAY.

### RANDOM PLAY

In stop mode:

Press RANDOM button once, “RAND” will show on the LCD DISPLAY and all tracks on the disc will be played back randomly. After all the tracks have been played once, the disc will stop automatically.

During playback mode:

Pressing the RANDOM button will abort the current track immediately and switch to a random track. The disc will stop automatically after all tracks on the disc have been played.

Pressing the RANDOM button once more will cancel random play and resume normal play. The current track will continue to play. Disc play will terminate after the last track of the disc has been played.

Press STOP button to cancel random play and the disc will stop immediately.

### STOP ■

Press once to stop all normal and program play.

## PROGRAM PLAY

1. In stop mode, press the PROG button once, the display will show “PGM 01” and flash. “01” means program number 1. Press ▶▶ or ◀◀ button to select the desired track.
2. Press PROG button again to enter the track into memory and the display will advance to “PGM 02” for program number 2. Press ▶▶ or ◀◀ button to select the desired track.
3. Repeat step 2 to program up to 20 tracks.  
**Note:** If your program is fewer than 20 tracks, you can just press PLAY/PAUSE button after the last programmed track to exit program mode and proceed to program play directly.
4. When the program memory is full, the LCD DISPLAY will show all the programmed tracks one by one from the beginning.
5. After the last programmed track has been shown, the LCD DISPLAY will change to “PGM 01” again and flash for 30 seconds to allow you to edit the program memory if desired.
6. Press PLAY/PAUSE button to start program play immediately. If there is no activity when the edit mode has expired, the LCD DISPLAY will revert to normal stop mode.
7. You may now choose to select normal play by pressing PLAY/PAUSE button once or program play by pressing PROG button prior to PLAY/PAUSE button.
8. To stop the program play without erasing the program memory, press the STOP button once.
9. If your want to edit the program memory now, press the PROG button once, the display will show “PGM 01” and flash.

10. Press the PROG button repeatedly until the desired program number to be edited is shown. Press ►► or ◀◀ button to select a new track and press the PROG button to confirm.
11. Press the PLAY/PAUSE button to start playing in your new program sequence.
12. To check the program memory in stop mode, press the PROG button repeatedly until the last program number is shown, the LCD DISPLAY will then show the program memory tracks one by one and revert to program stop mode at the end.
13. To erase the program memory permanently, press STOP button twice or open the CD DOOR or turn off the power.

## LISTENING TO AN AUXILIARY AUDIO SOURCE

This unit provides an auxiliary audio signal input jack for connecting external audio devices like MP3 players, CD players and iPods (except iPod shuffle 3rd generation) and listen to your external source through the speakers of this system.

1. You need an audio cable (not included) with one 3.5 mm stereo plug on each end of the cable.
2. Plug one end of the cable into the AUX-IN jack located on the left hand side of the unit and the other end of the cable into the Line-out Jack or Headphone Jack of your external audio device.
3. Turn on the external audio device.
4. Set the CD/RADIO/AUX IN switch of the unit to AUX IN mode and turn on your unit.
5. The volume level can now be controlled through the VOLUME CONTROL of your unit. Operate all other functions on the auxiliary device as usual.

### Notes:

- ◆ If you connected the Line-out Jack of your external device then you only need to adjust the volume control of this system. If you connected the Headphone Jack of your external device then you may need to adjust both the volume control of your external device and the VOLUME CONTROL of this unit to find the most desirable volume setting.
- ◆ Remove the audio cable from AUX IN jack when you finish listening. Don't forget to switch off the power on your external device as well.

## STEREO HEADPHONE JACK

You can use your stereo headphones (not included) to listen to the music or radio in privacy.

1. Turn down the volume to a lower level.
2. Insert the stereo plug of your headphones into this jack and the internal speaker sound will be cut off automatically.
3. Adjust the volume to your desired level.

## CARE AND MAINTENANCE

1. Clean the unit with a soft, damp (never wet) cloth. Solvent or detergent should never be used.
2. Avoid operating your unit under direct sunlight or in hot, humid or dusty places.
3. Keep your unit away from heating appliances and sources of electrical noise such as fluorescent lamps or motors.
4. For better Clock Display clarity, avoid operating the unit under direct sunlight or in strong room illumination.
5. If drop-outs or interruptions occur in the music during CD play, or if the CD fails to play at all, its bottom surface may require cleaning. Before playing, wipe the disc from the center outwards with a good soft cleaning cloth.



**Note:** Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for analogue discs.

## TROUBLESHOOTING GUIDE

If you experience difficulties in the use of this player please refer to the following chart or call 1-800-777-5331 for Customer Service.

PROBLEM	POINTS TO CHECK	POSSIBLE SOLUTIONS
CD Player fails to function or intermittent CD Sound	<ul style="list-style-type: none"> <li>- The disc may be inserted upside down. The disc not mounted correctly on the chuck. Dirty or a defective disc.</li> <li>- Dirty pick up lens.</li> <li>- CD DOOR not closed properly.</li> <li>- Moisture condensation.</li> <li>- AC power to the external AC adaptor is interrupted.</li> <li>- Weak batteries.</li> </ul>	<ul style="list-style-type: none"> <li>- Reload the CD in the correct way.</li> <li>- Clean the pickup lens.</li> <li>- Close the CD DOOR securely.</li> <li>- Allow the player to warm up to room temperature for 60 minutes.</li> <li>- Change to another working AC power outlet.</li> <li>- Change all weak batteries to new alkaline batteries.</li> </ul>
No sound from Headphones	Headphone plug is not firmly inserted into the HEADPHONE JACK.	Reinsert the headphone plug properly.
Cannot listen to the radio	<ul style="list-style-type: none"> <li>- The function switch is not set to "RADIO" mode.</li> <li>- The FM ELESCOPIC ANTENNA is not fully extended when listening to a weak FM radio station.</li> <li>- Volume set to minimum.</li> </ul>	<ul style="list-style-type: none"> <li>- Set function switch to "RADIO" and select AM or FM/FM ST. band using the band selector.</li> <li>- Fully extend the FM ANTENNA.</li> <li>- Increase volume.</li> </ul>



At Spectra, environmental and social responsibility is a core value of our business. We are dedicated to continuous implementation of responsible initiatives with an aim to conserve and maintain the environment through responsible recycling.

Please visit us at <http://www.spectrainl.com/green.htm> for more information on Spectra's green initiatives or to find a recycler in your area.

**90 DAY LIMITED WARRANTY AND SERVICE  
VALID IN THE U.S.A. ONLY**

SPECTRA MERCHANDISING INTERNATIONAL, INC. warrants this unit to be free from defective materials or factory workmanship for a period of 90 days from the date of original customer purchase and provided the product is utilized within the U.S.A. This warranty is not assignable or transferable. Our obligation under this warranty is the repair or replacement of the defective unit or any part thereof, except batteries, when it is returned to the SPECTRA Service Department, accompanied by proof of the date of original consumer purchase, such as a duplicate copy of a sales receipt.

You must pay all shipping charges required to ship the product to SPECTRA for warranty service. If the product is repaired or replaced under warranty, the return charges will be at SPECTRA's expense. There are no other express warranties other than those stated herein.

This warranty is valid only in accordance with the conditions set forth below:

1. The warranty applies to the SPECTRA product only while:
  - a. It remains in the possession of the original purchaser and proof of purchase is demonstrated.
  - b. It has not been subjected to accident, misuse, abuse, improper service, usage outside the descriptions and warnings covered within the user manual or non-SPECTRA approved modifications.
  - c. Claims are made within the warranty period.
2. This warranty does not cover damage or equipment failure caused by electrical wiring not in compliance with electrical codes or SPECTRA user manual specifications, or failure to provide reasonable care and necessary maintenance as outlined in the user manual.
3. Warranty of all SPECTRA products applies to residential use only and is void when products are used in a nonresidential environment or installed outside the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. TO OBTAIN SERVICE please remove all batteries (if any) and pack the unit carefully and send it freight prepaid to SPECTRA at the address shown below. IF THE UNIT IS RETURNED WITHIN THE WARRANTY PERIOD shown above, please include a proof of purchase (dated cash register receipt) so that we may establish your eligibility for warranty service and repair of the unit without cost. Also include a note with a description explaining how the unit is defective. A customer service representative may need to contact you regarding the status of your repair, so please include your name, address, phone number and email address to expedite the process.

IF THE UNIT IS OUTSIDE THE WARRANTY PERIOD, please include a check for **\$12.00** to cover the cost of repair, handling and return postage. All out of warranty returns must be sent prepaid.

It is recommended that you contact SPECTRA first at 1-800-777-5331 or by email at [custserv@spectraintl.com](mailto:custserv@spectraintl.com) for updated information on the unit requiring service. In some cases the model you have may be discontinued, and SPECTRA reserves the right to offer alternative options for repair or replacement.

SPECTRA MERCHANDISING INTERNATIONAL, INC.  
4230 North Normandy Avenue,  
Chicago, IL 60634, USA.  
1-800-777-5331

To register your product, visit the link below to enter your information.  
<http://www.spectraintl.com/wform.htm>

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