

USER GUIDE

INSIGNIA™

Portable CD Player

NS-P4112



Before using your new product, please read these instructions to prevent any damage.

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Insignia NS-P4112 Portable CD Player

Contents

Welcome	2
Safety information	3
Features	6
Setting up your CD Player	7
Using your CD Player	9
Troubleshooting	13
Maintaining	14
Specifications	15
Legal notices	16
ONE-YEAR LIMITED WARRANTY - INSIGNIA	17

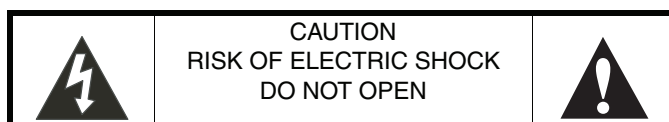
Welcome

Congratulations on your purchase of a high-quality Insignia product. Your NS-P4112 represents the state of the art in portable CD player design and is designed for reliable and trouble-free performance.

Insignia NS-P4112 Portable CD Player

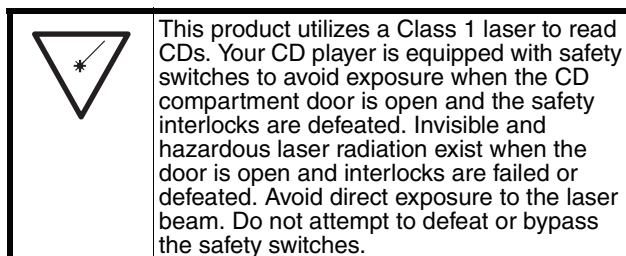
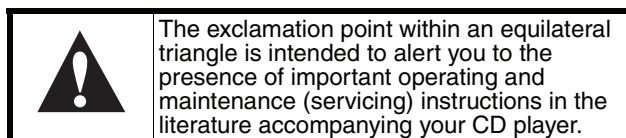
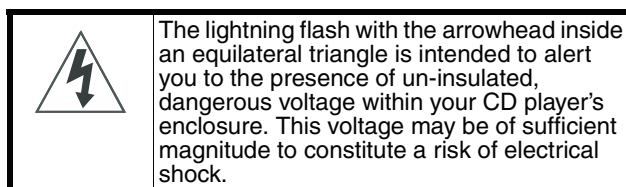
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Safety information



Warning

To reduce the risk of electric shock, do not remove the cover or back. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.



Surge protectors:

We recommend that you use a surge protector when you connect your CD player to AC power. A surge protector will help protect your CD player from lightning and power surges, which are not covered by your warranty.

Follow these safety precautions:

- Read and retain all instructions.
- Do not open the CD door while the CD is spinning.

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- Always keep the CD door closed when not in use.
- Keep all foreign objects out of the CD compartment.
- Place your CD player on a stable surface.
- Avoid installing your CD player in any of the following locations:
 - Places exposed to direct sunlight or close to heat radiating appliances, such as electric heaters.
 - On top of other stereo equipment that radiates too much heat.
 - Places that lacks correct ventilation or dusty places.
 - Places subject to constant vibration.
 - Places that are humid or moist.

Caution

Do not expose your CD player to dripping or splashing and do not set objects filled with liquid, such as vases, on top of your CD player.

Hearing protection

To protect your hearing, make sure that the volume is set at a safe level, one that lets the sound come through loud and clear without annoying blaring or distortion.

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. To protect your hearing, set the volume at a safe level before your hearing adapts.

To establish a safe level:

- 1 Start playback with your volume control at a low setting.
- 2 Slowly increase the volume until you can hear comfortably and clearly, but without distortion.
- 3 After you find a comfortable volume level, leave the volume set at this level.



Because hearing damage from loud noise is often undetectable until it is too late, Insignia and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise.

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The following list of sound (decibel) levels is included for your protection.

Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet (6 meters), sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at 2 feet (0.6 meters)

The following decibel levels can be dangerous under constant exposure:

Level	Example
90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet engine
180	Rocket launching pad

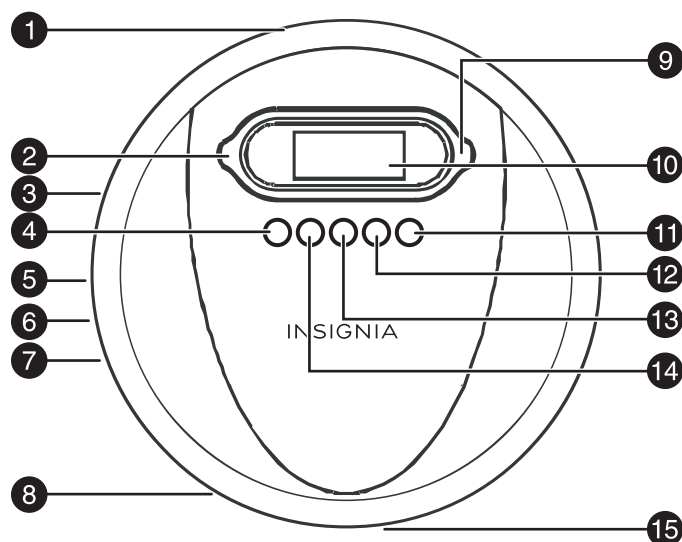
Note

Information courtesy of the Deafness Research Foundation.

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Features



#	Item	Description
1	DC INPUT jack (4.5 V)	Plug the optional AC/DC power cord into this jack and into an AC power outlet.
2	■ Stop button	Press to stop playback.
3	HOLD switch	Slide to lock button controls so you do not accidentally press a button.
4	⏮ Skip backward button	Press to go to the previous CD track. Press and hold to search backward at high speed.
5	LINE OUT jack	Plug an audio cable into this jack and into the CD/AUX jack on an external audio system.
6	PHONE jack	Plug headphones into this jack.
7	Volume control switch	Slide to adjust the volume.
8	DBBS (bass boost) switch	Slide to the ON position to turn on bass boost. Slide to the OFF position to turn off bass boost.
9	▶ Play/Pause button	Press to start or pause playback.
10	LCD display	Displays information about the currently playing CD and various functions of your CD player.

#	Item	Description
11	MODE button	Press once to repeat a track. Press twice to repeat a CD. Press three times to start Intro playback mode. Press four times to start random playback mode.
12	 ESP button	Press to turn the anti-shock feature on or off.
13	PROG. button	Press to program a playback list. For more information, see "Programming a playback list" on page 11.
14	 Skip forward button	Press to go to the next track on the CD. Press and hold to search forward at high speed.
15	CD compartment door and OPEN button	Press to open the CD compartment door, insert a CD (label side up) into the CD compartment, then close the door.

Setting up your CD Player

Installing batteries

To install batteries:

- 1 Slide the battery compartment door (located on the bottom of your CD player), then lift it up. Do not remove the door.
- 2 Insert 2 AA alkaline batteries into the battery compartment. Make sure that the + and – symbols on the batteries match the + and – symbols inside the battery compartment.

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3 Close the battery compartment door.

Cautions

Use only the size and type of batteries specified.

Make sure that you match the + and – symbols on the batteries with the + and – symbols inside the battery compartment. If you insert the batteries backwards, your CD player may be damaged.

Do not mix different types of batteries together (such as alkaline, rechargeable, and carbon/zinc).

Do not mix old batteries and new batteries.

When you do not plan to use your CD player for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.

Do not try to recharge batteries not intended to be recharged. They can overheat and rupture.

Connecting to an external audio system

To connect your CD player to an external audio system:

- 1 Make sure that your CD player is turned off and unplugged (if you are using an AC/DC power cord).
- 2 Plug one end of an audio cable into the **LINE OUT** jack on your CD player.
- 3 Plug the other end of the audio cable into the **CD/AUX** jack on the external audio system. Do not plug the cable into an amplifier **PHONE** jack.

Connecting the headphones

To connect the headphones:

- Plug the headphone cable into the **PHONE** jack on your CD player.

Using your CD Player

Playing a CD

Caution

Your CD player is designed to play audio CDs.
Do not try to play any other type of discs.

To play a CD:

- 1 Connect the headphones (included) or optional earphones into the **PHONE** jack on your CD player.
- 2 Press the **OPEN** button to open the CD compartment door.
- 3 Insert a disc with the label side facing up.
- 4 Press down on the CD compartment door until it clicks into place.
- 5 Set the **VOLUME** control to minimum.
- 6 Press the ►|| button. Your CD player turns on and starts playing the CD. The total number of tracks and playing time appear on the display. During playback, the track number and the elapsed playing time appears on the display.
- 7 Adjust the volume to a comfortable level. Do not play a CD at a loud volume level because you may damage your hearing.
- 8 To pause playback, press the ►|| button. The elapsed time and track number flash on the display. Press the button again to resume playback.
- 9 To stop playback, press the ■ button once.
- 10 To turn off your CD player, press the ■ button twice.

Notes

If the CD compartment door opens accidentally during playback, **OPEN** appears on the display.

Make sure that the CD has stopped spinning before you open the CD compartment door.

Your CD player can play 3-inch (8 cm) single CDs without an adapter.

Automatic power off

When your CD player stops playing, it enters standby mode. After 30 seconds in standby mode, your CD player turns off automatically to save battery power.

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Searching for a track or a section of a track

To search for a track or a section of a track:

- Press the **⏮** button once to go to the beginning of the currently playing track.
- Press the **⏮** button repeatedly to go to backwards through the tracks on the CD.
- Press the **⏭** button once to go to the next track.
- Press the **⏭** button repeatedly to go to forward through the tracks on the CD.
- Press and hold the **⏮** or **⏭** button to search backwards or forwards at high speed. When you find the section you want, release the button.

Note

To help you locate the track or section you want, low level audio is played when you search.

Repeating a track

To repeat a track:

- 1 Press the **MODE** button. The **↺** indicator appears on the display.
- 2 Press the **⏭** button. Your CD player repeats the current track until you press the **■** button.

Repeating a CD

To repeat a CD:

- 1 Press the **MODE** button twice during playback. The **↺** indicator appears on the display, and your CD player plays the CD repeatedly.
- 2 To cancel the repeat mode, press the **MODE** button three times. The repeat indicator disappears from the display.

Using Intro play mode

You can play the first 10 seconds of each track on a CD to help you find the track you want.

To use Intro play:

- 1 Press the **MODE** button three times to start Intro play mode. **INTRO** flashes on the display.

- 2 Press the **▶||** button. Your CD player plays the first 10 seconds of each track on the CD.
- 3 Press the **MODE** button twice to cancel Intro play mode and resume normal playback.

Tip

After your CD player plays the first 10 seconds of all the tracks on the CD, your player waits 30 seconds, then turns off.

Playing tracks randomly

You can play the tracks on a CD in random order.

To play tracks randomly:

- 1 Press the **MODE** button four times to start random playback. RAND appears on the display.
- 2 Press the **▶||** button. Your CD player starts playing the tracks in random order.

Note

If a CD is playing when you press the **MODE** button, random playback begins when the currently playing track ends.

- 3 Press the **◀◀** or **▶▶** button to go to the previous or next random track.
- 4 Press the **MODE** button once to return to the normal playback.

Programming a playback list

You can specify the order you want tracks to play in by programming a playback list.

To program a playback list:

- 1 Press the **▶||** button.
- 2 Wait three seconds, then press the **■** button.
- 3 Press the **PROG.** button. The track number and **PROG** flash on the display to indicate the first selection.
- 4 Press **◀◀** or **▶▶** button to select the track you want to program. The track number you selected flashes on the display.
- 5 Press the **PROG.** button to store the track number into memory.
- 6 Repeat Steps 3 through 5 to program as many as 20 tracks.
- 7 Press the **▶||** button to start playing your playlist.

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- 8** To cancel the playlist, press the **■** button twice,
Or
Press the **■** button, then press and hold the **PROG.** button for three seconds.

Notes

CD playback must be stopped to program a playlist.

If you want to play your playlist repeatedly, press the **MODE** button one or more times until **ALL** appears on the display.

Using bass boost

Your CD player has a DBBS (dynamic bass boost sound) feature that lets you enhance the bass during playback.

Note

Because bass volume changes during playback, using bass boost at a high volume level may produce distorted sound. If this happens, lower the volume level until the distortion disappears.

To enhance the bass:

- 1** Slide the **DBBS** switch to the ON position. Your CD player enhances the bass.
- 2** Slide the **DBBS** switch to the OFF position to play the bass normally.

Using the anti-shock feature

When your CD player moves during playback (for example, when you are walking or in a moving vehicle), your player may be subject to bumps or vibrations.

When you press the ►|| button, the anti-shock feature turns on automatically and  appears on the display. The CD spins faster and your CD player stores the audio in memory to make sure that playback does not pause or skip. If your player is bumped or vibrated too much, the memory buffer gets full and **ESP** appears on the display. If the memory buffer is full, playback may skip or pause. After the bumping or vibration stops, your player resumes normal playback.

Notes

You should use the anti-shock feature only when necessary. Using the anti-shock feature while your CD player is running on battery power uses additional battery power. To turn off the anti-shock feature, press the **ESP** button.

The anti-shock feature will not correct playback errors if the CD is scratched or dirty.

Troubleshooting

Problem	Possible cause	Solution
No sound.	Your CD player does not have power.	Replace the batteries or make sure that the optional AC/DC power cord is plugged into your CD player and a AC power outlet.
	Playback has not been started.	Press the ► button.
	The volume is set too low.	Increase the volume.
A CD is inserted, but tracks are not displayed.	The CD is inserted upside down.	Make sure that the CD is inserted with the label side up.
	The CD is dirty.	Clean the CD.
	The CD is scratched or warped.	Use a different CD.
	Moisture has formed inside the CD compartment.	Remove the CD and leave the CD door open for about an hour to dry.
Certain sections of a CD do not play normally.	The CD is dirty.	Clean the CD.
	The CD is scratched.	Skip over the scratched sections, or replace the CD.

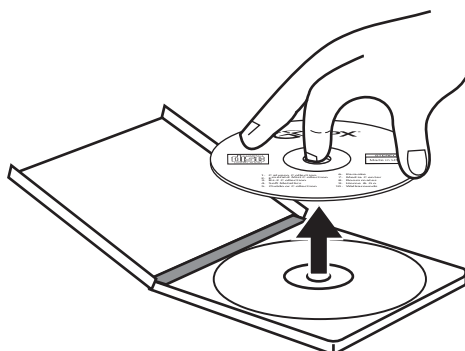
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Maintaining

Handling CDs

- To remove a CD from its case, hold it at the edges while you press down gently on the center hole.



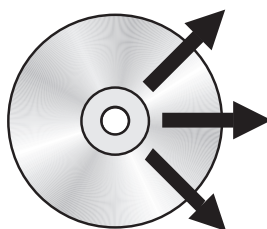
- Do not touch the shiny surface of the CD or bend the CD.
- Place the CD into the CD compartment with the label facing up.
- Store CDs in their cases when you are not using them.
- Do not store CDs in areas where they can get hot, such as an automobile.
- Do not write on the label side of the CD with a ballpoint pen because you may scratch the surface.

Cleaning CDs

A dirty CD may not play correctly.

To clean a CD:

- With a soft cloth, wipe the CD in a straight line from the center to the edge.



Caution

Do not use any solvent, such as record spray, thinner, or benzene, to clean a CD.

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Cleaning your CD player

To clean your CD player:

- Use a soft, clean cloth moistened with plain, luke-warm water to clean the exterior of your CD player.
- Never use solvents such as benzene or other strong chemical cleaners, because these could damage your CD player's finish.
- Do not let liquid drip into the inside of your CD player.

Specifications

Audio

D/A conversion	1-bit DAC, 8× over-sampling
Frequency response	20-20,000 Hz
Anti-shock	60 seconds
Wow and flutter	Below measurable limits
Number of channels	2 (stereo)
Output level	Line output: 0.6 V rms (47K Ohm) Headphone: 15 mW (32 Ohm)
Bass Boost effect (100 Hz)	+6 dB

General

Power requirements	• 2 × AA alkaline battery • DC in 4.5V jack accepts AC power adapter (center positive)
Power consumption	0.8 W (DC 3 V)

Note

Specifications and the design are subject to possible modifications without notice.