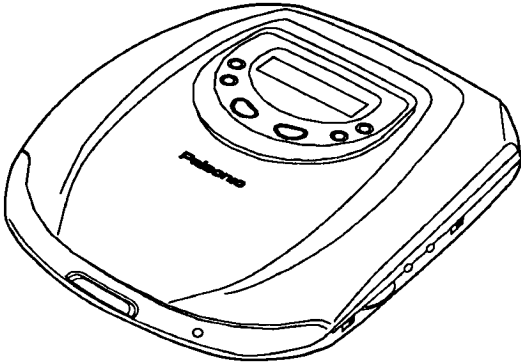


# Palsonic

## PDM-103

### Compact Disc Player

### Instruction Manual



### SPECIFICATIONS

Program Play: Up 20 memory	Dimensions: 136 mm (W) x 30 mm (H) x 150 mm (L)
Line output: 0.6V +/- 0.2V	Weight: 250g (without batteries)
Earphone: 16mW	Power requirements: DC 4.5V external and Battery, 3V "AA"
	Cell x 2 (LR6, MN1500 or Ni-Cad rechargeable battery)

\* For improvement purposes, specification and design are subject to change without notice

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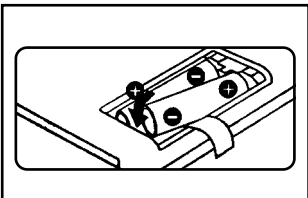
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## 1. POWER SOURCE NORMAL BATTERIES/AC ADAPTOR

### Battery Power Operation

- Open the battery compartment cover and insert two "AA" alkaline batteries inside the battery compartment. Follow the polarity as indicated in the battery compartment.
- Close the battery compartment cover.

Note: Zinc/Carbon, or Zinc/Chloride type batteries are not recommended for this unit as their use will result in extremely short playing times. Wherever possible and for economy it is recommended that the mains adaptor supplied with this unit is used.

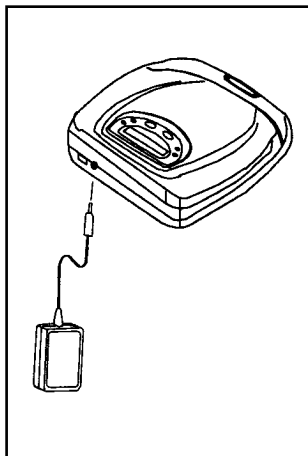


### AC Operation

- Insert the DC plug, at the end of the AC adaptor cord into the DC input jack, on the side of the unit.
- Plug the AC adaptor into a 230V AC power outlet socket.

### Note

If the AC plug of this unit does not fit in your AC outlet, a plug adaptor (not included) should be used. Consult your local dealer on the type of plug adaptor required.



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## IMPORTANCE NOTICE

- This product does not contain a separate Power On/Off switch. After inserting a disc and installing batteries/AC adaptor, simply press the Play button to switch on and play disc.
- In order to maximise battery life and provide optimum playing time this product incorporates an Auto Power Off Function. The power to the player will automatically switch off approximately 30 seconds after a disc has finished playing or when the CD lid is opened.

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### Player Operation

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## WARNING

To prevent a shock hazard, do not expose the unit to rain a moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

## SAFETY PRECAUTIONS

- 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. Unplug the unit and have it checked by qualified personnel.
- 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 lid is still opened.
- 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 adaptor from the wall outlet. Make it a practice to remove the AC adaptor by grasping the main body and not by pulling the cord.
- The unit employs a laser. The use of controls or adjustments or performance of procedures other than those specified herein may result in exposure to hazardous radiation.

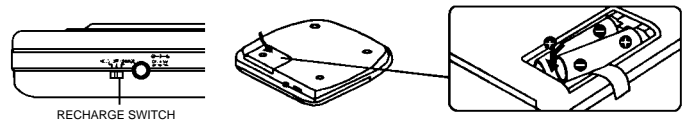
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## 2. CHARGING AND USE OF RECHARGEABLE BATTERIES

### Rechargeable Battery Operation

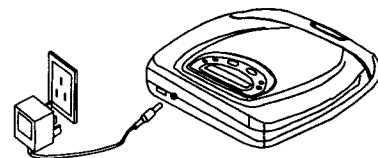
This unit can fully recharge the specified rechargeable battery, in approximately 15 hours The rechargeable batteries (NOT supplied) should be recharged before they are used for the first time because they are low in power or if they have not been used for a long period (over 60 days).

- Open the battery compartment cover and insert two of the recommended rechargeable batteries, matching polarity (12V 650mA).  
**BOTH BATTERIES MUST BE OF RECHARGEABLE NICKEL-CADMIUM TYPE, OTHERWISE THE BATTERIES MAY EXPLODE OR LEAK.**



- Plug in the AC adaptor and set the Recharge switch to ON position to start charging and Recharge indicator will light on.

USE ONLY THE AC ADAPTOR SUPPLIED WITH THE SET FOR CHARGING.



- After 15 hours. Please unplug the AC adaptor and switch the Recharge switch to the off position **DO NOT CHARGE CONTINUOUSLY FOR 24 HOURS OR MORE. DOING SO CAN CAUSE THE PERFORMANCE OF THE RECHARGEABLE BATTERY TO DETERIORATE.**

**Note** You may play DISC'S whilst charging the batteries.

- If the operating time decreases drastically when when the rechargeable nickel-cadmium batteries are properly recharged, purchase a new set of rechargeable nickel-cadmium batteries.
- When charging for the first time or after a long time, playing time may be reduced. In this case, charge and discharge the batteries several times.

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### 3. EARPHONE AND HI-FI CONNECTION

#### ■ Listening with the Earphones

Connect the plug of the stereo earphones (included) or headphone (not included) into the PHONES socket.

#### Caution

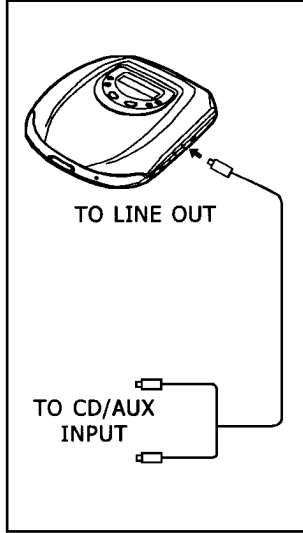
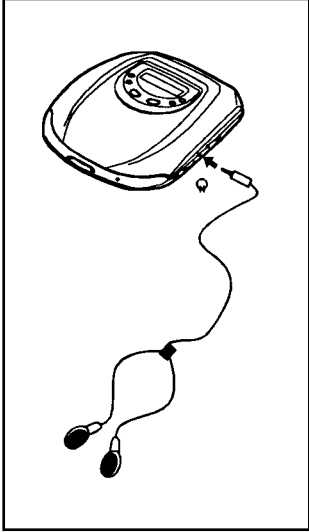
Avoid excessive volume levels and listening to sound for a long period of time when using headphones, as this may impair your hearing.

#### ■ Connecting to component audio system.

Connect the stereo connection cable (not included) into the LINE OUT socket of the unit and the CD/AUX inputs of an audio system.

#### Note

Always press the power off before making any connection between the player and another unit.



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### 4. PLAYER MAINTENANCE

#### Cleaning the Cabinet

Wipe with a soft cloth. If the cabinet is very dirty, dampen the cloth with a weak solution of neutral detergent and water and then wipe clean.

#### Cleaning the Lens

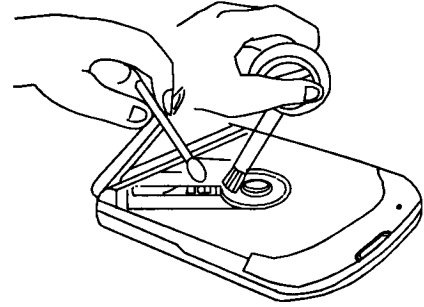
A dirty lens will cause sound skipping and, if the lens is very dirty, the CD may not work. Open the disc cover and clean the lens as follow :

#### Dust or Dry Particles

Using a camera lens brush/blower, blow on the lens couple times, then wipe it lightly with the brush to remove dust. Then, blow on the lens once more.

#### Fingerprints

If the lens cannot be cleaned by using a brush/blower, use a dry cotton swab starting in the middle and working to the outside edge.



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### 5. DISC CLEANING AND TROUBLESHOOTING GUIDE

#### Cleaning the Disc

When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out



#### Note

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

Should you experience difficulties in the use of this player please refer to the following chart before contacting your dealer or the place of purchase.

Troubleshooting Guide	
Problem	Points to Check
Player fails to function	Disc may be inserted upside down Disc not mounted correctly on chunk Dirty or defective disc Dirty pick up lens Player lid not closed Moisture/condensation, allow player to warm up to room temperature for 60 minutes AC Power to adaptor switched off Weak batteries Auto power off has occurred, press play button to restore power.
No sound from Earphones	Earphone plug is not firmly inserted into Green Phones socket. Earphones have been inserted into the Black line output socket.
No sound when played through an external amplifier	Connection is incorrect Power to external amplifier not switched on
Intermittent Sound	Dirty or defective disc Dirty pick up lens Player is subject to excessive vibration or shock Low battery power Poor Earphone connection

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### 6. PRODUCT SPECIFICATIONS

#### PICK- UP

System	Compact disc digital audio system
Laser diode	Material: GaAlAs
Properties	Wave length: $\lambda = 780\text{nm}$ Emission duration: continuous Laser output: $<44.6\mu\text{W}$
Error correction	Cross-interleave Reed-solomon code

#### AUDIO

D/A conversion	16 bit DAC eight times over sampling
Frequency response	20-20,000Hz ( $\pm 1/3\text{dB}$ )
Wow and flutter	Below measurable limits
No. of channels	2 channels (stereo)
Output level	Line output: 600Vrms (47K $\Omega$ ) Headphone: 16mW (32 $\Omega$ )
Bass boost effect (100Hz)	+6db

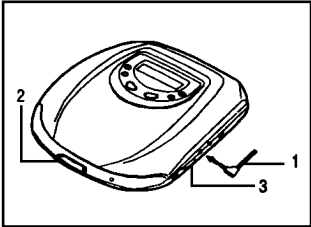
Power requirements	2 x LR6 "AA" alkaline battery - DC in 4.5V jack accepts AC power adaptor (centre positive)
Power consumption	0.8W (DC 3V) UNDER NORMAL CONDITION
Dimension	Approx. 136(W) x 30(H) x 150(L) mm
Weight	Approx. 250g not battery

#### ACCESSORY

Battery	Not Included
---------	--------------

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## 7. BASIC DISC PLAY



1. Connect the earphone to the PHONES socket.
2. Press the OPEN button to open the CD compartment lid.
3. Adjust the VOLUME to minimum.
4. Insert the disc with the label side Facing up.
5. Close the lid securely until a click is heard.
6. Press the PLAY button to start playing.

**To Emphasise the bass sound**  
Set the BASS BOOST switch to the ON position.



**Note**

The bass boost performance will be dependent on the VOLUME control setting.

**Turning Power on and off**

This unit has no ON/OFF switch. To turn on and off, press the following buttons.

To turn on: Press **▶||** PLAY/PAUSE (playback starts).

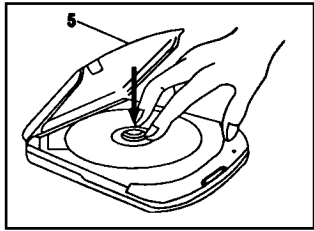
To turn off: Press **■** STOP button once to standby mode.  
Press **■** STOP button twice, it will turn off the power immediately.

**Auto Power-off function**

Then the unit is stopped (standby mode) for approximately 30 seconds, the power is automatically turned off.

**HOLD OPERATION**

During the playback, turn HOLD switch "ON" to avoid any interruption whilst press CD control button.



**Remove the Disc**

Hold the edge and gently press the centre pivot as illustrated, the pick up the disc,



**CAUTION:**

Wait for the disc to stop rotating before pressing the OPEN button.

**Note**

This unit can play 3" (8cm) single CD's without an adaptor. Do not use a CD single adaptor for these discs.

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## 8. LCD DISPLAY INFORMATION

**When the **||** is pressed**

The total number of tracks and total playing time in the disc will be displayed after 2 seconds.



**During PLAY mode**

The total number of tracks on the disc are played



**During PAUSE mode**

The track playback is paused, the elapsed time is flashing.



**Note**

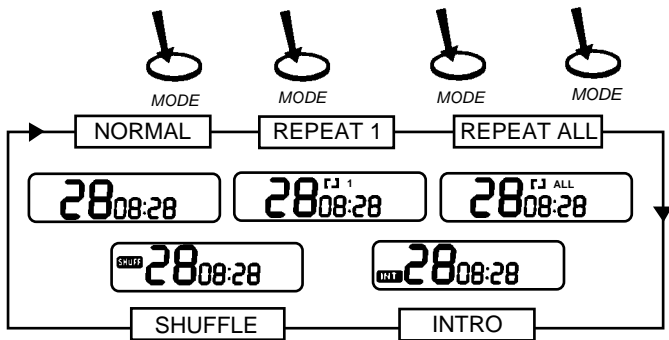
A flashing  indication appears on the display when the batteries need to be changed.



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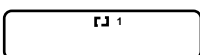
## 9. REPEAT/PLAY MODES

Every time the MODE button is pressed. The corresponding mode appears in the display window.

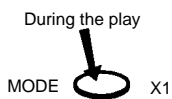


**NORMAL PLAYBACK**

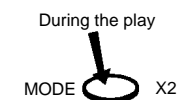
Play the whole disc.



Shown on the LCD display. The current track on the disc will be repeated.



Shown on the LCD display. All tracks on the disc will be repeated.



Note: In normal modes none of the above symbol show in the display.

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## 10. INTRO SCAN AND RANDOM PLAY

**INTRO SCAN**

Press mode button to select intro scan play.

During the play



CD player now is ready to play the first 10 seconds of each track on the disc



Press **▶||** to start playing "INTRO" scan.

During the play



**SHUFFLE**

Enables all the tracks on a disc to be played in a Random sequence.

During playback SHUFF indicator will show on the display and disc will play in random order after the current track had been played.

For example : If "SHUFFLE" is selected whilst playing track 8, the random function will commence once track 8 has ended.

When all tracks on a disc have been played, the player will automatically stop and power down in approx. 30 seconds to preserve battery life.



During the play



Press MODE button twice to return to NORMAL play mode

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## 11. PROGRAMMED TRACK PLAY

### PROGRAMME

This allows selected tracks on the disc to be played in any desired order.

### To set the programme play

\* programmes can be set in the STOP mode or normal play mode.

1. Press the PROGRAM button when the unit is in the stop mode a normal play mode until **PRG** shows on the display.  
\* The track number and **PRG** indicator flashing appear on the display.
2. Press **◀◀** or **▶▶** to select the desired track.
3. Press the REPEAT button to enter the track into memory. Programme No. will be increment one step.
4. Repeat step 2 and 3 to program the order of more tracks up to 20 tracks can be programmed into memory.
5. Press **▶||** to start the programme play.
6. To erase the programme, simply press the **■** STOP button twice.

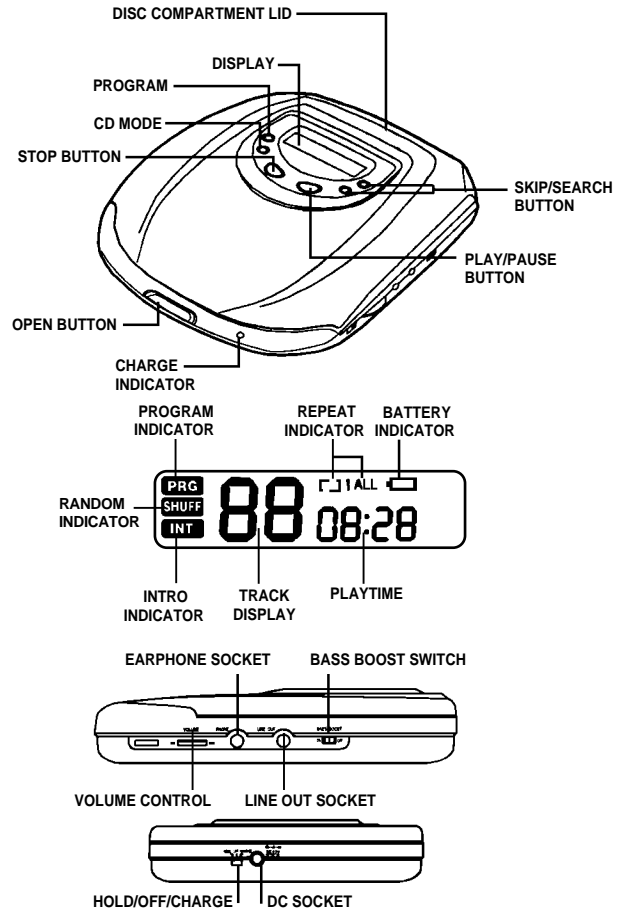


During the play



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## 12. LOCATION OF CONTROLS



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## 13. SKIP AND SEARCH FUNCTIONS

### Locating a Particular track

To go back to the beginning of the current or a previous track	Press <b>◀◀</b> lightly and repeatedly
To go to the beginning of following tracks	Press <b>▶▶</b> lightly and repeatedly

### Locating a Particular Point in a track

To search at a high speed	Keep <b>◀◀</b> depressed
To search forward at a high speed	Keep <b>▶▶</b> depressed

Low level audio will be heard during the search process to assist in locating the correct point in the track

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