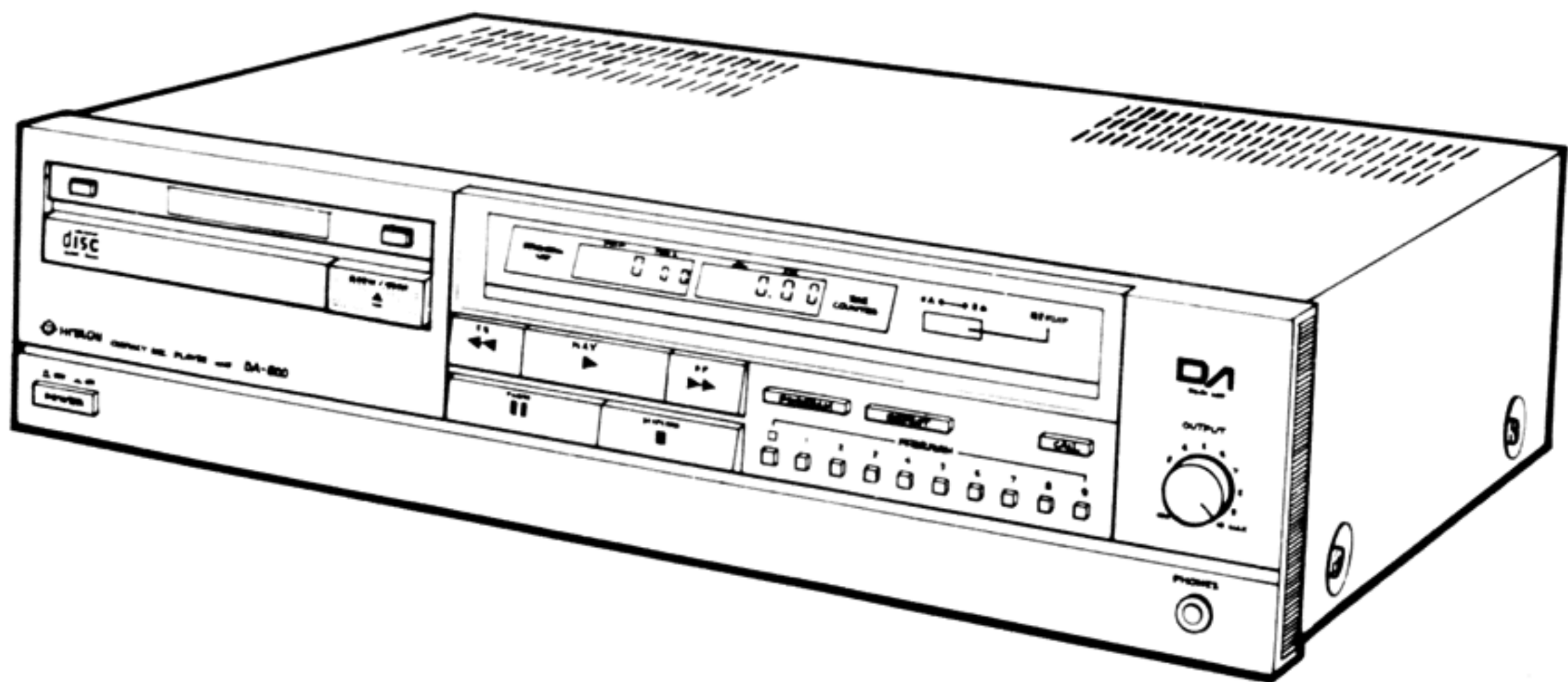


**COMPACT DISC PLAYER**

**Model**

**DA-800**

**INSTRUCTION MANUAL**



 **HITACHI**

## **SAFEGUARD**

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. Improper use can result in potential electrical shock or fire hazards. In order not to defeat the safeguards, observe the following instructions for its installation, use and servicing.

**CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

## **FEATURES**

The DA-800 is a compact disc player incorporating a semiconductor laser pickup for playing compact discs with high-density digitalized sound signals. It gives superior sound quality and operation when compared to the conventional analog systems.

### ■ **Contactless Signal Detection by Semiconductor Laser Pick-up**

By means of a semiconductor laser pickup, the digital signals are read without contacting the disc. As a result, there is no friction or wear to the pickup or disc.

### ■ **High Performance Sound Reproduction**

Many Hitachi original semiconductors, including signal processing MOS-LSI, microcomputer, etc., have been developed for use in this unit.

- **SN Ratio of 95 dB**

This signal-to-noise ratio has been improved about 30 times over that of analog systems. There is no scratch noise and tape hiss.

- **Dynamic Range of 95 dB**

The playback range from pianissimo (pp) to fortissimo (ff) is broad, with the ability to playback dynamic sounds with depth.

- **Distortion Ratio of 0.003%**

Achieves a world of clear, transparent sound.

- **Wow and Flutter of less than 0.001%**

This is below the range of measurable values. Naturally this far exceeds the limits detectable by human ears.

- **Audio Circuitry Seeks for Sound Quality**

Exclusive audio circuitry parts are selected with critical care. By means of a construction which fully takes into consideration sound quality, this unit gets the finest possible performance from the compact disc.

### ■ **Horizontal Front Loading System**

The disc is placed on the horizontal disc table, and by pressing a single button, auto loading is accomplished. With a small player size of 43.5 cm (W) x 11 cm (H), combination with other components is free and easy.

### ■ **Luxurious Functions**

- **Random Memory Track Search Function**

You can select the tracks you wish from the disc, and play them automatically in any desired order. Memory has a maximum capacity of 15 programs.

- **Auto Digital Random Program Selector (Auto DRPS)**

In the Play or Pause mode you can easily skip to any track on the disc.

- **Self Program Search System (SPSS)**

When you wish to listen to the present program again from the beginning, or when you wish to skip to the next, this convenient feature allows you automatic program selection with one touch.

- **Manual Search**

You can quickly listen through the disc and find the selection you want to hear.

- **Index Search**

By using the index search system, you can quickly locate the passages for playback programming.

- **Repeat Playback**

This function repetitively plays back all programs or those selected in the random memory, or only those parts you desire.

- **High-Speed Access**

Access from track to track is all performed at high-speed access, allowing faster and smoother operation.

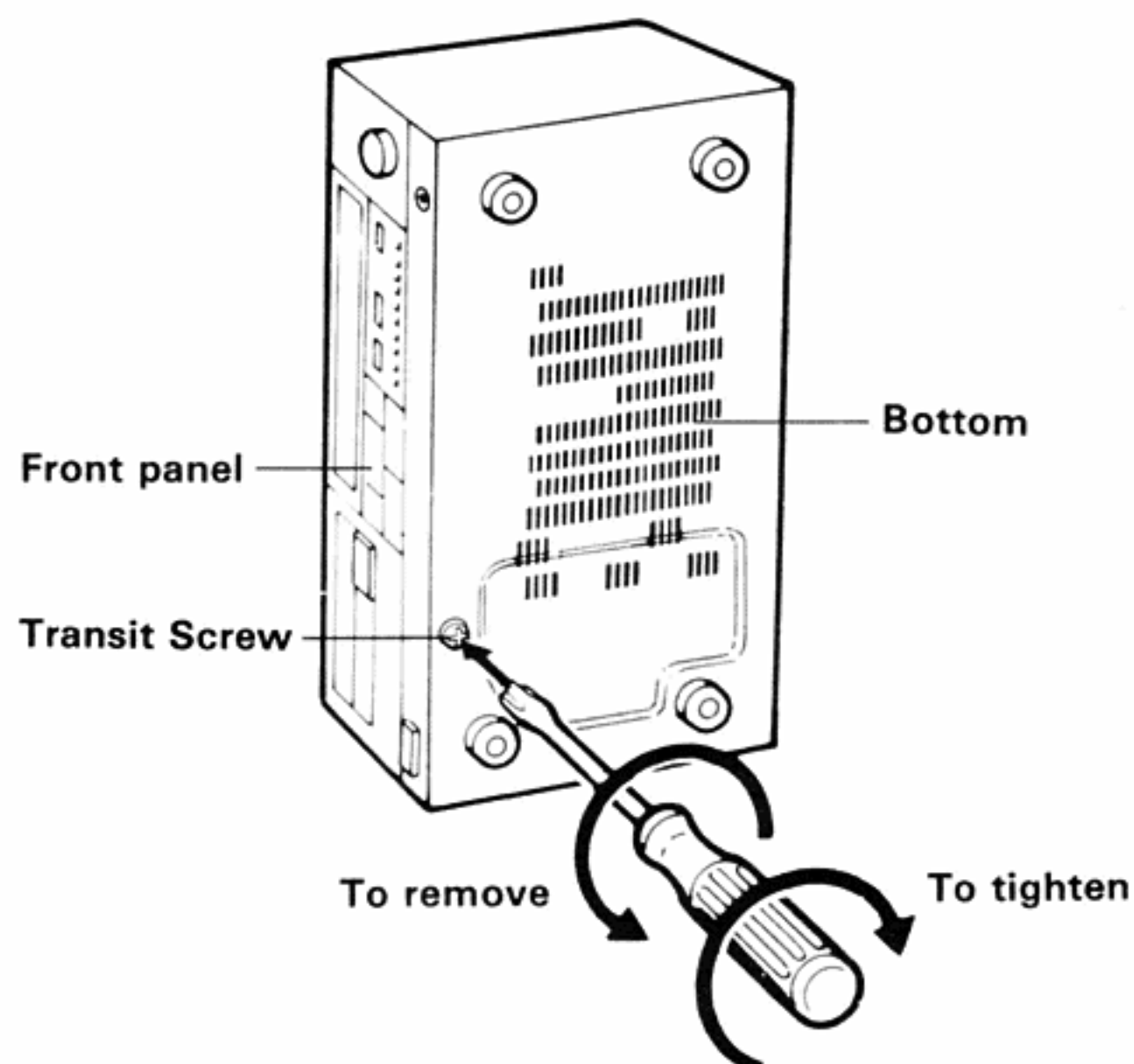
- **Track Number, Index, and Playing Time Indicators**

- **Headphones Terminal with Level Control**



## BEFORE USE (Remove Transit Screw)

- **Transit Screw**  
This screw holds the laser pick-up so that it does not move during transport. The transit screw is located on the bottom of the player.
- **Before Using the Unit**  
Before connecting the power, be sure to turn the player on its right or left side, and remove the transit screw; keep it in a safe place for later use.
- **When Transporting the Unit**
  1. Turn on the power, open the drawer once and make sure that there is no compact disc in, then shut the drawer again. (By this, the laser pickup will be in its secure position.)
  2. Turn off the power, and stand the player on its side, then insert and tighten the transit screw.



## PARTS AND THEIR FUNCTIONS (See figure 2 on page 44)

- ① **Power switch**
- ② **Drawer**
- ③ **Drawer Open/Close button**  
Press this when loading or unloading a disc.
- ④ **Fast back button (◀◀)**  
Press this button to reverse playback quickly.
- ⑤ **Pause button (■)**  
When this button is pressed during playback, the play will come to a temporary pause, and the indicator for this button will light. When the play button ⑥ is pressed, the unit will be released from the pause mode and once again begin playback.
- ⑥ **Play button (▶)**  
This button is pressed to begin disc playback. During playback the indicator will light.
- ⑦ **Stop/Clear button (■)**  
Press this button to stop play or to clear the program.
- ⑧ **Fast forward button (▶▶)**  
Press this button for quick forward playback.
- ⑨ **Program number buttons (0-9)**  
These buttons are used when programming with random memory track search, or Auto DRPS.
- ⑩ **Headphones jack**  
Connect your headphones to this jack for private listening.
- ⑪ **Output level control**  
This is used when adjusting the output level to the headphones jack and the output terminal.
- ⑫ **Call button**  
This button is pressed to check the programmed numbers, or during playback, to check the next program to be played.
- ⑬ **Repeat indicator**  
This indicator lights during normal repeat play, and blinks during repeat play between two designated points.
- ⑭ **Repeat button**  
This button is pressed when performing repeat play.
- ⑮ **Program button**  
This button is pressed when memorizing programs for random memory track search.
- ⑯ **Time counter**  
This displays playing time in minutes (MIN) and seconds (SEC).
- ⑰ **Index indicator**  
This displays the index number.
- ⑱ **Track number indicator**  
This displays the track number being played, or the track numbers of programmed selections.
- ⑲ **Output jacks**  
These are connected to the amplifier's input terminals (CD, AUX, or TAPE PLAY). Output level can be adjusted by Output level control ⑪, so you can adjust the volume level to match that of other audio components.
- ⑳ **Antishock switch**  
**This switch should normally be set in the "OFF" position.**  
When using the unit in a location with large amounts of vibration, or when playing a disc with large eccentricity, sound skipping may occur. In that case, set the antishock switch to the "ON" position. However, if a scratched disc is played with the switch in the "ON" position, sound skipping may occur more frequently.
- ㉑ **Power supply cord**

## CONNECTIONS (See figure 2 on page 44)

1. Connect the unit's OUTPUT left and right jacks with the CD/AUX or TAPE PLAY left and right input jacks on the amplifier using the accessory connecting pin cord.  
The output level can be adjusted by the output level control on the front panel.
2. Connect the power cord to the auxiliary power outlet on the rear panel of the stereo amplifier or to a household AC outlet.

### NOTES

- Switch off the power to the components when connecting or disconnecting the pin cords.
- Do not connect to the PHONO jacks.

## DISC LOADING

### ■ Opening

The drawer cannot be opened or closed unless the power is switched on.

1. When the Power switch ① is turned ON, the Track number indicator ⑱, Index indicator ⑳, and Time counter ㉑ will flash, and then light.
2. When the Drawer Open/Close button ③ is pressed, the Track number indicator ⑱, Index indicator ⑳, and Time counter ㉑ will flash for about 5 seconds, and then the drawer will open.

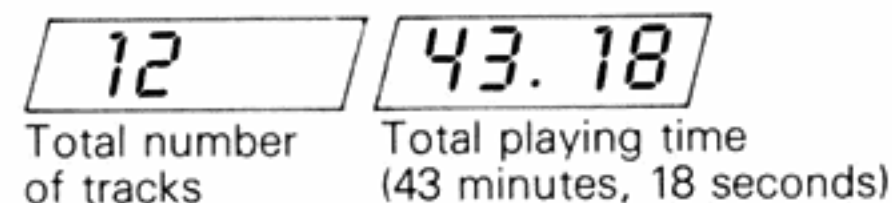


### ■ Disc loading

1. Holding the disc so that your fingers do not touch its surface, place it on the Drawer ② with the label side up. Check to make sure that it is resting securely on the four corner catches.
2. When the Drawer Open/Close button ③ is pressed, the drawer will close, and the disc will be loaded.

3. The loaded disc will rotate for several seconds while the player reads its contents, and will then come to a stop.

The Track number indicator ⑱ will display the total number of tracks, and the Time counter ㉑ will display the total playing time.

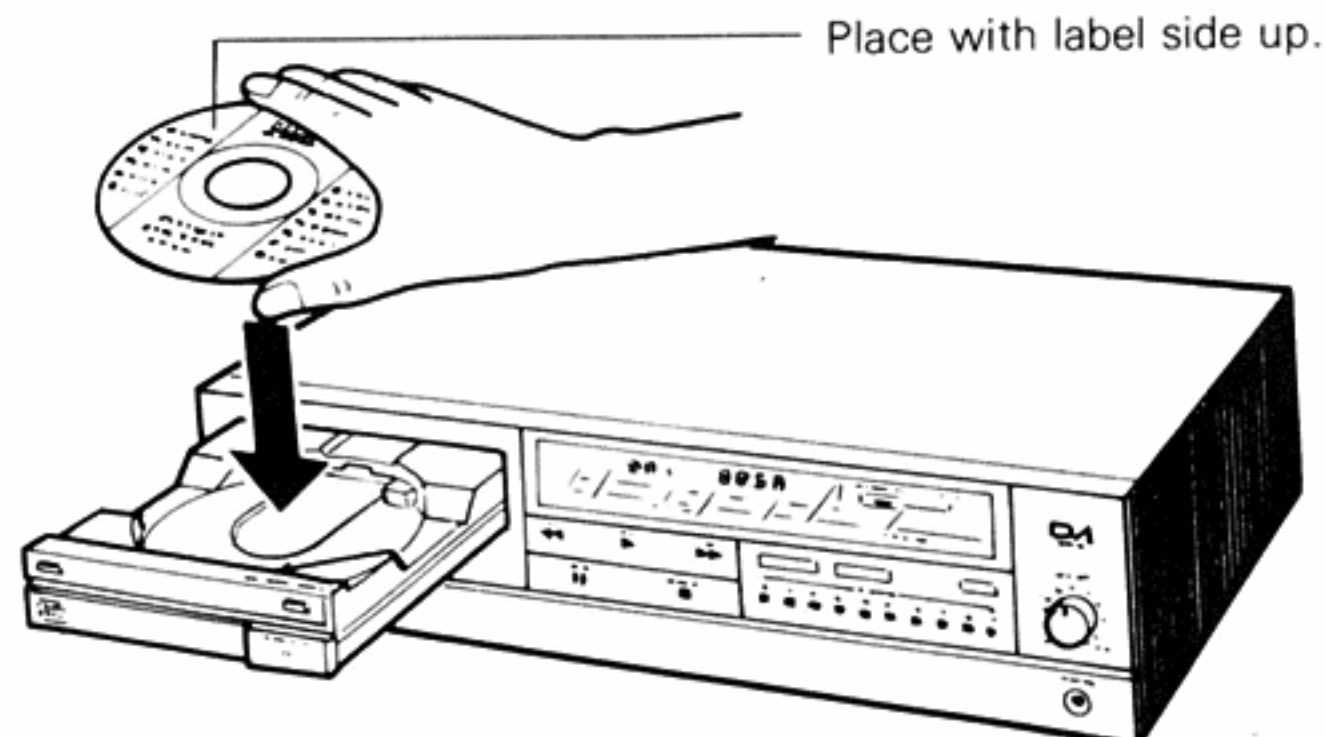


Whenever the disc is in the stop mode, these indicators will display the total number of tracks and total Playing time.

- After inserting the disc in the drawer, if the Play button (▶) ⑥ is pressed, the drawer will close, and play will begin.
- If the power is turned on, whenever the Drawer Open/Close button ③ is pressed, the drawer will open.

### CAUTION

- Press the Drawer Open/Close button if you find that your fingers or any objects are stuck or wedged in the Drawer. The drawer will open.
- Do not insert objects into the disc drawer. It could result in malfunction.
- Do not force the drawer open or close by hand.
- When not using the player, keep the drawer closed to prevent the entry of dust and dirt.
- If the Drawer Open/Close button ③ is pressed while the drawer is in the process of opening, the drawer will not close.





# DISC PLAY

1. Press the Power switch ①. Then press the Drawer Open/Close button ③ to open the drawer and load the disc.
2. Once the disc has been loaded, press the Drawer Open/Close button ③ to close the drawer.

## NOTES

- The loaded disc will automatically rotate for several seconds while the player reads its track number, playing time, etc., and then stop. Only perform the various operations for playing after the disc's total number of tracks and total playing time is displayed on the indicators.
3. Press the Play button (▶) ⑥ to start play.
  4. Press the Pause button (■) ⑤ when a temporary halt is desired during disc play.
  5. Press the Stop/Clear button (■) ⑦ to stop play. The program is cleared at the same time.
    - When the disc comes to the end of its play, it will automatically stop.

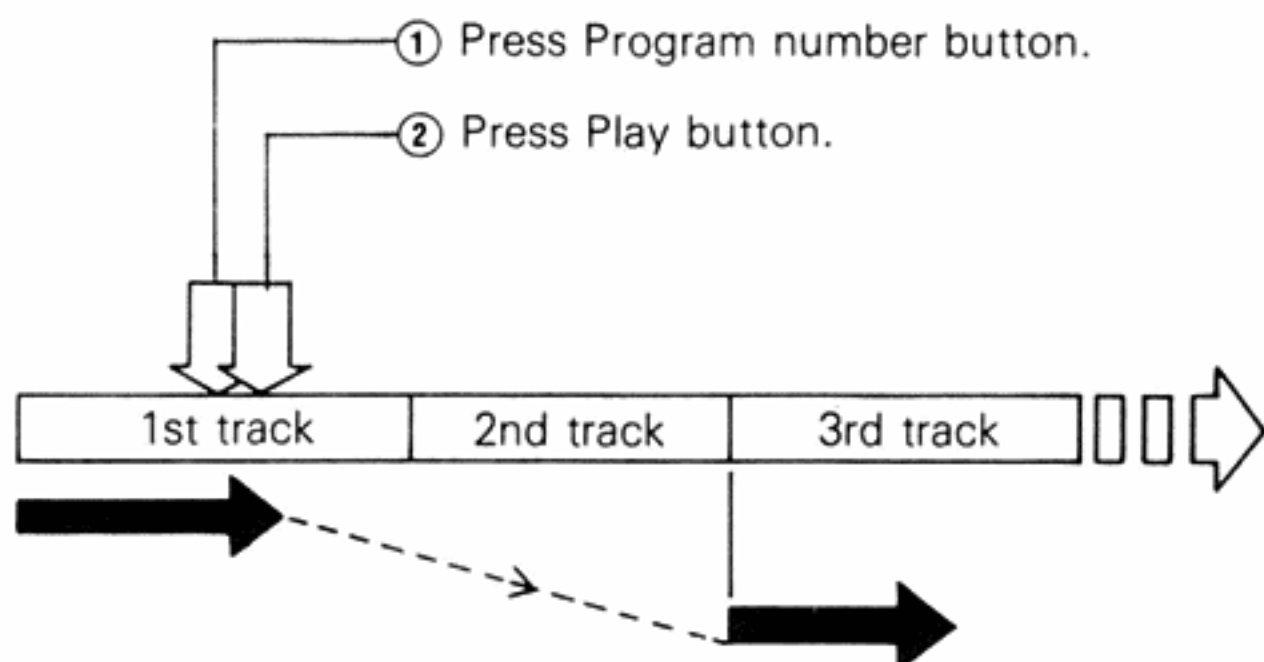
- If the total number of tracks and the total playing time is not displayed after disc loading, check to make sure you have not placed the disc upside down, and try to load the disc again.
- If playback does not begin even after pressing the Play button ⑥, try pressing the Stop/Clear button (■) ⑦ once, then operate again for playback.

## 1 Auto DRPS

### (Auto digital random program selector)

- If you perform the following operation before beginning playback, you can begin listening from the track of your choice. In this case, the track number of the selected track will be displayed until the play button is pressed.
- If the following operation is performed during playback, you can change to the track of your choice. In this case, the track number of the selected track will be displayed for approximately 5 seconds.
- Select the track of your choice with the Program number buttons ⑨, and while the number of the selected track is displayed in the Track number indicator ⑱, press the Play button (▶) ⑥. Playback will begin with the track you have selected.

3 .



## 2 SPSS

### (Self-program search system)

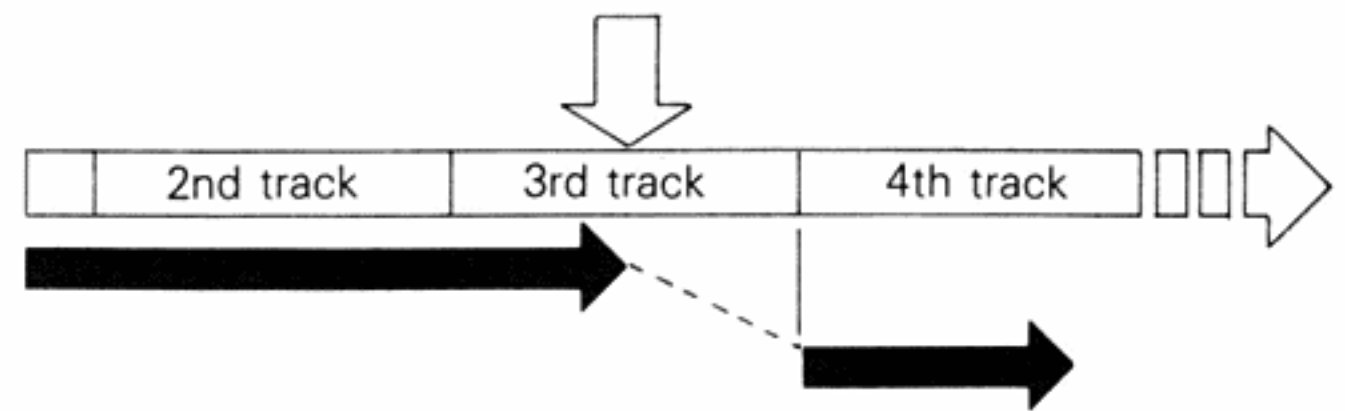
#### ■ Listening to the track following that presently being played

During playback, if the Fast forward button (▶▶) ⑧ is pressed while you press the Play button (▶) ⑥, playback will move to the next track.

4 .

Only the track number of the next track will be displayed (several seconds).

Press the fast Forward button while pressing the Play button.



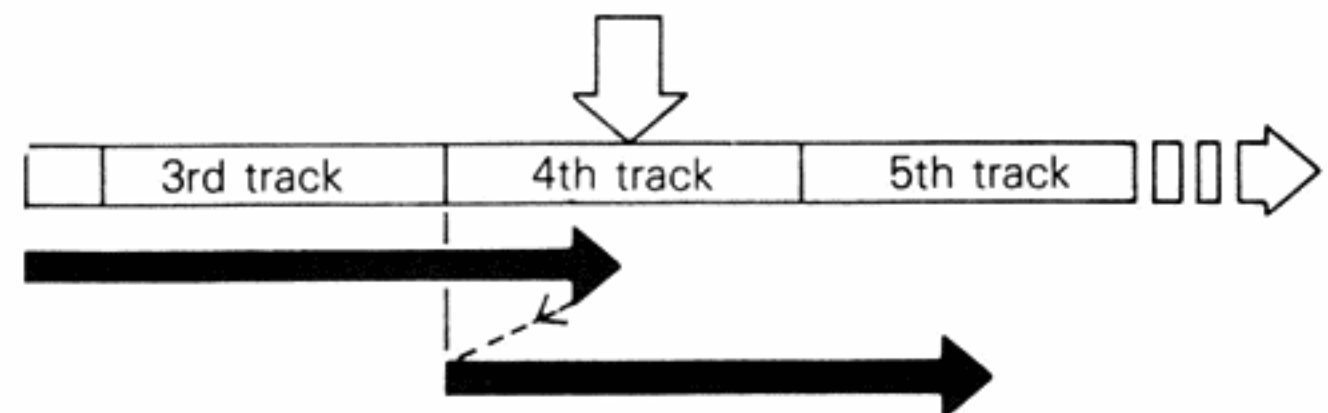
#### ■ Listening to the present track again

During playback, if the Fast back button (◀◀) ④ is pressed while you press the Play button (▶) ⑥, playback will move to the beginning of the track presently being played.

4 .

Only the track number of the present track will be displayed (several seconds).

Press the Fast back button while pressing the Play button.



### 3 Program play with random memory track search

The random memory track search function searches for the desired tracks on the disc in the desired order and plays them automatically.

1. Load the disc and start the programming after the disc has stopped rotating.
2. First select the desired track numbers using the Program number buttons (0–9) ⑨ and then press the Program button after each selection ⑮. The number of the selected track will be indicated on the Track number indicator ⑱.

(Example)

To select the third track, press the button 3, and then the Program button ⑮; to select the twelfth program, press 1 and 2 and press the Program button ⑮. You can program a maximum of 15 selections.

(Example)

To program the third track and the twelfth track



3. Press the Play button (▶) ⑥. The tracks are automatically played in the programmed order.

#### Possible manual operations during Program play:

During programmed play by random memory track search, you can still perform Auto DRPS, SPSS, pause, manual search etc. When these operations are performed, the programmed contents will not be erased, so even if you perform Auto DRPS (for example), when that selected track ends, the playback will automatically return to its programmed selections.

#### ■ Displays with random memory track search

- During programming, the track number of the selected track only will be displayed on the Track number indicator ⑱.

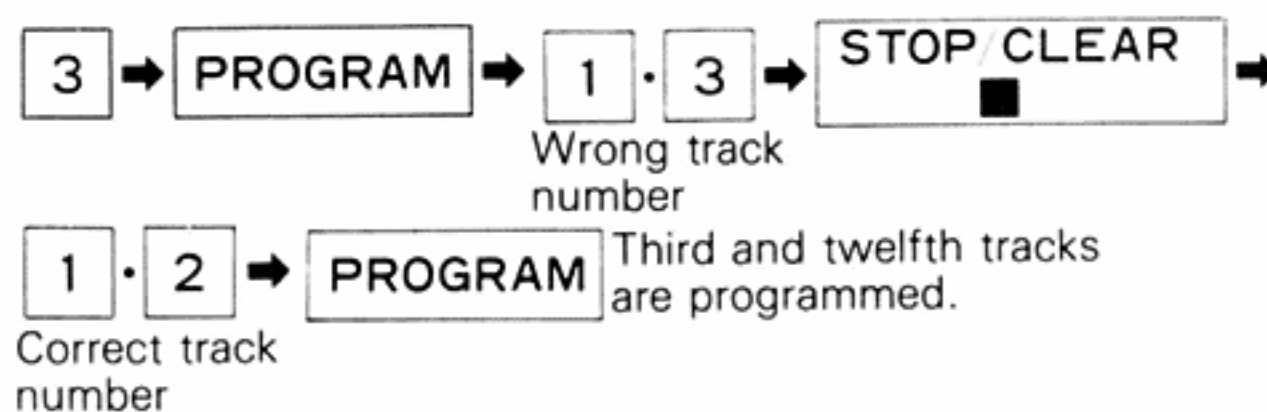


- During program playback, the Indicators ⑱, ⑰, will display the track number of the track being played, and its index number. The Time counter ⑰ will display the elapsed playing time.



#### ■ Clearing the program contents during programming

During programming, if you should mistakenly press a Program number button ⑨, press the Stop/Clear button (■) ⑦ and reselect the correct track number.



#### ■ Checking the program contents

When you wish to confirm the numbers of the selections you have programmed, press the Call button ⑫. The Track number indicator ⑱ will display the programmed selections in order, for about 2 seconds each.

#### NOTES

- If the Call button is pressed during playback or during the pause mode, the track number of the next program to be played will be displayed.
- If the Call button is pressed during the playback of the last programmed selection, the display will show "0".

#### ■ Clearing all the programs

When you wish to clear all selections programmed, press the Stop/Clear button (■) ⑦. When the programs are cleared, the Track number indicator ⑱ and Time counter ⑰ will display the total number of tracks and the total playing time.

#### NOTES

- When all programmed selections have been played, the program will be cleared.
- If the Stop/Clear button ⑦ is pressed during program play, the playback will be stopped and the program will be cleared.

### 4 Repeat play

Repeat play can be performed of all the tracks on the disc, or only those tracks programmed. In addition, you can perform repeat play between any two designated points on the disc.

#### ■ When you wish to repeat all tracks, or only programmed selections

- When the Repeat button ⑭ is pressed, the Repeat indicator ⑬ lights to indicate repeat play. Unless the random memory track search function is used, all the tracks will be played repeatedly until the Stop/Clear button is pressed. If the random memory track search function is used, only those tracks which have been programmed will be played repeatedly.
- When the Stop/Clear button (■) ⑦ is pressed, repeat play is cancelled, and the Repeat indicator ⑬ will go out.



## NOTES

- If the Repeat button (14) is pressed during normal playback, repeat play of all programs on the disc will commence.
- Even if the Repeat button (14) is pressed during program play, repeat play will not commence.

### ■ Repeat play between two points

- During playback, press the Repeat button (14) at the point at which you wish repeat play to begin; press the Repeat button (14) again at the point at which you wish repeat play to end. The playback will return to the first point at which you pressed the Repeat button, and repeat play will begin there.
- The Repeat indicator (13) will light the first time you press the Repeat button, and it will flash the second time you press the button, thus indicating "Repeat play between two points".
- To cancel "Repeat play between two points", press the Repeat button (14) once again. The Repeat indicator (13) will go out, and the unit will be switched to the normal playback mode.

## 5 Manual search

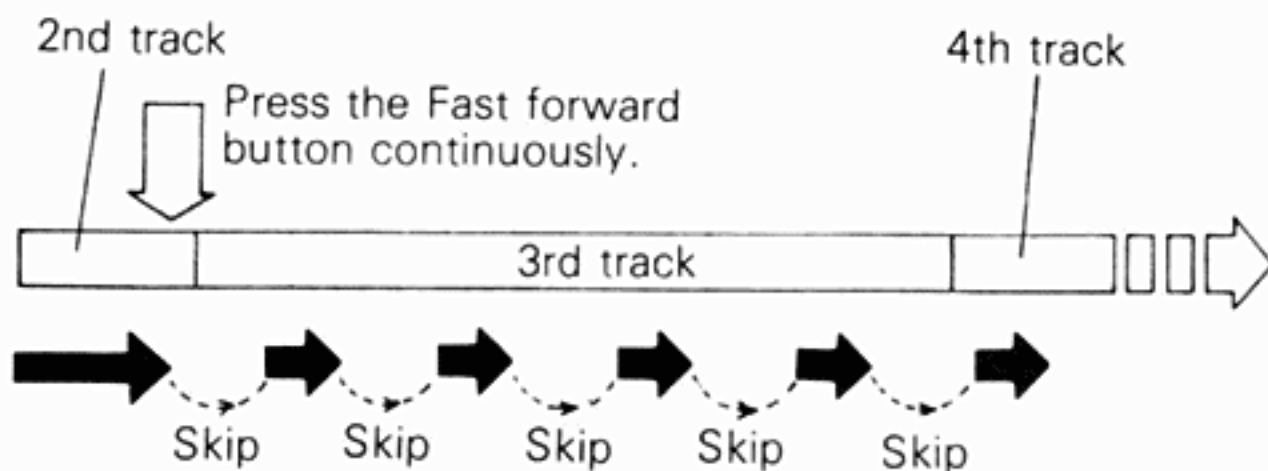
With this function, you can listen quickly to chosen selections. It is very convenient for searching for a chosen portion of a long program and beginning playback from that portion.

### ■ Fast forward manual search

During playback, if the Fast forward button (▶▶) (8) is pressed continuously, playback will be advanced quickly during the time the button is held depressed.

3 03 2.31

The track number, index number, and elapsed time will be displayed.

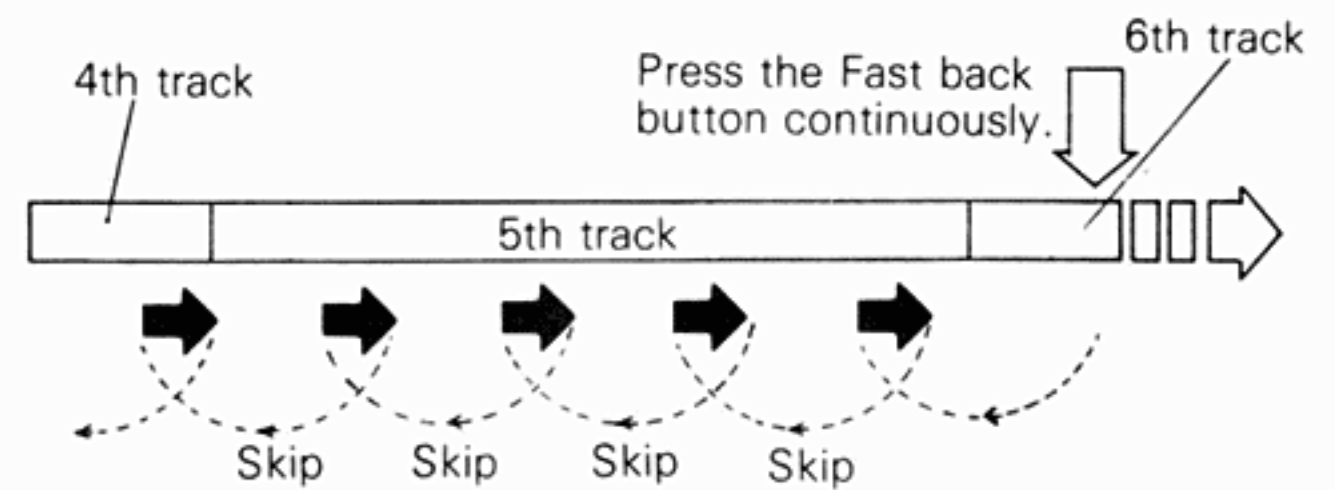


### ■ Fast back manual search

During playback, if the Fast back button (◀◀) (4) is pressed continuously, playback will be sent backwards at high speed during the time the button is held depressed.

5 01 1.45

The track number, index number, and elapsed time will be displayed.



- During the manual search operation, when you have found the part of the track you wish to hear, release the Fast forward button (▶▶) (8) or the Fast back button (◀◀) (4) and normal playback will begin from that point.
- If the manual search operation is begun from the pause mode, you can search for your desired location using the Time counter alone, without any sound being produced.

## 6 Index search

With this function, you can perform selection and search of portions of a track divided into index numbers.

Using the Program number buttons (9), select your chosen track and index numbers, entering two digits for each number. When the Play button (▶) (6) is pressed, play will begin from the designated index numbers.

(Example 1)  
To select index number 2 of track number 3, press;

0 · 3 · 0 · 2

(Example 2)  
To select index number 5 of track number 12, press;

1 · 2 · 0 · 5

- Select track number and index number using two digits each.

03 02 .

Your chosen track number and index number will be displayed.

## Index

- Indexing means that a single track has been divided into even smaller divisions, and each such division has been assigned an "index number." Before playing, consult the instructions for your particular disc.
- If you press the Play button (▶) ⑥ after selecting an index number not listed on your disc's instructions, the player will automatically stop.

## 7 Pause-standby

By using the four following methods, you can search for tracks or parts of tracks and place the unit in the pause (standby) mode. When the Play button (▶) ⑥ is then pressed, playback will begin.

### ■ Searching by Auto DRPS

1. Select the track number you wish to hear using the Program number buttons ⑨.
2. Press the Pause button (■) ⑤. The unit will search for the selected track and enter the pause mode.

### ■ Searching for the first track on the disc

After loading the disc in the player, merely press the Pause button (■) ⑤. The player will search for the first track on the disc and enter the pause mode.

### ■ Searching by random memory track search

1. Perform random memory programming.
2. Press the Pause button (■) ⑤. The player will search for the first track entered in its memory and enter the pause mode.

### ■ Searching by index search

1. Perform index search operation.
2. Press the Pause button (■) ⑤. The player will search for the selected index portion and enter the pause mode.

## MAINTENANCE

### ■ Treat disc surfaces carefully

Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs. To clean-off, use a soft cloth. Do not use a hard cloth since this will mark the disc.

### ■ Clean cabinet and panels when dirty

Clean off dirt on the surfaces with a dry cloth. Never use thinners, benzene or alcohol since these will damage the surface finish.

## TROUBLESHOOTING

Trouble	Cause	Remedy
Power is turned on, but indicators do not light.	1. Power plug is not connected securely.	1. Insert the power plug into the power outlet securely.
You attempted to close Drawer by hand, but it stopped part way.	1. Attempting to close the Drawer forcibly caused the drawer operation to not work properly.	1. Use the Drawer Open/Close button to open and close the Drawer properly.
Disc is loaded, but total number of programs is not displayed.	1. Disc is loaded upside down. 2. Disc is dirty. 3. Disc used is nonstandard.	1. Load the disc correctly. 2. Clean the surface of the disc. 3. Replace the disc.
Play button (▶) is pressed, but play does not begin.	1. Transit screw has not been removed. 2. Disc is dirty. 3. Disc has scratches or is warped.	1. Remove the transit screw. 2. Clean surface of disc. 3. Replace disc.
No sound is produced.	1. Connector pin-cords are not connected. 2. Output level control is turned down.	1. Connect the connector pin-cord to the output terminals of the player and the input terminals of the amplifier. 2. Turn the control clockwise (○).
Sound is distorted.	1. Connections to amplifier are wrong. 2. Amplifier output is set too high and sound is being clipped.	1. Connect player to amplifier correctly. 2. Turn down the amplifier output volume.
A particular spot on the disc does not play correctly (sound cuts out, or same spot is repeated).	1. Disc has scratch or other damage. 2. Disc is dirty.	1. Use the Fast forward button to pass over the part scratched. 2. Clean the surface of the disc
Button is pressed, but operation is not performed correctly.	1. Operation searching for play position does not match with button operation. 2. Disc is scratched or dirty.	1. Try pressing the Stop/Clear button once and then attempt play again. 2. Try turning the power off and then on again; remove the disc and look for scratches or dirt and then attempt playback again.



# PRECAUTIONS FOR USE



- Discs which can be played on this player have the following mark on them:
- During playback, if the player is subjected to a sudden shock or jolt, the speed of rotation may suddenly change, or some noise may be produced. This is not a malfunction.
- If the player is operated while you are receiving an FM/AM radio broadcast, you may hear noise on the radio broadcast. In this case, turn the player's power switch off.
- If other audio components or their connecting cords are installed near this player, you may hear a humming sound. In this event, try changing the location of the other components or their wiring.
- Whenever moving the player, be sure to first remove the disc from it. If the player is moved with a disc loaded, the disc may be damaged.
- The DA-800 has a wide dynamic range. As a result, if you turn your amplifier's volume up too high during soft (low volume) parts of a program, your speakers may be damaged when the dynamic range of a sudden loud passage is produced.
- Do not move the player suddenly from a very cold room into a warm room. When a chilled player is moved suddenly to a warm location, moisture condensation may form on the pickup lens, preventing proper operation. In this case, wait 30 minutes before resuming play.
- Do not place foreign objects in the disc drawer and attempt to operate the drawer control (Open/Close) function. It may cause damage to the mechanism.
- Do not store discs in high-temperature, high-humidity locations. The discs may develop warps and become unable to play. Also, discs with moisture on them may be unplayable. Wipe any moisture off with a soft, dry cloth before using.
- When installed in an enclosed place, this appliance may malfunction due to poor ventilation. Never place this appliance on an amplifier which generates heat.

# SPECIFICATIONS

<b>AUDIO</b>		Object lens drive system	2-dimensional parallel drive
Number of channels	2	Optical source	Semiconductor laser
Frequency response	5–20,000 Hz $\pm$ 0.5 dB	Wavelength	790 nm
Dynamic range	95 dB	<b>GENERAL</b>	
Signal-to-noise ratio	95 dB	Power requirements	AC 120 V, 60 Hz (For Canada) $\sim$ 220 V, 50 Hz (except Canada)
Harmonic distortion	0.003% (at 1 kHz)	Power consumption	23 W
Separation	94 dB (at 1 kHz)	Dimensions	435 (W) x 110 (H) x 264 (D) mm
Wow/flutter	Less than measurable limits ( $\pm$ 0.001% W. peak)	Weight	5.9 kg
Output voltage	2.5 V	<b>ACCESSORIES</b>	Connecting pin cords
<b>DISCS USED</b>	Compact Disc		
Playing time	Approx. 60 minutes/one side (Max. 79.8 minutes)		
Diameter	120 mm		
<b>SIGNAL FORMAT</b>			
Sampling frequency	44.1 kHz		
Quantization number	16-bit linear/channel		
Transmission bit rate	4.3218 Mb/sec		
<b>PICK-UP</b>			
System	Object lens drive system optical pick-up		

Specifications and design may be changed without notice for improvement.

# TECHNISCHE DATEN

<b>AUDIO</b>		Objektivantriebssystem	2-dimensionaler Parallelantrieb
Zahl der Kanäle	2	Lichtquelle	Halbleiter-Laser
Frequenzgang	5–20.000 Hz $\pm$ 0,5 dB	Wellenlänge	790 nm
Dynamikumfang	95 dB	<b>ALLGEMEIN</b>	
Signal-Rauschabstand	95 dB	Stromversorgung	120 V, 60 Hz Wechselspannung (für Kanada) $\sim$ 220 V, 50 Hz Wechselspannung (außer Kanada)
Klirrgrad	0,003% (bei 1 kHz)	Leistungsaufnahme	23 W
Übersprechdämpfung	94 dB (bei 1 kHz)	Abmessungen	435 (B) x 110 (H) x 264 (T) mm
Gleichlaufschwankungen	unter Meßgrenze ( $\pm$ 0,001% Effektivwert)	Gewicht	5,9 kg
Ausgangsspannung	2,5 V	<b>ZUBEHÖR</b>	Verbindungsstiftsteckerkabel
<b>VERWENDETE PLATTEN</b>	Compact Disc		
Spielzeit	ca. 60 Minuten/1 Seite (max. 79,8 Minuten)		
Durchmesser	120 mm		
<b>SIGNALFORMAT</b>			
Abtastfrequenz	44,1 kHz		
Quantisierung	16 Bit linear/Kanal		
Übertragungsbitrate	4,3218 Mb/s		
<b>ABTASTER</b>			
System	Objektivantriebssystem, optischer Abtaster		

Änderungen der technischen Daten und des äußeren Erscheinungsbildes, die dem Fortschritt dienen, bleiben jederzeit vorbehalten.

# FICHE TECHNIQUE

<b>AUDIO</b>		Système d'entraînement de la lentille	Entraînement parallèle à deux dimensions
Nombre de canaux	2	Source optique	Laser à semi-conducteurs
Réponse de fréquence	5–20 000 Hz $\pm$ 0,5 dB	Longueur d'onde	790 nm
Gamme dynamique	95 dB	<b>DONNEES GENERALES</b>	
Rapport signal/bruit	95 dB	Alimentation	CA 120 V, 60 Hz (pour le Canada) $\sim$ 220 V, 50 Hz (sauf pour le Canada)
Distorsion harmonique	0,003% (à 1 kHz)	Consommation	23 W
Séparation	94 dB (à 1 kHz)	Dimensions	435 (L) x 110 (H) x 264 (P) mm
Pleurage/scintillement	En-deçà des limites mesurables ( $\pm$ 0,001% W en crête)	Poids	5,9 kg
Tension de sortie	2,5 V	<b>ACCESSOIRES</b>	Cordons de branchement à broches
<b>DISQUES UTILISES</b>	Disques compacts		
Durée de lecture	Environ 60 minutes par face (Maximum 79,8 minutes)		
Diamètre	120 mm		
<b>FORMAT DES SIGNAUX</b>			
Fréquence d'échantillonnage	44,1 kHz		
Numéro de quantification	16 bits, linéaire/canal		
Vitesse de transmission des bits	4,3218 Mb/s		
<b>PHONOCAPEUR</b>			
Système	Phonocapteur optique à système d'entraînement de la lentille		

Les spécifications et la conception sont sujettes à modifications sans préavis pour des raisons d'amélioration.

**Cet appareil est conforme aux prescriptions de la directive 76/889/CEE.**



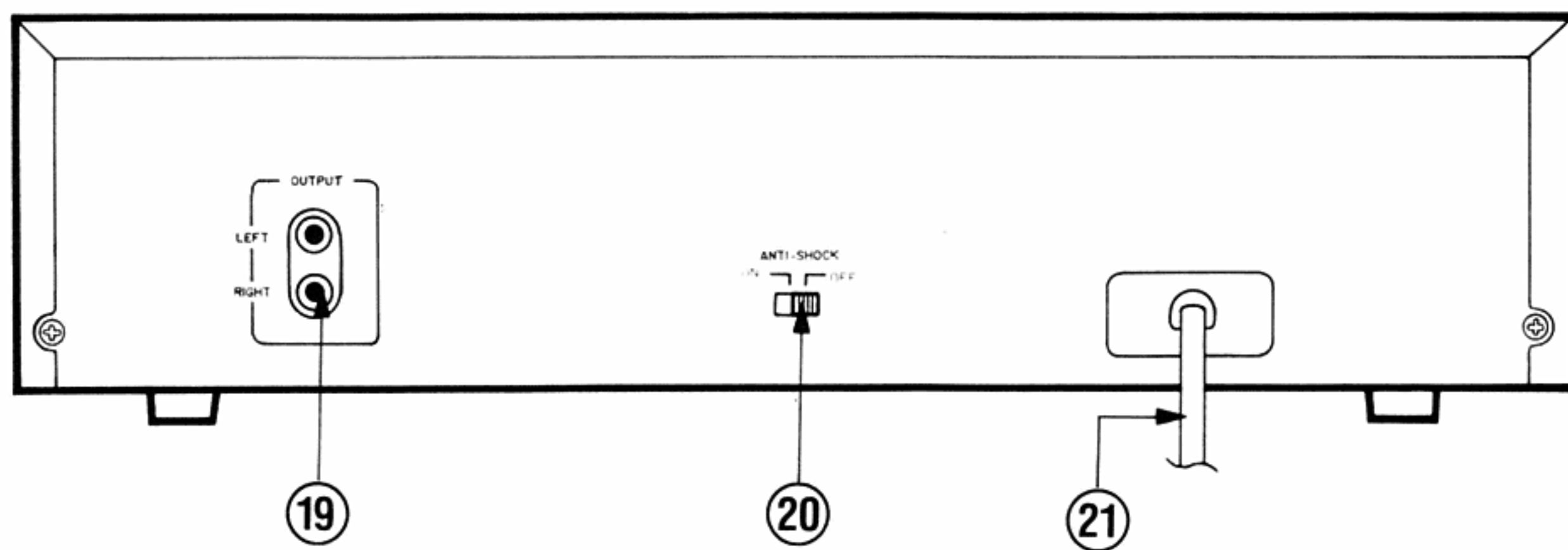
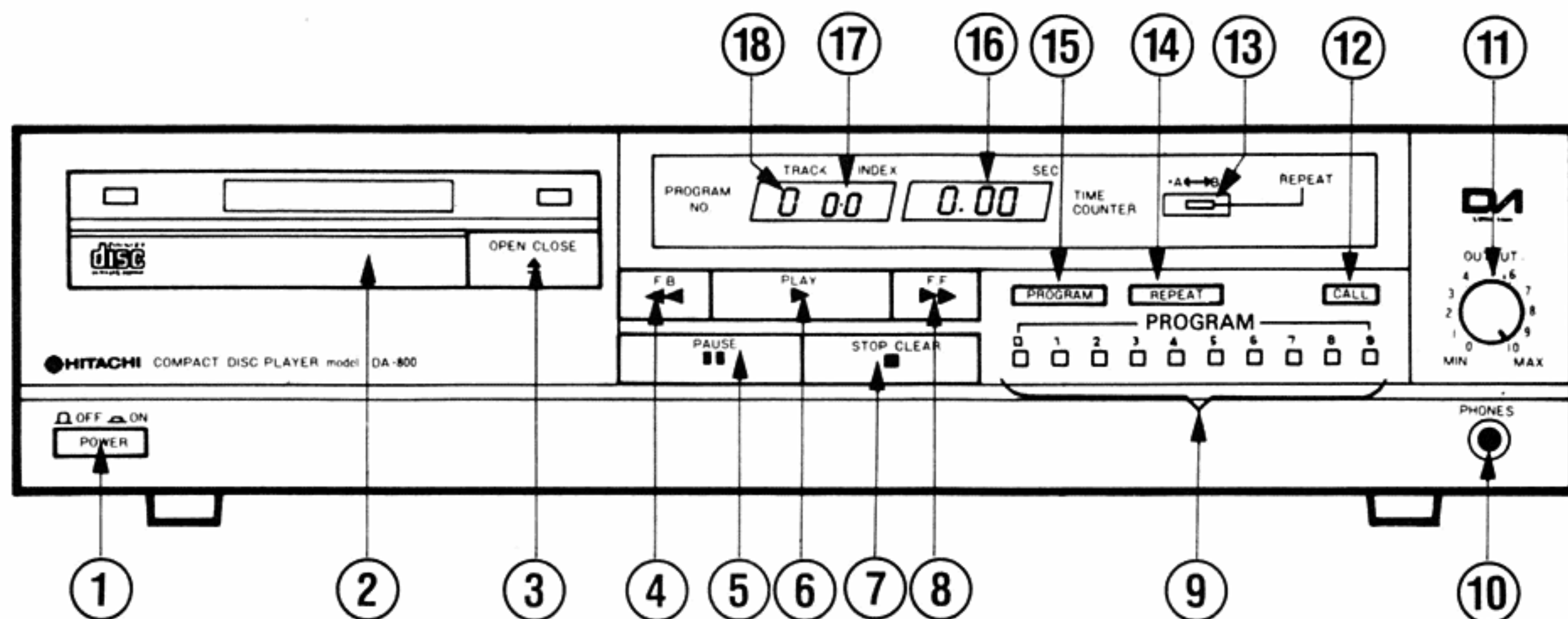


Fig. 1  
Abb. 1

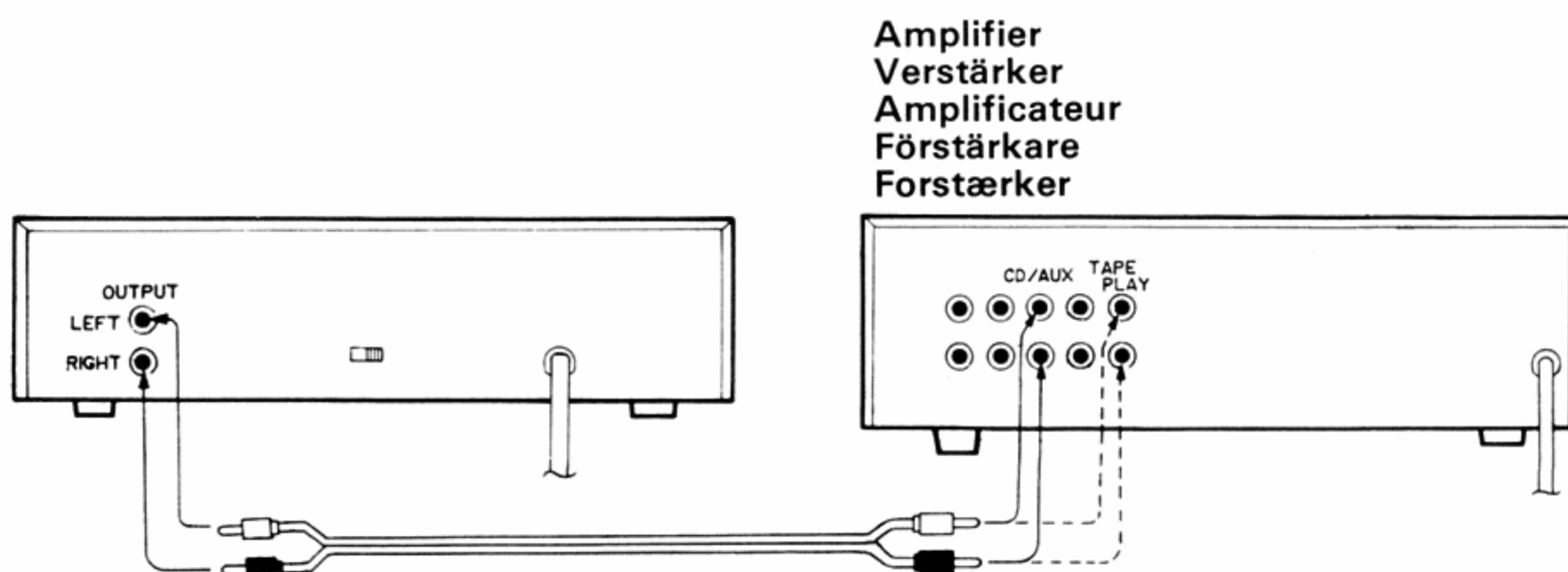


Fig. 2  
Abb. 2



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