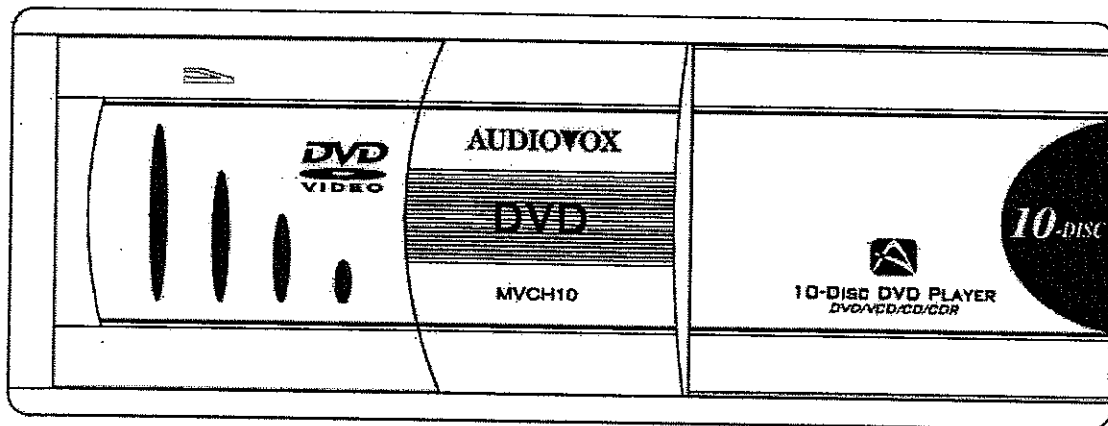
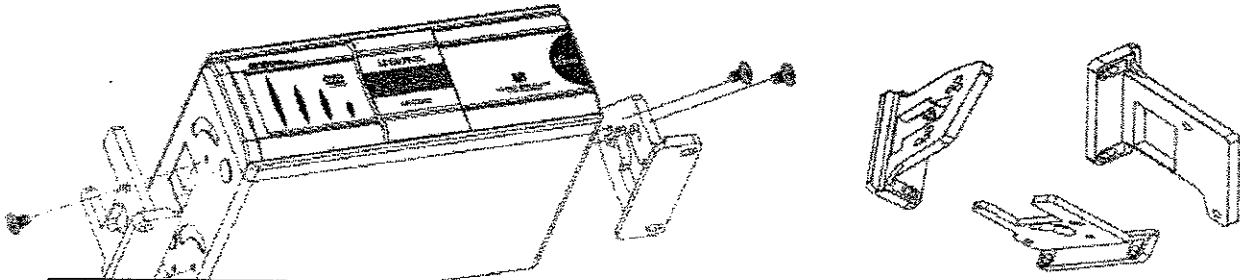


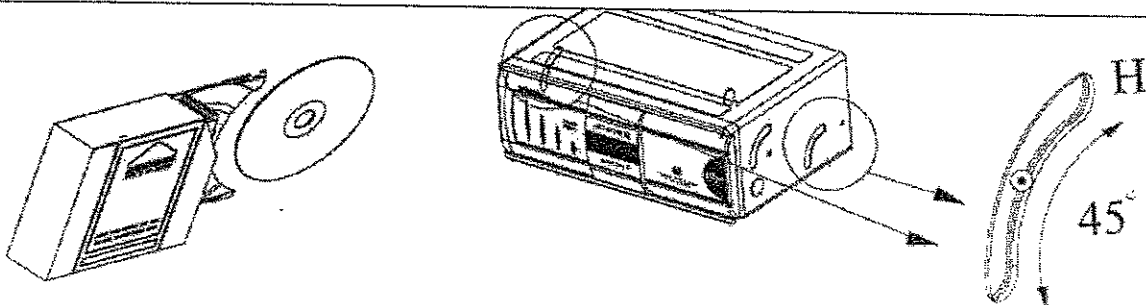
OPERATING INSTRUCTIONS

10-DISC DVD/VCD/CD CHANGER

COMPACT
DIGITAL AUDIO



MVCH10



Before operating the unit, please read these instructions carefully



OT01003114-20020302

10-DISC MULTI-DVD CHANGER

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10-DISC MULTI-DVD CHANGER

GENERAL INFORMATION

Welcome

Thank you for the purchase of this 10-Disc DVD player. Before operating the unit, please read this manual thoroughly and retain it for future reference.

Important Notes

To prevent short-circuiting of the electrical system and thereby causing serious damage to the unit or the vehicle, you are advised to follow the instructions carefully.

- Should there be requirement to replace blown fuse, do remember to disconnect all power supply and switched off the unit before replacing it with a new one. Use only correct rating fuse to avoid damaging the unit.
- During operation, if there is symptom of over-heating or system mal-function, do switch off the unit and consult your dealer immediately. Please do not attempt to open up the unit since there is no serviceable parts inside.
- This product utilizes a laser. Do not remove the cover. Use of controls or adjustments or performance of procedure other than those specified herein may result in hazardous radiation exposure.
- To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

This unit is designed using high quality electronic components and manufactured under stringent quality control system. The system unit will provide many hours of quality performance if use correctly. Do follow the maintenance procedure below:

- The battery life of the remote control unit is about six months long. To ensure effective control, please replace the batteries regularly. Do not use new and used batteries at the same time to avoid damaging the good battery.
- Do not use any chemical solvent, cleaning agent or corrosive detergent to clean away dirt on the surface of the bezel. By so doing, you may cause irreversible damage to the surface. To clean off dirt or fingerprints, we recommend the use of a soft damp lens cleaning cloth.
- Ensure no metal or foreign materials are dropped into the cabinet. Switch off the unit and contact your dealer immediately should anything falls into the unit.

~~10-DISC MULTI-DVD CHANGER~~

- Allow adequate air circulation to prevent internal heat buildup. Do not install unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight or excessive dust. If the internal temperature of the vehicle is extremely high, do allow a short cooling down period before operating the unit.
- Keep unit away from equipment with strong magnets such as large loudspeakers.
- Depending on the reception condition of the TV, noise interference may appear on TV while a broadcast is being received with this unit left on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off the unit.
- To prevent malfunction, do not play discs other than the ones listed below. Examples: DVD audio discs, DVD-ROMs, CD-ROMs, Photo CDs and DVDs with region numbers other than this player's region number.
- Use only correct size of fasteners or connection cable during installation. Failure to comply with this requirement may create fire hazard.
- Kindly refer to authorized dealers if in doubts.

When installing this unit together with display monitor, please check that you are in compliance with your local traffic rules and regulations

This product incorporates copy right protection technology that is protected by method claims of certain U.S. patents and other Intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Manufactured under License from Dolby Laboratories. "Dolby" and double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories. All rights reserved

10-DISC MULTI-DVD CHANGER

INSTALLATION GUIDE

Precautions:

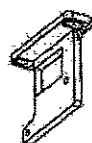
1. This unit should be installed by qualified technician or service personnel.
2. This product is designed to operate with a 12 VDC, negative ground battery system.
3. Disconnect the ground wire from the battery terminal before connecting this unit to the electrical system.
4. The wiring from some other products or accessories might bear similar color code to this product but however they might be of different function. It is always advisable to refer to the electrical connection diagrams of products or accessories before installation to avoid wrong connection.
5. Use proper insulation and fastening materials to prevent electrical short-circuiting.
6. Use only supplied accessories to avoid damaging the unit during installation.
7. This product can be mounted at 0° (H), 45° and 90° (V). Align the respective retention springs to the correct position before attaching the mounting brackets.



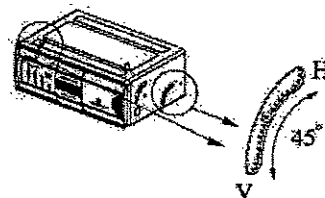
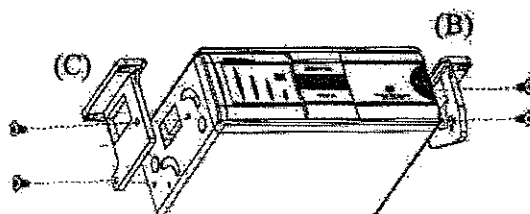
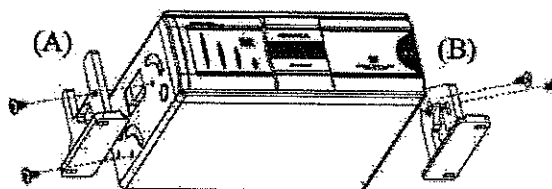
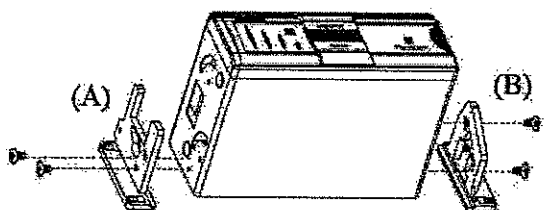
(A)



(B)



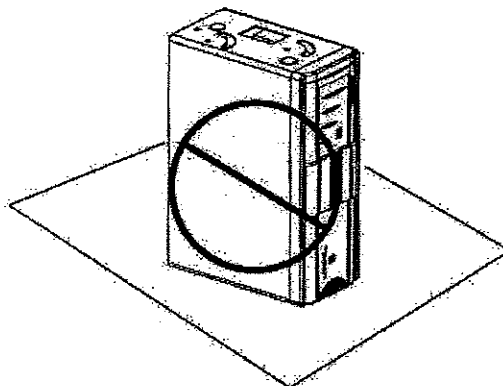
(C)



Insert a pointed object such as a screw driver or ball-point pen, etc, into the low spot of the lever and slide the lever to the position from among H (horizontal), 45, and V (vertical) positions.

10-DISC MULTI-DVD CHANGER

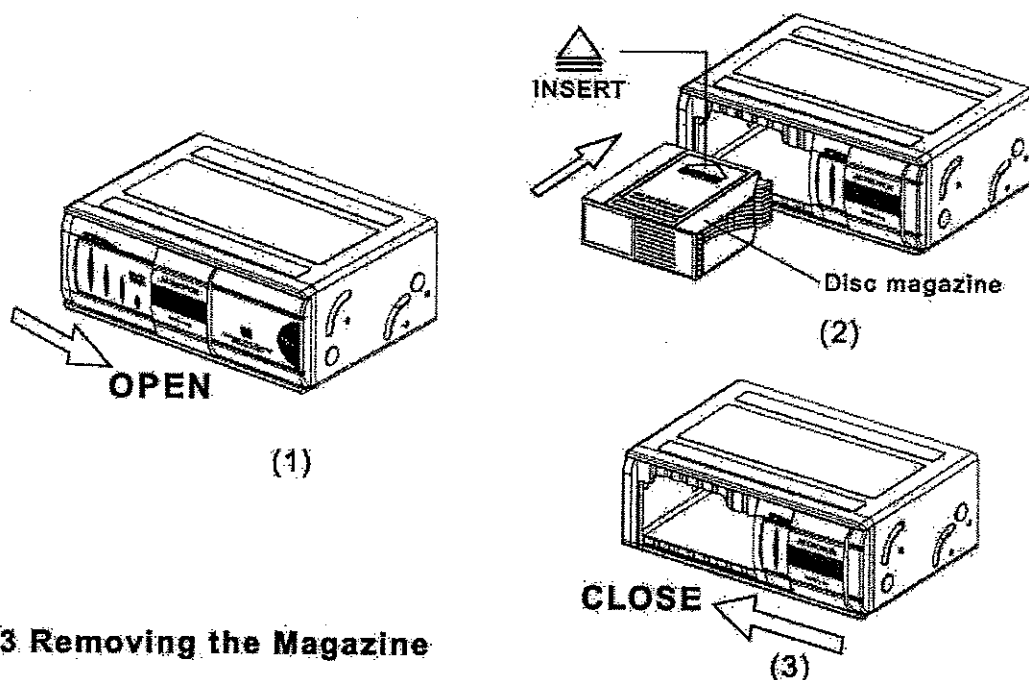
8. The player can not be installed with TOP side of player facing horizontal plane or mounting vertically on the side of the player.



9. Do not install this product at a position that may cause injuries to the passenger(s) during an accident.

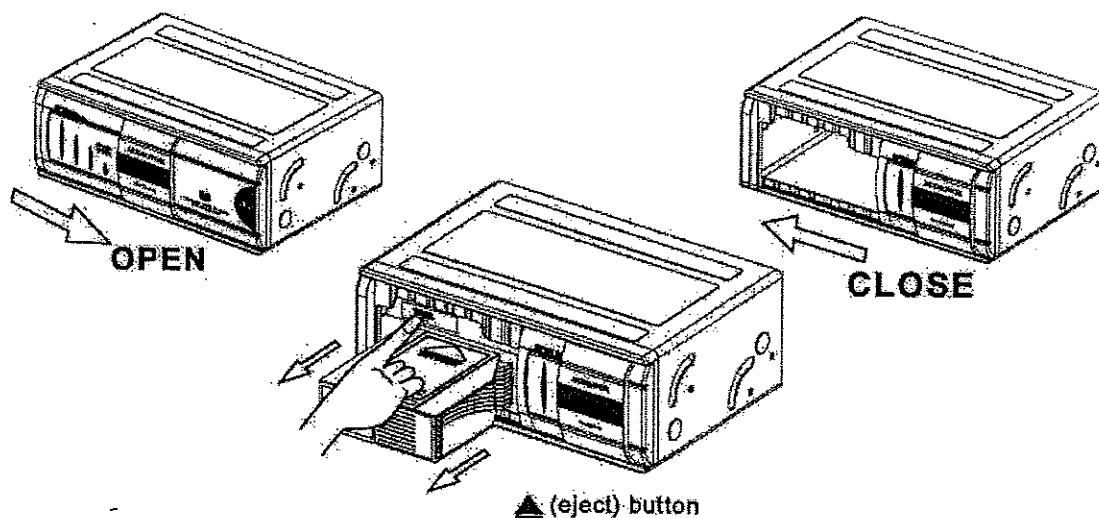
Caution : Before Installation, Remove three transport screws. After removing the screws, cover the holes with the seal supplied to prevent dust and dirt from entering the unit which may cause mechanical trouble.

10-DISC MULTI-DVD CHANGER



3.3 Removing the Magazine

- 1) Slides open the bezel door to the right.
- 2) Press the Eject button, the player will stop playing. ("STOP" message is shown in the display). After the disc has stopped, it will display "Eject" and the magazine will be ejected.
- 3) Remove the magazine.
- 4) Close the bezel door. (When the magazine is completely ejected, monitor will prompt "No Magz" in the display).



To remove the magazine, press the ▲ button and pull out the disc magazine.

10-DISC MULTI-DVD CHANGER

3.4 Unloading Disc

- 1) Pull out the tray from the magazine.
- 2) Remove the disc from the tray using your index finger and thumb.
Avoid touching the recorded surface.
- 3) Push back the emptied tray until it is locked in place.



Caution: Be sure the front bezel door is closed when loading or after removing a magazine. Dust or dirt may enter the magazine may result in damage to the unit.

4 BASIC FUNCTIONS





4.1 Disc Check Operation

- 1) Insert magazine and disc check will start immediately.
- 2) Monitor will display "Disc Check XX" where XX is from 10 down to 01.
- 3) After disc check completed and if the power is ON, elevator block will extract the first available disc from the magazine and start playback. (Monitor will display "LOADING") If the power is OFF, it will get standby at chunking position.
- 4) During disc check operation, no command is allowed except POWER key.
- 5) If ACC is off, insert magazine will turn on the monitor power and start disc check operation. After completion, it will shut down the power.


4.2 DVD playback (DVD)

- 1) Press the remote control's **POWER** () button or the front panel **POWER** () button to switch on the unit's power .
- 2) DVD playback commences.
 - The disc will start to play if the disc does not have any menu recorded on it.
 - If the disc has one or more titles recorded on it, a menu screen will appear on the TV monitor.

The DVD will display "INVALID DISC", if the DVD disc has a region code that does not tally with the unit's pre-set code.

- 3) Press  /  /  /  to select the preferred title.
- 4) Press the **ENTER** button, the selected item will now start playing.
- 5) Return to the menu screen.

Press the **MENU** or **TITLE** button, the menu screen will appear.




After operation, press **POWER** () button to put the unit into standby mode.

Note:

When "INVALID" appears, it means that the corresponding operation is prohibited either by the player or by the disc.

10-DISC MULTI-DVD CHANGER

4.3 Audio CD or Video CD playback (CD/VCD)

- 1) Press the remote control's **POWER** () button or the front panel **POWER** () button to switch on the unit's power.
- 2) Press **PLAY/PAUSE** () button to start the playback of the disc.

Playback Video CDs with playback control Using Menus

- This function works only with Video CD with playback control (Version 2.0).
 - After steps 1 to 3 as mentioned above, the menu will be displayed on the TV monitor.
- 1) Press the numeric buttons to select the preferred track.
 - 2) Press the **RETURN** button to stop the playback and return to the Menu screen.

Basic operations to play Video CD with PBC (Playback Control)

NEXT TRK  - To go to the next menu (if available) or next track


PREV TRK  - To go to the previous menu (if available) or previous track

RETURN - To return to the previous menu

Notes:

The menu play's details vary depending on the disc concerned.

Playback Video CDs with playback control without using menus (VCD)

- 1) Press the **MENU/PBC** button to set PCB off.
- 2) "PBC OFF" will be displayed on the TV screen.
- 3) Press the required track number button to select the preferred track or press the **PLAY/PAUSE** () button to commence playback.

To return to menu playback

- 1) Press the **MENU/PBC** button, the "PBC ON" will be displayed on the TV screen.
- 2) The menu (if available) will be displayed on the TV monitor.

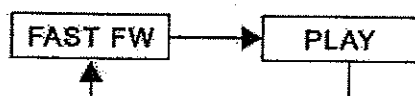
10-DISC MULTI-DVD CHANGER

4.4 Fast forward or reverse (CD/VCD/DVD)

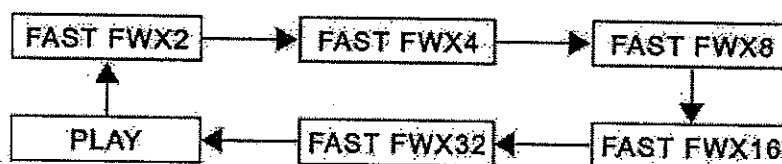
- 1) Press the **F.FWD** (**▶▶**) button during playback.

Each time this button is pressed, the unit will go into a rapid advance playback mode. The following OSD will be shown on the TV screen, depending on the speed of the playback selected.

Audio CD playback



Video CD/DVD playback,



- 2) Press the **F.REV** (**◀◀**) button during playback

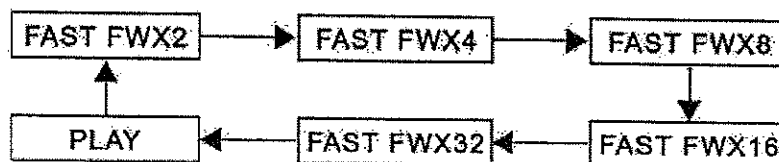
Each time this button is pressed, the unit will go into a rapid reverse playback mode.

The following OSD will be shown on the TV screen, depending on the speed of the playback selected.

CD playback:



VCD/DVD playback:



10-DISC MULTI-DVD CHANGER

4.5 Next track or previous track (CD/VCD/DVD)

Press **▶▶** during playback

Audio CD and Video CD

The player will skip forward to the next track each time the button is pressed. "SKIP FW" will be displayed on the TV screen.

DVD

The player will skip forward to the next title/ chapter each time the button is pressed. "SKIP FW" will be displayed on the TV screen.

Press **◀◀** during playback

Audio CD and Video CD

The player will skip to the beginning of the current track each time the button is pressed.

The player will skip to the beginning of the previous track when the button is pressed twice consecutively.

"SKIP BW" will be displayed on the TV screen.

DVD

The player will skip to the beginning of the current chapter each time the button is pressed.

The player will skip to the beginning of the previous chapter when the button is pressed twice consecutively.

"SKIP BW" will be displayed on the TV screen.

4.6 Play / Pause (CD/VCD/DVD)

Press the **PLAY/PAUSE (II / ▶)** button, during playback.

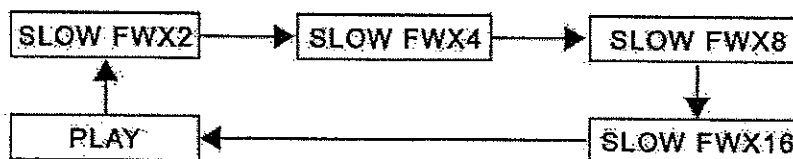
The player will be placed in the pause mode.

Press the **PLAY/PAUSE (II / ▶)** button again, the player will return to normal playback.

4.7 Slow Motion play (VCD/DVD)

Each time the **SLOW** button is pressed, the unit will go into a slow motion playback mode.

The following OSD will be shown on the TV screen:



10-DISC MULTI-DVD CHANGER

4.8 Stop (CD/VCD/DVD)

- 1) During Audio CD playback, when **STOP** (■) button is pressed, the CD playback will stop.
- 2) During VCD/DVD playback, when the **STOP** (■) button is pressed, "PRE STOP" will appear. The player records the point where the **STOP** (■) button is pressed (Resume playback function).

Press the **PLAY/PAUSE** (II / ►) button again, the play will resume from this point.

During "PRE STOP", if **STOP** (■) button is pressed, "STOP" will appear and the resume playback function will be cleared.

Note:

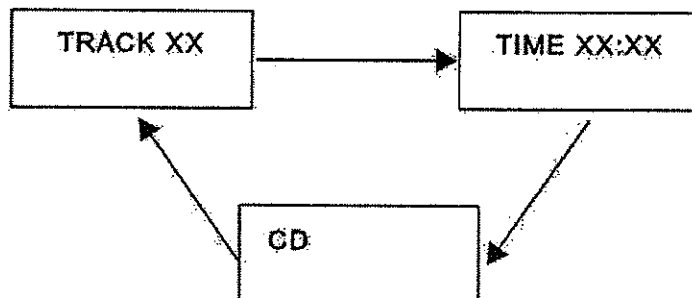
- 1) Resume playback function is not available for Audio CDs.

4.9 Search function (CD/VCD/DVD)

Search function enables you to locate a specific location by entering the time/track/chapter or title.

Audio CD

When **SEARCH** button is pressed the following will be displayed:



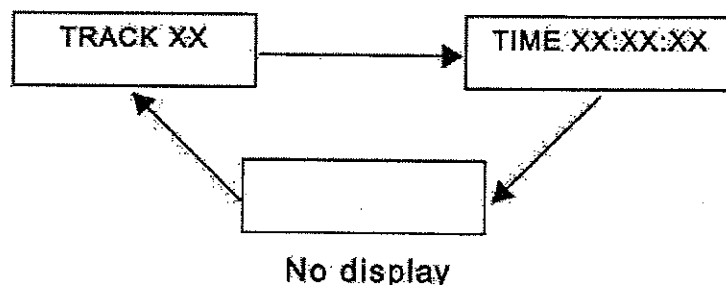
Use the numeric keys to enter the desired track or disc time and pressing the **ENTER** button will cause the player to start playing at the selected track or time.

If you are not in search mode, you may use the numeric keys to enter the desired track; the player will commence at the selected track.

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Video CD

When **SEARCH** button is pressed the following will be displayed:



Use the numeric keys to enter the desired track or disc time and pressing the **ENTER** button will cause the player to start playing at the selected track or time.

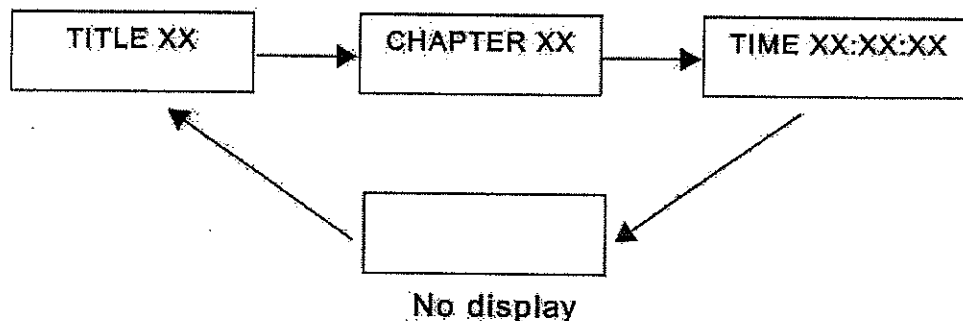
If you are not in search mode, you may use the numeric keys to enter the desired track; the player will commence at the selected track.

Note:

- 1) Search function is not available, during Video CD playback with "PBC ON".

DVD

When **SEARCH** button is pressed the following will be displayed:



Use the numeric keys to enter the desired title or chapter or chapter time and pressing the **ENTER** button will cause the player to start playing at the selected title, chapter or chapter time.

If you are not in search mode, you may use the numeric keys to enter the desired chapter; the player will commence at the selected chapter.

4.10 Changing the discs

- 1) When Disc Up / Disc Down key pressed, changer will stop playback ("STOP" message is shown) if it is playing the disc, and "Wait -- XX"

10-DISC MULTI-DVD CHANGER

message will be displayed under the "STOP" message, where XX is the next available disc to be selected.

- 2) After the disc has completely stopped, monitor will display "Disc Select XX", where XX refers to the disc selected.
- 3) When change disc operation completed, it will start playback by showing the message "LOADING".

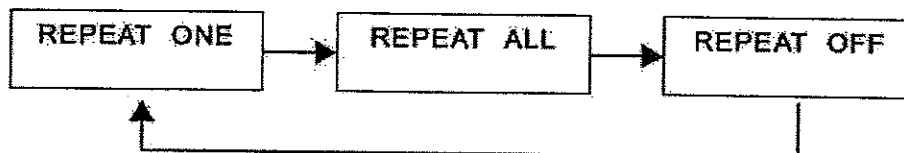
4.11 Advanced playback (CD/VCD/DVD)

4.11.1 Repeat mode

When the **REPEAT** button is pressed, the player will toggle between different repeat mode.

For Audio CD/ Video CD

When **REPEAT** button is pressed,



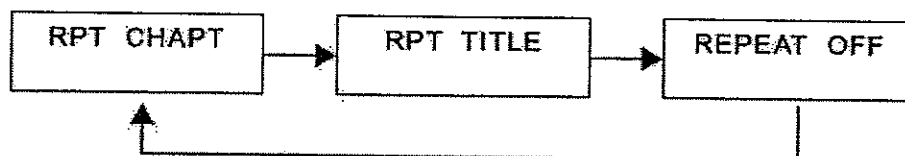
REPEAT ONE = The current track will be repeated
REPEAT ALL = The current disc will be repeated
REPEAT OFF = Repeat mode will be switched off

Note:

- 1) **REPEAT** function is not available, during Video CD playback with "PBC ON".

For DVD

When **REPEAT** button is pressed,



RPT CHAPT = The current chapter will be repeated
RPT TITLE = The current title will be repeated
REPEAT OFF = Repeat mode will be switched off

4.11.2 Camera angle (DVD)

Some DVD discs may contain scenes, which have more than one viewing angle.

For these discs, the same scene can be viewed from a different angle by using the **ANGLE** button.

10-DISC MULTI-DVD CHANGER

- 1) During DVD playback, press the **ANGLE** button.
"ANGLE x/y" will appear, x represents the current camera angle, and y represents the total available camera angle.
- 2) Press the **ANGLE** button until the preferred angle is selected.
The **ANGLE** selection will cycle through all available camera angle.

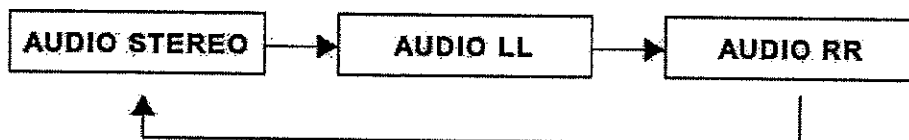
Note:

- 1) This function will only work on discs where different camera angles have been recorded.

4.11.3 Audio function (VCD/DVD)

The audio function works only for discs that have multiple audio soundtracks.

During VCD playback, press the **AUDIO** button until the desired audio is selected.

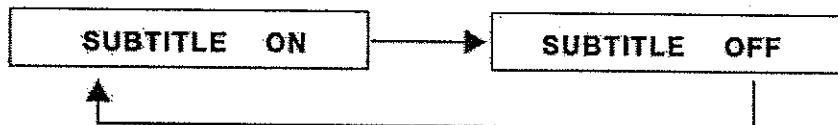


During DVD playback, press the **AUDIO** button.
"AUDIO x/y" will appear, x represents the current audio stream and y represents the total available audio streams.
Press the **AUDIO** button until the preferred audio stream is selected.
The **AUDIO** selection will cycle through all available audio streams.

4.11.4 Subtitle (DVD)

During DVD playback, you may change the subtitle language from the one selected at the initial setting to a different language, if available.

- 1) Pressing **SUBTITLE ON/OFF** button, the following will appear.



- 2) During DVD playback and **SUBTITLE ON**, press the **SUBTITLE** button.
"SUBTITLE x/y" will appear, x represents the current subtitle and y represents the total available subtitle.

10-DISC MULTI-DVD CHANGER

Press the **SUBTITLE** button until the preferred subtitle is selected. The **SUBTITLE** selection will cycle through all available subtitles.

Note:

- 1) The **SUBTITLE** works only for discs that have multiple subtitle.
- 2) In some cases, the subtitle will not changed immediately to the one selected.

4.11.5 DVD menu (DVD)

Most DVD discs have unique menu structures call DVD menu. The DVD menu's contents and operation may differ from disc to disc.

- 1) During DVD playback, press the **MENU** button.

The DVD menu available on the disc will be displayed.

- 2) Use **➡ / ⬅ / ⬆ / ⬇** to select the preferred item or use the numeric buttons(s) to make a selection.
- 3) Press **ENTER** button, the selected item will start playing.

4.11.6 Title menu (DVD)

Some DVD discs may have more than one title. If the disc has a title menu recorded on it, the **TITLE** button can be used to access it.

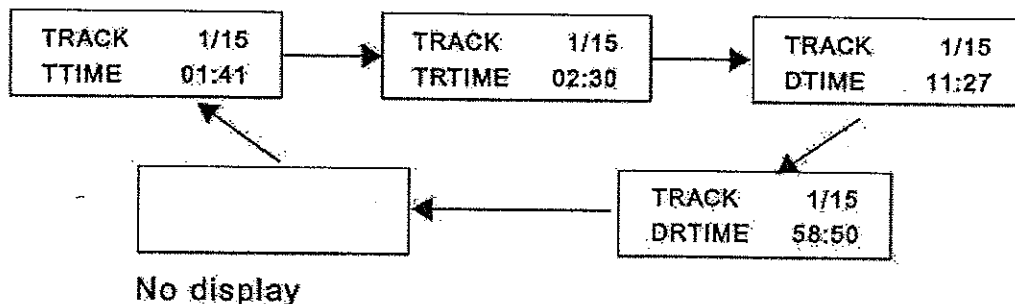
- 1) During DVD playback, press the **TITLE** button.
A list of the titles may be displayed.
- 2) Use **➡ / ⬅ / ⬆ / ⬇** to select the preferred item.
- 3) Press **ENTER** button, the selected title will start playing.

4.11.7 Display function (CD/VCD/DVD)

The display function enables you to view the status, current title number, track number and the total playing time of the disc on the TV screen.

Audio CD

When the display key is pressed, the following OSD will be shown.

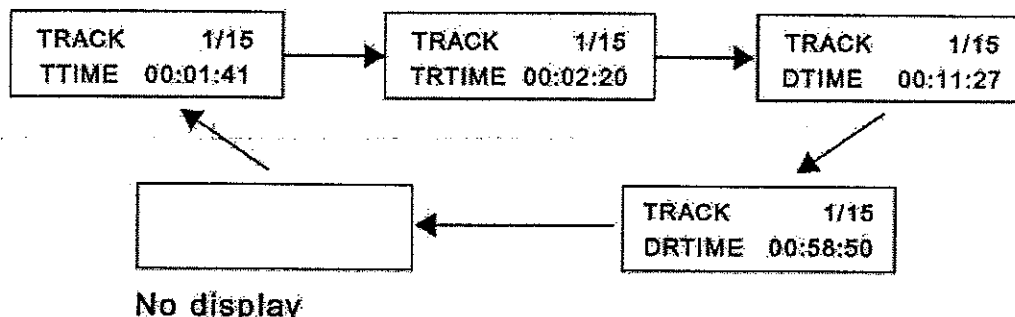


10-DISC MULTI-DVD CHANGER

TTIME = Track time
 TRTIME = Track remaining time
 DTIME = Disc time
 DRTIME = Disc remaining time

Video CD

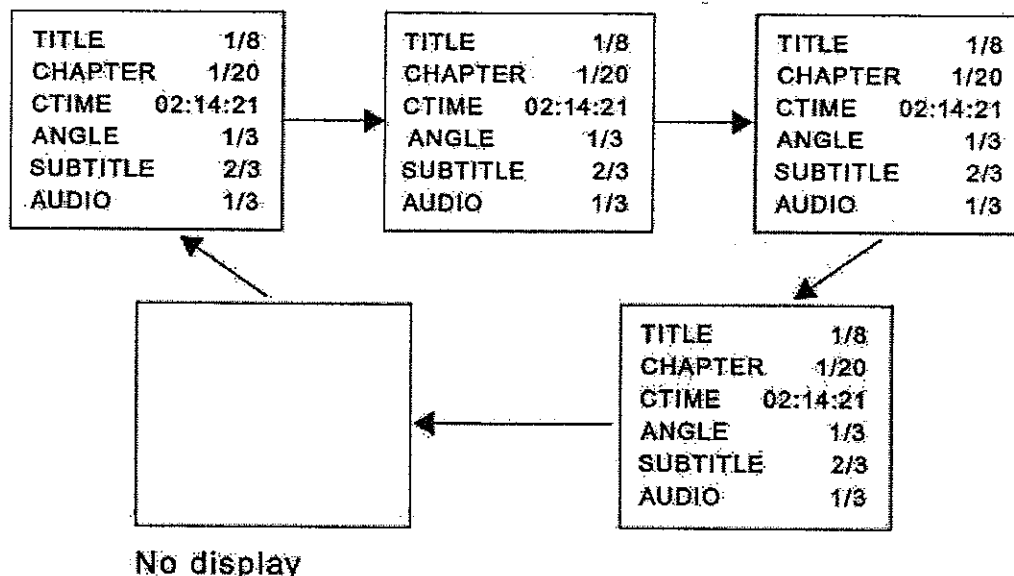
When the display key is pressed, the following OSD will be shown.



TTIME = Track time
 TRTIME = Track remaining time
 DTIME = Disc time
 DRTIME = Disc remaining time

DVD

When the display key is pressed, the following OSD will be shown.



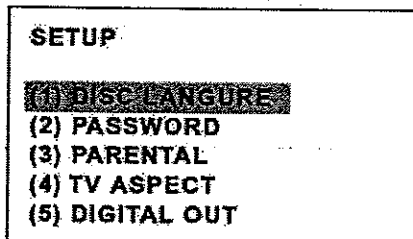
CTIME = Chapter time
 CRTIME = Chapter remaining time
 TTIME = Title time
 TRTIME = Title remaining time

10-DISC MULTI-DVD CHANGER

4.11.8 Setup menu (DVD)

When the player is in stop mode, pressing **SETUP** button will allow you to modify some of the player's basic settings.

a) During **STOP**, press **SETUP** button, the setup menu will appear.



b) Use **↑** / **↓** or numeric key to select the desired item, then press **ENTER** button.

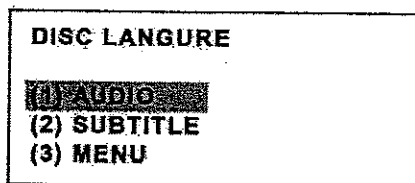
c) To exit, press the **SETUP** button.

(1) Disc language

a) During **STOP**, press **SETUP** button, the setup menu will appear.

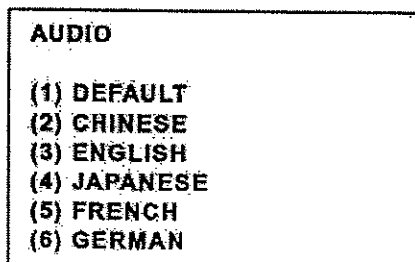
b) Use **↑** / **↓** or numeric key to select the **DISC LANGUAGE** item, then press **ENTER**.

The disc language menu will appear.



c) Use **↑** / **↓** or numeric key to select **AUDIO/SUBTITLE/MENU**, then press **ENTER**.

If audio is selected, the following menu will appear.



10-DISC MULTI-DVD CHANGER

- d) Use **↑** / **↓** or numeric key to select the preferred language for AUDIO/SUBTITLE/MENU, then press **ENTER** button.
- e) Use the **RETURN** button to return to the previous menu or press **SETUP** button to exit.

(2) Password

- a) During **STOP**, press **SETUP** button, the setup menu will appear.
- b) Use **↑** / **↓** or numeric key to select the **PASSWORD** item, then press **ENTER** button.

The change password menu will appear.

CHANGE PASSWORD

PARENTAL
PASSWORD

- c) Use the numeric keys to enter the password, then press **ENTER**.
- d) If correct password is entered, the user can now enter the new password.

CHANGE PASSWORD

NEW
PASSWORD

If incorrect password is entered, the previous menu will be shown.

- e) Use the numeric keys to enter the new password, then press **ENTER**.
- f) The user is required to confirm the new password.

CHANGE PASSWORD

CONFIRM
PASSWORD

- g) If the new password and the confirm password tally, the **SETUP** menu will be shown again.

10-DISC MULTI-DVD CHANGER

(3) Parental Control

- a) During STOP, press **SETUP** button, the setup menu will appear.
- b) Use **↑** / **↓** or numeric key to select the PARENTAL item, then press **ENTER**.

The player will request for parental password.

PARENTAL PASSWORD
PASSWORD

- c) Use the numeric keys to enter the password, then press **ENTER**.
- d) If correct password is entered, the parental control menu will be shown.

PARENTAL CONTROL
(8) VIEW ALL
(7)
(6)
(5)
(4) NO ADULT
(3)
(2)
(1) KIDS ONLY

If incorrect password is shown, "INVALID" will be shown.

- e) Use **↑** / **↓** or numeric key to select the desired parental control, then press **ENTER**.
- f) The **SETUP** menu will be shown again.

(4) TV aspect

- a) During STOP, press **SETUP** button, the setup menu will appear.
- b) Use **↑** / **↓** or numeric key to select the TV ASPECT, then press **ENTER**.

The preferred TV aspect menu will be shown.

TV ASPECT
(1) 16:9 WIDE
(2) 4:3 LETTERBOX
(3) 4:3 PAN SCAN

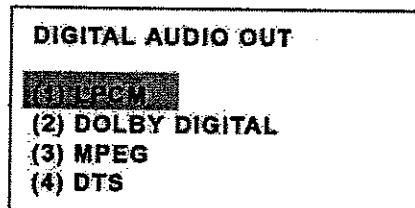
- c) Use **↑** / **↓** or numeric key to select the preferred TV ASPECT item, then press **ENTER**.
- d) The **SETUP** menu will be shown.

10-DISC MULTI-DVD CHANGER

(5) Digital Out

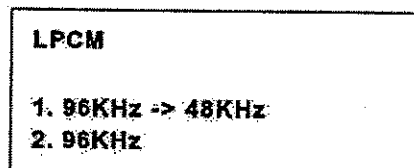
- a) During STOP, press SETUP button, the setup menu will appear.
- b) Use **▲** / **▼** or numeric key to select the DIGITAL OUT item, then press **ENTER**.

The preferred digital audio output will be shown.



- c) Use **▲** / **▼** or numeric key to select the preferred digital audio output, then press **ENTER**.
- d) The SETUP menu will be shown.

(5.1) If LPCM is selected, the following sub-menu appear



Use **▲** / **▼** or numeric key to select the preferred digital audio output, then press **ENTER**

LPCM output setting definition:

Output Setting	Definition
96KHz -> 48KHz	A 48KHz signal is output regardless of the audio sampling frequency. A 96KHz signal is converted to a 48KHz signal
96KHz	Select this setting when using analog connections The signal is output with the same frequency as the audio sampling frequency. With a 96KHz signal, you can enjoy exceptionally high sound quality.

Note: With discs featuring 96KHz recording, if you select the "96KHz" setting, audio is not output from digital output.

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(5.2) If Dolby Digital is selected, the following sub-menu appear

Dolby Digital

1. Dolby Digital Stream
2. Dolby Digital -> PCM

Use **▲** / **▼** or numeric key to select the preferred digital audio output, then press **ENTER**

Dolby Digital setting definition

Output Setting	Definition
Dolby Digital Stream	Select when using a Dolby Digital compatible amp and decoder.
Dolby Digital -> PCM	Select when using an amp and decoder that are not Dolby Digital compatible.

(5.3) If MPEG is selected, the following sub-menu appear

MPEG

1. MPEG Stream
2. MPEG -> PCM

Use **▲** / **▼** or numeric key to select the preferred digital audio output, then press **ENTER**

MPEG setting definition

Output Setting	Definition
MPEG Stream	Select when using a MPEG compatible amp and decoder.
MPEG -> PCM	Select when using an amp and decoder that are not MPEG compatible.

(5.4) If DTS is selected, the following sub-menu appear

DTS

1. ON
2. OFF

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Use **▲** / **▼** or numeric key to select the preferred digital audio output, then press **ENTER**

DTS setting definition

Output Setting	Definition
On	Select when using a DTS compatible amp and decoder.
Off	Select when using an amp and decoder that are not DTS compatible.

Remark:

Set audio output correctly to match the components you are using with this unit. If the setting is incorrect, there will be no sound. Be sure to read the manual of the connected components.

10-DISC MULTI-DVD CHANGER

5. PRODUCT SPECIFICATION

GENERAL

Power Supply	: 12VDC Typical
Current Consumption	: Less than 3.0 A
Operating positions	: 0, 45 and 90 degree
Dimension (WxDxH)	: W 262 mmX D 175 mmX H 82 mm
Weight	: 2.5kg

AUDIO

Output	: 700mV rms, 600 Ω
Frequency response	: 20 Hz to 20 kHz (CD audio / 44.1kHz sampling)
Distortion	: 0.02% (at 1 kHz)
Dynamic range	: Above 85dB
S/N ratio	: ≥ 90 dB
Cross talk	: -75dB
Optical output	: Connection to DSP unit for 5.1 channel Dolby™ Digital & dts™ sound reproduction

VIDEO

Television System	: NTSC/PAL
Playback Disc	: DVD/VCD/CD & CD-R compatible (12cm, 8cm) Single sided and dual layer DVD supported
Aspect ratio	: 4:3, 16:9
TV Encoder Resolution	: 10 bit DAC
Video S/N	: 65 dB

CONNECTOR

Interface	
Controller Interface Connector	: For connecting to control unit DA230.1 and AD-6867

6. REGION MANAGEMENT INFORMATION

This DVD/CD player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this player, this player will not be able to play the DVD disc.

This DVD/CD player is set to work only in a particular world region as labeled on the player.

Region Number:	Country under the Region
1.	Canada, U.S., U.S Territories
2.	Japan, Europe, South Africa, Middle East (including Egypt)
3.	Southeast Asia, East Asia (including Hong Kong)
4.	Australia, New Zealand, Pacific Islands, Central America, Mexico, South America, Caribbean
5.	Former Soviet Union, Indian Subcontinent, Africa (also North Korea, Mongolia)
6.	China