

# YAMAHA CDV-1200K

Natural Sound CD CDV LD Player



## IMPORTANT

This unit is designed for your enjoyment in your home.  
We cannot be liable for the quality of the unit if you  
use it for business use.  
So please do not use this unit for business use.

## 重要事項

本机专为在家里使用而设计。  
若用于业务方面，本厂不能保证其质量，  
因此请勿将本机用于业务方面。

Thank you for purchasing the YAMAHA CD CDV LD player  
CDV-1200K.

## CONTENTS

|   |    |
|---|----|
| Caution   | 2  |
| Accessories                                       | 3  |
| Features  | 3  |
| Types of discs which can be played with this unit | 4  |
| Notes on the remote control transmitter           | 6  |
| Disc handling precautions                         | 7  |
| Connection  | 8  |
| Disc loading                                      | 12 |
| Preparation for karaoke play                      | 13 |



|                                    |    |
|------------------------------------|----|
| Enjoying karaoke play              | 14 |
| Various functions for karaoke play | 16 |
| Normal play                        | 18 |
| Search operation                   | 21 |
| Program play                       | 25 |
| Still/step play (CAV)              | 26 |
| Repeat play                        | 27 |
| Specifications                     | 28 |
| Troubleshooting                    | 29 |

## CAUTION

Read this before operating your unit.

- 1** To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2** Install your unit in a cool, dry, clean place -- away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, motors). To prevent fire or electrical shock, do not expose to rain and water.
- 3** Never operate the unit upside-down.
- 4** Never open the cabinet. If a foreign object drops into the set, contact your dealer.
- 5** This player should not be placed on appliances, such as amplifiers, that produce heat, or placed in a cabinet that impedes the flow of air. This may result in a failure in this player. Install the player in a well ventilated place. In addition, do not place objects on the player.
- 6** Do not use force on switches, knobs or cords. When moving the set, first turn the unit off. Then gently disconnect the power plug and the cords connecting to other equipment. Never pull the cord itself.
- 7** Do not attempt to clean the unit with chemical solvents: this might damage the finish. Use a clean, dry cloth.
- 8** Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.
- 9** To prevent lightning damage, unplug the power cord and remove the antenna cable during electrical storms.
- 10** The generated digital signals may interfere with other equipment such as tuners or receivers. Move the system farther away from such equipment if interference is observed.
- 11** **If your unit has a voltage selector (General model only), check that it is set to your local voltage before you plug it in. If not properly set, reset the switch to indicate your supply voltage.**

This unit has been designed for use with the NTSC format, which is the television format used in North America and some areas. Do not use discs or a TV made for other television formats (PAL, SECAM) with this unit.

## WARNING

### DANGER

Invisible laser radiation when open and interlock failed or defeated.  
Avoid direct exposure to beam.

### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- \* As the laser beam used in this player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.
- \* To avoid electrical shock, do not open the unit. Refer servicing to qualified personnel only.

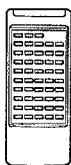
### NOTE:

Please check the copyright laws in your country before recording from records, compact discs, radio, etc. Recording of copyrighted material may infringe copyright laws.

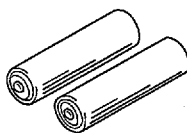
## ACCESSORIES

After unpacking, check that the following accessories are present.

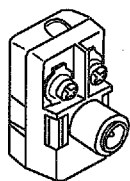
- Remote control transmitter



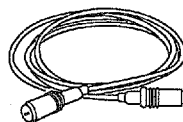
- Batteries



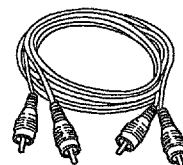
- 75-ohm/300-ohm antenna adapter



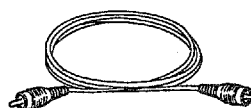
- Coaxial cable with F-type connector



- Audio cord



- Video cord








## FEATURES

- CD CDV LD compatible player for wide range enjoyment from multiplex karaoke sources to movies
- Up to 20-song direct select function
- Up to 15 songs can be programmed in your desired order
- Key control function allows you to select your desired musical pitch (karaoke mode: 17 steps/normal mode: 399 steps)
- Your voice obtains an echo effect with the Digital Echo function
- Stereo multiplex function allows you to sing with stereo accompaniment.
- Once More function allows you to repeat the same part many times and is helpful for your karaoke practice
- Multiplex balance control allows you to adjust the volume between the original vocals and music
- With the Vocal Changer function, your voice replaces original vocal
- One Touch Karaoke function changes general stereo source to karaoke source
- Voice Control function allows you to heighten or lower the pitch of your voice
- Digital Surround function provides a stage-like atmosphere
- One Song Pause function is convenient for preparing for next song
- With the tape jacks and auxiliary jacks, you can enjoy with another karaoke units
- With the 48 key remote control transmitter, you can control the unit smoothly

## TYPES OF DISCS WHICH CAN BE PLAYED WITH THIS UNIT

● The disc marks are found on the disc labels or jackets.

| Mark  | Disc  | Size                       | Marked Sides         | Audio Recording Format                 | Video Recording Format    | Possible Searches   | Remarks           |
|---|---|----------------------------|----------------------|--|---------------------------|---|-------------------|
|    | <br><b>CD Single</b> | 8cm<br>(3")                | 1 side               | Digital<br>(max. 20 min.)              |                           | Track search<br>Time search<br>Index search   | TOC (*1)          |
|   | <b>CD (Compact Disc)</b>  | 12cm<br>(5")               | 1 side               | Digital<br>(max. 70 min.)              |                           | Track search<br>Time search<br>Index search   | TOC<br>INDEX (*2) |
|    | <b>CDV (Compact Disc Video)</b>   | 12cm<br>(5")               | 1 side               | Digital<br>(max. 20 min.)              | CLV (*3)<br>(max. 5 min.) | Track search<br>Time search<br>Index search   | TOC<br>INDEX      |
|    | <b>CDV-LD (CDV format Laser Disc)</b>   | 20cm (8")<br>or 30cm (12") | 2 sides or<br>1 side | Digital and Analog (*5)                | CAV (*4) or<br>CLV        | Chapter/Track search (CLV)<br>Index search<br>Frame No. search (CAV)<br>Time No. search (CLV) | TOC<br>INDEX      |
|  | <b>LD (Laser Disc)</b>  | 20cm (8")<br>or 30cm (12") | 2 sides or<br>1 side | Digital and Analog (*5) or Analog only | CAV or CLV                | Chapter search (CLV)<br>Frame No. search (CAV)<br>Time No. search (CLV)                       |                   |



This unit can play LDs (Laser Discs) carrying this mark, which is an international unified mark for videodiscs.  
Do not attempt to play other types of videodiscs, such as CED and VHD videodiscs.

#### **Auto audio digital output**

When playing discs having a digitally-recorded audio signal, audio reproduction circuit is automatically changed to the audio digital circuit.

### **TOC (\*1)**

Every CD and CDV type disc is provided with a section called TOC (Table Of Contents) at the beginning of the disc. The TOC is just like the table of contents of a book, and contains information on the contents (number of tracks, playing time, etc.) of the disc.

### **INDEX (\*2)**

When a CD or CDV disc contains a musical work composed of several movements, each of the movements is sometimes given a number called an "index". When playing such a disc, it can be played starting from one of the indexed positions. For details, please read the explanation on the disc before playing it.

- Discs containing a record of index numbers usually carry **INDEX** mark on the instruction booklet.

### **Notes on video recording formats**

#### **● Long-play disc/CLV (\*3)**

A CLV (Constant Linear Velocity) disc rotates at variable speeds, so that the recording speed is constant at the inner and outer parts of the disc (Inner part: 1800 rpm to Outer part: 600 rpm). The maximum video signal recording length is 60 minutes per side. Trick plays (still / frame advance, auto picture stop) are not possible with a CLV disc, but Chapter search, time search and repeat playback are possible.

#### **● Standard disc/CAV disc (\*4)**

A CAV (Constant Angular Velocity) disc contains a video signal recorded at a constant interval from the center to the edge of the disc. With a standard disc, 54,000 video signal frames can be recorded on one side, which corresponds to 30 minutes of playback.

All frames on a standard disc are assigned a frame number, which makes it possible to perform trick plays (still / frame advance) and auto picture stop, as well as chapter search, frame search and various repeat playback functions.

### **Notes on audio signals (\*5)**

Some CDV-LD or LD discs contains both digital and analog audio signals, so that either of them can be selected during playback. (Discs containing digitally-recorded audio carry the **Digital Sound** mark on their jackets.)

This unit is equipped with an audio switch key that allows you to select the digital or analog audio signal from such discs.

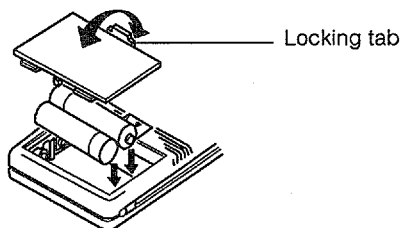
#### **Laser multi-audio discs with digital audio**

Discs carrying the **Digital Multi Audio** mark on their jackets or labels contain the digital and analog audio signals, so that the desired contents can be selected during playback. For details, please refer to the "Selecting the digital/analog audio signal" section on page 20.

## NOTES ON THE REMOTE CONTROL TRANSMITTER

### Battery installation

1. Press the lid's locking tab down and, at the same time, pull out the battery compartment lid.
2. Insert two size "AA" batteries verifying the correct (+ / -) polarity. Follow the diagram in the compartment.
3. Position the bottom portion of the compartment lid in place, and push the top portion of the lid in until it clicks.



### Replacing the battery

**When the remote-controllable distance decreases, the batteries are weak. In this case, replace the batteries ...**

- Always insert batteries into the battery compartment correctly matching the positive (+) and negative (-) polarities as shown in the display inside the compartment.
- Never mix new and used batteries together.
- Batteries of the same size may have different voltages. Do not mix different types of batteries together.

#### Remote control transmitter operation .....

- When the remote control transmitter is not to be used for a long period of time, remove the batteries to avoid damage from possible battery leakage.

#### To prevent a serious accident ...

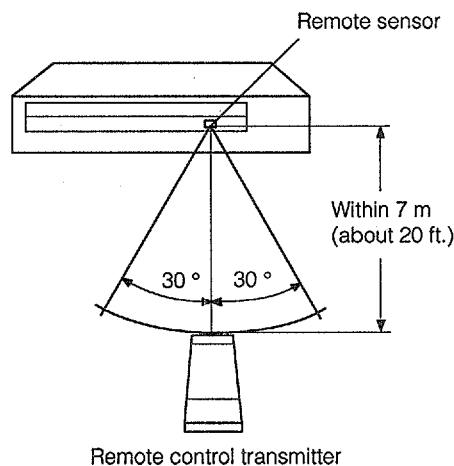
- Never disassemble, heat up the batteries or throw them into the fire. When dumping, dispose them with noncombustibles.
- Never short-circuit the battery by connecting the positive and negative polarities directly with a piece of metal, etc.

#### When leakage happens ...

- Wipe off the battery fluid inside the battery compartment completely, and load new batteries.

### Operation range of the remote control transmitter

Usable range of the remote control transmitter.



#### When the remote control transmitter does not function ...

When this happens, the batteries may be exhausted. Replace with new ones. And check the player's power.

#### Careful operation is required ....

Do not spill liquids on the remote control transmitter and do not subject to the excessive shock or drop it. Take care not to leave the remote control transmitter in an excessively hot or highly humid place, such as near a heater or in the bathroom. Be careful not to expose the remote sensor to intense light or direct sunlight. When the remote sensor is exposed to intense light, the remote control transmitter may not function or become difficult to operate.

#### CAUTION

This unit can be correctly operated only with the supplied remote control transmitter. So, please do not use other remote control.

## DISC HANDLING PRECAUTIONS

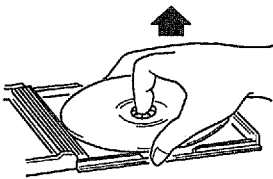
### Do not use damaged discs

Discs rotate inside the player at high speeds. Do not use damaged (warped, cracked, etc.) discs. The player may be damaged.



### How to take out the CD or CDV disc

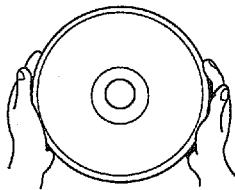
Open the CD or CDV storage case with both hands, hold the disc by the edges and take out the disc while pressing the center clip.



### Disc holding

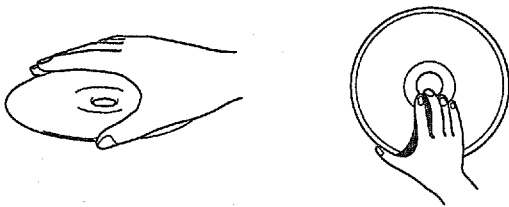
#### Holding with both hands ...

Hold the disc by its rims with both hands, as shown below.

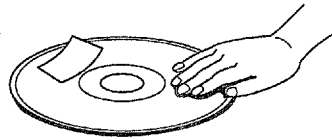


#### Holding with one hand ...

Hold the disc by its center hole and rim, as shown below.

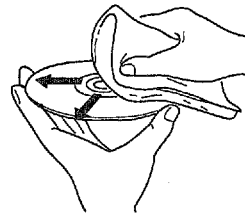


Do not stick a paper, etc. on the disc surface or touch it with your finger.



### Disc maintenance

In order to obtain the highest quality picture and sound from your discs, wipe off dust, dirt or finger-prints on the surface of the disc using soft cloth, etc. before use. When extremely dirty, dip a soft cloth into water, wring it out, and wipe out in a radial direction. Then, using a dry cloth, wipe it again.



Scratched discs may not play or may cause abnormal noise in the player. Avoid playing such discs, since they may overload the player's mechanism. Do not use record cleaner sprays, benzene or static prevention sprays, etc. on discs.

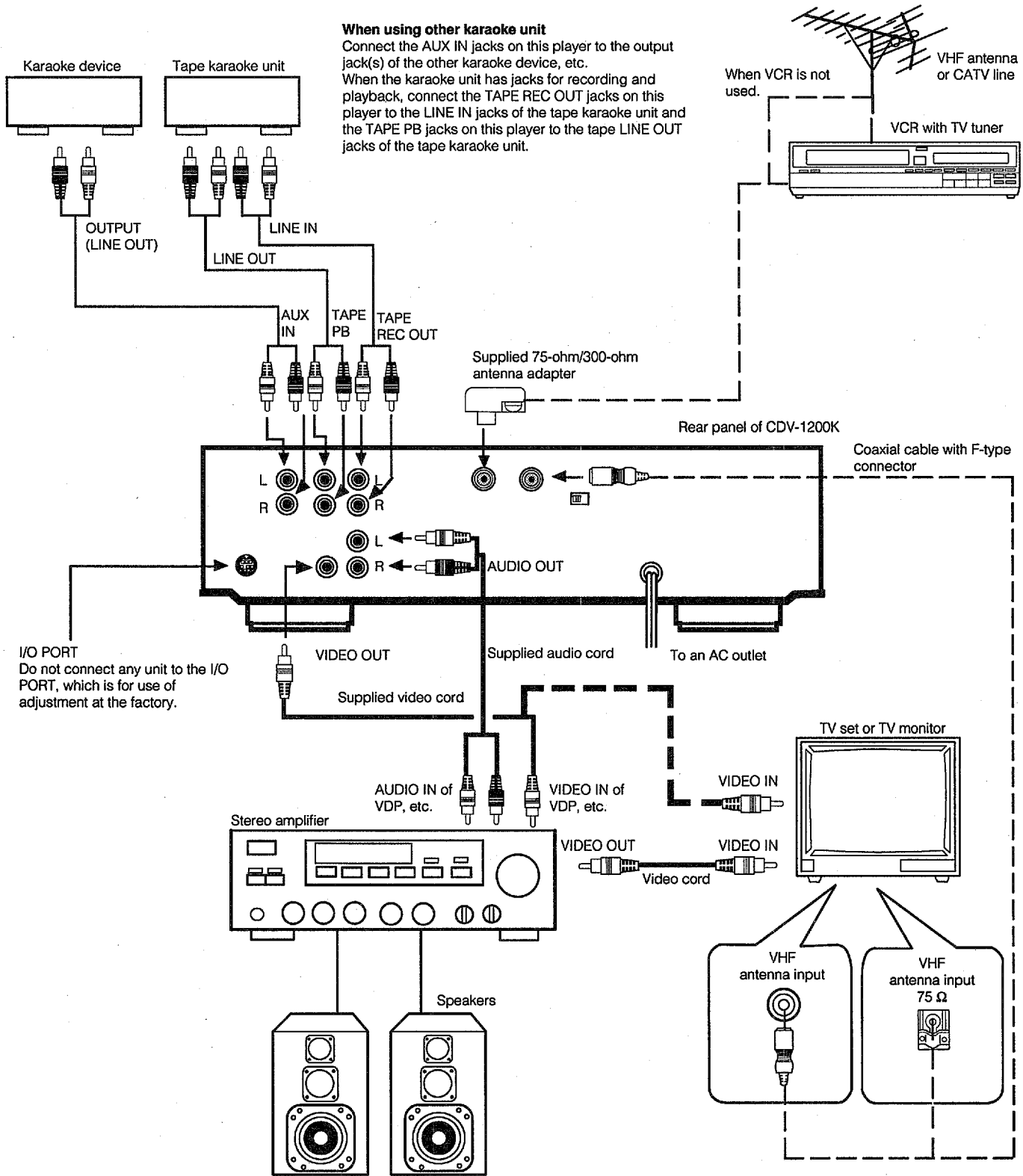
### Disc storage

To prevent warping, remove a disc from the player after playing. Then return it to its envelope and store it vertically in a location not subject to high temperature or humidity. Be sure to read all instructions printed on discs and their jackets.

# CONNECTION

- During connection, be sure to disconnect the power cords of all the audio and video equipments from the AC outlet. Do not turn the power on until all connections are completed.

- When making connections between this unit and other components, be sure all connections are made correctly, that is to say L (left) to L, R (right) to R.





## Connection examples

### A. With a stereo amplifier or receiver having audio and video inputs and a television set having video input

Connect as shown by a thick solid line ( ————— ).  
 \* The connection shown by a thin line is an alternative.

### B. With a television set having video input and a stereo amplifier or receiver having audio input only

Connect as shown by a thick dashed line ( - - - - - ) for video signal, with the connection shown by a thick solid line for audio signal as it is.

### C. With a television set having no video input and a stereo amplifier or receiver

Connect as shown by a thin dashed line ( - - - - - ) for video signal, with the connection shown by a thick solid line for audio signal as it is.

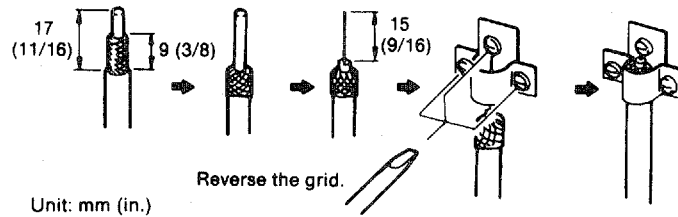
- VCR can be used, connecting as shown by a thin dashed line ( - - - - - ), in combination with any one of the above connection examples A, B, and C.

## NOTES

- When the AUDIO OUT and the VIDEO OUT jacks are connected to the audio input and video input jacks of TV set or TV monitor, and the microphone is used, noise sometimes appears on the TV screen. If this happens, disconnect the plugs connected to the AUDIO OUT jacks and connect them to the TAPE REC OUT jacks. In this case, when the sound of microphone is distorted, turn up the TV volume and turn down the volume of the microphone.
- To use the tape karaoke amplifier, connect the AUDIO OUT jacks to the LINE IN jacks of the tape karaoke amplifier.  
 \* Be sure to disconnect the TAPE PB jacks of this player and LINE OUT jacks of the tape karaoke amplifier to prevent the oscillation.

## How to connect the supplied coaxial cable with F-type connector to the television set having no F-type antenna Terminal

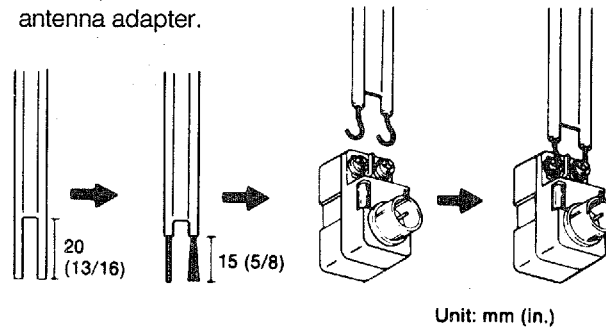
1. Cut off one of the supplied coaxial cable with F-type connector.
2. Process the cut end and connect it to the antenna terminal of the television



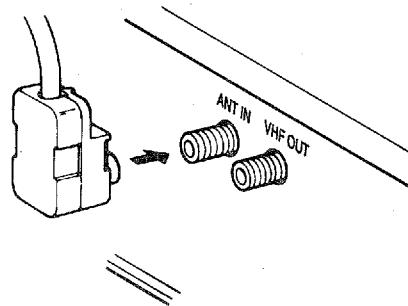
## How to use the supplied 75-ohm/300-ohm antenna adapter

### ● When using a 300-ohm feeder

1. Connect the feeder cable to the terminals of the supplied 75-ohm/300-ohm antenna adapter.



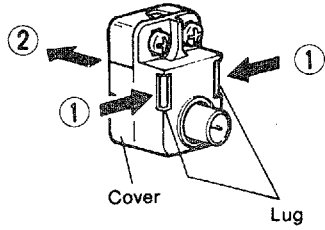
2. Plug the antenna adapter into the ANT IN terminal of this unit firmly.



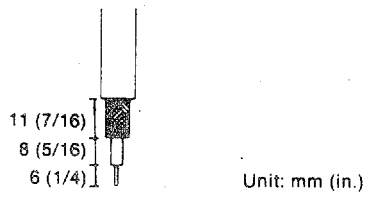
## CONNECTION

### ● When using a 75-ohm coaxial cable

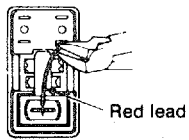
1. Remove the cover of the supplied 75-ohm / 300-ohm antenna adapter by pressing the locking lugs inward.



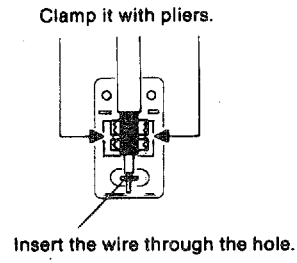
2. Cut the end of the 75-ohm coaxial cable and process it as shown below.



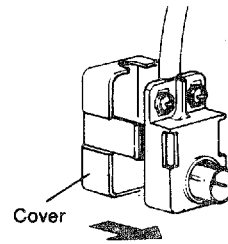
3. Cut off the red lead and remove it.



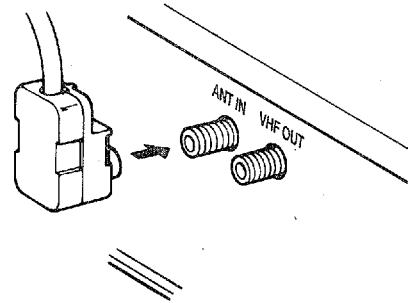
4. Insert the cable wire through the hole as shown below and clamp it with pliers.



5. Replace the cable end of the cover and snap into place by pressing the adapter together.

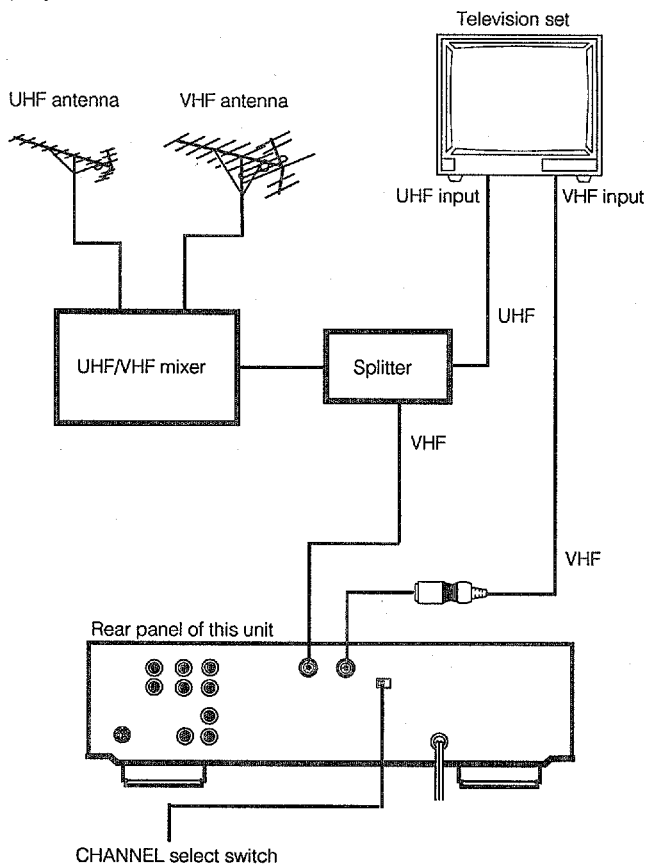


6. Plug the 75-ohm/300-ohm antenna adapter into the ANT IN terminal of this unit.



## VHF and UHF signals transmission

When both VHF and UHF signals are transmitted with one cable using a UHF/VHF mixer, a signal splitter is used to separate the signals. In this case, connect the VHF output from the splitter to the ANT IN terminal of this unit and connect the UHF output to the UHF input of the television set. The VHF television broadcasting can be seen by switching the TV/DISC selector on the front panel of the player.



### Channel H/L selection

Set the CHANNEL select switch to either channel H or L, whichever is a vacant channel. (When used with televisions having no video/audio input terminals.)

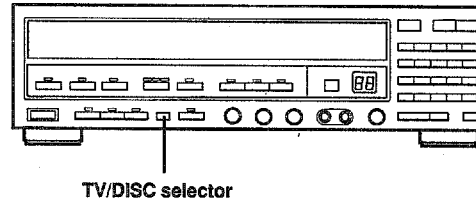
- In the unit, the video and audio signals are converted to a VHF signal which is the same as the television broadcast signal and output to a vacant channel of your television, so that the picture from the disc can be seen on the television screen.

If the picture is not seen clearly, tune to the channel exactly, referring to the instruction manual of television.

## To switch between the TV and player

**When the player and TV are connected with the example C (See page 8 and 9.)**

To switch the mode between TV and the player, press the TV/DISC selector. Each time the TV/DISC selector is pressed, the mode is changed between TV and the player.



In the TV mode, VHF antenna input signal is connected to the television through this unit.

- \* When the TV/DISC selector is pressed, the disc rotates in the player while the television broadcast is seen on the screen. When watching the television broadcast for long periods, be sure to turn off the player's power.
- \* If the TV signal is weak, the picture may fluctuate. In this case, turn off the power of this player.

**When the player and TV are connected with the example A and B (See page 8 and 9.)**

1. Take out the disc and turn off the power of the player.
2. Set the television to the TV broadcast receiving mode by setting external input selector.

For example, when the VIDEO IN jack of the television set is connected, set the external input selector of the television set to "video".

(For details, refer to the instruction manual of the television being used.)

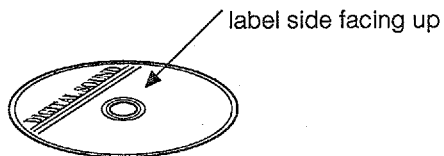
## DISC LOADING

### When playing a 3-inch CD disc:

Set the disc on the innermost guide with the label side facing up.

### When playing a 5-inch CD or CDV disc:

Set the disc on the next guide with the label side facing up.

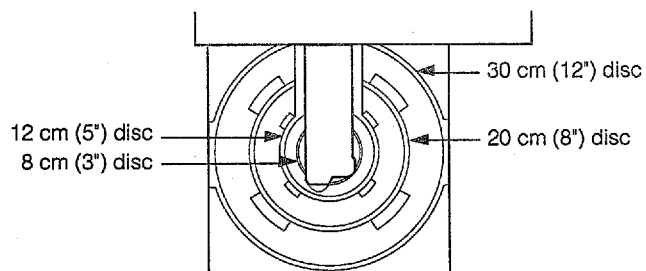
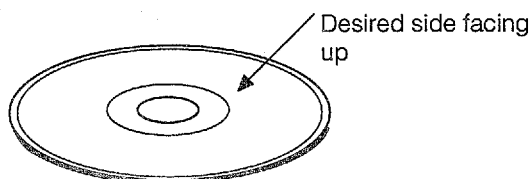


### When playing an 8-inch disc:

Set the disc on the 8 in/20 cm guide, with the label side you want to play facing up.

### When playing a 12-inch disc:

Set the disc securely within the outermost guide, with the label side you want to play facing up.

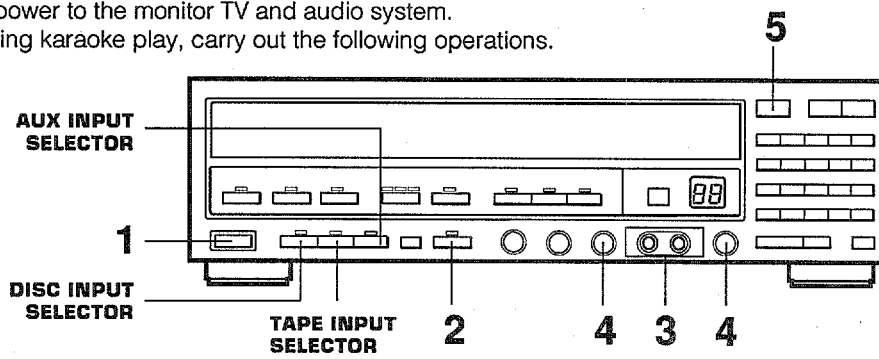


### NOTES:

- Do not move the player during play. During play, the disc rotates at a high speed. In this condition, lifting the player up or moving it may damage the disc surface. When moving the player, be sure to stop the unit and remove the disc.
- Be sure to close the disc tray after removing or loading a disc. A strong force (especially in a vertical direction) applied to the disc tray when out, may cause malfunction.
- Do not place any objects, other than discs, on the disc tray.
- Do not place two or more discs together.
- Be sure to remove the disc from the player every time you are finished. Place the disc back in its jacket or case.

# PREPARATION FOR KARAOKE PLAY

- Turn on the power to the monitor TV and audio system.
- Before enjoying karaoke play, carry out the following operations.



## 1 Turn on the power to the player.



### NOTE:

When an input indicator other than the DISC indicator lights, press the DISC INPUT SELECTOR.

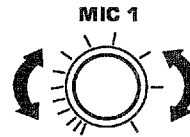
## 2 Set the player to KARAOKE mode.



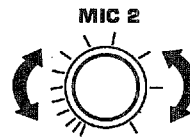
The color of the monitor screen is different between the KARAOKE mode and the NORMAL (disc play) mode.  
 KARAOKE mode: green  
 NORMAL mode: blue

## 4 Adjust the microphone level.

For MIC 1

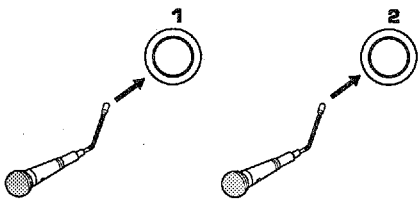


For MIC 2

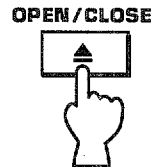


Adjust the volume control of the amplifier.  
 Adjust the microphone level while speaking into the microphone or singing during karaoke play.

## 3 Connect the microphone(s) to the MIC 1 or 2 jack or both jacks for enjoying duets and turn on the microphone(s).



## 5 Open the disc tray and place a disc on it. (Refer to page 12.)



### When playing other karaoke devices

1. Turn on the power.
2. When using a karaoke device connected to the AUX IN jacks, press the AUX INPUT SELECTOR. When using a tape karaoke unit connected to the TAPE jacks, press the TAPE INPUT SELECTOR.
3. Set the AUDIO MODE button that corresponds to the auxiliary device.  
**If a stereo source is played:**  
 Press the AUDIO MODE button so that the STEREO indicator lights up. (The MPX BAL control does not function in this mode.)

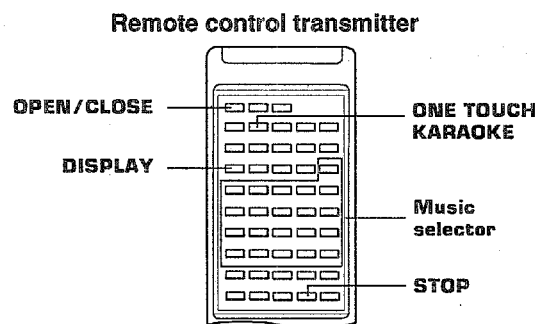
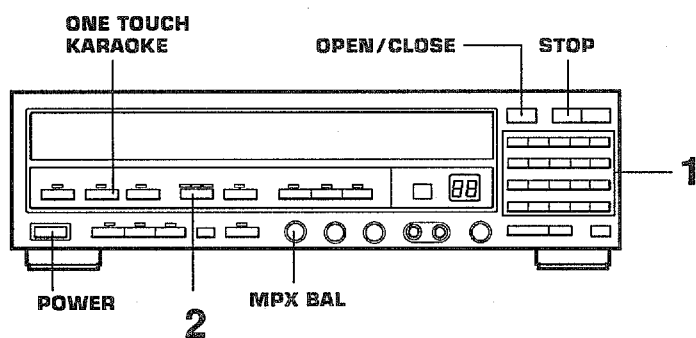
### If a sound multiplexed source is played:

- Press the AUDIO MODE button so that the MPX indicator lights up. (The MPX BAL control functions in this mode.)
- ST MPX mode does not function.

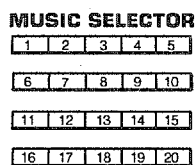
### When howling (a high-pitched sound) occurs

Decrease the microphone level, separate the microphone farther from the speaker(s), or lower the volume of the amplifier. (If using a TV, lower the volume of the TV.)

# ENJOYING KARAOKE PLAY



## 1 Select a song with the MUSIC SELECTOR buttons.



Playback automatically pauses after one song is played. Select the next song with the MUSIC SELECTOR buttons. This function is available only in the KARAOKE mode.

- To select song No. 21 or above, use the "+10" key on the remote control transmitter.  
Example: To select No. 30, press the "+10" key twice then the "10" key.  
To select No. 32, press the "+10" key three times then the "2" key.

## 2 Set the AUDIO MODE selector according to the disc being played.

**To use multi audio karaoke discs with digital audio:**  
Set the AUDIO MODE selector to ST.MPX so that the ST.MPX indicator lights up.



- Set the MPX BAL control to the MUSIC side to reduce the volume of the original vocals.

## To use sound multiplexed CD, CDV-LD or LD karaoke discs:

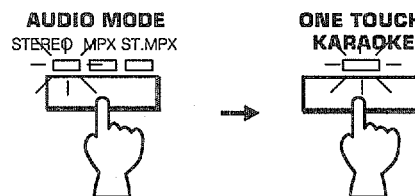
Set the AUDIO MODE selector to MPX so that the MPX indicator lights up. When a CDV-LD and LD karaoke disc is played, this selector is set to the MPX position automatically.



- Set the MPX BAL control to the MUSIC side to reduce the volume of the original vocals.
- \* With sound multiplexed CDV-LD or LD karaoke discs, the ST.MPX position cannot be selected even when the AUDIO MODE selector is pressed.
- \* With sound multiplexed CD karaoke discs, the ST.MPX position cannot be selected even when the AUDIO MODE selector is pressed.

## To use general CDs, CDVs or LDs (with vocals) as karaoke discs:

Set the AUDIO MODE selector to STEREO so that the STEREO indicator lights up and press the ONE TOUCH KARAOKE button.



- \* With general CDs, CDVs or LDs, the ST.MPX position cannot be selected even when the AUDIO MODE selector is pressed. If the MPX position is selected, the volume of the original vocals cannot be reduced even with the MPX BAL control.

### To stop playback

Press the STOP button.

### To stop playback temporarily

Press the PAUSE button.

To resume playback, press the PAUSE button again.

### To remove the disc

Press the OPEN/CLOSE button and remove the disc. When the player is not being used, turn off the power with the POWER button.

## Audio mode switching

Since the recorded contents are different according to the type of karaoke disc, you can select the desired part (music part or music + vocal part) with the AUDIO MODE selector.

| AUDIO MODE setting \ Disc | Multi audio karaoke disc with digital audio (20 cm/30 cm CDV-LD, LD) | Sound multiplexed karaoke disc (20 cm/30 cm CDV-LD, LD) | Sound multiplexed CD karaoke disc (12 cm CD) |
|---------------------------|--|---|--|
| STEREO                    | Stereo music   | Music + Vocals  | Music + Vocals                               |
| MPX                       | Music + Vocals   | Music + Vocals  | Music + Vocals                               |
| ST.MPX                    | Stereo music + Vocals  | *   | *  |

The output channel can be selected with the SOUND key. See below.

The MPX BAL control can be operated to reduce the original vocals.

\* : You cannot select this position.

With the DIGITAL/ANALOG\*CX key, the audio signal can be switched between the digital and analog signal. See below.

### Audio signal of karaoke discs

| Disc \ Audio signal | Multi audio karaoke disc with digital audio (20 cm/30 cm CDV-LD, LD) |  | Sound multiplexed karaoke disc (20 cm/30 cm CDV-LD, LD) |  | Sound multiplexed CD karaoke disc (12 cm CD) |  |
|---------------------|--|--|---|--|--|--|
| Digital signal      | Music L ch (stereo)  | Music R ch (stereo)                    | unrecorded  |  | Music L ch (monaural)                        | Vocal or vocal + music R ch (monaural) |
| Analog signal       | Music L ch (monaural)  | Vocal or vocal + music R ch (monaural) | Music L ch (monaural)                                   | Vocal or vocal + music R ch (monaural) | unrecorded                                   |  |

#### NOTE:

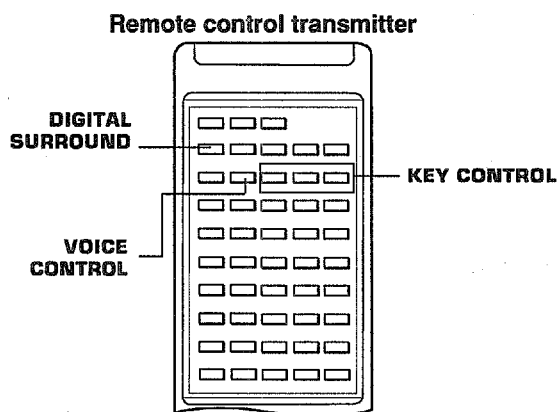
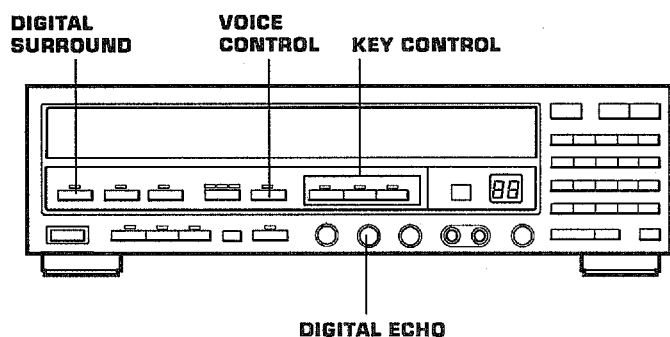
With some discs, the functions above are not available because the recording format of audio signal is different.

#### NOTE:

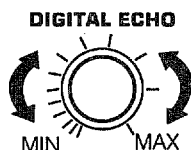
After stopping karaoke play, turn off and unplug the microphone(s).

To display the chapter/track no., elapsed time, etc. Press the DISPLAY key. See page 19.

## VARIOUS FUNCTIONS FOR KARAOKE PLAY

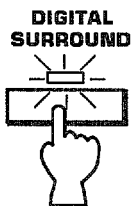


### To adjust the microphone echo



The microphone echo is increased by turning the control to the right and decreased by turning the control to the left.

### To obtain a stage-like atmosphere

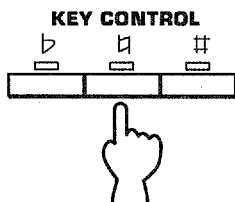


This function gives the background music and your voice a feeling of depth. Press the DIGITAL SURROUND button again to return to the original sound.

**Note:**

This function can be obtained only if you are using a stereo amplifier or stereo-type AV television.

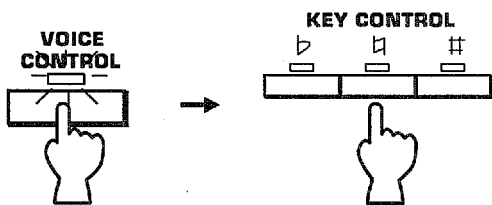
### To obtain the desired musical pitch



Press the KEY CONTROLS to obtain the desired musical pitch ( $\pm 2$  notes, 17 steps).

Press the ♭ button to lower the pitch.  
 Press the ♯ button to heighten the pitch.  
 Press the ♮ button to return to the normal pitch.  
 Every time the music is finished, the setting is reset.

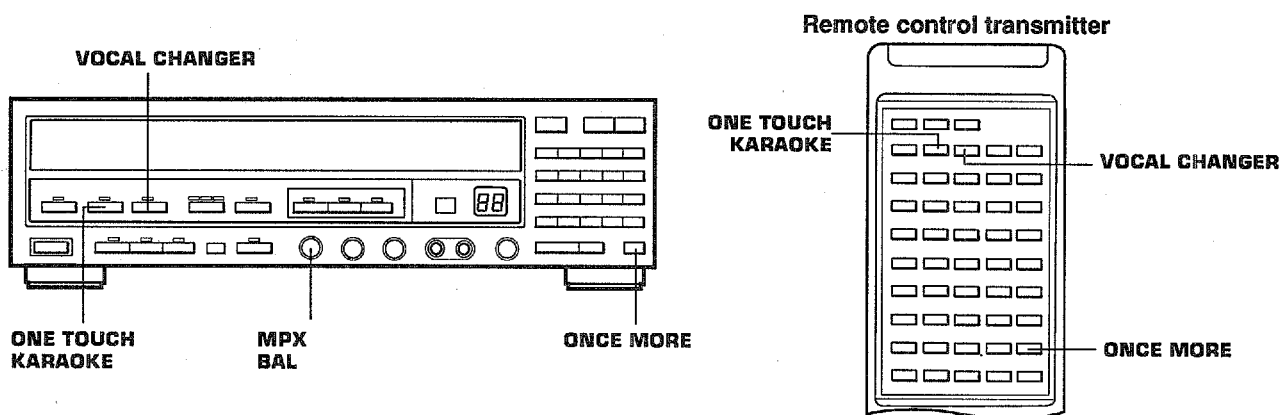
### To change the pitch of your voice



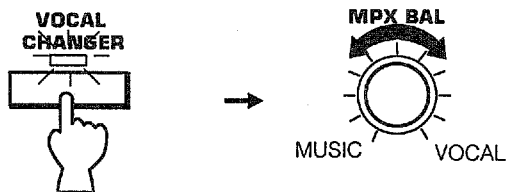
Press the VOICE CONTROL button and then press the KEY CONTROL ♭ or ♯ button to heighten or lower the pitch of your voice.  
 Press the ♮ button to return to the normal level.  
 When the VOICE CONTROL button is pressed, the KEY CONTROL buttons do not function to change the musical pitch of the disc.

● If you use the microphone while operating these buttons, the sound is temporarily disturbed.





**To replace the original vocals with your voice when you sing**



1. Press the VOCAL CHANGER button so that the indicator lights.
2. Adjust the MPX BAL control to balance the volume between the original vocals and music.  
When you sing into the microphone, your voice replaces the original vocals on the disc. This is an ideal function for practicing only the female (male) part.

**To change general stereo sources to karaoke sources**



- To reduce the original vocals so that the musical accompaniment is mainly heard.  
With some discs, however, original vocals may remain heard.
- The One Touch Karaoke function is not available with mono sources.

**To repeat a section to practice the same part**

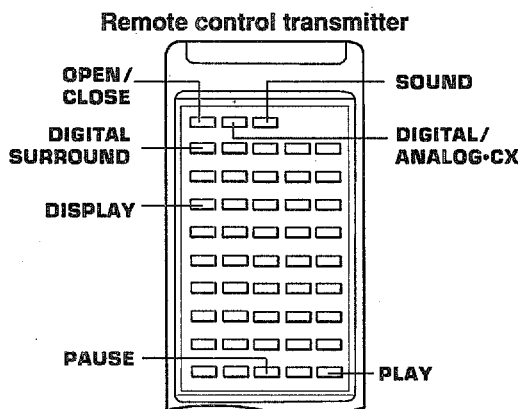
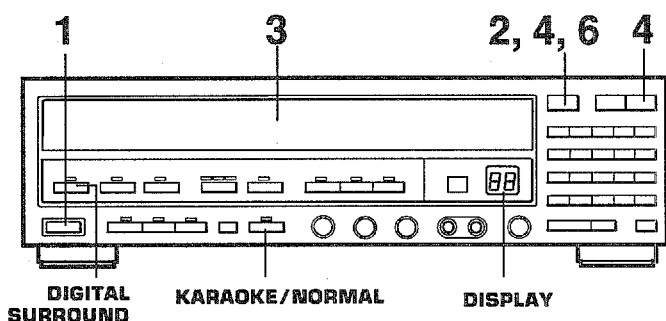


- Each time the ONCE MORE button is pressed, playback returns to a point approximately 5 seconds earlier in the song. For example, if the ONCE MORE button is pressed 3 times, playback will return to a point approximately 15 seconds earlier. However, the position will not return to a point earlier than the beginning of the song being played.
- The Once More function is not available with CAV discs which do not contain a TOC.

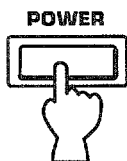
**A-B repeat and single repeat functions can be carried out during karaoke play.**  
See page 27.

**To use the program function**  
See page 25 for "PROGRAM PLAY".

# NORMAL PLAY



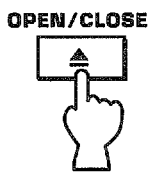
## 1 Turn the player on.



### NOTE:

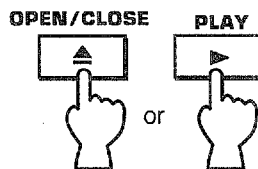
If the KARAOKE indicator is lit, press the KARAOKE/NORMAL selector to set the player to the NORMAL mode. The color of the monitor screen changes to blue.

## 2 Open the disc tray.



## 3 Place a disc on the disc tray. (See page 12.)

## 4 Close the disc tray.

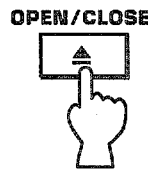


You can also close the disc tray by pushing the disc tray lightly.

## 5 Play will start automatically from the beginning of the disc.

- With a CDV, play starts from the beginning of the video section. When playback of the video section is completed, the audio section is automatically played.
- To stop playback temporarily, press the PAUSE key on the remote control transmitter once. To resume playback, press the PLAY key.
- To stop playback, press the STOP key.

## 6 Take the disc out of the player.

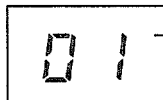


The player enters stop mode and disc rotation stops. Be sure to remove the disc from the disc tray only after the disc tray is fully open.

**To obtain the surround sound**  
Press the DIGITAL SURROUND key.

**Display during playback**

NO./CHAPTER  
/TRACK



Track No. or Chapter No.

### For discs with the automatic picture stop function (CAV)

Some CAV discs have a special information signal, called the Picture Stop Code, recorded on them. When playing these discs, the player automatically enters still play mode when play reaches the frame designated by the picture stop code. Normal play will continue by pressing the PLAY key, etc. For more details, refer to the disc jacket.

### When playing a disc having the CX mark

The CX noise reduction circuit improves the signal-to-noise ratio and expands the dynamic range, resulting in audio reproduction with high fidelity sound and little noise.

On CX discs, a special code is recorded which automatically turns the CX system on. The player reads the code to turn the CX circuitry on automatically.

On some CX discs, it is necessary to manually activate the CX Noise Reduction system. With these discs, press the DIGITAL/ANALOG-CX key so that "CX ON" appears on the screen. To deactivate the CX Noise Reduction system, press this key again. "CX OFF" is displayed on the screen for about 2 seconds.

\* CX is a trademark of Columbia Broadcasting System Inc.

### To obtain the desired musical pitch for your instrument

Press the KEY CONTROLS to adjust the musical pitch of the source to match your instrument ( $\pm 2$  notes, 399 steps). The ♭ button is used to lower the musical pitch while the ♯ button is used to heighten the pitch. To return to the normal pitch, press the □ button. When the musical pitch is lowered less than -99 steps, the ♭ and □ indicators light up and when the musical pitch is heightened more than 99 steps, the □ and ♯ indicators light up.

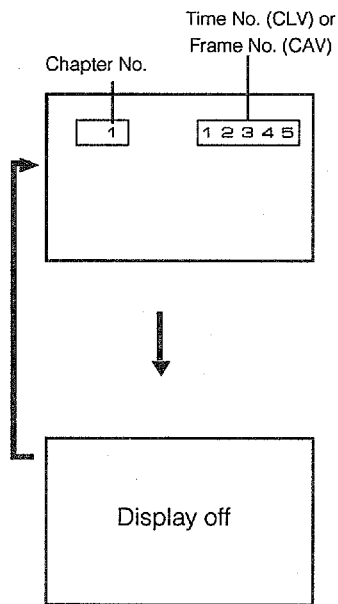
## Display switching on the monitor screen



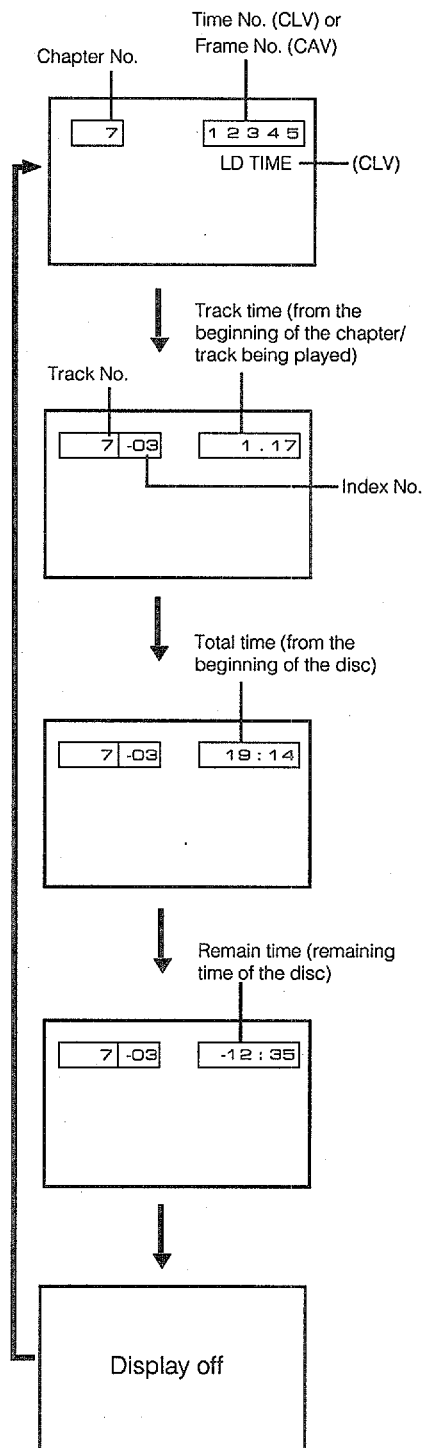
Each time the DISPLAY key on the remote control transmitter is pressed during play mode, the time display changes in the order shown below.

- The chapter/track no. and index no. being paused or played is also displayed.

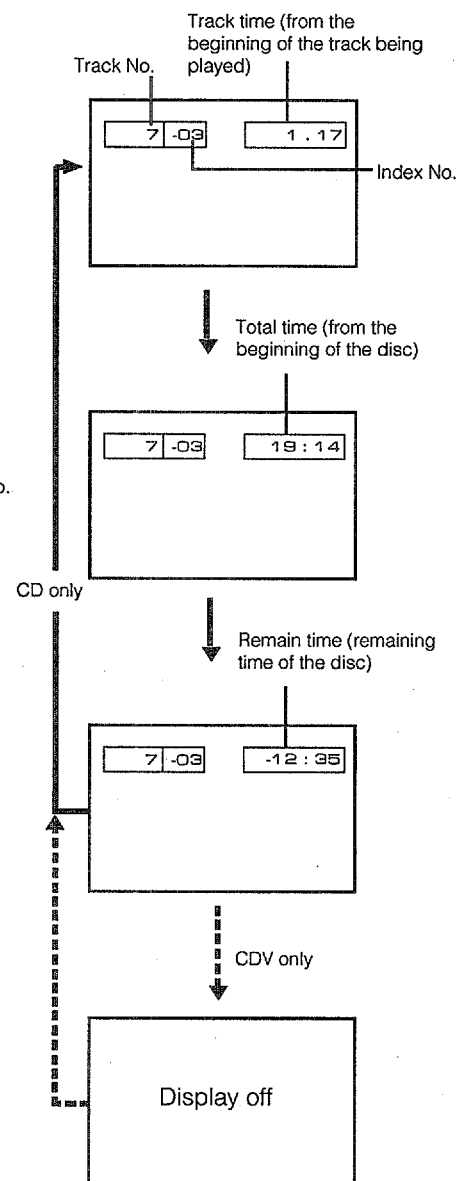
With LD discs



With CDV-LD discs



With CD and CDV discs



### Chapter number

Chapter numbers are used to indicate the boundaries of the sections on an LD disc, similar to the "chapters" in a book.

- Some discs are not provided with chapters.

### Frame number

Frame numbers are the numbers assigned to each picture frame on a CAV disc.

### Time number

Time numbers indicate the time elapsed (in minutes or in minutes and seconds) from the beginning of a CLV disc.

**NORMAL PLAY**

**Selecting the sound mode**

When the power is turned on, the player is in stereo mode. Thus, when playing a disc having bilingual sound tracks, both languages are output. In this case, press the SOUND key on the remote control transmitter so that only the desired language is obtained. Every time the SOUND key is pressed, the output channel changes in the following order: 1 / L Channel → 2 / R Channel → STEREO (When this key is first pressed, the mode is displayed on the monitor screen. Press it again to change to the next mode.)


**[Reproduced sound mode]**


| Output channel display (Monitor screen) | VHF OUT output                | AUDIO SIGNAL output |     |
|---|-------------------------------|---------------------|-----|
|   |                               | L                   | R   |
| STEREO                                  | Mixture (mono) of 1/L and 2/R | 1/L                 | 2/R |
| 1/L-CH                                  | 1/L                           | 1/L                 | 1/L |
| 2/R-CH                                  | 2/R                           | 2/R                 | 2/R |

\* When the disc tray is opened and closed again, the selected sound track mode is cancelled and Stereo mode is automatically selected.

**Selecting the digital/analog audio signal**

With CDV-LD and some LD discs, the audio signal is recorded in both digital and analog format and the audio signal can be selected (refer to the disc jacket). With these discs, the digital signal is first selected automatically. To select the analog audio signal, press the DIGITAL/ANALOG•CX key.

**• Playing a disc bearing the  mark**

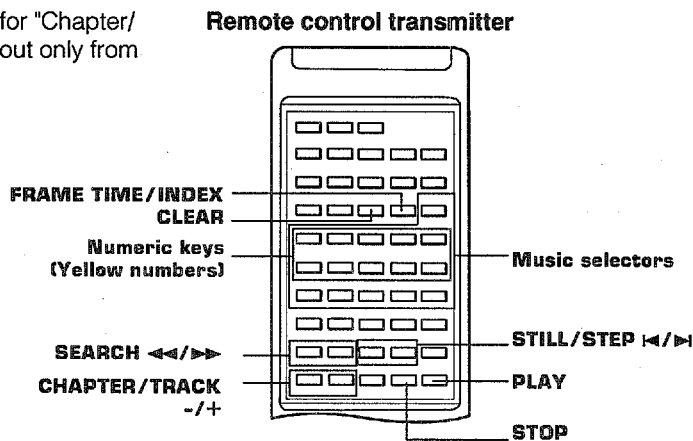
With a disc bearing the  mark, the contents recorded in analog and digital formats differ. With these discs, set the SOUND key and DIGITAL/ANALOG•CX key to select the desired audio signal.

| Disc \ Audio signal   | Digital signal   | Analog signal  |
|---|--|--|
| Multi audio karaoke discs with digital audio bearing  mark | 1/L channel: stereo karaoke<br>2/R channel: stereo karaoke | 1/L channel: karaoke (monaural)<br>2/R channel: music + vocal (monaural) |
| Movie, animation  | Audio of the main program                                  | Soundtrack   |
| Dual music  | Music 1  | Music 2  |
| Hi-Fi multiplexed stereo karaoke  | Sing along   | Support, Sub vocal   |
| Bilingual   | 1st language   | 2nd language   |
| Tri-lingual   | 1 st language  | 1L channel: 2 nd language<br>2R channel: 3 rd language                   |
| Quad-lingual  | 1L channel: 1st language<br>2R channel: 2nd language       | 1L channel: 3rd language<br>2R channel: 4th language                     |

\* On some bilingual discs, the contents are recorded as an analog signal only.

# SEARCH OPERATION

The search operations except for "Chapter/Track Search" can be carried out only from the remote control transmitter.



To search for a desired section  
.....Scan Search

To fast-forward play

To fast-reverse play



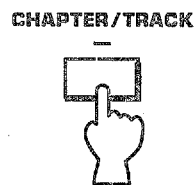
The picture is fast-forwarded or fast-reversed and seen on the monitor screen.  
For the first 3 seconds after the key is pressed, playback is performed 15 times faster than normal speed.  
Then, play is advanced 60 times faster.  
In this mode, sound from an LD/CDV-LD or the video section of a CDV is not produced. When playing a CLV or the video section of a CDV, the picture may fluctuate on the screen.

To skip to the beginning of a chapter/  
track .....Chapter/Track Skip

To skip to the beginning of the next chapter/track



To skip to the beginning of the current chapter/track



To skip to the beginning of a chapter/track located before the current chapter/track, press this key a number of times. The play position skips to the chapter/track which corresponds to the number of times the key is pressed.

## Notes on the chapter/track skip function

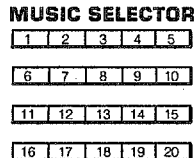
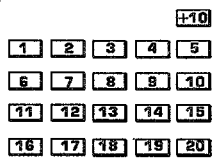
- \* Chapter skipping on an LD does not function for discs without chapter numbers.
- \* When these keys are pressed during program play, play moves to the next or previous programmed selection.

**To search for a desired chapter/track by designating the chapter/track number  
.....Chapter/Track Search**

Press the corresponding music selectors.

(Remote control transmitter)

(The player)



or



For example, to search for chapter or track 8:



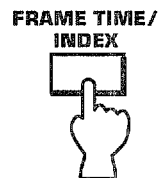
The player enters search mode, and chapter or track 8 is played from the beginning.

**To search for a desired scene by designating the frame number  
.....Frame Number Search (CAV)**

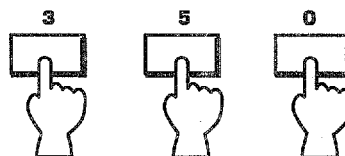
With this function, the picture of the designated frame number is located, and can be played in normal or still mode.

To search for frame number 350

**1** Press the FRAME TIME/INDEX key so that "FRAME" appears on the monitor screen.



**2** Specify the frame number with the numeric keys (Yellow numbers).



- Only the yellow number keys function.
- If you make a mistake during entry, press the CLEAR key and then the correct numeric keys.

**3**



The picture plays from the designated frame number point.

- When a still picture is desired, press the STILL/STEP key (◀ or ▶) instead of the PLAY key.

The picture at the designated frame number is played in still mode. In this mode, picture may be fluctuated.

**To select chapter/track No. 21 or above:**

Use the +10 key.

Example: To select No. 25, press "+10" twice and then "5".

To select No. 30, press "+10" twice and then "10".

**Note on the chapter/track search function**

If the chapter, frame (CAV), or time (CLV) numbers exceed the recorded numbers and a search is performed, the outer edge (the end of the current program side) is reached and "END" is displayed.

**To search for the desired index by specifying the track and index numbers (with CDs, CDVs having index numbers)**

Example: To start at track 3, index 2

1. Press the STOP key on the remote control transmitter to set the player to stop mode.
2. Press the 3 numeric key to specify the track number. 3 is indicated on the display.
3. Press the FRAME-TIME/INDEX key on the remote control transmitter. The INDEX indicator on the display blinks.
4. Press the 2 numeric key to specify the index number.
5. Press the PLAY key. Play starts at track 3, index 2.

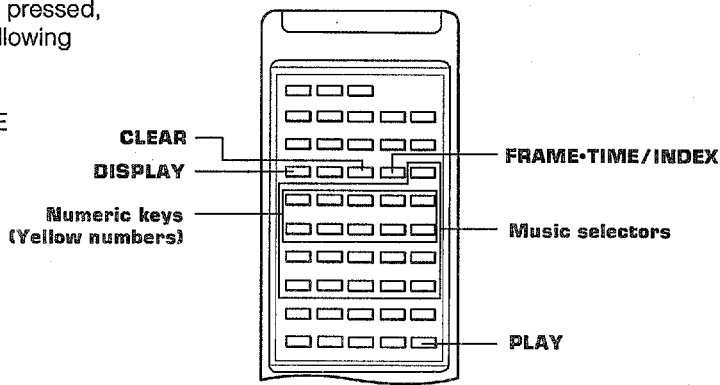
**To search for the desired index of the track being played (with CDs, CDVs having index numbers)**

Example: To search for index 2

1. Press the FRAME-TIME/INDEX key on the remote control transmitter.
2. Press the 2 numeric key.
3. Press the PLAY key on the remote control transmitter.  
The player searches for index 2 of the CD or CDV and play starts at the beginning of index 2.

**Remote control transmitter**

Each time the DISPLAY key is pressed, the display changes in the following order:  
 (LD TIME) ⇒ TRACK TIME ⇒ TOTAL TIME ⇒ REMAIN TIME



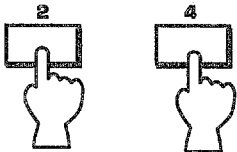
**To play from a desired scene by specifying the time number**  
 ..... Time Number Search (CLV)

**Example:** To search for the picture located 24 minutes from the beginning of the disc when the time is indicated in "minutes"

**1** Press the FRAME·TIME/INDEX key so that "TIME" appears on the monitor screen.



**2** Specify the time with the numeric keys (Yellow numbers).



**3**



The picture is played from the 24 minutes elapsed time position.

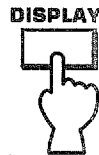
**Example:** To search for the picture located 24 minutes and 30 seconds from the beginning of the disc when the time is indicated in "minutes" and "seconds"

● In step 2 above, press the 2, 4, 3 and 0 keys.

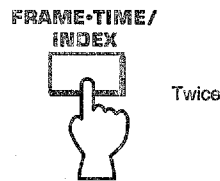
**To play from the specified total time/remain time/track time**  
 ..... Time Search (CD, CDV, CDV-LD)

**Example:** To search for the point located 24 minutes and 30 seconds from the beginning of the disc

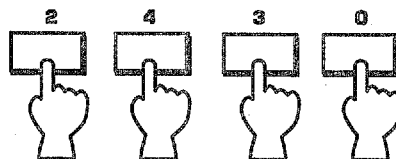
**1** Press the DISPLAY key so that "TOTAL TIME" appears on the monitor screen.



**2**



**3** Specify the time with the numeric keys (Yellow numbers).



**4**



Play starts at the point located 24 minutes and 30 seconds from the beginning of the disc.

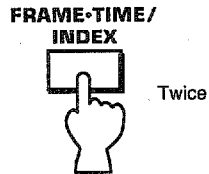
## SEARCH OPERATION

**Example: To search for the point located 4 minutes and 30 seconds from the end of the disc**

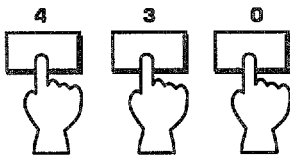
- 1 Press the DISPLAY key so that "REMAIN TIME" is displayed on the monitor screen.



2



- 3 Specify the time with the numeric keys (Yellow numbers).



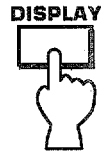
4



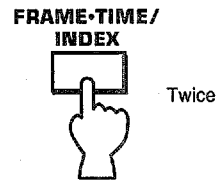
Play starts at the point located 4 minutes and 30 seconds from the end of the disc.

**Example: To search for the point located 4 minutes and 30 seconds from the beginning of track 2  
Play track 2 beforehand.**

- 1 Press the DISPLAY key so that "TRACK TIME" is displayed on the monitor screen.

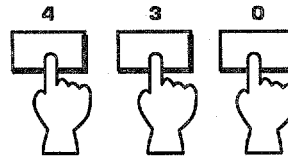


2



"TIME" appears on the monitor screen.

- 3 Specify the time with the numeric keys (Yellow numbers).



4



Play starts at the point located 4 minutes and 30 seconds from the beginning of track 2.

### To cancel the time search

Press the CLEAR key twice on the remote control transmitter.

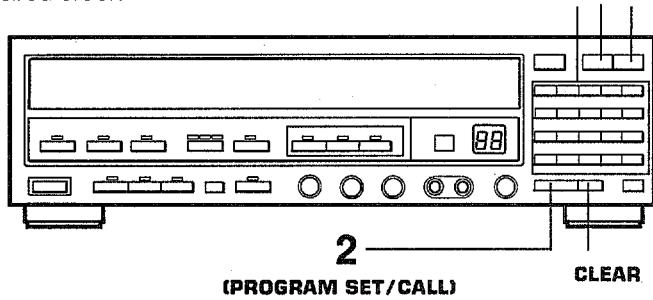
### To correct an input digit

After specifying the time, press the CLEAR key on the remote control transmitter, and then press the numeric keys to specify the desired digit.

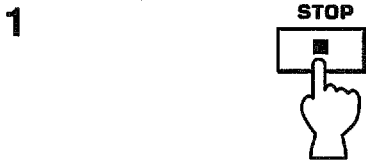
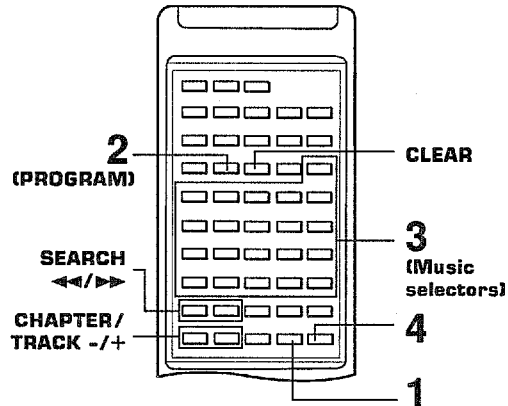


# PROGRAM PLAY

With this function, you can play up to 15 chapter/tracks in any desired order. **3 1 4**

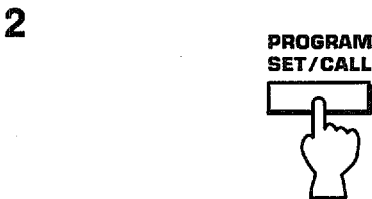


## Remote control transmitter



The specified chapter or track number is displayed on the monitor screen.

- If chapter/track No. 26 or above is programmed, total time is not displayed on the monitor screen.

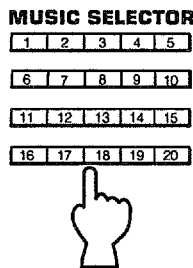


"PROGRAM" is displayed on the monitor screen and one white box and 14 black boxes appear on the screen.



Playback automatically pauses after one song is played only in karaoke mode. To play the next song, press the PLAY button.

**3 Specify the chapter (CDV-LD, LD) or track (CD, CDV, CDV-LD) numbers in the desired order.**



- To select another song in the program, press the CHAPTER/TRACK +/- key on the remote control transmitter during program play with the setting of the display off. If the player is in pause mode, press the PLAY button beforehand.
- When the SEARCH << key is kept pressed, playback position returns to the beginning of the chapter/track being played. When the SEARCH >> key is kept pressed, the player enters stop mode at the end of the last programmed chapter/track.
- With discs having no chapter/track numbers, program play does not function.

**When a program is specified during playback**  
Press the STOP button and then the PLAY button to start the specified program.

**To check the program**  
To check the program, press the PROGRAM button during playback so that the program display appears on the monitor screen. The program number being played is indicated in the white box. Press this button again to set the program display off.

- To correct the program**
1. Press the PROGRAM button so that the program display appears on the monitor screen.
  2. Every time the CLEAR button is pressed, the last programmed chapter/track number is deleted.
  3. Specify the chapter or track number(s) again.

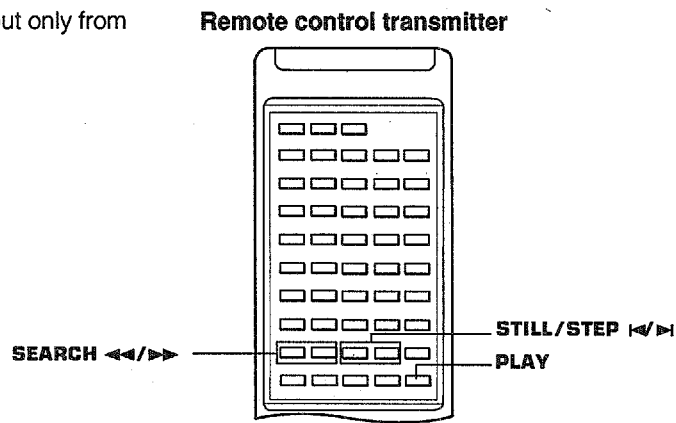
- To add to the program**
1. Press the PROGRAM button so that the program display appears on the monitor screen.
  2. Press the chapter/track number with the numeric buttons during program play. The programmed number is added in the last position.

**To play a track/chapter other than the programmed track/chapter in the middle of program play**  
Specify the track/chapter number you want to play with the music selectors when the program display is off. When the specified track/chapter is finished, the remaining programmed tracks/chapters continue to be played.

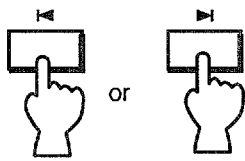
**To erase the program**  
Turn the power off or open the disc tray.

## STILL/STEP PLAY (CAV)

Still/step play can be carried out only from the remote control transmitter.



### Still play



The picture will be frozen where the button is pressed.

#### ● Fast forward/reverse in still mode

In still mode, when the SEARCH >>> key is pressed, the picture is fast-forwarded, and re-enters still mode when the key is released.  
In the same way, when the SEARCH <<< key is pressed, the picture is fast-reversed, and re-enters still mode when the key is released.

#### ● To resume normal play



### Step play

#### Forward direction



After entering still mode by pressing the >|> key, the picture is advanced frame-by-frame every time the >|> key is pressed.  
When the key is kept pressed, the still picture is advanced continuously.

#### Reverse direction



After entering still mode by pressing the <|< key, the picture is reversed frame-by-frame every time the <|< key is pressed.  
When the key is kept pressed, the still picture is reversed continuously.

#### ● To resume normal play

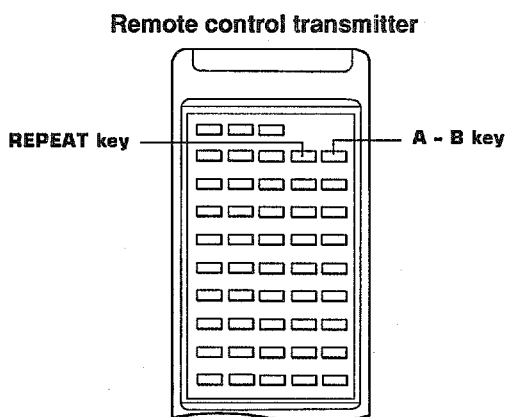


#### NOTE:

During still play or step play, the sound will not be heard.

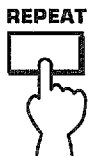
## REPEAT PLAY

Repeat play can be carried out only from the remote control transmitter. Each time the REPEAT key is pressed, the repeat mode changes in the following order: ONE → ALL → OFF



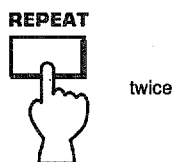
### To repeat a single chapter/track

During play of the chapter/track to be repeated:



Press the REPEAT key so that "REP ONE" appears on the monitor screen. The current chapter/track is played repeatedly.

### To repeat the entire side of the disc



Press the REPEAT key so that "REP ALL" appears on the monitor screen. The entire side of the disc is played repeatedly.

### A-B repeat play

At the beginning of the interval you want to play repeatedly:



At this time, point A is designated.

At the end of the interval you want to play repeatedly:



At this time, point B is designated. Then the interval between points A and B is played repeatedly.

#### Program repeat

During program play, single or entire program repeat is possible, but A-B repeat cannot be carried out.

#### To cancel repeat play

Press the REPEAT key so that "REP OFF" appears on the monitor screen. Single and A-B repeat modes are also cancelled when the disc tray is opened or when the power is turned off.

#### NOTES:

- Entire side repeat cannot be carried out in karaoke mode.
- With CDVs, A-B repeat play cannot be carried out between the video part and audio part. Specify points A and B within the video part or within the audio part.

## SPECIFICATIONS

### FORMAT

**System (or Type):** ..... Optical videodisc system  
complies with MCA/Philips  
specifications (Laservision system)

**Signal** ..... NTSC format

### INPUT/OUTPUT TERMINALS

**ANT input** ..... VHF, F-type jack (75-ohms,  
unbalanced)

**VHF output** ..... Channel H or L switchable  
F-type jack (75-ohms, unbalanced)

**Video output** ..... 1 Vp-p (75-ohms load, sync. negative)  
RCA pin jack

#### Audio output (right and left channels)

Analog: 200 mV r.m.s. (1kHz, 40% Modulation)

Digital: 200 mV r.m.s. (1kHz, -20 dB)

Stereo pin jacks

#### TAPE input:

**Input sensitivity/impedance** .... 200 mV r.m.s./50 kohms  
(output 200 mV r.m.s.)

**Maximum input level** ..... 2 V r.m.s.

#### TAPE output:

**Output voltage/impedance** ..... 200 mV r.m.s./1.1 kohms

#### AUX input:

**Input sensitivity/impedance** .... 200 mV r.m.s./50 kohms  
(output 200 mV r.m.s.)

**Maximum input level** ..... 2 V r.m.s.

#### MIC input :

**Input sensitivity/impedance:** ..0.74 mV r.m.s./12 kohms  
(output 200 mV r.m.s.)

**Maximum input level** ..... 21 mV r.m.s. (audio output)

### Video signal characteristics

**Horizontal resolution** ..... 425 lines

**Signal to noise ratio (Y signal)** ..... 47 dB

### Audio signal

**Frequency response:** ..... 20 Hz to 20 kHz, +0.5, -1.0 dB  
(digital)

**Signal to noise ratio:** ..... 100 dB (digital, IHF-A)  
70 dB (analog, IHF-A)

**Dynamic range:** ..... 90 dB (digital)

**Distortion rate:** ..... 0.04 % (1 kHz, 0 dB, digital)

**Channel separation:** ..... 90 dB (1 kHz, digital)

**De-emphasis deviation:** .....  $\pm 0.5$  dB (digital)

**Output impedance:** ..... 1.1 kohms

### GENERAL

**Power requirements** ..... AC110 - 120/220 - 240 V,  
50/60Hz

**Power consumption** ..... 35 W

**Weight** ..... 9 kg (19 lb 13 oz)

**Dimensions** ..... 430 (W) x 114 (H) x 419 (D) mm

**Operative temperature/**

**humidity range** ..... +5 to 35°C (41 to 95°F)/0 to 90%  
(No condensation)

### ACCESSORIES

Remote Control Transmitter x 1

Size "AA, R06" battery x 2

75-ohm/300-ohm antenna adapter x 1

Caxial cable with F-type connector x 1

Audio cord x 1

Video cord x 1

## TROUBLESHOOTING


If this unit functions abnormally during operation, first check the following items. If the unit continues to function abnormally, or if an abnormality appears other than listed below, turn off the player's power and disconnect the AC plug, then consult your YAMAHA dealer or servicing personnel.

### Karaoke play

| SYMPTOM  | POSSIBLE CAUSE   | REMEDY   |
|--|--|--|
| <b>No picture/sound.</b>                                     | The TV/DISC selector is set to the TV mode.                              | Set it to the DISC mode.   |
| <b>The MPX BAL control does not function.</b>                | The KARAOKE/NORMAL selector is set to NORMAL mode.                       | Set it to the KARAOKE mode.  |
|  | CD or CDV is played with the AUDIO MODE selector set to the STEREO mode. | Set it to the ST. MPX or MPX mode.   |
| <b>Stereo multiplexed sound is not possible.</b>             | The AUDIO MODE selector is set to the STEREO mode.                       | Set it to the ST. MPX mode.  |
|  | A multi audio karaoke disc with digital audio is not used.               | The ST.MPX function is available only with multi audio karaoke discs with digital audio. |
| <b>The one touch karaoke function cannot be carried out.</b> | Monaural source is played.   | Use a stereo source.   |
|  | The AUDIO MODE selector is set to the MPX mode.                          | Set it to the STEREO mode.   |
| <b>The vocal changer function cannot be carried out.</b>     | The volume level of the microphone is low.                               | Turn up the volume of the microphone with the MIC 1 or MIC 2 control.                    |
|  | The singing voice level is too small.                                    | Sing louder.   |
| <b>The KEY CONTROLS do not function.</b>                     | The indicator of the VOCAL CONTROL button is lit.                        | Press the VOCAL CONTROL button to turn off the indicator.                                |
| <b>The vocal part of a multiplexed disc is not heard.</b>    | The ONE TOUCH KARAOKE button is pressed.                                 | Set the one touch karaoke mode off.  |
|  | The MPX BAL control is set to the MUSIC side.                            | Set the MPX BAL control to the VOCAL side.   |
| <b>The AUDIO MODE selector does not function.</b>            | The SOUND is set to 1/L or 2/R channel mode.                             | Press the SOUND key to set the stereo mode.  |

**TROUBLESHOOTING**

**Normal play**  
**<Audio>**

| SYMPTOM   | POSSIBLE CAUSE  | REMEDY  |
|---|---|---|
| <b>Playback does not start although a disc has been set in place.</b> | The disc is placed upside down.   | Place the disc with the labeled side facing up.                             |
|   | The disc is very dirty.   | Clean the disc.   |
| <b>Sound is not reproduced.</b>                                       | Connections are incorrect.  | Connect equipment properly again.   |
|   | The volume control of the amplifier, receiver or TV connected is set at the minimum position.   | Adjust the volume control of the amplifier, receiver or TV as required.     |
|   | Audio cord connections are incorrect.   | Connect the audio cords properly.   |
| <b>The sound is unnatural.</b>  | A disc with the  mark is being played with the DIGITAL/ANALOG•CX key set to OFF. | Press the DIGITAL/ANALOG•CX key so that "CX-ON" is displayed on the screen. |

**<Video>**

| SYMPTOM  | POSSIBLE CAUSE   | REMEDY   |   |
|--|--|--|---|
| <b>The disc is turning, but no picture is played.</b>              | The TV power is OFF.   | Turn the power of the TV ON.   |   |
|  | Connections are incorrect.   | Connect equipment properly again.  |   |
|  | When the VHF connection is performed.                                    | The output channel used by this unit is different from the vacant TV channel.                    | Set the TV channel to the vacant channel, then set the CHANNEL switch of this unit to "H" or "L" so that the picture appears on the monitor screen. |
|  |  | The TV/DISC selector is set to TV.   | Press the TV/DISC selector.   |
| <b>TV programs (VHF broadcast) cannot be seen.</b>                 | The VHF antenna connection is incorrect.                                 | Connect the VHF antenna properly.  |   |
|  | The TV/DISC-selector is set to DISC.                                     | Press the TV/DISC selector.  |   |
| <b>TV programs (UHF broadcast) cannot be seen.</b>                 | The UHF antenna is connected to the ANT IN jack of this unit.            | Connect the UHF antenna directly to the UHF input terminal of the TV.                            |   |
| <b>Still-frame-advance play and frame search are not possible.</b> | The disc being played is a CLV disc.                                     | CLV discs do not allow still/step play and frame search.   |   |
| <b>Chapter skip and chapter search are not possible.</b>           | The chapter no. has not been recorded on the disc being played.          | Press the DISPLAY key on the remote control transmitter and see if any chapter no. is displayed. |   |
| <b>With a CDV disc, A-B repeat play is not possible.</b>           | The points A and B are designated between the audio part and video part. | Designate points A and B within either the audio part or video part.                             |   |
| <b>TV program reception is poor, or the picture is fluctuated.</b> | The TV signal in your area is weak.                                      | When viewing TV programs, turn this unit OFF.  |   |
| <b>The picture quality is poor, or it is distorted.</b>            | The disc is very dirty.  | Clean the disc.  |   |
|  | The disc is deformed (warped, etc.).                                     | Straightening the disc may sometimes reduce the deformation.                                     |   |

**General**

| <b>SYMPTOM</b>  | <b>POSSIBLE CAUSE</b>   | <b>REMEDY</b>   |
|---|---|---|
| <b>Power cannot be turned on.</b>   | The power cord is disconnected from the power outlet.                                       | Insert it firmly.   |
| <b>Playback cannot be started.</b>  | No disc has been loaded.  | Load a disc.  |
| <b>The disc table comes out involuntarily.</b>  | The disc is very dirty.   | Clean the disc.   |
|   | The disc is deformed (warped, etc.).  | Straightening the disc may sometimes reduce the deformation.                        |
|   | A one-sided disc may be placed upside down.   | Place the disc with the label on which the required program is indicated facing up. |
| <b>The remote control transmitter cannot be operated.</b>   | The batteries inside the remote control transmitter are exhausted.                          | Replace the batteries.  |
|   | The remote control transmitter is operated from an incorrect distance or angle.             | Operate it from less than 7 meters (about 20 ft.) and within an angle of 30 °.      |
| <b>The TV is operated erroneously when the remote control transmitter of this unit is operated.</b> | The TV used is equipped with a wireless remote control and the TV is placed near this unit. | Place the TV and this unit apart, or cover the remote sensor of the TV.             |
| <b>A hum noise is heard.</b>  | The output cord plug is connected improperly.   | Insert the output plug securely.  |
| <b>The tuner is interfered with noise.</b>  | The tuner is placed near this unit.   | Place this unit apart from the tuner, or turn the power of this unit OFF.           |

# YAMAHA

---

**YAMAHA ELECTRONICS CORPORATION, USA** 6722 ORANGETHORPE AVE., BUENA PARK, CALIF. 90620, U.S.A.  
**YAMAHA CANADA MUSIC LTD.** 135 MILNER AVE., SCARBOROUGH, ONTARIO M1S 3R1, CANADA  
**YAMAHA ELECTRONIK EUROPA G.m.b.H.** SIEMENSSTR. 22-34, D-2084 RELINGEN BEI HAMBURG F.R. OF GERMANY  
**YAMAHA ELECTRONIQUE FRANCE S.A.** 17 RUE DES CAMPANULES, LOGNES 77321 MARNE LA VALLEE CEDEX 2 FRANCE  
**YAMAHA ELECTRONICS (UK) LTD.** YAMAHA HOUSE, 200 RICKMANSWORTH ROAD WATFORD, HERTS WD1 7JS, ENGLAND  
**YAMAHA SCANDINAVIA A.B.** J A WETTERGRENS GATA 1, BOX 30053, 400 43 VASTRA FRÖLUNDA, SWEDEN  
**YAMAHA MUSIC AUSTRALIA PTY, LTD.** 17-33 MARKET ST., SOUTH MELBOURNE, 3205 VIC., AUSTRALIA

**YAMAHA CORPORATION**

10-1 NAKAZAWA-CHO, HAMAMATSU, JAPAN  
VK17400-0 BWWBL,W Printed in Japan ©