

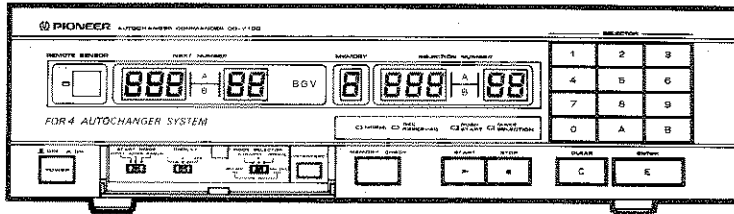
# CO-V100

PAL/NTSC

English

Français

**AUTOCHANGER COMMANDER**  
**DISPOSITIF DE COMMANDE DE CHANGEUR AUTOMATIQUE**



## IMPORTANT



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

### CAUTION

**RISK OF ELECTRIC SHOCK**  
**DO NOT OPEN**

**CAUTION:**  
**TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## IMPORTANT

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last, make sure that the power switch is off.

### THIS APPARATUS MUST BE EARTHED.

### FOR USE IN THE UNITED KINGDOM

If the socket outlets in the home are not suitable for the plug supplied with this apparatus, it should be cut off and an appropriate three pin plug fitted. The plug severed from the mains lead must be destroyed as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow : Earth  
Blue : Neutral  
Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows. The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  $\perp$  or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

*"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."*

**CAUTION:** Be sure to use the shielded interface cables when connecting this equipment to other devices.

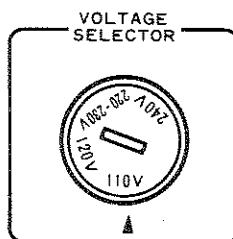
Thank you for buying this PIONEER product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

### LINE VOLTAGE SELECTOR SWITCH

The line voltage selector switch is located on the rear panel of this commander. Before your commander is shipped from the factory, the switch is set to the power requirements of the commander's destination. Check that it is set properly before plugging the power cord into the outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows:

Use a medium-sized (flat blade) screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it to set the commander to power voltage of your area.



Set the selector so that arrow points power voltage of your area. (Figure shows arrow pointing to 110 volts.)

# CONTENTS

|                                     |    |   |    |
|-------------------------------------|----|---|----|
| FEATURES .....                      | 4  | CARE OF DISCS .....                         | 18 |
| ACCESSORIES .....                   | 4  | LOADING AND EXCHANGING DISC .....           | 19 |
| PRECAUTIONS .....                   | 5  | KARAOKE OPERATION .....                     | 23 |
| MAINTENANCE .....                   | 5  | BGV REPRODUCTION .....                      | 27 |
| SYSTEM CONNECTION EXAMPLE .....     | 6  | DISPLAY DURING INTERVAL BETWEEN SONGS ..... | 28 |
| CO-V100 PANEL FACILITIES .....      | 7  | ADVERTISING SEND FUNCTION .....             | 33 |
| REMOTE CONTROL UNIT OPERATION ..... | 12 | TROUBLESHOOTING .....                       | 35 |
| OPERATION OF THE LC-V100 .....      | 15 | SPECIFICATIONS .....                        | 36 |
| INITIAL SCREEN .....                | 17 |   |    |

## FEATURES

### A maximum of four LC-V100 AutoChangers can be connected in a system.

A maximum of four LC-V100 AutoChangers can be connected to your system by using a communication interface, audio cables and video cables. Your system range can be increased considerably with this simple connection.

### Normal operating mode (except karaoke < sing-along >).

When the COIN/BILL BOX MODE switch located on the rear panel is set to OFF, all 50 trays of the LC-V100 can be used for standard replay of discs (except karaoke). Thus, the CO-V100 allows your system to be used with operating modes other than karaoke.

### Various functions for playing back video image between songs.

When not using the karaoke mode, shop information (input via the CO-V100) can be displayed on the TV monitor. Also, you can display the "karaoke bird" symbol on the monitor during intervals — after playback of a song is completed and until the next song begins.

### Can play back Advertise discs

Setting the ADV MODE switch located on the rear panel to ON will allow you to use "Advertise" discs for advertisement purposes. The playback frequency can be output from the DATA terminal via the RS-232C interface.

### Can play back NTSC discs

The signal format for playing back NTSC discs can be set via the TV SYSTEM switch located on the rear panel.

### The CD/CDV/LD 50 Disc AutoChanger System Commander can load up to 50 CD's, CDV's or LD's.

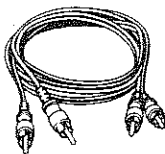
## ACCESSORIES

————— Check the following accessories.

- Video cable  
(pin-plug ↔ pin-plug)



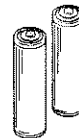
- Audio cable  
(pin-plug × 2 ↔ pin-plug × 2)



- Remote control unit (CU-V132)



- Size "AA" (R6/UM-3) battery × 2



- Operating instructions × 2

# PRECAUTIONS

## SYSTEM INSTALLATION

When setting up two AutoChangers, do not stack them, since they may collapse; the housings are not designed for this purpose.

Select a flat and stable location for installation. Avoid installing in the following locations:

- ① Exposed to direct sunlight
- ② Exposed to moisture and dust
- ③ Near the rest room (washroom) and kitchen
- ④ Exposed to a spot light
- ⑤ Near heavy-duty electric appliances, such as a refrigerator, dimmer, or air conditioner
- ⑥ On an unstable and uneven floor (Insert a hard board under the casters to fill the floor gap)
- ⑦ A place not convenient for repair service and maintenance.

When installing the system next to a wall, keep a enough space to reach the rear side with your hand.

## CONDENSATION

### (Relative to the AutoChanger)

Do not quickly change the ambient temperature near the unit to prevent moisture condensation. If this system is brought from the outside into an air-conditioned room, or if the temperature of the room with this system is rapidly increased in winter, moist air will condense in the unit's operating section and cause poor system performance. If moisture condenses on the AutoChanger lens, signals cannot be read or reproduced by the laser beam. When air-conditioning the room equipped with the system, gradually change the room temperature.

### If condensation occurs

Leave the system at the room temperature for one to two hours until the condensation is removed before operating the unit.

## POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

# MAINTENANCE

## EXTERIOR PARTS INCLUDING CABINETS AND PANELS

Wipe the cabinets and panels with a soft dry cloth. If a cabinet or panel is extremely dirty, wipe with a soft cloth moistened with neutral detergent diluted five or six times with water, then wipe off the moisture with a dry cloth. Do not use volatile chemicals such as benzine, thinner, or insecticide which will damage the cabinet and panel surfaces.

## DISC (Relative to the AutoChanger)

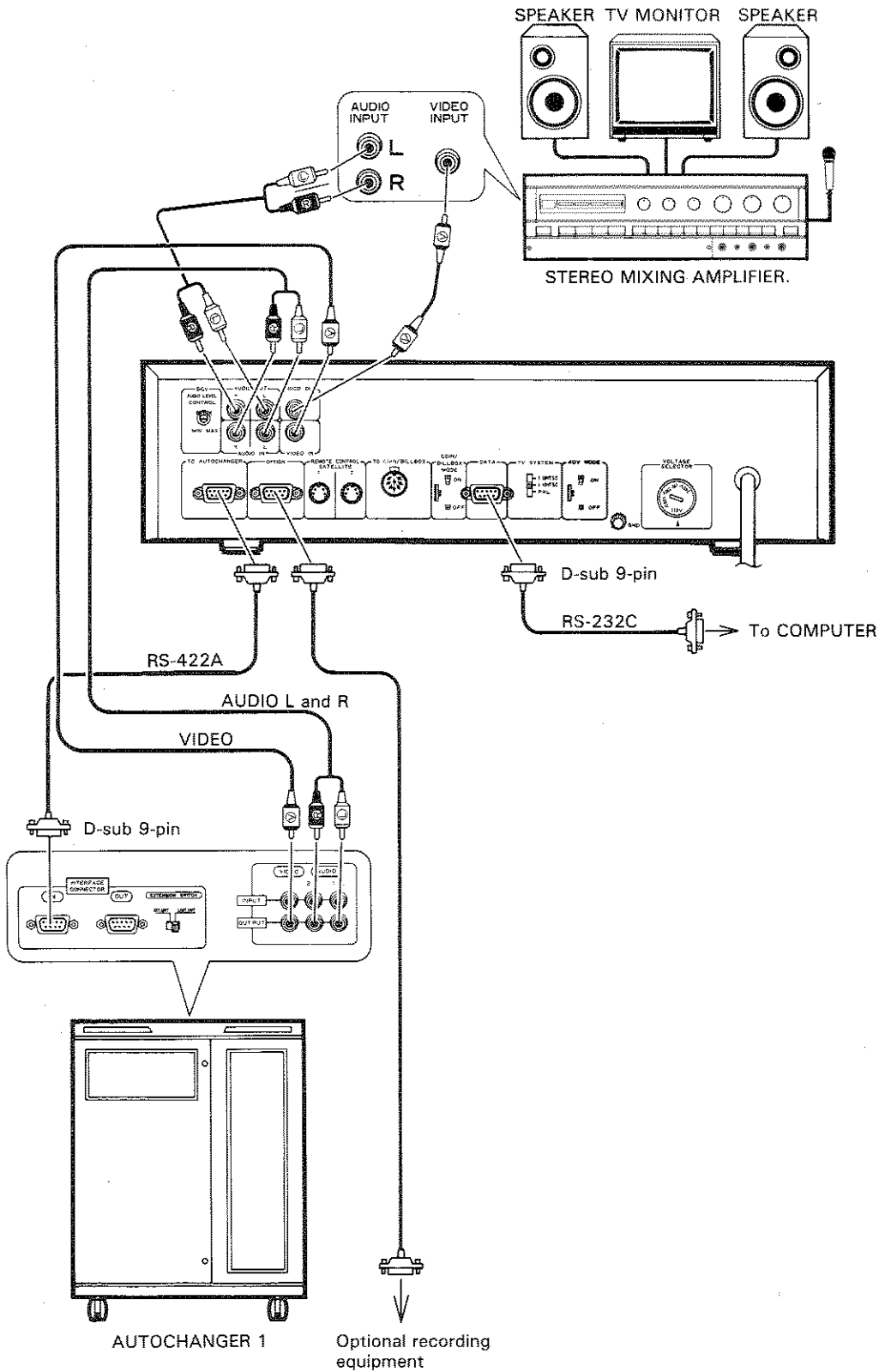
With long-term use the Videodiscs will accumulate dust and smoke on their surface, resulting in poor quality reproduction.

Clean the discs periodically.

See page 18 for the cleaning procedure.

# SYSTEM CONNECTION EXAMPLE

LC-V100 AutoChanger, CO-V100 commander, mixing amplifier .



## SYSTEM CONNECTION EXAMPLE

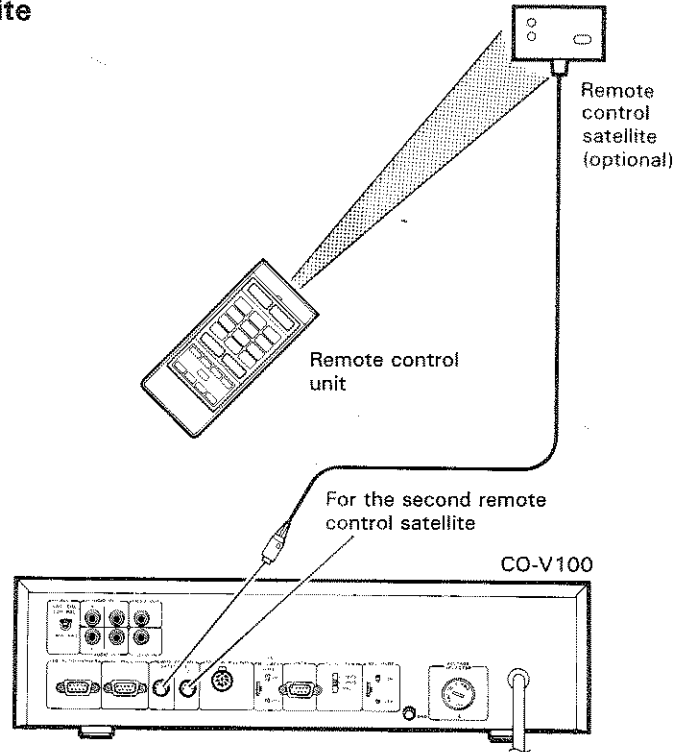
### Connecting the optional remote control satellite

The commander can be used for transmitting the selected tune numbers, which are remote control unit to the sensor of the remote control satellite.

The remote control satellite can receive signals within a range of 5 m and an angle of 30 degrees up, down, right and left. Therefore, install the remote control satellite by considering these factors.

If there is lighting equipment near the remote control satellite, light from this equipment may cause noise and interfere with the signals from the remote control unit reduce the signals receiving range. Check for noise using the service mode before installing the satellite.

If you cannot find a suitable installation location not affected by noise, mounting the supplied filter will reduce noise interference.



# CO-V100 PANEL FACILITIES

## FRONT PANEL

### POWER switch ( ON, OFF)

Pressing the switch turns the power on, and releasing the switch turns the power off.

### REMOTE indicator

Lights up when the REMOTE SENSOR receives a signal from the remote control unit.

### REMOTE SENSOR

Receives a signal from the remote control unit at a distance up to 5 m. See page 12 for battery installation and use of the remote control unit.

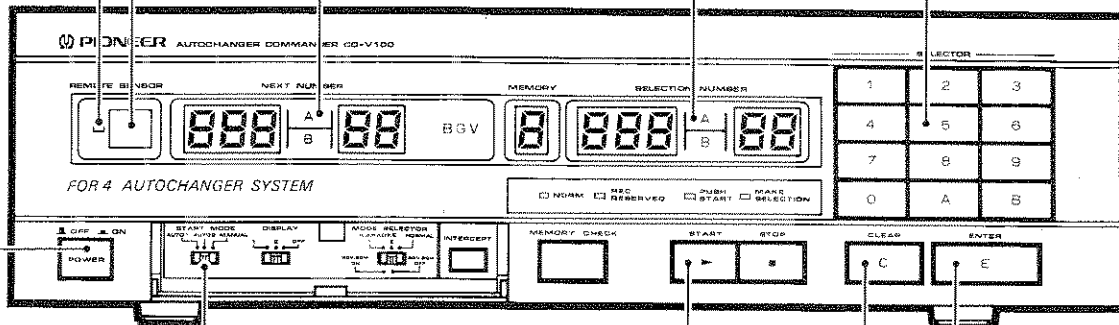
### NEXT NUMBER indicator

Shows the song number to be played next. If the ENTER (E) button is pressed when the first song is memorized (shown by the SELECTION NUMBER indicator), the number is shown on the indicator. When playing of the indicated song starts, the number of the next song to be played is shown.

### SELECTION NUMBER indicator

Pressing a SELECTOR button shows the selected song number. In memory check mode, it indicates the memorized song numbers.

### SELECTOR buttons (0 to 9, A, B)



### START MODE switch

- **AUTO 1** — Automatically plays memorized songs at intervals of about 5 seconds.
- **AUTO 2** — Automatically plays memorized songs at intervals of 20 seconds.
- **MANUAL** — Requires pressing the START button to start playing the next song after playback of the prior song ends.

### START button

- Use to start playback when the MANUAL mode is specified by the START MODE switch.
- The START button can be used as reset button during playback (within 30 seconds after starting playback, up to three times consecutively).

### ENTER (E) button

- To memorize songs.
- When in the reserve confirm mode, used together with the CLEAR (C) button, it serves to clear reserved tunes.

### CLEAR (C) button

If this button is pressed prior to pressing the ENTER button after a song number has been selected, the song number can be canceled. The song number blinking on the NEXT NUMBER indicator can be canceled in reselection mode.

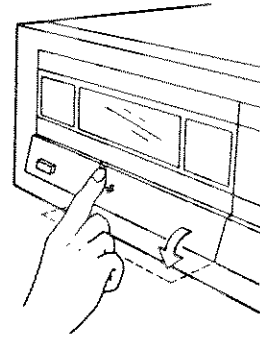
## CO-V100 PANEL FACILITIES

### MODE SELECTOR switch

- **KARAOKE 1** — Outputs both images and sound during BGV disc playback.
- **KARAOKE 2** — No BGV disc playback.
- **NORMAL** — Plays back discs when the system is used in the free-of-charge mode. Plays back karaoke discs as well as discs other than karaoke.

### [How to open]

Push the upper space of the door label  
PUSH TO OPEN

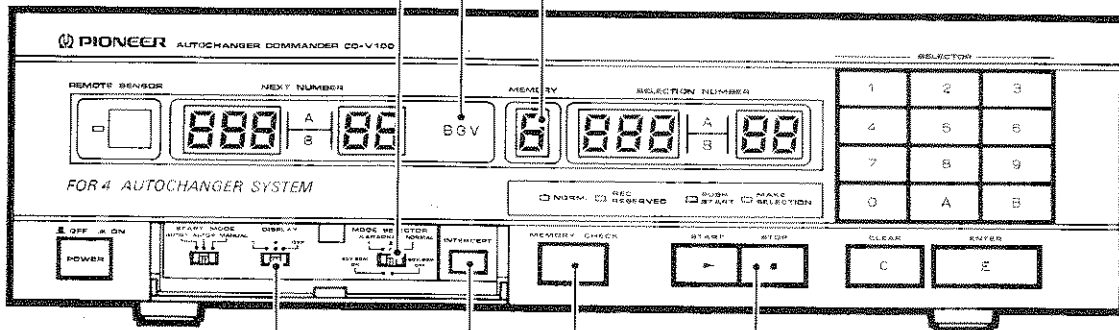


### BGV indicator

Lights up during BGV disc playback.

### MEMORY indicator

Displays the sequential number of memorized songs. Up to eight songs can normally be memorized. However, up to nine songs are memorized if the interrupt selection is executed. The memory sequence is shown in memory check mode.



### DISPLAY switch

- **DISPLAY 1** — The system displays information input by operator and the karaoke bird symbol alternately appearing on the monitor during intervals — after playback of a song is completed and until the next song begins.
- **DISPLAY 2** — The system display information input by operator on the monitor after playing a song and until the playback of the next song begins.
- **OFF** — No display (the screen is black).

### STOP button

Press to stop a song during playback. The system enters the reselection mode if the STOP button is pressed within 30 seconds of playback start.  
\* If a COIN/BILL BOX is used, a song is assumed to have ended when 30 seconds or more have elapsed since the screen was displayed.

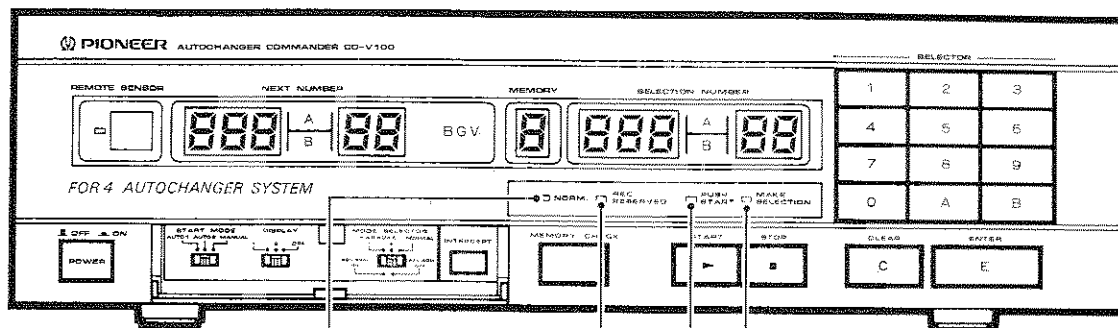
### MEMORY CHECK button

Each time this button is pressed, the memorized song number is shown by the SELECTION NUMBER indicator and the memory sequence is displayed by the MEMORY indicator.

### INTERCEPT button

To intercept the memorized song sequence and play another song before the next memorized song.





**NORM (NORMAL) indicator**  
 Lights up when the MODE SELECTOR switch is set to NORMAL.

**REC RESERVED indicator**  
 Lights up when an optional recording equipment is connected to the system and recording has been reserved for one of the tunes assigned for playback.

**MAKE SELECTION indicator**  
 Lights up when song selection can be operated.

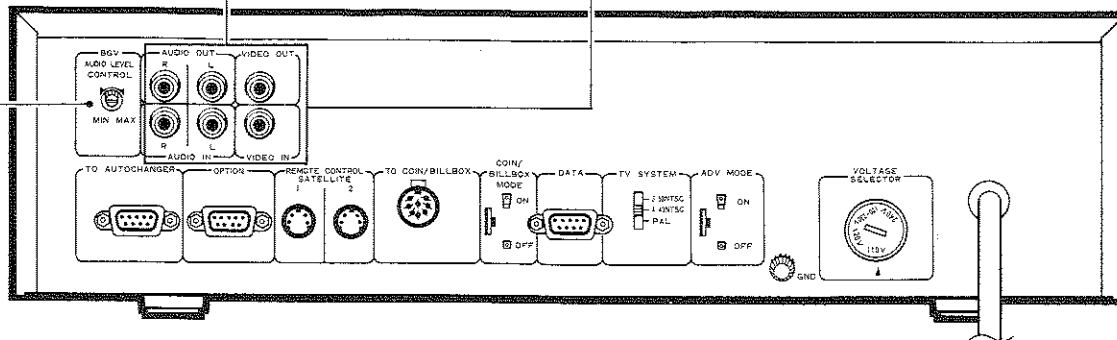
**PUSH START indicator**  
 The indicator blinks to inform that the system is in standby mode. If there is a reserved song, the indicator displays blinking "MAKE SELECTION" and "PUSH START" messages to inform that a song can be reselected for the reservation, or the next reservation can be made without reselecting a song.

**REAR PANEL**

**BGV AUDIO LEVEL CONTROL**  
 Adjusts the audio level of BGV discs during playback. To decrease the audio level, turn the control counter-clockwise. To increase the audio level, turn the control clockwise. The BGV AUDIO LEVEL adjustment will not affect the audio level of karaoke play. No sound will be output when the MODE SELECTOR switch located on the front panel is set to KARAOKE 2.

**AUDIO/VIDEO OUT jacks (RCA jack)**  
 Connect to the AUDIO IN jacks and VIDEO IN jacks of the mixing amplifier.

**AUDIO/VIDEO IN jacks (RCA jack)**  
 Connect to the AUDIO OUT jacks and VIDEO OUT jack of the AutoChanger.



## CO-V100 PANEL FACILITIES

### TO AUTOCHANGER terminal (9-pin D-sub connector)

Connect to the INTERFACE CONNECTOR IN terminal of the AutoChanger by using the cord supplied with the AutoChanger.

### OPTION terminal (9-pin D-sub connector)

An optional terminal for connecting optional equipment at a later time.

### REMOTE CONTROL SATELLITE jacks (4-pin mini DIN connector)

External remote control sensor IN jacks. Using the optional remote control satellite allows you to select songs by reading the tune numbers via the supplied remote control unit and transmitting the signals to the remote control satellite.

### COIN/BILL BOX MODE switch



Switch pulled out: ON position

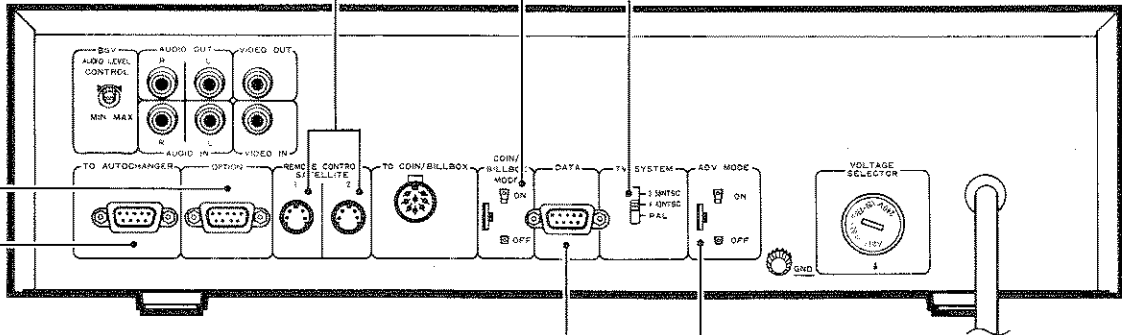
Switch pushed in: OFF position



The system operates without the coin/bill box.

### TV SYSTEM switch

Use this switch to change mode according to the type of TV to be used.



### DATA terminal

Connect to a personal computer. The system outputs information on playing back an "Advertise" disc to the personal computer.

### ADV (Advertising) MODE switch



Switch pulled out: ON position

The system plays back "Advertise" discs.



Switch pushed in: OFF position

The system does not play back "Advertise" discs.

**TV SYSTEM switch**

Use this switch to change mode according to the type of TV and disc to be used.  
The mode changes according to the following table:

| DISC | TV<br>MODE | PAL         |          | 3.58NTSC    |        | PAL/4.43NTSC |      |
|------|------------|-------------|----------|-------------|--------|--------------|------|
|      |            | COLOUR      | SIZE     | COLOUR      | SIZE   | COLOUR       | SIZE |
| PAL  | —          | COLOUR      | FULL     | BLACK/WHITE | STRTCH | COLOUR       | FULL |
| NTSC | 3.58NTSC   | BLACK/WHITE | *1SHRINK | COLOUR      | FULL   | BLACK/WHITE  | FULL |
|      | 4.43NTSC   | BLACK/WHITE | *1SHRINK | BLACK/WHITE | FULL   | COLOUR       | FULL |
|      | PAL        | COLOUR      | *1SHRINK | BLACK/WHITE | FULL   | *2COLOUR     | FULL |

In this table, "SHRINK" in the size column means that the screen shrinks in vertical direction; "STRTCH" means that the screen stretches approximately 120% in vertical direction; and "FULL" means normal size.

**NOTE:****\*1 SHRINK**

Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL) /60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage.

**\*2 COLOUR**

As the color is displayed line-by-line, horizontal lines appear on the screen.

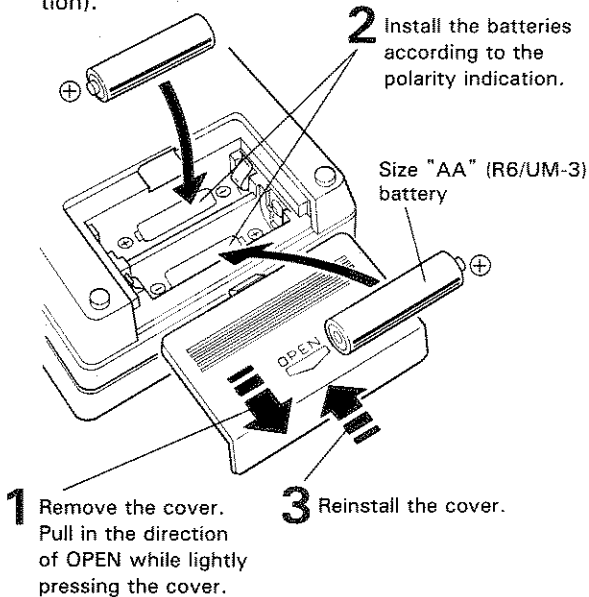
The TV screen may roll up or down depending on the TV unit.

When this occurs, adjust the vertical synchronization.

# REMOTE CONTROL UNIT OPERATION

## BATTERY INSTALLATION

1. Remove the battery compartment cover on the rear side of the remote control unit (pull the cover in the direction of OPEN while pressing).
2. Install two size "AA" batteries (R6/UM-3) in the battery compartment according to the polarity indication.
3. Reinstall the cover. Press any button on the remote control unit to check that the operation indicator blinks (the indicator blinking verifies proper battery installation).



### Incorrect battery use may cause leakage.

- A. Always insert batteries matching the indicated positive (+) and negative (-) polarities.
- B. Never mix new and used batteries.
- C. Do not mix different type of batteries. Batteries of the same size may have different voltages.

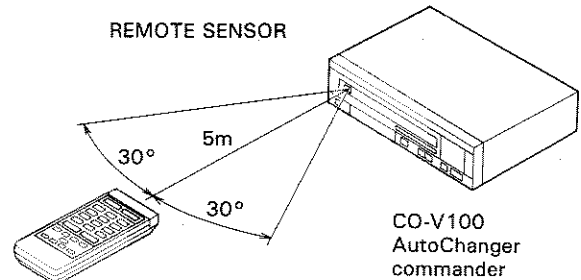
## OPERATING METHOD AND RANGE

Operate the remote control unit while pointing the transmitting section of the unit toward the commander REMOTE SENSOR.

Distance: Within about 5 m (16 feet) from the REMOTE SENSOR

Angle: Within about 30° from the center

Any obstacles between the commander and REMOTE SENSOR will prevent remote control operation.



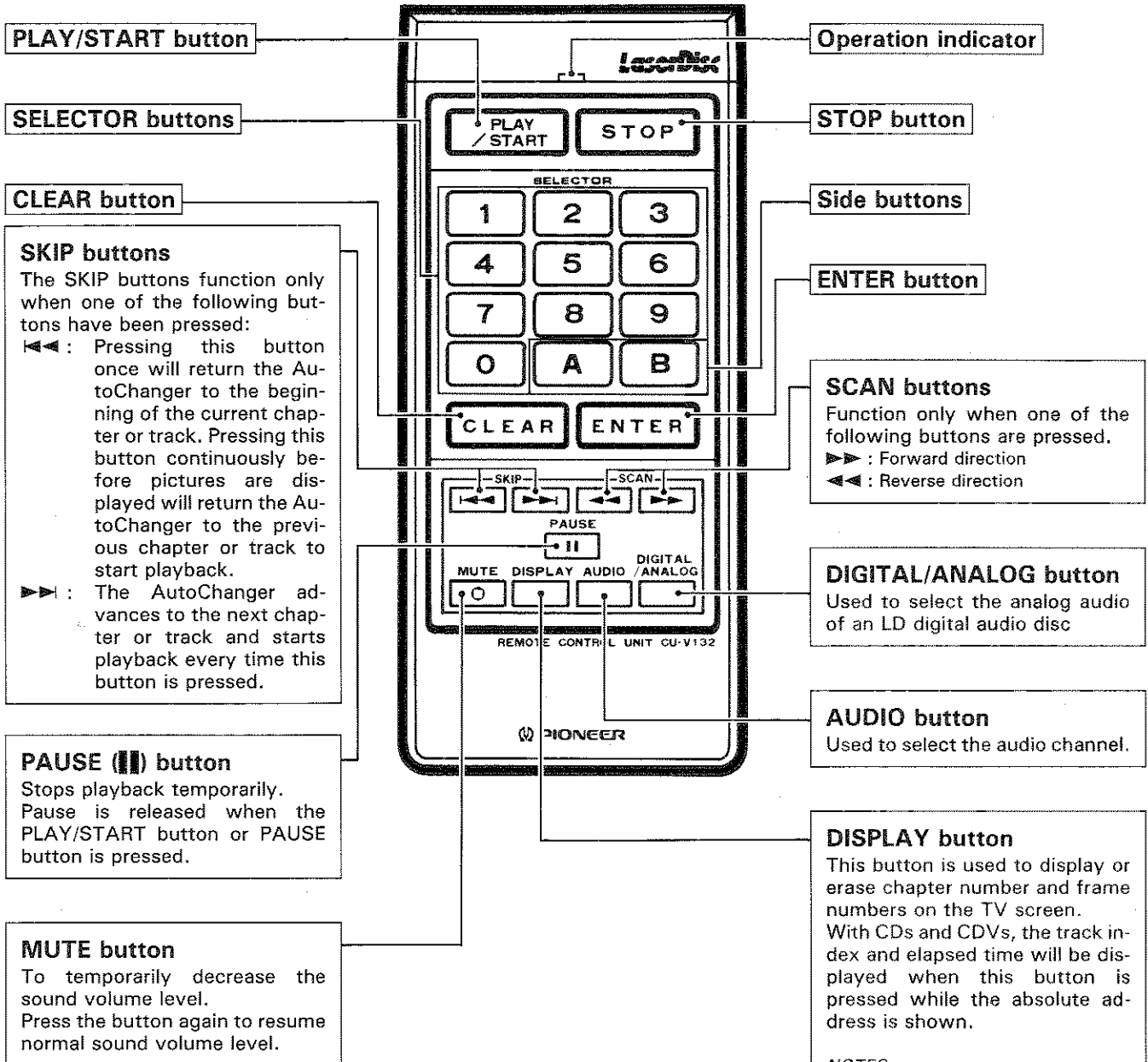
The angle for remote control operation becomes wider as the remote control unit is closer to the REMOTE SENSOR.

### NOTE:

- When the remote control unit is not to be used for a long period of time (more than one month), remove the batteries to prevent them from leaking inside the battery compartment. If leakage occurs, wipe the liquid from inside the compartment and replace the batteries with new ones.
- Do not put heavy objects such as books on top of the remote control unit. If buttons are continuously depressed, the batteries will quickly run down.
- When the indicator does not blink when a button is pressed, replace the batteries with new ones.

**REMOTE CONTROL UNIT**

Remote control buttons with the same names or marks as buttons on the front panel of the Commander Control the same operations as the corresponding front panel buttons.



The buttons following are available when the CO-V100 is in the NORMAL MODE: SKIP, SCAN, PAUSE, MUTE and DISPLAY.

**NORMAL MODE:**

When you want the usual LaserDisc Player like operation, set as follows.

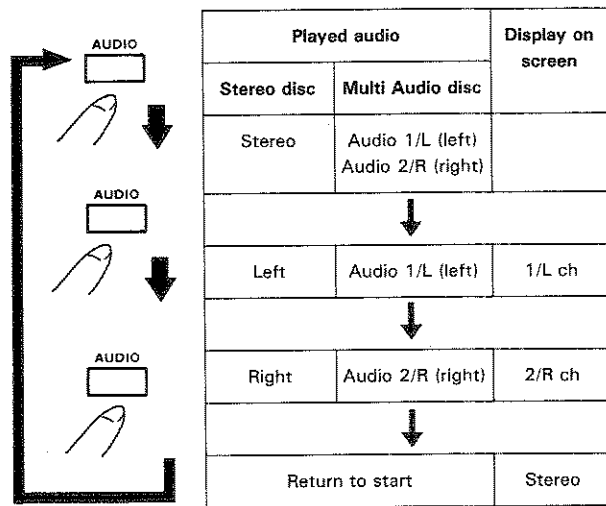
- ① Depress the COIN/BILLBOX MODE switch on the rear panel to the OFF position.
- ② Select the NORMAL of the MODE SELECTOR behind the front door.

## REMOTE CONTROL UNIT OPERATION

### SWITCHING OF THE AUDIO MODE

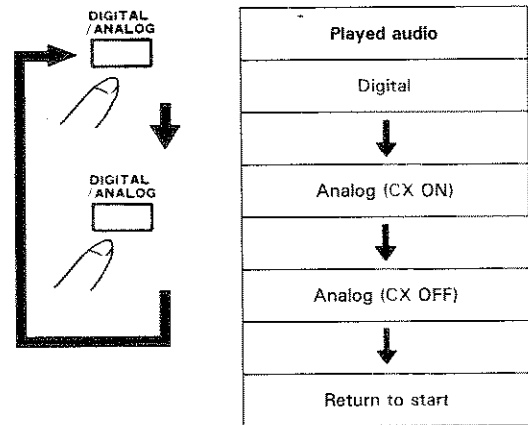
To listen to only one channel of a stereo disc, or to select the audio on a Multi Audio disc (NTSC disc only):

During playback



To listen to the analog audio of an LD digital audio disc:

During playback



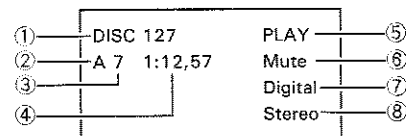
With a Multi Audio disc (an NTSC system LD bearing the "MULTI AUDIO" or "digital" and "MULTI AUDIO" mark), you can listen to the various audio tracks recorded on the disc by using DIGITAL/ANALOG to select between the analog and digital audio tracks, and by using AUDIO to select between the left (1/L) and right (2/R) channels.

Examples of the various types of audio recorded on Multi Audio discs

| Disc \ Audio                           | Analog audio                                   | Digital audio      |
|--|--|--------------------|
| Movies, animations, etc.               | Audio of the main program                      | Sound-track        |
| Dual music                             | Music 1  | Music 2            |
| Various types of digital audio karaoke | 1/L Karaoke (monaural)<br>2/R Assisting vocals | Stereo karaoke     |
| Stereo bilingual                       | Native language                                | Foreign language 1 |

| Audio Disc  | Analog audio                                  | Digital audio                                    |
|-------------|---|--|
| Trilingual  | Native language                               | 1/L Foreign language 1<br>2/R Foreign language 2 |
| Quadlingual | 1/L Native language<br>2/R Foreign language 1 | 1/L Foreign language 2<br>2/R Foreign language 3 |

When operation the remote control, the display on the TV monitor is as follows:



- ① Disc No. during playback
- ② Disc side
- ③ Chapter/Track No.
- ④ Disc playback (playback time) or frame number
- ⑤ Indication of playback mode  
PLAY: Playback mode  
PAUSE: Pause mode  
SEARCH: Search mode  
STILL: Still mode
- ⑥ Mute function
- ⑦ Activation of AUDIO button
- ⑧ Activation of DIGITAL/ANALOG button

# OPERATION OF THE LC-V100

## Front Panel

### STANDBY/ON switch/indicator

Press this switch to turn the power on or off. Also, you can enter the AutoChanger address setting mode or disc replacement mode by pressing the STANDBY/ON switch while holding down a digit button or the OPEN/CLOSE button while the power supply is switched off.

### Indicator

Displays shows the disc number while a disc is being replaced. If an error occurs, the indicator displays the error code.

### ERR (error) indicator

This indicator blinks when an error occurs.

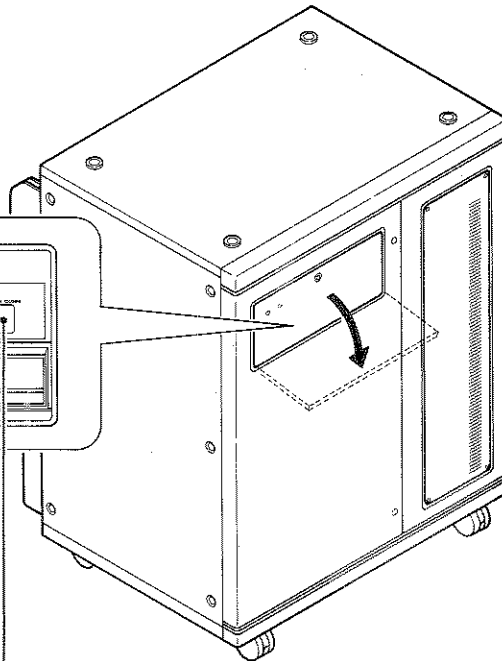
### Digit buttons

Specify the disc number to be replaced by using the digit buttons in the disc replacement mode.

### OPEN/CLOSE button

Opens/closes the changer tray or the standard tray when replacing a disc.

The buttons/switches inside the sealing panel are used when loading or exchanging discs in the tray, or when entering a new address for an AutoChanger.

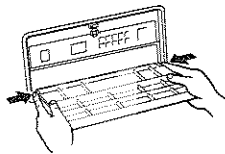


### [How to open the door]

- ① To unlock the door, insert the supplied key and turn it 90 degrees counterclockwise.
- ② Press the door to open it.
- ③ To lock the door, shut it and then insert the key and turn it 90 degrees clockwise.

LOCK . UNLOCK

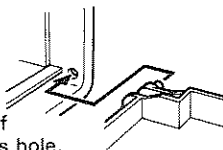
### To remove the door.



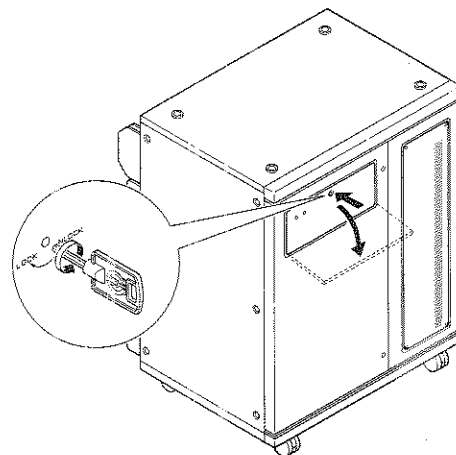
Press in with your fingertips at the left and right hook sections and then slowly pull the door towards you.

### To install the door.

Press the hook sections with your fingertips as explained in the removal step. Then slowly push the door into position.



Insert the boss of the hook into this hole.



## OPERATION OF THE LC-V100

### Rear Panel

#### INTERFACE CONNECTOR IN terminal (9-pin D-sub connector)

Connect to the AutoChanger control of the CO-V100 (use the supplied Interface connector cable).

#### INTERFACE CONNECTOR OUT terminal (9-pin D-sub connector)

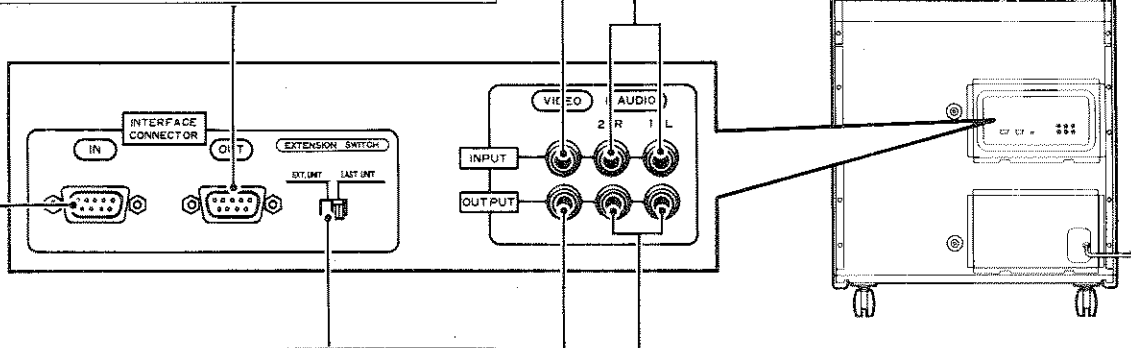
Connect to the INTERFACE CONNECTOR IN terminal of an additional AutoChanger. A maximum of four AutoChangers can be connected.

#### VIDEO INPUT terminal (RCA jack)

Connect to the VIDEO OUTPUT terminal of an additional AutoChanger.

#### AUDIO INPUT terminal (RCA jack)

Connect to the AUDIO OUTPUT terminal of an additional AutoChanger.



#### EXTENSION SWITCH

Use this switch when installing additional AutoChangers. If this unit is the last unit, shift the EXTENSION SWITCH to "LAST UNIT". If another unit is further connected for the extension, shift the EXTENSION SWITCH to "EXT. UNIT".

#### AUDIO OUTPUT terminal (RCA jack)

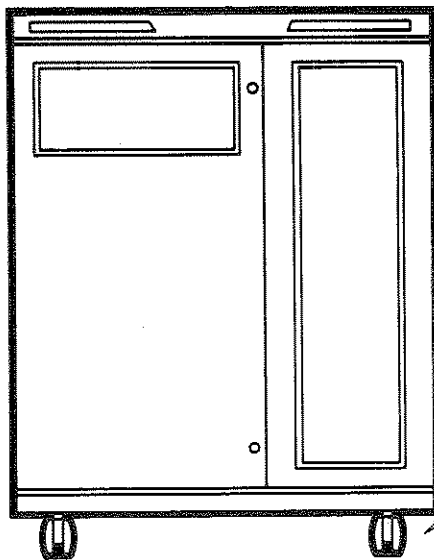
Connect to the AutoChanger AUDIO IN of the CO-V100 (use the supplied audio cable).

#### VIDEO OUTPUT terminal (RCA jack)

Connect to the AutoChanger VIDEO IN of the CO-V100 (use the supplied video cable).

### CASTER LOCK

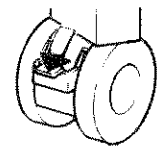
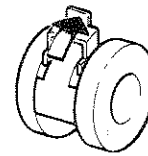
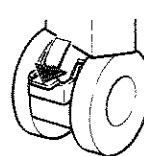
The front casters are provided with a locking mechanism. Lock as shown in the diagram.



Lock

① The lock will be released when the claw is pushed up.

② The lock will be secured when the claw is pushed down.

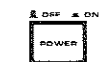


If it is difficult to lock, turn the caster slightly.



# INITIAL SCREEN

The system displays the state of the AutoChanger(s) connected to your system on the monitor when the power is turned ON in the karaoke or normal mode. Specify data for AutoChanger connection and enabling/disabling song selection by the coin/bill box. The initial screen will be cleared approximately 5 seconds after the system recognizes the operating state of the AutoChanger to be correct.



| START UP MODE |           |
|---------------|-----------|
| LD CHANGER    | 1 2       |
| CD-R VENDOR   | 1         |
| COIN/BILL BOX | ENABLE    |
| ADV SWITCH    | ON        |
|               |           |
| START MODE    | AUTO1     |
| DISPLAY MODE  | OFF       |
| MODE SELECTOR | KARAOKE 2 |

## (1) LD CHANGER

Displays the AutoChanger number(s). After several minutes, the system knows whether the AutoChanger(s) is in proper condition for operation. If it is in improper condition, the system will continue displaying the initial screen. In such a case, check the setting of the AutoChanger. If an AutoChanger is connected incorrectly, correct the setting.

## (2) CD-R VENDOR

Displays whether a CD-R VENDOR is connected to the optional terminal on the rear panel of the CO-V100.

## (3) COIN/BILL BOX

Displays the status of the coin/bill box and the state of the COIN/BILL BOX MODE switch located on the rear panel of the CO-V100.

When the COIN/BILL BOX MODE switch is ON and the RATE DIAL of the coin/bill box is set to FREE, the system displays "ENABLE" (song selection enabled). Otherwise "DISABLE" (song selection disabled) is displayed.

When the COIN/BILL MODE switch is OFF, the system displays "NONE." If connection is incorrect, the system displays "ERROR."

## (4) ADV MODE switch

Displays whether the ADV MODE switch located on the rear panel of the CO-V100 is ON or OFF.

## (5) START MODE switch

Displays the set position of the START MODE switch located on the front panel of the CO-V100.

## (6) DISPLAY MODE

Displays the set position of the DISPLAY MODE switch located on the front panel of the CO-V100.

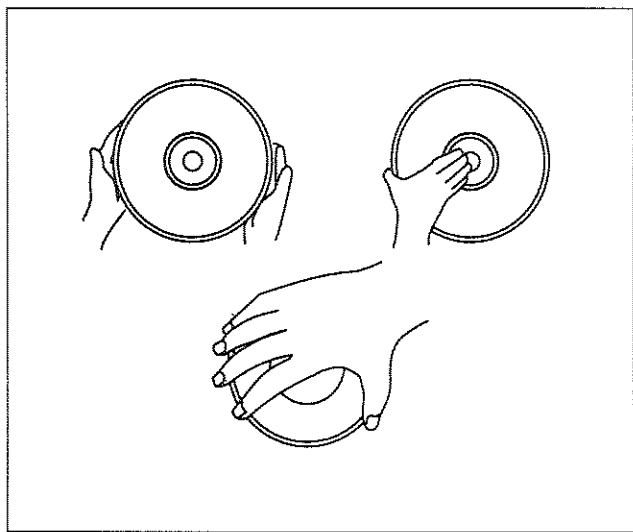
## (7) MODE SELECTOR

Displays the set position of the MODE SELECTOR switch located on the front panel of the CO-V100.

# CARE OF DISCS

## Holding Discs

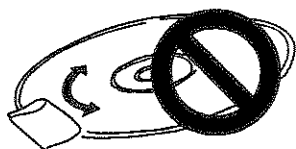
When loading or removing discs, try not to touch the disc playing surface.



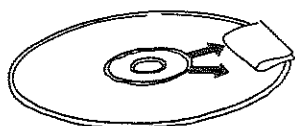
## Cleaning

Fingerprints or other dirt on the disc may affect sound and picture quality.

To clean your discs, use a soft clean cloth to wipe them. If necessary, moisten a soft cloth with diluted neutral detergent to remove the heavy dirt of fingerprints.



Do not wipe in a circular direction

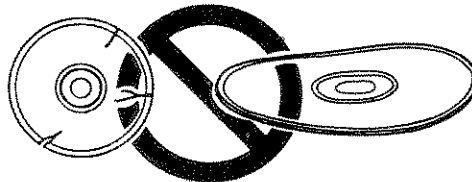


Gently wipe from the inside toward the outer edge

Discs may not be cleaned with record cleaning sprays, or static prevention sprays, etc. Also avoid using volatile liquids such as benzine, thinners, etc.

## NEVER PLAY CRACKED OR WARPED DISCS

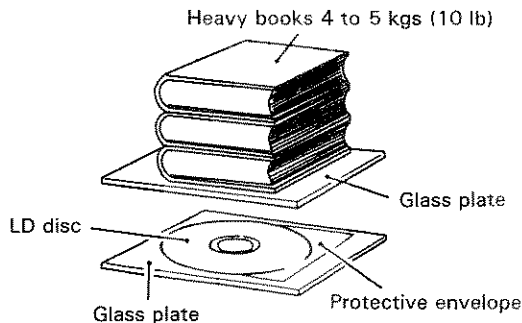
■ The disc revolves on the AutoChanger at a high speed when it is played. Never play a cracked, scratched or warped disc. This may damage the AutoChanger or cause it to malfunction.



- Store discs carefully. If you store discs at an angle, or stacked on top of each other, discs may become warped even when in their jackets.
- Do not leave discs in locations such as the seat of a car which may become excessively hot.

## If an LD disc is warped ...

If an LD disc is warped, put the disc into its protective envelope, and then place it between two flat plates of glass. Then place heavy books on top of the plates so that approximately 4 to 5 kilograms (10 lbs) is applied. Leave the disc like this for a day or so. This may correct the warp.



## CAUTION WHEN USING THE DISC

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# LOADING AND EXCHANGING DISCS

## LOADING DISCS

Either the changer tray (50 discs) or standard tray (1 disc) can be used for the AutoChanger.

- When selecting the title, refer to page 22 for the disc number.

|            | Changer tray (50 discs) | Standard tray (1 disc)                             |
|------------|-------------------------|--|
| Tray No.   | 1 ~ 50                  | 901  |
| Tray color | Gray                    | Black  |
| Disc type  | LD (30 cm)              | LD (20 cm, 30 cm), CD (12 cm, 8 cm)<br>CDV (12 cm) |

When you set a 20 cm LD, 12 cm CD, or 12 cm CDV on the changer tray, attach the four optional disc tray adaptors on the tray.

### Load the disc in the tray correctly:

If the disc is loaded incorrectly in the tray, the tray will automatically open after being closed. Loading the disc incorrectly can scratch the disc and lead to machine failure.

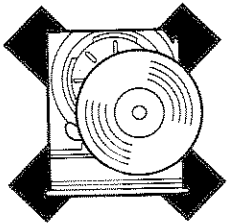
Reload the disc properly when a tray automatically opens immediately after closing it.

### Loading a disc

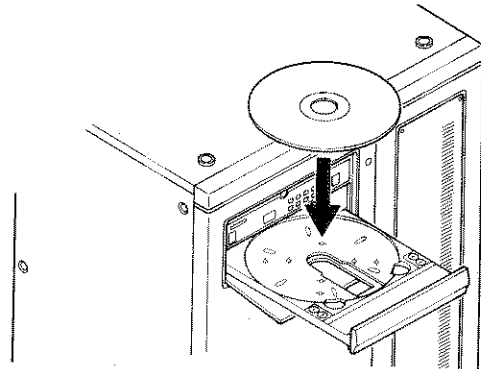
#### Using the changer tray

Place a 30 cm LD on the tray with side A facing up.

#### CAUTION :



*Be Sure to place the disc in the groove on the disc table.*



## LOADING AND EXCHANGING DISCS

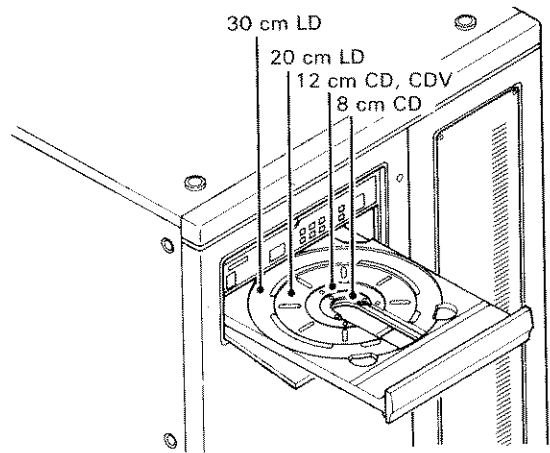
### Standard tray

CD/CDV : with the labeled side up.

LD : with the side A facing up.

### WARNING:

- Note that 8 cm CDs can only be loaded and played back on the standard tray. Do not load a 8 cm CD on the changer tray using the 8 cm CD adaptors. This may damage the mechanism of the AutoChanger.
- If the tray is pressed down, the system automatically withdraws it and your hand may be pinched.



### To avoid malfunctions, be especially careful about the following points.

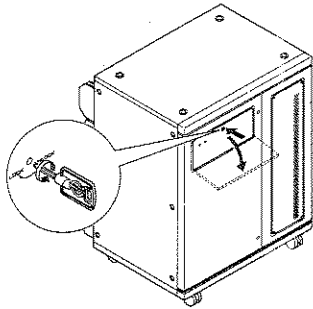
- Do not place any object other than a disc on the disc table.
- Do not move the AutoChanger while a disc is playing. This will cause the disc to be scratched.
- Be careful not to catch your finger in the disc table section while the disc table is being retracted into the unit. Also, be careful that do not put your hands into the inside of the unit while the disc table is open. This may cause injury.

### Precautions concerning disc loading

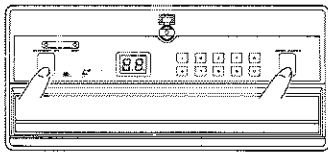
- Do not place more than one disc on the disc table. If two discs are placed one on top of the other on the disc table, discs may be scratched and/or malfunction may occur.

**TO REPLACE DISCS**

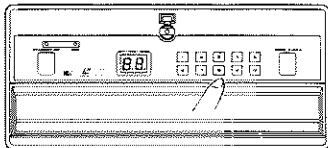
1. Switch the power of the commander OFF.
2. Unlock the sealing panel of the AutoChanger by using the supplied key and push to open the door.



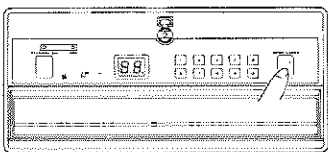
3. While pressing the OPEN/CLOSE button, press the STANDBY/ON switch.



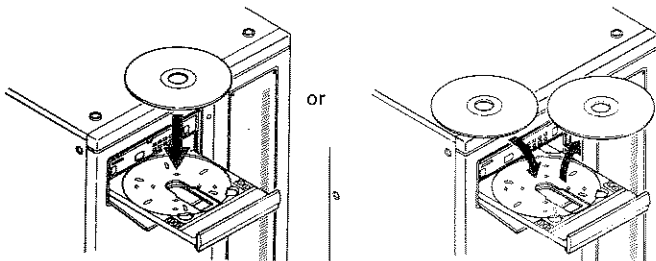
- The display shows " 0 : ".
4. Enter the number of the disc to be replaced by using the digit buttons.
- The disc number blinks on the display.



5. Press the OPEN/CLOSE button.
- The tray chosen in step 4 comes out in a little while.



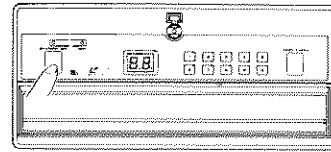
6. Replace the disc on the tray.
- LD: Load the disc with side A facing up.
  - 20 cm LD, 12 cm CD or 12 cm CDV: Attach the disc tray adaptors before setting the disc. Loading the disc with labeled side up.



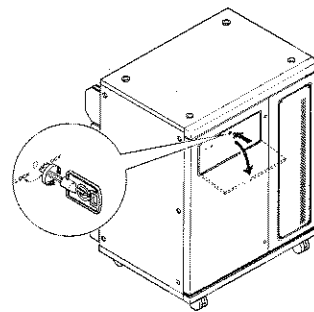
7. For replacing other discs, repeat steps 4 to 6.
- If step 4 is skipped, the next disc number is automatically chosen.

8. When replacement of the desired discs is completed, press the STANDBY/ON switch.

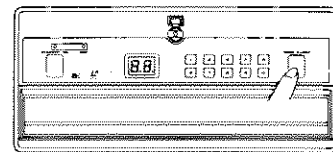
- The power will be switched OFF and the disc storage procedure is terminated.

**LOADING DISCS ONTO THE STANDARD TRAY**

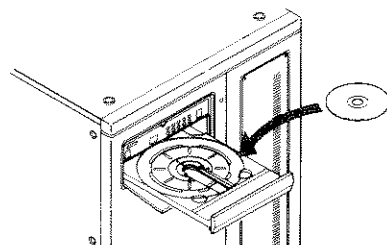
1. Switch the power of the commander ON.
2. Unlock the sealing panel of the AutoChanger by using the supplied key and push to open the door.



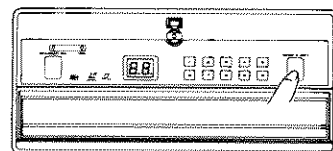
3. Press the OPEN/CLOSE button.
- The standard tray will be ejected.



4. Load a disc on the tray.
- LD: Load the disc with side A facing up.
  - 12 cm CD, 8 cm CD or 12 cm CDV: Load the disc with the labeled side facing up.



5. Press the OPEN/CLOSE button.



6. Close the sealing panel and lock it using the supplied key.

## LOADING AND EXCHANGING DISCS

### SET THE ADDRESS

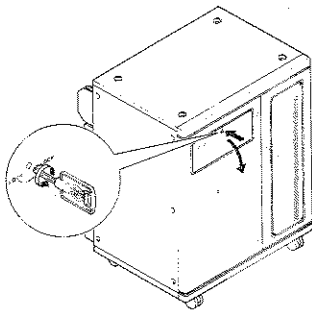
The address of an AutoChanger must be set before inserting a disc. Set the address to "1" if you use a single AutoChanger. Set to "2", "3" and "4" respectively for the 2nd, 3rd and 4th AutoChanger.

If more AutoChangers have been added to the first AutoChanger, the ADV or BGV disc currently being used must be moved. Move the ADV disc to the 47th and 48th disc position in the final AutoChanger. Move the BGV disc to the 49th and 50th disc position in the final AutoChanger.

#### [Example]

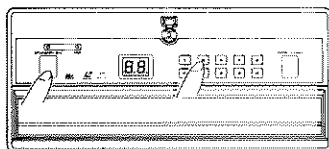
When setting "2" for the second AutoChanger.

1. Switch the power of the commander OFF.
2. Unlock the sealing panel of the AutoChanger by using the supplied key and push to open the door.



3. While pressing the numeric 2 button, press the STANDBY/ON switch.

- The set address number is displayed for several seconds "R2" for your confirmation.



### SET THE EXTENSION SWITCH

Set this switch to LAST UNIT for the AutoChanger installed in the final position. Set this switch to EXT.UNIT for all other AutoChangers.

|                | No.1      | No.2      | No.3      | No.4      |
|----------------|-----------|-----------|-----------|-----------|
| 1 AutoChanger  | LAST UNIT | —         | —         | —         |
| 2 AutoChangers | EXT. UNIT | LAST UNIT | —         | —         |
| 3 AutoChangers | EXT. UNIT | EXT. UNIT | LAST UNIT | —         |
| 4 AutoChangers | EXT. UNIT | EXT. UNIT | EXT. UNIT | LAST UNIT |

AutoChanger No. 1 is the machine connected to the CO-V100 unit. The following AutoChangers are numbered No. 2, No. 3, No. 4, etc., respectively.

### Disc number

The disc number will change when more AutoChangers are added.

|                                    |                   |
|------------------------------------|-------------------|
| No. 1: AutoChanger trays 1 – 50    | Standard tray 901 |
| No. 2: AutoChanger trays 51 – 100  | Standard tray 902 |
| No. 3: AutoChanger trays 101 – 150 | Standard tray 903 |
| No. 4: AutoChanger trays 151 – 200 | Standard tray 904 |

#### Important:

**Care should be taken when replacing trays.**

#### NOTE:

The AutoChanger will not operate properly when the same address has been assigned to two or more machines. Make sure to give each AutoChanger a different address.

### CONVENIENT FEATURES

During loading and exchanging discs, screen display occurs. Disc loading conditions can be seen at a glance. Highlighted (white) numbers indicate the location of the loaded discs.

| Disc map address 1 |    |    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|----|----|
| 01                 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
| 11                 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21                 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31                 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41                 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |

During the disc loading and exchange mode, activate the commander and monitor TV.

1. Set for disc exchanging mode.
2. Switch ON Commander (also switch ON monitor TV).

After the preceding steps:

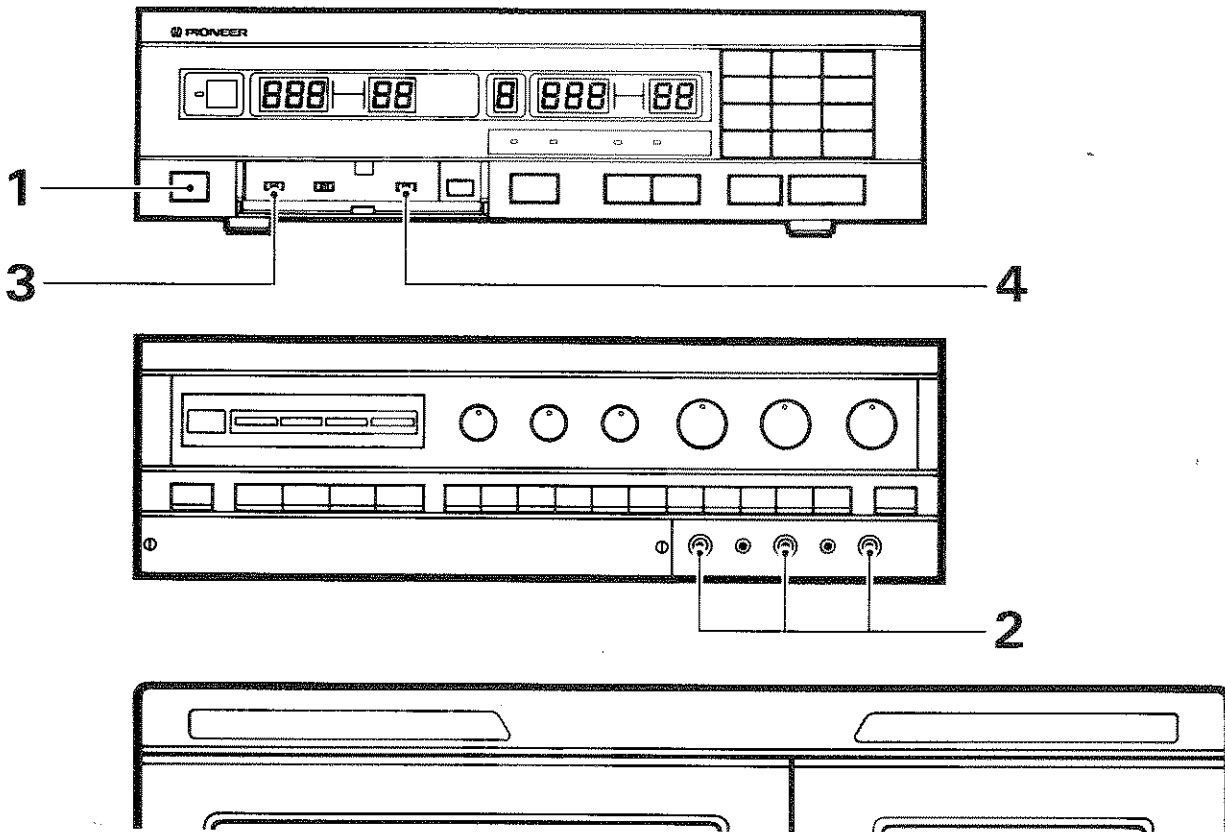
1. Switch OFF Commander.
2. Deactivate disc exchanging mode by pressing STANDBY/ON.

#### NOTE:

- Only one AutoChanger screen can be observed at a time.
- Before relocation of the unit, remove all discs. Relocating the unit with disc inserted, can damage the discs and lead to machine failure.

# KARAOKE OPERATION

## PREPARATION



**1.** Turn on the power switches of the devices to be used.

**2.** Connect the microphones.

Microphone terminals are provided on the stereo mixing amplifier.

**3.** Set the START MODE selector.

- MANUAL — System stops each time a song ends, even if songs have been memorized. Press the START button to play the next song.
- AUTO — Automatically plays the memorized songs.
- AUTO 1:  
The next song starts about 5 seconds after the previous playback ends.
  - AUTO 2:  
The next song starts about 20 seconds after the previous playback ends.

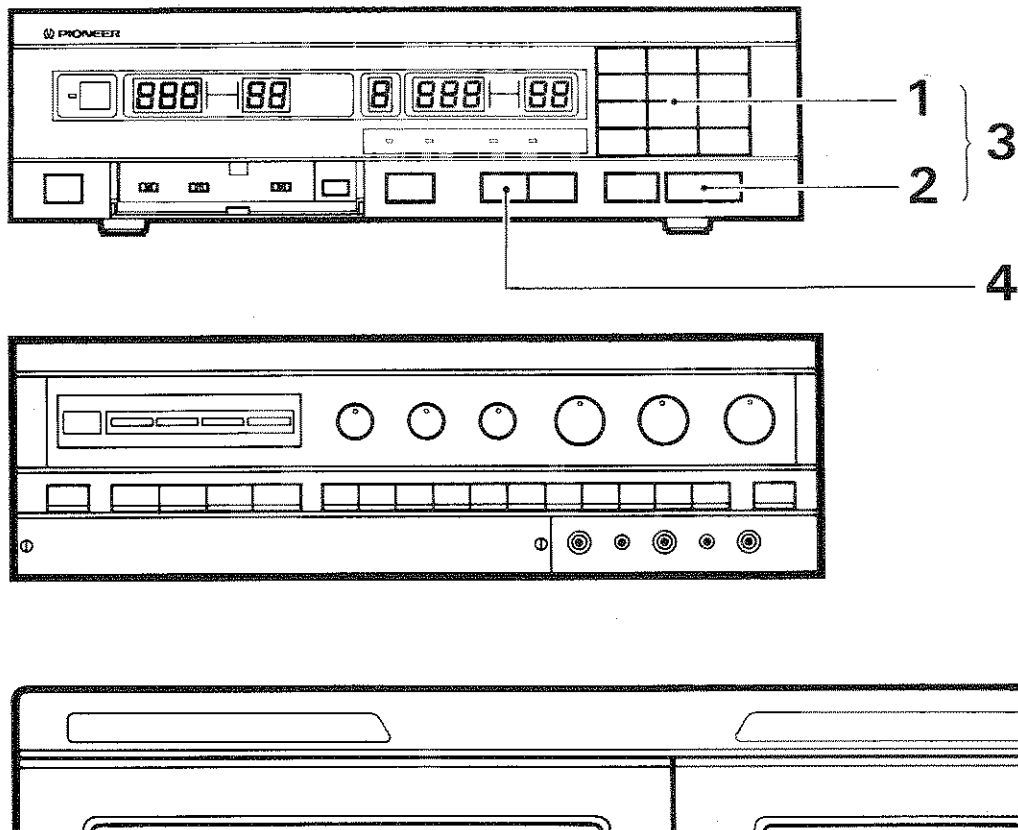
**4.** Set the MODE SELECTOR switch.

- KARAOKE 1 — Plays a BGV disc while the karaoke mode is not operating. Plays both images and sound.
- KARAOKE 2 — Not play BGV disc.
- NORMAL — The KARAOKE operation is not active.

**NOTE:**

The NORMAL mode functions only when the system is used in the free-of-charge mode. The system plays back karaoke discs as well as discs other than karaoke.

**AUTOCHANGER KARAOKE OPERATION**



- 1.** Locate the desired song numbers from the karaoke chart and select the numbers by pressing the **SELECTOR** buttons (0 to 9, A, B).

Specified numbers are shown by the **SELECTION NUMBER** indicator.

If a wrong **SELECTOR** button is pressed, press the **CLEAR (C)** button, then press the correct button.

- 2.** Press the **ENTER (E)** button.

The selected number moves to the **NEXT NUMBER** indicator and the **MAKE SELECTION** indicator lights up.

- 3.** Repeat steps 1 and 2 to memorize all the song numbers.

Up to eight songs can be memorized. When eight songs have been memorized, the **MAKE SELECTION** indicator turns off.

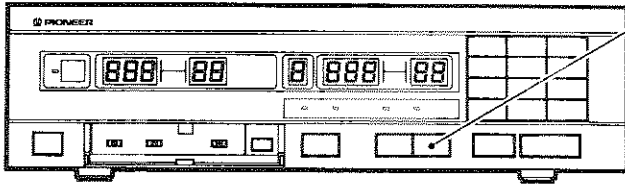
If **AUTO MODE** is specified, the specified songs automatically start playing in sequence.

- 4.** (**MANUAL MODE** only)  
Press the **START** button.

In **MANUAL MODE**, when the **PUSH START** indicator blinks, press the **START** button. When a song ends, the karaoke operation stops automatically.



**IF A WRONG NUMBER IS SELECTED**



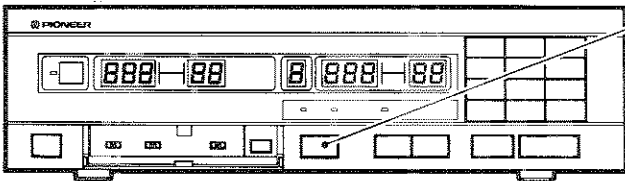
**Press the STOP button.**

If it is pressed within 30 seconds after playback starts, the NEXT NUMBER, PUSH START, and MAKE SELECTION indicators blink, so that the correct song can be selected.

**(When the next song is memorized)**

- To play the next song — Press the START button. The next song starts playing. In MANUAL mode, the PUSH START indicator blinks again after completion of the playback preparation. Then, press the START button again.
- To play another song before the next memorized one — Select a song by pressing the SELECTOR buttons and ENTER (E) buttons. The selected song is played before the next memorized song.
- To cancel a song — Press the CLEAR (C) button. The next song is canceled. If other songs have been memorized, the number of the NEXT NUMBER indicator changes and the number of MEMORY is reduced by one.

**TO CHECK THE MEMORY CONTENTS**



**1. Press the MEMORY CHECK button.**

The system enters the memory display mode.

MEMORY: 0 (blinking)  
 SELECTION NUMBER: Current operating number (blinking)

**2. Subsequently, each time the MEMORY CHECK button is pressed, the contents of memory (sequence and song numbers) are displayed sequentially.**

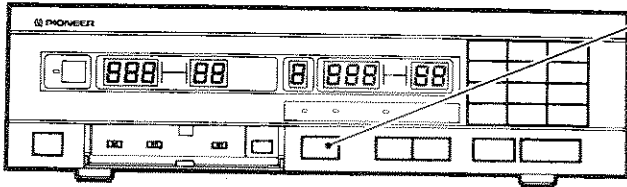
MEMORY: Sequence (blinking)  
 SELECTION NUMBER: Song number (blinking)  
 When the last memorized song is shown by the MEMORY CHECK button, the system returns to the display mode.

**MEMORY CHECK MODE release**

Pressing the CLEAR (C) button returns the system to the display mode.

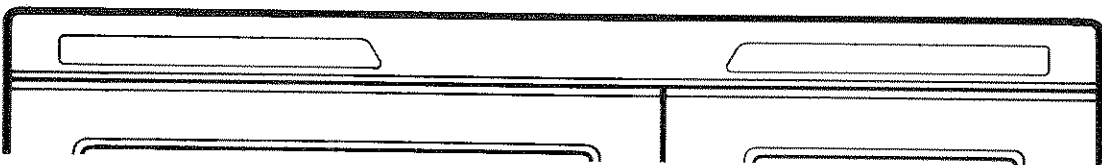
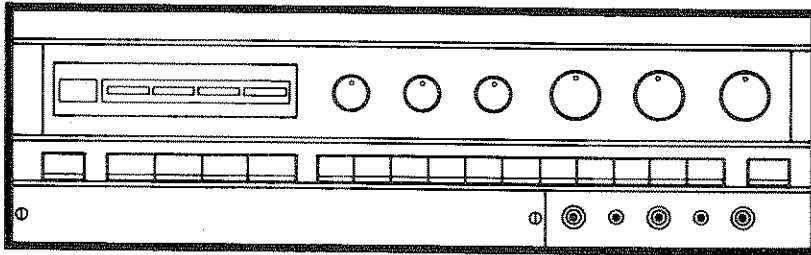
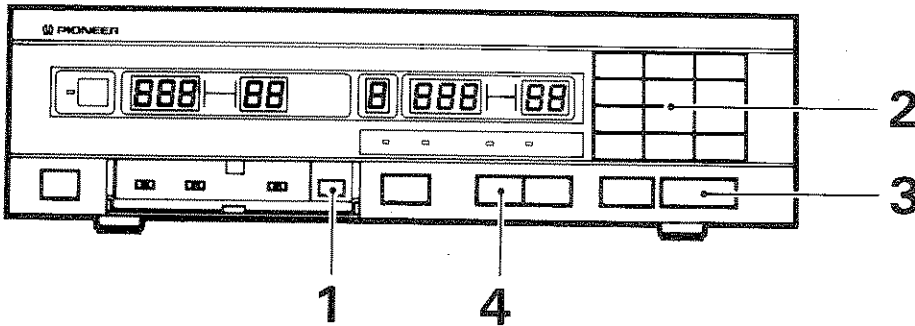
The MEMORY CHECK MODE is also released by the selection operation (by pressing the 0 to 9 buttons). The mode is also released by the intercept operation (see page 26).

## KARAOKE OPERATION (INTERCEPT SELECTION)



1. Press the MEMORY CHECK button to change the system to the MEMORY CHECK mode.
2. Press the MEMORY CHECK button several times as required to display the desired tune number to be cleared.
3. Press the CLEAR (C) button while holding down the ENTER (E) button.
  - The tune number displayed will be canceled from playback reservation.

## INTERCEPT SELECTION



1. Press the INTERCEPT button.  
NEXT NUMBER indicator blinks: 000 00.
2. Select a desired song number by pressing the SELECTOR buttons.
  - If the wrong number is pressed, press the CLEAR (C) button and select the correct song number.
  - To cancel the interception, press the INTERCEPT button again.
3. Press the ENTER (E) button.
  - If the ENTER (E) button is pressed during playback, the desired song is played before the next song.
  - If interception is executed immediately after the previous song ended, the intercepting song will be played before the next song.
4. (MANUAL MODE)  
Press the START button.

# BGV REPRODUCTION

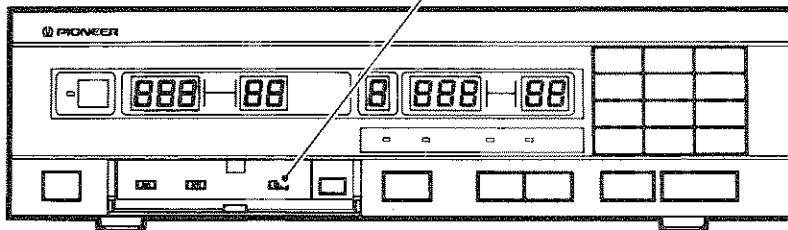
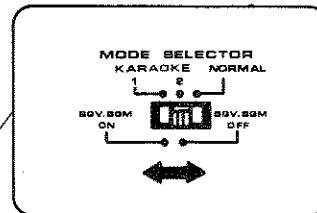
## BGV DISC REPRODUCTION OF AUTOCHANGER

When karaoke is not played and no "Advertise" disc is played back, the BGV discs loaded on the 49th and 50th trays of the last AutoChanger are played.

### [BGV Mode Setting]

Set the MODE SELECTOR switch of the CO-V100 to KARAOKE 1.

The sound level of BGV disc playing is controlled by the BGV AUDIO LEVEL CONTROL knob on the commander rear panel (in KARAOKE 1 mode).



No BGV play is performed in the following cases:

- (1) MODE SELECTOR switch is NORMAL or KARAOKE 2.
- (2) During karaoke playback
- (3) In reselection mode
- (4) Memorized songs remain to be played.

BGV disc reproduction is interrupted in the following cases:

- (1) MODE SELECTOR switch is set to NORMAL or KARAOKE 2.
- (2) A karaoke song is selected.

### NOTE:

If a BGV disc with recorded chapter numbers is played again after karaoke playback, the BGV play starts from the chapter after the previously played one.

# DISPLAY DURING INTERVAL BETWEEN SONGS

Display after a karaoke tune, until playback of the next song begins

The system displays information and/or the karaoke bird symbol before karaoke play or during intervals after completing playback of a tune, until the next song begins. The information or the karaoke bird will be cleared from the screen when playback of the next song is started.

## [Setting the display type during intervals]

DISPLAY 1 (information and the karaoke bird), DISPLAY 2 (information only) or OFF (no display) can be specified by setting the DISPLAY switch of the CO-V100.

## [Display type]

Information

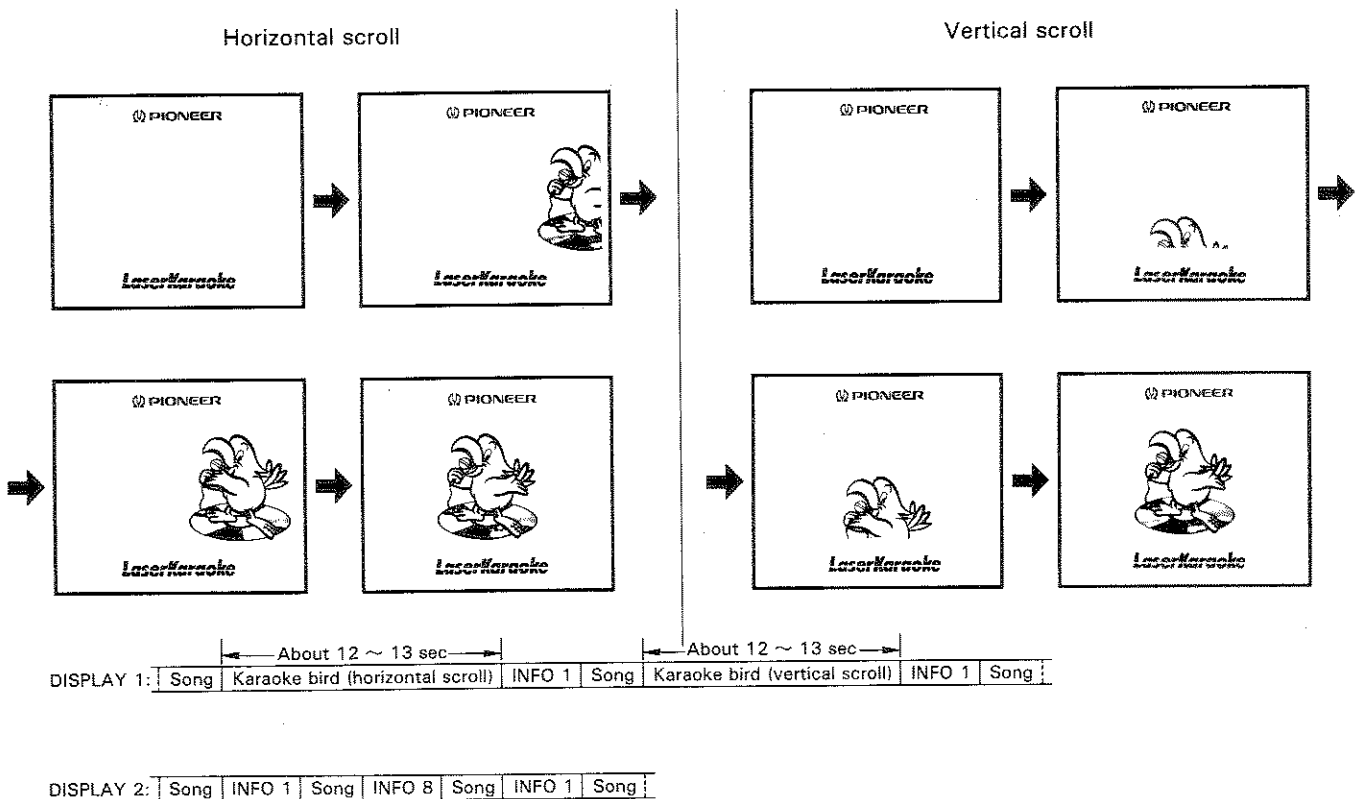
The system is set before shipment to display the information as shown below. Users can specify for each line whether to display it or not, and change its contents.

## [Karaoke bird]

The karaoke bird scrolls from right to left while clapping its wings. The speed of clapping will increase as the bird approaches the center of the screen. After the bird disappears from the left side of the screen, it appears again on the right side and repeats the movement.

The karaoke bird will be cleared from the screen when a karaoke tune starts. After the karaoke song is completed, the karaoke bird appears again on the screen but scrolls from the bottom to the top. Thus, display of the karaoke bird during intervals is alternately in the horizontal and vertical direction.

## Display example



## Revising Characters

### Important Buttons

For programming selections, these buttons are used: SELECTOR buttons 2, 4, 6, 8, A, B, and CLEAR and ENTER.

The data which is blinking is the data which will be selected.

Define the Selection Item (Button 2, Button 8): Move up and down the list of data using the 2 and 8 buttons and define the item to be selected.

Revising Characters Already Entered (Button 4, Button 6): Use these buttons to select the appropriate item revision value.

- When inputting a line of text, use the 2, 4, 6 and 8 buttons to select the text which is displayed in the chart.

When Entering Text

Changing Cursor Input Position (Button A, Button B): Use these buttons to change input positions when inputting lines of text.

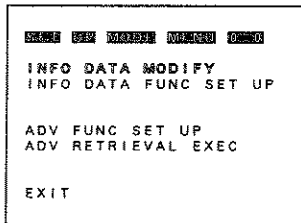
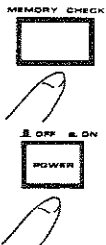
Defining Selection Items (ENTER): Use this button to define the item to be selected.

Clear Input Data (CLEAR): Use this button to clear data which has been input. When this data has been cleared, the data input before the revision will be displayed.

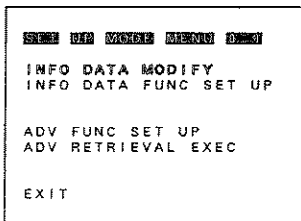
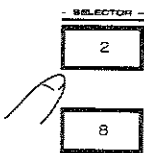
### Making Revisions to Text

1. Press the POWER switch while holding down the MEMORY CHECK button located on the commander.

- The monitor will display the SET UP MODE MENU screen.

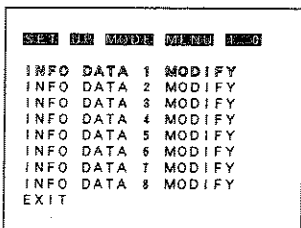
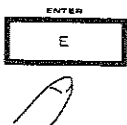


2. Press SELECTOR buttons 4 or 8, and select INFO DATA MODIFY.

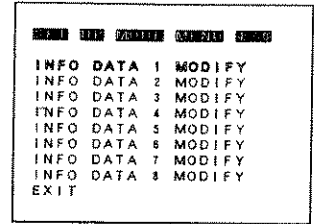
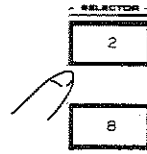


3. Press the ENTER button.

- The monitor changes to the next screen.



4. Press SELECTOR buttons 2 or 8 to select a line from 1 to 8 of the INFO DATA 1 ~ 8 MODIFY screen and select the text information to be revised.

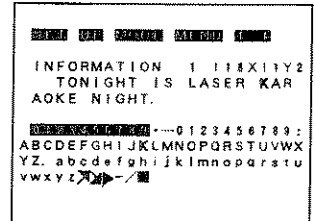
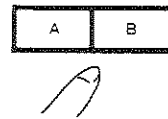


5. Press the ENTER button.

- The monitor changes to the next screen.

6. Use Button A and Button B to move the cursor to the text to be revised.

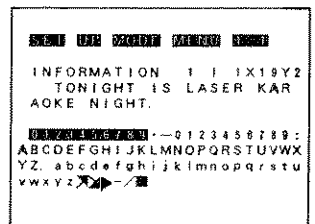
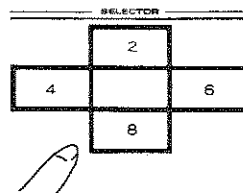
- The text which is blinking can be revised.



7. Using SELECTOR Button 2 and Button 8 (vertical movement) and Button 4 and Button 6 (horizontal movement), select text from the character chart.

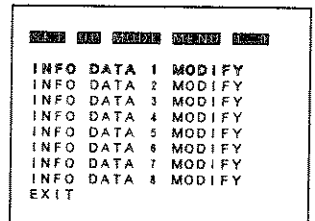
- The chart taking up the lowest four lines is a list of the characters which can be used for revision.

- By moving the cursor inside the text chart, the character which is blinking will be selected to revise the original text.



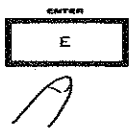
8. Press the ENTER button.

- The screen appearing in Step 4 will be displayed.



## DISPLAY DURING INTERVAL BETWEEN SONGS

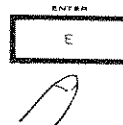
- Repeat steps 4 to 8 and enter the text.
- To exit this mode, move the cursor to EXIT and press the ENTER button.



```

SET UP MODE MENU 000
INFO DATA 1 MODIFY
INFO DATA 2 MODIFY
INFO DATA 3 MODIFY
INFO DATA 4 MODIFY
INFO DATA 5 MODIFY
INFO DATA 6 MODIFY
INFO DATA 7 MODIFY
INFO DATA 8 MODIFY
EXIT
    
```

- Press the ENTER button.
  - The monitor changes to the next screen.



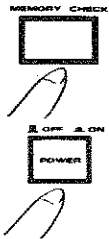
```

SET UP MODE MENU 001
INFO 1 ENABLE/DISABLE
INFO 2 ENABLE/DISABLE
INFO 3 ENABLE/DISABLE
INFO 4 ENABLE/DISABLE
INFO 5 ENABLE/DISABLE
INFO 6 ENABLE/DISABLE
INFO 7 ENABLE/DISABLE
INFO 8 ENABLE/DISABLE
EXIT
    
```

### Setting Display/No Display

- Press the POWER switch while holding down the MEMORY CHECK button located on the commander.

- The monitor will display the SET UP MODE MENU screen.



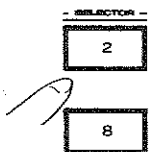
```

SET UP MODE MENU 000
INFO DATA MODIFY
INFO DATA FUNC SET UP

ADV FUNC SET UP
ADV RETRIEVAL EXEC

EXIT
    
```

- Press SELECTOR buttons 2 or 8, and select INFO DATA FUNC SET UP.



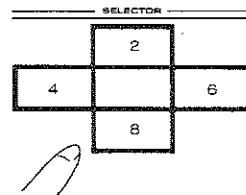
```

SET UP MODE MENU 000
INFO DATA MODIFY
INFO DATA FUNC SET UP

ADV FUNC SET UP
ADV RETRIEVAL EXEC

EXIT
    
```

- Press SELECTOR buttons 2 or 8 to move the cursor. Select ENABLE to display Text Information INFO 1–8, select DISABLE to not display Text Information INFO 1–8.

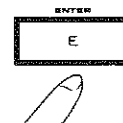


```

SET UP MODE MENU 001
INFO 1 ENABLE/DISABLE
INFO 2 ENABLE/DISABLE
INFO 3 ENABLE/DISABLE
INFO 4 ENABLE/DISABLE
INFO 5 ENABLE/DISABLE
INFO 6 ENABLE/DISABLE
INFO 7 ENABLE/DISABLE
INFO 8 ENABLE/DISABLE
EXIT
    
```

- Repeat steps 6, and select at INFO 1–8 to choose whether or not to display this information.

- To exit this mode, move the cursor to EXIT and press the ENTER button.

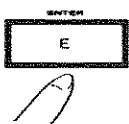


```

SET UP MODE MENU 001
INFO 1 ENABLE/DISABLE
INFO 2 ENABLE/DISABLE
INFO 3 ENABLE/DISABLE
INFO 4 ENABLE/DISABLE
INFO 5 ENABLE/DISABLE
INFO 6 ENABLE/DISABLE
INFO 7 ENABLE/DISABLE
INFO 8 ENABLE/DISABLE
EXIT
    
```

- Press the ENTER button.

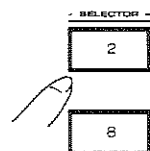
- The monitor changes to the next screen.



```

SET UP MODE MENU 000
SELECT INFORMATION1-8
DISPLAY SPEED      8
LINE POSITION       10
ON SCREEN PAL/NTSC
EXIT
    
```

- Press SELECTOR buttons 2 or 8 and select the desired line (1 to 8) of SELECT INFORMATION.



```

SET UP MODE MENU 000
SELECT INFORMATION1-8
DISPLAY SPEED      8
LINE POSITION       10
ON SCREEN PAL/NTSC
EXIT
    
```

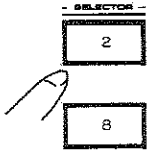
### NOTE:

Not all items can be disabled (DISABLE).

**Setting the DISPLAY SPEED**

- Press the POWER switch while holding down the MEMORY CHECK button located on the COMMANDER.
- The monitor will display the SET UP MODE MENU screen.

1. Press SELECTOR buttons 2 or 8, and select INFO DATA FUNC SET UP.



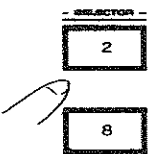
```

SET UP MODE MENU 0:00
INFO DATA MODIFY
INFO DATA FUNC SET UP

ADV FUNC SET UP
ADV RETRIEVAL EXEC

EXIT
    
```

2. Press SELECTOR buttons 2 or 8 and select DISPLAY SPEED.

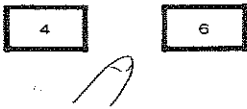


```

SET UP MODE MENU 0:00
SELECT INFORMATION1-8
DISPLAY SPEED      8
LINE POSITION       10
ON SCREEN PAL/NTSC
EXIT
    
```

3. Press SELECTOR buttons 4 or 6 to change the DISPLAY SPEED.

- The display speed increases as the numbers ascend.



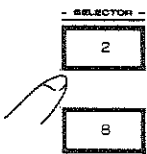
```

SET UP MODE MENU 0:00
SELECT INFORMATION1-8
DISPLAY SPEED     10
LINE POSITION      10
ON SCREEN PAL/NTSC
EXIT
    
```

**Screen Position Setting**

- Press the POWER switch while holding down the MEMORY CHECK button located on the COMMANDER.
- The monitor will display the SET UP MODE MENU screen.

1. Press SELECTOR buttons 2 or 8, and select INFO DATA FUNC SET UP.



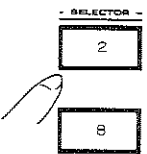
```

SET UP MODE MENU 0:00
INFO DATA MODIFY
INFO DATA FUNC SET UP

ADV FUNC SET UP
ADV RETRIEVAL EXEC

EXIT
    
```

2. Press SELECTOR buttons 2 or 8 to select LINE POSITION.

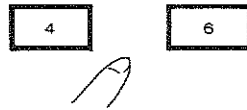


```

SET UP MODE MENU 0:00
SELECT INFORMATION1-8
DISPLAY SPEED     10
LINE POSITION      18
ON SCREEN PAL/NTSC
EXIT
    
```

3. Press SELECTOR buttons 4 or 6 to change the position.

- The first line from the top is 1, the lowest line is 10, the tenth line.

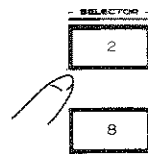


```

SET UP MODE MENU 0:00
SELECT INFORMATION1-8
DISPLAY SPEED     10
LINE POSITION      1
ON SCREEN PAL/NTSC
EXIT
    
```

**Setting the TV model mode.**

1. Press SELECTOR buttons 2 or 8, and select INFO DATA FUNC SET UP.



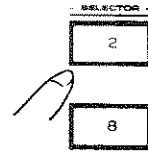
```

SET UP MODE MENU 0:00
INFO DATA MODIFY
INFO DATA FUNC SET UP

ADV FUNC SET UP
ADV RETRIEVAL EXEC

EXIT
    
```

2. Press SELECTOR buttons 2 or 8 to select ON SCREEN.



```

SET UP MODE MENU 0:00
SELECT INFORMATION1-8
DISPLAY SPEED     10
LINE POSITION      1
ON SCREEN PAL/NTSC
EXIT
    
```

3. Press SELECTOR buttons 4 or 6 to select NTSC or PAL.



```

SET UP MODE MENU 0:00
SELECT INFORMATION1-8
DISPLAY SPEED     10
LINE POSITION      1
ON SCREEN PAL/NTSC
EXIT
    
```

4. Press the ENTER button.

- The screen will automatically exit this mode. To exit these set modes, select EXIT and press the ENTER button.
- The monitor will return to the first set mode screen.



```

SET UP MODE MENU 0:00
SELECT INFORMATION1-8
DISPLAY SPEED     10
LINE POSITION      1
ON SCREEN PAL/NTSC
EXIT
    
```

DISPLAY DURING INTERVAL BETWEEN SONGS

**[Relationship between setting of the BGV mode and display types for intervals]**

There are six different BGV modes available for setting, which are used after a karaoke tune (including no BGV and no display) according to the display type setting for intervals between songs. Select the desired BGV type by referring to the table shown below. The display for intervals between songs will be cleared from the screen when playback of the next song starts.

|   | MODE SELECTOR         |                       | DISPLAY               |                       |                       | Monitor output (display during intervals and BGV) |   |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|
|   | KARAOKE 1             | KARAOKE 2/NORMAL      | 1                     | 2                     | OFF                   | Next song is reserved                             | No song is reserved for the next playback |
| 1 |                       | <input type="radio"/> | <input type="radio"/> |                       |                       | Karaoke bird → Information                        | Karaoke bird → Information                |
| 2 |                       | <input type="radio"/> |                       | <input type="radio"/> |                       | Information                                       | Information                               |
| 3 |                       | <input type="radio"/> |                       |                       | <input type="radio"/> | No display (black screen)                         | No display (black screen)                 |
| 4 | <input type="radio"/> |                       | <input type="radio"/> |                       |                       | Karaoke bird → Information                        | Karaoke bird → Information → BGV          |
| 5 | <input type="radio"/> |                       |                       | <input type="radio"/> |                       | Information                                       | Information → BGV                         |
| 6 | <input type="radio"/> |                       |                       |                       | <input type="radio"/> | No display (black screen)                         | No display (black screen) → BGV           |



# ADVERTISING SEND FUNCTION

The ADVERTISING SEND function plays back commercials at set intervals. ADV discs can be played back independently from the BGV disc play back. The number of times the ADV disc has been played during a certain period can be output using the computer (Data retrieval function) in order to show the advertising sponsor how often the advertising material has been played.

Set the ADV disc in Changer Tray No. 47/48.

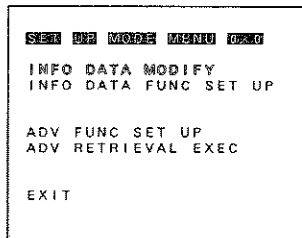
- Refer to page 22 for instructions about exchanging discs, and then exchange or set the disc.
- When additional changers have been installed, the setting address will move upwards to the largest changer No. 47/48.

**NOTE:**

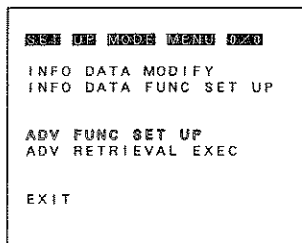
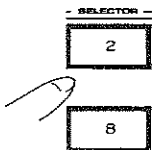
When additional changers have been installed, disc numbers will also change. For address 2, disc numbers will be No. 97/98; for address 3: No. 147/148; and, for address 4: No. 197/198.

1. Press the POWER switch while holding down the MEMORY CHECK button located on the commander.

- If the commander Power is already ON, switch it OFF before starting this procedure.
- The monitor will display the SET UP MODE MENU screen.

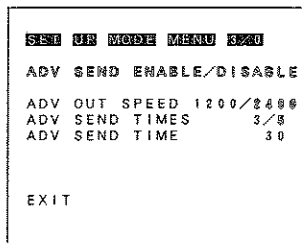


2. Press SELECTOR buttons 2 or 8 to select ADV FUNC SET UP.



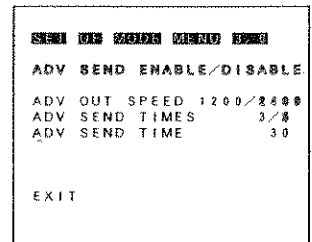
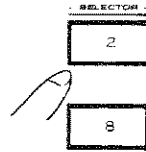
3. Press the ENTER button.

- The monitor will display the ADV SEND ENABLE/DISABLE screen.

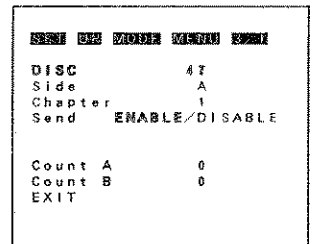


Setting ADVERTISING DISC play back.

1. Press SELECTOR buttons 2 or 8 to select ADV SEND ENABLE/DISABLE.



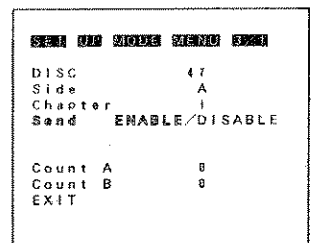
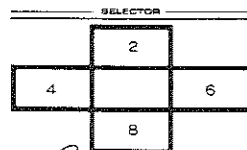
2. Press the ENTER button. The monitor will change to the next screen.



3. Move the cursor up or down using buttons 2 or 8 of the SELECTOR and select the item to be set.

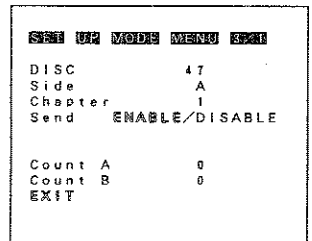
Revise the item using buttons 2 or 8.

- DISC: Select whether the changer tray to be used will be No. 47 or No. 48.
- Side: Select whether to play back side A (front) or side B (reverse).
- Chapter: Select the chapter to be played back (1 to 78).
- Send: Select whether or not to turn on the ADV SEND function. Use the 4 and 6 buttons to select ENABLE to turn on the ADV SEND function. The ADV to be sent will be identified by numbers stating the DISC, side and chapter. Use the 4 and 6 buttons to select DISABLE to turn off the SEND ADV function.
- Count A: The number of times advertising has been sent when activated by a set number of performances.
- Count B: The number of times advertising has been sent when activated by no songs selected.



4. After completing step 3, move the cursor to EXIT and press the ENTER button.

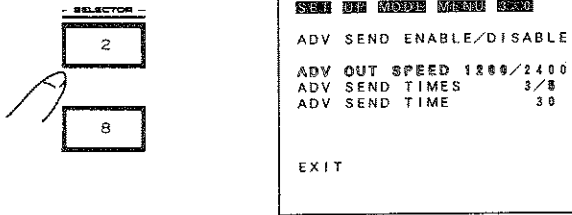
- The monitor display will return to the ADV SEND ENABLE/DISABLE screen.



**Setting ADV SEND and output speed for data retrieval.**

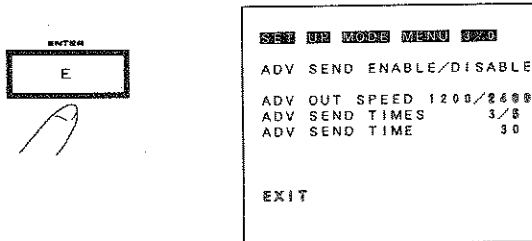
1. Use 2 and 8 of the SELECTOR buttons to select the item to be set.

- Revisions can be made using buttons 2 and 8.
- ADV OUTPUT SPEED: Select the transmission speed (bps) when retrieving advertising statistics. The transmission format should be set to the following parameters: 8 bit, stop bit: 1 bit, and parity: 0.
  - ADV SEND TIMES: Select whether to play back the commercial after either 3 or 5 karaoke performances.
  - ADV SEND TIME: When there are no karaoke performances, select the length of the interval between play back times. Intervals are measured in units of 10 minutes, from a minimum of 10 minutes to a maximum of 60 minutes.



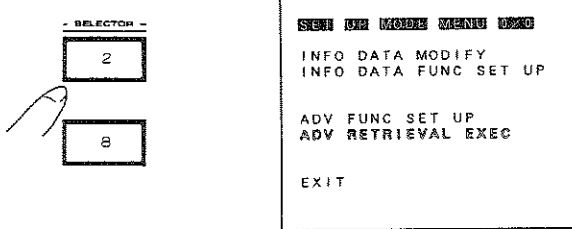
2. When step 2 has been completed, move the cursor to EXIT and press the ENTER button.

- The monitor will display the ADV SEND ENABLE/DISABLE screen.
- To exit from this setting mode, select EXIT and press the ENTER button.
- The monitor display will return to the first screen.



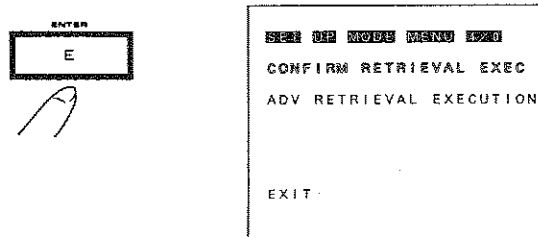
**Execution of data retrieval**

1. Press SELECTOR buttons 2 or 8 and select ADV RETRIEVAL EXEC.



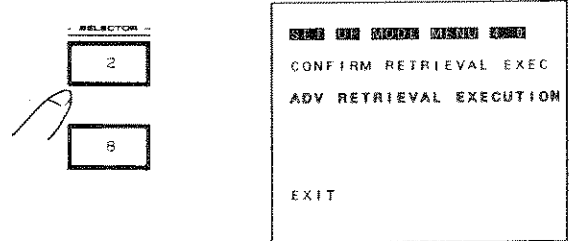
2. Press the ENTER button.

- The monitor displays the ADV RETRIEVAL screen.



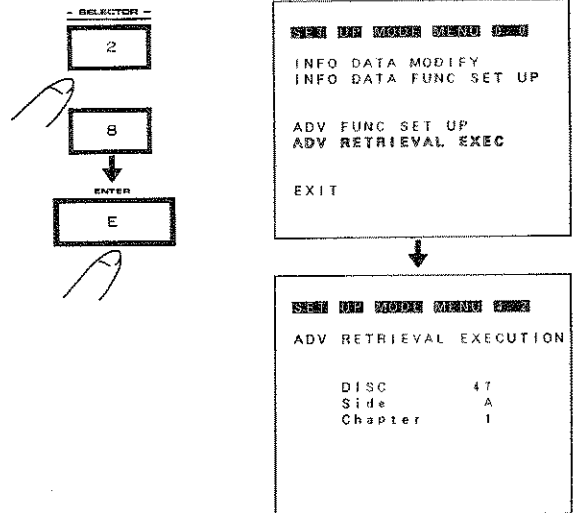
3. Check connection with personal computer

- Select CONFIRM RETRIEVAL EXEC. Then press the ENTER button. The message "Advertising Test ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789" will be sent from the commander to the personal computer. When the personal computer does not confirm that the message has been sent, check the personal computer-commander cable connections and the output speed. When the personal computer does confirm that the message has been sent, data retrieval can be executed by selecting "ADV RETRIEVAL EXECUTION".



4. Retrieving ADV SEND DATA

- Select ADV RETRIEVAL EXEC. Then press the ENTER button. The screen will change to the ADV RETRIEVAL EXECUTION screen. At the same time, data will start being output to the personal computer. The screen will change and start displaying numbers identifying the DISC, side and chapter of the data being output. When all the required data has been output, the monitor will return to the original screen.



**NOTE:**

ADV SEND frequency data which has been stored will be cleared when data is output by the personal computer. Pressing the Commander CLEAR button when data is being output to the personal computer will cancel data output and the monitor will return to the original screen. In this case, the ADV SEND frequency data which has been output will be cleared.

Example of ADV RETRIEVAL OUTPUT:

| DISC No | Side | ADV No | Count A | Count B | Output  |
|---------|------|--------|---------|---------|---------|
| 47      | A    | 1      | 123     | 87      | Enable  |
| 47      | A    | 2      | 3       | 7       | Enable  |
| 47      | A    | 3      | 1243    | 87      | Enable  |
| 47      | A    | 77     | 0       | 0       | Disable |
| 47      | A    | 78     | 0       | 0       | Disable |
| 47      | B    | 1      | 34      | 390     | Disable |
| 47      | B    | 78     | 0       | 0       | Disable |
| 48      | A    | 1      | 344     | 390     | Enable  |
| 48      | A    | 78     | 0       | 0       | Disable |

# TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think something is wrong with this unit, check the points below. Investigate the other components and electrical attachments being used. If the trouble cannot be rectified after the checks listed below, consult your nearest PIONEER authorized service center or your dealer.

| Symptom   | Cause   | Remedy  |  |
|---|---|---|--|
| 1. No selection button is available.  | <ul style="list-style-type: none"> <li>Condensation has occurred in the AutoChanger.</li> <li>AutoChanger front cover is open.</li> </ul>   | <ul style="list-style-type: none"> <li>Do not operate the system for one to two hours; operate it only after the condensation has evaporated (the time varies depending on the amount of condensation).</li> <li>Close the front cover.</li> </ul>  |  |
| 2. Disc is rotating, but no video appears on the screen.                          | <ul style="list-style-type: none"> <li>Monitor TV power is not turned on.</li> <li>Some terminals are disconnected.</li> </ul>  | <ul style="list-style-type: none"> <li>Turn the power on.</li> <li>Connect cables and power cords.</li> </ul>   |  |
| 3. Poor screen quality, image distortion, no playback available.                  | <ul style="list-style-type: none"> <li>Condensation has occurred in AutoChanger.</li> <li>Disc is dirty.</li> <li>Disc is warped.</li> </ul>  | <ul style="list-style-type: none"> <li>Do not operate the system for one to two hours and operate it only after the condensation is removed (the time varies depending on the amount of condensation).</li> <li>Clean the disc.</li> <li>If the disc is deformed, reform it.<br/>⇒ Put the disc in a protective envelope and place it between flat sheets, such as glass, then place a weight (about 5 kg) on it for one day. This may alleviate the warp.</li> </ul> <div style="text-align: center;"> <p>Heavy books (about ten pounds)</p> <p>Glass sheet</p> <p>Disc</p> <p>Protective envelope</p> <p>Glass sheet</p> </div> |  |
| 4. Color deviation on the screen.   | <ul style="list-style-type: none"> <li>Non-magnetically-shielded speakers are used too near the monitor TV.</li> </ul>  | <ul style="list-style-type: none"> <li>Separate the speakers and TV until the video color becomes normal.</li> </ul>  |  |
| 5. No sound is output when the VOLUME level of the mixing amplifier is increased. | Karaoke playback  | <ul style="list-style-type: none"> <li>MUSIC level control of the mixing amplifier is set too low.</li> <li>Incorrect connection between the mixing amplifier and commander.</li> </ul>   | <ul style="list-style-type: none"> <li>Adjust to the proper level.</li> <li>Correctly connect the mixing amplifier and commander.</li> </ul> |
|   | BGV reproduction  | <ul style="list-style-type: none"> <li>AUDIO LEVEL CONTROL is set too low.</li> </ul>   | <ul style="list-style-type: none"> <li>Adjust to the proper level.</li> </ul>  |
| 6. Microphone mixing does not operate.  | <ul style="list-style-type: none"> <li>Microphone plug is disconnected.</li> <li>MIC level control of the mixing amplifier is set too low.</li> <li>Mixing amplifier is operated in an incorrect manner.</li> </ul> | <ul style="list-style-type: none"> <li>Be sure to insert the plug into the MIC jack.</li> <li>Check the instructions on the mixing amplifier front panel and the operating instructions.</li> </ul>   |  |

# SPECIFICATIONS

## AUTOCHANGER COMMANDER CO-V100

### General

|                          |   |
|--------------------------|---|
| Power requirements       | AC 110 V/120 V/220-230 V/240 V<br>(Switchable), 50/60 Hz                    |
| Power consumption        | 30 W  |
| Weight (without package) | 5.5 kg (11 lb 11 oz)  |
| Dimensions               | 420 (W) × 348 (D) × 120 (H) mm<br>16-9/16 (W) × 13-11/16 (D) × 4-3/4 (H) in |
| Operating temperature    | +5°C to +35°C   |
| Operating humidity       | 5% to 90%   |

### Video input/output

|                 |          |
|-----------------|----------|
| INPUT terminal  | RCA jack |
| OUTPUT terminal | RCA jack |

### Audio input/output

|                  |          |
|------------------|----------|
| INPUT terminals  | RCA jack |
| OUTPUT terminals | RCA jack |

### Other terminals

|  |                            |
|--|----------------------------|
| TO COIN/BILL BOX                           | 8-pin DIN                  |
| REMOTE CONTROL SATELLITE<br>TO AUTOCHANGER | 4-pin MINI DIN             |
| OPTION                                     | 9-pin D-sub                |
| DATA                                       | 9-pin D-sub                |
| VHF ADAPTER OUTPUT                         | Both RCA jack with DC jack |

### Functions

- BILL BOX mode ON/OFF switchable
- Program selection Up to eight songs
- Program change and cancellation Within 30 seconds  
from playback start
- START mode AUTO/MANUAL switchable,  
INTERCEPTION play available
- BGV mode VIDEO-AUDIO OFF switchable
- ADV mode ON/OFF switchable

### Accessories

|                                 |   |
|---------------------------------|---|
| • Video cable                   | 1 |
| • Audio cable                   | 1 |
| • Remote control unit (CU-V132) | 1 |
| • Size "AA" battery (R6/UM-3)   | 2 |
| • Operating instructions        | 2 |

### NOTE:

- Specifications and design subject to possible modifications without notice, due to improvement.

"Dieses Produkt entspricht den Funkentstörvorschriften der EG (87/308/EEC)".

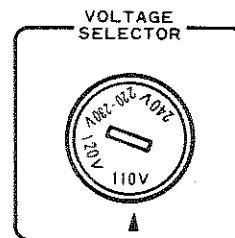
**ATTENTION:** Toujours utiliser les câbles d'interface gainés en cas de raccordement de cet équipement à d'autres dispositifs.

Nous vous remercions pour cet achat d'un produit Pioneer. Nous vous demandons de lire soigneusement ce mode d'emploi; vous serez ainsi à même de faire correctement fonctionner l'appareil. Après avoir bien lu le mode d'emploi, le ranger dans un endroit sûr pour pouvoir s'y référer ultérieurement. Dans certains pays ou certaines régions, la forme de la fiche d'alimentation et de la prise d'alimentation peut différer de celle qui figure sur les schémas, mais les branchements et le fonctionnement de l'appareil restent les mêmes.

### SELECTEUR DE TENSION DE LIGNE

Le sélecteur de tension de ligne est situé sur le panneau arrière de ce dispositif de commande. Avant que votre dispositif de commande ne soit expédié de l'usine, le sélecteur est réglé d'après l'alimentation électrique de la destination du dispositif de commande. Vérifier qu'il est bien réglé avant de brancher le câble d'alimentation dans la prise murale. Si la tension n'est pas correctement réglée ou si vous déménagez dans une région où l'alimentation diffère, ajuster le sélecteur de la manière suivante:

Utiliser un tournevis de taille moyenne (lame plate). Insérer la pointe du tournevis dans la rainure du sélecteur et le faire glisser pour régler le lecteur d'après la tension de votre région.



(La figure indique 110 V.)

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