



Operating Instructions
Mode d'emploi
Bedienungsanleitung
Istruzioni per l'uso
Manual de instrucciones

LC-V20/LC-V20-K

VIDEO DISC AUTOCHANGER
CHANGEUR AUTOMATIQUE DE DISC VIDEO
BILDPLATTEN-AUTOMATIKWECHSLER
LETTOR DI VIDEO DISCHI CON CAMBIAMENTO AUTOMATICO DEL DISCO
CAMBIADOR AUTOMÁTICO DE VIDEODISCOS

LJ-V20/LJ-V20-K

SELECTION COMMANDER CONSOLE DE SELECTION TITELWAHL-BEDIENTEIL SELETTORE DEI TITOLI CONTROLADOR DE SELECCIONES

CB-V2520/CB-V2520-K

LASER JUKE SYSTEM RACK
PACK POUR LASER JUKE
LASER JUKE-SYSTEMGESTELL
SCAFFALE SISTEMA LETTORE LASER
BASTIDOR DEL SISTEMA REPRODUCTOR DE VIDEODISCOS LÁSER

CB-V2530

LASER JUKE MONITOR STAND SUPPORT POUR MONITEUR GESTELL FÜR LASER JUKE-MONITOR SUPPORTO MONITOR LETTORE LASER SOPORTE DEL MONITOR DEL REPRODUCTOR DE VIDEODISCOS LÁSER

CB-V2540

SELECTION COMMANDER STAND SUPPORT POUR CONSOLE DE SELECTION GESTELL FÜR TITELWAHL-BEDIENTEIL SUPPORTO SELETTORE DEI TITOLI SOPORTE DEL CONTROLADOR DE SELECCIONES

CB-V2560

SELECTION COMMANDER WALL MOUNT KIT
KIT DE MONTAGE POUR CONSOLE DE SELECTION
WANDMONTAGESATZ FÜR TITELWAHL-BEDIENTEIL
CORREDO PER IL MONTAGGIO A MURO DEL SELETTORE DEI TITOLI
JUEGO DE MONTAJE EN LA PARED DEL CONTROLADOR DE SELECCIONES

English

Français

Deutsch

Italiano

Español

IMPORTANT 1



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of 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 of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT 2

CAUTION

This product containts a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.

Refer all servicing to qualified personnel.

The following caution labels appear on your videodisc autochanger:

Location: On the rear panel of the videodisc autochanger

CLASS 1 LASER PRODUCT VRW-328 On the top of the video disc autochanger

CAUTION
LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO BEAM.
ADVARSEL

FARE FOR USYNLIG LASERSTRÁLING VED ÁBNING AF DÆKSEL UNDGÅ AT UDSÆTTE OJNENE FOR STRÁLING. VORSICHT!

UNSICHTBARE LASER-STRAHLUNG TRITT AUS, WENN DECKEL (ODER KLAPPE) GEÖFFNET ISTI NICHT DEM STRAHL AUSSE-TZENI.

VRW-47F

IMPORTANT 3

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.

FOR USE IN THE UNITED KINGDOM

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

Blue: Neutral Brown: Live As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:

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.

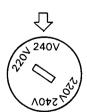
Equipment sold in the U.K. is not supplied with a power plug.

LINE VOLTAGE SELECTOR SWITCH

A 2-point (220V/240V) voltage selector switch is located on the front panel in the door of the videodisc autochanger.

Check that it is set properly before plugging the mains lead into an AC outlet. If the voltage is not properly set or if you move to an area where the voltage supply differs, adjust the selector switch as follows:

- 1. Disconnect the mains lead.
- 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 videodisc autochanger to the power voltage of your area.



Point arrow to power voltage of your area (Figure shows arrow pointing to 240 volts.)

"This product is manufactured to comply with the radio interference requirements of EEC Directive 76/889/EEC and 82/499/EEC."

ADVARSEL

LITHIUMBATTERI, EXSPLOSIONSFARE. UDSKIFTNING MA KUN FORETAGES AF EN SAGKYNDIG, OG SOM BESKREVET I SERVICEMANUALEN. 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.

FEATURES

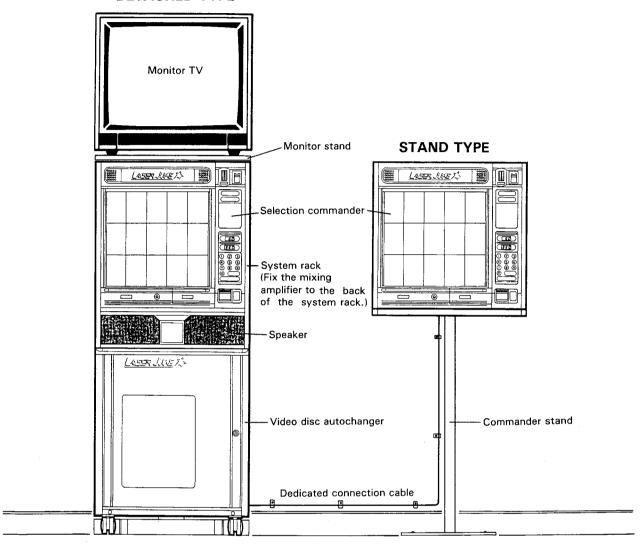
- * The selection commander is separated from the video disc autochanger to allow flexible installation.
- * Small and space-saving
- * One video disc autochanger can be connected to up to three selection commanders.
- * Maximum 99 music pieces can be reserved.
- * This product can be set music that is prohibited to play.
- $oldsymbol{*}$ The promotion play function can be set.
- * Maintenance is easy.

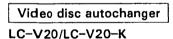
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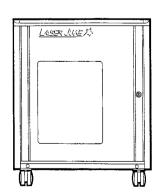
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LASER JUKE SYSTEM

DETACHED TYPE



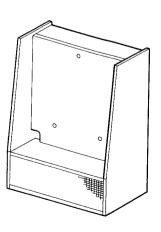




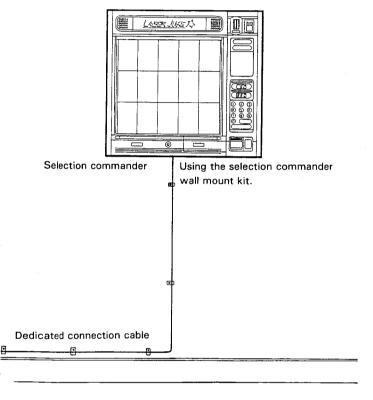
Selection commander
LJ-V20/LJ-V20-K



Laser juke system rack
CB-V2520/CB-V2520-K

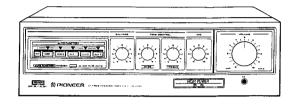


WALL-MOUNT TYPE



Mixing amplifier

SA-V190



Speaker system

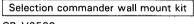
CS-V150





Laser juke monitor stand

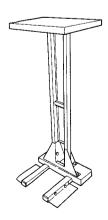
CB-V2530

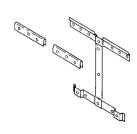


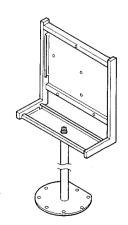
CB-V2560

Selection commander stand

CB-V2540







CAUTIONS ON INSTALLATION AND HANDLING

Select a horizontal and stable place. Avoid the following:

- 1) Place exposed to direct sunlight
- 2 Near a toilet or kitchen
- ③ Place exposed to a spotlight
- A Near a refrigerator, dimmer, air-conditioning equipment or other large electrical appliances
- ⑤ Near neon signs
- Non-horizontal place with a weak floor (Select a floor that can withstand a static load of 250 kg minimum. Where the floor is not horizontal, insert a hard plate or something similar beneath the casters.)
- Place where it is difficult to carry out coin collection, servicing or maintenance.

Condensation

In winter, if this system is brought from outdoors into a heated room or the temperature of the room where this system is installed is raised quickly, the operation unit or lens will be covered in condensation.

When covered in condensation, this system cannot read and play laser beam signals.

Keep this system at room temperature for one to two hours depending on the degree of condensation and the condensation will evaporate, making this system ready for playing.

Other symptoms similar to condensation may also occur at places exposed directly to a cooler or air-conditioner in summer. In such a case, move this system to another location.

Do not transport the autochanger with discs inside.

Special cautions on setting

1 Power capacity

Supply power from a wall outlet that allows a safe supply of power equal to or more than the total power consumption of all equipment you will use.

2 Connection cord

Prevent the weight or tensile force of the cord from being applied to the plug of the connection cord.

3 Grounding

Where no earth leakage breaker is available, connect the grounding conductor to the earth.

4 Color monitor

Demagnetize the color monitor.

5 Confirmation after setting

Be sure to confirm the following:

- Casters are locked.
- · The coin rate is properly set.
- The menu sheet matches the discs.
- The speaker phase is properly set and the right and left speakers are positioned properly.

- A combination of the laser juke monitor stand and the monitor TV weighs about 90 kg.
- The combination of the selection commander stand and the selection commander weighs about 55 kg.
- The combination of the selection commander wall mount kit and the selection commander weighs about 40 kg.

Make sure that the structure, material and strength of the wall and floor on which to install this system are sufficient before fixing it to the wall and floor.

Our company will not be responsible for any accident or other damage due to an improper fixing condition, fixing with insufficient strength, accident, or other similar circumstances.

CAUTION ON HANDLING THE STANDS, WALL MOUNT KIT AND RACK.

- Some parts are heavy while others are sharp-edged. On assembling, wear gloves and handle the parts with care.
- · Tighten the screws securely.
- Entrust the task of fixing the stand, etc. to a professional installer who will fix it in accordance with the floor condition.
- Before assembling the stand, etc., lay a carpet or old blanket on the portion of the floor where you wish to do the assembly work. This protects the floor and stand, etc. from damage.
- Use the stands and wall mount kit in close contact with the wall.
- After mounting the Laser juke system rack on the video disc autochanger, be sure to connect and fix using screws.

INSTALLATION (1)

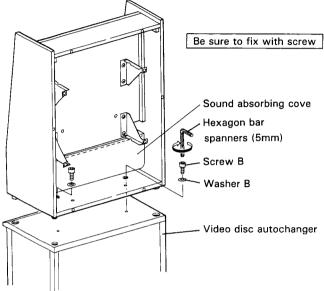
CAUTIONS ON INSTALLING THE SYSTEM RACK AND RELATED EQUIPMENT

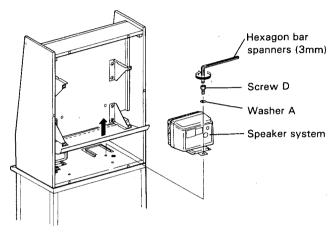
- O For how to assemble each component, see the assembly drawing (page 36).
- 1 Fix the system rack to the video disc autochanger.
 - Mount the system rack on the video disc autochanger.
 - Fix the system rack to the video disc autochanger using the two system rack-fixing screws.

9

3 Fix the speaker system to the system rack.

• Fit the speaker system to the system rack supports and attach it using fixing screws.





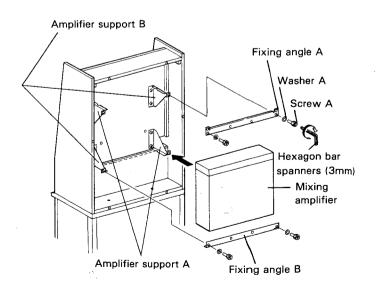
2 Fix the mounting brackets to the speaker system.

Phillips screwdriver (medium size) Screw C Speaker mounting bracket Speaker system

Remove and replace the speaker system grill net so as to orient the name plate in the direction shown in the above figure.

4 Fix the mixing amplifier to the system rack.

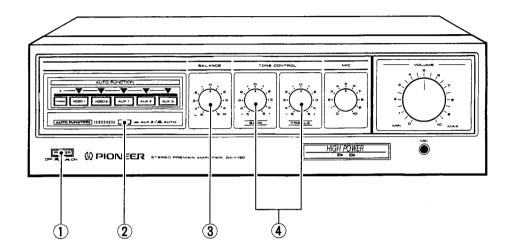
- Mount the mixing amplifier on the amplifier supports at the back of the system rack.
- Fix the mixing amplifier using fixing angles.
 Use the same screw A and washer as those used for removing fixing angles A and B.



5 Set each switch on the mixing amplifier.

• Setting the mixing amplifier (SA-V190)

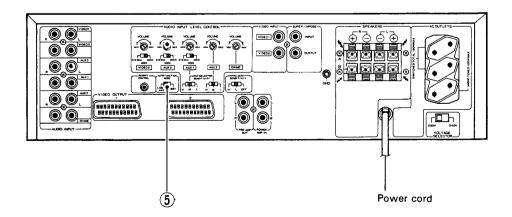
- [Front panel]
 Turn on POWER switch ①.
 Set AUX2/AUTO ② to AUTO.
- Set ③ and ④ to CENTER.



[Rear panel]

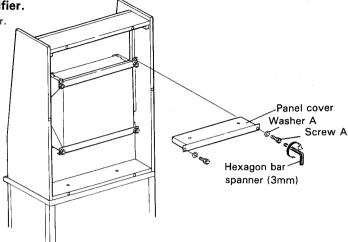
- Set auto function mode selector ⑤ to LASER JUKE.
- Other switches have no relation with basic system operation.

If you wish to use any of them, see the SA-V190 operating instructions.



6 Install the panel cover on the mixing amplifier.

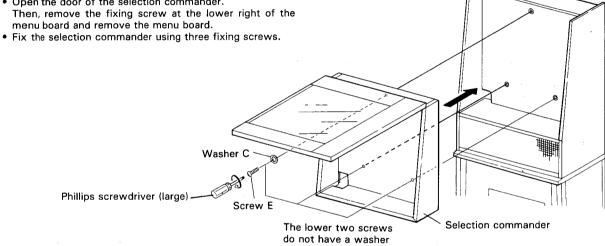
Confirm each switch setting of the mixing amplifier.
Fix the panel cover.



7 Fix the selection commander to the system rack.

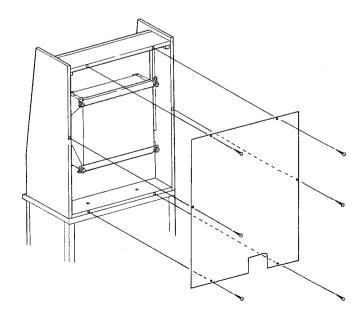
• Mount the selection commander on the system rack.

• Open the door of the selection commander. Then, remove the fixing screw at the lower right of the menu board and remove the menu board.



8 Fix the back cover.

• The back cover is used for sales promotion



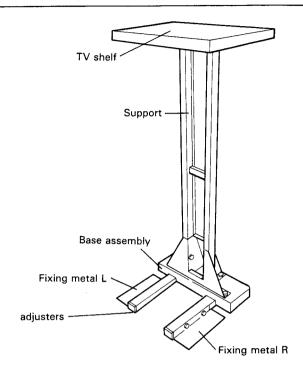
INSTALLATION (2)

CAUTIONS ON INSTALLING THE MONITOR STAND AND RELATED EQUIPMENT

O For how to assemble each component, see page 37.

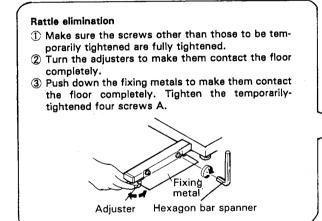
1 Install the monitor stand at the specified place.

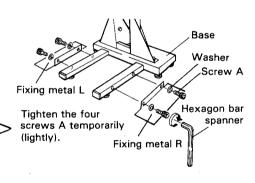
- Confirm that the cushion is attached to the back of the TV shelf.
- Place the monitor stand in the specified location.
- Attach the upper and lower parts of the monitor stand to the wall and adjust the lower six adjusters to fasten the monitor stand tightly.



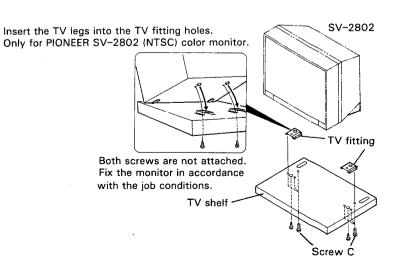
2 Fix the monitor stand to the floor.

- Attach fixing metals L and R closely to the floor and fasten the screws using a hexagon bar spanner.
- Using screws, fix the monitor stand to the holes of fixing metals L and R for fixing to the floor.





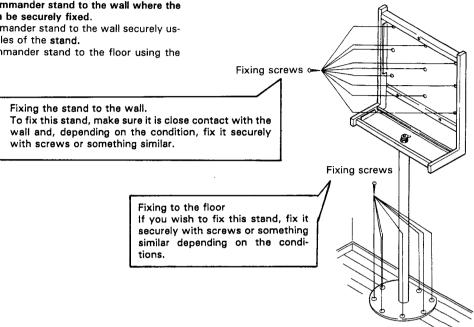
3 Fix the monitor TV.



- O For how to assemble each component, see page 38.
- 1 Install the selection commander stand at the specified location.

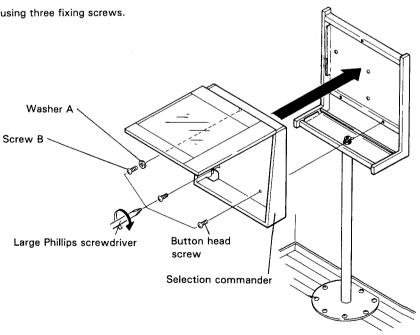
Attach the selection commander stand to the wall where the stand-fixing screws can be securely fixed.

- Fix the selection commander stand to the wall securely using the wall-fixing holes of the stand.
- Fix the selection commander stand to the floor using the eight fixing screws.



2 Fix the selection commander to the selection commander stand.

- Mount the selection commander on the selection commander stand.
- Unlock the door.
- Fix the selection commander using three fixing screws.

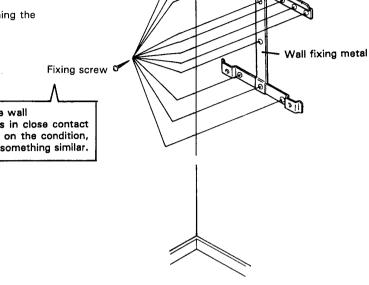


Fix the selection commander wall mount kit to the wall.

- Fix the mounting bracket to the specified place on the wall using ten fixing screws.
- Examine the wall structure carefully before tightening the fixing screws securely.
- Do not fix this kit to a gypsum-board wall.

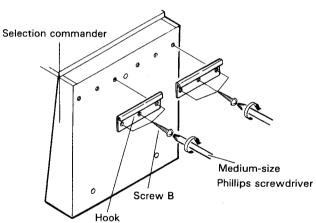
Fix the wall fixing metal to the wall

To fix this kit, make sure it is in close contact
with the wall and, depending on the condition,
fix it securely with screws or something similar.



2 Fix the hook to the selection commander.

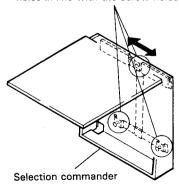
 As shown in the right-hand figure, fix the hook to the back of the selection commander using fixing screws.

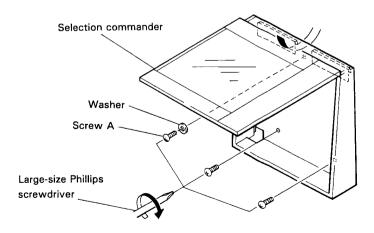


3 Hook the selection commander to the wall-fixing metals.

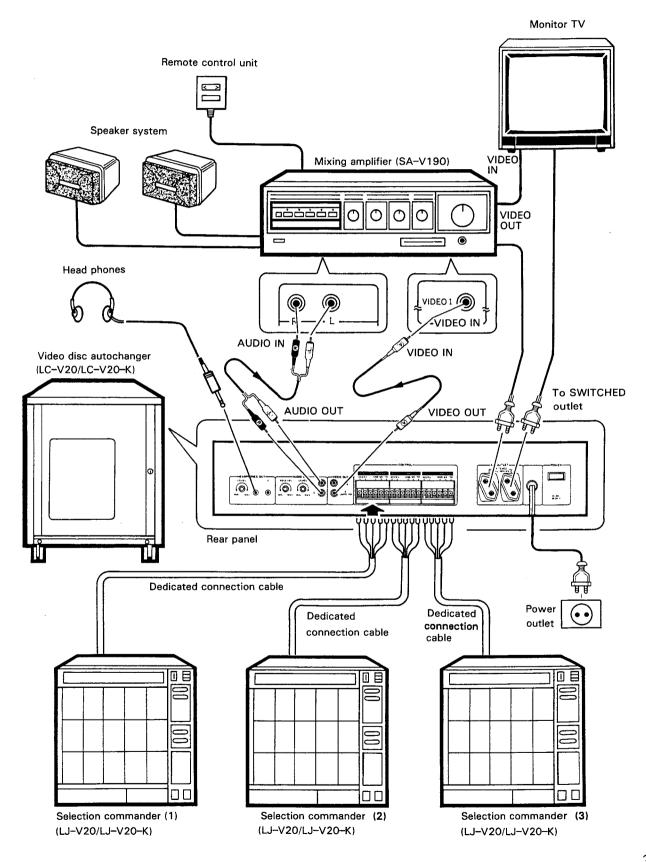
- Hook the selection commander to the wall-fixing metals.
- Fix the selection commander using three fixing screws.

Set the three selection commander fixing holes in line with the screw holes.





Basic system connection



INSTALLATION (6)

CONNECTING THE COMMUNICATION CABLES OF THE SELECTION COMMANDER AND VIDEO DISC AUTOCHANGER

1 Connecting the video disc autochanger

- When two selection commanders are used, connect the selection commander cables to the terminals marked COM-MANDER 1 and 2.
- Connect AC22V, GND SR and TR in accordance.

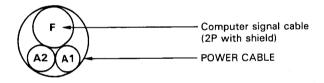
When the video disc autochanger is installed at a distance from the selection commander, use a cable satisfying the following specifications:

		Characteristics			
ltem ·	Unit	Power trans- mission line	Signal trans- mission line		
Maximum conductor resistance (20°C)	Ω/km	14.5	59		
Minimum insulation resistance (20°C)	MΩ-km	5			
Withstand voltage (AC)	V/min	2000			

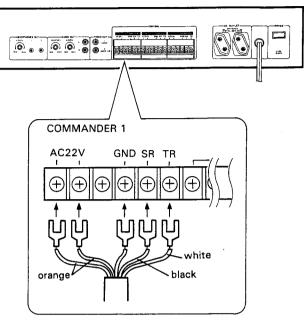
Note:

To protect the data from external noise, be sure to use a shielded cable as a signal transmission line and connect it to the GND terminal of the selection commander and video disc autochanger.

(Recommended cable design)

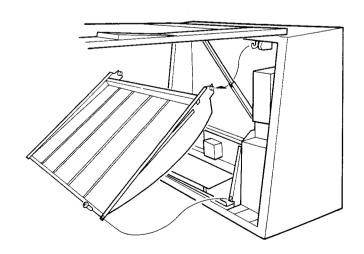


Rear panel of the video disc autochanger



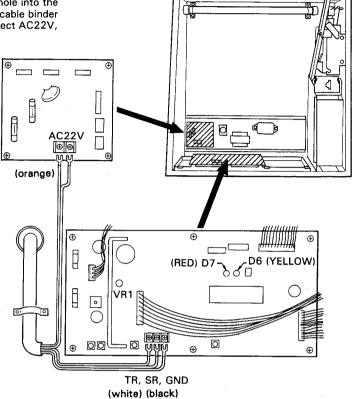
2 Detaching the menu board

- Open the selection commander door.
- Remove the fixing screws at the lower right of the menu board.
- Lift the menu board, move it forward and remove the hook.



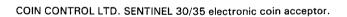
3 Connecting the selection commander

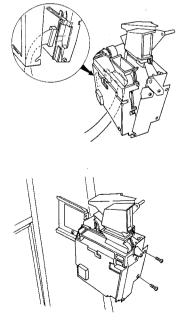
- Unlock the door.
- Open the selection commander door to remove the menu board.
- Pull the connection cable through the bottom hole into the selection commander. Press the cable using a cable binder in accordance with the right-hand figure. Connect AC22V, GND, SR and TR correctly.

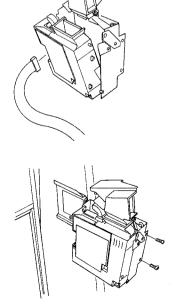


4 Attachment of Coin Acceptor

MARS MS 111 electronic coin acceptor



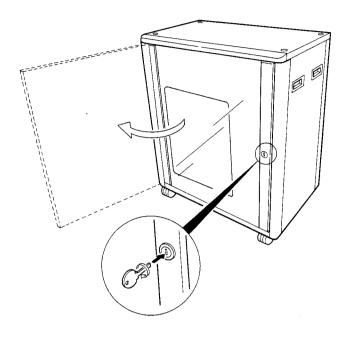




DISC INSTALLATION

1 Open the video disc autochanger door.

• Insert the key into the keyhole and turn the key clockwise to unlock the door.

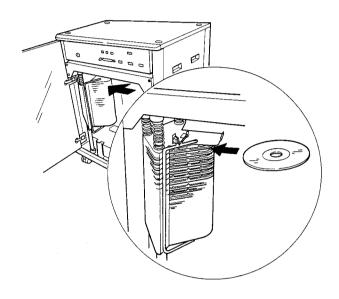


3 Disc installation

- Install a disc in accordance with the menu sheet.
 Place the disc so that Side A faces upwards.
- Take care not to damage the disc when installing it.

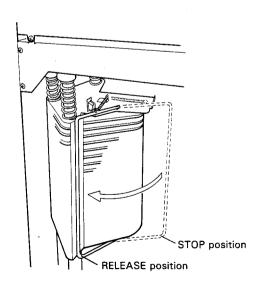
Tray address and music No.

- Install laser juke discs into tray No. 10 to 24 in black on a white background.
- Install advertising discs into tray No. 1 to 5 in white on a black background. Install discs starting from tray No. 1.

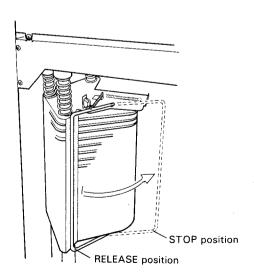


2 Confirm that the disc stopper is released.

• Confirm that the disc stopper is released as shown in Figure.



Setting the disc stopper to the STOP position allows this system to be moved on the floor with discs inside. After moving, set the disc stopper to the RELEASE position.



CASTER LOCK

CAUTIONS ON INSTALLING THE VIDEO DISC AUTOCHANGER, SELECTION COMMANDER AND RELATED EQUIPMENT

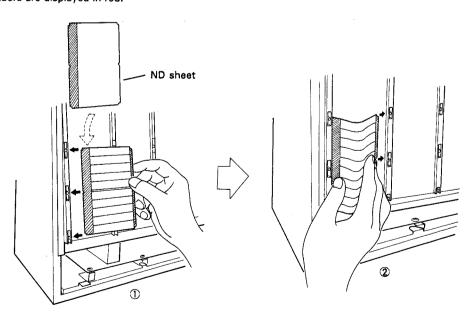
Installing the video disc autochanger After all the wiring is completed, mount the video disc autochanger on the monitor stand fixing metals. The front casters are equipped with a locking mechanism. Lock the casters as shown in the right-hand figure. Locked status Description: Locked status Locked status Description: Locked status Description: Locked status

lock, rotate the wheel a

little.

ATTACHING THE MENU SHEET

- ① Insert the left position of the menu sheet to meet its notchs to the protruding portions of the sheet guide.
- ② Bend the sheet and insert the right portion into the sheet guide.
- In the case of a new disc, insert a ND sheet under the menu sheet so that the menu numbers are displayed in red.



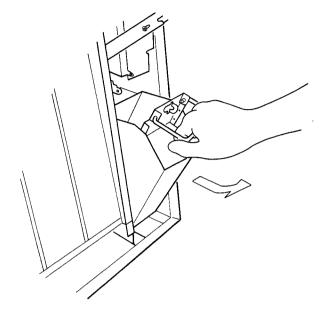
HANDLING THE COIN BOX

Taking out the coin box

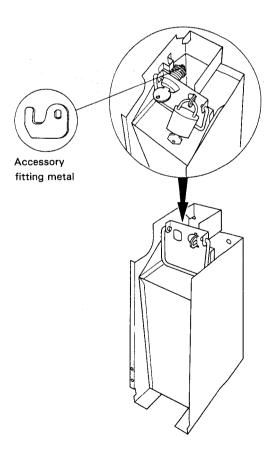
- Open the door and take out the coin box by pulling the handle.
- Where the coin box is equipped with an anti-burglar key, remove the key before taking the coin box out.
- After collecting the coins, fix the coin box as it was before.
 Where necessary, install an anti-burglar key.

Attaching the coin box

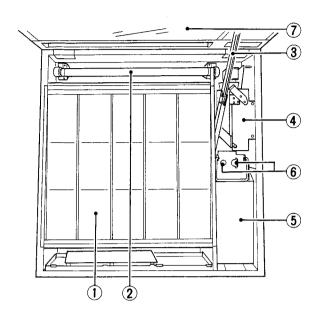
- Incline the lever towards you and push it.
- Inclining the lever in the reverse direction makes the attachment of the coin box impossible.

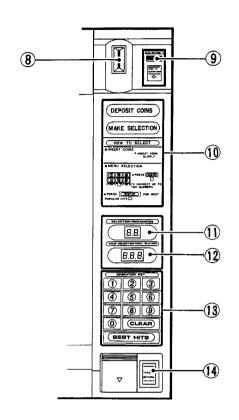


The coin box can be equipped with either a cylinder lock or padlock. One fitting metal is supplied as an accessory.



NAMES AND FUNCTIONS OF EACH PART





1) Menu board

Pluorescent lamp for menu illumination

- (3) Arm
- 4 Coin acceptor
- ⑤ Coin box
- 6 Key-fixing holes for the coin box
- 7 Door

(Operation unit)

8 Coin insertion hole

Caution

Inserted coins will not be returned even though the coin-return lever is operated. Insert only the amount of coins needed.

Coin-return lever

Operate the coin-return lever when a deformed or steel imitation coin is caught. This will cause the coin to return via the coin-return hole.

10 Operation guide display

• DEPOSIT COINS.

When this indication is lit up, you can insert coins. When it is off, inserted coins are returned via the coin-return hole.

• MAKE SELECTION.

This indication is lit up when the system is ready for music selection.

(1) SELECTION REMAININGS.

This indication shows the number of pieces of music you can select using the inserted coins.

12 YOUR SELECTION/NOW PLAYING

This indication shows the number of the piece of music entering by using numeric keys.

When no key input is being done, this indication shows the number of the piece of music currently being played.

(13) OPERATION KEY

Numeric keys

Use these keys to enter the number of the piece of music to be played.

CLEAR key

The selection can be canceled by pressing the CLEAR key before entering the last digit.

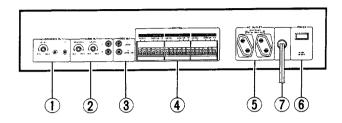
• BEST HIT key

The most-popular piece of music on the location is automatically selected.

(4) Coin-return hole

When a coin is inserted while the indication "DEPOSIT COINS" is off or unacceptable kinds of coins are inserted, they are returned via this hole.

(REAR PANEL)



1 HEADPHONES OUT (mini jack) and LEVEL control

2 AUDIO OUT (pin jacks), juke level control, and advertising play level control

These jacks connect to the input jacks of a stereo amplifier using the audio cord supplied with this system. Use the LEVEL and AD LEVEL controls to adjust the audio level for playing juke and advertising discs.

③ VIDEO OUT (pin jack)

- VIDEO OUT 1 Juke play only.
- VIDEO OUT 2 —— Juke play and advertising play.
 (iuke/advertising)

(4) CONTROL (SELECTION COMMANDER 1, 2, 3)

Connects to a maximum of three selection commanders.

(5) AC OUTLETS SWITCHED TOTAL 500W MAX

Power supplied through this outlet is turned on and off by this equipment's POWER switch. Total electrical power consumption of connected equipment should not exceed 500W.

NOTE:

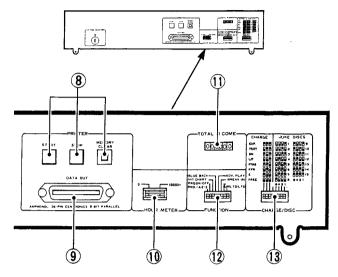
Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLETS, in order to avoid overheating or fire risk.

This can cause this equipment to malfunction.

6 Power switch (_ ON, _ OFF)

(7) Power cord

(FRONT PANEL)



8 Printer output control button

- START Outputs stored data via a printer.
- STOP Stops printout.
- MEMORY CLEAR Deletes the contents of the memory unit for the number of selections and income data.

DATA OUT terminal

Use the AMPHENOL 36-pin, CENTRONIX-based, 8-bit parallel printer to print out the number of music selections by discs or that by music pieces and income data.

(1) HOUR METER (0 to 10,000 hours)

Displays the duration of electricity applied to the video disc autochanger.

11) Income counter

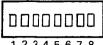
Displays the amount of coins deposited. (This income counter cannot be reset.)

12 FUNCTION switches

(3) CHARGE/DISC switches

DIP SWITCH SETTING

1. DIP switches for CHARGE/DISC



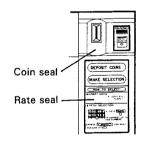
4	2	2	A	_	•	7	0
- 1	_	J	4	o	О		0

Na	Danal diaglass	Screen	UP	Description	
No.	Panel display display		DOWN		Jeschption
8	1	DISCS	ON	[™]	Use this switch to set the number of juke
	•		OFF	° 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	discs. The remaining trays will be used for
7	2		ON	or, 00003 or, 000011	advertising discs. Insert advertising discs starting from the
			OFF	° 0 0 0 4 ° 0 0 0 12 0 0 0 12 0 0 0 0 0 0 0 0 0 0 0	bottom.
6	4		ON	;;	
L	7		OFF	°°, 000 0 6 °°, 000 0 14	
5	8	٠	ON		
3			OFF	° P	
4					
		•		EXP. POP Expansion	The applicable asing and the appoint of
3				TEST OF Test	The applicable coins and the amount of money required are set.
				DM 🔲 🗀 — Germany	
2	CHARGE	CHARGE		LIT QQ — Italy PTAS QQ — Spain	
				FFR 000 — France	
1				£ 000 — United Kingdom	n
				FREE 000 — Free 123	

COIN HANDLING

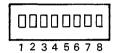
LJ-V20 (-K) is designed to be fitted with the electronic coin acceptor. (top entry, bottom reject type) Attach the coin acceptor which is designed for the coinage in that country.

LJ-V20 (-K) has following five pre-set patterns, corresponding to five major countries.



-		£	FFR	PTAS	LIT	DM
Country		UK	France	Spain	Italy	West German
Usable coins	Coin 4 Coin 3 Coin 2 Coin 1	£1 50p 20p 10p	10F 5F 2F 1F	100P 50P 25P	500L —— ——	5DM 2DM 1DM 50P
Price of p	lay	$30P \rightarrow 1 \text{ play}$ $50p \rightarrow 2 \text{ plays}$ £1 \rightarrow 4 plays	5F → 1 play 10F → 3 plays	75P → 1 play 100P → 2 plays	1000L → 1 play	1DM → 1 play 3DM → 4 plays 5DM → 7 plays

2. DIP switches for FUNCTION



NI	Daniel dissiles	Screen	UP	Description
No.	Panel display	display	DOWN	Description
			UNLIMITED	The number of pieces of music is not limited to 10.
8	UNLTD/LTD	SELECTION	LIMITED	When the sum of the number of credit pieces of music received from each commander (i.e. the number of pieces of music that can be selected: the number indicated on the commander) and the number of reserved pieces of music entered in the system exceeds 10, the deposit of an additional coin is inhibited for all commanders.
7				
			OFF	Normal mode
6	BREAK-IN	BRK	ON	A special mode for aging that operates while reducing the stand-by time for promotion play and playing time to 1/10 (In other cases, normal operation is carried out.)
5	ADV-PLAY	ADV	ON	During the time from the completion of the playing of all selected pieces of music to the beginning of music selection, AD discs are played continuously and automatically. The signal used at this time appears only at video output terminal 2 (JUKE/AD).
			OFF	No AD disc playing is carried out.
4	BLUE BACK	BLU	ON	While no video signal is transmitted from LDP, a BLUE BACK signal is transmitted to video output terminal 2 (JUKE/AD).
			OFF	No BLUE BACK signal is transmitted.
			ON	While no video signal is transmitted from LDP, best hit music information is transmitted to video output terminal 2 (JUKE/AD).
3	HIT CHART	CHR	. OFF	No best hit music information is transmitted. (However, although this switch is turned off, the message screen for promotion play and the message for the time the door is open are output).
2	PRO.ON/OFF	PRO	ON	When another piece of music is not selected for 10 minutes after playing all selected pieces of music, promotion play is carried out to urge music selection. This operation constitutes the playing of a randomly-selected juke piece of music for only one minute. If an AD piece of music is being played, the system moves on to promotion play after the piece play over.
			OFF	No promotion play is carried out.
1	PRO.1&2/2	PRO	ON	A promotion play signal is output to video output terminal 1 (JUKE) and video output terminal 2 (JUKE/AD).
	PHU. 1 & 2/2	PRO	ON'	A promotion play signal is output to video output terminal 2 (JUKE/AD) only.

OPERATOR MODE

Function of each switch

- 1. S1 ······ Registers identification numbers function 1 Registers expansion rates — function 3 2. \$2 ····· Registers inhibited music numbers
- 3. S3 Stops a piece of music currently being played 4. S4 Stops at a concerning reserved pieces of

music and credit data

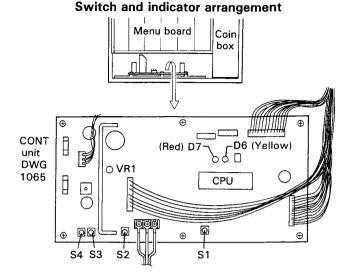
DESCRIPTION OF EACH FUNCTION

1. Registration of identification numbers

The yellow LED (D6) indicates the registration status.

Blinks during communication
On during input

Off during normal operation



1	Press S1.	Indication	Display on the operation section indicates Fu. The system enters the function mode.
2	Press numeric key "1" and the BEST HIT key.	<u></u>	The system enters the identification number registration mode.
3	Divide the identification number into 4 groups and enter the numbers starting from the top using the numeric keys.	<u> </u>	(Example) 204 294 21 151 Model number C1 C2 C3 C4 Column On making a mistake, repeat the input procedure after pressing the CLEAR key.
4	Press the BEST HIT key.	<u></u>	·
5	Repeat steps ③ and ④ above from C2 to C4. After C4 is entered, the display changes to what is indicated on the right.	E.J. P Blinks	Continuously press the BEST HIT key to confirm C1 to C4. When an error is found, clear the corresponding column and repeat the input procedure. After confirmation or reinput, press the BEST HIT key to put the system into the E.J. (end of job) mode.
6	Press numeric key "0" (escape).	E J Blinks	Press the BEST HIT key for the system to exit from the model number registration mode. (At this time, no model number is registered.) After exiting from this mode, the system returns to its original status.
7	Press numeric key "0" again (transmission).	E.J. Blinks	Continuously press numeric key "0" to enter the following: "noP" conformation and reinput of each column "ESC" escape "Snd" transmission
8	Press the BEST HIT key.		Beeping sound occurs and, after registration, the system returns to its original status.

2. Registration of expansion rates

When the rate-setting dip switch on the autochanger is set to the EXP (expansion) position, expansion rates can be registered using the commander.

The yellow LED (D6) indicates the registration status.

Press S1.	Indication Fu	Display on the operation section indicates Fu. The system enters the function mode.
Press numeric key "3" and the BEST HIT key.	P:	The system enters the expansion rate registration mode.
Press numeric keys to enter any number "**".	* *	P.1 to P.0 ····· credit table C.1 to C.4 ···· value table Numbers can be in the following range: P.1 to P.0 ···· 0 to 9 C.1 to C.4 ···· 0 to 10
Press the BEST HIT key.	P 2	
Repeat steps ③ and ④ for P.2 to P.0 and C.1 to C.4. After entering C.4, the display changes to what is indicated on the right.	EJ noP	The steps to be taken during the E.J. (end of job) mode are the same as steps ⑤ to ⑦ specified in clause "Registration of identification numbers".
Press numeric key "0" (escape mode).	EJ ESC	
Press numeric key "0" (transmission mode).	<u>EJ</u> 5-d	
Press the BEST HIT key.		A beeping sound occurs and, after registration, the system returns to its original status. (See Note 1.)
	Press numeric keys to enter any number "**". Press the BEST HIT key. Repeat steps ③ and ④ for P.2 to P.0 and C.1 to C.4. After entering C.4, the display changes to what is indicated on the right. Press numeric key "0" (escape mode). Press numeric key "0" (transmission mode).	Press numeric key "3" and the BEST HIT key. Press numeric keys to enter any number "**". Press the BEST HIT key. Press the BEST HIT key. Repeat steps ③ and ④ for P.2 to P.0 and C.1 to C.4. After entering C.4, the display changes to what is indicated on the right. Press numeric key "0" (escape mode). Press numeric key "0" (transmission mode).

Note 1:

A beeping sound occurs for each commander. Therefore, when three commanders are connected, a beeping sound occurs three

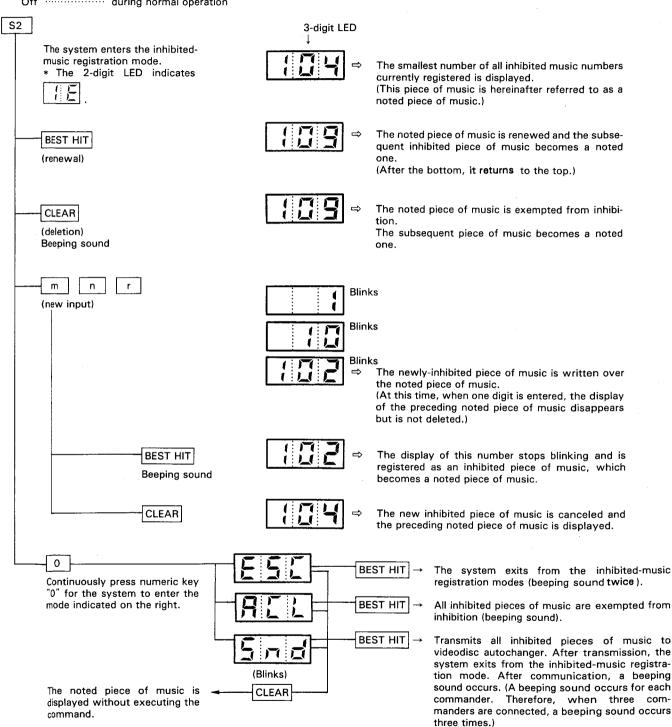
• The following table is a setting example. Infact these value are the same as those in the ROM.

		Value Table							Credit	Table				
	C-1	C-2	C-3	C-4	P1	P2	P3	P4	P5	P6	P7	P8	P9	PO
U.K.	1	2	5	10	0	0	1	0	2	0	0	0	0	4
France	1	2	5	10	0	0	0	0	1	0	0	0	0	3
Spain	0	1	2	4	0	0	1	2	0	3	0	0	0	О
Italy	0	0	0	1	0	1	0	0	0	0	0	0	0	0
W.Germany	. 1	2	4	10	0	1	0	0	0	4	0	0	0	7

3. Registration of inhibited music numbers

The red LED (D7) indicates the registration status. Blinks during communication On during input

Off during normal operation



OPERATOR MODE

4. Stoppage of music play

Operation

Press \$3. When the autochanger receives the signal, a beeping sound occurs.

5. Deletion of data concerning reserved pieces of music and credit data

Operation

Press S4. When the autochanger receives the signal, a beeping sound occurs.

- a) Data to be deleted
 - Credit data for the commander executing the operation
 - Data concerning reserved pieces of music for the autochanger
- b) Data not to be deleted
 - Credit data for another commanders connected to the autochanger.

ADVERTISING PLAY

1 Advertising play switch

Leaving the ADV-PLAY switch to ON-position will select automatic advertising play of the discs in the advertising disc area when there is no selection of musics.

2 Stopping advertising play

Advertising play will be stopped when selection is mode during advertising play and the selected tune will be played.

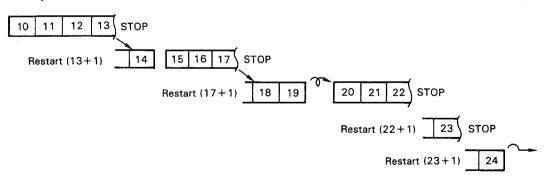
3 Playback order for advertising play

In the beginning, playback starts from the musics of advertising disc 1. If playback is stopped, playback resumes from the piece next to the last piece of the previous advertising play.

4 Disc presence learning function

When no disc is detected in any advertising disc tray, this disc tray is not accessed any more. This information on the disc presence is retained until the front door is opened.

Example:



FUNCTION FOR INDICATING THE SETTING STATUS

1. Initial-state screen

LASER JUKE

ID = 00000000000

CHANGER I/F CHECK

LASER JUKE

ID = 00429421151

COMMANDER I/F: FAIL

#1 : CONNECTED #2 : LINE SHORT #3 : CONNECTED Display timing when the power is turned on.

When the power is turned on, self diagnosis is carried out and its results are displayed one by one. The items to be diagnosed are as follows:

- 1. Checking the contents of the memory backed up
- Checking the communication system connected with the autochanger
- Checking the communication system connected with the commander (including the connected cables)

When an abnormality is found in the contents of the memory during the check specified in item 1 above, "MEMORY CLEAR" is displayed in the center of the screen to initialize the contents of the memory. If no abnormality is found, the data indicated at the upper left of this page is displayed.

(When no ID code is registered, a series of zeros is displayed as shown in the upper left-hand example.)

When no abnormality is found during the check specified in item 2 above, "CHANGER I/F: GOOD" is displayed, followed by "COMMANDER I/F CHECK". When "CHANGER I/F: FAIL" is displayed, the system cannot move on to the next step unless the cause of this failure is removed.

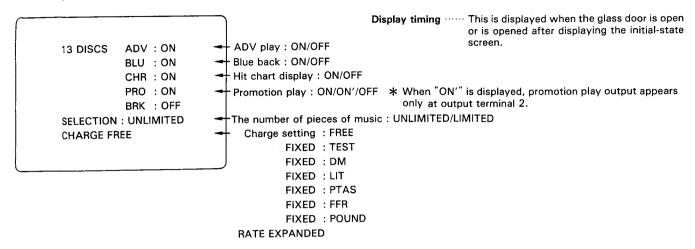
"CHANGER DOOR OPEN" is displayed while the glass door is open. At this time, the system moves on to checking the next "COMMANDER".

The screen as shown in the lower left corner of this page appears during the check specified in item 3 above. An abnormality of the second commander is detected and displayed.

(At this time, the first and third commanders operate normally. Therefore, only the second commander is unable to operate while the other commanders can operate.)

This initial-state screen remains in the BLUE BACK state regardless of the DIP switch setting.

2. Setup screen



13 DISCS ADV : ON
BLU : ON
CHR : ON
PRO : ON
BRK : OFF
SELECTION : UNLIMITED
CHARGE-RATE EXPANDED

+ blinks

When the setting is changed using dip switches, the corresponding item blinks.

EXPANDED CHARGE-RATE

P1-0 P6-0

P2-0 P7-0

P3-1 P8-0

P4-0 P9-0

P5-2 P0-4

C1-1 C2-2 C3-5 C4-10

When the charge setting is displayed as "EXPANDED" as shown in the middle left figure, press the START button to display the expanded rate setting chart for about 2 seconds as shown in the lower left figure.

- Also, when the glass door is closed, the data shown in the lower left figure is displayed (when the rate setting is EXPAND-ED).
- When a different value for expanded rate setting is entered via a commander, the screen as shown in the left-hand figure indicates the completion of reception.

FUNCTION FOR INDICATING THE SETTING STATUS

LIST OF INHIBIT-TUNES

#104 #109 #114 #119 #139 #159 #124 #129 #134 #144 #149 #154 #164 #169 #174 #179 #184 #189 #204 #209 #194 #214 #199 #219 #224 #229 #230 #231

This range covers 28 inhibited pieces of music.

- Display timing

 1. After the initial-state screen
 2. When the glass door is closed
- 3. After entering the number of inhibited pieces of music

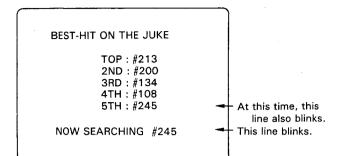
When the number of inhibited pieces of music exceeds 28, the screen scrolls up one by one line.

#164 #169 #174 #179 #184 #189 #194 #199 #194 #199 #204 #209 #214 #219 #224 #229 #230 #231 #232 #233 #234 #235 #236 #238 #239 #243 #237 #240 #241 #242 #244 #245 #248 #249 #246 #247

As shown in the lower figure, one screen can cover up to 36 pieces of music using a maximum of nine lines.

SCREEN DISPLAY BETWEEN PLACES OF MUSIC

1. Hit chart (best hit) screen



Display timing ····· during the stand-by for music selection and during the searching operation

In the left-hand example, #245 is being searched for and is among the best five pieces of music.

In the example shown in the lower figure, the hit chart is uncompleted and no music reservation is entered.

Note 1:

The hit chart is renewed on a basis of the number of times a piece of music is selected.

Note 2

Nothing is displayed until five or more pieces of music are selected (uncompleted).

Note 3:

The inhibited pieces of music are deleted starting from those included in the hit chart. Therefore, when #134 is searched for but not found in the example shown in the upper left figure, #134 is excluded from the hit chart. When the number of the pieces of music is below five, the entire hit chart disappears as shown in the lower figure.

BEST-HIT ON THE JUKE

SELECTION PLEASE !! This line blinks.

2. Promotion play guide screen

NOW, WE PRESENT YOU
A NICE MUSIC VIDEO
THE VIDEO IS #123

PLEASE ENJOY IT,
FOR A WHILE

Display timing before promotion play

THAT MUSIC VIDEO

These lines blink.

WAS #123

SELECT IT PLEASE,
IF YOU LIKE IT.

Display timing after promotion play

Note 1: These screens appear even when CHR: OFF.

MUSIC SELECTION

OPERATION

Ordinary Selection

- Enter the three-digit number by using numeric keys.
- The selection can be canceled by pressing the CLEAR key before entering the last digit.

One-Touch Selection

 Press the BEST HIT key to select the most-popular pieces of music on the location.

PLAYBACK ORDER

- Playback is mode by arranging the reserved selection in a certain order.
- Multiple selections are played only once. (over-play)

PRINTER OPERATION

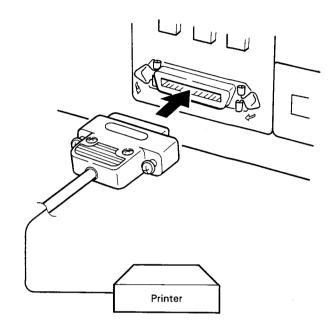
Printers available on the market can be used to output the following items:

Output (1)

- ① ID code
 ② Income counter
 ③ Total number of music selections
 ④ Count by discs (in numeric order)
 ⑤ Count by music pieces (in numeric order)

Output (2)

- **(6)** Total number of music selections.
- Count by discs (in order of popularity)
 Count by music pieces (in order of popularity)



START button

Outputs the memorized data in the following manner:

- Press START to output No. ① to ⑤.....Output (1)
- Press START again to output No. 6 to 8......Output (2)
- After the above, press START to repeat (1) and (2).

STOP button

Stops printout.

Example

Stops during the output of item (1) above \rightarrow Resumes from (2). Stops during the output of item (2) above \rightarrow Resumes from (1).

When the STOP button is pressed while the printer is stopped, the paper is fed.

MEMORY CLEAR button

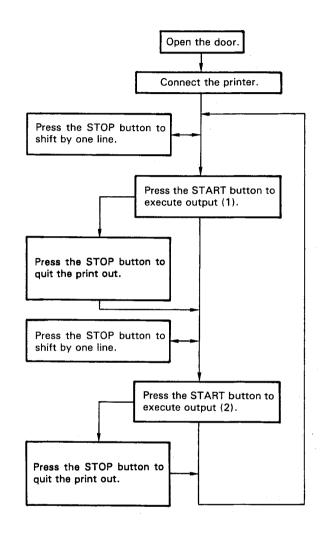
Deletes the data stored in the memory unit for the number of music selections.

Items deleted	Items not deleted
Number of times music is selected by discs	List of inhibited tunes
 Number of times music is selected by music pieces 	• ID codes
Total number of times music is selected Best-hit tunes Number of coins counted	Reserved tunes

 $\ensuremath{\bigstar}$ The contents of advertising disc learning is deleted when the door is opened.

Operation procedure

Data printout



Interface specifications

This printer incorporates a CENTRONIX-based 8-bit parallel interface. A 36-pin AMPHENOL type connector is used. Input and output signals used are as follows:

Input/output signal chart

	-		
Pin No.	Name of signal	I/O	Description
1	STROBE	OUT	Strobe pulses for data output
2 { 9	DATA 0	ОUТ	Data
10	ACK	IN	NOT USED
11	BUSY	IN	Signals to indicate that this system is busy during data processing
12~15	NC		No-connection
16~17	GND		
18	NC		No-connection
19~30	GND		Twist-pair-return signals
31~32	NC		No-connection
33	GND		
34~36	NC		No-connection

 $[\]boldsymbol{\divideontimes}$ Input and output are indicated viewed from this system.

Selection Count data.

When a music is selected by reffering the MENU and operation of the numeric keys, the selection count data of the piece and the total number of selection.

The number of times the BEST HIT key is counted as the total. The selection count data of the piece which is selected by pressing the BEST HIT key, is not incremented.

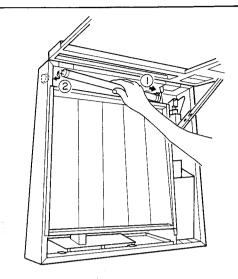
Printout sample

Output (1)	Output (2)
PIONEER LASER JUKEBOX	SELECTION COUNT TOTAL40
========= ID=66000000252	(MENU30) (BEST10)
INCOME80	INVALID13
SELECTION COUNT	======================================
TOTAL40	[ORDERED/DISC]
(MENU30)	(DISC(10]-(16])
(BEST10)	NO. COUNT DISC[11]7
INVALID13	DISC[15]7 DISC[12]5
=======================================	DISC[14]5
[ALL DATA/DISC]	DISC[13]3
NO. COUNT DISC(10]2	DISC[10]2
DISC[11]7	DISC[16]1
DISC[12]5	
DISC[13]3	[ORDERED/TUNE]
DISC[1415 DISC[15]7	(#100-#169)
DISC[16]1	NO. COUNT #1183
DISC[17]0	#1282
DISC[18]0 DISC[19]0	(#1342)
DISC[20]0	(#1422) (#1432)
DISC[21]0	(#1542)
DISC(22]0 DISC(23]0	(#1592)
DISC[24]0	(#1041) (#1091)
	(#1131)
[ALL DATA/TUNE]	(#1141)
NO. COUNT	(#1171) (#1191)
#1000 #1010	(#1231)
#1020	(#1241)
#1030	(#1291) (#1381)
#1041 #1050	(#1411)
#1060	(#1551)
#1070	(#1561)
#1080 #100	(#1571) (#1601)
#1091 #1100	OTHERS0
#1110	
#1120 #1131	
#1141	
#1150	
#1160 #1171	
#1183	
#1191	
#1200	

MAINTENANCE

1. CHANGING THE FLUORESCENT LAMP

- Turn off the power before changing the fluorescent lamp.
- Open the door and change the fluorescent lamp (15 W) on the menu board.



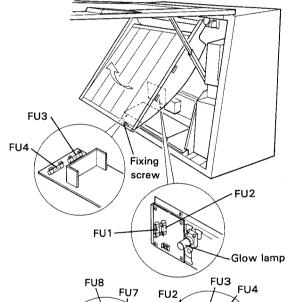
2. CHANGING THE GLOW LAMP AND FUSES

1 Selection commander

- Turn off the power before changing the fuses.
- · Open the door.
- Remove the fixing screws from the menu board and lift the menu board.
- Change the glow lamp and fuses.

FU1 (3.15A): main fuse

FU2 (0.63A): for fluorescent lamp FU3 (0.63A): for commanders FU4 (1.25A): for commanders



2 Video disc autochanger

 Remove the power cord from the wall outlet before changing the fuses.

 Remove the fixing screws from the panel on the disc storage and pull the panel towards you to change.

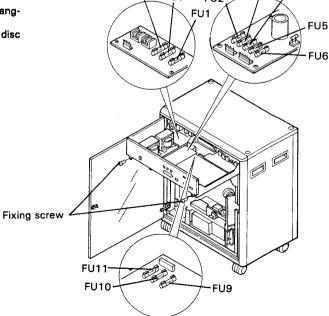
FU1 (3.15A): for AC OUTLET

FU2 (2.5A): for video disc autochangers FU3 (2.5A): for video disc autochangers FU4 (3.15A): for video disc autochangers FU5 (3.15A): for video disc autochangers FU6 (4A): for video disc autochangers

FU7 (1.25A): main fuse

FU8 (1.25A): main fuse for commanders # 2 and 3

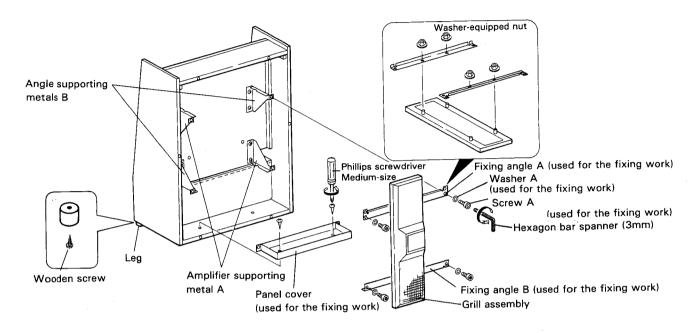
FU9 (4A): for commander #1 AC22V FU10 (4A): for commander #2 AC22V FU11 (4A): for commander #3 AC22V



CB-V2520-K/CB-V2520 (LASER JUKE SYSTEM RACK)

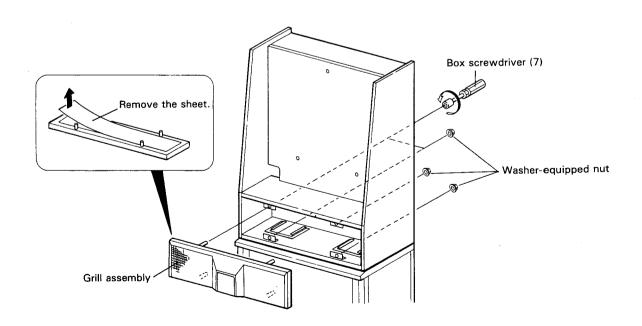
Things to be prepared:

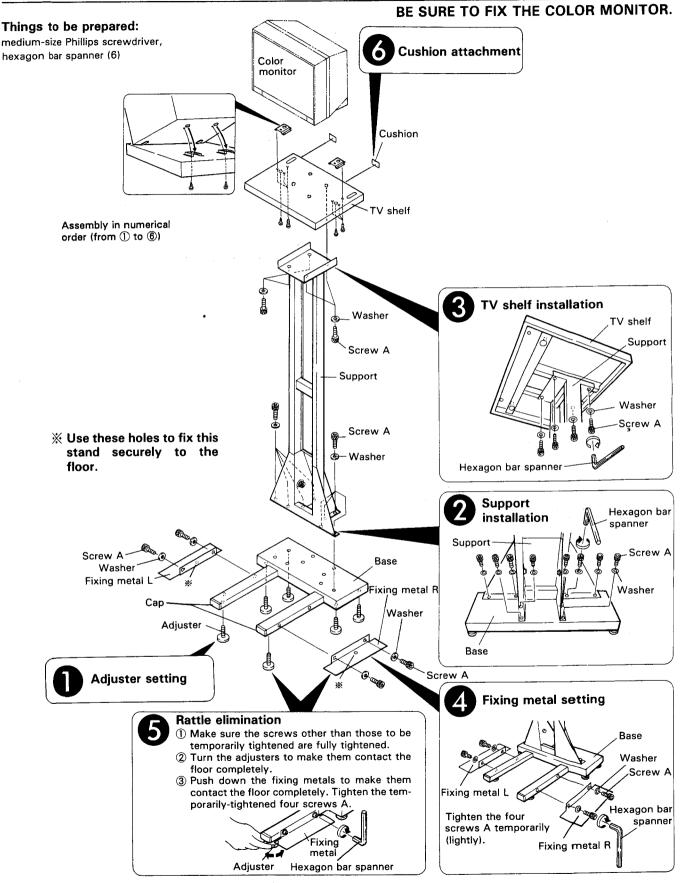
 First remove the panel cover, speaker grill and fixing angles A and B fixed to the rear of the system rack.



FIX THE GRILL ASSEMBLY.

 To fix the speaker system to this rack, remove the sheet from the back of the grill assembly as shown in the figure below. (When the speaker system is not to be set, keep the sheet attached.)

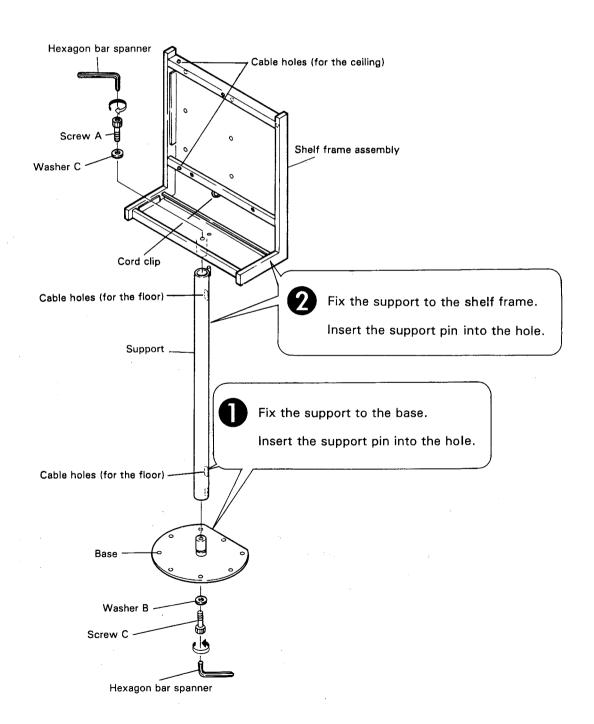




BE SURE TO FIX THIS STAND TO THE WALL AND FLOOR

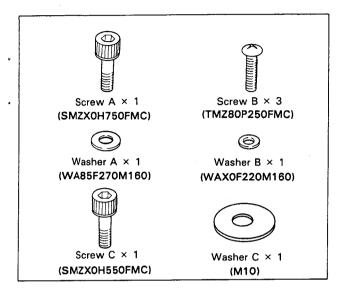
Things to be prepared:

large-size Phillips screwdriver, hexagon bar spanner (8)

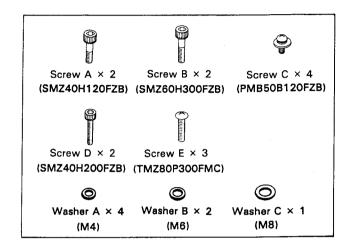


NAMES OF ASSEMBLY PARTS

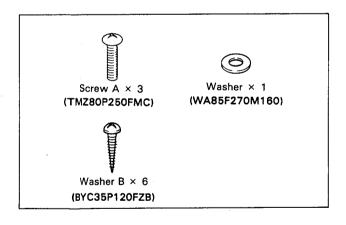
SELECTION COMMANDER STAND CB-V2540



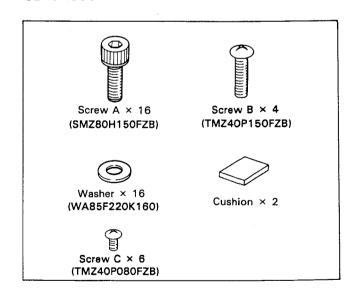
LASER JUKE SYSTEM RACK CB-V2520-K CB-V2520



SELECTION COMMANDER WALL MOUNT KIT CB-V2560



LASER JUKE MONITOR STAND



SPECIFICATIONS

LJ-V20-K/LJ-V20
(SELECTION COMMANDER)
Power requirements ····································
Power consumption
Weight 25 kg
Allowable operating temperature ························· +5°C to +35°C
Allowable operating humidity
Accesories
Rate seal
locking plate ····································
Coin sheet ···································
LC-V20-K/LC-V20
(VIDEO DISC AUTOCHANGER)
(VIDEO DISC AUTOCHANGEN)
Player model LaserVision video disc player Applicable discs Laser juke disc
Power requirements ······· AC 220V/240V (Switchable), 50 Hz
AC outlet SWITCHED ························· 2 (TOTAL 500 W MAX)
Power consumption246 W
Outside dimensions 642 (W) × 780 (H) × 425 (D) mm
Weight 64.5 kg Allowable operating temperature +5°C to 35°C
Allowable operating humidity 5% to 90%
Video output
Output level ········· 1 Vp-p (when a 75-ohm load is applied, synchronous and negative)
synchronous and negative) Output terminalpin jack
Sound output Output level ······· 650 mV (100% modulation, 50-ohm load)
Output terminal stereo pin jack
Headphone output
Output level ····· 650 mV (100% modulation, 32-ohm load)
Output terminal stereo mini-jack
Printer output
Discs 20
Noise reduction automatic switchover
CX on (not switchable) Advertising play ON/OFF
Programmed music selection Max 99
Best hit selection Max. 5 Selection count output Output to printer with
Centronics 8-bit parallel interface possible
Selection commander
Coin accepter MS-111 made by MARS (option) SENTINEL 30/35 made by COIN CONTROL LTD. (option)
Menu display······Max. 150
Coin capacity Over 2,500
(21.4mm diameter × 1.7mm thickness)
Accessories
Audio cord
Terminal cover
Cord element
Control cord 1 Operating instructions 1
Key ·······1

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CX	is a	trade	mark	of CB	S Inc.				
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CB-V2520-K/CB-V2520 (LASER JUKE SYSTEM RACK)

Outside dimensions: 643 (W) × 813 (H) × 375 (D) mm Veight 20 kg Material Particleboard
CB-V2530 LASER JUKE MONITOR STAND) Outside dimensions
CB-V2540 SELECTION COMMANDER STAND) Outside dimensions
CB-V2560 SELECTION COMMANDER WALL MOUNT (IT)
Outside dimensions 500 (W) × 478 (H) × 13 (D) mm Veight 1.2 kg Material steel