

# 6 Installation and assembling

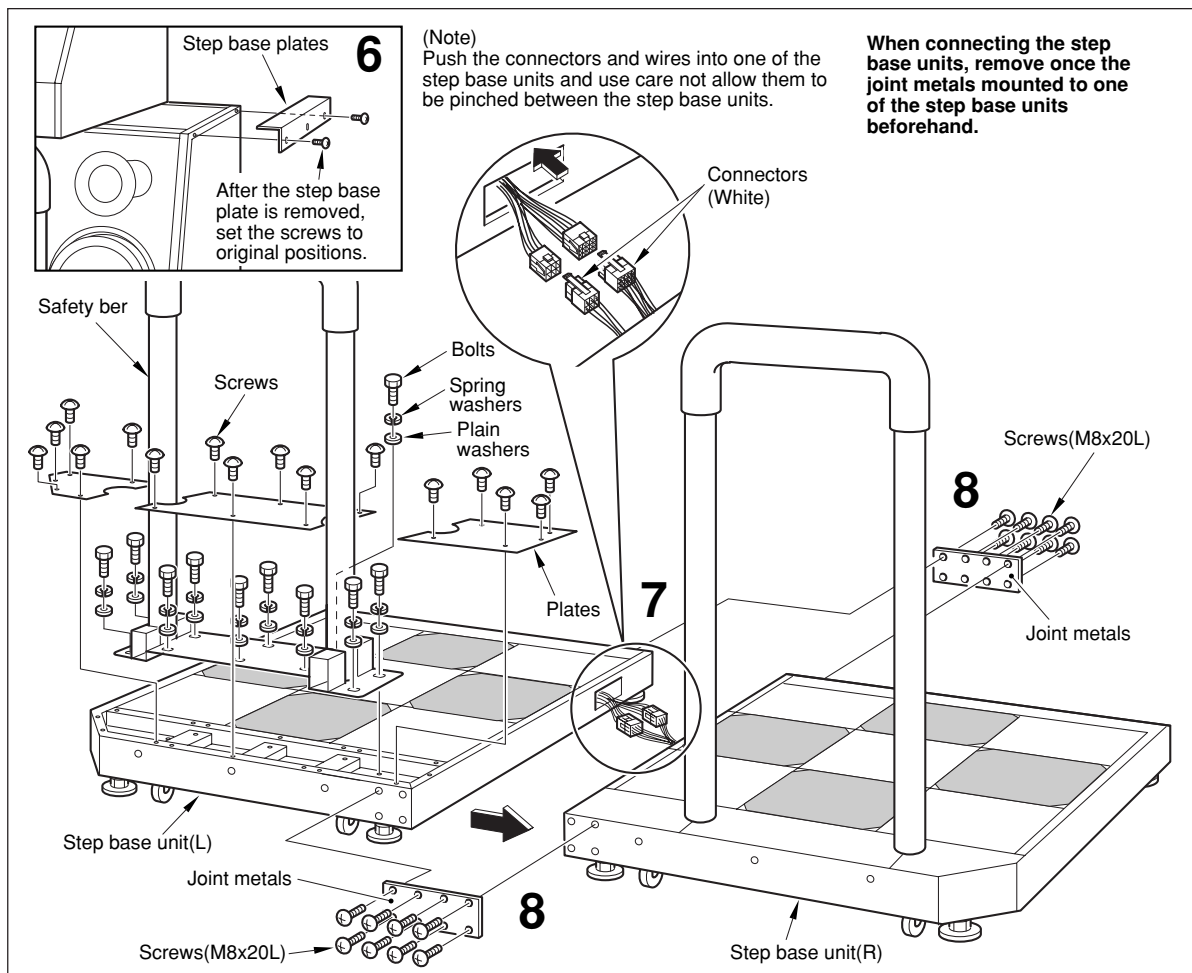
## 6-1 Connection of units

### ■ How to connect the step base units



- Do not apply a strong force for moving the step base units after connection.
- Never move the step base units across a step after connection.
- Pay full attention not to pinch wires in the connection of the step base units.

- 1 Remove plates shown in the figure from the step base units.
- 2 Remove safety bar fixing bolts from the step base units.
- 3 Use the bolts removed to fix the step base units.
- 4 Reinstall the plates removed in step 1 above.
- 5 Remove the joint metals mounted to the step base units.
- 6 Remove the step base plates mounted to the cabinet unit.
- 7 Connect the connectors which link the right and left step base units.
- 8 Connect the right and left step base units at two points with the joint metals removed in step 5 above.

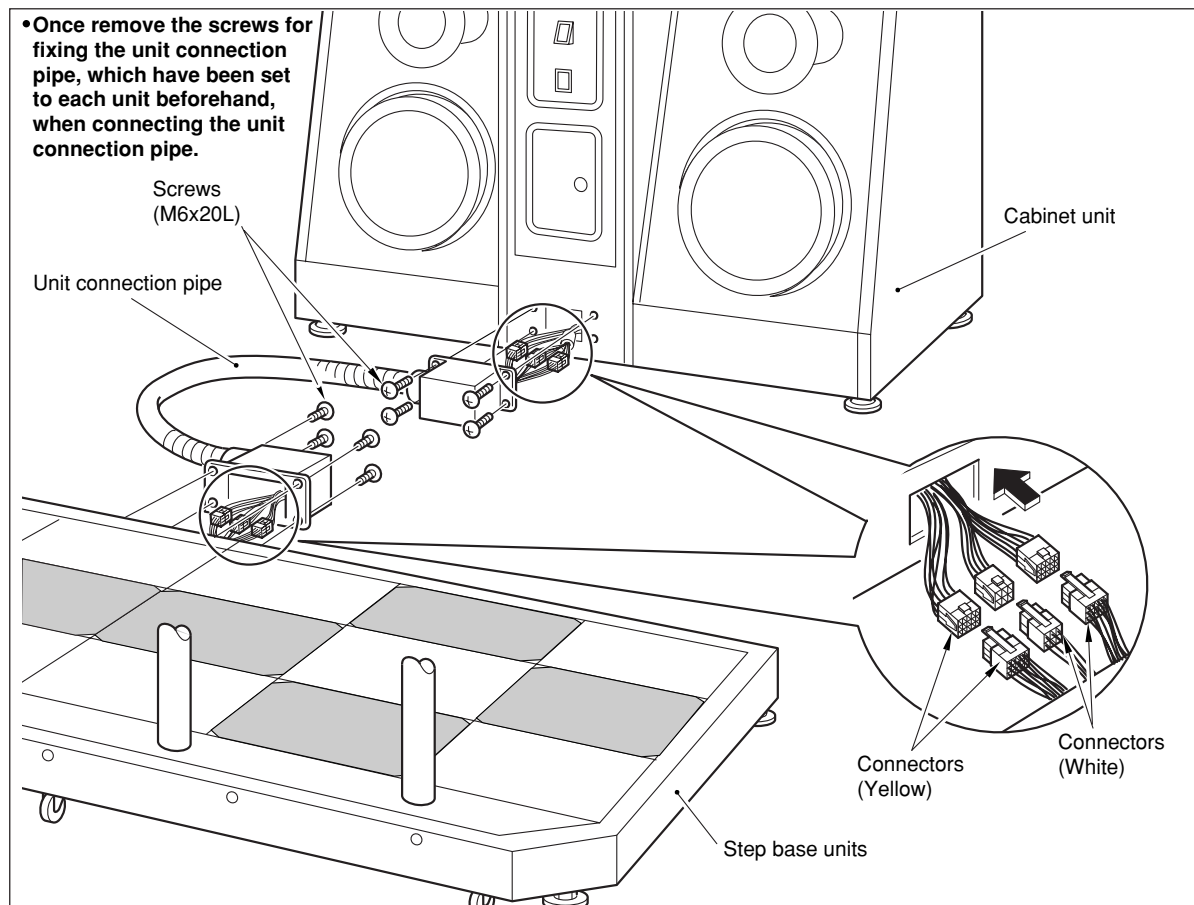


## ■ How to connect the step base units and cabinet units — — — — —



- Do not hold the unit connection pipe for moving the units.
- Do not apply a strong force for moving the units after connection.
- Do not move the units across a step after connection.
- Pay full attention not to pinch the wires when connecting the units.
- Provide a clearance of more than 200 mm(8 in) and less than 400 mm(16 in) between the step base units and the cabinet units.

- 1** Remove the screws fixing the unit connection pipe mounted to the step base unit and the cabinet unit.
- 2** Connect the connectors extended from the step base units to the connectors of unit connection pipe, paying attention not to confuse their colors.
- 3** Fix the unit connection pipe to the step base units with use of the screws which have been removed in step 1 above.
- 4** Connect the connectors extended from the cabinet unit to the connectors of unit connecting pipe.
- 5** Fix the unit connection pipe to the cabinet unit with the screws which have been removed in step 1 above.



■ How to mount the title unit

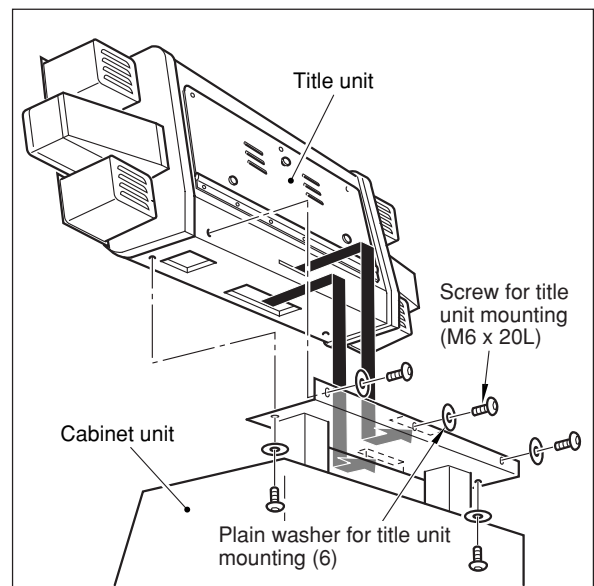


- Before mounting the title unit, be sure to fix the units by adjusters. (See the description of 6-2 Fastening the adjusters.)
- The title unit weighs 28 kg approx. Be sure to carry out the mounting work by three persons or more, using a stepladder for safety sake.
- Pay full attention not to allow your hand or wires to be pinched while mounting the title unit.

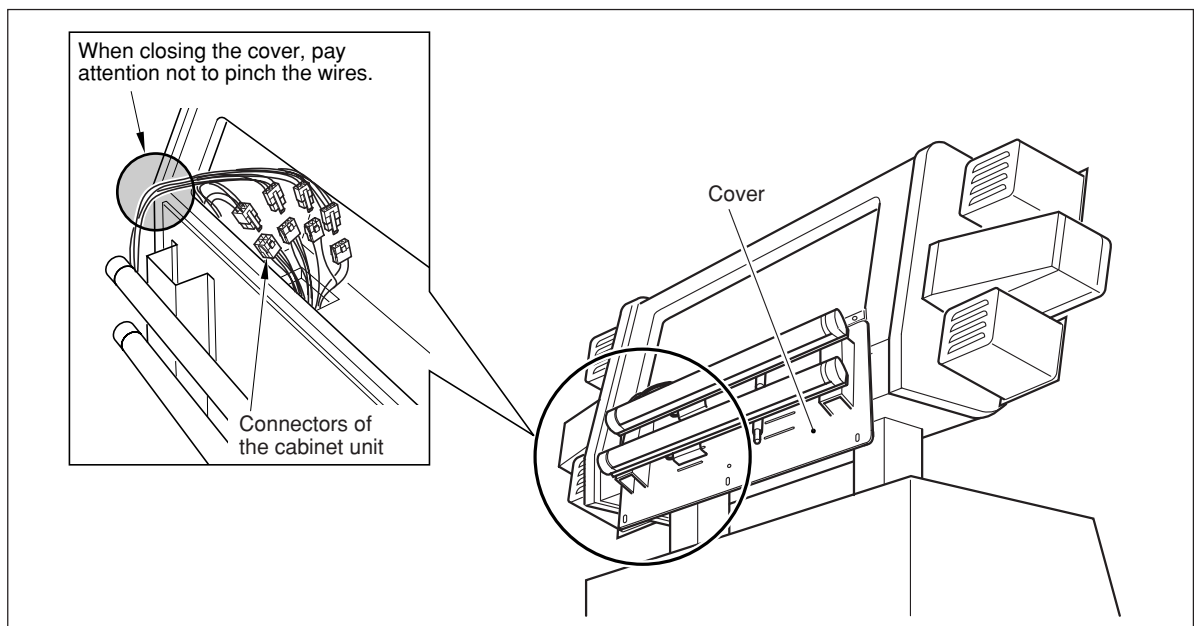
- 1 Fix each of the units with adjusters by referring to the description of “6-2. Fastening the adjusters”.
- 2 Place the title unit on the cabinet unit and fix it by tightening the plain washers and screws for title unit mounting by means of the accompanying hexagon wrench.

- Do not hold the units by speakers and spotlights.
- Pay attention not to pinch the wires.

**MEMO**



- 3 Open the title unit cover, pull out the connector from the bottom opening of the cabinet unit and connect them.



■ How to mount the step base plates

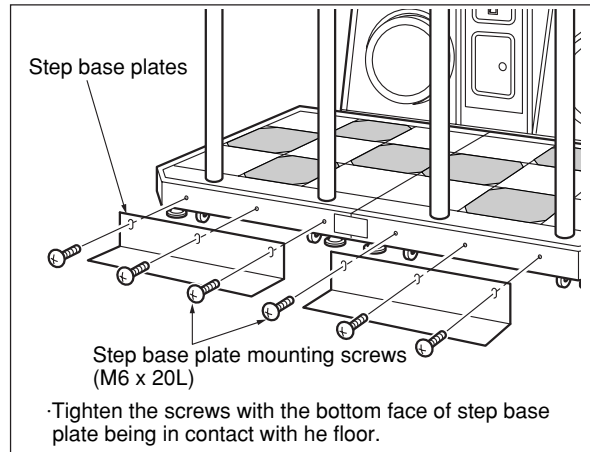


- Be sure to mount the step base plates which effectively prevent the step base units from lifting.
- Mount the step base plate after the fixation of adjusters of each unit.

Mount the step base plates, which have been removed in step 2 on page 32, with the accompanying screws.

- Mount the step base plate after the completion of the fixation described in “6-2 Fastening the adjusters”.
- Be sure to remove the step base plates when moving the units.

**MEMO**

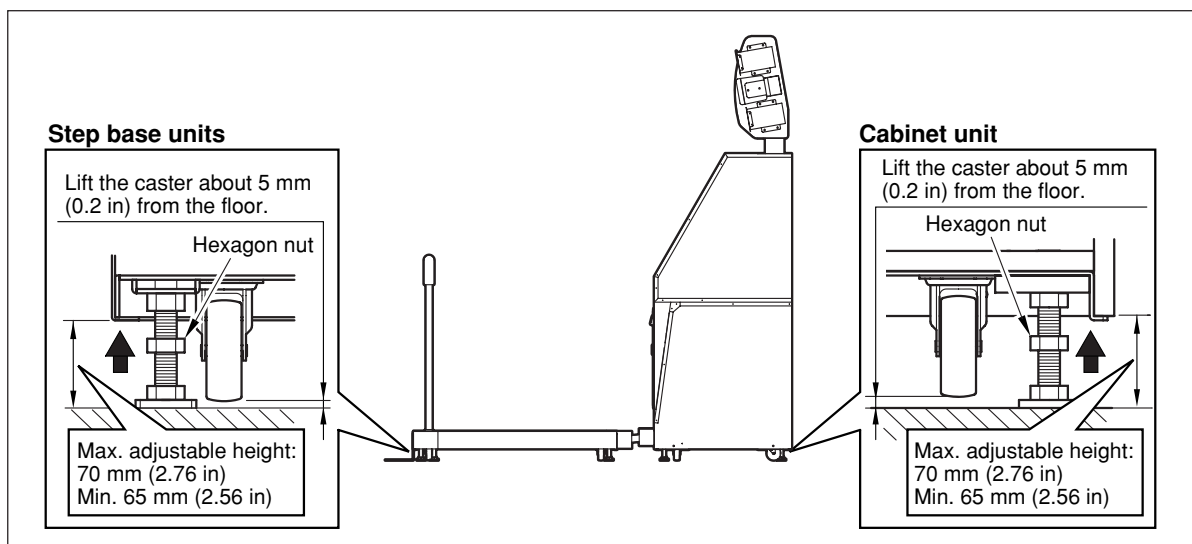


## 6-2 Fastening the adjusters

■ How to fasten the adjusters



- After the connection of the units, make all the adjusters contact the floor.
- Adjust the adjusters so that the casters do not touch the floor. Take care not to exceed the maximum adjusting height of the adjuster.
- Make all the 12 adjusters come in contact with the floor, tighten them with hexagon nuts after making sure that all the units are placed stably in a horizontal position.



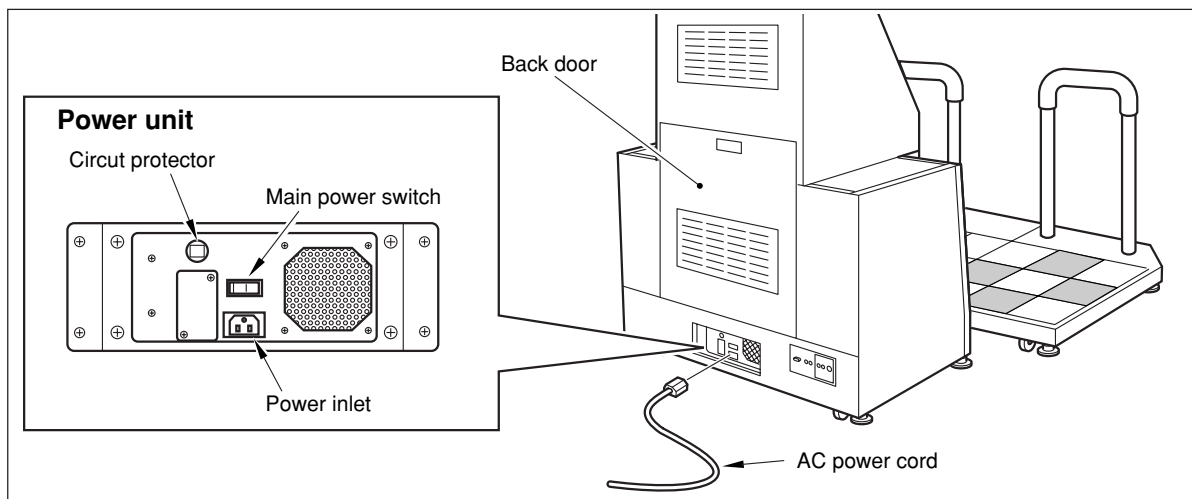
## 6-3 Power unit

### Power unit

The power supply unit is provided at the rear side of the cabinet unit.



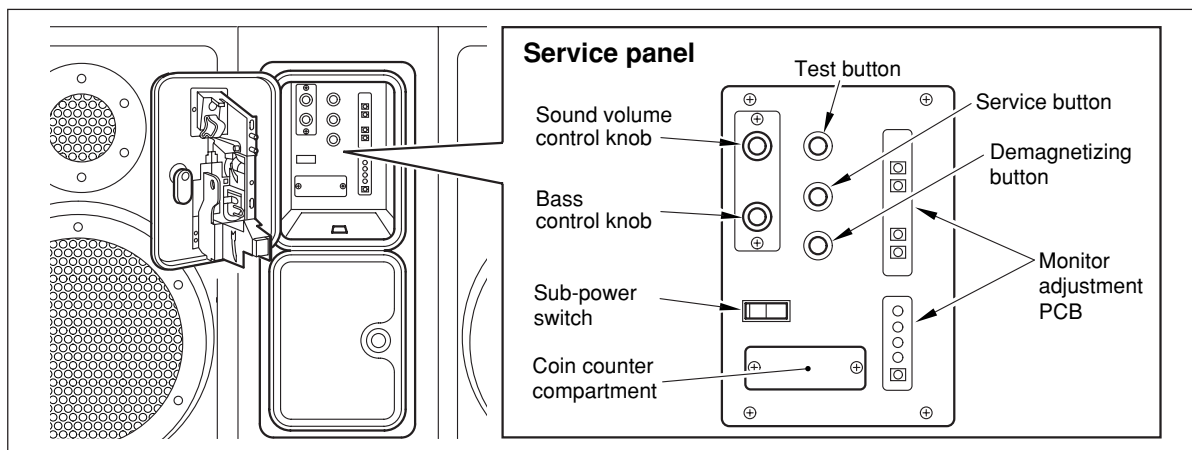
- Be sure to use the attached AC power cord.
- Be sure to ground to the machine. Never connect the grounding wire to gas pipe, water pipe or telephone ground terminal.
- If the sub power switch of the service panel is turned OFF without turning OFF the main power switch of the power supply unit, some parts in the units remain live. When opening the back door, be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- There is high voltage inside the machine. Only the qualified industry specialist is allowed to open the machine's back door. With the back door open, be very careful not to touch the monitor and its nearby parts.



## 6-4 Service panel

### Service panel

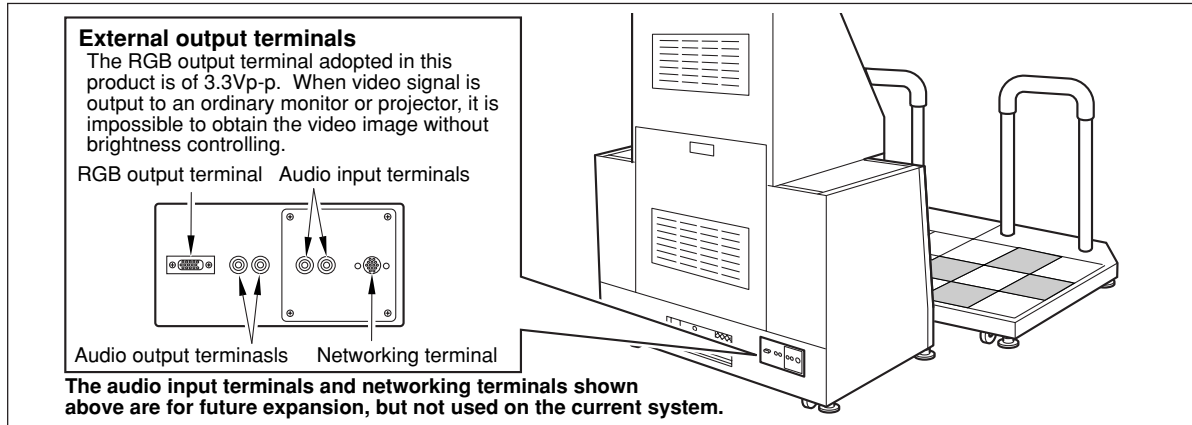
Using the accompanying maintenance key, open and detach the maintenance door to access the service panel inside.



## 6-5 External output terminals

### External output terminals

For video output and audio output from this product, the external output terminals are provided at the rear side of cabinet.

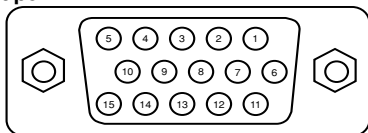


### Specification of RGB output terminal

When outputting the video image to an external projector etc. through this RGB output terminal, be sure to check the external equipment to be connected to this terminal to see if its specification is compatible with the specification of the terminal. The RGB output terminal outputs the RGB signal of 3.3Vp-p video signal amplitude for a video game monitor CRT of composite SYNC specification. Accordingly, if this signal is input by a monitor CRT for personal computer etc. of 0.7Vp-p amplitude, horizontal/vertical separation SYNC input specification, such monitor CRT will not work normally or cause a trouble with the equipment.

Please refer to the tables below as for the specifications of the RGB terminal.

#### Shape



15-pin Mini Dsub  
(conforming to MIL-C-24308 Standard) (Female)

#### Video signal output specification

Horizontal sync.frequency	15.8kHz
RGB video signal level	3.3Vp-p
RGB video signal terminal	High impedance
Sync. signal level	TTL level
Sync. signal system	Composite

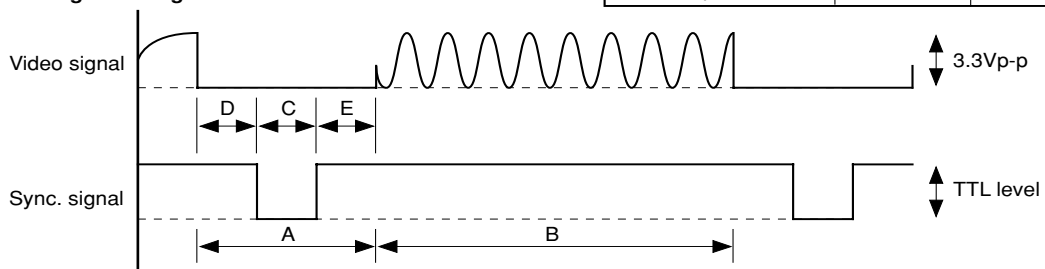
#### Arrangement

1	RED	6	GND	11	
2	GREEN	7	GND	12	
3	BLUE	8	GND	13	C-SYNC
4		9		14	
5		10	GND	15	

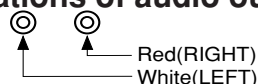
#### Video signal timing

	Horizontal sync.	Vertical sync.
Sync. frequency	15.8kHz	59.8Hz
A = Non-display section	16 $\mu$ s	38 lines
B = Display section	47.8 $\mu$ s	224 lines
C = Sync. signal amplitude	3.81 $\mu$ s	2 lines
D = Front porch	3.69 $\mu$ s	12 lines
E = Back porch	8.5 $\mu$ s	24 lines

#### Video signal timing chart



### The specifications of audio output terminal



Audio output level	0 $\pm$ 6dB
Output impedance	2k $\Omega$

## 6-6 Splitting into and moving of units

### ■ How to split into units

This product can be split into individual units.



- Before splitting the product, be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- When moving this product, be sure to split it into the step base units, cabinet unit and unit connection pipe and remove connectors.
- If it is necessary to separate the title unit from the cabinet unit, split them before loosening the adjusters.
- Fully lift up the 12 adjusters before moving the product. Use casters to move it.
- When connecting the split units again, pay due attention not to pinch your hand and wires.

- 1** Turn OFF the main power switch and unplug the AC power cord from the receptacle.
- 2** Split the step base units from the cabinet units in the reverse of connection.
- 3** Remove the step base plates mounted to the step base units.
- 4** Loosen the 12 adjusters and move the units on casters. It is necessary to dismount the title unit, dismount it before loosening the adjusters.

