

15. MONITOR

15 — 1 CAUTIONS AND WARNINGS CONCERNING THE SAFETY FOR HANDLING THE MONITORS

Before handling the monitors, be sure to read the following explanations and comply with the caution/warning instructions given below. Note that the caution/warning symbol marks and letters are used in the instructions.



WARNING

Indicates that handling the monitors erroneously by disregarding this warning may cause a potentially hazardous situation, which could result in death or serious injury.



CAUTION

Indicates that handling the monitors by disregarding this caution may cause a potentially hazardous situation, which could result in personal injury and or material damage.



Indicates that access to a specific part of the equipment is forbidden.



Indicates the instruction to disconnect a power connector or to unplug.



WARNING

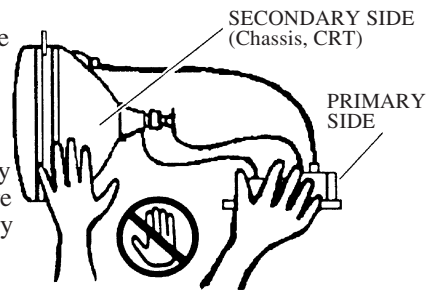
- When performing such work as installing and removing the monitor, inserting and disconnecting the external connectors to and from monitor interior and the monitor, be sure to disconnect the power connector (plug) before starting the work. Proceeding the work without following this instruction can cause electric shock or malfunctioning.
- Using the monitor by converting it without obtaining a prior permission is not allowed. SEGA shall not be liable for any malfunctioning and accident caused by said conversion.



WARNING

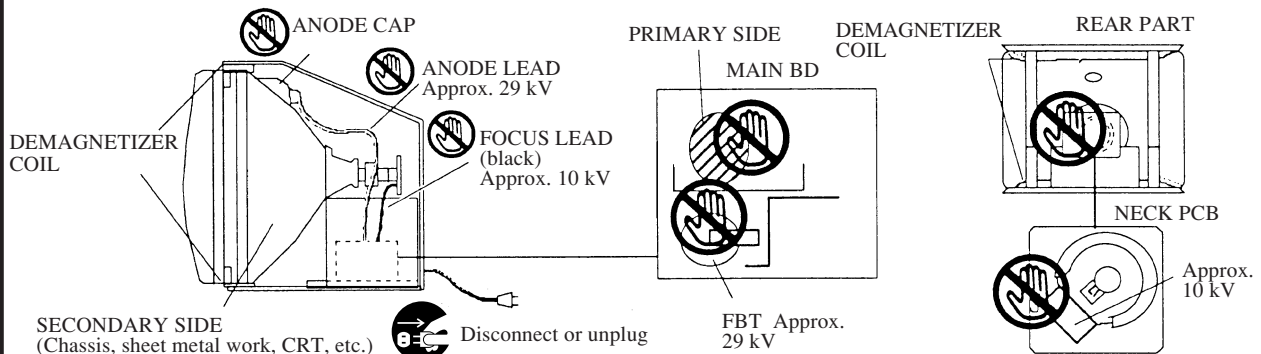
● Primary side and Secondary side

The monitor's circuit which is divided into the Primary side and Secondary side, is electrically isolated. Do not touch the primary side, or do not touch both the primary side and the secondary side simultaneously. Failing to observe the instruction can cause electric shock and this is very dangerous. When making monitor adjustments, use a non-conductive driver and make adjustment without touching any part other than the Adjustment V. R. and knob. Also, be sure not to cause a short-circuit to the Primary side and Secondary side. If short-circuited, it can cause electric shock or malfunctioning, which is very dangerous.



● High-tension Voltage

Some of the parts inside monitor are subject to high-tension voltage in excess of 20,000 volts and very dangerous. Therefore, do not touch the monitor interior. Should soldering & paper wastes, etc. be mixed in the monitor interior, turn the power off so as not to cause malfunctioning or fire hazard.



● Connecting the CRT and PCB

For combining the CRT and PCB, use the specified part No. to maintain the status of adjustments made at the factory. The anode of the CRT itself will be accumulatively charged as time elapses, generating high-tension voltage which is very dangerous. The monitor should be used with the Chassis, CRT and PCB assembled. When repair, etc. is required at the time of malfunctioning, be sure to send it in an "as is assembled" condition. If these are disassembled, what's charged to said high tension voltage can be discharged, causing a very hazardous situation. Therefore, under no circumstances should it be disassembled.



CAUTION

● Static Electricity

Touching the CRT surface sometimes causes you to slightly feel electricity. This is because the CRT surfaces are subject to static and will not adversely affect the human body.

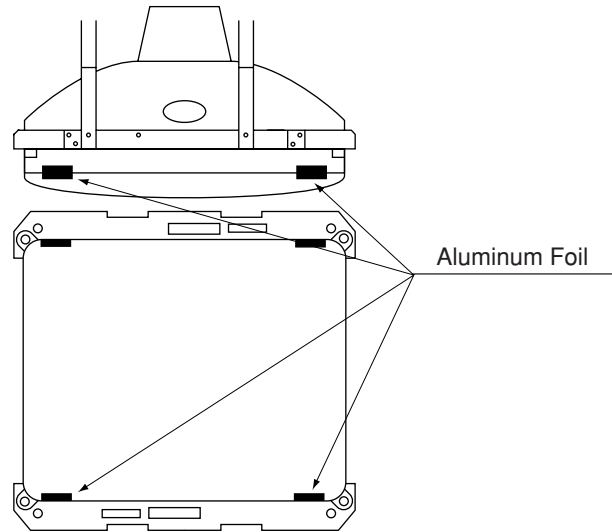
● Installation and removal

Ensure that the Magnetizer Coil, FBT (Fly-Back Transformer), Anode Lead and Focus Lead are not positioned close to the sheet metal work's sharp edges, etc. and avoid damaging the insulated portions so as not to cause electric shock and malfunctioning. (For the name of parts, refer to the above Figures).



For the purpose of static prevention, special coating is applied to the CRT face of this product. To protect the coating, pay attention to the following points. Damaging the coating film can cause electric shock to the customers.

- Do not apply or rub with a hard item (a rod with pointed edge, pen, etc.) to or on the CRT surfaces.
- Avoid applying stickers, seals, etc. on the CRT face.
- Do not remove aluminum foils from the CRT corners. Removing the aluminum foils can cause static prevention effects to be lowered.



15 — 2 CLEANING THE CRT SURFACES



Static preventive coating is applied to the CRT surfaces. When cleaning, pay attention to the following points. Peeling off of static preventive coat can cause electric shock.

- Remove smears by using a dry, soft cloth (flannels, etc.). Do not use a coarse gauze, etc.
- For smear removing solvent, alcohol (ethanol) is recommended. When using chemical detergent, be sure to follow instructions below:
 - Dilute chemical detergent with water and dip a soft cloth in and then thoroughly wring it to wipe smears off.
 - Do not use a chemical detergent containing an abradant, powder or bleaching agent.
 - Do not use alkaline chemical detergents such as "glass cleaner" available on the market or solvents such as thinner, etc.
- Do not rub or scratch the CRT face with hard items such as brushes, scrub brush, etc.

Clean the CRT surfaces once a week. When cleaning, pay attention to the above caution so that the antistatic coating will not come off.



- Monitor adjustments have been made at the time of shipment. Therefore, do not make further adjustment without a justifiable reason. Adjusting the monitor which contains high tension parts is a dangerous work. Also, an erroneous adjustment can cause deviated synchronization and image fault, resulting in malfunctioning.
- Be sure to perform appropriate adjustment of the monitor (projector). For operation of this machine, do not leave monitor's flickering or deviation as is. Failure to observe this can cause to worsen the players' or the customers' physical conditions.
- Do not touch undesignated places. Touching places not designated can cause electric shock or short circuit.



Be sure to provide support for secured parts when removing the screws that secure them. Unsecured parts will fall then their screws are removed, possibly causing injury.

The monitor adjustment panel is located on the floor of the monitor box, on the right side when facing the screen. There is a settings board on the inside of this panel. The settings board is connected to the monitor by wires.

Remove the 2 screws holding the monitor settings panel in place and then remove the panel, pulling the wires along with it.

Settings can be changed by adjusting the switches while watching the screen.

SCREW (2), black

M4×16, w/flat & spring washers

MONITOR SETTINGS PANEL

SETTINGS BOARD

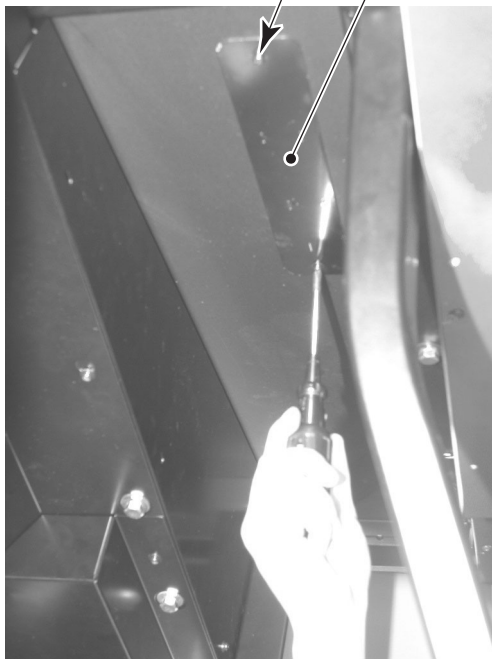
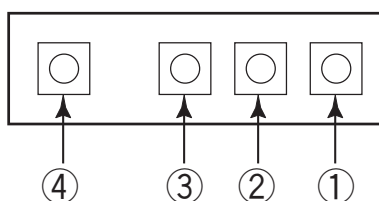


PHOTO 15.3 a



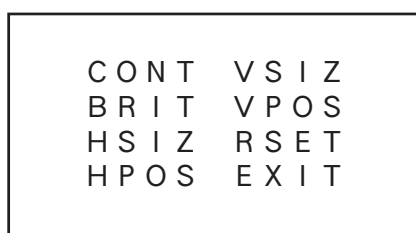
PHOTO 15.3 b

The monitor type of this product is "200-5955." Read the following thoroughly to adjust the monitor.



- ① F U N C (S A 0 4)
- ② U P (S A 0 3)
- ③ D O W N (S A 0 1)
- ④ D E G A U S S (S A 0 5)

There are four buttons to operate the adjustment. Pressing FUNC button displays the following menu screen. The item chosen is red, and the others are green. When there is no input of the button for 6 seconds, the menu display disappears.



- C O N T : adjusts image contrast.
With the UP button, it becomes deep and becomes light with the DOWN button.
- B R I T : adjusts the on-screen image brightness.
With the UP button, it becomes bright and becomes dark with the DOWN button.
- H S I Z : adjusts the horizontal image size.
With the UP button, it becomes large and becomes small with the DOWN button.
- H P O S : adjusts the horizontal image's position.
With the UP button, it moves to the left and moves to the right with the DOWN button.
- V S I Z : adjusts the vertical image size.
With the UP button, it becomes large and becomes small with the DOWN button.
- V P O S : adjusts the vertical image's position.
With the UP button, it moves upwards and moves downwards with the DOWN button.
- E X I T : ends the adjusting mode and exits the menu.

- Each time the FUNC button is pressed, the selection item (red display) moves in following order.

"C O N T → B R I T → H S I Z → H P O S → V S I Z → V P O S → R S E T → E X I T → C O N T →"

- Select the item (red display) and press the UP or the DOWN button once, the following display will appear.



Contrast Adjusting Screen
The "nnn" is a present value of the adjustment value.

Pressing the UP/DOWN button again causes the adjusting works to be done.
When there is no input of the UP/DOWN button for 6 seconds or the FUNC button is pressed, the adjustment value is memorized.

- If EXIT is selected (red display) and the UP/DOWN button is pressed, the adjustment mode will be canceled and the menu display will disappear.
- Selecting RSET and pressing the UP and the DOWN buttons simultaneously causes "RSET" to be displayed for 3 seconds and reset the on-screen setting status to the factory setting. Note that the factory setting status is predetermined and not changeable.
- When pressing the DEGAUSS button, degaussing is performed for 5 seconds and displays "DEGAUSS". Once degaussed, it takes 5 minutes or longer to have degaussing function again. If it is pressed before taking 5 minutes, the following screen will be appeared and display the remaining seconds.

