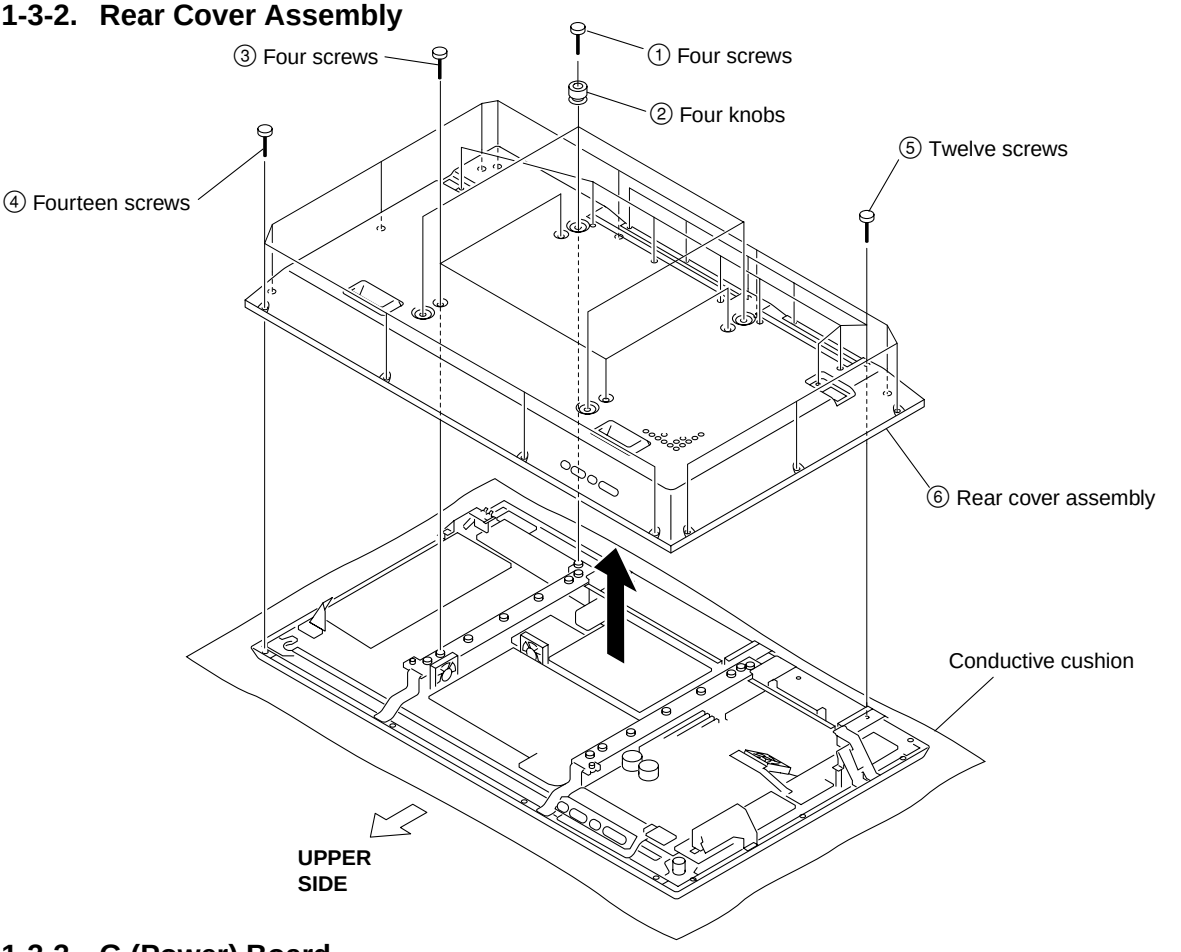
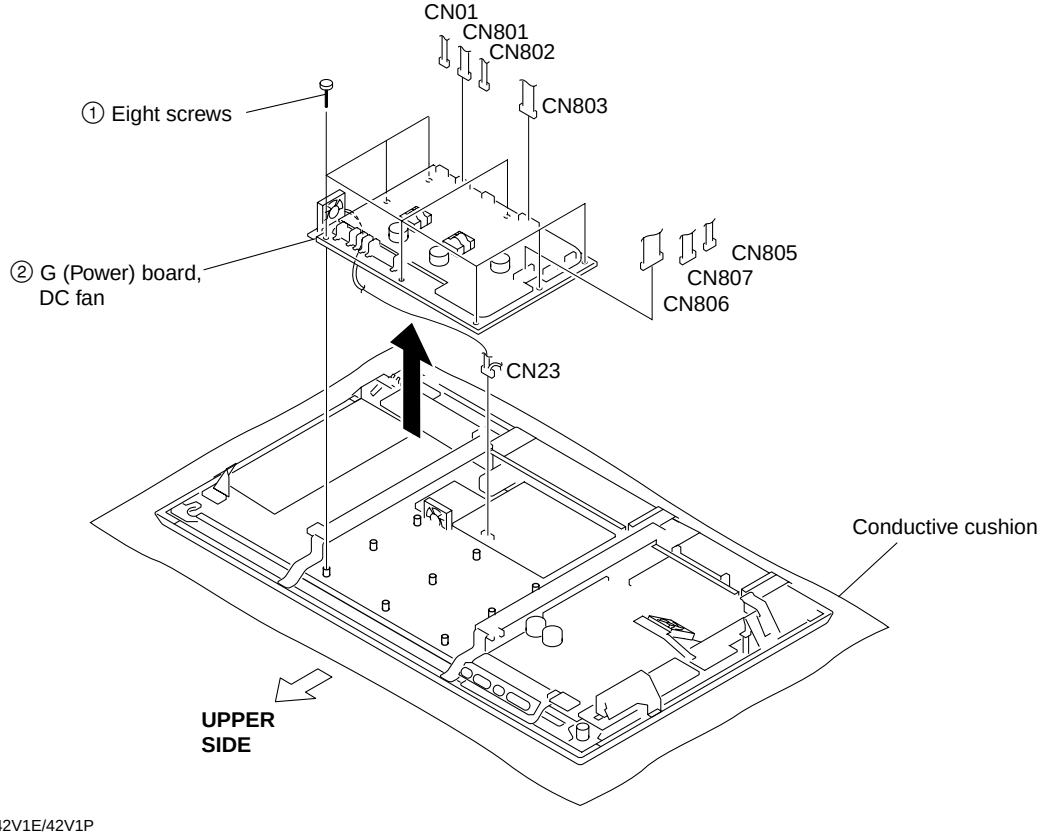
1-3-2. Rear Cover Assembly



1-3-3. G (Power) Board

• Remove the rear cover assembly. (Refer to 1-3-2.)

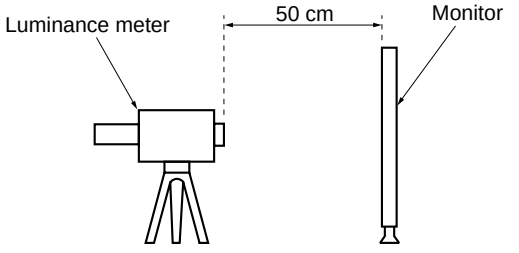


Section 2
Electrical Adjustment

2-1. Set Up Adjustment

- Required equipment
  Remote commander (RM-971)
  Digital voltmeter
  Luminance meter : Minolta LCD Color Analyzer CA-110 or equivalent
  If Minolta LCD Color Analyzer CA-110 or equivalent is not available, make adjustment by comparing the LCD monitor with the reference CRT monitor that has already been calibrated correctly.
  Signal generator : VG-854 or equivalent

- Preparation of luminance meter
  Place the light receptor block of the luminance meter about 50 cm away from the monitor screen as shown.



1. How to enter the service mode.

1. Turn on the power.
2. Enter → 1 → 8 → 2 of the remote controller in order and activate SERVICE MODE OSD.
3. After select INITIALIZATION menu and Execute FILL 0xFF.
   (If completed, Activate ON automatically after POWER OFF.)

Note

W/B readjustment is required after the panel, board and microcomputer are replaced. However, be sure to perform aging for more than 30 minutes for RGB reset before W/B adjustment.

2. Setup

1) Prepare timing and pattern data for a signal generator according to the Sony timing specifications.
2) Connect a monitor video cable to the signal generator.
3) Put Color Analyzer (ex. CA-110) 50cm away from the monitor, specify it vertically in the center of the display, and adjust the focus to the optimum level using an eyepiece.
4) Put the monitor and Color Analyzer (ex. CA-110) in a light-shielded room.
5) Set up [SERVICE MODE] of the monitor.

3. Operation

Data is manually set to improve the productivity. The brightness, contrast, and backlight are set to 50, 70 and 100 respectively. After that, the default data of the color temperature to be adjusted is set.

4. Warm up time

Warm up for 30 minutes before performing any adjustment.

2-2. Adjustment for White Balance

2-2-1. AD Calibration

Execute Auto Calibration in PC (848 × 480 60 Hz), DTV 1080i and DTV 480p signal.

1. PC Signal

1) Activate SERVICE MODE OSD and Select AD CALIBRATION menu.
2) Input Full Black (No Video) Pattern.
3) Execute PC. CUTOFF.
4) Input Full White Pattern.
5) Execute PC.GAIN.

2. DTV (1080i/ 480p) Signal

Execute the following program sequence in order from 1080i to 480p signal.

1) Activate SERVICE MODE OSD and Select AD CALIBRATION menu.
2) Input Full Black (No Video) Pattern.
   * If the signal is 480p, Change Color Matrix into Y/Pb/Pr from Y/Cb/Cr.
3) Execute DTV CUTOFF.
4) Input Full White Pattern.
5) Execute DTV GAIN.

(4) Adjusting the final voltage wave form
Check the voltage wave form like the mentioned way on the item “3. How to Adjust” of Section 2-3-4 and readjust the wave form when it is twisted.

(5) DC-DC Pack Voltage Set up Range
Vsetup : 210 V ~ 240 V
Vsc : 90 V ~ 120 V
−Vy : −60 V ~ −80 V
−Ve : −35 V ~ −45 V

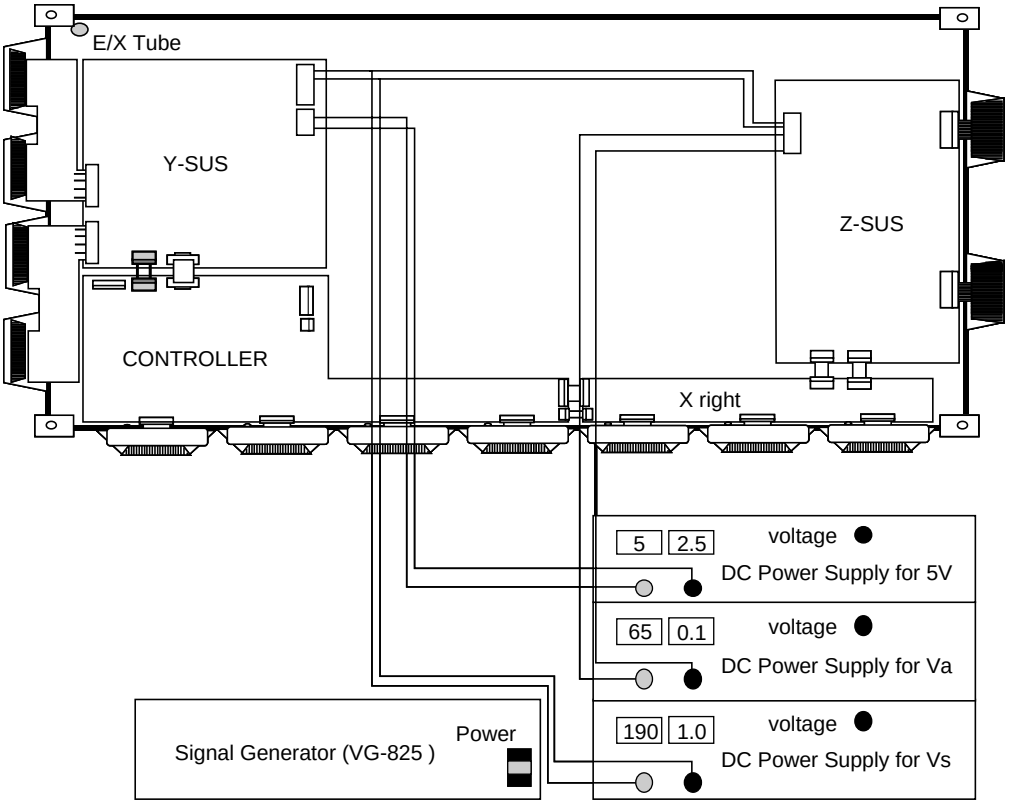


Fig. 1 Connection diagram of measuring instrument

CAUTION

(1) The power of the signal generator should be turned on before turning on the power of DC power supply.
(2) The voltage of DC power supply , in standard of Module input voltage, should be preset as below.
Vcc : 5 V, Va : 65 V, Vs : 190 V
(3) The power of power supply must turned on by this sequence. Reverse direction when turning off.
∗ Module on : 5 V → Va → Vs, Module off : Vs → Va → 5 V
(4) Signal generator should be selected with 852 × 480 mode (WVGA)