

3 Alignments and Adjustments

This section of the service manual explains how to use the RS232 JIG.
This function is needed for AD board change and program memory (IC200) change.

3-1 Required Equipment

The following equipment is necessary for adjusting the monitor:

- Computer with Windows 95, Windows 98, Windows NT, Windows 2000, or Windows XP.
- MTI-2050/MTI-2055 DDC MANAGER JIG

3-2 Automatic Color Adjustment

To input video, use 16 gray or any pattern using black and white.

1. Press and hold down both the MENU and the ▲ keys at the same time for about 5 seconds.
2. A blinking display informs you that the automatic color adjustment process is completed.
3. The automatic color adjustment feature is also available in the service function.

3-3 DDC EDID Data Input

1. Input DDC EDID data when replacing AD PCB.
2. Receive/Download the proper DDC file for the model from HQ quality control department.
Install the below jig (Figure 1) and enter the data.

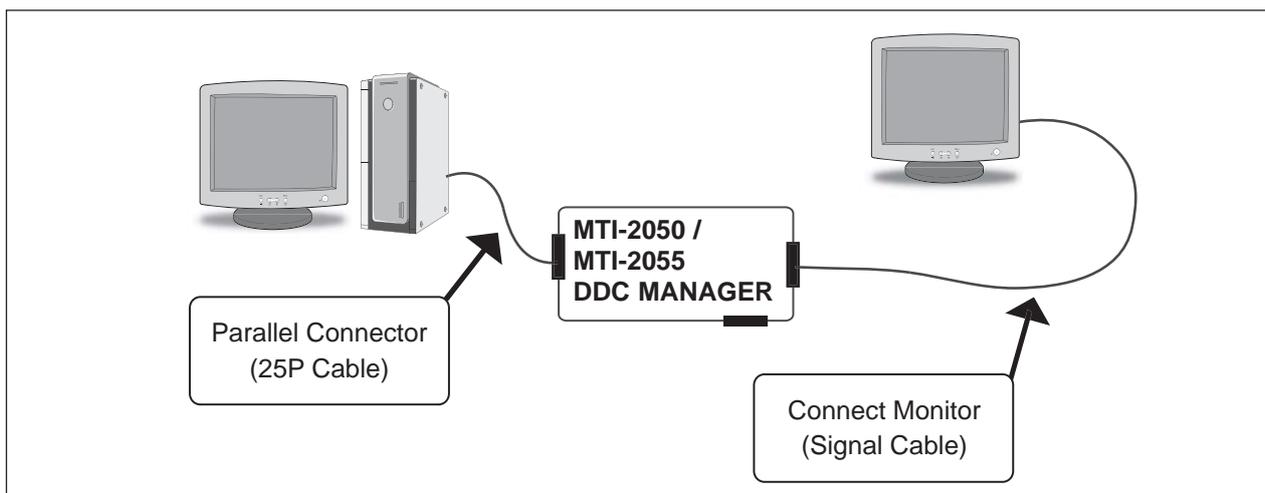


Figure 1.

3-4 OSD Adjustment When Replacing Panel

1. Set the Brightness and Contrast to zero,
and push the MENU button more than 5 seconds.
The Function OSD is displayed like Figure 2.

2. Select the Panel Information.
3. Select a panel that you want to replace with.

3-5 OSD Adjustment When Replacing Lamp Only

1. Set the Brightness and Contrast to zero,
and push the MENU button more than 5 seconds.
The Function OSD is displayed like Figure 2.

2. Select the Panel Information.
3. Select the upper lamp/ lower lamp.

–. Note : Please perform Automatic Color Adjustment when replacing the panel and main board.

3-6 Service Function Spec.

3-6-1 How to Display Service Function OSD

1. The OSD is displayed just like in 3-2.
2. To exit the service function, press the POWER key and restart the Monitor.



Figure 2. The example of service function OSD

3-6-2 How to Control Service Function OSD

Use the ▲ or ▼ buttons to select an item that you want and press the Enter button.

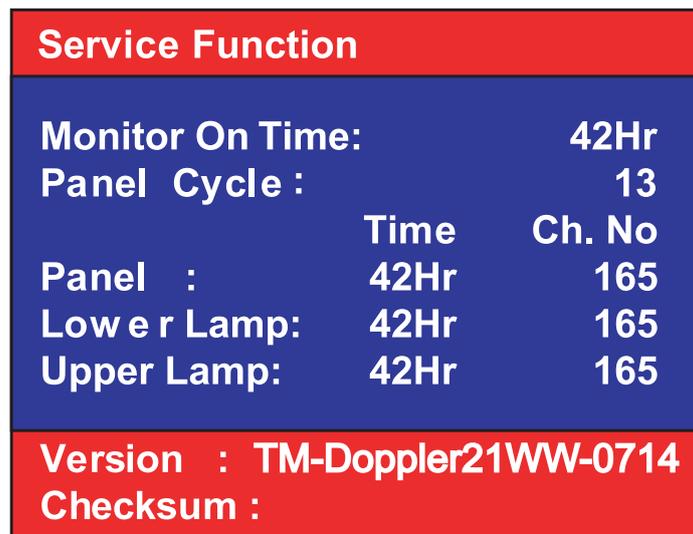
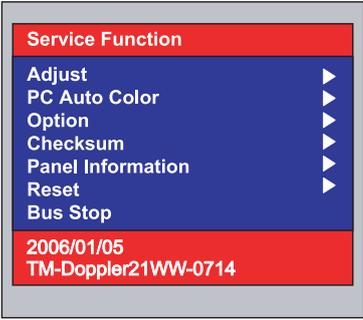
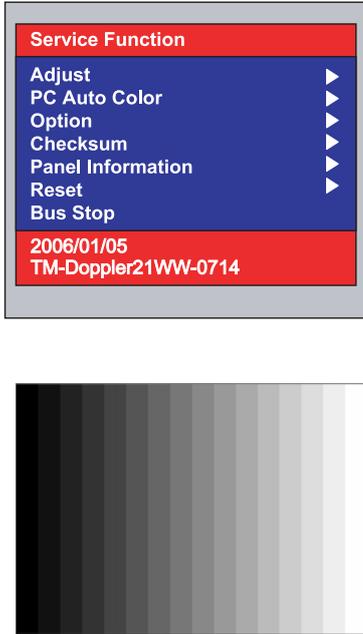
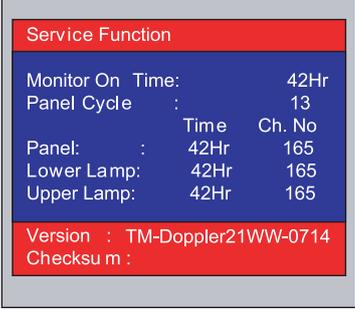


Figure 3. The display of the Panel Information in the Function OSD

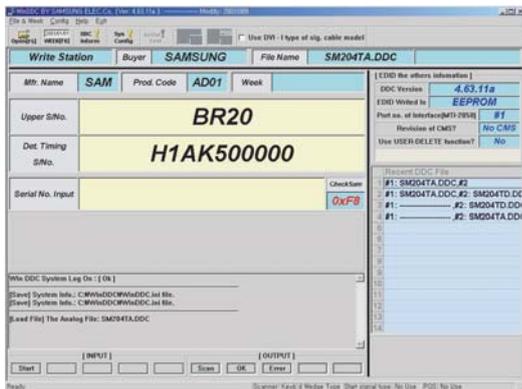
3-7 Hidden Key list

No	Function	Action method
1	Hidden Service Function 	<ul style="list-style-type: none"> - After setting in turn on to brightness and contrast '0', push the 'menu' button more than 5 seconds - Service Function appear at left upper - OSD which the basic adjustment is added <ol style="list-style-type: none"> 1) Adjust 2) PC Auto color 3) Option 4) Checksum 5) Panel Information 6) Reset 7) Bus Stop <p>*. 2006/01/05: MCU firmware date *. TM-Doppler21ww-0714 : MCU firmware version information (this information must be appended due to a compatibility problem report.)</p>
2	Hidden Service Function (1) 	<p>Move to the (-) / (+) key, select the 'Enter' key</p> <ol style="list-style-type: none"> 1) Auto adjustment 2) PC Auto Color : in case that color of all screen is wrong, excute the PC Auto color at 16 gray pattern of 1680*1050/60Hz (refer to attach left 16gray pattern) 3) Option: Spread Step / Spread Span (for EMI test) 4) Checksum: MCU firmware checksum information (this information must be appended due to a compatibility problem report.)

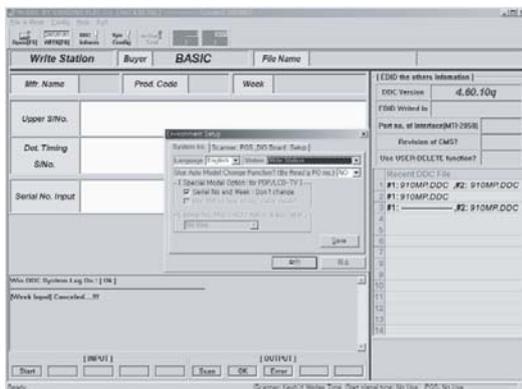
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No	Function	Action method
3	<p>Hidden Service Function (1)</p> <p>*.When Panel Information selected</p>  <p>The screenshot shows a menu titled 'Service Function' with a blue background. It lists several parameters: Monitor On Time (42Hr), Panel Cycle (13), Panel (42Hr, 165), Lower Lamp (42Hr, 165), and Upper Lamp (42Hr, 165). At the bottom, it shows Version (TM-Doppler21WW-0714) and Checksum.</p>	<p>5) Panel Information various function are included in information.</p> <ol style="list-style-type: none"> 1. Monitor On Time : Power On Time 2. Panel Cycle : Panel On/off time (Power off, Mode change, DPMS on/off ...) 3. Panel : Panel on Time (when the panel is changed , select the Reset) 4. Lower lamp : Lower lamp on time (when the Lower lamp is changed , select the Reset) 5. Upper lamp : Upper Lamp on time (when the Upper Lamp is changed , select the Reset) <p>6) Reset: Factory reset</p> <p>7) Bus Stop: The communication Line ON / OFF</p>

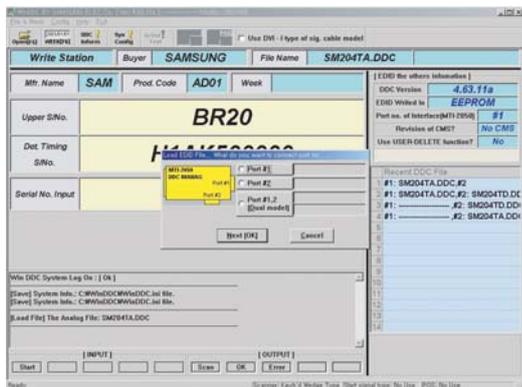
3-8 EDID Installation with Windows Program



1. Execute "WinDDC.exe"



2. Click "Sys Config"
 Select "Station : Write station"
 Check "Serial No and Week : Don't change"
 Click "Save"



3. Click "Open" icon.
 Select "Connected Port #1" and Next "OK".
 * File Name - SM215TWA.DDC
 SM215TWD.DDC
 Press enter key on your keyboard.



4. Confirm the "DDC OK".

- After Replacing the Main Board
- EDID Installation (Analog and Digital)

Memo