



COLOR MONITOR

SyncMaster 753DF (DF17K*)

SyncMaster 755DF (DF17J*)

SERVICE Manual

COLOR MONITOR



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1 Precautions

1-1 Safety Precautions

WARNINGS

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power before servicing.
3. When the chassis is operating, semiconductor heatsinks are potential shock hazards.

1-1-1 Servicing the High Voltage VR and CRT :

WARNING: A high voltage VR replaced in the wrong direction may cause excessive X-ray emissions.

Caution: When replacing the high voltage adjustment VR, it must be fixed by a soldering iron after it is properly set.

1. When servicing the high voltage system, remove the static charge by connecting a 10 kohm resistor in series with an insulated wire (such as a test probe) between the chassis and the anode lead.
2. If the HV VR requires adjustment, (a) Replace the VR and adjust the high voltage to the specification. (b) Use a soldering iron to melt the adjustment cap on the HV VR to prevent any movement.
3. When troubleshooting a monitor with excessively HV, avoid being unnecessarily close to the monitor. Do not operate the monitor for longer than is necessary to locate the cause of excessive voltage.
4. High voltage should always be kept at the rated value, no higher. Only when high voltage is excessive are X-rays capable of penetrating the shell of the CRT, including the lead in glass material. Operation at high voltages may also cause failure of the CRT or high voltage circuitry.
5. When the HV regulator is operating properly, there is no possibility of an X-ray problem. Make sure the HV does not exceed its specified value and that it is regulating correctly.
6. The CRT is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the CRT only with one that is the same or equivalent type as the original.
7. Handle the CRT only when wearing shatterproof goggles and after completely discharging the high voltage anode.
8. Do not lift the CRT by the neck.

1-1-2 Fire and Shock Hazard :

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.

2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):
WARNING: Do not use an isolation transformer during this test.

Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

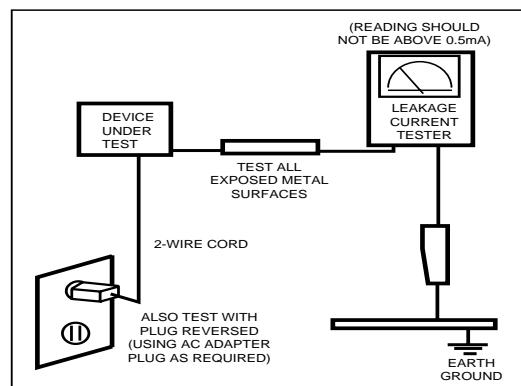


Figure 1-1. Leakage Current Test Circuit

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by

⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and / or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

Components identified by **⊗** on schematics and parts lists must be sealed by a soldering iron after replacement and adjustment.

1-2 Servicing Precautions

WARNING1: First read the “Safety Precautions” section of this manual. If unforeseen circumstances create conflict between the servicing precautions and safety precautions, always follow the safety precautions.

WARNING2: A high voltage VR replaced in the wrong direction may cause excessive X-ray emissions.

WARNING3: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet, and should be followed closely.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect all test components in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug. The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the +B voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as “anti-static” can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.
9.  Indicates ESDs on the Schematic Diagram in this manual.

2 Product Specifications

2-1 Specifications

Item	Description
Picture Tube:	17-Inch (43 cm): 16-inch (40.6 cm) viewable, Flat-face, 90° Deflection, 0.20 mm (Horizontal) / 0.24 mm (Diagonal) Dot pitch, Silica coated with anti-electrostatic properties (TCO: Multilayer coating), Medium-short persistence phosphor
Scanning Frequency	Horizontal : S/M 753DF ; 30 kHz to 70 kHz / S/M 755DF ; 30 kHz to 85 kHz Vertical : 50 Hz to 160 Hz
Display Colors	Unlimited colors
Maximum Resolution	S/M 753DF ; Horizontal : 1280 Dots, Vertical : 1024 Lines S/M 755DF ; Horizontal : 1600 Dots, Vertical : 1200 Lines
Input Video Signal	Analog, 0.7 Vp-p positive at 75 Ω, internally terminated
Input Sync Signal	Separate Sync: TTL level, positive/negative
Maximum Pixel Clock rate	S/M 753DF ; 110 MHz, S/M 755DF ; 135 MHz
Active Display	Horizontal : 312 mm ± 4 mm, Vertical : 234 mm ± 4 mm
Input Voltage	AC 90 to 264 Volts, 60 Hz or 50 Hz ± 3 Hz
Power Consumption	S/M 753DF ; 90 Watt (max), S/M 755DF ; 100 Watt (max)
Dimensions (W x D x H)	Unit : 16.22 x 16.54 x 16.36 Inches (412 x 420 x 415.5 mm) Carton : 21.02 x 21.73 x 18.39 Inches (534 x 552 x 467 mm)
Weight (Net/Gross)	33.1 lbs (15.0 kg) / 38.6 lbs (17.5 kg)
Environmental Considerations	Operating Temperature : 32°F to 104°F (0°C to 40°C) Humidity : 10 % to 80 % Storage Temperature : -4°F to 113°F (-20°C to 45°C) Humidity : 5 % to 95 %
<ul style="list-style-type: none">• Above models comply with SWEDAC (MPR II) recommendations for reduced electromagnetic fields.• Designs and specifications are subject to change without prior notice.	

2-2 Pin Assignments

Pin No.	Sync Type	Separate	Macintosh
1		Red	GND-R
2		Green	Red
3		Blue	H/V Sync
4		N-C	Sense 0
5		DDC Return	Green
6		GND-R	GND-G
7		GND-G	Sense 1
8		GND-B	Reserved
9		N-C	Blue
10		GND-Sync/Self-raster	Sense 2
11		N-C	GND
12		DDC Data	V-Sync
13		H-Sync	GND-B
14		V-Sync	GND
15		DDC Clock	H-Sync

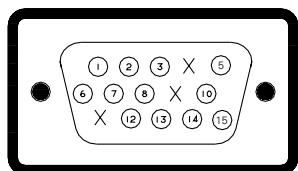


Figure 2-1. Male Type

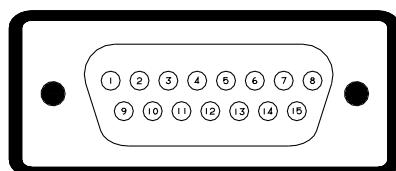


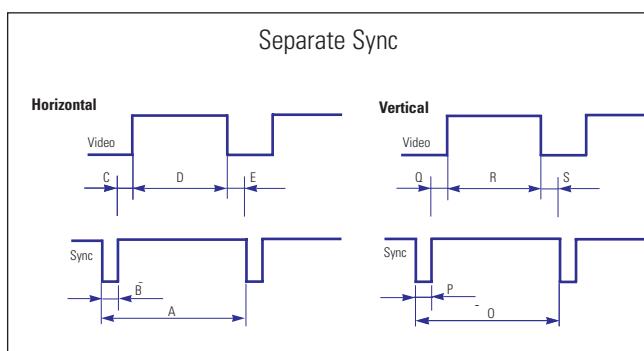
Figure 2-2. Male Type

2-3 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1. Timing Chart

Mode Timing	IBM		VESA						
	VGA2/70 Hz 720 x 400	VGA3/60 Hz 640 x 480	640/75 Hz 640 x 480 (S/M753DF)	640/85 Hz 640 x 480	800/75 Hz 800 x 600	800/85 Hz 800 x 600	1024/75 Hz 1024 x 768	1024/85 Hz 1024 x 768	1280/75Hz 1280x1024 (S/M755DF)
fH (kHz)	31.469	31.469	37.500	43.269	46.875	53.674	60.023	68.677	79.976
A μ sec	31.778	31.777	26.667	23.111	21.333	18.631	16.660	14.561	12.504
B μ sec	3.813	3.813	2.032	1.556	1.616	1.138	1.219	1.016	1.067
C μ sec	1.907	1.907	3.810	2.222	3.232	2.702	2.235	2.201	1.837
D μ sec	25.422	25.422	20.317	17.778	16.162	14.222	13.003	10.836	9.481
E μ sec	0.636	0.636	0.508	1.556	0.323	0.569	0.203	0.508	0.119
fV (Hz)	59.940	70.087	75.000	85.008	75.000	85.061	75.029	84.997	75.025
O msec	16.683	14.268	13.333	11.764	13.333	11.756	13.328	11.765	13.329
P msec	0.064	0.064	0.080	0.671	0.064	0.056	0.050	0.044	0.038
Q msec	1.048	1.080	0.427	0.578	0.448	0.503	0.466	0.524	0.475
R msec	15.253	12.711	12.800	11.093	12.800	11.179	12.795	11.183	12.804
S msec	0.318	0.413	0.027	0.023	0.021	0.019	0.017	0.015	0.013
Clock Frequency (MHz)	25.175	28.322	31.500	36.000	49.500	56.250	78.750	94.500	135.000
Polarity									
H.Sync	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Positive	Positive
V.Sync	Negative	Positive	Negative	Negative	Positive	Positive	Positive	Positive	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate



A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

Memo

3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the SyncMaster 753DF/755DF monitors.

WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

3-1 Disassembly

Cautions: 1. Disconnect the monitor from the power source before disassembly.

2. To remove the Rear Cover, you must use the special opening jig tool.

3-1-1 Cabinet Disassembly

1. With a pad beneath it, stand the monitor on its front with the screen facing downward and the base closest to you. Make sure nothing will damage the screen.
2. Remove the Stand from the monitor.
(Refer to Stand manual)
3. Incline the monitor by lifting the rear of the monitor.

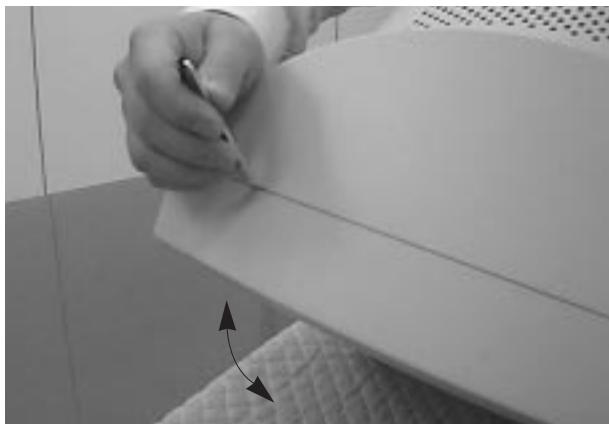


Figure 1

4. Push the Opening jig each groove along the top of the monitor till it makes a "ttak" sound.
(2 grooves : Left and Right, Make sure each snap is disengaged.)

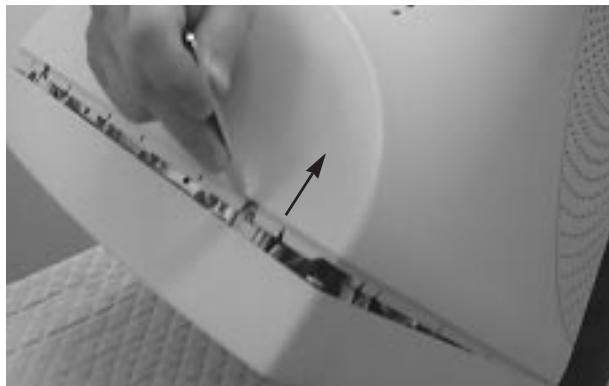


Figure 2

5. Squeeze the hold-snap on bottom of the monitor using your hand.



Figure 3

6. Insert the Opening jig into the groove then release the hold-snap.

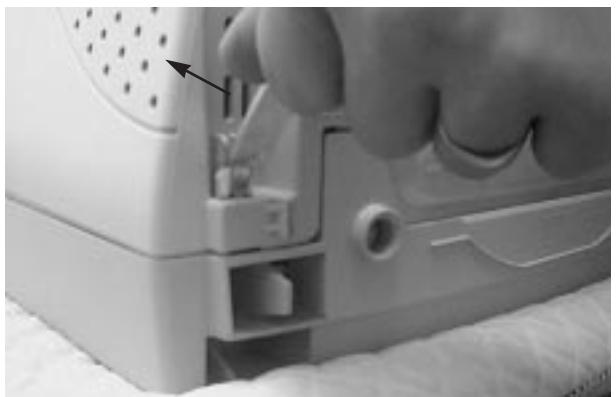


Figure 4

3 Disassembly and Reassembly

7. When the hold-snap release, lift the Rear Cover slightly to make sure it doesn't re-engage while you release the snap on the other side.

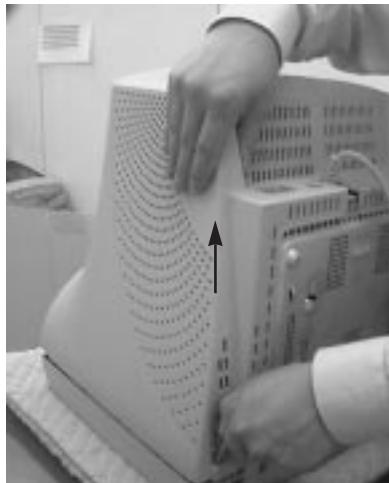


Figure 5

8. In a similar manner, Release the hold-snap on the opposite side.
9. Pull the Rear Cover up off the monitor.

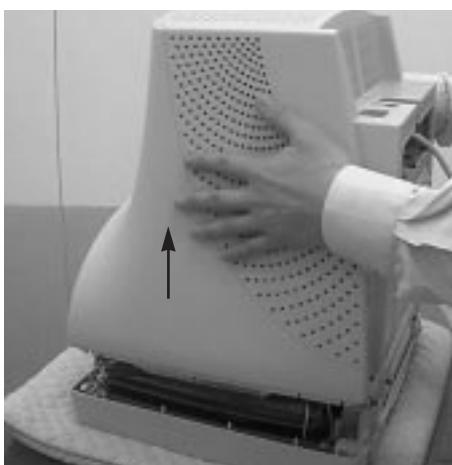


Figure 6

10. Using pinch-nose pliers or long-nose pliers, carefully disconnect the Anode Cap from the CRT.

Warning: **Do not touch the Anode contact on the CRT (High Voltage may remain).**

Note : If the hold-snap on the bottom of the Front Cover is broken, secure the cabinet by applying a 4x16 screw in the extra holes on each side of the cabinet.

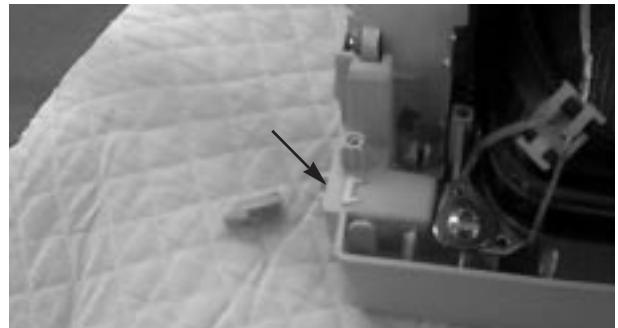


Figure 7



Figure 8

3-1-2 Removing the CRT Socket PCB

1. Complete all previous steps.
2. Lift up the Video Spring and remove the CRT Socket PCB from the CRT.

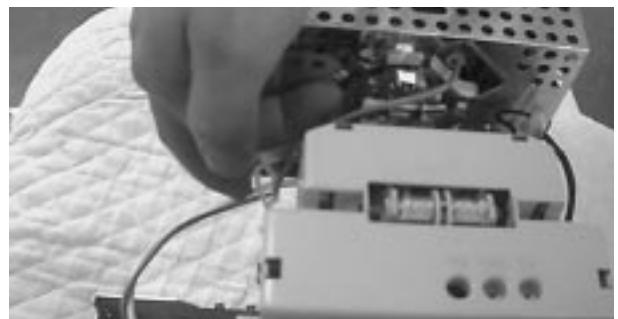


Figure 9

3. Disconnect all connectors on the CRT Socket PCB.
4. Using a solder iron, disconnect Ground (G2) on the back of the Video Shield and remove the Shield Cap.
5. Remove the screw on the front of the Shield Socket.
6. Desolder the 4 tabs on the CRT Socket PCB and remove Shield.
7. Place the Video PCB on a flat, level surface that is protected from static electricity.

3-1-3 Removing the Main PCB

1. Complete all previous steps.
2. Disconnect the Degaussing Coil at GT601 and GT602 on the Main PCB.
3. Disconnect all easily accessible ground wires on the Main PCB and Bottom Chassis.
4. Disconnect the DY connector at the CN303 connector on the Main .
5. Using the jig, release the snaps (2) connecting the Front Cover and Main PCB then lift up the Bottom to separate the two Shield.



Figure 10

6. Remove the screws on the back and along each side of the Bottom Chassis.
7. Carefully lift the Main PCB Ass'y and remove the remaining ground wires.
8. Place the Main PCB Ass'y on a flat, level surface that is protected from static electricity.

3-2 Reassembly

Reassembly procedures are in the reverse order of Disassembly procedures.

3-1-4 CRT Ass'y Disassembly

1. Complete all previous steps.
2. Straighten the Degaussing Coil Assembly coated metal ties and lift the Coil Ass'y from the CRT.
3. Remove the four corner screws and lift the CRT up and away from the Front Cover Assembly and place it on a padded surface.

Caution: Do not lift the CRT by the neck.

If you will be returning this CRT to the monitor, be sure to place the CRT face downward on a protective pad.

Memo

4 Alignment and Adjustments

This section of the service manual explains how to make permanent adjustments to the monitor. Directions are given for adjustments using the monitor Interface Board Ver. 2.0 and software (Softjig).

4-1 Adjustment Conditions

Caution: Changes made without the Softjig are saved only to the user mode settings. As such, the settings are not permanently stored and may be inadvertently deleted by the user.

4-1-1 Before Making Adjustments

4-1-1 (a) ORIENTATION

When servicing, always face the monitor to the east.

4-1-1 (b) MAGNETIC FIELDS

Whenever possible, use magnetic field isolation equipment such as a Helmholtz field to surround the monitor. If a Helmholtz field is not available, frequently degauss the unit under test.

Caution: Other electrical equipment may cause external magnetic fields which may interfere with monitor performance.

Use an external degaussing coil to limit magnetic build up on the monitor. If an external degaussing coil is not available, use the internal degaussing circuit. However, do not use the internal degaussing circuit more than once per 30 minutes.

4-1-1 (c) WARM-UP TIME

The monitor must be on for 30 minutes before starting alignment. Warm-up time is especially critical in color temperature and white balance adjustments.

4-1-1 (d) SIGNAL

Analog, 0.7 Vp-p positive at 75 ohm, internal termination

Sync: Separate
(TTL level negative/positive)

4-1-1 (e) SCANNING FREQUENCY

Horizontal

S/M 753DF : 30 kHz to 70 kHz (Automatic)

S/M 755DF : 30 kHz to 85 kHz (Automatic)

Vertical : 50 Hz to 160 Hz (Automatic)

Unless otherwise specified, adjust at the
1024 x 768 mode (68 kHz/85 Hz),
Refer to Table 2-1 on page 2-3.

4-1-2 Required Equipment

The following equipment may be necessary for adjustment procedures:

4-1-2 (a) DISPLAY CONTROL ADJUSTMENT

1. Non-metallic (-) screwdriver:
1.5, 2.5, 3 mm
2. Non-metallic (+) screwdriver:
1.5, 2.5, 3 mm
3. Digital Multimeter (DMM), or
Digital Voltmeter
4. Signal generator, or
DM200 software
5. Software: Softjig or DM200
6. Interface Board Ver. 2.0 Code No.
BH81-90001K
7. Parallel communications cable (25-pin to
25-pin); Code No. BH81-90001H
8. Signal cable (15-pin to 15-pin cable with
additional 3-pin connector); Code No.
BH81-90001J
9. 5 V DC adapter, not supplied
10. Personal computer

Note: Softjig Ass'y (includes items 6, 7 and 9)
Code No. BH81-90001L

4-1-2 (b) COLOR ADJUSTMENTS

1. All equipment listed in 4-1-2 (a), above
2. Color analyzer, or any luminance
measurement equipment

4-1-3 Connecting the SoftJig

Connect the monitor to the signal generator and/or PC as illustrated in Figures 4-1 and 4-2.

Note: The signal cable connector which includes the 3-wire cable must connect to the monitor. If you use Setup 2 (PC only, no signal generator) you can only make adjustments to the signal timing available on that computer system. To make corrections to all factory timings requires the use of an additional signal generator.

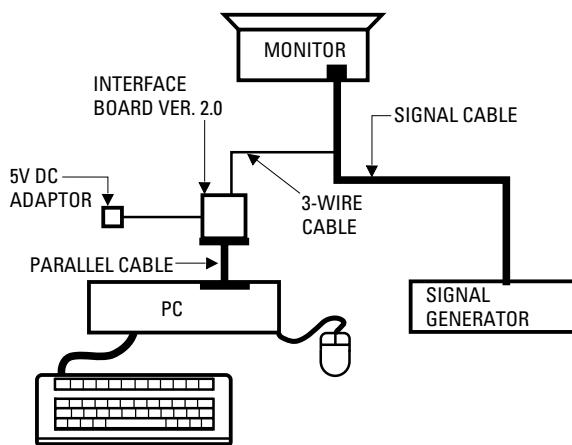


Figure 4-1. Setup 1, With Signal Generator

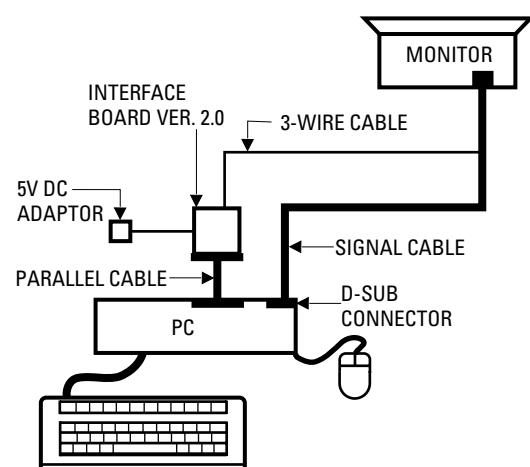


Figure 4-2. Setup 2, Without Signal Generator

4-2 Display Control Adjustments

4-2-1 HIGH VOLTAGE ADJUSTMENT

Signal: 1024 x 768 (68 kHz/85 Hz)

Display image: Don't care

Contrast: Minimum

Brightness: Minimum

Limit: 26.0 kV ± 0.3 kV

Measure the hight voltage level at the anode cap. High voltage should be within the limit as above. If the high voltage needs adjustment use the following procedure.

PROCEDURE

1. Turn the power off and disconnect the AC line cord from the power source.
2. Turn the power on after connecting high voltage Probe.
3. Using the jig, adjust the high voltage to the specification.

* High Voltage Adjustment PROCEDURE using Softjig

- ① Select matching model name in "Model" field.
- ② Select "@7: Zero Beam" in menu after selecting "Extra 1"
- ③ Adjust high voltage using control bar after selecting "HV MIN"
- ④ Turn the power off/on after adjustment finished.
- ⑤ Check the high voltage has been fixed with adjusted value after reselecting "@7: Zero Beam".

4-2-2 SCREEN VOLTAGE ADJUSTMENT

CONDITIONS

Signal: 1024 x 768 (68 kHz/85 Hz)

Display image: Don't care

Contrast: Minimum

Brightness: Minimum

Limit: 520 V ± 10 V

Screen Voltage adjustment procedure using softjig is all the same as 4-2-1 but selecting "G2 CONT" on the contrary to "HV MIN".

4-2-3 CENTER RASTER

Adjust SW401 so that the back raster comes to the center when you apply basic mode for 17".

4-2-4 Centering

Centering means to position the center point of the display in the middle of the display area. Horizontal size and position and vertical size and position control the centering of the display.

Adjust the horizontal size and vertical size to their optimal settings: 312 mm (H) x 234 mm (V).

Adjust the horizontal position and vertical position to ≤ 4.0 mm of the center point of the screen.

$$|A-B| \leq 4.0 \text{ mm}, \quad |C-D| \leq 4.0 \text{ mm}.$$

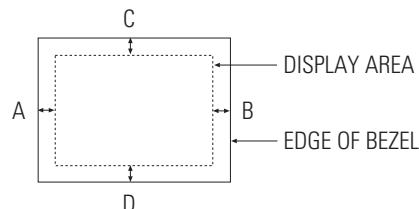


Figure 4-3. Centering

* In Softjig window, "Geometry" has to be selected for GD adjustment.

4-2-4 (a) HORIZONTAL SIZE ADJUSTMENT

CONDITIONS

Scanning frequency: 68 kHz/85 Hz

Display image: Crosshatch pattern

Brightness: Maximum

Contrast: Maximum

Use control bar after selecting "H-SIZE" in left menu to adjust the horizontal size of the display pattern to 312 mm.(Tolerance: ± 3 mm.)

If "H-SIZE" is not enough to adjust it, select "SIZE B+" by turns.

4-2-4 (b) VERTICAL SIZE ADJUSTMENT

CONDITIONS

Scanning frequency: 68 kHz/85 Hz

Display image: Crosshatch pattern

Brightness: Maximum

Contrast: Maximum

Use control bar after selecting "V-SIZE" in left menu to adjust the vertical size of the display pattern to 234 mm.(Tolerance: ± 3 mm.)

4-2-4 (c) HORIZONTAL POSITION ADJUSTMENT

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
Display image: Crosshatch pattern

Use control bar after selecting “H-POSITION” in left menu to center the horizontal image on the raster.

4-2-4 (d) VERTICAL POSITION ADJUSTMENT

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
Display image: Crosshatch pattern

Use control bar after selecting “V-POSITION” in left menu to center the vertical image on the raster.

4-2-5 Linearity

Linearity affects the symmetry of images as they appear on the screen. Unless each row or column of blocks in a crosshatch pattern is of equal size, or within the tolerances shown in Tables 4-2 and 4-3, an image appears distorted, elongated or squashed.

Table 4-1. Standard Modes Linearity: 640x480/85Hz,
800x600/85Hz and 1024x768/85Hz

	Standard Modes Linearity	
	Each block (10 %)	Difference between adjacent blocks (4 %)
4 : 3	Horizontal: 20.9~23.1 Vertical : 20.9~23.1	Horizontal: Less than 0.88 mm Vertical : Less than 0.88 mm
5 : 4	Horizontal: 19.60~21.65 Vertical : 20.9~23.1	Horizontal: Less than 0.82 mm Vertical : Less than 0.88 mm

Table 4-2. Other Modes Linearity: VGA, SVGA, XGA, MAC, etc.

	Supported Timing Mode	
	Each block (14 %)	Difference between adjacent blocks (5 %)
4 : 3	Horizontal: 20.5~23.5 Vertical : 20.5~23.5	Horizontal: Less than 1.10 mm Vertical : Less than 1.10 mm
5 : 4	Horizontal: 19.18~22.07 Vertical : 20.5~23.5	Horizontal: Less than 1.03 mm Vertical : Less than 1.10 mm

4-2-5 (a) HORIZONTAL LINEARITY ADJUSTMENT

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Maximum
Contrast: Maximum

To adjust the Horizontal Linearity, refer to Tables 4-2 and 4-3 for the tolerance range.

Increase or decrease **H_LIN** to optimize the image.

4-2-5 (b) VERTICAL LINEARITY ADJUSTMENT

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Maximum
Contrast: Maximum

To adjust the Vertical Linearity, refer to Tables 4-2 and 4-3 for the tolerance range.

Use control bar after selecting “V-LINEARITY BAL” in left menu to optimize the image.

4-2-6 Trapezoid Adjustment

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Maximum
Contrast: Maximum

Use control bar after selecting “TRAPEZOID” in left menu to make the image area rectangular.

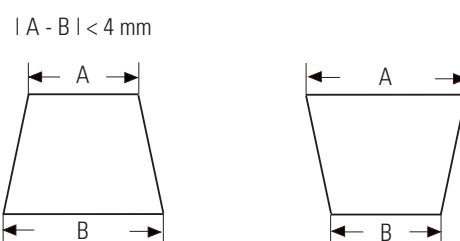


Figure 4-4. Trapezoid

4-2-7 Pinbalance Adjustment

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
 Display image: Crosshatch pattern
 Brightness: Maximum
 Contrast: Maximum

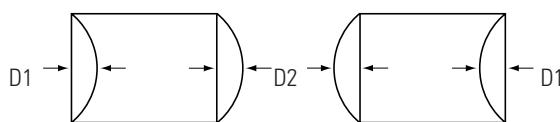


Figure 4-5. Pinbalance

Use control bar after selecting “PINBALANCE” in left menu to optimize the image.

4-2-8 Parallelogram Adjustment

CONDITIONS

Scanning Frequency: 68 kHz/85 Hz
 Display image: Crosshatch pattern
 Brightness: Maximum
 Contrast: Maximum

Use control bar after selecting “PARALLEL” in left menu to make the image area rectangular.

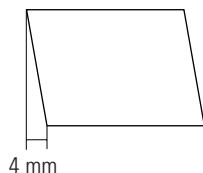


Figure 4-6. Parallelogram

4-2-9 Side Pincushion Adjustment

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
 Display image: Crosshatch pattern

Use control bar after selecting “PINCUSHION” in left menu to straighten the sides of the image area.

$|C1|, |C2| \leq 2.0 \text{ mm}$, $|D1|, |D2| \leq 2.0 \text{ mm}$.

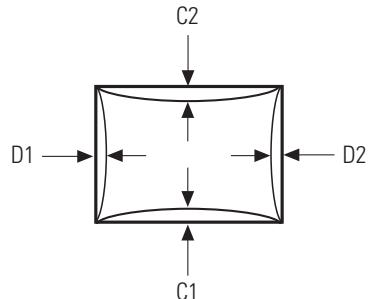


Figure 4-7. Pincushion

4-2-10 Tilt Adjustment

CONDITIONS

Scanning Frequency: 68 kHz/85 Hz
 Display image: Crosshatch pattern
 Brightness: Maximum
 Contrast: Maximum

Use control bar after selecting “ROTATION” in left menu to correct the tilt of the display.

4-2-11 Degauss

No adjustments are available for the degaussing circuit. The degaussing circuit can effectively function only once per 30 minutes.

4-2-12 To Delete the User Mode Data

To delete the adjustment data from the user modes, click “@4: USER DELETE” in right menu.

4-2-13 Save the Data

To save the adjustment data for a mode, press “@3: ALL MODE SAVE” in right menu.

4-3 Color Adjustments

CAUTION: Check below condition before color adjustment

Video signal : Analog 0.7 Vp-p (at 75 Ω)
Sync : TTL level (H, V separate signal)

* Select "Color" in Softkey menu for color adjustment.

4-3-1 Color Coordinates (Temperature)

Color temperature is a measurement of the radiant energy transmitted by a color. For computer monitors, the color temperature refers to the radiant energy transmitted by white. Color coordinates are the X and Y coordinates on the chromaticity diagram of wavelengths for the visible spectrum.

CONDITIONS

Measurement instrument: Color analyzer
Scanning frequency: 68 kHz/85 Hz
Display image: White flat field at center of display area
Luminance: Maximum

PROCEDURE

Use the directions in sections 4-3-2 through 4-3-3 to adjust the color coordinates for:

9300K to $x = 0.283 \pm 0.02$, $y = 0.298 \pm 0.02$
6500K to $x = 0.313 \pm 0.02$, $y = 0.329 \pm 0.02$

4-3-2 Color Adjustments for 9300K

4-3-2 (a) BACK RASTER COLOR ADJUSTMENT

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
Display image: Back raster pattern
Brightness: Maximum
Contrast: Maximum

1. Select "@1: CHANNEL 1" in right menu to control the color for 9300K.
2. Adjust the luminance of the back raster to between 0.5 to 0.7 ft-L using control bar after selecting "GREEN CUTOFF" in the menu.
3. Use control bar after selecting "BLUE CUTOFF" in left menu to set the "y" coordinate to 0.298 ± 0.02 .
4. Use control bar after selecting "RED CUTOFF" in left menu to 0.283 ± 0.02 .

* If color values would not be matched desirable values, repeat sequence 3 and 4 after readjusting "GREEN CUTOFF" control a little different.

4-3-2 (b) WHITE BALANCE ADJUSTMENT

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
Display image: White box pattern
Brightness: 0.06ft-L at Back Raster Pattern Display
Contrast: Maximum

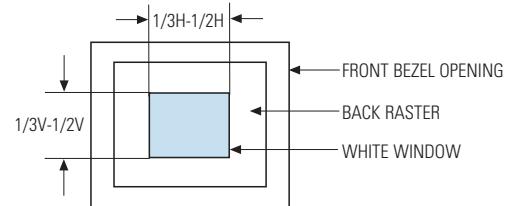


Figure 4-8. White Box Pattern

1. Use control bar after selecting "RED GAIN", "GREEN GAIN" and "BLUE GAIN" to adjust the luminance to 40 ft-L with the color coordinates ranged for 9300K to $x = 0.283 \pm 0.02$, $y = 0.298 \pm 0.02$.

4-3-2 (c) ABL ADJUSTMENT

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
Display image: Full white pattern
Brightness: Maximum
Contrast: Maximum

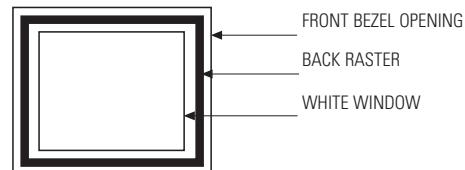


Figure 4-9. Full White Pattern

1. Check the ABL. If it is not within the specifications, use the ABL controls to adjust it. (29 ± 1 ft-L)
2. Select "@4: COLOR SAVE" to save the data.
3. Select "@6: ALL COLOR SAVE" to save the CH2.

4-3-2 (d) WHITE BALANCE ADJUSTMENT VERIFICATION

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
 Display image: Back raster pattern
 Full White Pattern
 X-Y Coordinates: $x = 0.283 \pm 0.02$,
 $y = 0.298 \pm 0.02$
 ABL Luminance Refer to 4-3-2(c)
 Brightness: Maximum
 Contrast: 5 ft-L, 24 ft-L

1. Check whether the color coordinates of the back raster satisfy the above spec.
 If they do not, return to 4-3-2 (a) and readjust all settings.
2. Display a full white pattern.
3. Select "Geometry" in softjig menu.
4. Select "@7: 5-ft" in right menu.
5. Check whether the white coordinates of the video meet the above coordinates spec.
6. Select "@8: 24-ft" in right menu.
7. Check whether the white coordinates of the video satisfies the above spec.
 If they do not, return to 4-3-2 (a) and readjust all settings.

Select "Color" and click "@2: CHANNEL 2" for color adjustment for 6500K
 Repeat the sequence of 9300K adjustment.
 The luminance values the same as 9300K, but the color coordinated of back raster and white box are : $x = 0.313 \pm 0.02$ $y = 0.329 \pm 0.02$

4-3-3 Luminance Uniformity Check

Luminance is considered uniform only if the ratio of lowest to highest brightness areas on the screen is not less than 7.5:10.

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
 (1024 x 768)
 Display image: White flat field
 Brightness: Cut off point at 24 ft-L
 Contrast: Maximum

PROCEDURE

Measure luminance at nine points on the display screen (see figure below).

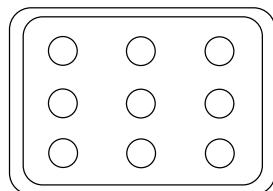


Figure 4-10. Luminance Uniformity Check Locations

4-3-4 Focus Adjustment

CONDITIONS

Scanning frequency: 68 kHz/85 Hz
 (1024 x 768)
 Display image: "H" character pattern
 Brightness: Cut off point
 Contrast: Maximum

PROCEDURE

1. Adjust the Focus VR on the FBT to display the sharpest image possible.
2. Use Locktite to seal the Focus VR in position.

4-3-5 Color Purity Adjustment

Color purity is the absence of undesired color. Conspicuous mislanding (unexpected color in a uniform field) within the display area shall not be visible at a distance of 50 cm from the CRT surface.

CONDITIONS

Orientation: Monitor facing east
 Scanning frequency: 68 kHz/85 Hz
 Display image: White flat field
 Luminance: Cut off point at the center of the display area

Note: Color purity adjustments should only be attempted by qualified personnel.

PROCEDURE

For trained and experienced service technicians only.

Use the following procedure to correct minor color purity problems:

1. Make sure the display is not affected by external magnetic fields.
2. Make sure the spacing between the PCM assembly and the CRT stem is 29 mm \pm 1 mm.
3. Display a green pattern over the entire display area.
4. Adjust the purity magnet rings on the PCM assembly to display a pure green pattern.
(Optimum setting: x = 0.295 \pm 0.015,
y = 0.594 \pm 0.015)
5. Repeat steps 4 and 5 using a red pattern and then again, using a blue pattern.

Table 4-4. Color Purity Tolerances

Red:	x = 0.640 \pm 0.015	y = 0.323 \pm 0.015
Green:	x = 0.295 \pm 0.015	y = 0.594 \pm 0.015
Blue:	x = 0.142 \pm 0.015	y = 0.066 \pm 0.015

(For 9300K color adjustment: x = 0.283 \pm 0.02, y = 0.298 \pm 0.02)

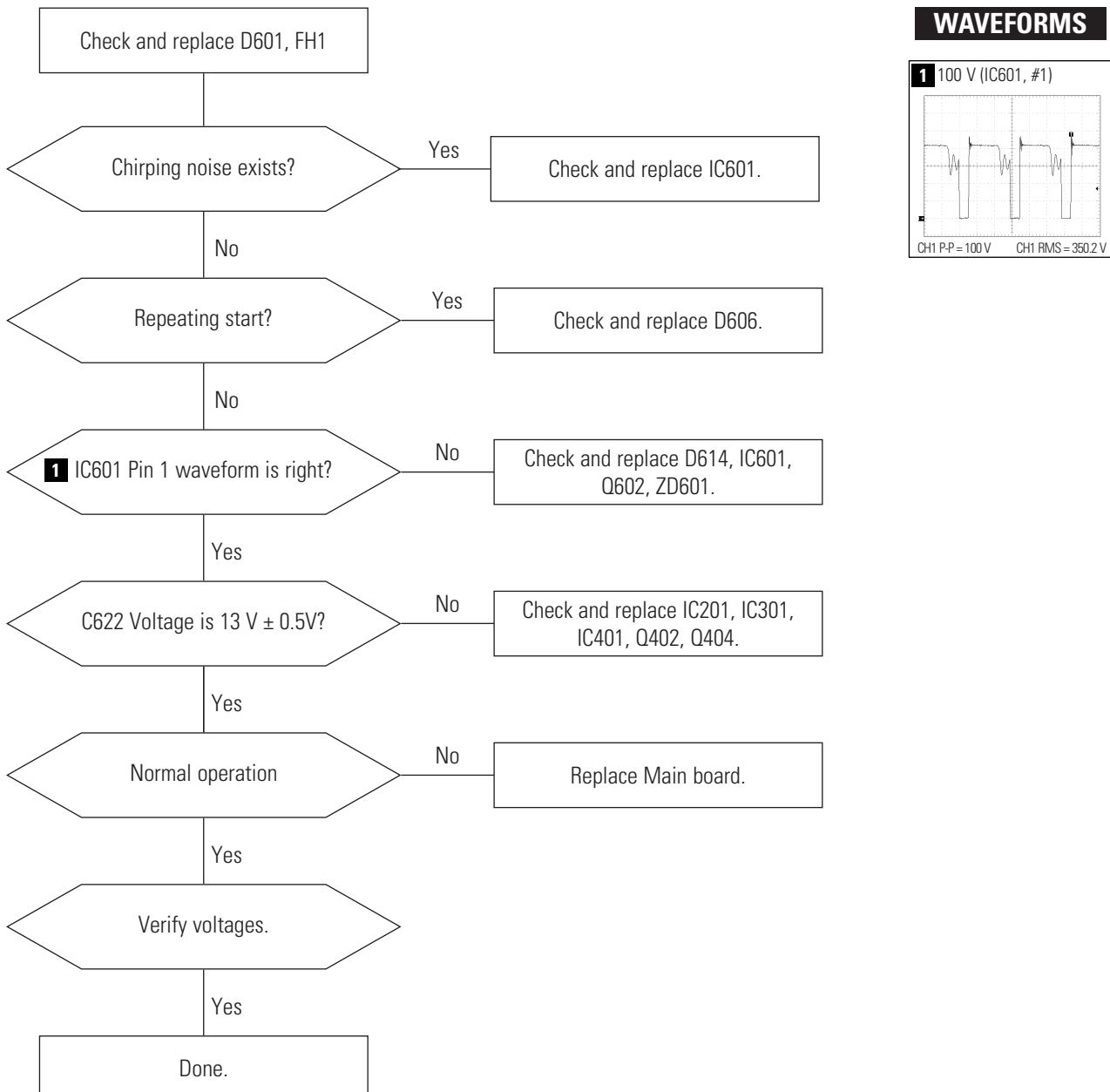
6. When you have the PCMs properly adjusted, carefully glue them together to prevent their movement during shipping.

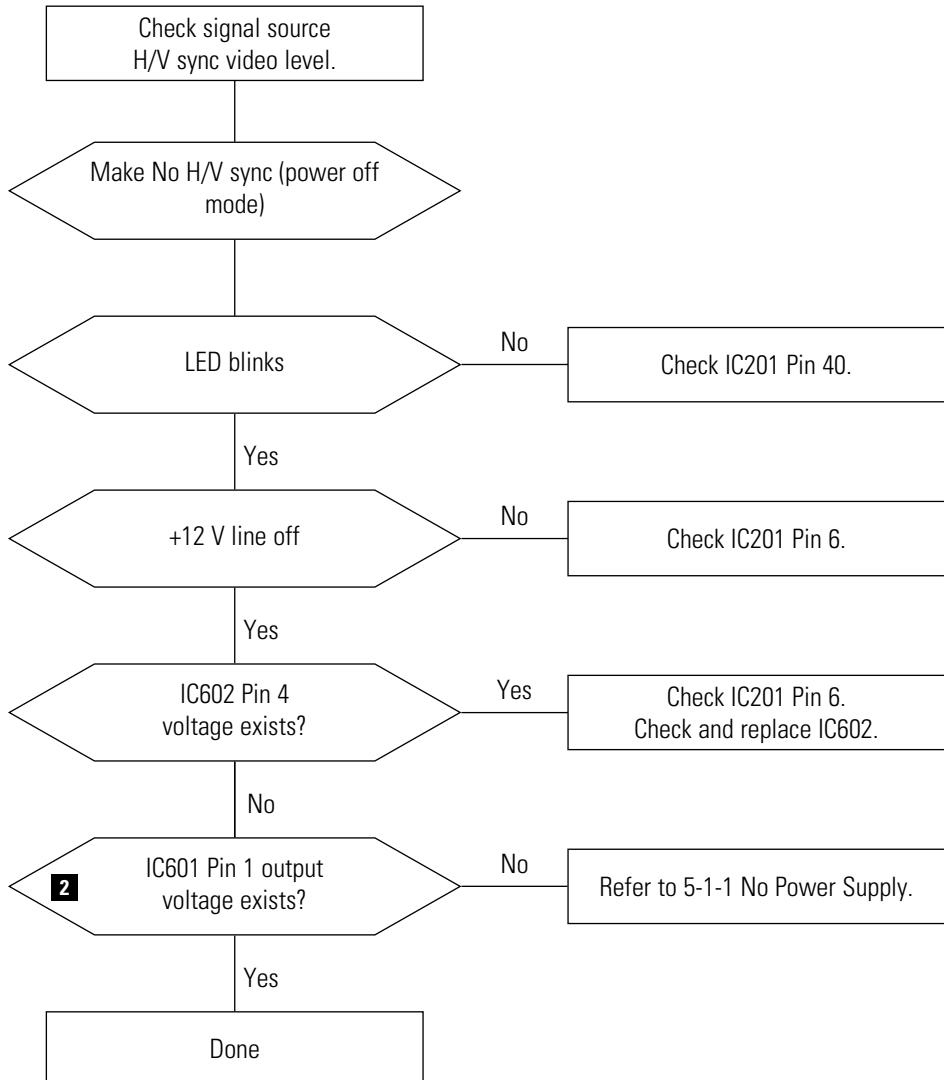
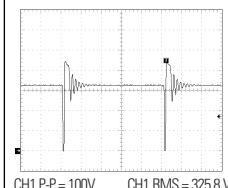
5 Troubleshooting

5-1 Parts Level Troubleshooting

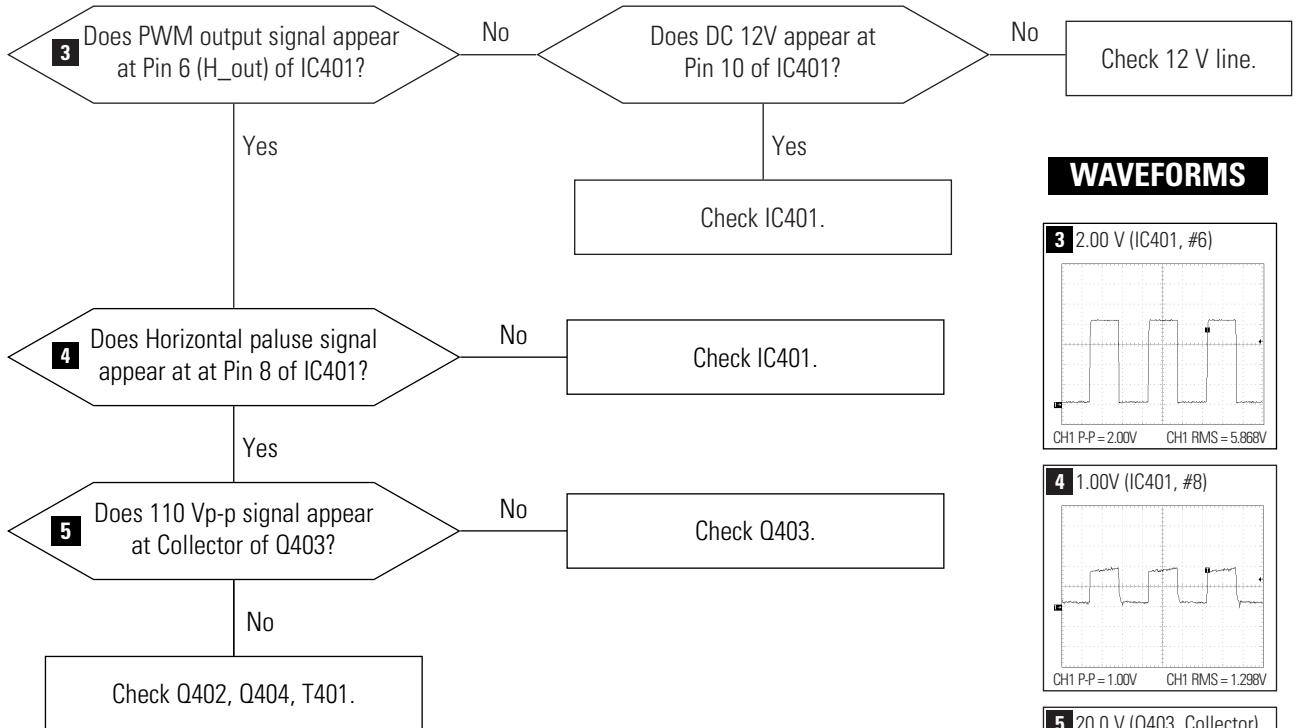
- Notes:**
1. If a picture does not appear, fully rotate the brightness and contrast controls clockwise and reinspect.
 2. Check the following circuits.
 - No raster appears: Power circuit, Horizontal output circuit.
 - High voltage develops but no raster appears: Video output circuits.
 - High voltage does not develop: Horizontal output circuits.

5-1-1 No Power Supply

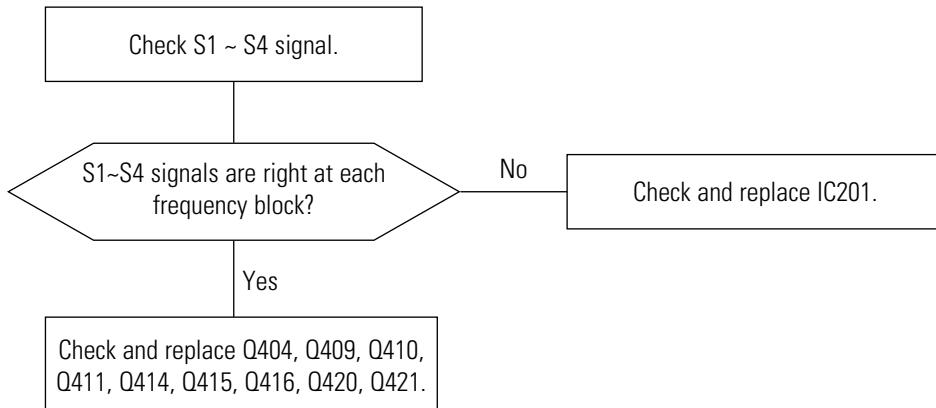


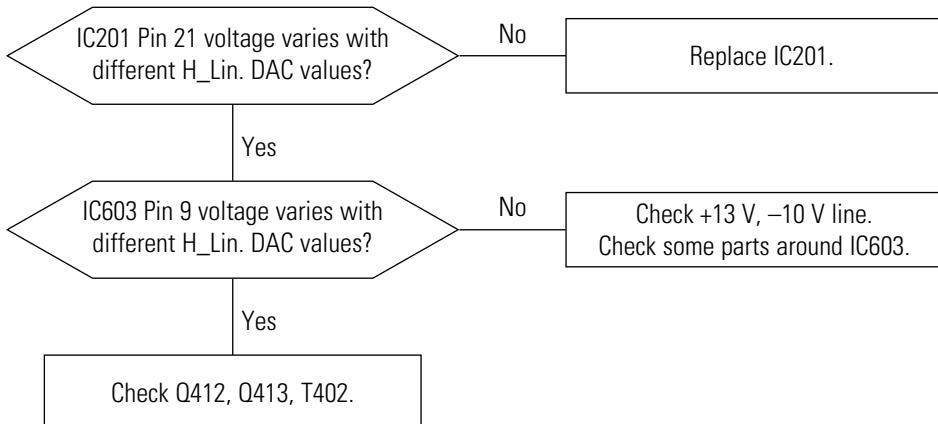
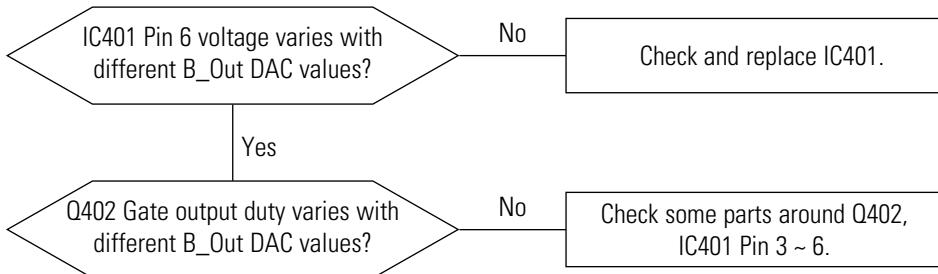
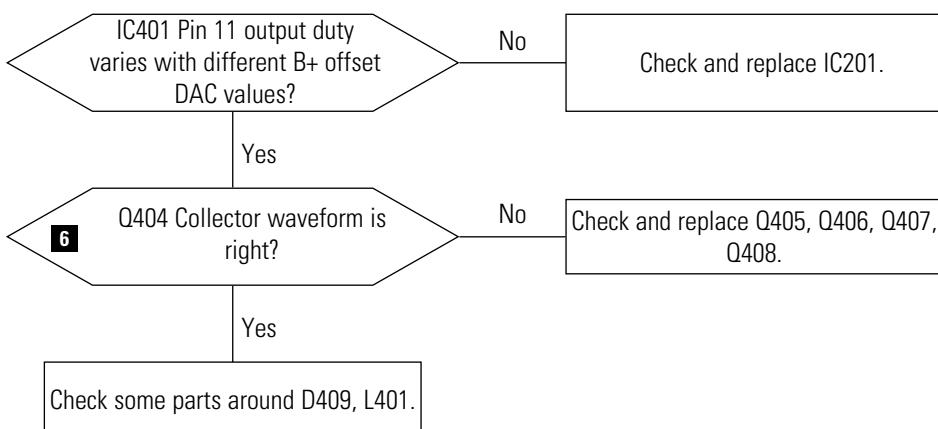
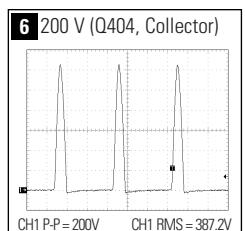
5-1-2 DPMS Failure**WAVEFORMS****2** 100V (IC601, #1)

5-1-3 H_Deflection Failure

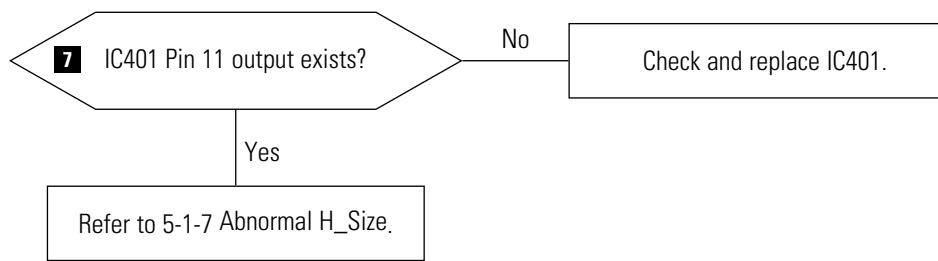


5-1-4 S Correction Failure

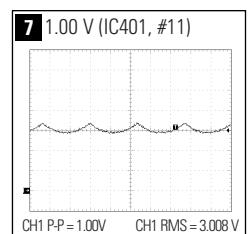


5-1-5 H_Lin. Failure**5-1-6 Invariable H_Size****5-1-7 Abnormal H_Size****WAVEFORMS**

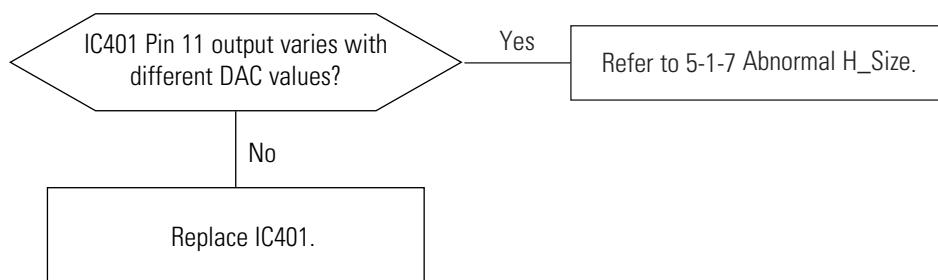
5-1-8 Side Pin or Trap Failure



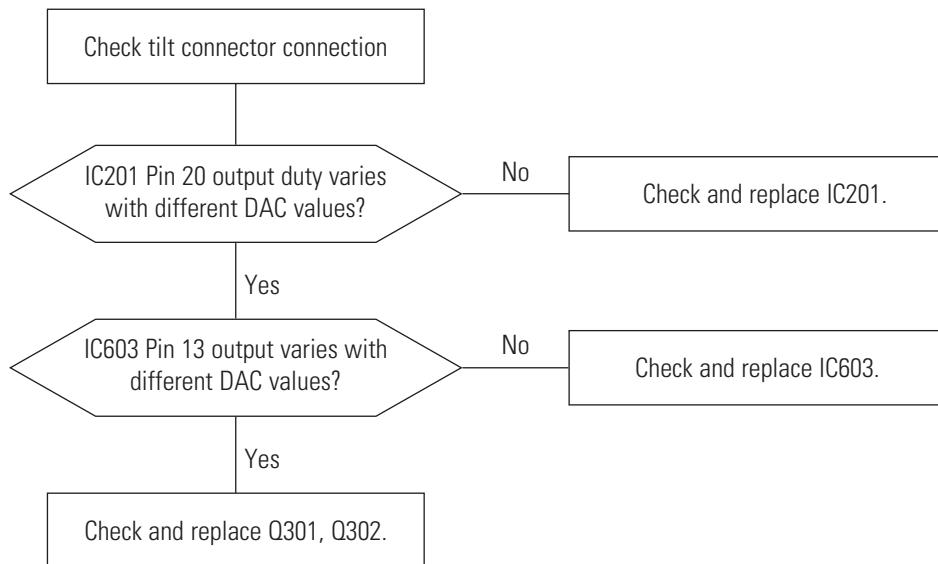
WAVEFORMS

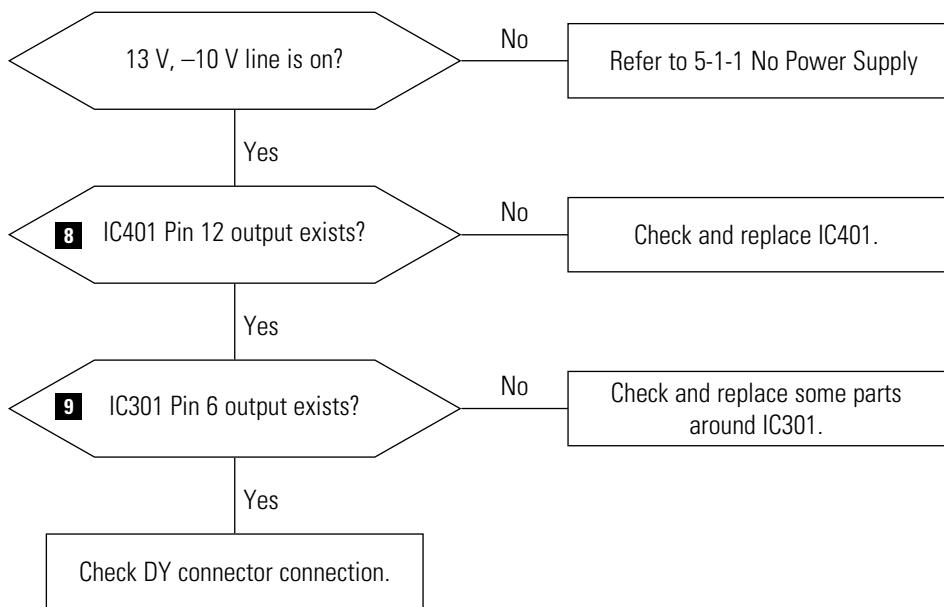
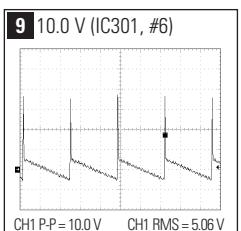
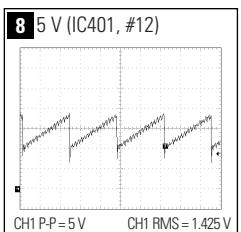
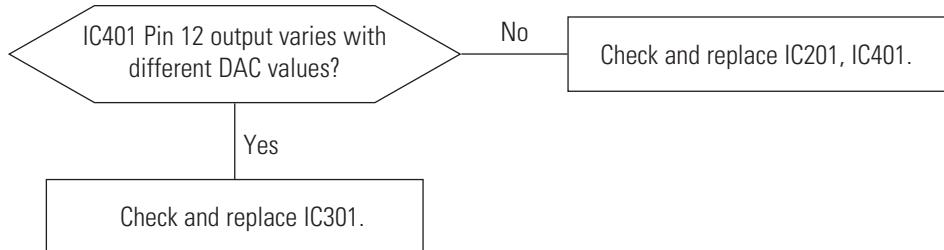


5-1-9 Para. or Pin Balance Failure

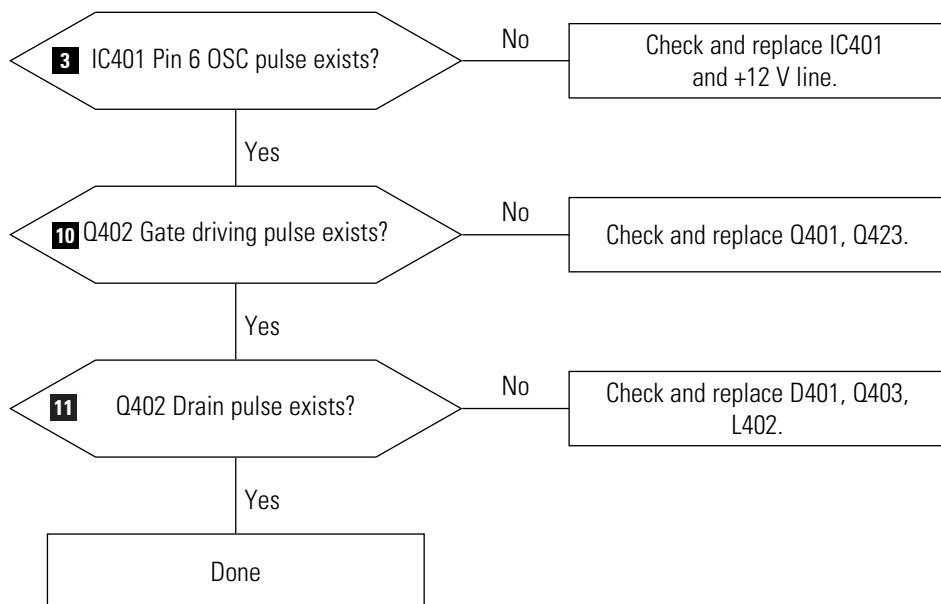


5-1-10 Tilt Failure

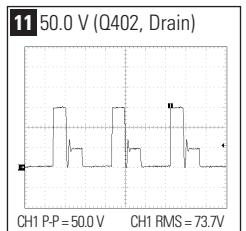
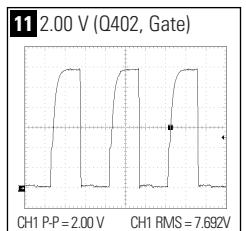
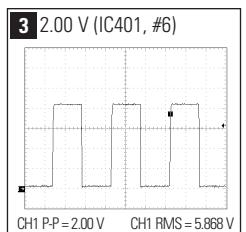


5-1-11 V Deflection Failure**WAVEFORMS****5-1-12 V Size or Pos. Variation Failure**

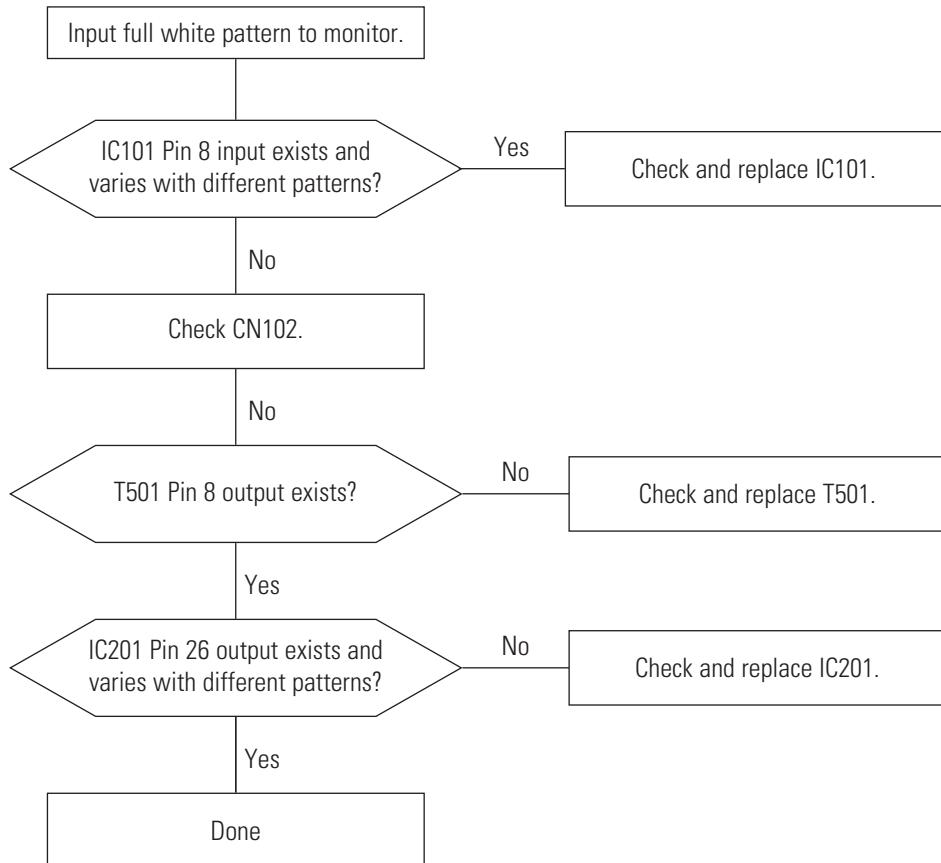
5-1-13 High Voltage Failure

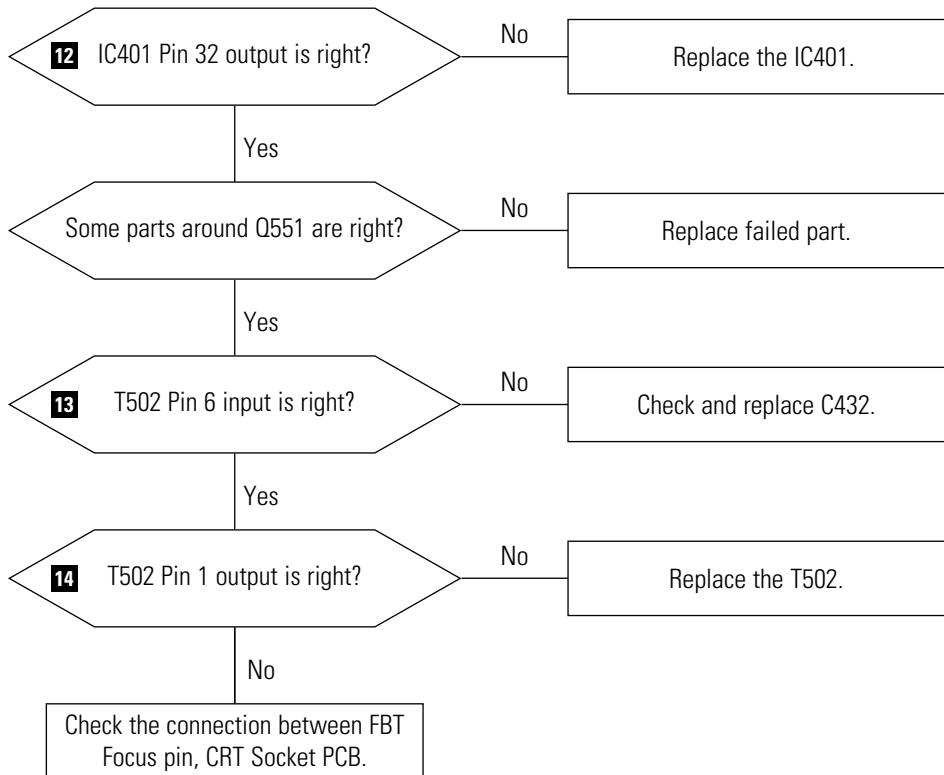
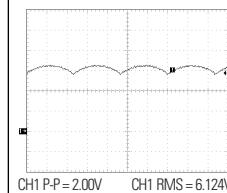
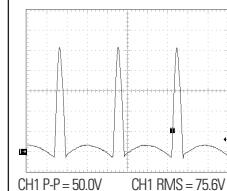
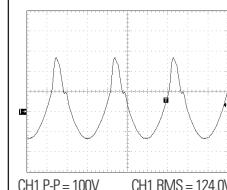


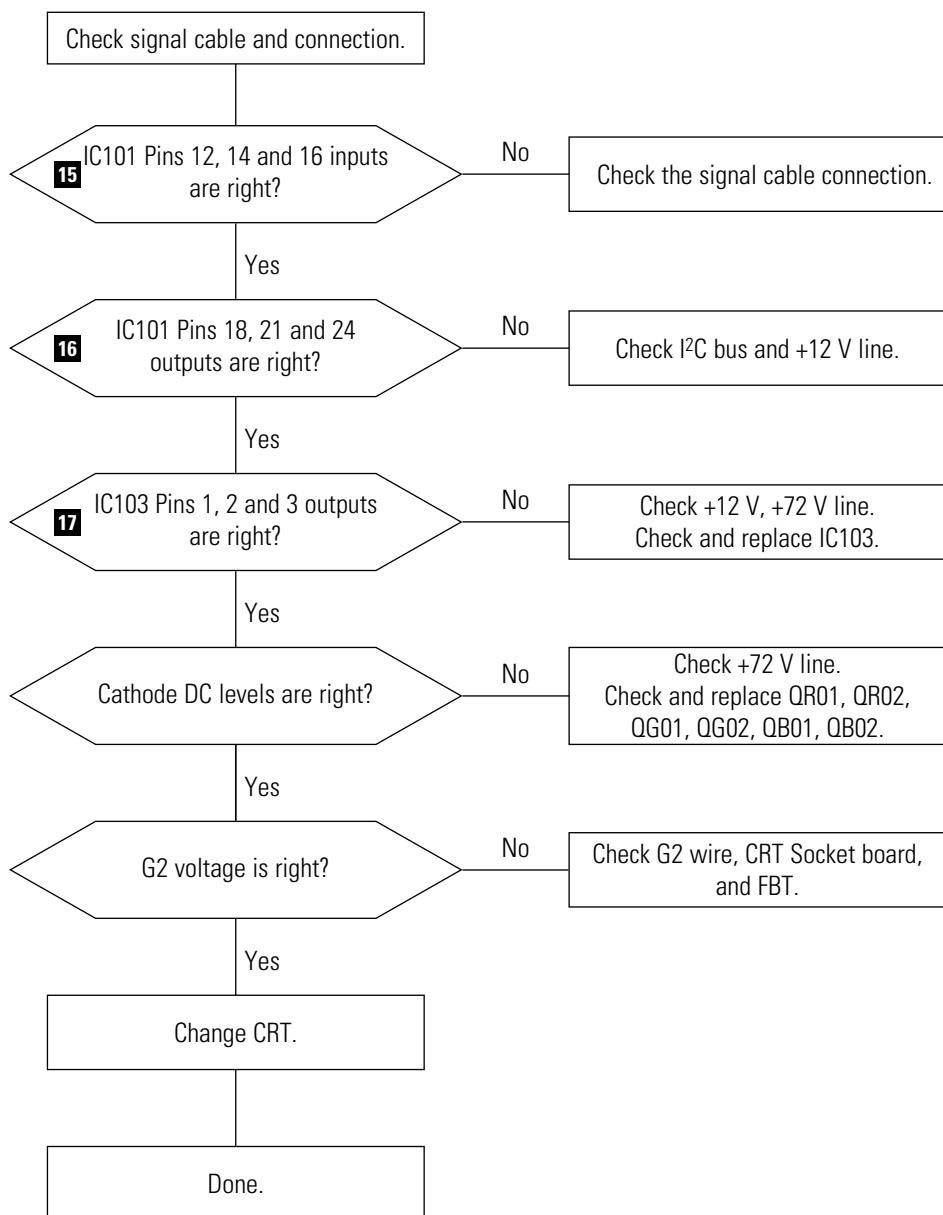
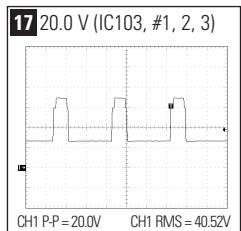
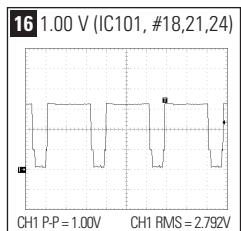
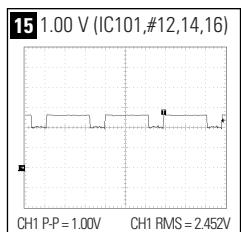
WAVEFORMS

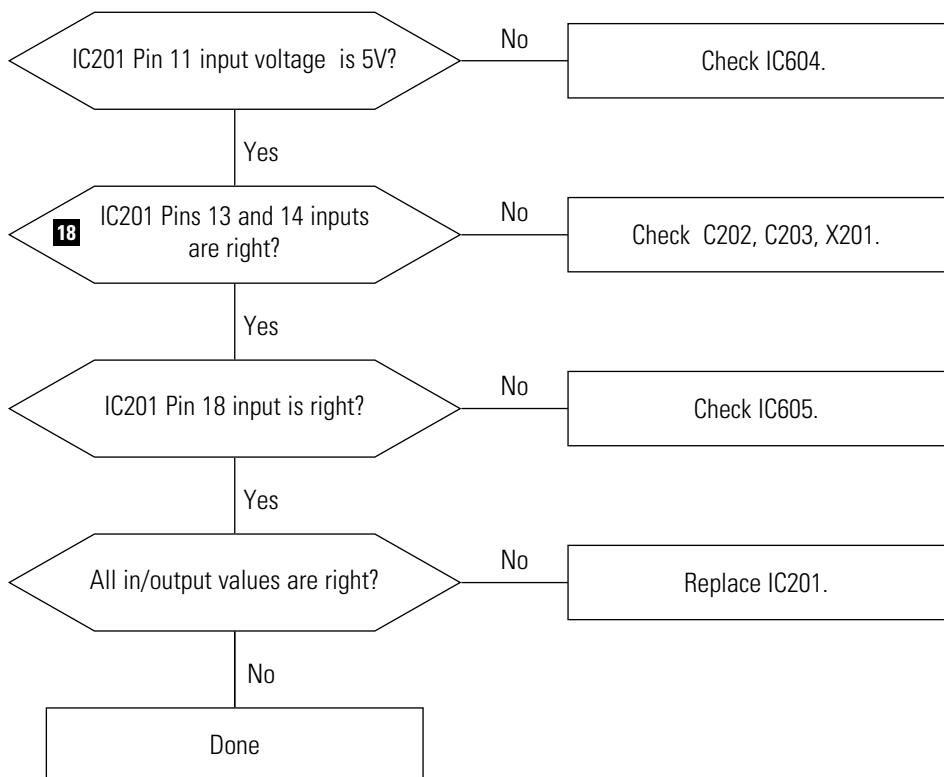
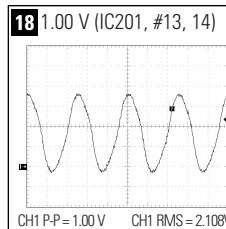


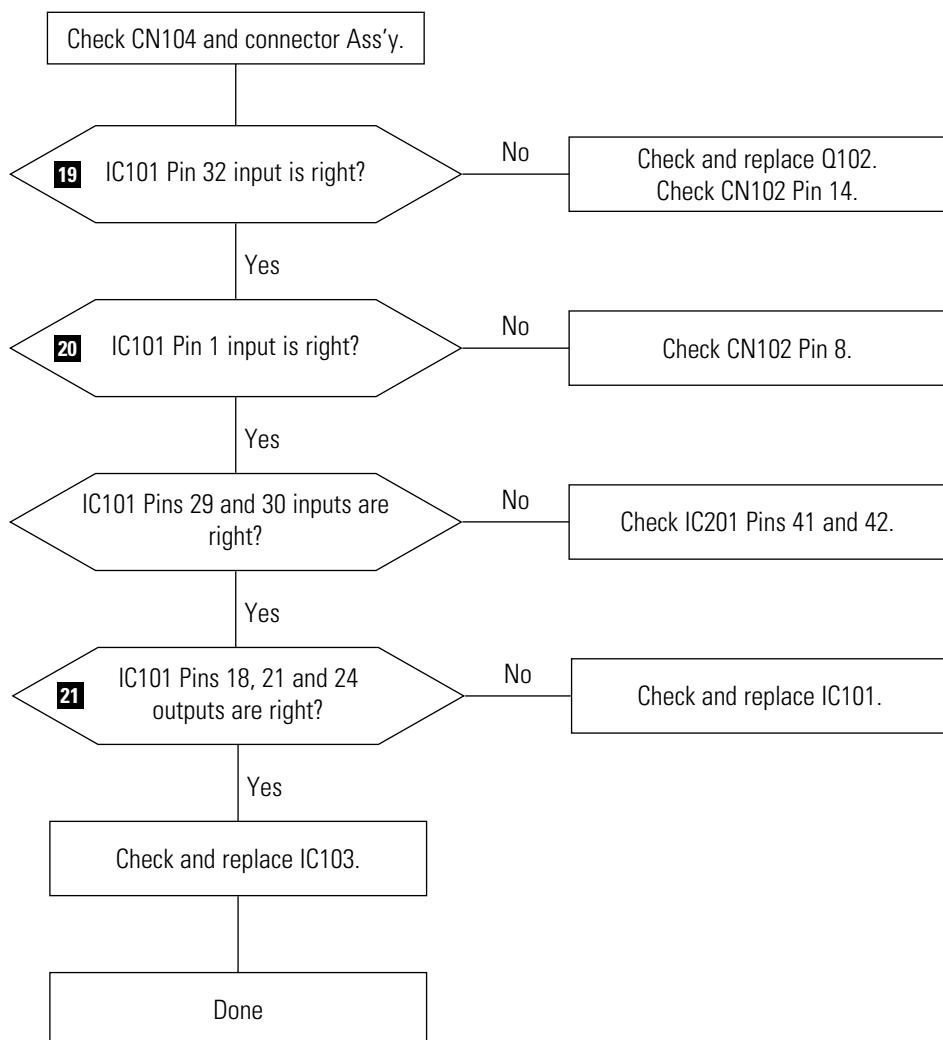
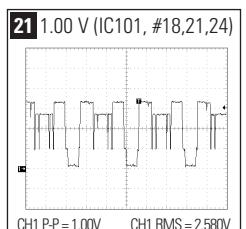
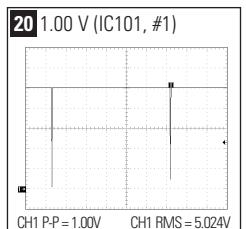
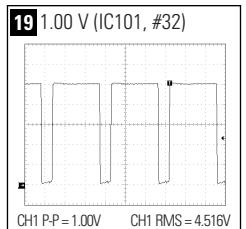
5-1-14 ABL Failure



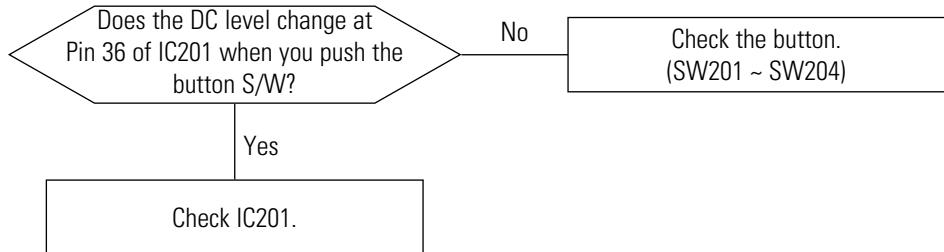
5-1-15 Dynamic Focus Failure**WAVEFORMS****12** 2.00 V (IC401, #32)**13** 50.0 V (T502, #6)**14** 100 V (T502, #1)

5-1-16 No Video**WAVEFORMS**

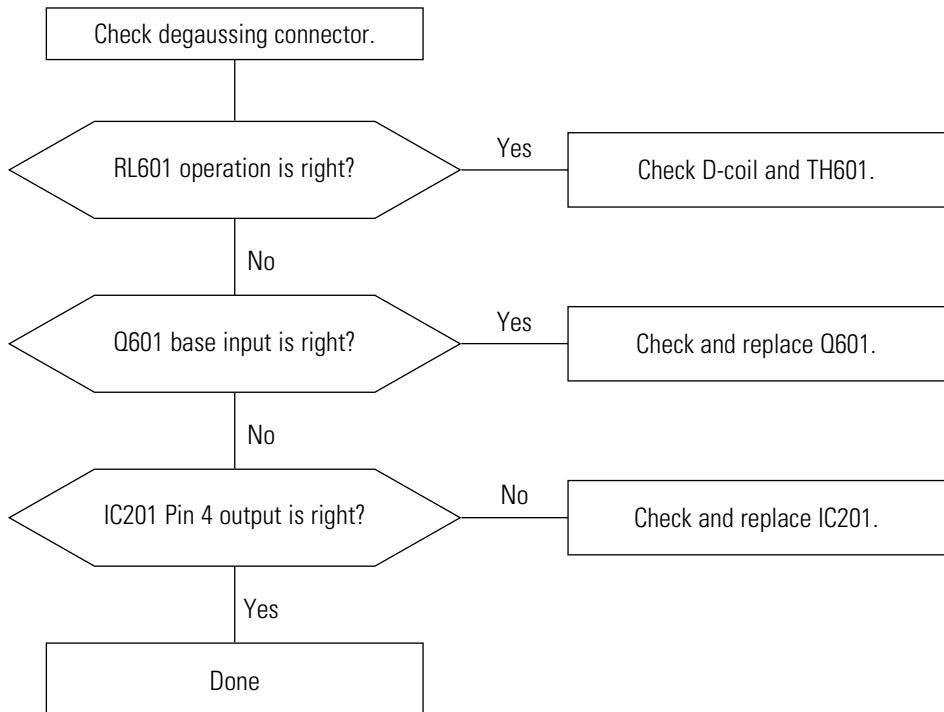
5-1-17 Micom Failure**WAVEFORMS**

5-1-18 OSD Failure**WAVEFORMS**

5-1-19 User Control Failure

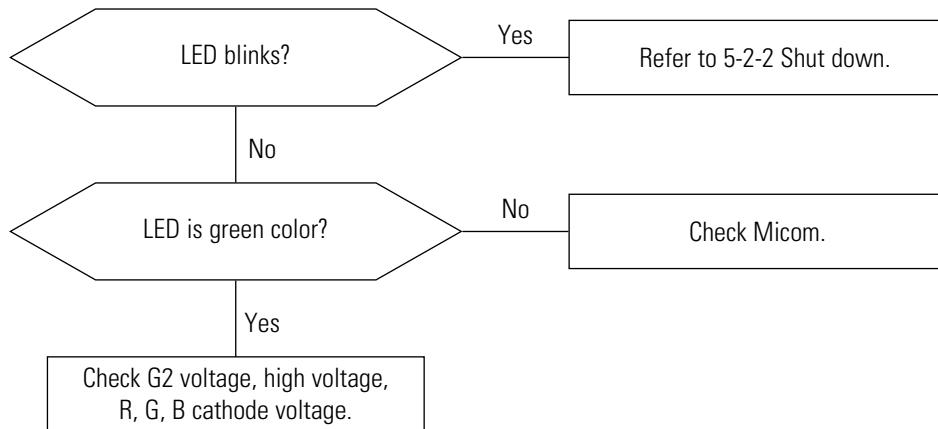


5-1-20 Degaussing Failure

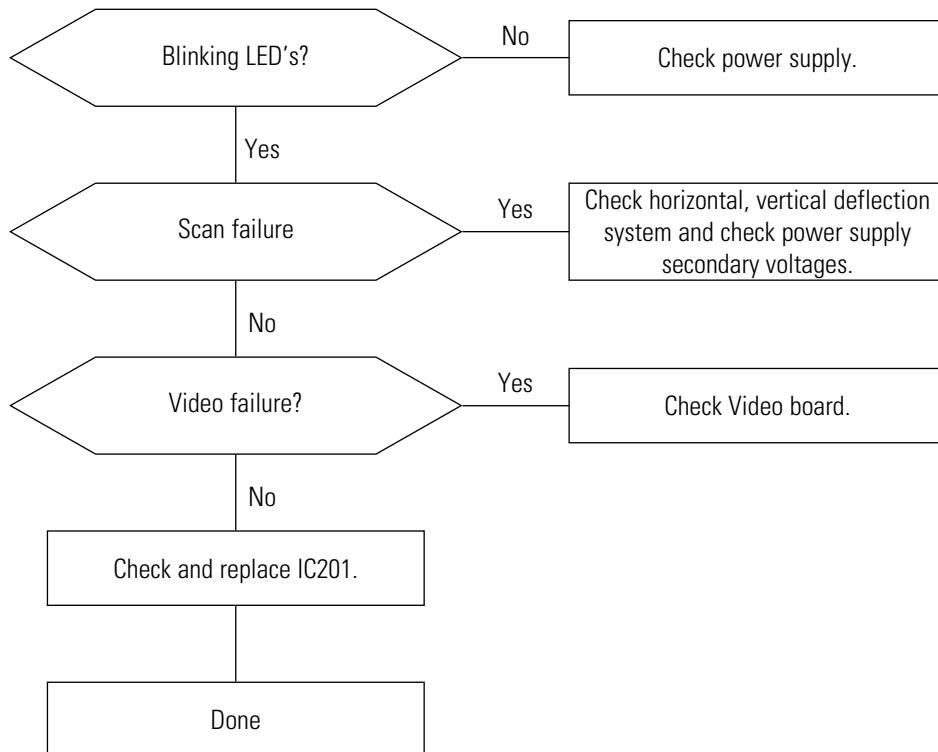


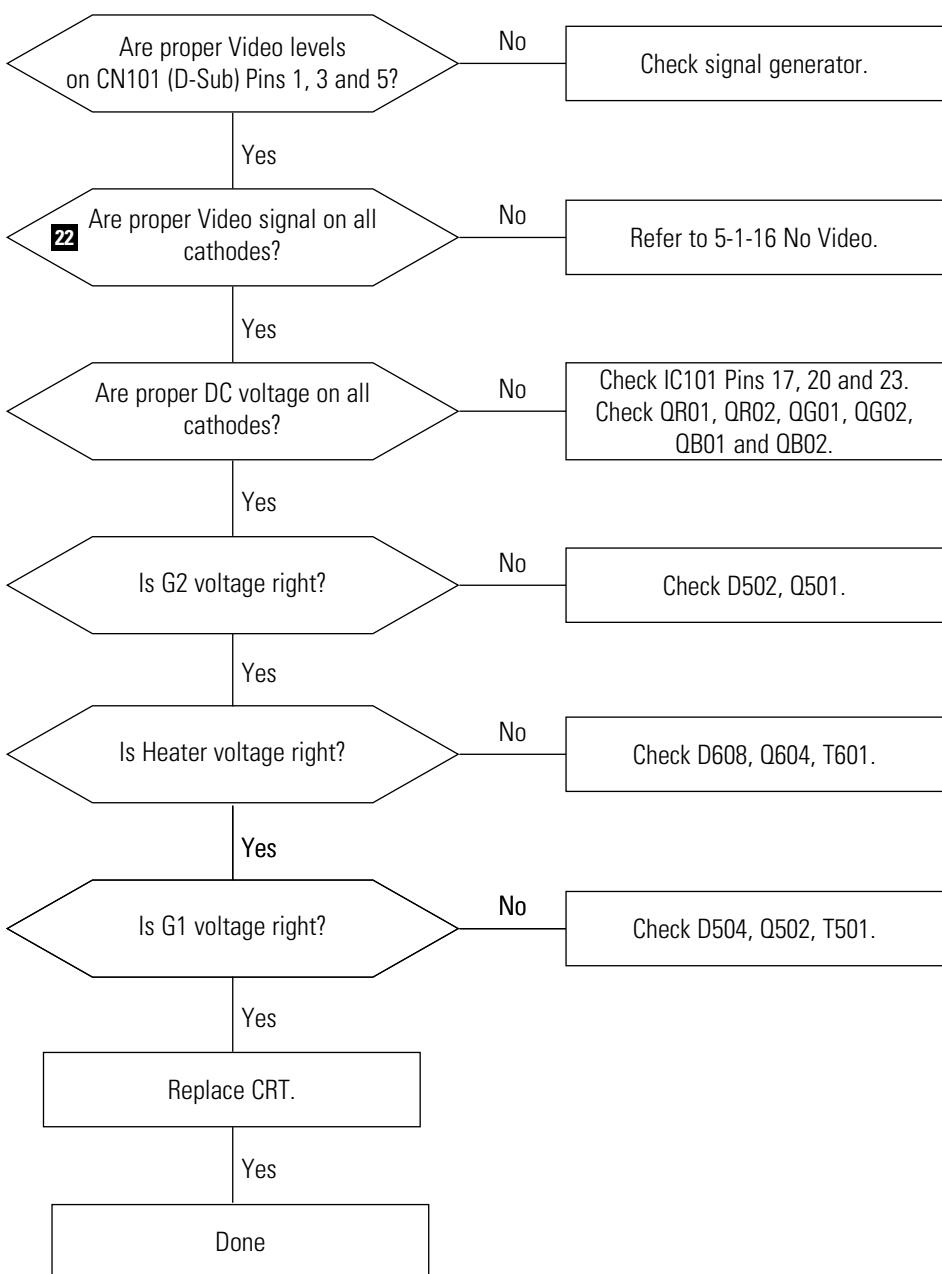
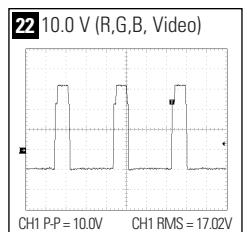
5-2 General Troubleshooting

5-2-1 No Picture

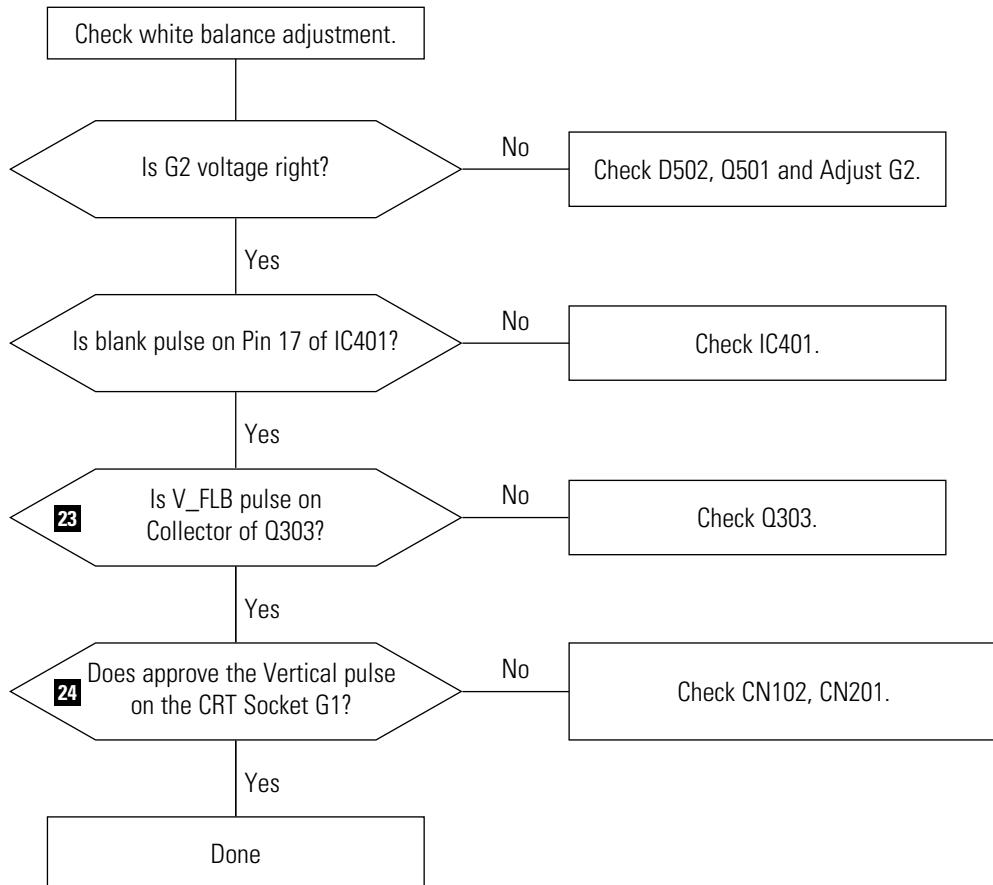


5-2-2 Shut Down

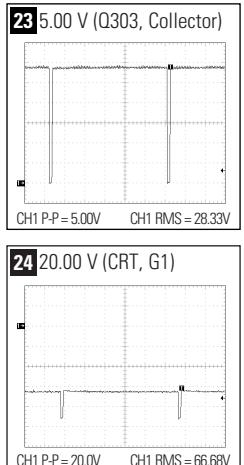


5-2-3 Missing Color**WAVEFORMS**

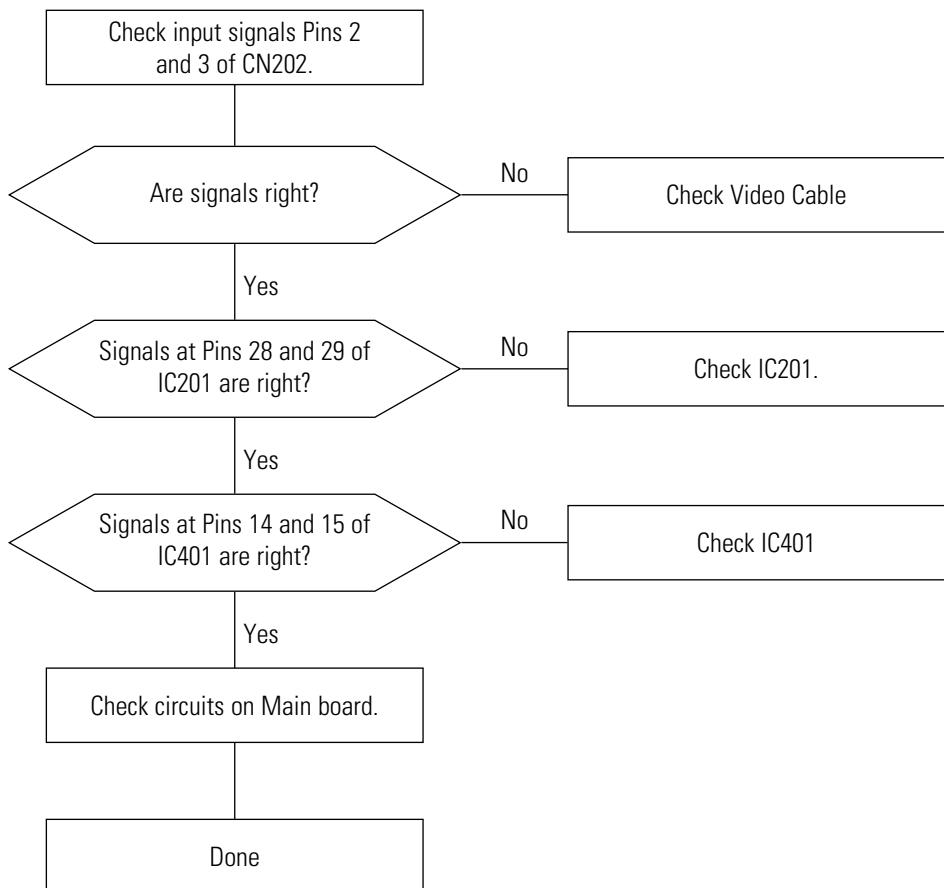
5-2-4 Visible Retrace



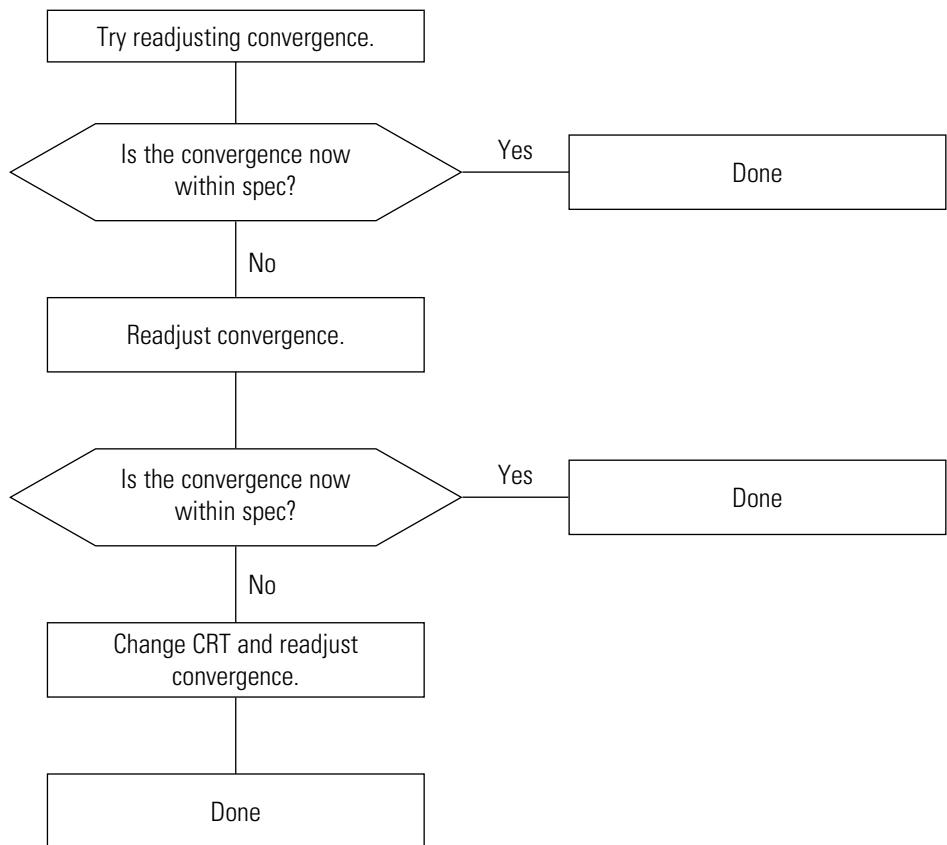
WAVEFORMS

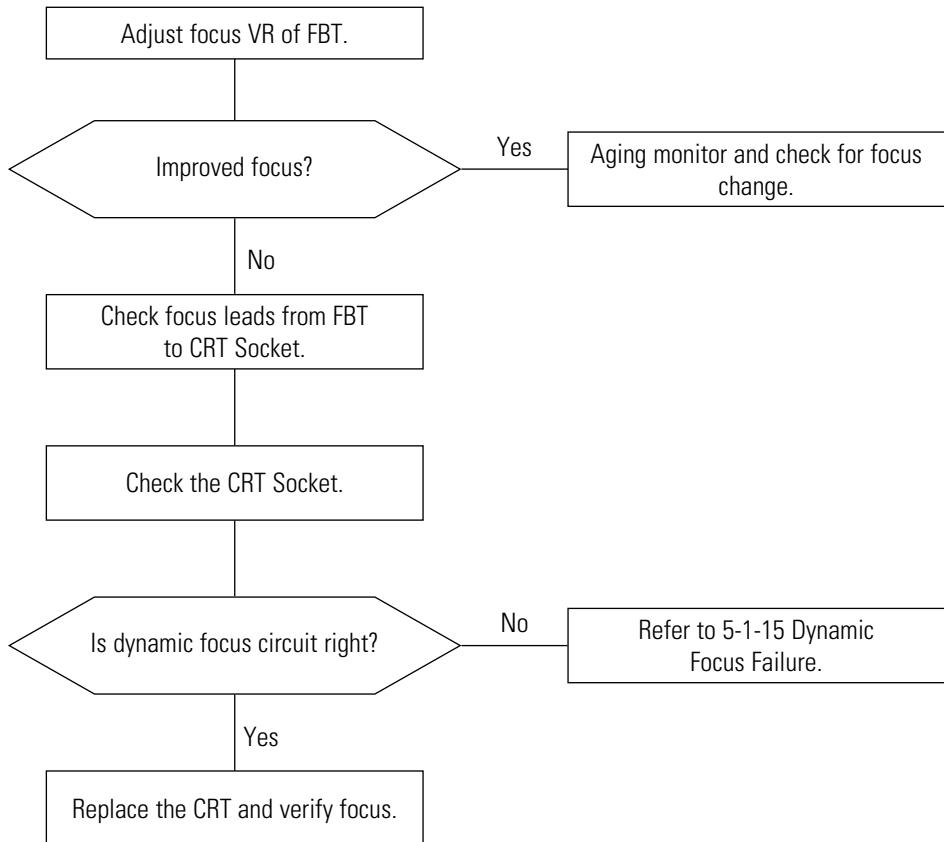
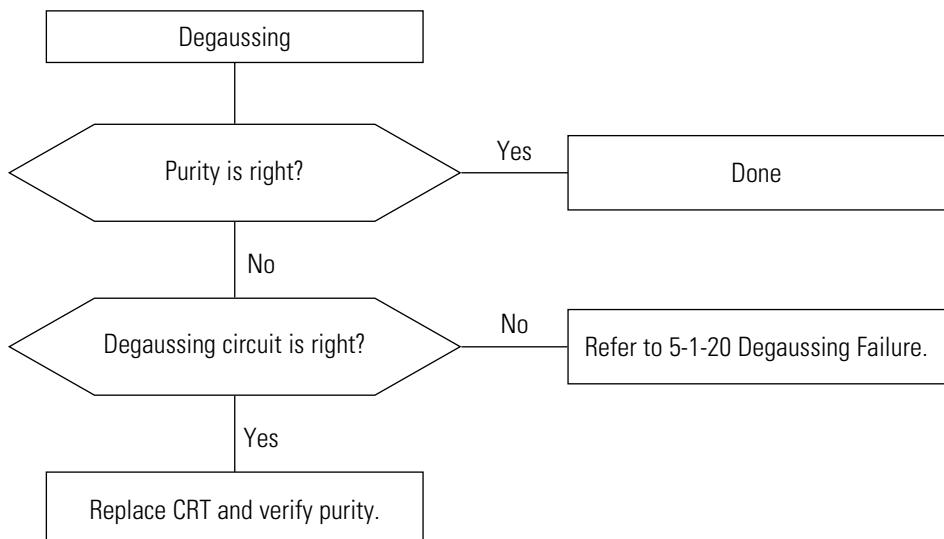


5-2-5 Unsynchronized Image



5-2-6 Misconvergence

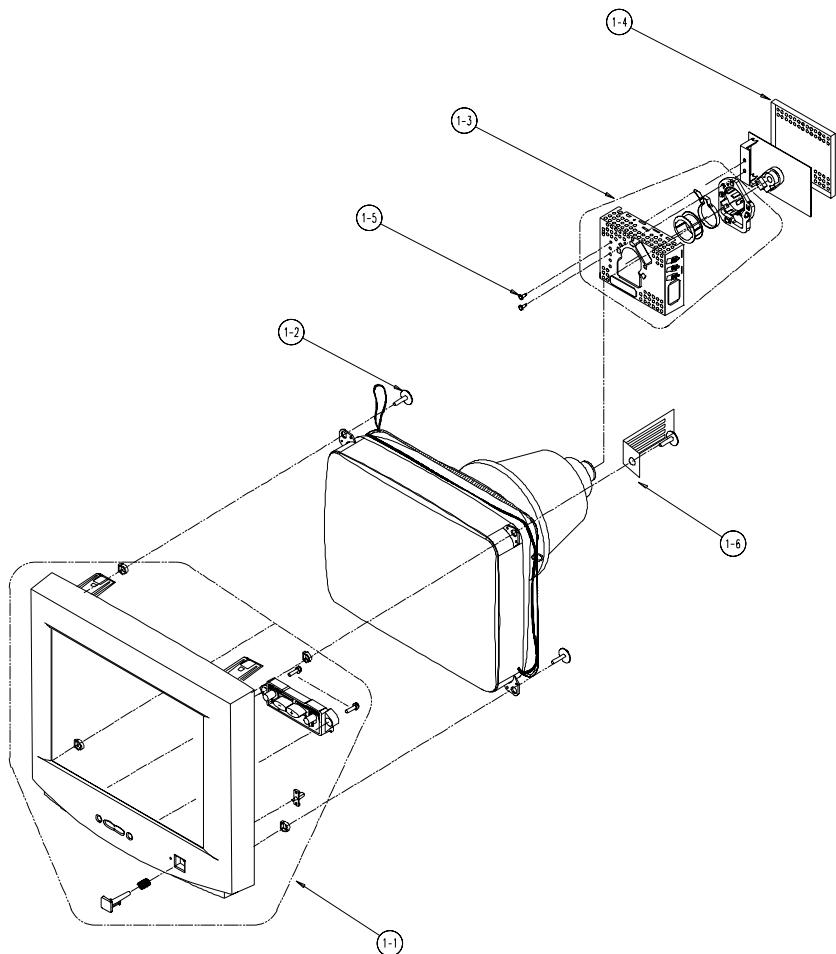


5-2-7 Poor Focus**5-2-8 Purity Failure**

6 Exploded View and Parts List

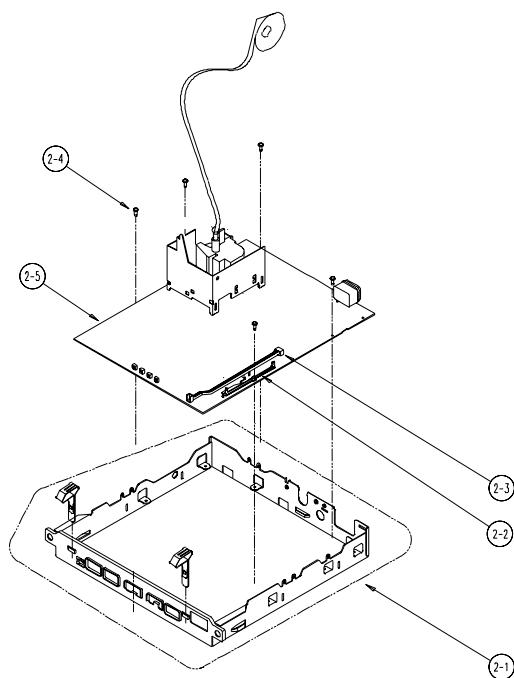
6-1 Front Cover & CRT Ass'y

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
1-1	UNIT/COVER-FRONT	BH75-00148A	DF17JS	1 EA	
1-2	SCREW-CRT/TAPTRITE	6006-001010	MPP,BH,+,D5,L25	4 EA	
1-3	UNIT/SHIELD-VIDEO	BH75-00033A	DP17L+	1 EA	
1-4	SHIELD/VIDEO-CAP	BH71-00006A	DP17L+	1 EA	
1-5	SCREW	6003-000010	BH M3X1.0	2 EA	
1-6	EARTH-PLATE	BH71-00060A	PBSJ T0.3	1 EA	



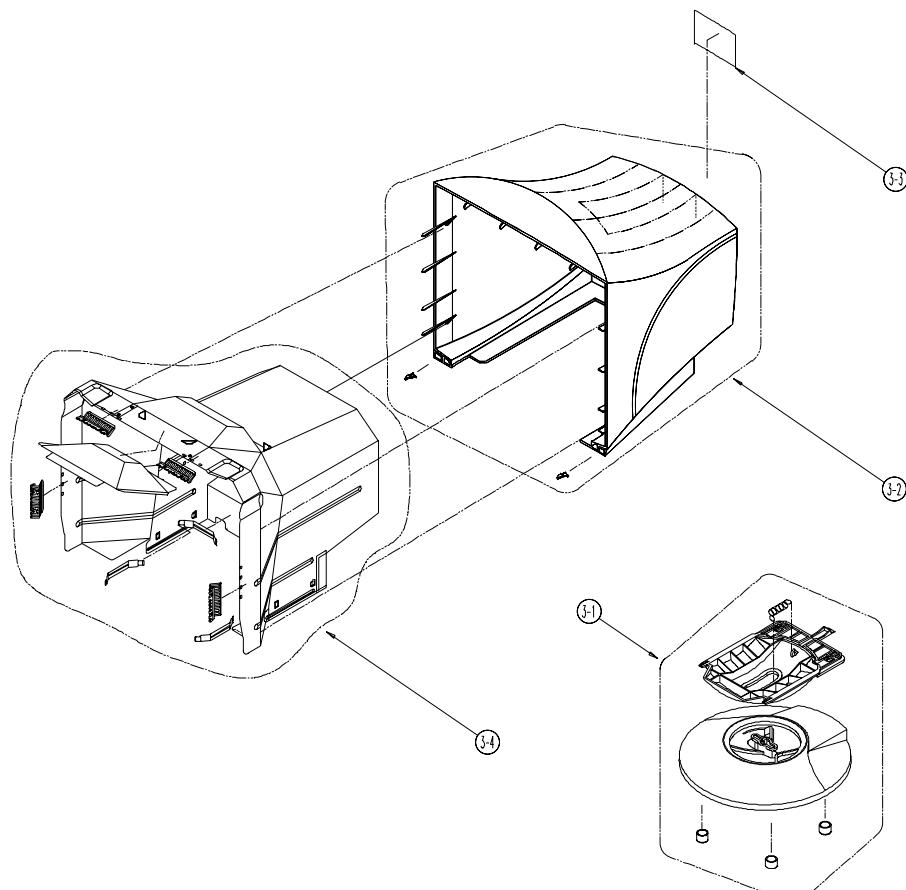
6-2 Chassis & Stand Ass'y

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
2-1	UNIT-SHIELD-BOTTOM	BH75-00031B	DF17JS/KS	1 EA	
2-2	GUIDE-POWER	BH72-00025A	PC ABS IV16	1 EA	
2-3	SHAFT-POWER	BH72-00026A	PC ABS IV16	1 EA	
2-4	SCREW	6003-000010	BH M3XL10	5 EA	
2-5	PCB		DP17LS	1 EA	



6-3 Rear Cover Ass'y

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
3-1	UNIT/STAND	BH75-00151A	DF17US/KS	1 EA	
3-2	UNIT/COVER-REAR	BH75-00035A	ABS HB IV16	1 EA	
3-3	LABEL RATING		DP17L+ PE T0,075	1 EA	
3-4	UNIT/SHIELD-COVER	BH75-00015A	DP17L+	1 EA	



7 Electrical Parts List

7-1 Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
BD301	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD401	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD402	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD403	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD555	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD601	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD602	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD603	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
C201	2401-000025	C-AL	"100uF,20%,16V,GP,TP,6.3x11,5"	
C202	2201-000389	"C-CERAMIC,DISC"	"0.022nF,5%,50V,NP0,TP,5x3,5"	
C203	2201-000389	"C-CERAMIC,DISC"	"0.022nF,5%,50V,NP0,TP,5x3,5"	
C204	2401-002075	C-AL	"4.7uF,20%,50V,GP,TP,5x11,5"	
C205	2401-000603	C-AL	"1uF,20%,50V,GP,TP,5x11,5"	
C206	2401-000050	C-AL	"10uF,20%,16V,GP,TP,5x11,2.5"	
C207	2401-002075	C-AL	"4.7uF,20%,50V,GP,TP,5x11,5"	
C209	2401-002075	C-AL	"4.7uF,20%,50V,GP,TP,5x11,5"	
C210	2401-002075	C-AL	"4.7uF,20%,50V,GP,TP,5x11,5"	
C211	2201-000146	"C-CERAMIC,DISC"	"0.1nF,5%,50V,SL,TP,5x3.5,5"	
C212	2201-000017	"C-CERAMIC,DISC"	"1nF,10%,50V,Y5P,TP,5x3.5,5"	
C213	2401-000029	C-AL	"10uF,20%,100V,GP,TP,6.3x11,5"	
C214	2401-000025	C-AL	"100uF,20%,16V,GP,TP,6.3x11,5"	
C215	2201-000146	"C-CERAMIC,DISC"	"0.1nF,5%,50V,SL,TP,5x3.5,5"	
C216	2401-000603	C-AL	"1uF,20%,50V,GP,TP,5x11,5"	
C217	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C220	2401-000025	C-AL	"100uF,20%,16V,GP,TP,6.3x11,5"	
C225	2401-002075	C-AL	"4.7uF,20%,50V,GP,TP,5x11,5"	
C301	2301-000010	"C-FILM,PEF"	"100nF,5%,100V,TP,11.5x12.5mm,5"	
C302	2305-001041	"C-FILM,MPEF"	"220nF,5%,63V,TP,7.5x4.5x13.5,5"	
C305	2401-000037	C-AL	"470uF,20%,16V,GP,TP,8x11.5,5"	
C306	2401-000856	C-AL	"220uF,20%,35V,WT,TP,10x20,5"	
C307	2305-000237	"C-FILM,MPEF"	"1uF,5%,63V,TP,7.5x15.5mm,5mm"	
C308	2301-000004	"C-FILM,PEF"	"2.2nF,5%,100V,TP,5.5X10X2.9,5m"	
C309	2202-000252	"C-CERAMIC,MLC-AXIAL"	"4.7nF,10%,50V,X7R,TP,2.5x4.3,-"	
C310	2301-000519	"C-FILM,PEF"	"3.3nF,5%,100V,TP,5.8x3x12.5,5m"	
C311	2301-001027	"C-FILM,PEF"	"15nF,10%,250V,TP,9.5x12x4.5,5m"	
C312	2401-001016	C-AL	"3.3UF,20%,50V,BP,TP,5X11,5"	
C401	2301-000312	"C-FILM,PEF"	"8.2nF,5%,100V,TP,6x12.5mm,5mm"	
C402	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
C403	2301-000148	"C-FILM,PEF"	"10nF,5%,100V,TP,7x3.2x7mm,5mm"	
C404	2301-000004	"C-FILM,PEF"	"2.2nF,5%,100V,TP,5.5X10X2.9,5m"	
C405	2201-000823	"C-CERAMIC,DISC"	"0.27nF,5%,50V,SL,TP,8x3.5,5"	
C406	2301-000013	"C-FILM,PEF"	"4.7nF,5%,100V,TP,10.5x12.5x6.5"	
C407	2401-000540	C-AL	"150uF,20%,63V,LZ,TP,10x25,5"	

Loc. No.	Code No.	Description	Specification	Remarks
C408	2201-000556	"C-CERAMIC,DISC"	"0.47nF,10%,500V,Y5P,TP,5.5x3.5"	
C409	2306-000147	"C-FILM,MPPF"	"1uF,5%,250V,BK,26x24x15,22.5mm"	
C410	2401-000037	C-AL	"470uF,20%,16V,GP,TP,8x11.5,5"	
C411	2301-000174	"C-FILM,PEF"	"15nF,5%,100V,TP,7.2x4.0x7.5mm,"	
C412	2301-000519	"C-FILM,PEF"	"3.3nF,5%,100V,TP,5.8x3x12.5,5m"	
C413	2401-001012	C-AL	"3.3UF,20%,50V,BP,TP,16X25,7.5"	
C414	2401-001334	C-AL	"470nF,20%,50V,GP,TP,5x11.2,5"	
C415	2401-001218	C-AL	"4.7uF,20%,100V,WT,TP,5x11,5"	
C416	2301-000010	"C-FILM,PEF"	"100nF,5%,100V,TP,11.5x12.5mm,5"	
C417	2301-000148	"C-FILM,PEF"	"10nF,5%,100V,TP,7x3.2x7mm,5mm"	
C419	2303-000165	"C-FILM,PPF"	"2.5nF,5%,1.6kV,TP,21x6.8x12.6mm,7.5"	
C420	2301-001305	"C-FILM,PPF"	"2.2NF,3%,1.6KV,TP,22X15.5X8.5MM,7.5"	
C421	2301-001341	"C-FILM,PPF"	"3.3nF,5%,630V,TP,17.4x10x5.4mm,7.5"	
C423	2401-000603	C-AL	"1uF,20%,50V,GP,TP,5x11,5"	
C425	2306-000131	"C-FILM,MPPF"	"150nF,5%,250V,TP,19x16x7.5,7.5"	
C426	2401-000603	C-AL	"1uF,20%,50V,GP,TP,5x11,5"	
C427	2306-000171	"C-FILM,MPPF"	"270nF,5%,250V,TP,21.5x12.5mm,7"	
C429	2401-000603	C-AL	"1uF,20%,50V,GP,TP,5x11,5"	
C430	2306-000249	"C-FILM,MPPF"	"680nF,5%,250V,TP,26x20.5x12,20"	
C431	2306-000179	"C-FILM,MPPF"	"300nF,5%,250V,TP,20x18.5x10.5,"	
C432	2305-001033	"C-FILM,MPEF"	"15nF,10%,250V,TP,13X9.0X4.5mm,"	
C433	2305-001003	"C-FILM,MPEF"	"10nF,5%,250V,TP,13x4.5x9mm,7.5"	
C434	2401-001016	C-AL	"3.3UF,20%,50V,BP,TP,5X11,5"	
C435	2201-002079	"C-CERAMIC,DISC"	"0.15nF,10%,500V,Y5P,TP,6.3x4mm,5"	
C436	2201-000672	"C-CERAMIC,DISC"	"0.82nF,10%,500V,Y5P,TP,6.5x3.5,"	
C445	2201-000019	"C-CERAMIC,DISC"	"10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5"	
C446	2201-000647	"C-CERAMIC,DISC"	"0.068nF,5%,500V,NP0,TP,8x3.5mm,5"	
C447	2201-000476	"C-CERAMIC,DISC"	"0.033nF,10%,500V,SL,TP,5.5x3.5"	
C448	2305-000428	"C-FILM,MPEF"	"47nF,5%,250V,TP,11x9x4.5,5mm"	
C450	2305-000237	"C-FILM,MPEF"	"1uF,5%,63V,TP,7.5x15.5mm,5mm"	
C501	2301-000016	"C-FILM,PEF"	"22nF,5%,100V,TP,7.2x4.5x9.0mm,"	
C502	2301-000016	"C-FILM,PEF"	"22nF,5%,100V,TP,7.2x4.5x9.0mm,"	
C503	2401-000603	C-AL	"1uF,20%,50V,GP,TP,5x11,5"	
C504	2301-000004	"C-FILM,PEF"	"2.2nF,5%,100V,TP,5.5X10X2.9.5m"	
C505	2401-000059	C-AL	"220nF,20%,50V,GP,-,5x11,5"	
C506	2201-000019	"C-CERAMIC,DISC"	"10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5"	
C507	2201-000291	"C-CERAMIC,DISC"	"1nF,10%,500V,Y5P,TP,7.5x3.5,5"	
C508	2401-002267	C-AL	"2.2uF,20%,250V,GP,TP,8x11.5,5"	
C509	2401-002267	C-AL	"2.2uF,20%,250V,GP,TP,8x11.5,5"	
C510	2301-000020	"C-FILM,PEF"	"27nF,5%,100V,TP,7.3x4x12.5mm,5"	
C511	2301-000519	"C-FILM,PEF"	"3.3nF,5%,100V,TP,5.8x3x12.5,5m"	
C512	2301-000148	"C-FILM,PEF"	"10nF,5%,100V,TP,7x3.2x7mm,5mm"	
C513	2201-000291	"C-CERAMIC,DISC"	"1nF,10%,500V,Y5P,TP,7.5x3.5,5"	
C514	2401-001334	C-AL	"470nF,20%,50V,GP,TP,5x11.2,5"	
C530	2201-000291	"C-CERAMIC,DISC"	"1nF,10%,500V,Y5P,TP,7.5x3.5,5"	
C551	2401-000050	C-AL	"10uF,20%,16V,GP,TP,5x11,2.5"	
C552	2201-000132	"C-CERAMIC,DISC"	"0.1nF,10%,500V,Y5P,TP,6.5x3.5"	

Loc. No.	Code No.	Description	Specification	Remarks
C557	2401-001643	C-AL	"0.68uF,20%,50V,GP,TP,5x11mm,5"	
C601	2301-001195	"C-FILM,MPPF"	"150nF,10%,275VAC,BK,26x16.5x7,"	
C602	2301-001195	"C-FILM,MPPF"	"150nF,10%,275VAC,BK,26x16.5x7,"	
C603	2201-000024	"C-CERAMIC,DISC"	"4.7nF,20%,250VAC,Y5U,TP,16x7,7"	
C604	2201-000024	"C-CERAMIC,DISC"	"4.7nF,20%,250VAC,Y5U,TP,16x7,7"	
C607	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C608	2401-003391	C-AL	"220uF,20%,450V,GP,BK,25x50,10"	
C609	2401-000971	C-AL	"22uF,20%,50V,WT,TP,6x11mm,5mm"	
C610	2301-000284	"C-FILM,PEF"	"47nF,5%,100V,TP,8.5x12.5mm,5mm"	
C611	2401-000613	C-AL	"1uF,20%,50V,WT,TP,5x11.5"	
C612	2401-000613	C-AL	"1uF,20%,50V,WT,TP,5x11.5"	
C613	2201-000129	"C-CERAMIC,DISC"	"0.1nF,10%,1kV,Y5P,TP,7x4.5"	
C614	2201-000019	"C-CERAMIC,DISC"	"10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5"	
C615	2201-000291	"C-CERAMIC,DISC"	"1nF,10%,500V,Y5P,TP,7.5x3.5,5"	
C616	2201-000023	"C-CERAMIC,DISC"	"2.2nF,20%,125V,Y5U,TP,11x7.5"	
C617	2201-000023	"C-CERAMIC,DISC"	"2.2nF,20%,125V,Y5U,TP,11x7.5"	
C618	2401-000039	C-AL	"1000uF,20%,16V,GP,TP,10x16,5"	
C619	2201-000469	"C-CERAMIC,DISC"	"0.33nF,10%,500V,Y5P,TP,5.5x3.5"	
C620	2401-000540	C-AL	"150uF,20%,63V,LZ,TP,10x25,5"	
C621	2401-001585	C-AL	"47uF,20%,50V,WT,TP,8x11.5,5"	
C622	2401-000039	C-AL	"1000uF,20%,16V,GP,TP,10x16,5"	
C623	2401-000039	C-AL	"1000uF,20%,16V,GP,TP,10x16,5"	
C624	2201-000210	"C-CERAMIC,DISC"	"0.12NF,10%,1KV,Y5P,TP,6.3X4MM,5"	
C625	2305-001041	"C-FILM,MPEF"	"220nF,5%,63V,TP,7.5x4.5x13.5,5"	
C626	2401-000037	C-AL	"470uF,20%,16V,GP,TP,8x11.5,5"	
C627	2401-000142	C-AL	"1000uF,20%,16V,WT,TP,10x20,5"	
C630	2401-001561	C-AL	"47uF,20%,35V,WT,TP,8x11.5,5"	
C631	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C635	2201-000019	"C-CERAMIC,DISC"	"10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5"	
CIS	BH39-00014A	CBF-HARNESS	"1P,280MM,RED,UL1032,AWG22,YFH800-1,BS201R"	
CIS	BH39-00145A	CBF SIGNAL	"ATT,1500MM,15P/6P,7P,IVORY(IV01),-,D-SUB/MALE"	
CIS	BH68-00001A	LABEL/MARK-CDT	"ART-PAPER 100G,-,WHT,BLK,-,ALL,CDT"	
CIS	BH72-00025A	GUIDE-POWER	"CDA4507,ABS+PC,5V,IV16,-,-"	
CIS	BH72-00026A	SHAFT-POWER	"CDA4507,ABS+PC,5V,IV16,-,-"	
CIS	BH72-00078A	SHEET-LMF	"DP17L,AL+PC,-,0.5,-"	
CIS	BH73-60304C	RUBBER-SUPPORT	"DP15LT,CR V0,GRAY,-,14*7*10,-,-"	
CIS	BH75-00031B	UNIT/FRAME-BOTTOM	"DF17JS,SECC T1.0,-,-,-"	
CIS	BH71-00008A	SHIELD-BOTTOM	"CDA4507,SECC ,T1.0,-,-"	
CIS	BH71-00059A	EARTH-PLATE/FRONT	"DF17JS,STS 301,T0.15,-,-"	
CIS	BH46-00001P	"MICOM-S/W,DF17KS"	"DP-FLAT(70KHz),-,,-"	
CIS	0205-001027	OIL-SILICON	"G746,-,-"	
CIS	1204-001508	IC-VERTICAL DEF.	"KA2142,SIP,10P,-,PLASTIC,35V,15W,-20TO+70C,ST,VERTICAL DEFLECTION"	
CIS	6006-001008	SCREW-ASS'Y MACH	"WSP,BH,+,M3,L10,ZPC(YEL),SWRCH"	
CIS	6021-000118	NUT-HEXAGON	"1C,M3,ZPC(YEL),SM20C"	
CIS	BH62-00003A	HEAT/SINK-V.IC	"-,T1,-,A1050S,DA/DB"	
CIS	BH13-00004A	IC-HYBRID	"-,DP104C,TO-220-5L,5P,POWER SWITCH,-,-"	
CIS	BH61-00004A	SPRING-TR	"CDA,CDB,SUS304,T0.5,-,-,-"	

Loc. No.	Code No.	Description	Specification	Remarks
CIS	BH62-00004A	HEAT/SINK-POWER	"-,T1,-,A1050S,DA/DB"	
CIS	BH62-20001B	RUBBER	"CSQ4357,W25*L20*T0.45,-,-,-"	
CIS	0205-001027	OIL-SILICON	"G746,-,-"	
CIS	0505-001309	FET-SILICON	"IRF630,N,200V,10A,0.40HM,100W,TO-220"	
CIS	6006-001008	SCREW-ASS'Y MACH	"WSP,BH,+,M3,L10,ZPC(YEL),SWRCH"	
CIS	6021-000118	NUT-HEXAGON	"1C,M3,ZPC(YEL),SM20C"	
CIS	BH62-30024A	HEAT/SINK-TR	"SPC,T1,SN,CFX1577L"	
CIS	0205-001027	OIL-SILICON	"G746,-,-"	
CIS	0402-001255	DIODE-RECTIFIER	"DTV56F,1.5KV,10A,TO-220AC,BK"	
CIS	0502-000465	TR-POWER	"KTD2058-Y,NPN,25W,TO-220IS,ST,"	
CIS	0502-001170	TR-POWER	"2SC5440,NPN,60000mW,TO-3E,ST,-8"	
CIS	BH61-00004A	SPRING-TR	"CDA,CDB,SUS304,T0.5,-,-,-"	
CIS	BH61-70003A	SPRING	"CVT4857,STS304-W1/2H,T0.5,W3.8"	
CIS	BH62-00015A	HEAT SINK-FBT	"A1050S,T1.0,T1.0,-,-"	
CIS	0205-001027	OIL-SILICON	"G746,-,-"	
CIS	0505-001181	FET-SILICON	"IRF634A,N,250V,8.1A,450mohm,74"	
CIS	BH61-00004A	SPRING-TR	"CDA,CDB,SUS304,T0.5,-,-,-"	
CIS	BH62-00016A	HEAT SINK-TR	"A1050S,T1.0,-,DP17M0"	
CN201	3711-003895	CONNECTOR-HEADER	"BOX,13P,1R,2mm,STRAIGHT,SN"	
CN202	3711-003873	CONNECTOR-HEADER	"BOX,7P,1R,2mm,STRAIGHT,SN"	
CN304	3711-000197	CONNECTOR-HEADER	"1WALL,3P,1R,2.5mm,STRAIGHT,SN"	
CN403	3711-003989	CONNECTOR-HEADER	"NOWALL,4P,1R,8mm,STRAIGHT,SN"	
CN501	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
CN601	3721-001028	PLUG-AC POWER	"3P,-,-,NI"	
CN603	3711-000217	CONNECTOR-HEADER	"1WALL,3P,1R,3.96mm,STRAIGHT,SN"	
D301	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D401	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D402	0402-000006	DIODE-RECTIFIER	"1N4007GP,1000V,1A,DO-41,TP"	
D403	0402-000006	DIODE-RECTIFIER	"1N4007GP,1000V,1A,DO-41,TP"	
D404	0402-000006	DIODE-RECTIFIER	"1N4007GP,1000V,1A,DO-41,TP"	
D405	0402-000208	DIODE-RECTIFIER	"EK-04,40V,1.5A,DO-41"	
D406	0402-001025	DIODE-RECTIFIER	"ERD07-15,1.5KV,1.5A,-,TP"	
D407	0402-001118	DIODE-RECTIFIER	"UF1G,400V,1.2A,DO-204AL,TP"	
D409	0402-001295	DIODE-RECTIFIER	"GUR460L-5700,600V,4A,DO-201AD,BK"	
D410	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	
D411	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	
D412	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	
D413	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	
D420	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D421	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D422	0401-000004	DIODE-SWITCHING	"1SS244,250V,200mA,DO-34,TP"	
D431	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D432	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	
D501	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D502	0402-000017	DIODE-RECTIFIER	"RGPO2-12,1200V,0.5A,DO-204AL,T"	
D503	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	
D504	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	

Loc. No.	Code No.	Description	Specification	Remarks
D505	0401-000004	DIODE-SWITCHING	"1SS244,250V,200mA,DO-34,TP"	
D506	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	
D507	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D508	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D509	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D510	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D511	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D512	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D513	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D515	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D516	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D601	0402-000103	DIODE-BRIDGE	"D2SBA60,600V,1.5A,SIP-4,ST"	
D602	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D604	0402-000012	DIODE-RECTIFIER	"UF4007,1KV,1A,DO-41,TP"	
D605	0402-000012	DIODE-RECTIFIER	"UF4007,1KV,1A,DO-41,TP"	
D606	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	
D607	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D608	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D609	0402-000005	DIODE-RECTIFIER	"31DF4,400V,3A,DO-201AD,BK"	
D610	0402-000012	DIODE-RECTIFIER	"UF4007,1KV,1A,DO-41,TP"	
D611	0402-001118	DIODE-RECTIFIER	"UF1G,400V,1.2A,DO-204AL,TP"	
D612	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D614	0402-000546	DIODE-RECTIFIER	"TVR10G,400V,1.0A,DO-41,TP"	
D615	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D616	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
D617	0402-001039	DIODE-RECTIFIER	"SB020,20V,600mA,MPG06,TP"	
EY301	6042-000001	EYELET	"ID2.0D2.7,L3.1,SN,BSS3-E/EH"	
EY302	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY401	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	
EY501	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY502	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY503	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY504	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	
EY505	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	
EY506	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	
EY507	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	
EY508	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	
EY509	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	
EY601	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY602	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY603	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY604	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY605	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY606	6042-000001	EYELET	"ID2.2,0D2.7,L3.1,SN,BSS3-E/EH"	
EY607	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	
EY608	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	
EY609	6042-000002	EYELET	"ID1.5,0D2,L3.1,SN,BSS3-E/EH"	

Loc. No.	Code No.	Description	Specification	Remarks
EY610	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
FBT	6502-000001	CABLE CLAMP	"DAWH-5NB,D15,L35,NTR,NYLON66"	
FH1	3602-000001	FUSE-CLIP	"-,,30mohm"	
FUSE	3601-000004	FUSE-CARTRIDGE	"250V,3.15A,SLOW-BLOW,CERAMIC,5x20mm"	
GT501	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
GT603	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
GT604	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
HS301	BH99-00002A	"ASSY,HEAT/SINK"	"H/S V.IC,SCREW+NUT,KA2142,--,OIL SILICON,--,,"	
HS401	BH99-00006A	"ASSY,HEAT/SINK"	"H/S,SCREW+NUT,IRF630,--,OIL SILICON,--,,"	
HS402	BH99-00010A	"ASSY,HEAT/SINK"	"HS TR,SPRING,IRF634A,--,OIL SILICON,--,,"	
HS501	BH99-00009B	ASSY HEAT/SINK	"HS FBT,SPRING,2SC5440,DTV56F,KTD2058,OIL SILICON,--,,"	
HS601	BH99-00003A	"ASSY,HEAT/SINK"	"H/S POWER,SPRING,DP104,--,RUBBER,--,,"	
IC201	0903-001166	IC-MICROCONTROLLER	"88P6232,8BIT,DIP,42P,600MIL,12MHZ,ST,CMOS,PLASTIC,5V,--,40TO+85C,464BYTE,32K,8BI"	
IC201_SOCK	3704-001071	SOCKET-IC	"42P,DIP,SN,1.778mm"	
IC202	1103-001149	IC-EEPROM	"24C041,4KBIT,DIP,8P,300MIL,10MS,5V,10%,PLASTIC,-25TO+70C,10UA,CMOS,ST"	
IC401	1204-001509	IC-HOR./VER.PROCESSO	"TDA4859,DIP,32P,400MIL,PLASTIC,16V,--,20TO+70CC,ST,H/V DEF. PROCESSOR"	
IC602	1203-000165	IC-POSI.ADJUST REG.	"78R12,TO-220,3P,--,12V,--,0to+"	
IC603	1201-000229	IC-OP AMP	"324,DIP,14P,300MIL,QUAD,100V/m"	
IC604	1203-000001	IC-POSI.FIXED REG.	"7805,TO-220,3P,--,PLASTIC,4.8/5"	
IC605	1203-000495	IC-RESET	"7045,TO-92,3P,--,PLASTIC,4.3/4."	
JP1	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP10	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP11	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP13	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP14	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP15	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP16	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP17	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP18	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP19	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP2	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP20	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP22	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP23	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP24	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP25	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP26	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP27	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP28	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP29	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP3	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP30	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP31	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP32	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP33	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP34	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP35	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	

Loc. No.	Code No.	Description	Specification	Remarks
JP36	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP37	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP38	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP39	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP4	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP40	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP41	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP42	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP43	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP44	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP45	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP46	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP47	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP48	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP49	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP5	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP50	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP51	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP52	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP53	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP54	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP55	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP56	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP57	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP58	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP59	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP6	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP60	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP61	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP62	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP63	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP64	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP65	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP67	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP68	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP7	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP70	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP71	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP72	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP8	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JP9	BH39-40305U	CBF HARNESS	”,52MM,-,-,AWG22(0.6PI),-,,-,-”	
JW1	BH39-40306C	CBF-HARNESS	”,60MM,BLK,1015,AWG22,-,-,-,-”	
JW2	BH39-40306C	CBF-HARNESS	”,60MM,BLK,1015,AWG22,-,-,-,-”	
JW3	BH39-40305Y	CBF-HARNESS	”,110MM,BLK,1015,AWG22,-,-,-,-”	
JW4	BH39-40306C	CBF-HARNESS	”,60MM,BLK,1015,AWG22,-,-,-,-”	
L401	BH27-00005A	COIL-CHOKE	”120UH,10%,AR-06*30,BULK,-,-”	

Loc. No.	Code No.	Description	Specification	Remarks
L402	BH27-00022A	COIL-CHOKE	"100UH,+/-10%,DR1523(C:9.8),BK,-,-"	
L403	BH27-20342U	COIL-CHOKE	"7.1MH,10%,DR8*11,BULK,-,-"	
L601	BH27-00007A	COIL-LINE FILTER	"25MH MIN, -,SQE 2424,BULK,-,-"	
MP1.1	BH41-00063A	PCB-MAIN	"DF17JS,FR-1,1 LAYER,247*247*1.6T,1.6T"	
OP201	0601-001147	LED	"ROUND,GRN,4.75mm,565nm"	
Q301	0501-000586	TR-SMALL SIGNAL	"KSC945,NPN,250mW,TO-92,TP,120,-"	
Q302	0501-000303	TR-SMALL SIGNAL	"KSA733,PNP,250mW,TO-92,TP,120,-"	
Q303	0501-000586	TR-SMALL SIGNAL	"KSC945,NPN,250mW,TO-92,TP,120,-"	
Q401	0501-000122	TR-SMALL SIGNAL	"2N3904,NPN,625mW,TO-92,TP,100,-"	
Q403	0505-001247	FET-SILICON	"IRFU210A,N,200V,2.7A,1.5ohm,26"	
Q405	0501-000303	TR-SMALL SIGNAL	"KSA733,PNP,250mW,TO-92,TP,120,-"	
Q406	0501-000303	TR-SMALL SIGNAL	"KSA733,PNP,250mW,TO-92,TP,120,-"	
Q407	0501-000140	TR-SMALL SIGNAL	"2N5551,NPN,625mW,TO-92,-,80-25"	
Q409	0505-001309	FET-SILICON	"IRF630,N,200V,10A,0.40OHM,100W,TO-220"	
Q410	0505-001309	FET-SILICON	"IRF630,N,200V,10A,0.40OHM,100W,TO-220"	
Q412	0501-000404	TR-SMALL SIGNAL	"KSD1616-Y,NPN,750mW,TO-92,TP,1"	
Q413	0501-000321	TR-SMALL SIGNAL	"KSB1116-Y,PNP,0.75W,TO-92,-,13"	
Q414	0501-000586	TR-SMALL SIGNAL	"KSC945,NPN,250mW,TO-92,TP,120,-"	
Q415	0501-000586	TR-SMALL SIGNAL	"KSC945,NPN,250mW,TO-92,TP,120,-"	
Q416	0501-000586	TR-SMALL SIGNAL	"KSC945,NPN,250mW,TO-92,TP,120,-"	
Q423	0501-000303	TR-SMALL SIGNAL	"KSA733,PNP,250mW,TO-92,TP,120,-"	
Q501	0501-000416	TR-SMALL SIGNAL	"KSP92,PNP,625mW,TO-92,TP,25"	
Q502	0501-000143	TR-SMALL SIGNAL	"2N6520,PNP,625mW,TO-92,-,30-20"	
Q503	0501-000303	TR-SMALL SIGNAL	"KSA733,PNP,250mW,TO-92,TP,120,-"	
Q551	0501-000413	TR-SMALL SIGNAL	"KSP44,NPN,625mW,TO-92,-,50-200"	
Q601	0501-000586	TR-SMALL SIGNAL	"KSC945,NPN,250mW,TO-92,TP,120,-"	
Q602	0501-000122	TR-SMALL SIGNAL	"2N3904,NPN,625mW,TO-92,TP,100,-"	
Q604	0501-000404	TR-SMALL SIGNAL	"KSD1616-Y,NPN,750mW,TO-92,TP,1"	
Q608	0501-000010	TR-SMALL SIGNAL	"KSC1008,PNP,800mW,TO-92,TP,120"	
Q609	0501-002228	TR-SMALL SIGNAL	"KTA1281,PNP,1000MW,TO-92L,TP,120-240"	
Q610	0501-000586	TR-SMALL SIGNAL	"KSC945,NPN,250mW,TO-92,TP,120,-"	
R200	2001-000869	R-CARBON	"560HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R201	2001-000786	R-CARBON	"47KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R202	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R203	2001-000734	R-CARBON	"4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R204	2001-000734	R-CARBON	"4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R206	2001-000515	R-CARBON	"2200HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R207	2001-000869	R-CARBON	"560HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R208	2001-000869	R-CARBON	"560HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R209	2001-000734	R-CARBON	"4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R210	2001-000472	R-CARBON	"2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R211	2001-000878	R-CARBON	"6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R212	2001-000660	R-CARBON	"33KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R213	2001-000429	R-CARBON	"1KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R214	2001-000429	R-CARBON	"1KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R215	2001-000281	R-CARBON	"1000HM,5%,1/8W,AA,TP,1.8X3.2MM"	

Loc. No.	Code No.	Description	Specification	Remarks
R216	2001-000281	R-CARBON	"100OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R217	2001-000281	R-CARBON	"100OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R218	2001-000281	R-CARBON	"100OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R220	2001-000281	R-CARBON	"100OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R221	2001-000734	R-CARBON	"4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R222	2001-000734	R-CARBON	"4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R223	2001-000038	R-CARBON	"390OHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R224	2001-000869	R-CARBON	"560HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R225	2001-000869	R-CARBON	"560HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R229	2001-000281	R-CARBON	"100OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R230	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R231	2001-000241	R-CARBON	"1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R232	2001-000812	R-CARBON	"5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R233	2001-000331	R-CARBON	"12KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R234	2001-000563	R-CARBON	"27KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R235	2001-000472	R-CARBON	"2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R236	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R239	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R301	2001-000869	R-CARBON	"560HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R302	2004-000580	R-METAL	"22Kohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R303	2001-000890	R-CARBON	"6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R304	2001-000890	R-CARBON	"6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R306	2004-001022	R-METAL	"5.6Kohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R307	2001-001048	R-CARBON(S)	"1.20HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R308	2001-000037	R-CARBON(S)	"330OHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R309	2004-004014	R-METAL	"2.4ohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R310	2004-001136	R-METAL	"6.8Kohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R311	2001-000890	R-CARBON	"6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R312	2001-000812	R-CARBON	"5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R315	2004-004014	R-METAL	"2.4ohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R316	2001-000281	R-CARBON	"100OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R317	2001-000561	R-CARBON	"27KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R318	2001-000766	R-CARBON	"43KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R319	2001-000947	R-CARBON	"7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R320	2001-000331	R-CARBON	"12KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R321	2001-000591	R-CARBON	"3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R322	2001-000890	R-CARBON	"6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R323	2001-000022	R-CARBON(S)	"330HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R324	2001-000660	R-CARBON	"33KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R325	2003-000805	R-METAL OXIDE(S)	"82ohm,5%,1W,AA,TP,3.3x9mm"	
R326	2003-000805	R-METAL OXIDE(S)	"82ohm,5%,1W,AA,TP,3.3x9mm"	
R402	2001-000869	R-CARBON	"560HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R403	2004-001226	R-METAL	"750ohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R404	2004-000498	R-METAL	"2.7Kohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R405	2001-000591	R-CARBON	"3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R406	2001-000522	R-CARBON	"22KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R407	2001-000109	R-CARBON(S)	"470OHM,5%,1/2W,AA,TP,2.4X6.4MM"	

Loc. No.	Code No.	Description	Specification	Remarks
R408	2001-000429	R-CARBON	"1KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R409	2001-000812	R-CARBON	"5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R410	2001-000105	R-CARBON	"1.5KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R411	2001-001096	R-CARBON(S)	"2.20HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R412	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R413	2001-001038	R-CARBON(S)	"0.560HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R414	2001-001038	R-CARBON(S)	"0.560HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R415	2003-000432	R-METAL OXIDE(S)	"1.5Kohm,5%,3W,AA,TP,6x16mm"	
R416	2001-000107	R-CARBON(S)	"150KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R417	2001-000331	R-CARBON	"12KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R418	2001-000221	R-CARBON	"1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R419	2001-000004	R-CARBON	"200KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R420	2001-000395	R-CARBON	"180KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R422	2001-001006	R-CARBON	"820HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R423	2001-000258	R-CARBON	"1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R424	2004-000284	R-METAL	"12Kohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R425	2001-000119	R-CARBON	"6800HM,5%,1/4W,AA,TP,2.4X6.4MM"	
R426	2001-000110	R-CARBON	"100HM,5%,1/4W,AA,TP,2.4X6.4MM"	
R427	2001-000591	R-CARBON	"3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R428	2003-000505	R-METAL OXIDE(S)	"150ohm,5%,3W,AA,TP,6x16mm"	
R429	2001-000052	R-CARBON(S)	"3.3KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R430	2001-001078	R-CARBON(S)	"15KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R431	2003-000407	R-METAL OXIDE(S)	"0.6ohm,5%,2W,AA,TP,4x12mm"	
R432	2001-000020	R-CARBON(S)	"220HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R433	2003-000769	R-METAL OXIDE(S)	"680ohm,5%,3W,AA,TP,6x16mm"	
R434	2001-000449	R-CARBON	"2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R435	2001-000786	R-CARBON	"47KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R436	2001-000449	R-CARBON	"2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R437	2001-000786	R-CARBON	"47KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R438	2001-000449	R-CARBON	"2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R439	2001-000786	R-CARBON	"47KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R440	2001-000947	R-CARBON	"7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R441	2001-000411	R-CARBON	"18KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R443	2003-000578	R-METAL OXIDE(S)	"220ohm,5%,2W,AA,TP,4x12mm"	
R444	2001-000739	R-CARBON	"4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R445	2001-001079	R-CARBON(S)	"150HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R446	2001-000117	R-CARBON(S)	"680HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R447	2003-000777	R-METAL OXIDE(S)	"68ohm,5%,2W,AA,TP,4x12mm"	
R448	2003-000777	R-METAL OXIDE(S)	"68ohm,5%,2W,AA,TP,4x12mm"	
R449	2001-000211	R-CARBON	"10HM,5%,1/4W,AA,TP,2.4X6.4MM"	
R450	2001-000522	R-CARBON	"22KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R451	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R452	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R453	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R454	2003-000650	R-METAL OXIDE(S)	"330ohm,5%,2W,AA,TP,4x12mm"	
R455	2003-000650	R-METAL OXIDE(S)	"330ohm,5%,2W,AA,TP,4x12mm"	
R459	2001-000938	R-CARBON	"680HM,5%,1/8W,AA,TP,1.8X3.2MM"	

Loc. No.	Code No.	Description	Specification	Remarks
R460	2003-000724	R-METAL OXIDE(S)	"5.6ohm,5%,3W,AA,TP,6x16mm"	
R500	2001-000435	R-CARBON	"1MOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R501	2001-000472	R-CARBON	"2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R502	2004-000979	R-METAL	"47Kohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R503	2001-000449	R-CARBON	"2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R504	2001-000008	R-CARBON	"15KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R505	2001-000008	R-CARBON	"15KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R506	2004-000643	R-METAL	"270Kohm,1%,1/4W,AA,TP,2.4x6.4m"	
R507	2004-000216	R-METAL	"10Kohm,1%,1/4W,AA,TP,2.4x6.4mm"	
R508	2002-000121	R-COMPOSITION	"1Mohm,10%,1/2W,AA,TP,3.5x9.5mm"	
R509	2002-000121	R-COMPOSITION	"1Mohm,10%,1/2W,AA,TP,3.5x9.5mm"	
R510	2001-000837	R-CARBON	"51KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R511	2001-000478	R-CARBON	"2.70HM,5%,1/4W,AA,TP,2.4X6.4MM"	
R512	2001-000786	R-CARBON	"47KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R513	2001-000087	R-CARBON(S)	"120KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R514	2001-000837	R-CARBON	"51KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R515	2001-000546	R-CARBON	"270KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R516	2002-001056	R-COMPOSITION	"180Kohm,2%,1/4W,AA,TP,2.5x6.5mm"	
R518	2001-001031	R-CARBON	"91KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R519	2001-000356	R-CARBON	"150KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R520	2001-000734	R-CARBON	"4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R524	2001-000660	R-CARBON	"33KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R525	2001-000273	R-CARBON	"100KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R526	2001-000766	R-CARBON	"43KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R527	2001-000786	R-CARBON	"47KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R529	2001-000429	R-CARBON	"1KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R530	2001-000397	R-CARBON	"180KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R531	2001-000508	R-CARBON	"220KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R532	2001-000432	R-CARBON	"1MOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R551	2001-000530	R-CARBON	"240KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R552	2001-000495	R-CARBON	"20KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R553	2001-000642	R-CARBON	"330KOHM,5%,1/2W,AA,TP,3.3X9MM"	
R554	2002-001049	R-COMPOSITION	"240Kohm,5%,1/2W,AA,TP,3.9x9mm"	
R555	2001-000042	R-CARBON	"1KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R556	2001-000613	R-CARBON	"3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R560	2002-000121	R-COMPOSITION	"1Mohm,10%,1/2W,AA,TP,3.5x9.5mm"	
R561	2001-000432	R-CARBON	"1MOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R570	2001-000085	R-CARBON(S)	"100KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R600	2001-001129	R-CARBON(S)	"330KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R601	2001-001129	R-CARBON(S)	"330KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R602	2001-000023	R-CARBON	"470HM,5%,1/4W,AA,TP,2.4X6.4MM"	
R603	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R604	2001-000857	R-CARBON	"560OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R605	2001-000734	R-CARBON	"4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R607	2003-000014	R-METAL OXIDE(S)	"10Kohm,5%,3W,AA,TP,6x16mm"	
R608	2001-000281	R-CARBON	"1000HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R609	2001-000114	R-CARBON(S)	"180KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	

Loc. No.	Code No.	Description	Specification	Remarks
R610	2001-000114	R-CARBON(S)	"180KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R611	2001-001079	R-CARBON(S)	"150HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R612	2003-000738	R-METAL OXIDE(S)	"56Kohm,5%,2W,AA,TP,4x12mm"	
R614	2001-001107	R-CARBON(S)	"220ohm,5%,1/2W,AA,TP,2.4x6.4mm"	
R615	2001-001088	R-CARBON(S)	"1KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R616	2001-001108	R-CARBON(S)	"22KOHM,5%,1/2W,AA,TP,2.4X6.4MM"	
R617	2001-001037	R-CARBON(S)	"0.390HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R618	2001-000429	R-CARBON	"1KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R619	2003-000471	R-METAL OXIDE(S)	"10ohm,5%,2W,AA,TP,4x12mm"	
R620	2001-000354	R-CARBON	"150KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R621	2001-000989	R-CARBON	"820KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R625	2001-000786	R-CARBON	"47KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R630	2001-000786	R-CARBON	"47KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R631	2001-000429	R-CARBON	"1KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R632	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RL601	3501-001111	RELAY-POWER	"12Vdc,250mW,5A,1FormA,15mS,5mS"	
S/BTM+PCB	6003-000010	SCREW-TAPTITE	"BWH,+,B,M3,L10,ZPC(YEL),SWRCH1"	
SK501	4715-000001	SURGE ABSORBER	"1KV,+50-10%,-,-,"	
SW201	3404-000244	SWITCH-TACT	"15V,20mA,90-170gf,7.5x7mm,SPST"	
SW202	3404-000244	SWITCH-TACT	"15V,20mA,90-170gf,7.5x7mm,SPST"	
SW203	3404-000244	SWITCH-TACT	"15V,20mA,90-170gf,7.5x7mm,SPST"	
SW204	3404-000244	SWITCH-TACT	"15V,20mA,90-170gf,7.5x7mm,SPST"	
SW401	3406-000002	SWITCH-ROTARY	"36Vdc,200mA,SP3T,-"	
SW601	3403-001050	SWITCH-PUSH	"30V,0.3A,SPDT,ON-OFF,PC BORD T"	
T401	BH26-00027A	TRANS-HOR.DRIVE	"35.0MH,-,EI 1916,PL-3,-,310UH,-"	
T402	BH26-00028A	TRANS-H.LINEARITY	"5.2UH,6P,DR1425(C:5.0)YL-81,5.2UH/68.0MH,-,HL-1425E"	
T501	BH26-00035A	TRANS-FBT	"1.0MH,13P,FUR3658,HV45,-,-,FM1059,FEA831"	
T502	BH26-00057A	TRANS-FOCUS	"3.8MH MIN,10P,EL-2218,(SB-5S),SB-5S,3.8MH/225MH MAX,40UH MAX,"	
T601	BH26-00059A	TRANS-POWER	"350UH,18P,EER 3541,PL3,PM2,7.0UH MAX.,0.220HM,-"	
T602	BH26-30302S	TRANS-SYNC.	"3-1(250UH),-,SB-5S,UU1116,3,-"	
TH601	1404-000002	THERMISTOR-PTC	"9ohm,20%,-,-,TR,RECT,-"	
TH602	1404-001020	THERMISTOR-NTC	"8ohm,15%,-,17mW/C,BK"	
TP501	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
X201	2801-000005	CRYSTAL-UNIT	"8MHz,50ppm,28-AAM,S,35ohm,TP"	
ZD201	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZD202	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZD203	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZD204	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZD205	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZD502	0403-001068	DIODE-ZENER	"UZ4.7BSA,4.7V,4.47-4.65V,500mW"	
ZD601	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZD602	0403-001068	DIODE-ZENER	"UZ4.7BSA,4.7V,4.47-4.65V,500mW"	

7-2 Video PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
BD102	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD103	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
C102	2401-000603	C-AL	"1uF,20%,50V,GP,TP,5x11,5"	
C103	2401-000037	C-AL	"470uF,20%,16V,GP,TP,8x11.5,5"	
C105	2301-000010	"C-FILM,PEF"	"100nF,5%,100V,TP,11.5x12.5mm,5"	
C106	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C107	2401-000010	C-AL	"220uF,20%,16V,GP,-,6.3x11mm,2,"	
C108	2401-000049	C-AL	"47uF,20%,100V,WT,TP,10x16,5"	
C109	2201-000177	"C-CERAMIC,DISC"	"10nF,10%,50V,Y5P,TP,12x3.5,5"	
C110	2401-000025	C-AL	"100uF,20%,16V,GP,TP,6.3x11,5"	
C112	2401-000603	C-AL	"1uF,20%,50V,GP,TP,5x11,5"	
C113	2301-000287	"C-FILM,PEF"	"5.6nF,5%,100V,TP,10.5x12.5x6.5"	
C116	2301-000188	"C-FILM,PEF"	"1nF,5%,100V,TP,10.5x12.5x6.5,5"	
C117	2301-000188	"C-FILM,PEF"	"1nF,5%,100V,TP,10.5x12.5x6.5,5"	
C118	2201-000471	"C-CERAMIC,DISC"	"0.33nF,10%,50V,Y5P,TP,4x3.5,5"	
C119	2201-000291	"C-CERAMIC,DISC"	"1nF,10%,500V,Y5P,TP,7.5x3.5,5"	
C120	2201-000285	"C-CERAMIC,DISC"	"1nF,10%,1kV,Y5P,TP,8x5,5"	
C121	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C123	2201-000019	"C-CERAMIC,DISC"	"10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5"	
C124	2301-000148	"C-FILM,PEF"	"10nF,5%,100V,TP,7x3.2x7mm,5mm"	
C125	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
C126	2201-000117	"C-CERAMIC,DISC"	"1.8nF,10%,500V,Y5P,TP,8.5x3,5"	
C128	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
C151	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C152	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C160	2401-000031	C-AL	"47uF,20%,16V,GP,TP,5x11,5"	
CB01	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
CB02	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
CB04	2401-000055	C-AL	"1uF,20%,160V,WT,TP,3x11,5mm"	
CB05	2301-000010	"C-FILM,PEF"	"100nF,5%,100V,TP,11.5x12.5mm,5"	
CB06	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
CB07	2201-000146	"C-CERAMIC,DISC"	"0.1nF,5%,50V,SL,TP,5x3.5,5"	
CB08	2201-000411	"C-CERAMIC,DISC"	"0.27nF,10%,50V,Y5P,TP,4x3.5,5"	
CG01	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
CG02	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
CG04	2401-000055	C-AL	"1uF,20%,160V,WT,TP,3x11,5mm"	
CG05	2301-000010	"C-FILM,PEF"	"100nF,5%,100V,TP,11.5x12.5mm,5"	
CG06	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
CG07	2201-000146	"C-CERAMIC,DISC"	"0.1nF,5%,50V,SL,TP,5x3.5,5"	
CG08	2201-000411	"C-CERAMIC,DISC"	"0.27nF,10%,50V,Y5P,TP,4x3.5,5"	
CIS	BH75-00047A	UNIT/SHIELD-VIDEO/CAP	"CL17LO,SPTE T0.3,-,-,-"	
CIS	BH71-00006B	SHIELD-VIDEO/CAP	"CL17LO,SPTE,0.2,-,-"	
CIS	BH71-10311A	EARTH-PLATE		
CIS	BH75-00192H	UNIT/SHIELD-VIDEO	"DEL,-,SPTE,-,-,14","",15","",17","", -"	
CIS	BH61-00002A	SPRING-VIDEO	"CDB7907,STS H14 ,T1.0,-,-,-,NORMAL CDT"	
CIS	BH71-00007A	SHIELD-VIDEO	"CDA4507,SPTE,T0.2,-,-"	
CIS	BH72-00024A	HOLDER-VIDEO	"CDA4507,ABS+PC,5V,IV16,-,NORMAL CRT"	

Loc. No.	Code No.	Description	Specification	Remarks
CIS	BH73-00014A	HOLDER-RUBBER(NORMAL)	"DEL,SILICON V2,GRAY,--,NORMAL"	
CIS	0205-001027	OIL-SILICON	"G746,--,--"	
CIS	6006-001008	SCREW-ASS'Y MACH	"WSP,BH,+,M3,L10,ZPC(YEL),SWRCH"	
CIS	6021-000118	NUT-HEXAGON	"1C,M3,ZPC(YEL),SM20C"	
CIS	BH13-00003A	IC-HYBRID	"-,LM2437,TO-220,9P,CRT DRIVER,0 TO 6.0V,-"	
CIS	BH62-00006A	HEAT SINK-VIDEO	"-,A1050S T2.0,--,DB"	
CN101	3711-004228	CONNECTOR-HEADER	"BOX,6P,1R,2MM,ANGLE,SN"	
CN102	BH39-00015A	CBF-HARNESS	"13P/14P,200MM,WHT/BLK/RED/BLU,UL1007,AWG26,SMH200-13/YBNH200-14"	
CR01	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
CR02	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
CR04	2401-000055	C-AL	"1uF,20%,160V,WT,TP,3x11,5mm"	
CR05	2301-000010	"C-FILM,PEF"	"100nF,5%,100V,TP,11.5x12.5mm,5"	
CR06	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
CR07	2201-000146	"C-CERAMIC,DISC"	"0.1nF,5%,50V,SL,TP,5x3.5,5"	
CR08	2201-000411	"C-CERAMIC,DISC"	"0.27nF,10%,50V,Y5P,TP,4x3.5,5"	
D102	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
DB01	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
DB02	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
DB03	0401-000004	DIODE-SWITCHING	"1SS244,250V,200mA,DO-34,TP"	
DB04	0401-000004	DIODE-SWITCHING	"1SS244,250V,200mA,DO-34,TP"	
DB05	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
DG01	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
DG02	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
DG03	0401-000004	DIODE-SWITCHING	"1SS244,250V,200mA,DO-34,TP"	
DG04	0401-000004	DIODE-SWITCHING	"1SS244,250V,200mA,DO-34,TP"	
DG05	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
DR01	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
DR02	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
DR03	0401-000004	DIODE-SWITCHING	"1SS244,250V,200mA,DO-34,TP"	
DR04	0401-000004	DIODE-SWITCHING	"1SS244,250V,200mA,DO-34,TP"	
DR05	0401-000005	DIODE-SWITCHING	"1N4148,100V,200MA,DO-35,TP"	
EY1	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY2	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY3	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY4	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
G2	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
GND	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
HS103	BH99-00004B	"ASSY,HEAT/SINK"	"H/S VIDEO,SCREW+NUT,LM2437,--,OIL SILICON,--"	
IC101	1204-001646	IC-OSD PROCESSOR	"KB2502,DIP,32P,600MIL,PLASTIC,--,20to75C,ST,--"	
JP103	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP109	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP116	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP117	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP119	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP122	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP123	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	
JP124	BH39-40305U	CBF HARNESS	" ,52MM,--,AWG22(0.6PI),--,--,--"	

Loc. No.	Code No.	Description	Specification	Remarks
JP127	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP128	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP133	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP134	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP136	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP137	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP140	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP142	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP146	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP147	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP148	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP150	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP151	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
JP152	BH39-40305U	CBF HARNESS	,"52MM,-,-,AWG22(0.6PI),-,,-,"	
L101	2701-000112	INDUCTOR-AXIAL	"100uH,10%,3x7mm"	
L103	2701-000164	INDUCTOR-AXIAL	"27uH,10%,4.2x9.8mm"	
LB01	2701-000172	INDUCTOR-AXIAL	"330nH,10%,3x7mm"	
LG01	2701-000172	INDUCTOR-AXIAL	"330nH,10%,3x7mm"	
LJPI	BH39-40306D	CBF-HARNESS	,"80MM,BLK,1015,AWG22,-,-,-,"	
LR01	2701-000172	INDUCTOR-AXIAL	"330nH,10%,3x7mm"	
MP1.2	BH41-00058A	PCB-VIDEO	"TP17LT,PHENOL,-,1.6T*247*330MM,-"	
Q102	0501-000122	TR-SMALL SIGNAL	"2N3904,NPN,625mW,T0-92,TP,100-"	
QB01	0501-000140	TR-SMALL SIGNAL	"2N5551,NPN,625mW,T0-92,-,80-25"	
QB02	0501-000138	TR-SMALL SIGNAL	"2N5401,PNP,625mW,T0-92,TP,60-2"	
QG01	0501-000140	TR-SMALL SIGNAL	"2N5551,NPN,625mW,T0-92,-,80-25"	
QG02	0501-000138	TR-SMALL SIGNAL	"2N5401,PNP,625mW,T0-92,TP,60-2"	
QR01	0501-000140	TR-SMALL SIGNAL	"2N5551,NPN,625mW,T0-92,-,80-25"	
QR02	0501-000138	TR-SMALL SIGNAL	"2N5401,PNP,625mW,T0-92,TP,60-2"	
R101	2001-000522	R-CARBON	"22KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R102	2001-000281	R-CARBON	"1000HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R103	2001-001138	R-CARBON(S)	"3900HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R104	2001-001138	R-CARBON(S)	"3900HM,5%,1/2W,AA,TP,2.4X6.4MM"	
R107	2001-000429	R-CARBON	"1KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R108	2001-000812	R-CARBON	"5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R109	2001-000563	R-CARBON	"27KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R114	2001-000780	R-CARBON	"4700HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R115	2001-000577	R-CARBON	"2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R116	2001-000290	R-CARBON	"10KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
R117	2001-000515	R-CARBON	"2200HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R118	2001-000857	R-CARBON	"5600HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R119	2001-000857	R-CARBON	"5600HM,5%,1/8W,AA,TP,1.8X3.2MM"	
R120	2002-001022	R-COMPOSITION	"30MOHM,5%,1/4W,AA,TP,2.5X6.5MM"	
R123	2001-000432	R-CARBON	"1MOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
R124	2001-000034	R-CARBON	"2200HM,5%,1/4W,AA,TP,2.4X6.4MM"	
RB01	2001-000969	R-CARBON	"750HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RB02	2001-000969	R-CARBON	"750HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RB03	2001-000780	R-CARBON	"4700HM,5%,1/8W,AA,TP,1.8X3.2MM"	

Loc. No.	Code No.	Description	Specification	Remarks
RB04	2001-000281	R-CARBON	"100OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RB08	2001-000793	R-CARBON	"470HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RB09	2001-000962	R-CARBON	"75KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
RB10	2001-000705	R-CARBON	"390HM,5%,1/2W,AA,TP,3.3X9MM"	
RB11	2001-000281	R-CARBON	"1000HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RB12	2001-000449	R-CARBON	"2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RB13	2001-001000	R-CARBON	"82KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RB14	2001-000780	R-CARBON	"470OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RB15	2001-000793	R-CARBON	"470HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RB20	2001-000947	R-CARBON	"7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG01	2001-000969	R-CARBON	"750HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG02	2001-000969	R-CARBON	"750HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG03	2001-000780	R-CARBON	"470OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG04	2001-000281	R-CARBON	"1000HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG08	2001-000793	R-CARBON	"470HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG09	2001-000962	R-CARBON	"75KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
RG10	2001-000705	R-CARBON	"390HM,5%,1/2W,AA,TP,3.3X9MM"	
RG11	2001-000281	R-CARBON	"1000HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG12	2001-000449	R-CARBON	"2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG13	2001-001000	R-CARBON	"82KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG14	2001-000221	R-CARBON	"1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG15	2001-000793	R-CARBON	"470HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RG20	2001-000947	R-CARBON	"7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR01	2001-000969	R-CARBON	"750HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR02	2001-000969	R-CARBON	"750HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR03	2001-000780	R-CARBON	"470OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR04	2001-000281	R-CARBON	"1000HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR08	2001-000793	R-CARBON	"470HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR09	2001-000962	R-CARBON	"75KOHM,5%,1/4W,AA,TP,2.4X6.4MM"	
RR10	2001-000705	R-CARBON	"390HM,5%,1/2W,AA,TP,3.3X9MM"	
RR11	2001-000281	R-CARBON	"1000HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR12	2001-000449	R-CARBON	"2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR13	2001-001000	R-CARBON	"82KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR14	2001-000780	R-CARBON	"470OHM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR15	2001-000793	R-CARBON	"470HM,5%,1/8W,AA,TP,1.8X3.2MM"	
RR20	2001-000947	R-CARBON	"7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM"	
S/VID	6502-000001	CABLE CLAMP	"DAWH-5NB,D15,L35,NTR,NYLON66"	
S/VID+H/S	6003-000010	SCREW-TAPITITE	"BWH,+,B,M3,L10,ZPC(YEL),SWRCH1"	
SK01	3704-001116	SOCKET-CRT	"11P,22.5PI,26.5PI,NI,-"	
SK101	1405-001064	SURGE ABSORBER	"400V,20%,-,-,AXIAL"	
SK102	4715-000001	SURGE ABSORBER	"1KV,+50-10%,-,-"	
SKB01	4715-000102	SURGE ABSORBER	"200V,20%,1000A,-,RADIAL"	
SKG01	4715-000102	SURGE ABSORBER	"200V,20%,1000A,-,RADIAL"	
SKR01	4715-000102	SURGE ABSORBER	"200V,20%,1000A,-,RADIAL"	

7-3 Different Parts List (CDT)

Maker	SDD 0.28				TSB		Philips		Remarks
Descriptions	Mini-Neck		Normal (290)		Mini-Neck		Normal (290)		
R516	MF1/4W 160K	2004-000368	MF 1/4W 150K	2004-000327	MF1/4W 150K	2004-000327	MF 1/4W 150K	2004-000327	
R527	CF1/8W 27K	2001-000563	CF 1/8W 47K	2001-000786	CF 1/8W 27K	2001-000563	CF 1/8W 47K	2001-000786	
R520	CF 1/8W 2.7K	2001-000472	CF 1/8W 1.5K	2001-000241	CF 1/8W 2.7K	2001-000472	CF 1/8W 1.5K	2001-000241	
R428	M.0 3W 270	2003-000608	M.0 3W 390	2003-000672	M.0 3W 270	2003-000608	M.0 3W 430	2003-000695	
R423	CF 1/8W 2.7K	2001-000472	CF 1/8W 1.8K	2001-000258	CF 1/8W 2.7K	2001-000472	CF 1/8W 1.8K	2001-000258	
R418	CF 1/8W 2.2K	2001-000449	CF 1/8W 1.2K	2001-000221	CF 1/8W 2.2K	2001-000449	CF 1/8W 1.2K	2001-000221	
R419	CF 1/8W 180K	2001-000397	CF 1/8W 200K	2001-000004	CF 1/8W 180K	2001-000397	CF 1/8W 200K	2001-000004	
R431	WW 3W 0.82	2005-001071	M0 3W 0.6	2005-000407	WW 3W 0.82	2005-001071	WW 3W 0.82	2005-001071	
R425	CF 1/4W 1K	2001-000042	CF 1/4W 1.2K	2001-000044	CF 1/4W 1K	2001-000042	CF 1/4W 1.2K	2001-000044	
R424	MF 1/4W 12K	2004-000284	MF 1/4W 12K	2004-000284	MF 1/4W 12K	2004-000284	MF 1/4W 9.1K	2004-001329	
R315, R309	MF 1/4W 3.3	2004-001814	MF 1/4W 2.4	2004-004014	MF 1/4W 3.3	2004-001814	MF 1/4W 2.4	2004-004014	
R211	CF 1/8W 680	2001-000613	CF 1/8W 560	2001-000857	CF 1/8W 680	2001-000613	CF 1/8W 560	2001-000857	
C415	ELE-CAP 160V 1μF	2401-000043	ELE-CAP 100V 4.7μF	2401-001218	ELE-CAP 160V 1μF	2401-000043	ELE-CAP 100V 4.7μF	2401-001218	
C620, C407	ELE-CAP 63V 150μF	2401-000540	ELE-CAP 100V 120μF	-	ELE-CAP 63V 150μF	2401-000540	ELE-CAP 100V 120μF	-	
Q402	IRF640	0505-001309	IRF634	0505-001181	IRF640	0505-001309	IRF634	0505-001181	
T401	HDT	BH26-00027A	HDT(N)	-	HDT	BH26-00027A	HDT(N)	-	
T501	TRANS FBT(SEMCO)	BH26-00025A	TRANS FBT(SEMCO)	BH26-00037A	TRANS FBT(SEMCO)	BH26-00025A	TRANS FBT(SEMCO)	BH26-00037A	
T601	TRANS POWER (45V)	BH26-00021A	TRANS POWER (52V)	BH26-00046A	TRANS POWER (45V)	BH26-00021A	TRANS POWER (52V)	BH26-00046A	
SK01	SDD MINI SOCKET	3704-001081	NORMAL SOCKET	3704-001014	TSB MINI SOCKET	3704-001042	NORMAL SOCKET	3704-001014	

7-4 Comparison Material List

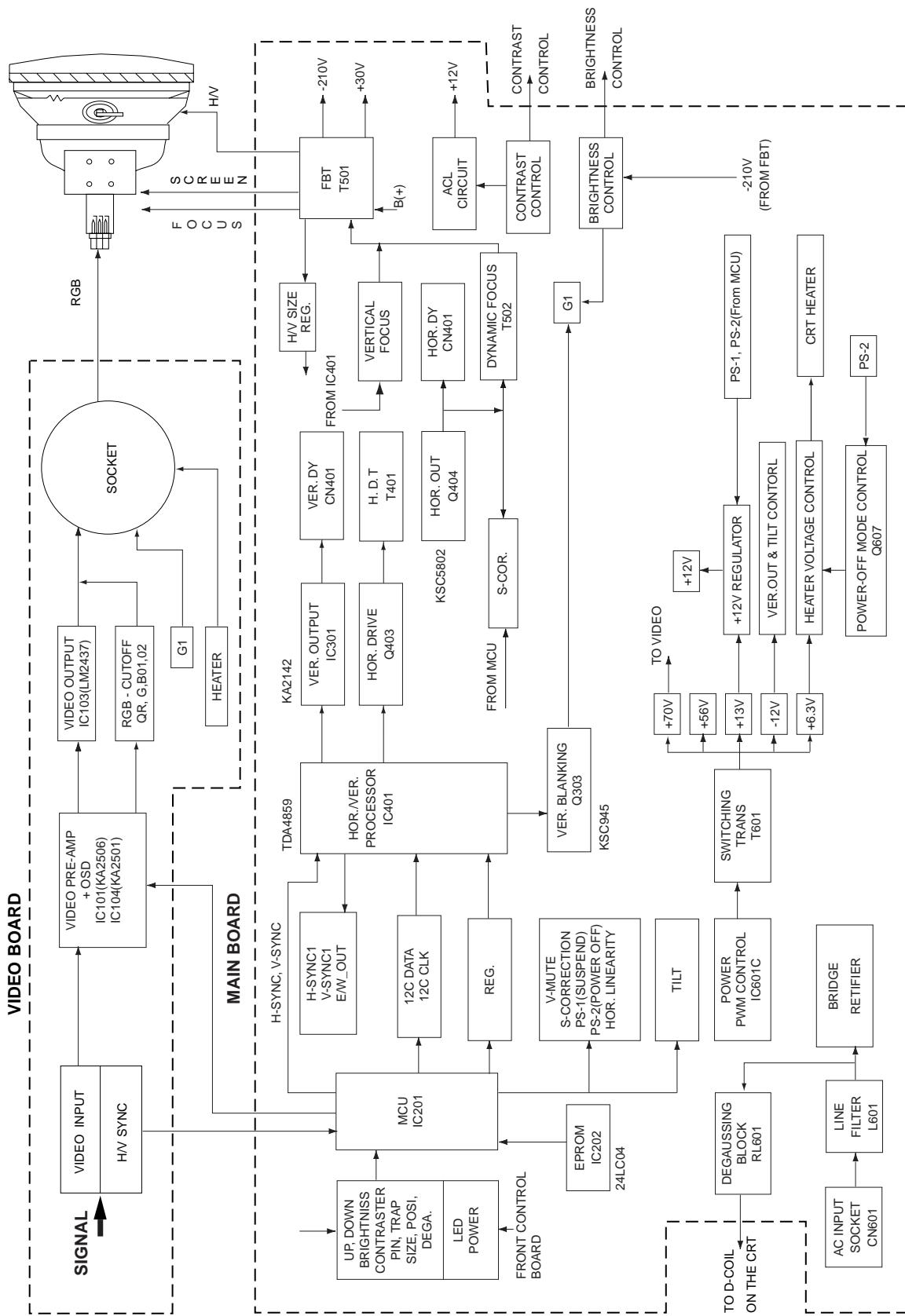
7-4-1 Main PCB

DF17JS (SM755DF) 85K				DF17KS (SM755DF) 70K		Remark
No	Loc. No.	Code No.	Description	Code No.	Description	
1	C443	2303-000122	C-PP 630V 10nf	-	-	
2	C444	2303-000122	C-PP 630V 10nf	-	-	
3	C442	2301-001249	C-MP 400V 68nf	-	-	
4	C431	2306-000164	C-MP 250V 220nf	2306-000179	C-MP 250V 304	
5	C441	2401-000603	C-AL 50V 1uf	-	-	
6	Q421	0505-001309	IRF630	-	-	
7	HS403(Q422)	BH99-00005G	H/SINK ASS'Y IRF740	-	-	
8	Q420	0501-000586	KSC945	-	-	
9	R457	2001-000786	47K 1/8W	-	-	
10	R455	2001-000290	10K 1/8W	-	-	
11	R456	2001-000290	10K 1/8W	-	-	
12	D430	0402-000006	DIODE 1N4007	-	-	
13	JP66	BH39-40305U	JUMPER	-	-	
14	JP72	-	-	BH39-40305U	JUMPER	
15	-	BH39-40305U	JUMPER	-	-	-85K(Model Sel)
16	-	-	-	BH39-40305U	JUMPER	70K(Model Sel)
17	R219	2001-000290	10K 1/8W	-	-	
18	JP71	-	-	BH39-40305U	JUMPER	

7-4-2 Video PCB

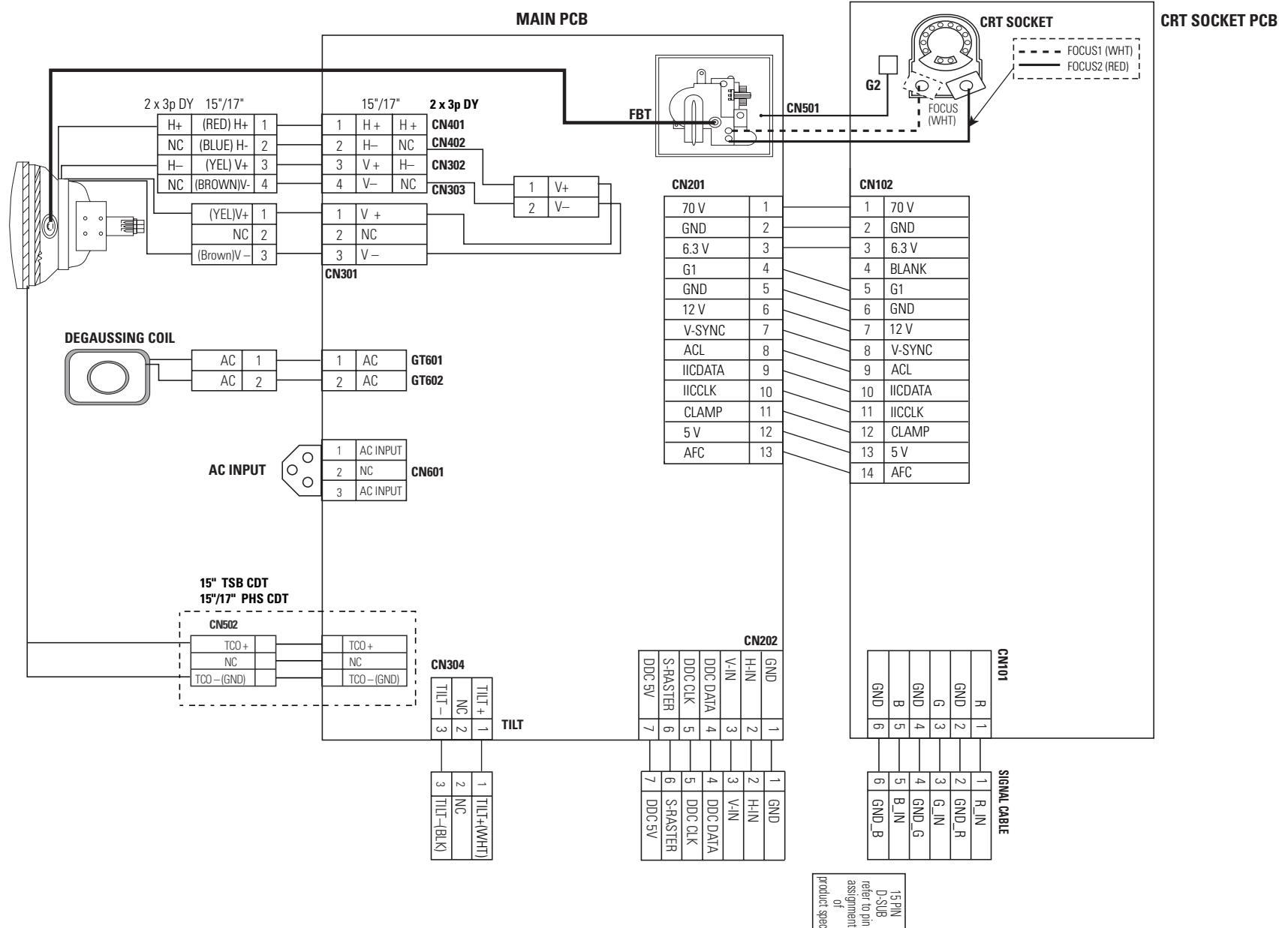
DF17JS (SM755DF) 85K				DF17KS (SM755DF) 70K		Remark
No	Loc. No.	Code No.	Description	Code No.	Description	
1	HS103	BH99-00004C	ASS'Y HEAT SINK LM2435	BH99-00004B	ASS'Y HEAT SINK LM2437	
2	LR01/LG01/LB01	2701-001063	INDUCTOR AXIAL 0.15UH	2701-000172	INDUCTOR AXIAL 330nH	
3	RR08/RG08/RB08	2001-000019	10 ohm 5% 1/2W(S)	2001-000793	47 ohm 5% 1/8W	
4	RR13/RG13/RB13	2001-000273	100K ohm 5% 1/8W	2001-001000	82K ohm 5% 1/8W AA, TP	
5	RR14/RB14	2001-000025	75 ohm 5% 1/4W	2001-000780	470 ohm 5% 1/8W A, TP	

8 Block Diagrams



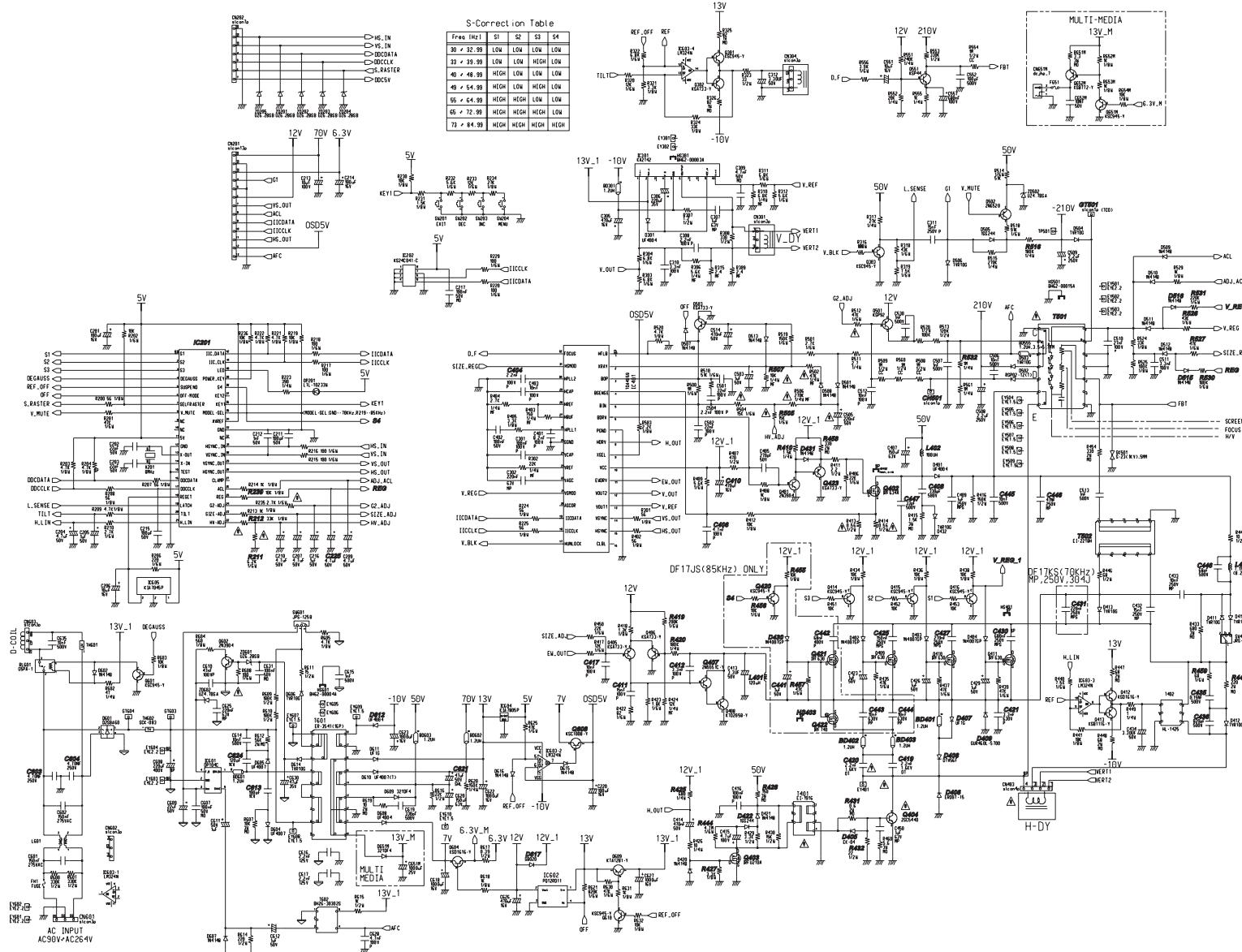
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9 Wiring Diagram

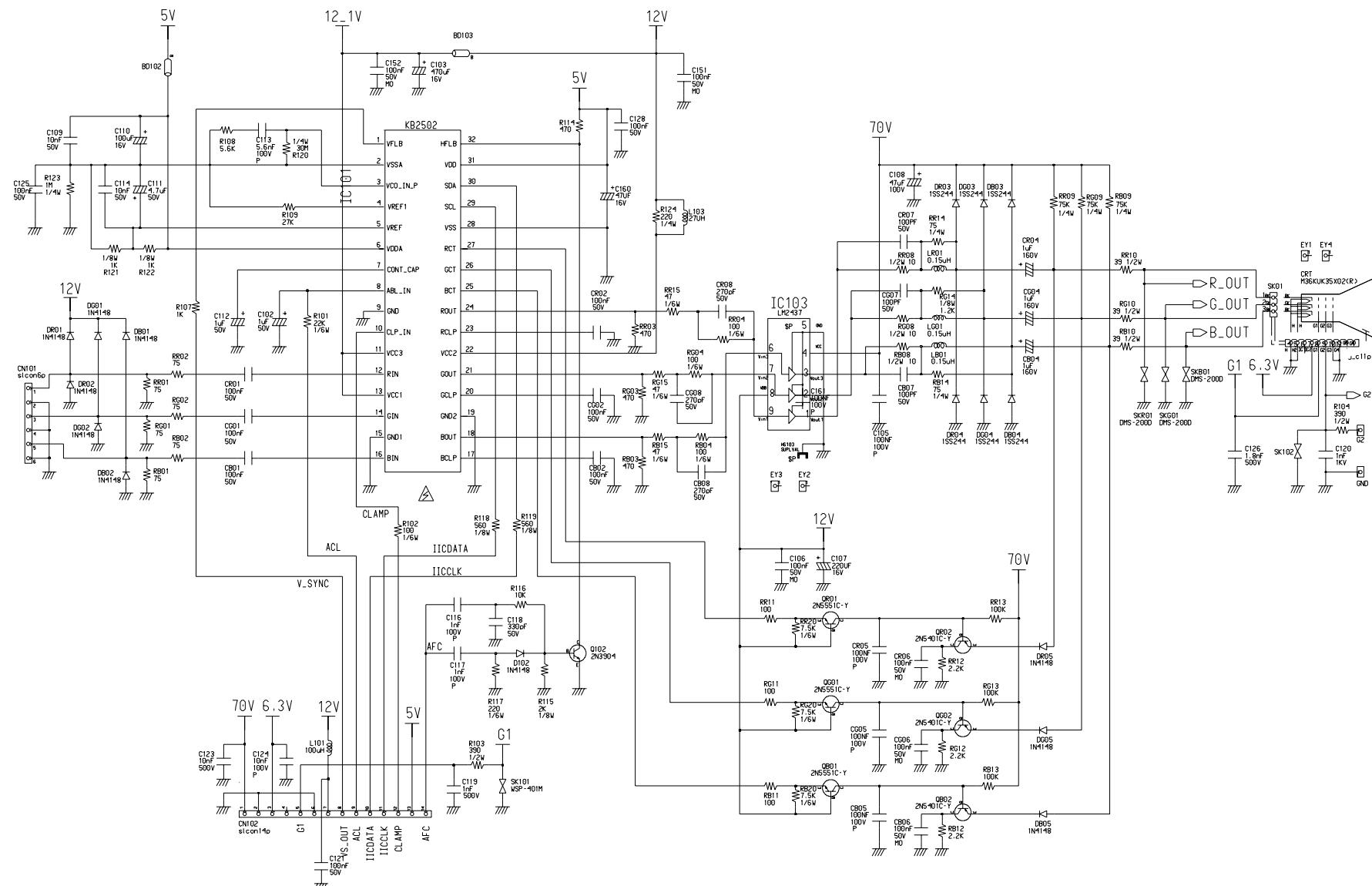


10 Schematic Diagrams

10-1 Main Part Schematic Diagram



10-2 Video Part Schematic Diagram



Memo