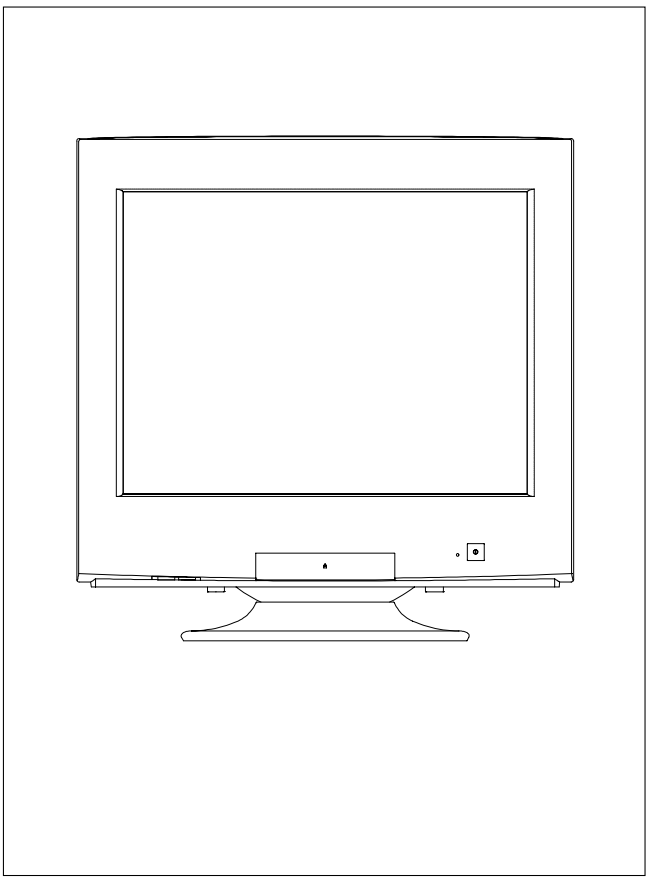
SAMSUNG

COLOR MONITOR

PN22N*

SERVICE Manual

COLOR MONITOR



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PN22N* Service Manual

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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.

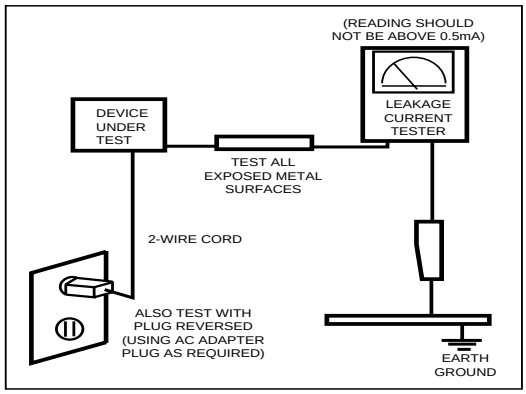


Figure 1-1. Leakage Current Test Circuit

1-1-3 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. Servicing precautions are printed on the cabinet,

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.

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.

   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
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:	22-inch (50.0 cm) viewable, 0.24 mm Aperture Grille, Full-square flat-face tube, 90˚ Deflection, Anti-Reflection coating with Anti-electrastatic, Medium short persistence phosphor
Scanning Frequency	Horizontal : 30 kHz to 121 kHz (Automatic), Vertical : 50 Hz to 185 Hz (Automatic)
Display Colors	Unlimited colors
Maximum Resolution	Horizontal : 2048 Dots Vertical : 1536 Lines
Input Video Signal	Analog, 0.7 Vp-p positive at 75 Ω, internally terminated
Input Sync Signal	Separate Sync : TTL level positive/negative Composite Sync : TTL level positive/negative Sync-on-Green : Composite sync 0.3 Vp-p negative (Video on Vp-p positive)
Maximum Pixel Clock rate	340 MHz
Active Display	Horizontal : 395 mm ± 3 mm (15.55" ± 0.12") Vertical : 296 mm ± 3 mm (11.65" ± 0.12")
Input Voltage	AC 90 to 264 Volts, 60/ 50 Hz ± 3 Hz
Power Consumption (max)	160 Watt
Dimensions (W x D x H)	Unit ; 19.7 x 18.7 x 20.1 Inches (500 x 476 x 510 mm) Carton ; 25.0 x 24.6 x 25.3 Inches (634 x 625 x 642 mm)
Weight (Net/Gross)	69.4 lbs (31.5 kg) / 80.5 lbs (36.5 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 %

- PN22N* complies with TCO 99 recommendations for reduced electromagnetic fields.
- Designs and specifications are subject to change without prior notice.

2-2 Pin Assignments

Sync Type / Pin No.	15-Pin Side of the Signal Cable			Cable Adapter
	Separate	Composite	Sync on Green	Apple MacII
1	Red	Red	Red	GND-R
2	Green	Green	Green +Sync.	Red
3	Blue	Blue	Blue	H/V Sync.
4	GND	GND	GND	Sense 0
5	DDC Return	DDC Return	DDC Return	Green
6	GND-R	GND-R	GND-R	GND-G
7	GND-G	GND-G	GND-G	Sense 1
8	GND-B	GND-B	GND-B	Reserved
9	Reserved	Reserved	Reserved	Blue
10	GND-Sync./Self-raster	GND-Sync./Self-raster	GND-Sync./Self-raster	Sense 2
11	GND	GND	GND	GND
12	DDC Data	DDC Data	DDC Data	V-Sync.
13	H-Sync.	H-Sync.	Not Used	GND-B
14	V-Sync.	Not Used	Not Used	GND
15	DDC Clock	DDC Clock	DDC Clock	H-Sync.

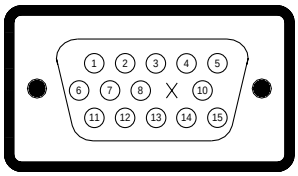


Figure 2-1. Male Type

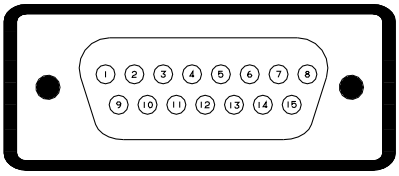


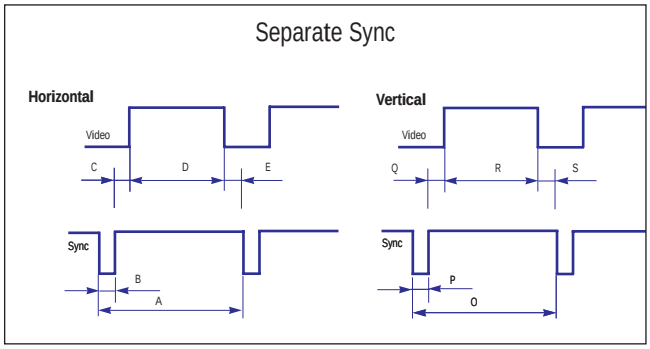
Figure 2-2. Male Type

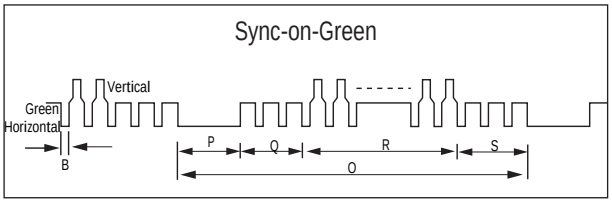
2-3 Timing Chart

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					
	VGA2/70Hz 720 x 400	VGA3/60Hz 640 x 480	800/85 Hz 800 x 600	1152/75 Hz 1152 x 864	1024/85 Hz 1024 x 768	1920/75 Hz 1920 x 1024	1280/85 Hz 1280 x 1024	1600/85 Hz 1600 x 1200
fH (kHz)	31.469	31.469	53.674	67.500	68.677	112.730	91.146	106.250
A µsec	31.778	31.778	18.631	14.815	14.561	8.871	10.971	9.412
B µsec	3.813	3.813	1.138	1.185	1.016	0.699	1.016	0.837
C µsec	1.907	1.907	2.702	2.370	2.201	1.210	1.422	1.325
D µsec	25.422	25.422	14.222	10.667	10.836	6.452	8.127	6.972
E µsec	0.636	0.636	0.569	0.593	0.508	0.511	0.406	0.279
fV (Hz)	70.087	59.940	85.061	75.000	84.997	75.000	85.024	85.000
O msec	14.268	16.683	11.756	13.333	11.765	13.333	11.761	11.765
P msec	0.064	0.064	0.056	0.044	0.044	0.026	0.033	0.028
Q msec	1.080	1.048	0.503	0.474	0.524	0.523	0.483	0.433
R msec	12.711	15.253	11.179	12.800	11.183	12.774	11.235	11.294
S msec	0.413	0.318	0.019	0.015	0.015	0.009	0.011	0.009
Clock Freq. (MHz)	28.322	25.175	56.250	108.000	94.500	297.590	157.500	229.50
Polarity H.Sync	Negative	Negative	Positive	Positive	Positive	Negative	Positive	Positive
V.Sync	Positive	Negative	Positive	Positive	Positive	Positive	Positive	Positive
Remark	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	

3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the PN22N* 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. Follow these directions carefully; never use metal instruments to pry apart the cabinet.

3-1-1 Before making Disassembly

1. Disconnector signal cable and power cord from the monitor.
2. With a pad beneath it, stand the monitor on its front with the screen facing downward and the base close to you.
3. Make sure nothing will damage the screen.

3-1-2 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.
4. Take out the screw caps on left / right top of monitor.

Figure 1

5. Unscrew (4) and take the Rear Cover apart.

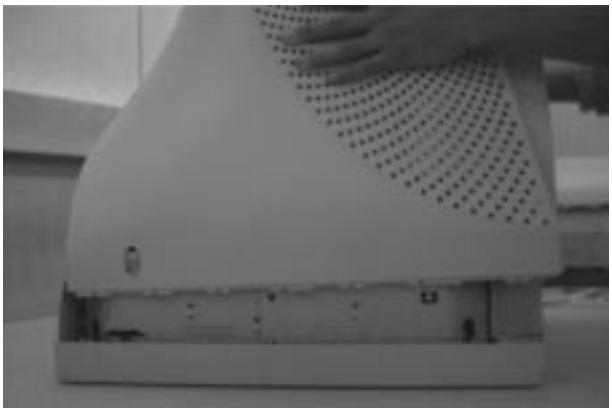


Figure 2

3-1-3 Removing the Top Shield

Remove the 9 screws on the top shield cover and remove the shield.

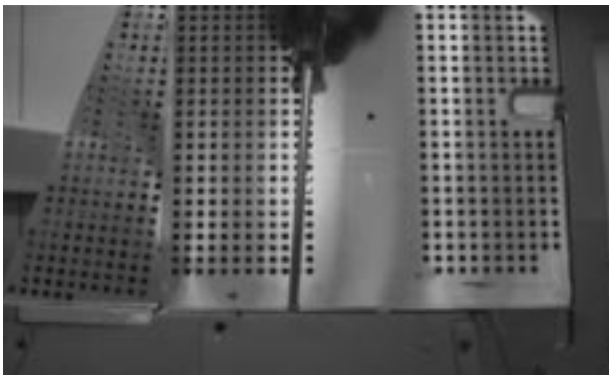


Figure 3

3-1-4 Removing the Power PCB Assembly and the Power PCB

1. Remove the 3 screws on the Power Assembly shield.
2. Disconnect CN603, CN604, CN602, CN881 and wire of clamp holder and then CN601 from PCB Assembly shield.
3. Remove the 2 screws on the PCB Assembly rear shield and remove the shield
4. Remove the 4 screws on the PCB Assembly.

3-1-5 Removing the BNC PCB Assembly and the BNC PCB

1. Disconnect CN801, CN802, CN803, CN804, CN202, CN204, CN205 on the BNC PCB Assembly shield and remove the shield.
2. Remove the 2 screws from PCB Assembly shield outside.
3. Remove the 2 cable ties, disconnect CN10 on the small PCB Assembly.
4. Remove the 7 screws from PCB Assembly and remove the PCB Assembly.

3-1-6 Removing the Video PCB Assembly and the Video PCB

1. Disconnect 2 wires from BNC Assembly shield and remove Video Assembly from the CRT neck.
2. Disconnect 3 wires from Main PCB Assembly and wires of clamp holder.
3. Desolder the 4 points on the video rear shield and remove the shield.
4. Remove the 3 screws on the Video Assembly shield inside and remove the shield from Video PCB.

3-1-7 Removing the Main PCB Assembly and the Main PCB

1. Remove chassis ground wire on the lift side.
2. Remove the 4 screws on the Bottom shield.
3. Disconnect CN901, CNS211, CNS201, H_DY, V_DY and anode cap on the Main PCB Assembly.
4. Remove 5 screws on the Main PCB.

3-1-8 Removing the Bracket

Remove the 10 screws on the Front Cabinet.

3-2 Reassembly

Reassembly procedures are in the reverse order of Disassembly procedures.

4 Alignment and Adjustments

This section of the service manual explains how to make permanent adjustments to the monitor. Direction is given for adjustment 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 / Composite
(TTL level negative / positive)

Sync-on-Green:
Composite sync 0.3 Vp-p negative
(Video 0.7 Vp-p positive)

4-1-1 (e) SCANNING FREQUENCY

Horizontal: 30 kHz to 121 kHz (Automatic)
Vertical: 50 Hz to 185 Hz (Automatic)

Unless otherwise specified, adjust at the 1280 x 1024 mode (H: 91 kHz, V: 85 Hz) signals.

Refer to Table 2-1 on pages 2-2 and 2-3.

4-1-1 (f) HIGH VOLTAGE ADJUSTMENT

Signal: 1280 x 1024 mode (91 kHz / 85 Hz)
Display image: Full white
Contrast: Maximum
Brightness: Maximum
Limit: 27.0 kV ± 0.5 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 Softjig.

4-1-1 (g) G2 (SCREEN) VOLTAGE ADJUSTMENT

Signal: 1280 x 1024 mode (91 kHz / 85 Hz)
Display image: Full white
Contrast: Maximum
Brightness: Maximum

Adjust the Screen VR of the FBT so that the G2 (Screen) Voltage for Toshiba it is 700 V ± 10 V.

4-1-1 (h) CENTER RASTER

Adjust VR401 so that the back raster comes to the center when you apply a signal of 91 kHz / 85 Hz.

PN22N*	MITSUBISHI
G2	700V

4-1-1 (i) BRIGHTNESS AND CONTRAST

Unless otherwise specified, adjust control volumes:

Brightness: Maximum
Contrast: Maximum

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 mm
   Non-metallic (–) screwdriver: 3 mm
2. Philips (+) screwdriver: 1.5 mm
3. Non-metallic hexkey: 2.5 mm
4. Digital Multimeter (DMM), or
   Digital Voltmeter (DVM)
5. Signal generator, or
   Computer with a video board that uses the ET-4000 chipset (strongly recommended if using Samsung DM 200 software) and that displays: 1280 x 1024 @ 85 Hz, or 1600 x 1200 @ 85 Hz (maximum).
6. Personal computer
7. Required software: Softjig.exe from Samsung which includes the PN22NF.mdl (Toshiba CRT) data file
   Samsung DM200, or DisplayMate for Windows from Sonera Technologies
8. Interface Board Ver. 2.0 Code No. BH81-90001K
9. Parallel communications cable (25-pin to 25-pin); Code No. BH81-90001H
10. Signal cable (15-pin to 15-pin cable with additional 3-pin connector); Code No. BH81-90001J
11. 5 V DC adapter, not supplied

Note: Softjig Ass'y (includes items 8, 9 and 10) 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 equipmen

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.

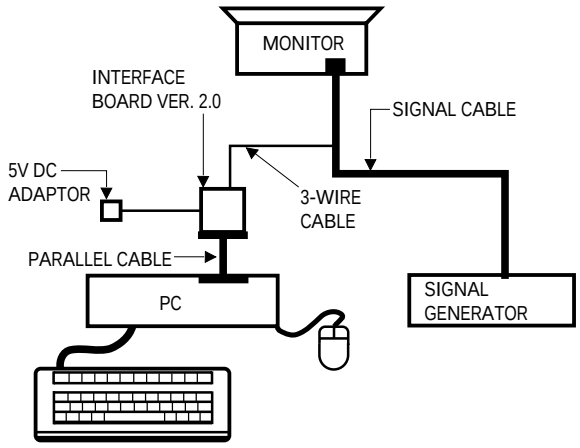


Figure 4-1. Setup 1, With Signal Generator

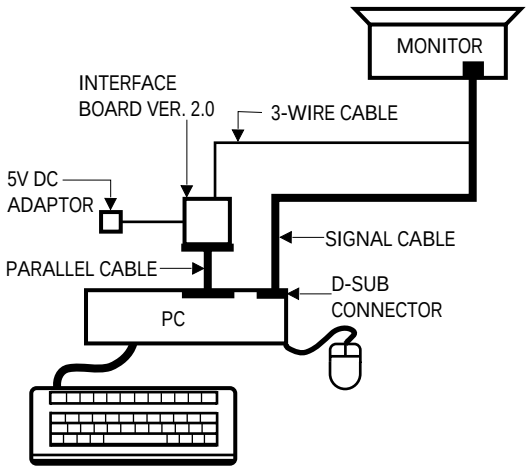


Figure 4-2. Setup 2, Without Signal Generator

4-1-4 After Making Adjustments

After finishing all adjustments, test the monitor in all directions. If, for example, the monitor does not meet adjustment specifications when facing north, reposition the monitor to face east and readjust. This time, try for an adjustment closer to the ideal setting within the tolerance range. Test the unit again in all directions. If the monitor again fails to meet specifications in every direction, contact your Regional After Service Center for possible CRT replacement.

4-2 Display Control Adjustments

4-2-1 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: 395 mm (H) x 296 mm (V).
1280 x 1024 mode (91 kHz/85Hz)

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

| A-B | ≤ 4.0 mm. | C-D | ≤ 4.0 mm.

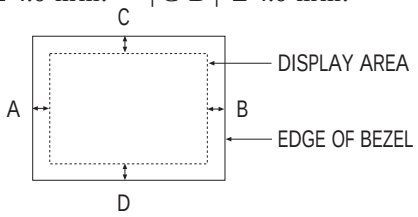


Figure 4-3. Centering

4-2-1 (a) HORIZONTAL SIZE ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

Click on the << or >> box next to **H_SIZE** to adjust the horizontal size of the display pattern to 390 mm. (Tolerance: ± 3 mm.)

4-2-1 (b) VERTICAL SIZE ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

Click on the << or >> box next to **V_SIZE** to adjust the vertical size of the display pattern to 292.5 mm. (Tolerance: ± 3 mm.)

4-2-1 (c) HORIZONTAL POSITION ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

Click on the << or >> box next to **H_POSI** to center the horizontal image on the raster.

4-2-1 (d) VERTICAL POSITION ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

Click on the << or >> box next to **V_POSI** to center the vertical image on the raster.

4-2-2 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 Table 4-1, an image appears distorted, elongated or squashed.

$$\text{Horizontal Linearity} = 2x\frac{\text{X max-X min}}{\text{X max+X min}}\ x100$$

$$\text{Vertical Linearity} = 2x\frac{\text{Y max-Y min}}{\text{Y max+Y min}}\ x100$$

Table 4-1.

	Adjust Linearity	Entire Linearity
Preset mode	≤ 4%	≤ 10%
Pre-load mode	≤ 5%	≤ 14%

4-2-2 (a) HORIZONTAL LINEARITY ADJUSTMENT

CONDITIONS

Scanning frequency: 91 kHz/85 Hz
Display image: Crosshatch pattern
Brightness: Cut-off
Contrast: Maximum

To adjust the Horizontal Linearity, refer to Tables 4-1 and 4-2 for the tolerance range.

Click on the << or >> box next to **H_LIN** to optimize the image.

4-2-2 (b) VERTICAL LINEARITY ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

To adjust the Vertical Linearity, refer to Tables 4-1 and 4-2 for the tolerance range.

Click on the << or >> box next to **V_LIN** to optimize the image.

4-2-3 Trapezoid Adjustment

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **TRAP** to make the image area rectangular.

| A - B | < 5 mm

Figure 4-4. Trapezoid

4-2-4 Pinbalance Adjustment

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

| D1 |, | D2 | ≤ 2.0 mm

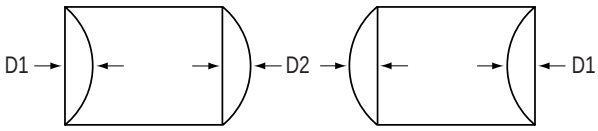


Figure 4-5. Pinbalance

Click on the << or >> box next to **PIN_BAL** to optimize the image.

4-2-5 Parallelogram Adjustment

CONDITIONS

Scanning Frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **PARALL** to make the image are rectangular.

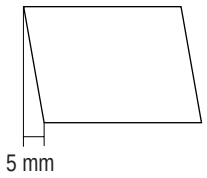


Figure 4-6. Parallelogram

4-2-6 Side Pincushion Adjustment

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **BARREL** to straighten the sides of the image area.

| C1 |, | C2 | ≤ 2.0 mm, | D1 |, | D2 | ≤ 2.0 mm.

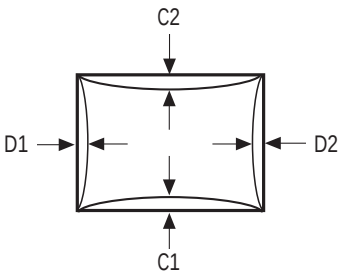


Figure 4-7. Pincushion

4-2-7 Tilt Adjustment

CONDITIONS

Scanning Frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **ROTATE** to correct the tilt of the display.

4-2-8 Degauss

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

4-2-9 To Delete the User Mode Data

To delete the adjustment data from the user modes, Press the **MENU Button** for the 10 Seconds **.**

4-2-10 Save the Data

To save the adjustment data for a mode, press **FACTORY SAVE**.

4-3 Color Adjustments

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:	91 kHz / 85 Hz
Display Size :	395 (H) x 296 (V)
Display image:	White flat field at center of display area
Brightness:	Cut-off
Contrast:	Maximum

PROCEDURE

Use the directions in sections 4-3-2 through 4-3-4 to adjust the color coordinates for:
9300K to x = 0.283 ± 0.02, y = 0.298 ± 0.02
6500K to x = 0.313 ± 0.02, y = 0.329 ± 0.02
5000K to x = 0.346 ± 0.02, y = 0.359 ± 0.02

4-3-2 Color Adjustments for 9300K

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

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Back raster pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Select **COLOR CHANNEL 1** to control the color for 9300K.
2. Adjust the luminance of the back raster to between 0.3 to 1ft-L using the **G_CUT** controls.
3. Click on the << or >> box next to **B_CUT** to set the “y” coordinate to 0.298 ± 0.02.
4. Click on the << or >> box next to **R_CUT** to set the “x” coordinate to 0.283 ± 0.02.

   Note: If the above adjustments cannot be done to each coordinate, click on the << or >> box next to **G_CUT** to decrease or increase the green cutoff (bias) and repeat procedures 2 and 3.

4-3-2 (b) G-GAIN ADJUSTMENT

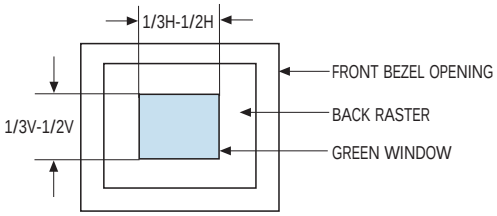


Figure 4-8. Green Box Pattern

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Green box pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Click on the << or >> box next to **G_GAIN** to adjust the brightness of the Green Gain to 25 ± 1 ft-L.

   Note: If you can’t increase the Green Gain to the appropriate value, click on the >> box next to increase the **ABL** point.

4-3-2 (c) WHITE BALANCE ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Full white pattern
Brightness:	Cut-off
Contrast:	Maximum

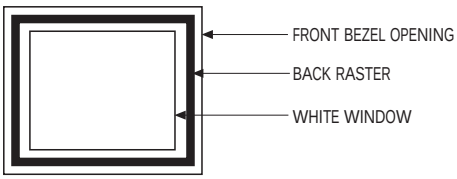


Figure 4-9. Full White Pattern

1. Click on the << or >> boxes next to **R_GAIN** and **B_GAIN** to make the video white. (For 9300K color adjustment: x = 0.283 ± 0.02, y = 0.298 ± 0.02.)

   Note: Do not touch the **G_GAIN** controls.
2. Check the ABL. If it is not within the specifications (29 ± 1 ft-L), use the ABL controls to adjust it.
3. Select **COLOR FACTORY SAVE** to save the data.

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

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Back raster pattern
X-Y Coordinates:	x = 0.283 ± 0.02, y = 0.298 ± 0.02
Raster Luminance	0.3 ~ 1ft-L
ABL Luminance	29 ± 1 ft-L
Brightness:	Cut-off
Contrast:	Maximum

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.

Note: Do not touch the **G_GAIN** controls.

3. Adjust the Contrast Control on the monitor so that the luminance of the video is about 5 ft-L.
4. Check whether the white coordinates of the video meet the above coordinates spec.
5. Adjust the Contrast Control again so that the luminance of the video is about 20 ft-L.
6. 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.

4-3-3 Color Adjustments for 6500K

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

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Back raster pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Select **COLOR CHANNEL 2** to control the color for 6500K.
2. Adjust the luminance of the back raster to between 0.3 to 1.0 ft-L using the **G_CUT** controls.
3. Click on the << or >> boxes next to **R_CUT** and **B_CUT** to adjust the R-Bias to x = 0.313 ± 0.02 and the B-Bias to y = 0.329 ± 0.02.

4-3-3 (b) G-GAIN ADJUSTMENT

This procedure is the same as that for 9300K, refer to the procedure on page 4-5.

4-3-3 (c) WHITE BALANCE ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Full white pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Click on the << or >> boxes next to **R_GAIN** and **B_GAIN** to make the video white. (For 6500K color adjustment: x = 0.313 ± 0.02, y = 0.329 ± 0.02.)
2. Refer to the procedure for 9300K, section 4-3-2 (c) steps 2 and 3.

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

Refer to the procedure for 9300K, section 4-3-2 (d).

4-3-4 Color Adjustments for 5000K

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

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Back raster pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Select **COLOR CHANNEL 3** to control the color for 5000K.
2. Adjust the luminance of the back raster to between 0.3 to 1.0 ft-L using the **G_CUT** controls.
3. Click on the << or >> boxes next to **R_CUT** and **B_CUT** to adjust the R-Bias to x = 0.346 ± 0.02 and the B-Bias to y = 0.359 ± 0.02.

4-3-4 (b) G-GAIN ADJUSTMENT

This procedure is the same as that for 9300K, refer to the procedure on page 4-5.

Adjust the brightness of the **G_GAIN** less 5 ft-L than brightness of procedure for 9300K.

4-3-4 (c) WHITE BALANCE ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Full white pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Click on the << or >> boxes next to **R_GAIN** and **B_GAIN** to make the video white. (For 5000K color adjustment: x = 0.346 ± 0.02, y = 0.359 ± 0.02.)
2. Refer to the procedure for 9300K, section 4-3-2 (c) steps 2 and 3.

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

Refer to the procedure for 9300K, section 4-3-2 (d).

4-3-5 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:	91 kHz / 85 Hz (1280 x 1024)
Display image:	White flat field
Display size	395 (H) x 296 (V)
Brightness:	Cut off point
Contrast:	Maximum

PROCEDURE

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

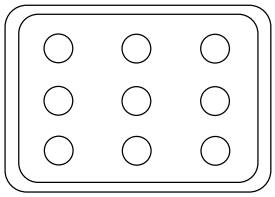


Figure 4-10 Luminance Uniformity Check Locations

4-3-6 Focus Adjustment

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
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.

4-3-7 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:	91 kHz / 85 Hz
Display image:	Green 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. Very carefully break the glue seal between the 2-pole purity convergence magnets (PCM), the band and the spacer.
3. Make sure the spacing between the PCM assembly and the CRT stem is 29 mm ± 1 mm.
4. Display a green pattern over the entire display area.
5. Adjust the purity magnet rings on the PCM assembly to display a pure green pattern. (Optimum setting: x = 0.295 ± 0.015, y = 0.594 ± 0.015)
6. Repeat steps 4 and 5 using a red pattern and then again, using a blue pattern.

Table 4-2. Color Purity Tolerances

Red:	x = 0.620 ± 0.015	y = 0.334 ± 0.015
Green:	x = 0.289 ± 0.015	y = 0.595 ± 0.015
Blue:	x = 0.153 ± 0.015	y = 0.072 ± 0.015

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

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

Memo

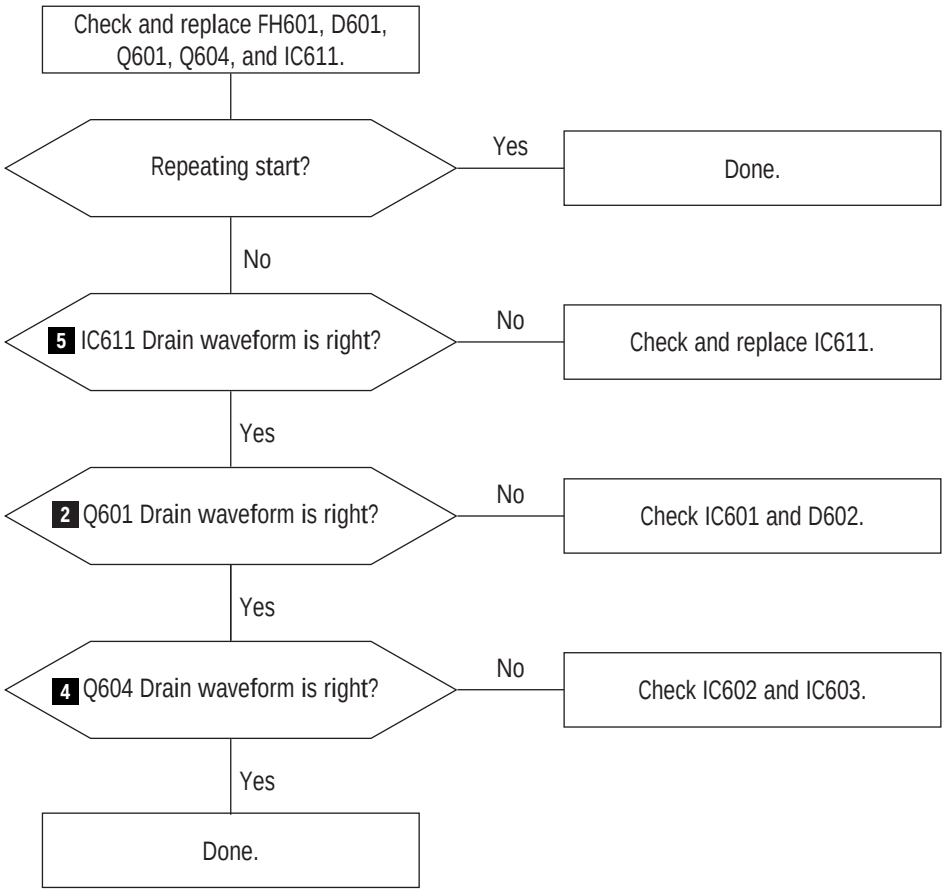
5 Troubleshooting

5-1 Parts Level Troubleshooting

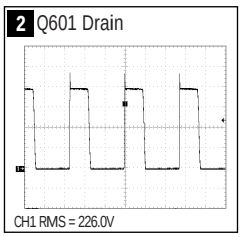
Notes: 1. If a picture does not appear, fully rotate the brightness and contrast controls clockwise and reinspect.

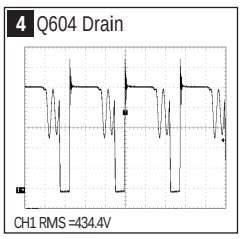
2. Check the following circuits.
   - No raster appears: Power circuit, Horizontal output circuit, H/V control circuit, and H/V output circuit.
   - High voltage develops but no raster appears: Video output circuits.
   - High voltage does not develop: Horizontal output circuits.

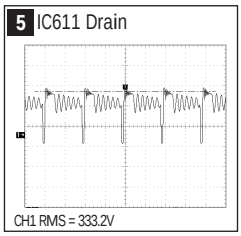
5-1-1 No Power Supply



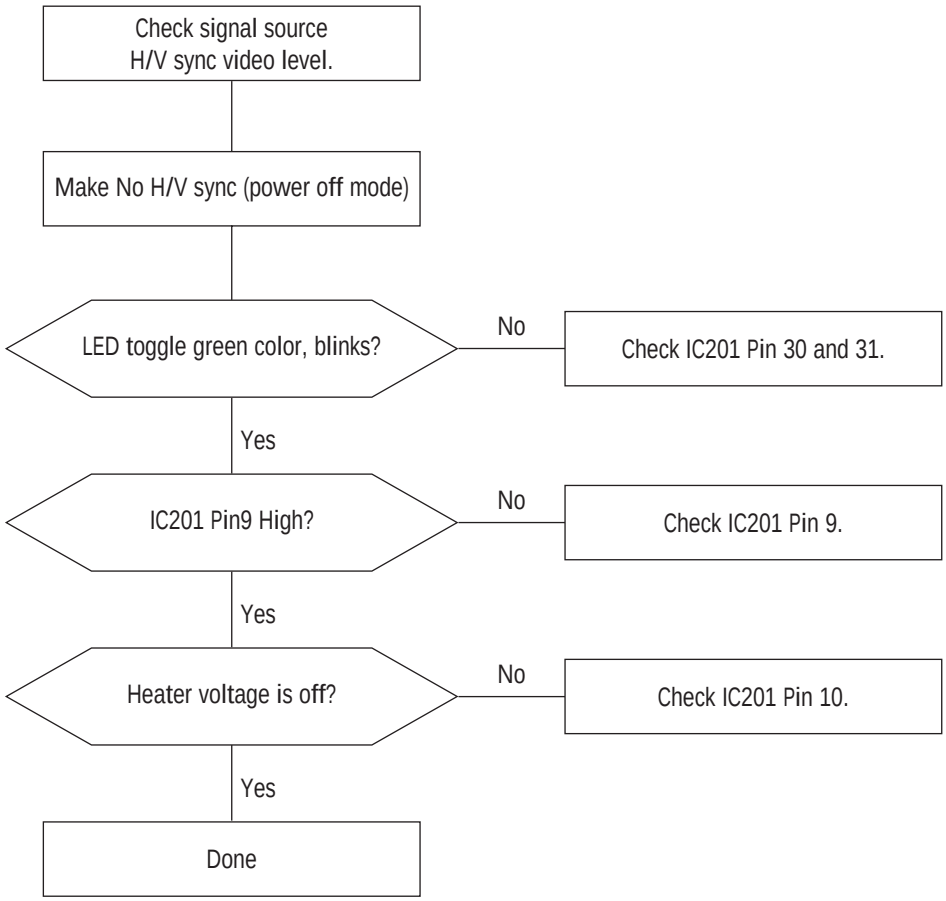
WAVEFORMS



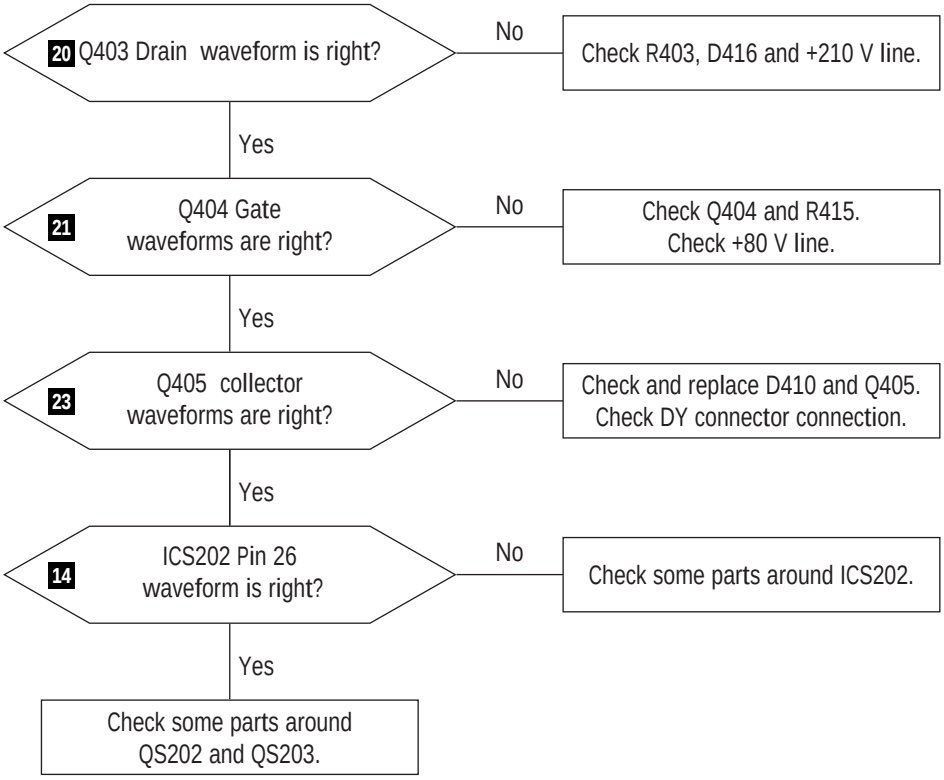




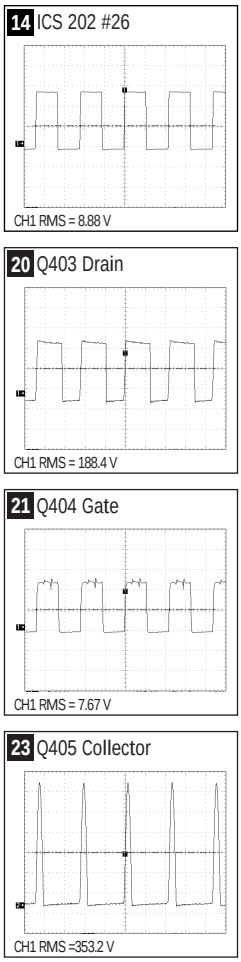
5-1-2 DPMS Failure



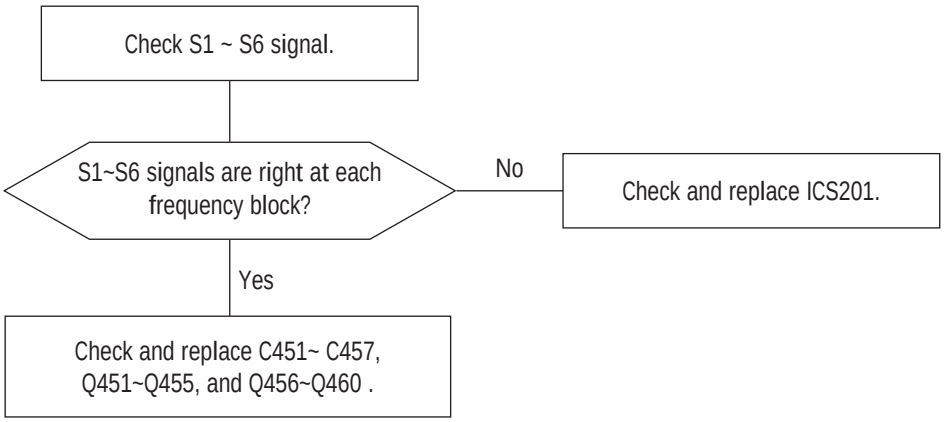
5-1-3 H_Deflection Failure



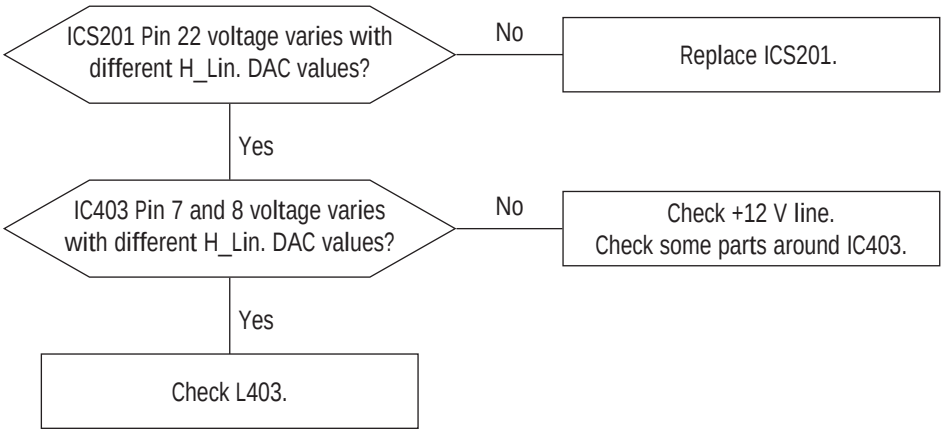
WAVEFORMS



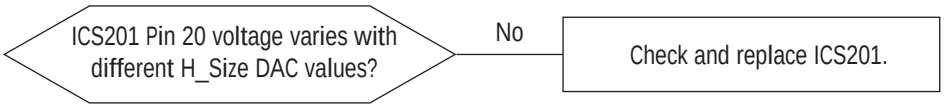
5-1-4 S_Correction Failure



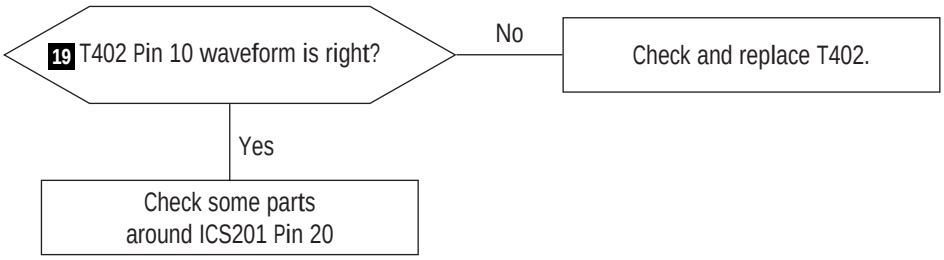
5-1-5 H_Lin. Failure



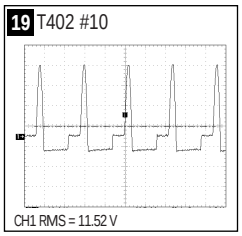
5-1-6 Invariable H_Size



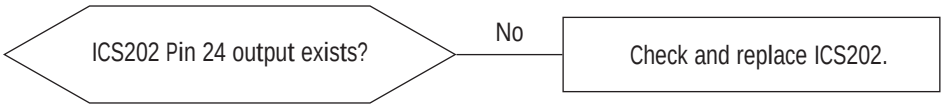
5-1-7 Abnormal H_Size



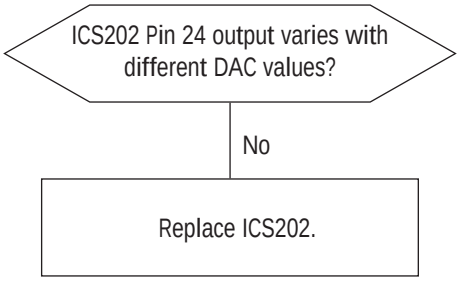
WAVEFORMS



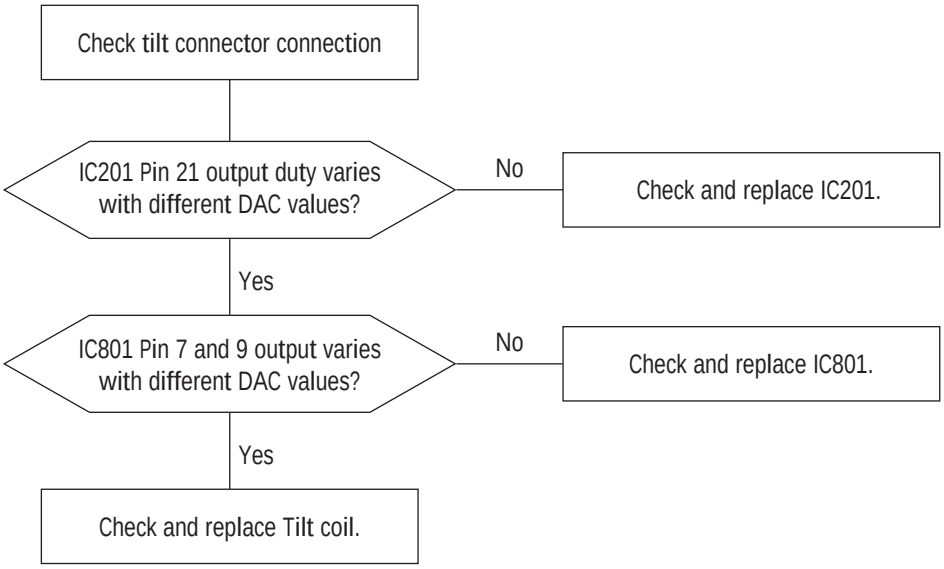
5-1-8 Side Pin or Trap Failure



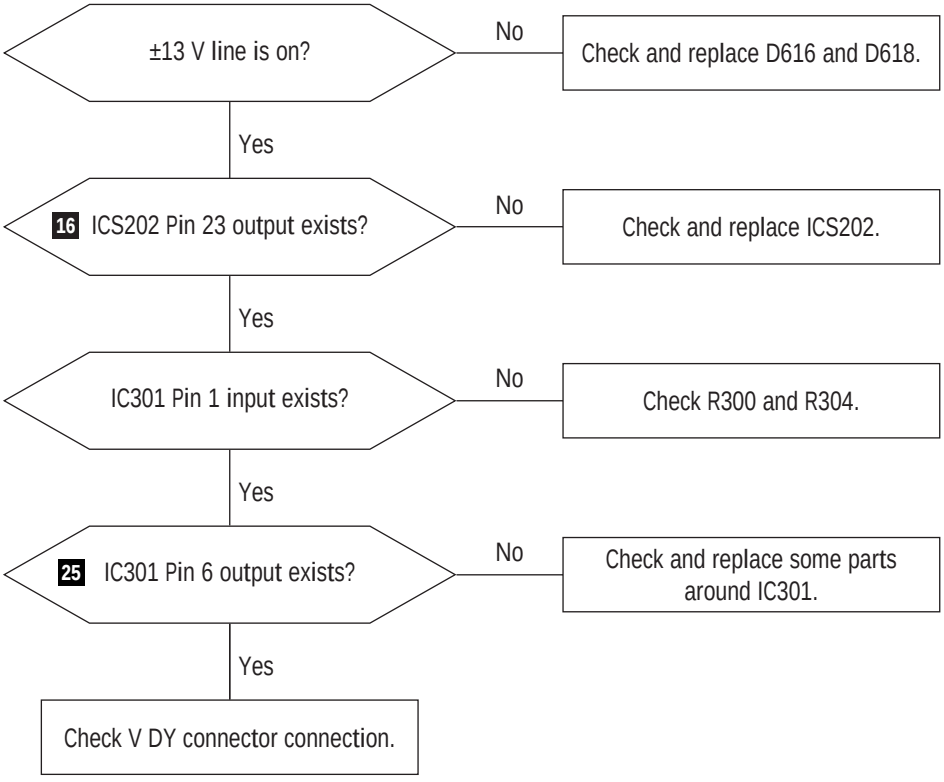
5-1-9 Para. or Pin Balance Failure

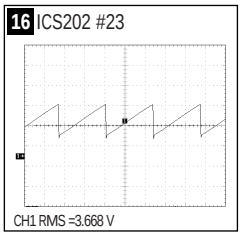


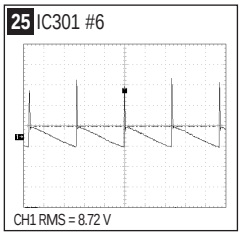
5-1-10 Tilt Failure



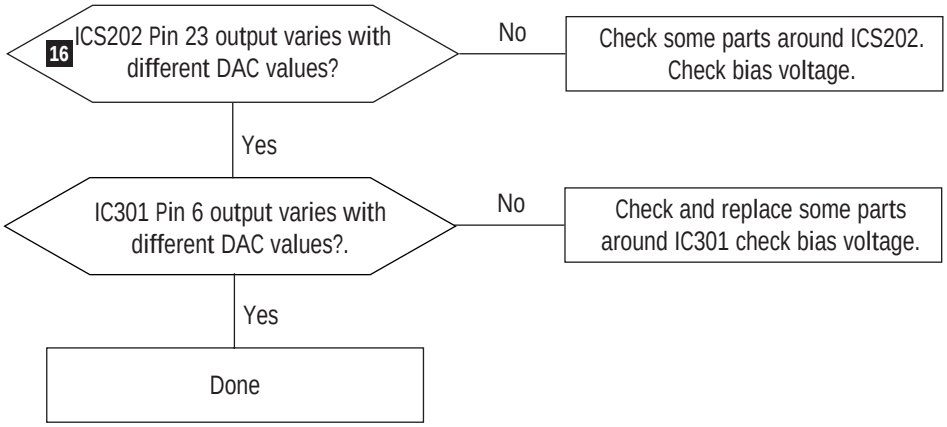
5-1-11 V Deflection Failure

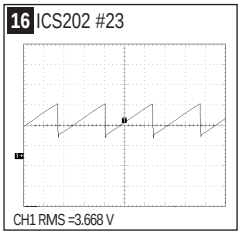




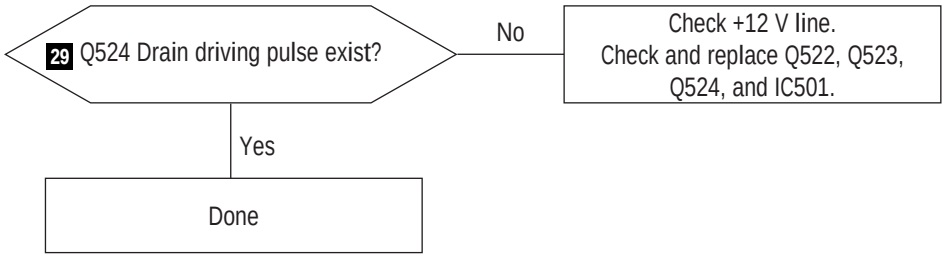


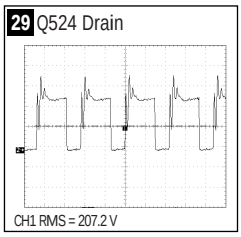
5-1-12 V Size or Pos. Variation Failure



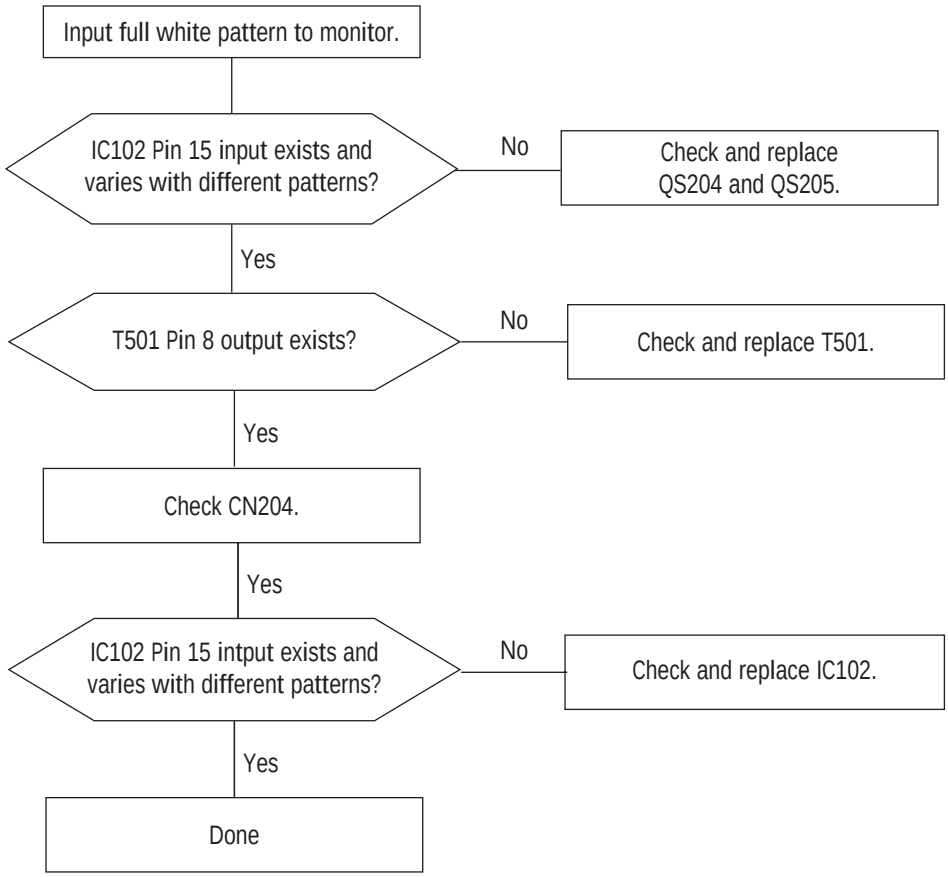


5-1-13 High Voltage Failure

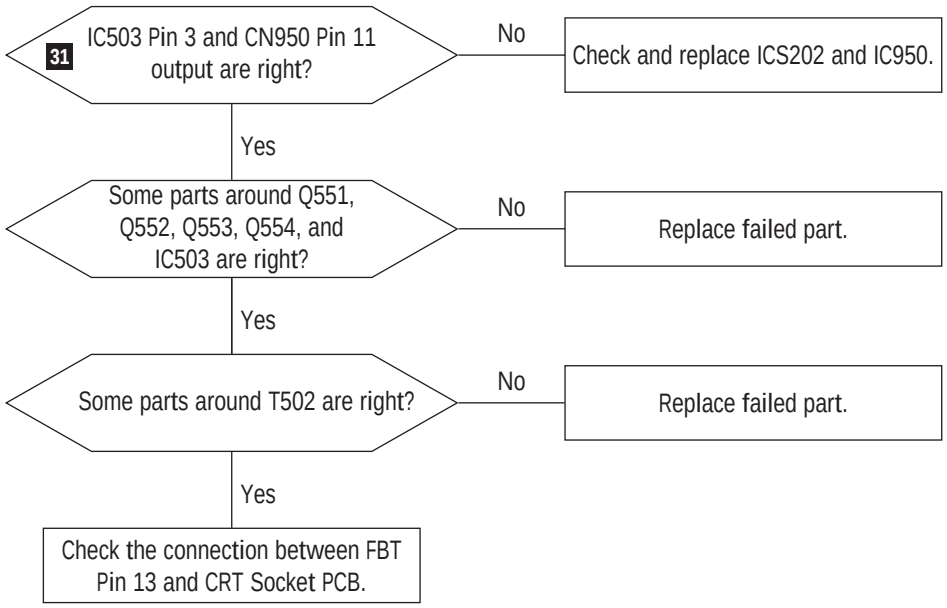




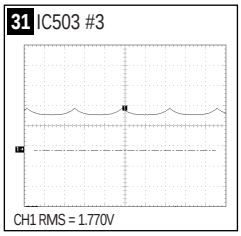
5-1-14 ABL Failure



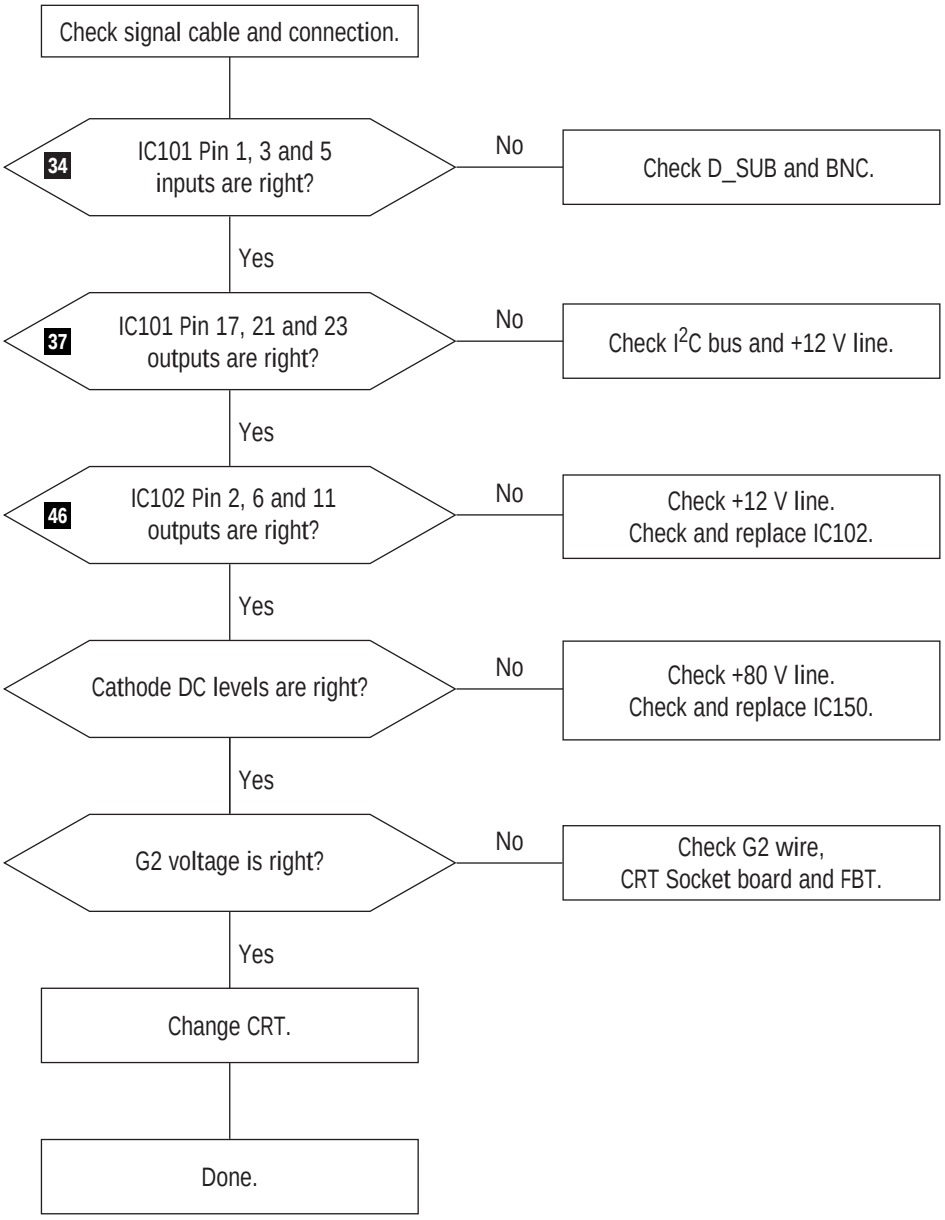
5-1-15 Dynamic Focus Failure



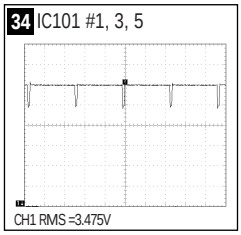
WAVEFORMS

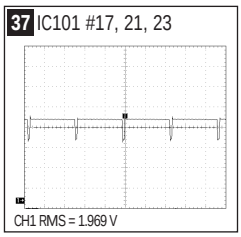


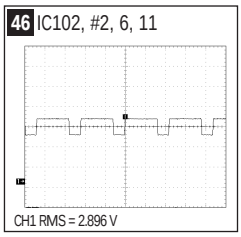
5-1-16 No Video



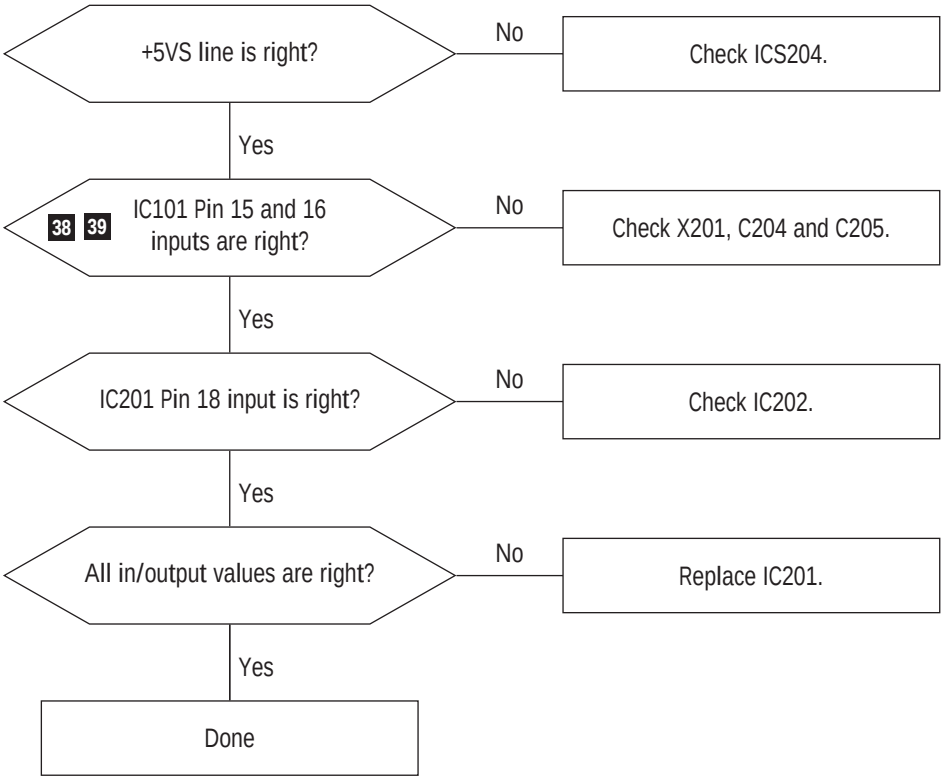
WAVEFORMS



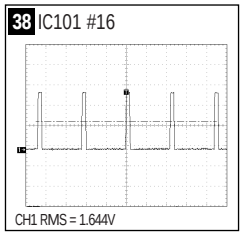


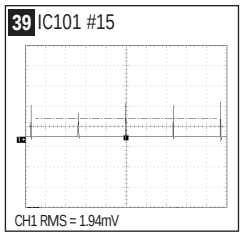


5-1-17 Micom Failure

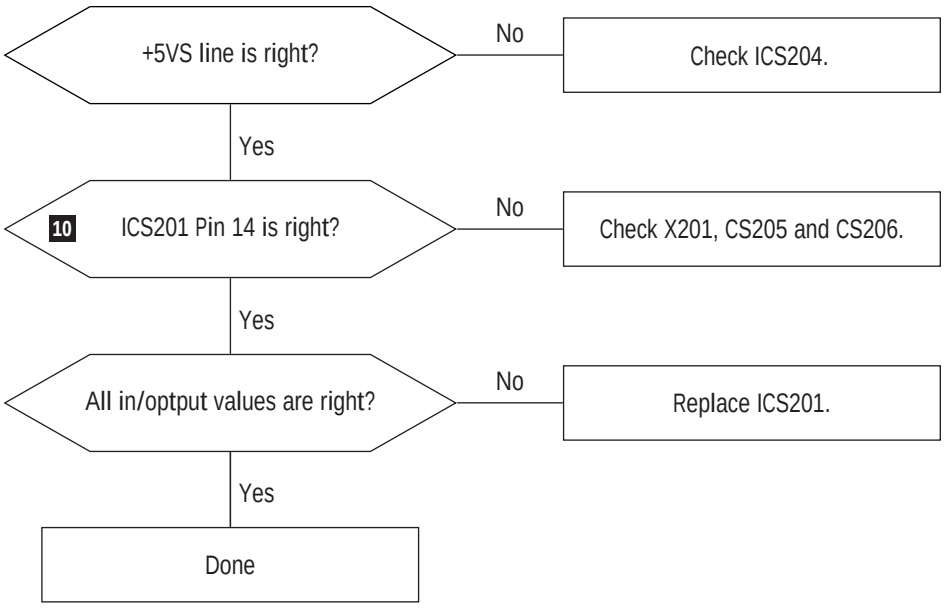


WAVEFORMS

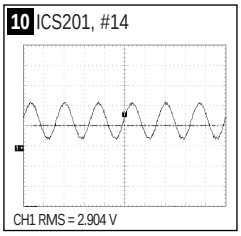




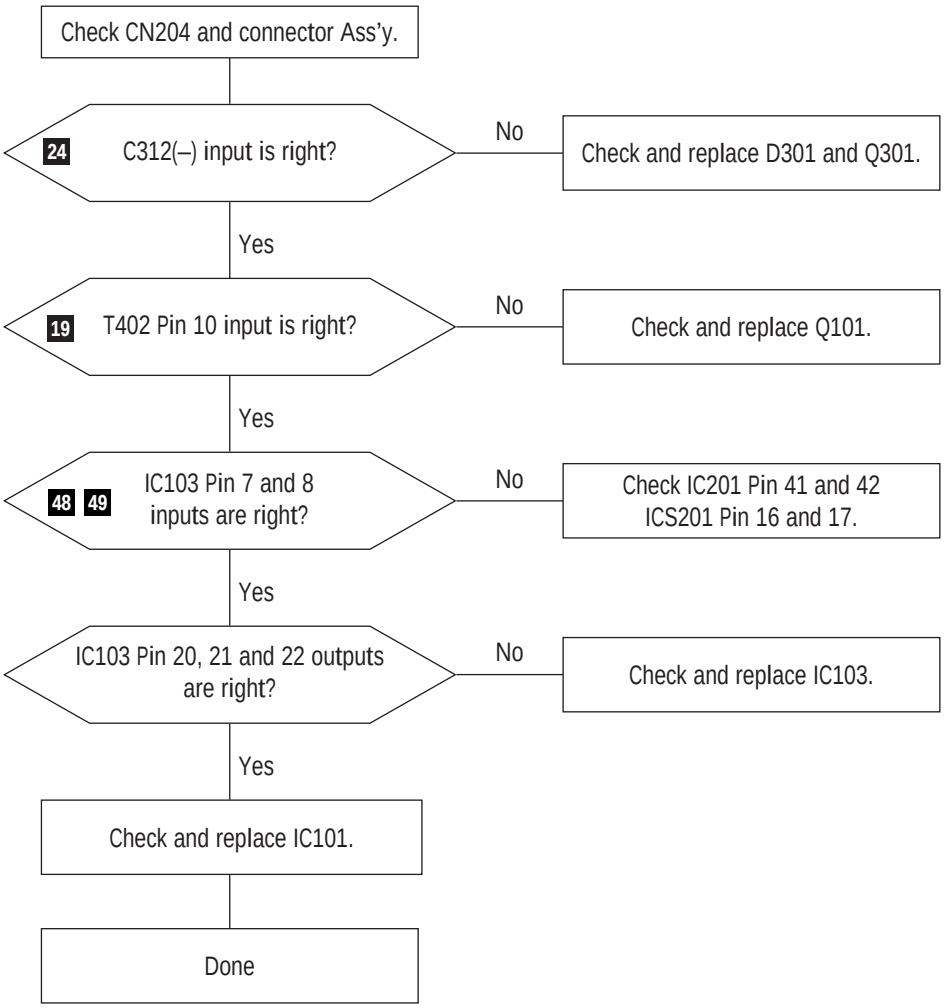
5-1-18 Sub-Micom Failure



WAVEFORMS

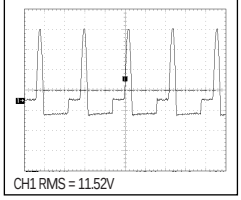


5-1-19 OSD Failure

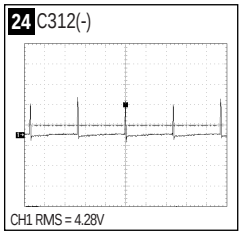


WAVEFORMS

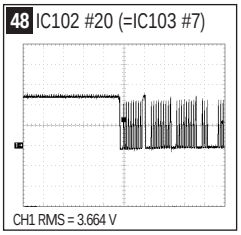
19 T402 #10



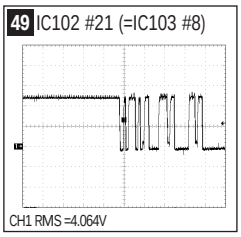
24 C312(-)



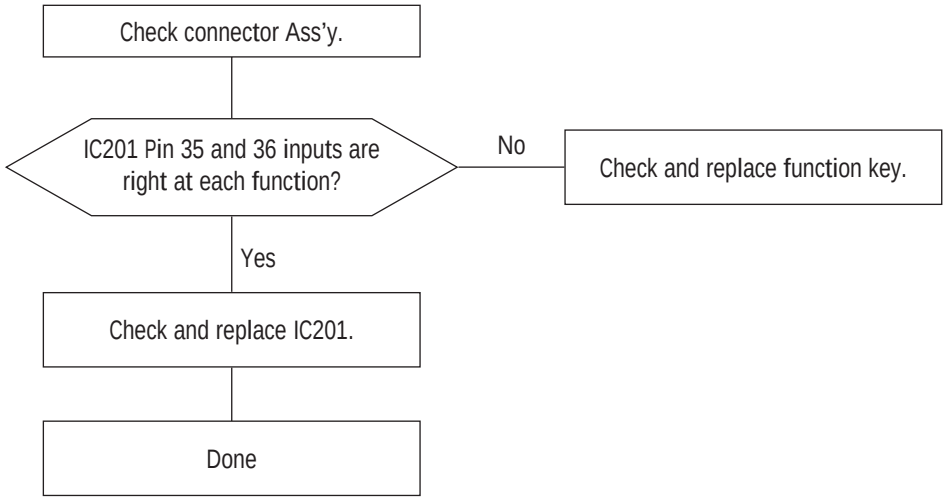
48 IC102 #20 (=IC103 #7)



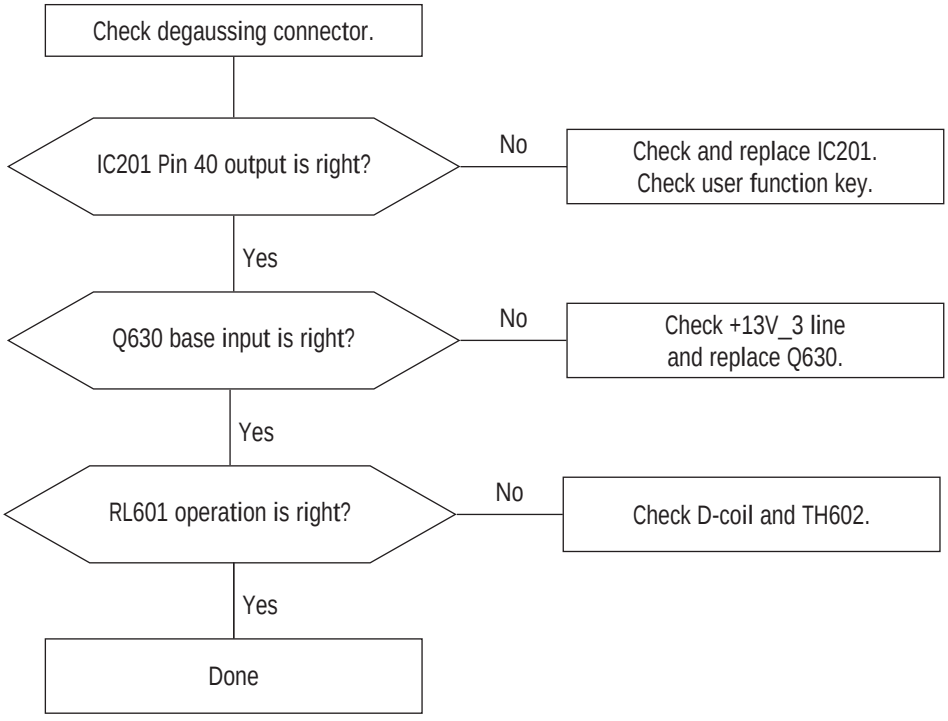
49 IC102 #21 (=IC103 #8)



5-1-20 User Control Failure

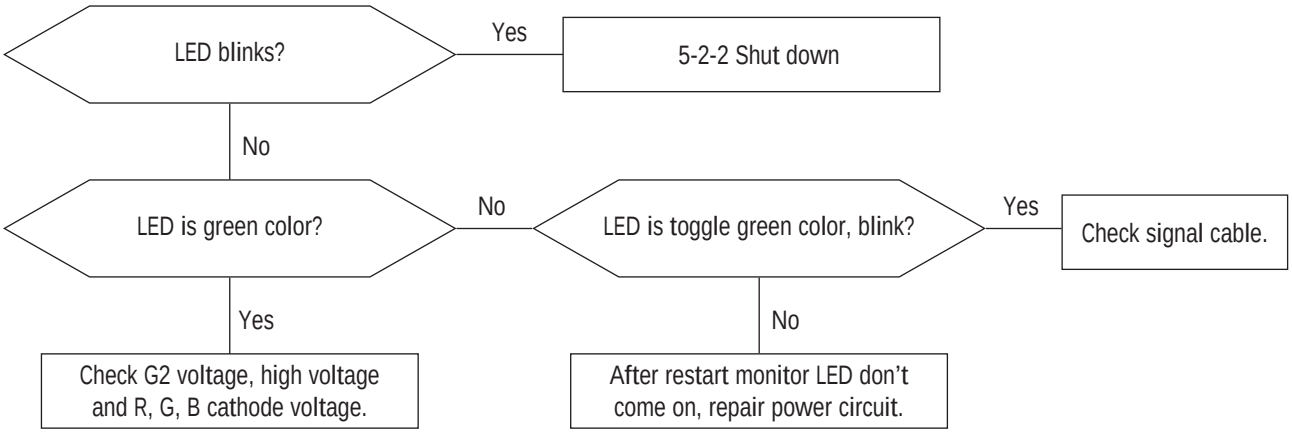


5-1-21 Degaussing Failure

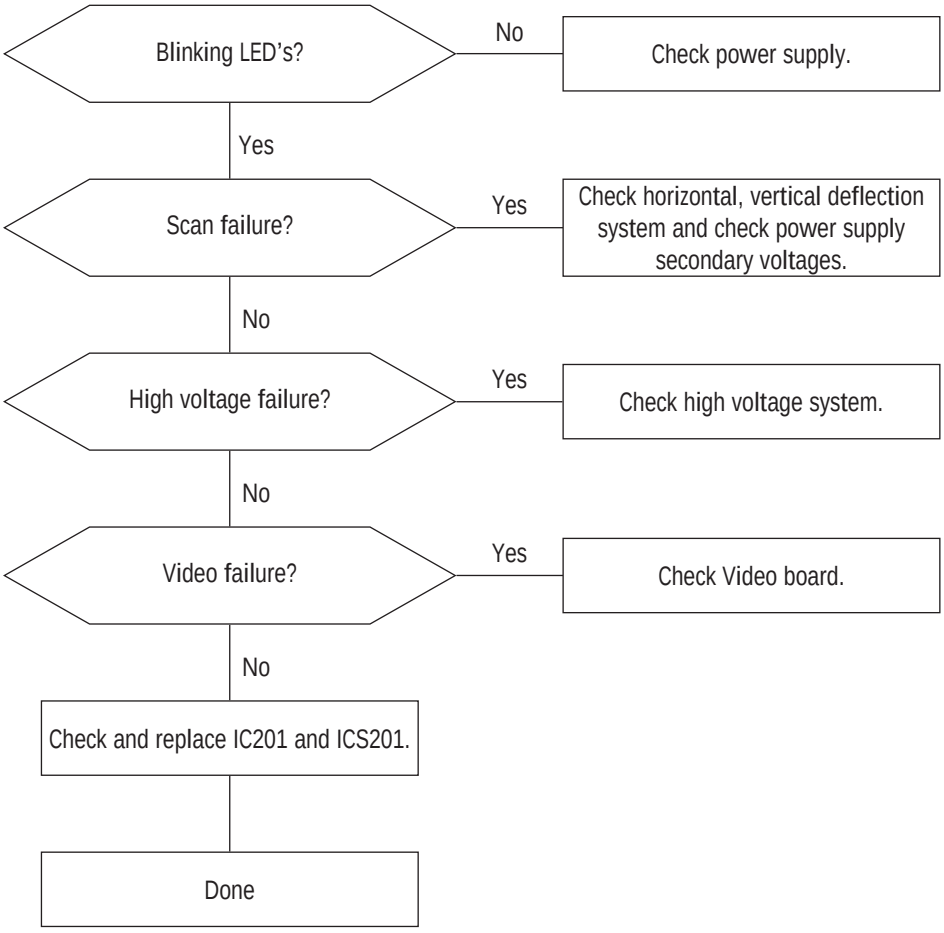


5-2 General Troubleshooting

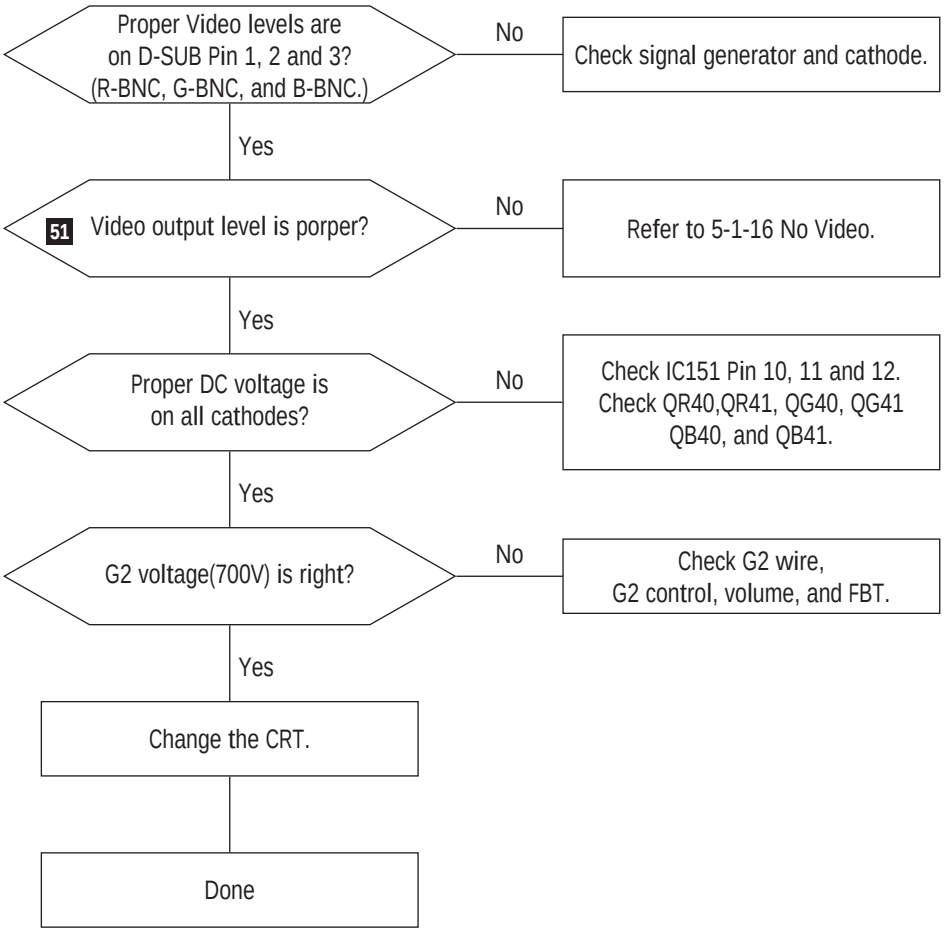
5-2-1 No Picture



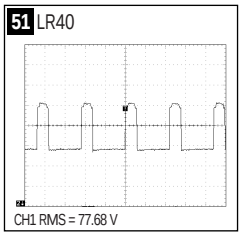
5-2-2 Shut Down



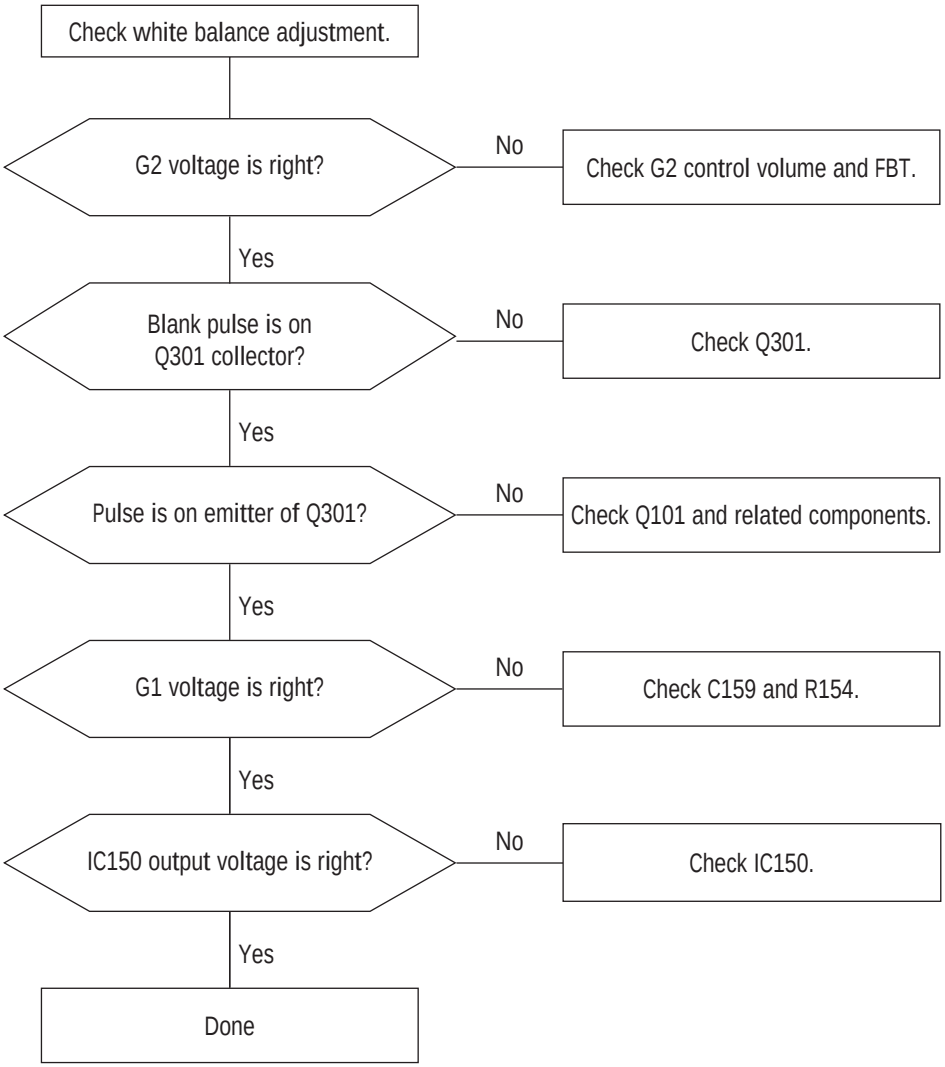
5-2-3 Missing Color



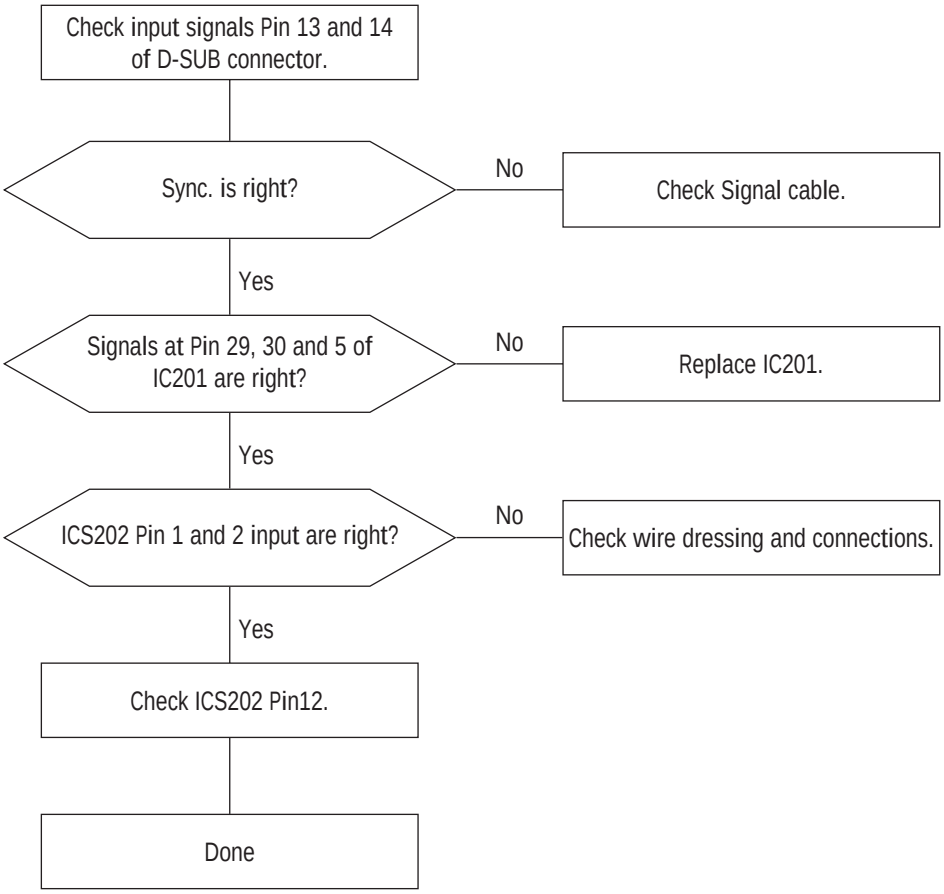
WAVEFORMS



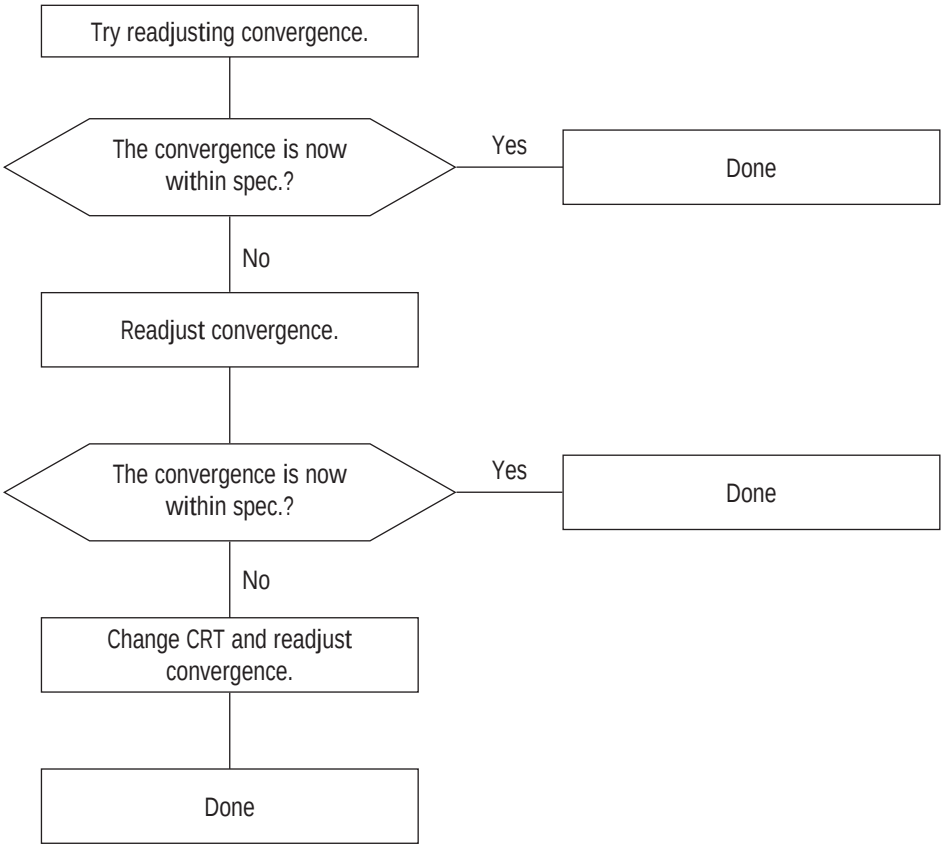
5-2-4 Visible Retrace



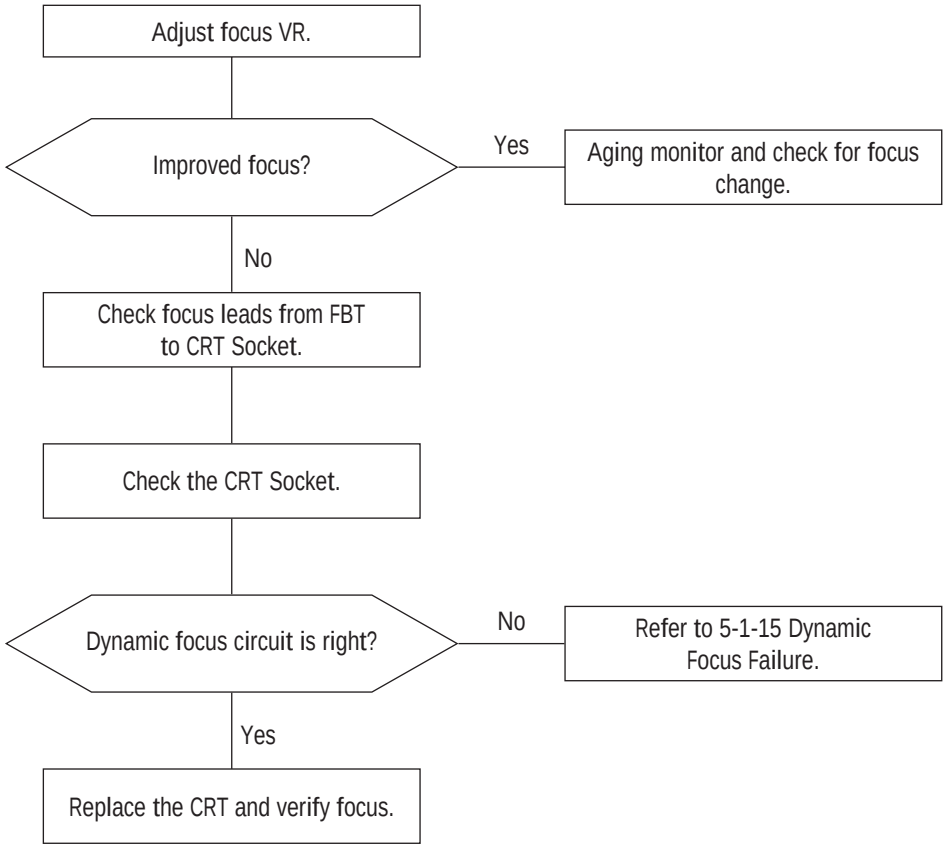
5-2-5 Unsynchronized Image



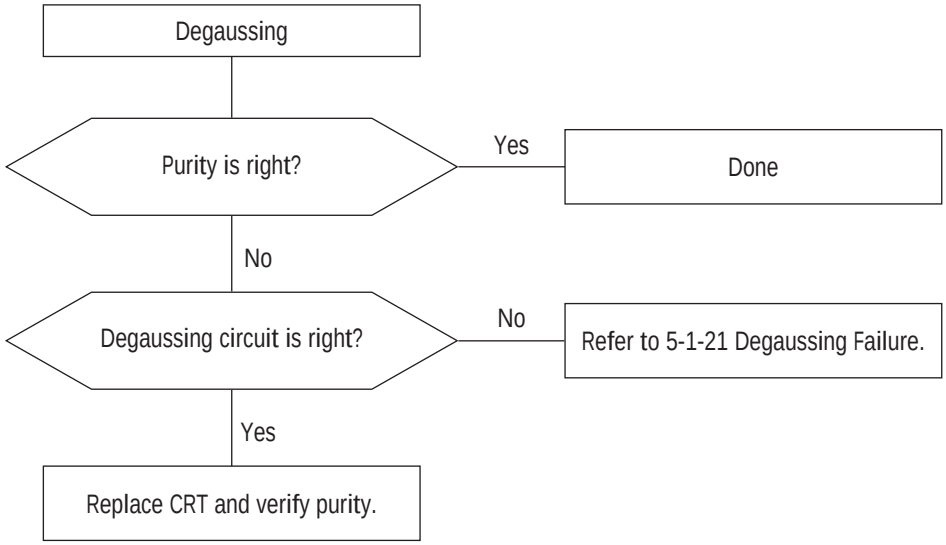
5-2-6 Misconvergence



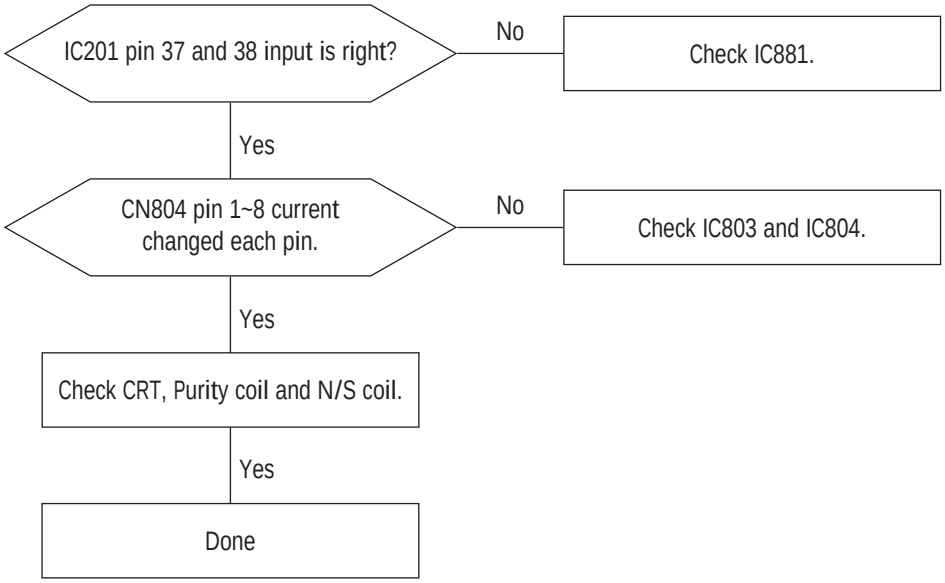
5-2-7 Poor Focus



5-2-8 Purity Failure



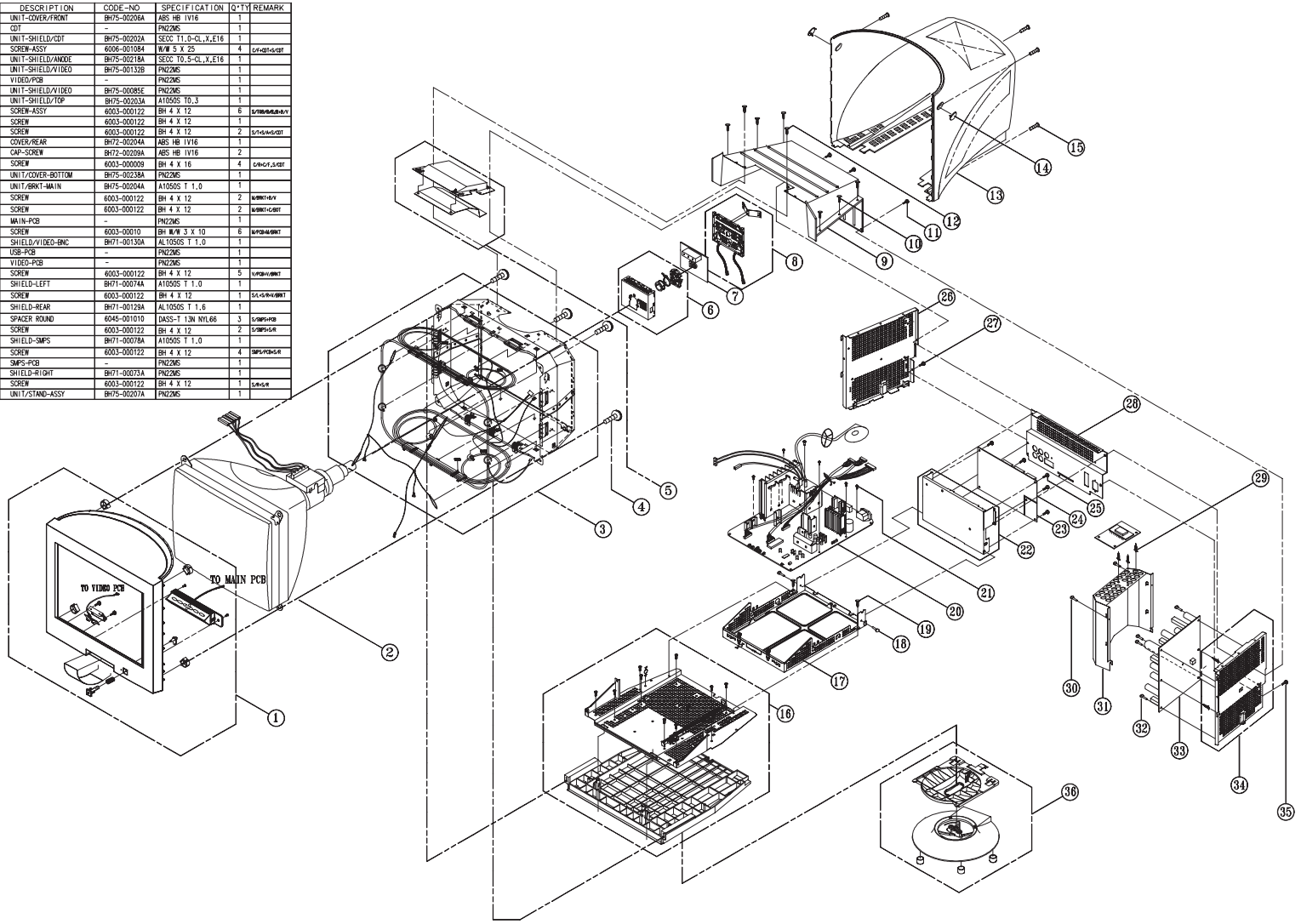
5-2-9 Purity Direction



6 Exploded View and Parts List

PN22N**

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
1	UNIT-COVER/FRONT	BH75-00206A	ABS HB IV16	1	
2	CDT	-	PN22MS	1	
3	UNIT-SHIELD/CDT	BH75-00202A	SECC T1.0-CL,X,E16	1	
4	SCREW-ASSY	6006-001084	W/W 5 X 25	4	C/F+CDT+S/CDT
5	UNIT-SHIELD/ANODE	BH75-00218A	SECC T0.5-CL,X,E16	1	
6	UNIT-SHIELD/VIDEO	BH75-00132B	PN22MS	1	
7	VIDEO/PCB	-	PN22MS	1	
8	UNIT-SHIELD/VIDEO	BH75-00085E	PN22MS	1	
9	UNIT-SHIELD/TOP	BH75-00203A	A1050S T0.3	1	
10	SCREW-ASSY	6003-000122	BH 4 X 12	6	S/BRKT+B/V
11	SCREW	6003-000122	BH 4 X 12	1	
12	SCREW	6003-000122	BH 4 X 12	2	S/T+S/A+S/CDT
13	COVER/REAR	BH72-00204A	ABS HB IV16	1	
14	CAP-SCREW	BH72-00209A	ABS HB IV16	2	
15	SCREW	6003-000009	BH 4 X 16	4	C/B+C/F,S/CDT
16	UNIT/COVER-BOTTOM	BH75-00238A	PN22MS	1	
17	UNIT/BRKT-MAIN	BH75-00204A	A1050S T 1.0	1	
18	SCREW	6003-000122	BH 4 X 12	2	M/BRKT+B/V
19	SCREW	6003-000122	BH 4 X 12	2	M/BRKT+C/BOT
20	MAIN-PCB	-	PN22MS	1	
21	SCREW	6003-00010	BH W/W 3 X 10	6	M/PCB+M/BRKT
22	SHIELD/VIDEO-BNC	BH71-00130A	AL1050S T 1.0	1	
23	USB-PCB	-	PN22MS	1	
24	VIDEO-PCB	-	PN22MS	1	
25	SCREW	6003-000122	BH 4 X 12	5	V/PCB+V/BRKT
26	SHIELD-LEFT	BH71-00074A	A1050S T 1.0	1	
27	SCREW	6003-000122	BH 4 X 12	1	S/L+S/R+V/BRKT
28	SHIELD-REAR	BH71-00129A	AL1050S T 1.6	1	
29	SPACER ROUND	6045-001010	DASS-T 13N NYL66	3	S/SMPS+PCB
30	SCREW	6003-000122	BH 4 X 12	2	S/SMPS+S/R
31	SHIELD-SMPS	BH71-00078A	A1050S T 1.0	1	
32	SCREW	6003-000122	BH 4 X 12	4	SMPS/PCB+S/R
33	SMPS-PCB	-	PN22MS	1	
34	SHIELD-RIGHT	BH71-00073A	PN22MS	1	
35	SCREW	6003-000122	BH 4 X 12	1	S/R+S/R
36	UNIT/STAND-ASSY	BH75-00207A	PN22MS	1	

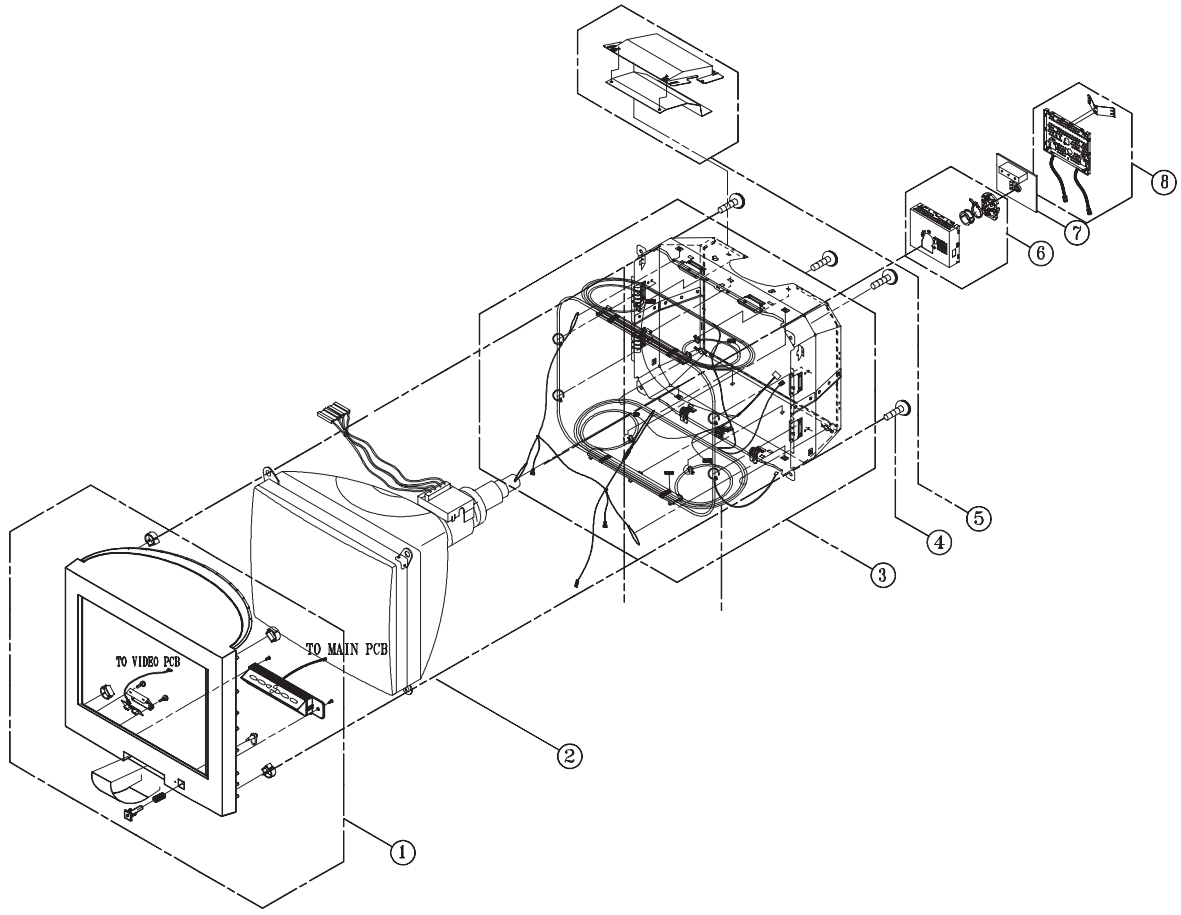


Memo

6 Exploded View and Parts List

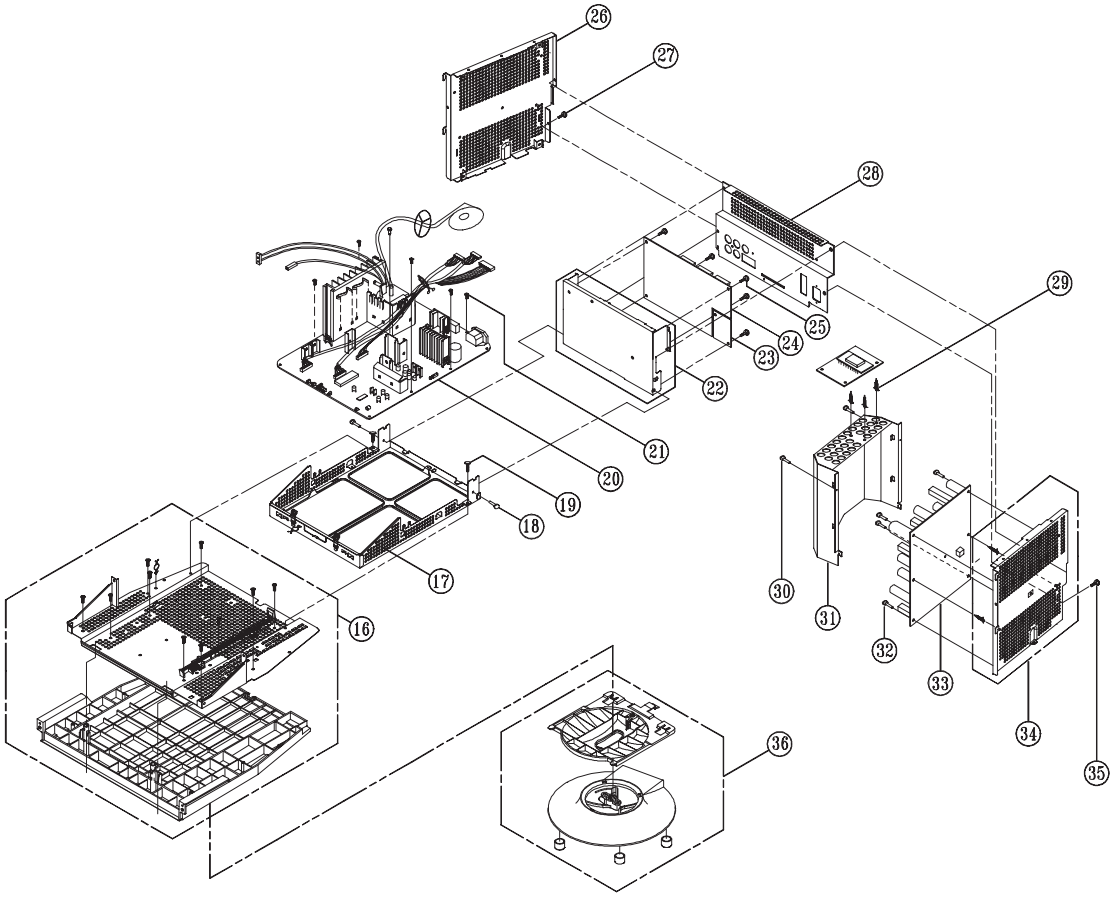
6-1 Front Cover & CRT Ass'y

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
1	UNIT-COVER/FRONT	BH75-00206A	ABS HB IV16	1	
2	CDT	-	PN22MS	1	
3	UNIT-SHIELD/CDT	BH75-00202A	SECC T1.0-CL,X,E16	1	
4	SCREW-ASSY	6006-001084	W/W 5 X 25	4	C/F+CDT+S/CDT
5	UNIT-SHIELD/ANODE	BH75-00218A	SECC T0.5-CL,X,E16	1	
6	UNIT-SHIELD/VIDEO	BH75-00132B	PN22MS	1	
7	VIDEO/PCB	-	PN22MS	1	
8	UNIT-SHIELD/VIDEO	BH75-00085E	PN22MS	1	



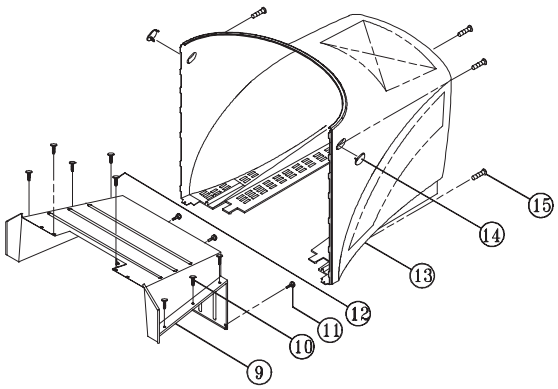
6-2 Chassis & Stand Ass'y

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
16	UNIT/COVER-BOTTOM	BH75-00238A	PN22MS	1	
17	UNIT/BRKT-MAIN	BH75-00204A	A1050S T 1.0	1	
18	SCREW	6003-000122	BH 4 X 12	2	M/BRKT+B/V
19	SCREW	6003-000122	BH 4 X 12	2	M/BRKT+C/BOT
20	MAIN-PCB	-	PN22MS	1	
21	SCREW	6003-00010	BH W/W 3 X 10	6	M/PCB+M/BRKT
22	SHIELD/VIDEO-BNC	BH71-00130A	AL1050S T 1.0	1	
23	USB-PCB	-	PN22MS	1	
24	VIDEO-PCB	-	PN22MS	1	
25	SCREW	6003-000122	BH 4 X 12	5	V/PCB+V/BRKT
26	SHIELD-LEFT	BH71-00074A	A1050S T 1.0	1	
27	SCREW	6003-000122	BH 4 X 12	1	S/L+S/R+V/BRKT
28	SHIELD-REAR	BH71-00129A	AL1050S T 1.6	1	
29	SPACER ROUND	6045-001010	DASS-T 13N NYL66	3	S/SMPS+PCB
30	SCREW	6003-000122	BH 4 X 12	2	S/SMPS+S/R
31	SHIELD-SMPS	BH71-00078A	A1050S T 1.0	1	
32	SCREW	6003-000122	BH 4 X 12	4	SMPS/PCB+S/R
33	SMPS-PCB	-	PN22MS	1	
34	SHIELD-RIGHT	BH71-00073A	PN22MS	1	
35	SCREW	6003-000122	BH 4 X 12	1	S/R+S/R
36	UNIT/STAND-ASSY	BH75-00207A	PN22MS	1	



6-3 Rear Cover Ass'y

NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
9	UNIT-SHIELD/TOP	BH75-00203A	A1050S T0.3	1	
10	SCREW-ASSY	6003-000122	BH 4 X 12	6	S/T0B/F8/B,B+B/V
11	SCREW	6003-000122	BH 4 X 12	1	
12	SCREW	6003-000122	BH 4 X 12	2	S/T+S/A+S/CDT
13	COVER/REAR	BH72-00204A	ABS HB IV16	1	
14	CAP-SCREW	BH72-00209A	ABS HB IV16	2	
15	SCREW	6003-000009	BH 4 X 16	4	C/R+C/F,S/CDT



7 Electrical Parts List

7-1 Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
BOTTOM	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
BOTTOM	2301-000148	"C-FILM,PEF"	"10nF,5%,100V,TP,7x3.2x7mm,5mm"	
C412	2301-001404	"C-FILM,PPF"	"2.7nF,5%,3kV,TP,21x16x10mm,7.5"	⚠
C453	2306-000147	"C-FILM,MPPF"	"1uF,5%,250V,BK,26x24x15,22.5mm"	
C454	2306-000234	"C-FILM,MPPF"	"560nF,5%,250V,BK,26x20x13,20"	
C497	2301-001349	"C-FILM,MPPF"	"1300nF,5%,250V,BK,4.4x18.7x11.5,20"	
CIS	6045-001012	SPACER-ROUND	"ID4.0,OD9.6,-,NTR,NYLON6/6,L31.0"	
CIS	BH39-00203A	CBF-HARNESS	"PN22MS,UL1007,UL/CSA,13P,500MM,BLU/WHT/RED/YEL,AWG26,SMH250,-,-,-,-,-,-,-,CBF-CO"	
CIS	BH39-00206A	CBF-HARNESS	"PN22MS,UL1007,UL/CSA,4P/6P,250MM,BLU/WHT/RED/YEL,AWG26,SMH250,-,-,-,-,-,-,-,CBF-"	
CIS	BH39-00207A	CBF-HARNESS	"PN22MS,UL1015,UL/CSA,10P/6P/3P,450MM,RED/YEL/GRN/BLK,AWG18,YH396,-,-,-,-,-,-,-,C"	
CIS	BH71-00129A	SHIELD-REAR	"A1050S,0.3,-,-,-,-,-,PN22MS"	
CIS	BH75-00204A	UNIT/BRKT-MAIN	"PN22MS,-,A1050S T1.0,-,-,-,-"	
CIS	BH75-00238A	UNIT/COVER-BOTTOM	"PN2MS,-,ABS HB,-,IV16,-,-"	
CIS	BH46-00001W	"MICOM-S/W,PN22MS(PHOENIX)"	"PN22MS(PHOENIX),-,-,-,-,-,-"	
CN401	3711-000296	CONNECTOR-HEADER	"1WALL,6P,1R,3.96mm,STRAIGHT,SN"	
CN901	3711-000012	CONNECTOR-HEADER	"BOX,4P,1R,2.5mm,STRAIGHT,SN"	
CN902	3711-004661	CONNECTOR-HEADER	"NOWALL,21P/22P(17),1R,2.54mm,STRAIGHT,AUF"	
CNS201	3711-004067	CONNECTOR-HEADER	"BOX,4P,1R,2mm,ANGLE,SN"	
CNS202	3711-004661	CONNECTOR-HEADER	"NOWALL,21P/22P(17),1R,2.54mm,STRAIGHT,AUF"	
CNS203	3711-003133	CONNECTOR-HEADER	"BOX,13P,1R,2.5mm,STRAIGHT,SN"	
CNS211	3711-004068	CONNECTOR-HEADER	"BOX,5P,1R,2mm,ANGLE,SN"	
D409	0402-001394	DIODE-RECTIFIER	"SB540,40V,5A,DO-201AD,BK"	
D416	0402-001273	DIODE-RECTIFIER	"31DF4,400V,3A,DO-201AD,BK"	
D524	0402-001295	DIODE-RECTIFIER	"GUR460L-5700,600V,4A,DO-201AD,BK"	
D526	0402-001295	DIODE-RECTIFIER	"GUR460L-5700,600V,4A,DO-201AD,BK"	
HS301	6502-000001	CABLE CLAMP	"DAWH-5NB,D15,L35,NTR,NYLON66"	
HS504	6502-000001	CABLE CLAMP	"DAWH-5NB,D15,L35,NTR,NYLON66"	
IC403	BH13-00009A	IC-H/V CONVERGENCE	"PG17/19,AN5452,SIP,12P,H/V CONVERGENCE,-,1171MW"	
ICS201	0903-001194	IC-MICROCONTROLLER	"3P863,8Bit,SDIP,42P,600MIL,12MHz,ST,CMOS,PLASTIC,5V,-,-40to+85C,1040BYTE,48KBYTE"	
ICS201_SOCK	3704-001071	SOCKET-IC	"42P,DIP,SN,1.778mm"	
ICS202	1204-001697	IC-DEF. PROCESSOR	"TDA9112,DIP,32P,350MIL,PLASTIC,13.2V,-,0to+70C,ST,DEF.PROCESSOR"	
L402	BH27-20345J	COIL-HORIZ.CENTER	"3.5mH, OB6*30-1HHA,BULK, USTC0.08*8#,6.0ohm,3.0mH"	
L403	BH26-00062A	TRANS-H.LINEARITY	"49MH/3.5UH,5PIN,DR1420*2,YL-81(C:6.0),49.0MH/3.5UH,-,-"	⚠
L499	BH27-00038A	COIL-CHOKE	"70uH,-,DR0811(C:3.5),BK,-,-"	
L521	BH27-00018A	COIL-CHOKE	"6.8UH,-,DR08*11,BULK,+/-10%,-"	
M/PCB	BH73-60304C	RUBBER-SUPPORT	"DP15LT,CR V0,GRAY,-,14*7*10,-,-"	
M/PCB+B/BTM	6003-000010	SCREW-TAPTITE	"BWH,+,B,M3,L10,ZPC(YEL),SWRCH1"	
Q404	0505-001357	FET-SILICON	"SKS4N20,N,200V,3A,1.3OHM,27W,TO-220F"	
R410	2006-001087	R-CEMENT	"3.3ohm,5%,5W,CH,BK,9.5x9.5x27mm"	
R411	2003-000505	R-METAL OXIDE(S)	"150ohm,5%,3W,AA,TP,6x16mm"	
R412	2003-000483	R-METAL OXIDE(S)	"120ohm,5%,3W,AA,TP,6x16mm"	
R421	2006-001063	R-CEMENT	"75OHM,5%,5W,CA,BK,9.5X22X9.5MM"	
R437	2006-001087	R-CEMENT	"3.3ohm,5%,5W,CH,BK,9.5x9.5x27mm"	
R539	2006-001066	R-CEMENT	"33OHM,5%,7W,CS,BK,9X10X54MM"	
RL499	3501-001111	RELAY-POWER	"12Vdc,250mW,5A,1FormA,15mS,5mS"	
T401	BH26-00081A	TRANS HORIZ.DRIVE	"4.3mH,10P,EI-2820,PL-3,PM-2,J2A-1,4.3mH/120uH,20uH MAX,EI-2820"	⚠

Loc. No.	Code No.	Description	Specification	Remarks
T402	BH26-00080A	TRANS-HOR.PULSE	"1.1mH,12P,EI-3530,PL3,J2A-1,PM2,1.1mH/0.70uH,400uH MAX,EI-3026"	⚠
T501	BH26-00038A	TRANS-FBT	"90UH,14P,FUR3658,SM19D,-,-,FKH-19A003"	⚠
T502	BH26-00086A	TRANS-FOCUS	"EE1916,-,5P,1.7mH MIN,-,-,255mH MIN,-,-,0.85ohm/32.0ohm,-,EE1916(PL3,SL-2),EE19*"	⚠
VR401	2103-001049	VR-SEMI	"100ohm,30%,1/5W,SIDE"	
BD400	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"	
BD501	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD503	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD532	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BDS203	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BDS204	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BDS205	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BDS206	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
C301	2401-000142	C-AL	"1000uF,20%,16V,WT,TP,10x20,5"	
C302	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C303	2301-000004	"C-FILM,PEF"	"2.2nF,5%,100V,TP,5.5X10X2.9,5m"	
C305	2301-000010	"C-FILM,PEF"	"100nF,5%,100V,TP,11.5x12.5mm,5"	
C306	2401-000852	C-AL	"220uF,20%,35V,GP,TP,8x11.5mm,5"	
C307	2301-000010	"C-FILM,PEF"	"100nF,5%,100V,TP,11.5x12.5mm,5"	
C308	2305-000237	"C-FILM,MPEF"	"1uF,5%,63V,TP,7.5x15.5mm,5mm"	
C309	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C310	2301-000013	"C-FILM,PEF"	"4.7nF,5%,100V,TP,10.5x12.5x6.5"	
C311	2401-000039	C-AL	"1000uF,20%,16V,GP,TP,10x16,5"	
C312	2401-000597	C-AL	"1uF,20%,50V,GP,TP,4x7mm,1.5mm"	
C313	2301-000013	"C-FILM,PEF"	"4.7nF,5%,100V,TP,10.5x12.5x6.5"	
C400	2301-000294	"C-FILM,PEF"	"56nF,5%,100V,TP,9.5x12.5mm,5mm"	
C401	2301-000188	"C-FILM,PEF"	"1nF,5%,100V,TP,10.5x12.5x6.5,5"	
C402	2401-000046	C-AL	"10uF,20%,250V,GP,TP,10x20,5"	
C403	2305-000624	"C-FILM,MPEF"	"330nF,10%,100V,TP,-,5mm"	
C404	2301-000020	"C-FILM,PEF"	"27nF,5%,100V,TP,7.3x4x12.5mm,5"	
C405	2401-001548	C-AL	"47uF,20%,25V,WT,TP,5x11,5"	
C406	2401-000049	C-AL	"47uF,20%,100V,WT,TP,10x16,5"	
C407	2201-000291	"C-CERAMIC,DISC"	"1nF,10%,500V,Y5P,TP,7.5x3.5,5"	
C408	2305-000624	"C-FILM,MPEF"	"330nF,10%,100V,TP,-,5mm"	
C409	2305-000624	"C-FILM,MPEF"	"330nF,10%,100V,TP,-,5mm"	
C410	2301-000020	"C-FILM,PEF"	"27nF,5%,100V,TP,7.3x4x12.5mm,5"	⚠
C411	2301-001180	"C-FILM,PPF"	"2.2nF,5%,3KV,TP,22.5x15.5x22,7"	⚠
C413	2201-000291	"C-CERAMIC,DISC"	"1nF,10%,500V,Y5P,TP,7.5x3.5,5"	
C414	2201-000732	"C-CERAMIC,DISC"	"0.68nF,10%,1kV,Y5P,TP,7x4,5"	
C415	2305-001003	"C-FILM,MPEF"	"10nF,5%,250V,TP,13x4.5x9mm,7.5"	
C416	2401-000661	C-AL	"2.2uF,20%,50V,GP,TP,5x11,5"	
C417	2201-000409	"C-CERAMIC,DISC"	"0.27nF,10%,500V,Y5P,TP,5.5x3,5"	
C419	2201-000012	"C-CERAMIC,DISC"	"0.22nF,10%,1kV,Y5P,TP,6.3x5,5"	
C420	2401-000025	C-AL	"100uF,20%,16V,GP,TP,6.3x11,5"	
C421	2401-000026	C-AL	"3.3UF,20%,50V,GP,TP,5X11,5"	

Loc. No.	Code No.	Description	Specification	Remarks
C422	2301-000148	“C-FILM,PEF”	“10nF,5%,100V,TP,7x3.2x7mm,5mm”	
C423	2301-000188	“C-FILM,PEF”	“1nF,5%,100V,TP,10.5x12.5x6.5,5”	
C424	2401-000025	C-AL	“100uF,20%,16V,GP,TP,6.3x11,5”	
C425	2202-002008	“C-CERAMIC,MLC-AXIAL”	“10nF,+80-20%,50V,Y5V,TP,2.3X3.”	
C426	2202-000470	“C-CERAMIC,MLC-RADIAL”	“330pF,5%,100V,NPO,TP,5.1x5.1x3”	
C427	2303-000011	“C-FILM,PPF”	“1nF,5%,100V,TP,14x11.5mm,7.5mm”	
C428	2301-000020	“C-FILM,PEF”	“27nF,5%,100V,TP,7.3x4x12.5mm,5”	
C429	2301-000010	“C-FILM,PEF”	“100nF,5%,100V,TP,11.5x12.5mm,5”	
C432	2201-000019	“C-CERAMIC,DISC”	“10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5”	
C451	2301-001259	“C-FILM,MPPF”	“100nF,5%,400V,TP,19x8x16,7.5mm”	
C452	2301-001259	“C-FILM,MPPF”	“100nF,5%,400V,TP,19x8x16,7.5mm”	
C455	2306-000179	“C-FILM,MPPF”	“300nF,5%,250V,TP,20x18.5x10.5,”	
C456	2306-000134	“C-FILM,MPPF”	“150nF,5%,400V,TP,19x17x11,7.5m”	
C457	2301-001273	“C-FILM,MPPF”	“56NF,5%,400V,TP,19X14.5X7.5MM,7.5”	
C458	2305-000149	“C-FILM,MPEF”	“100nF,5%,100V,TP,12x12.5x6.5,5”	
C498	2305-000004	“C-FILM,MPEF”	“220nF,10%,100V,TP,12.7x16,5mm”	
C499	2401-001551	C-AL	“47uF,20%,35V,GP,TP,6.3x11,5”	
C501	2201-000672	“C-CERAMIC,DISC”	“0.82nF,10%,500V,Y5P,TP,6.5x3,5”	
C502	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	
C503	2401-000480	C-AL	“10uF,20%,50V,GP,TP,5x11,5”	
C504	2401-001576	C-AL	“47uF,20%,50V,GP,TP,8x11.5,5”	
C505	2401-001378	C-AL	“470uF,20%,16V,WT,TP,10x20,5”	
C521	2301-000294	“C-FILM,PEF”	“56nF,5%,100V,TP,9.5x12.5mm,5mm”	
C522	2301-000148	“C-FILM,PEF”	“10nF,5%,100V,TP,7x3.2x7mm,5mm”	
C523	2401-000292	C-AL	“100uF,20%,16V,WT,TP,8x11.5mm,5”	
C524	2201-000163	“C-CERAMIC,DISC”	“10nF,+80-20%,50V,Y5V,TP,7x3,2.5”	
C525	2305-001041	“C-FILM,MPEF”	“220nF,5%,63V,TP,7.5x4.5x13.5,5”	
C526	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	
C527	2401-000015	C-AL	“33uF,20%,50V,WT,-,6.3x11mm,2.5”	
C528	2401-001585	C-AL	“47uF,20%,50V,WT,TP,8x11.5,5”	
C530	2201-000767	“C-CERAMIC,DISC”	“270pF,10%,1KV,Y5P,TP,6.3x5,5”	
C531	2303-000147	“C-FILM,PPF”	“1NF,5%,2KV,TP,23X13X8MM,7.5”	
C532	2401-000638	C-AL	“2.2uF,20%,350V,WT,TP,10x12.5mm”	
C533	2201-000732	“C-CERAMIC,DISC”	“0.68nF,10%,1kV,Y5P,TP,7x4,5”	
C534	2401-001576	C-AL	“47uF,20%,50V,GP,TP,8x11.5,5”	
C535	2401-000771	C-AL	“220uF,20%,100V,WT,TP,16x25,7.5”	
C536	2401-003080	C-AL	“3.3UF,20%,50V,BP,TP,5X11,2.5”	
C538	2305-000665	“C-FILM,MPEF”	“100nF,5%,63V,TP,7.5x4.0x5.0mm,”	
C539	2305-000237	“C-FILM,MPEF”	“1uF,5%,63V,TP,7.5x15.5mm,5mm”	
C540	2201-000732	“C-CERAMIC,DISC”	“0.68nF,10%,1kV,Y5P,TP,7x4,5”	
C541	2305-000237	“C-FILM,MPEF”	“1uF,5%,63V,TP,7.5x15.5mm,5mm”	
C551	2401-000043	C-AL	“1uF,20%,160V,GP,TP,6.3x11,5”	
C552	2305-000004	“C-FILM,MPEF”	“220nF,10%,100V,TP,12.7x16,5mm”	
C553	2301-000014	“C-FILM,PEF”	“6.8nF,5%,100V,TP,5.8x12.5mm,5m”	
C555	2305-000407	“C-FILM,MPEF”	“470nF,5%,100V,TP,-,5mm”	
C556	2201-000285	“C-CERAMIC,DISC”	“1nF,10%,1kV,Y5P,TP,8x5,5”	
C557	2201-000012	“C-CERAMIC,DISC”	“0.22nF,10%,1kV,Y5P,TP,6.3x5,5”	

Loc. No.	Code No.	Description	Specification	Remarks
C558	2201-000144	“C-CERAMIC,DISC”	“0.1nF,5%,50V,NP0,TP,8.5x3,5”	
C559	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	
C560	2301-000014	“C-FILM,PEF”	“6.8nF,5%,100V,TP,5.8x12.5mm,5m”	
C561	2305-000149	“C-FILM,MPEF”	“100nF,5%,100V,TP,12x12.5x6.5,5”	
C562	2201-000019	“C-CERAMIC,DISC”	“10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5”	
C563	2401-000597	C-AL	“1uF,20%,50V,GP,TP,4x7mm,1.5mm”	
C566	2401-000404	C-AL	“10uF,20%,16V,BP,TP,5x11,5”	
C901	2401-002274	C-AL	“220uF,20%,35V,WT,TP,10x12.5,5”	
C902	2401-002274	C-AL	“220uF,20%,35V,WT,TP,10x12.5,5”	
C903	2201-000443	“C-CERAMIC,DISC”	“3.3nF,10%,50V,Y5P,TP,8.5x3,5”	
C904	2201-000443	“C-CERAMIC,DISC”	“3.3nF,10%,50V,Y5P,TP,8.5x3,5”	
C905	2201-000017	“C-CERAMIC,DISC”	“1nF,10%,50V,Y5P,TP,5x3.5,5”	
C906	2201-000017	“C-CERAMIC,DISC”	“1nF,10%,50V,Y5P,TP,5x3.5,5”	
C907	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C908	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C909	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CN203	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CN204	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CN405	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CN406	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CN407	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CN408	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CN411	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CN412	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CN414	3711-000217	CONNECTOR-HEADER	“1WALL,3P,1R,3.96mm,STRAIGHT,SN”	
CN501	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CS201	2401-000042	C-AL	“100uF,20%,16V,GP,TP,6.3x7,5”	
CS202	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	
CS203	2401-000026	C-AL	“3.3UF,20%,50V,GP,TP,5X11,5”	
CS204	2201-000138	“C-CERAMIC,DISC”	“100pF,10%,50V,Y5P,TP,4.0X4.0,2”	
CS205	2201-000389	“C-CERAMIC,DISC”	“0.022nF,5%,50V,NP0,TP,5x3,5”	
CS206	2201-000247	“C-CERAMIC,DISC”	“0.015nF,5%,50V,NP0,TP,5x3,5”	
CS207	2401-000026	C-AL	“3.3UF,20%,50V,GP,TP,5X11,5”	
CS208	2202-002008	“C-CERAMIC,MLC-AXIAL”	“10nF,+80-20%,50V,Y5V,TP,2.3X3.”	
CS209	2202-002008	“C-CERAMIC,MLC-AXIAL”	“10nF,+80-20%,50V,Y5V,TP,2.3X3.”	
CS211	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CS212	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
CS213	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CS214	2305-000237	“C-FILM,MPEF”	“1uF,5%,63V,TP,7.5x15.5mm,5mm”	
CS215	2301-000148	“C-FILM,PEF”	“10nF,5%,100V,TP,7x3.2x7mm,5mm”	
CS216	2201-000863	“C-CERAMIC,DISC”	“0.68nF,10%,50V,Y5P,TP,5x3,5”	
CS217	2401-002075	C-AL	“4.7uF,20%,50V,GP,TP,5x11,5”	
CS218	2301-000014	“C-FILM,PEF”	“6.8nF,5%,100V,TP,5.8x12.5mm,5m”	
CS219	2305-000237	“C-FILM,MPEF”	“1uF,5%,63V,TP,7.5x15.5mm,5mm”	
CS220	2401-000480	C-AL	“10uF,20%,50V,GP,TP,5x11,5”	
CS221	2401-000050	C-AL	“10uF,20%,16V,GP,TP,5x11,2.5”	
CS222	2301-000106	“C-FILM,PEF”	“1.5nF,0.05,100V,TP,10.5*12.5*6”	
CS223	2202-000654	“C-CERAMIC,MLC-RADIAL”	“100nF,10%,50V,X7R,TP,5.1x6.6x3.2mm,5”	
CS224	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	

Loc. No.	Code No.	Description	Specification	Remarks
CS225	2401-000025	C-AL	“100uF,20%,16V,GP,TP,6.3x11,5”	
CS226	2301-000317	“C-FILM,PEF”	“82nF,5%,100V,TP,10.5x12.5mm,5m”	
CS229	2301-000168	“C-FILM,PEF”	“150nF,5%,100V,TP,11.5x19mm,7.5”	
CS230	2305-000412	“C-FILM,MPEF”	“470nF,5%,63V,TP,-,5mm”	
CS231	2401-000031	C-AL	“47uF,20%,16V,GP,TP,5x11,5”	
CS232	2202-002008	“C-CERAMIC,MLC-AXIAL”	“10nF,+80-20%,50V,Y5V,TP,2.3X3.”	
CS233	2202-002008	“C-CERAMIC,MLC-AXIAL”	“10nF,+80-20%,50V,Y5V,TP,2.3X3.”	
CS234	2202-002008	“C-CERAMIC,MLC-AXIAL”	“10nF,+80-20%,50V,Y5V,TP,2.3X3.”	
CS235	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CS236	2401-000698	C-AL	“2200uF,20%,16V,WT,TP,12.5x25,5”	
CS237	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CS238	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CS239	2202-002008	“C-CERAMIC,MLC-AXIAL”	“10nF,+80-20%,50V,Y5V,TP,2.3X3.”	
CS240	2401-000042	C-AL	“100uF,20%,16V,GP,TP,6.3x7,5”	
CS241	2202-002008	“C-CERAMIC,MLC-AXIAL”	“10nF,+80-20%,50V,Y5V,TP,2.3X3.”	
CS242	2401-000042	C-AL	“100uF,20%,16V,GP,TP,6.3x7,5”	
CS243	2401-000010	C-AL	“220uF,20%,16V,GP,-,6.3x11mm,2.”	⚠
CS244	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	⚠
CS245	2401-000010	C-AL	“220uF,20%,16V,GP,-,6.3x11mm,2.”	⚠
CS246	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	⚠
CS247	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CS250	2201-000370	“C-CERAMIC,DISC”	“0.22nF,10%,50V,Y5P,TP,4x3.5,5”	
CS260	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CS261	2401-000943	C-AL	“22uF,20%,25V,GP,TP,6x7,5”	
D301	0402-000272	DIODE-RECTIFIER	“UF4001,50V,1A,DO-41,TP”	
D302	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D400	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D401	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D402	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D403	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D405	0402-000274	DIODE-RECTIFIER	“UF4004,400V,1A,DO-41,TP”	
D406	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D407	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D411	0402-000012	DIODE-RECTIFIER	“UF4007,1KV,1A,DO-41,TP”	
D412	0402-000012	DIODE-RECTIFIER	“UF4007,1KV,1A,DO-41,TP”	
D413	0402-000012	DIODE-RECTIFIER	“UF4007,1KV,1A,DO-41,TP”	
D414	0402-000272	DIODE-RECTIFIER	“UF4001,50V,1A,DO-41,TP”	
D415	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	
D451	0402-000274	DIODE-RECTIFIER	“UF4004,400V,1A,DO-41,TP”	
D452	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D499	0402-000272	DIODE-RECTIFIER	“UF4001,50V,1A,DO-41,TP”	
D503	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D504	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D506	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D521	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D522	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D523	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D525	0402-000274	DIODE-RECTIFIER	“UF4004,400V,1A,DO-41,TP”	
D527	0402-000017	DIODE-RECTIFIER	“RGP02-12,1200V,0.5A,DO-204AL,T”	

Loc. No.	Code No.	Description	Specification	Remarks
D528	0402-000274	DIODE-RECTIFIER	“UF4004,400V,1A,DO-41,TP”	
D529	0402-000017	DIODE-RECTIFIER	“RGP02-12,1200V,0.5A,DO-204AL,T”	
D530	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D551	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D552	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D553	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D554	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DS200	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DS201	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DS202	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DS203	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DS204	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DS206	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DS210	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DS212	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
EY201	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY202	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY203	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY204	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY301	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY302	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY401	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY402	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY403	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY404	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY405	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY405_1	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY408	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY409	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY410	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY411	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY412	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY413	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY414	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY415	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY416	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY417	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY418	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY419	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY420	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY421	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY422	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY423	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY424	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY425	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY426	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY427	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	

Loc. No.	Code No.	Description	Specification	Remarks
EY430	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY431	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY432	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY501	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY502	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY503	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY504	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY505	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY506	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY507	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY508	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY509	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY510	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY511	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY512	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY520	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY521	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY900	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY901	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY902	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY903	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
IC402	1203-001099	IC-PWM CONTROLLER	“3843,DIP,8P,250MIL,PLASTIC,30V”	
IC501	1203-000610	IC-PWM CONTROLLER	\	
IC502	1201-000420	IC-OP AMP	“358,DIP,8P,300MIL,DUAL,100V/mV”	
IC503	1201-000420	IC-OP AMP	“358,DIP,8P,300MIL,DUAL,100V/mV”	
IC902	1201-000152	IC-OP AMP	“353,DIP,8P,300MIL,DUAL,100V/mV”	
IC903	1201-000420	IC-OP AMP	“358,DIP,8P,300MIL,DUAL,100V/mV”	
ICS203	1201-000420	IC-OP AMP	“358,DIP,8P,300MIL,DUAL,100V/mV”	
JP13	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP15	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP16	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP226	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP24	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP243	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP264	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP300	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP333	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP335	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP44	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP449	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP489	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP495	2004-001298	R-METAL	“82Kohm,2%,1/4W,AA,TP,2.4x6.4mm”	
JP500	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP503	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP531	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP538	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP542	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	

Loc. No.	Code No.	Description	Specification	Remarks
JP544	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP546	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP551	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP557	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP563	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP564	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP58	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP586	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP596	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP598	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP6	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP603	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP604	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP608	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP610	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP618	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP620	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP622	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP623	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP624	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP625	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP626	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP627	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP631	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP638	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP639	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP640	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP645	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP647	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP651	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP652	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP655	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP663	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP665	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP666	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP674	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP676	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP677	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP679	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP680	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP681	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP683	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP687	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP688	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP690	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP691	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP692	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	

Loc. No.	Code No.	Description	Specification	Remarks
JP696	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP697	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP698	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP700	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP703	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP704	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP709	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP717	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP721	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP723	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP725	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP726	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP728	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP729	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP730	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP732	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP733	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP734	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP735	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP740	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP741	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP746	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP750	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP751	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP752	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP753	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP754	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP758	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP760	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP764	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP765	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP766	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP768	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP769	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP770	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP772	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP773	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP779	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP781	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP782	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP786	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP787	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP788	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP790	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP793	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP794	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP795	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	

Loc. No.	Code No.	Description	Specification	Remarks
JP797	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP799	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP800	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP803	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP806	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP807	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP809	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP810	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP811	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP812	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP813	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP816	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP817	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP818	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP822	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP823	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP824	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP827	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP831	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP832	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP836	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP837	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP845	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP847	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP850	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP856	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP860	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP862	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP864	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP871	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP872	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP873	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP874	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP875	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP876	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP877	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP879	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP880	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP881	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP883	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP884	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP886	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP887	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP889	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP893	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP895	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP896	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	

Loc. No.	Code No.	Description	Specification	Remarks
JP897	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP899	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP900	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP901	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP903	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP904	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP905	3301-000011	CORE-FERRITE BEAD	“AA,3.5x1.0x5.7mm,1500,2375G”	
JP909	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP910	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP911	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP913	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP914	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP915	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP916	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP921	2001-000515	R-CARBON	“220OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
JP923	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP925	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP926	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP927	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP928	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP930	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP931	3301-000011	CORE-FERRITE BEAD	“AA,3.5x1.0x5.7mm,1500,2375G”	
JP933	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP934	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP935	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP937	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP938	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP939	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP940	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP941	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP942	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP943	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP944	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP945	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP946	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP947	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP948	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP949	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP950	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP951	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP952	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP954	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP955	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP956	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP957	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP959	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP961	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	

Loc. No.	Code No.	Description	Specification	Remarks
JP962	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP963	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP964	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP965	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP966	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP967	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP968	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP969	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP970	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP972	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP973	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP974	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP975	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP976	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP977	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP978	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP979	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
L501	2701-000179	INDUCTOR-AXIAL	“33uH,10%,4.2x9.8mm”	
L503	2701-000187	INDUCTOR-AXIAL	“4.7uH,10%,4.2x9.8mm”	
MP1.0	BH41-00093A	PCB MAIN	“PN22MS_MAIN,FR1,1,-,1.6T,330*8247,PN,1,MAIN,-”	
Q301	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q400	0501-000122	TR-SMALL SIGNAL	“2N3904,NPN,625mW,TO-92,TP,100-300”	
Q401	0501-000303	TR-SMALL SIGNAL	“KSA733,PNP,250mW,TO-92,TP,120-240”	
Q402	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q406	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q407	0501-000303	TR-SMALL SIGNAL	“KSA733,PNP,250mW,TO-92,TP,120-240”	
Q409	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q410	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q411	0501-000122	TR-SMALL SIGNAL	“2N3904,NPN,625mW,TO-92,TP,100-300”	
Q412	0501-000321	TR-SMALL SIGNAL	“KSB1116-Y,PNP,750mW,TO-92,TP,135-270”	
Q413	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q451	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q452	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q453	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q454	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q455	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q493	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q499	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q501	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q521	0501-000122	TR-SMALL SIGNAL	“2N3904,NPN,625mW,TO-92,TP,100-300”	
Q522	0501-000122	TR-SMALL SIGNAL	“2N3904,NPN,625mW,TO-92,TP,100-300”	
Q523	0501-000581	TR-SMALL SIGNAL	“2N3906,PNP,625mW,TO-92,TP,100-300”	
Q553	0501-000140	TR-SMALL SIGNAL	“2N5551,NPN,625mW,TO-92,TP,80-250”	
Q554	0501-000413	TR-SMALL SIGNAL	“KSP44,NPN,625mW,TO-92,TP,50-200”	
QS202	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
QS203	0501-000303	TR-SMALL SIGNAL	“KSA733,PNP,250mW,TO-92,TP,120-240”	
QS204	0501-000122	TR-SMALL SIGNAL	“2N3904,NPN,625mW,TO-92,TP,100-300”	

Loc. No.	Code No.	Description	Specification	Remarks
QS205	0501-000122	TR-SMALL SIGNAL	“2N3904,NPN,625mW,TO-92,TP,100-300”	
QS206	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
QS207	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
QS208	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
R217	2001-000331	R-CARBON	“12KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R300	2004-000123	R-METAL	“1.2Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R301	2004-000344	R-METAL	“15Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R302	2004-000728	R-METAL	“3.9Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R303	2004-001187	R-METAL	“680ohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R304	2004-000344	R-METAL	“15Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R305	2004-001254	R-METAL	“8.2Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R306	2005-001064	R-WIRE WOUND	“0.9OHM,5%,2W,AA,TP,3.8X11MM”	
R307	2001-001088	R-CARBON(S)	“1KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R308	2001-000049	R-CARBON	“2.4KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R309	2001-000016	R-CARBON(S)	“1OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R310	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R311	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R312	2001-000977	R-CARBON	“8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R313	2001-000591	R-CARBON	“3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R314	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R315	2008-000114	R-FUSIBLE	“1.2ohm,5%,1/2W,AA,TP,3.5x9.4mm”	
R401	2001-000812	R-CARBON	“5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R402	2001-000645	R-CARBON	“330KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R403	2001-000011	R-CARBON	“75KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R404	2001-000563	R-CARBON	“27KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R405	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R406	2001-000800	R-CARBON	“5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R407	2001-000958	R-CARBON	“750OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R408	2001-000011	R-CARBON	“75KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R409	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R413	2001-000660	R-CARBON	“33KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R414	2004-000284	R-METAL	“12Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R415	2001-000515	R-CARBON	“220OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R416	2001-001163	R-CARBON(S)	“560OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R417	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R418	2003-000676	R-METAL OXIDE(S)	“39ohm,5%,2W,AA,TP,4x12mm”	
R419	2003-000468	R-METAL OXIDE(S)	“10ohm,5%,1W,AA,TP,3.3x9mm”	
R420	2003-000650	R-METAL OXIDE(S)	“330ohm,5%,2W,AA,TP,4x12mm”	
R422	2001-000028	R-CARBON(S)	“100OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R423	2001-000028	R-CARBON(S)	“100OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R424	2004-001005	R-METAL	“5.1Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R425	2003-000557	R-METAL OXIDE(S)	“2.2ohm,5%,3W,AA,TP,6x16mm”	
R426	2001-000076	R-CARBON	“47KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R427	2001-000221	R-CARBON	“1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R428	2001-001093	R-CARBON(S)	“2.2KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R429	2003-002223	R-METAL OXIDE	“2.4ohm,5%,3W,AA,TP,8x24mm”	
R430	2001-001152	R-CARBON(S)	“47KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	

Loc. No.	Code No.	Description	Specification	Remarks
R431	2001-000613	R-CARBON	“3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R432	2004-001022	R-METAL	“5.6Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R433	2004-000657	R-METAL	“27Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R434	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R435	2001-000472	R-CARBON	“2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R436	2001-000742	R-CARBON	“4.7OHM,5%,1/2W,AA,TP,3.3X9MM”	
R438	2008-000140	R-FUSIBLE	“2.2ohm,5%,1/2W,AA,TP,3.5x9.4mm”	
R439	2001-000947	R-CARBON	“7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R440	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R441	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R442	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R443	2003-002223	R-METAL OXIDE	“2.4ohm,5%,3W,AA,TP,8x24mm”	
R451	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R452	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R453	2001-000221	R-CARBON	“1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R454	2001-000221	R-CARBON	“1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R455	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R456	2001-000221	R-CARBON	“1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R457	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R458	2001-000221	R-CARBON	“1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R459	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R460	2001-000221	R-CARBON	“1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R461	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R462	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R463	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R464	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R465	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R466	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R467	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R468	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R469	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R470	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R471	2003-000450	R-METAL OXIDE(S)	“100Kohm,5%,3W,AA,TP,6x16mm”	
R476	2001-000022	R-CARBON(S)	“33OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R477	2003-000661	R-METAL OXIDE(S)	“33ohm,5%,2W,AA,TP,4x12mm”	
R478	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R479	2001-000793	R-CARBON	“47OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R480	2001-000472	R-CARBON	“2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R481	2001-000042	R-CARBON	“1KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R485	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R494	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R495	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	⚠
R497	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R498	2001-000221	R-CARBON	“1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R499	2001-001088	R-CARBON(S)	“1KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R501	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R502	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	

Loc. No.	Code No.	Description	Specification	Remarks
R503	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R504	2001-000660	R-CARBON	“33KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R505	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R506	2001-000660	R-CARBON	“33KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R507	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	⚠
R508	2001-000563	R-CARBON	“27KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	⚠
R509	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	⚠
R510	2001-000563	R-CARBON	“27KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R511	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R512	2004-000861	R-METAL	“39Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	⚠
R513	2004-000515	R-METAL	“200Kohm,1%,1/4W,AA,TP,2.4x6.4m”	⚠
R514	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R521	2001-000241	R-CARBON	“1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R523	2001-000947	R-CARBON	“7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R524	2001-000689	R-CARBON	“390KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R525	2001-000977	R-CARBON	“8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R526	2001-000812	R-CARBON	“5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R527	2001-000800	R-CARBON	“5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R528	2001-000660	R-CARBON	“33KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R529	2001-000800	R-CARBON	“5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	⚠
R530	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R531	2001-000591	R-CARBON	“3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R532	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R533	2001-000780	R-CARBON	“470HM,5%,1/8W,AA,TP,1.8X3.2MM”	
R534	2001-000018	R-CARBON	“6.8OHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R535	2005-000210	R-WIRE WOUND	“0.33ohm,5%,1W,AC,BK,4.5x11mm”	
R536	2003-000014	R-METAL OXIDE(S)	“10Kohm,5%,3W,AA,TP,6x16mm”	
R537	2003-000014	R-METAL OXIDE(S)	“10Kohm,5%,3W,AA,TP,6x16mm”	
R538	2001-000073	R-CARBON	“33KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R540	2004-001349	R-METAL	“91Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	⚠
R543	2001-000878	R-CARBON	“6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	⚠
R549	2003-000789	R-METAL OXIDE(S)	“75ohm,5%,1W,AA,TP,3.3x9mm”	
R551	2003-000006	R-METAL OXIDE	“47ohm,5%,1W,AA,TP,4.3x12mm”	
R552	2001-000066	R-CARBON(S)	“10KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R553	2001-001153	R-CARBON(S)	“47OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R554	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R555	2001-000319	R-CARBON	“120KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R556	2001-000045	R-CARBON	“1.8KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R558	2003-000448	R-METAL OXIDE(S)	“100Kohm,5%,2W,AA,TP,4x12mm”	
R560	2001-000563	R-CARBON	“27KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R561	2001-000613	R-CARBON	“3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R562	2001-000221	R-CARBON	“1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R563	2001-000085	R-CARBON(S)	“100KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R564	2001-000114	R-CARBON(S)	“180KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R565	2001-000114	R-CARBON(S)	“180KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R566	2001-000107	R-CARBON(S)	“150KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	

Loc. No.	Code No.	Description	Specification	Remarks
R901	2004-000698	R-METAL	“3.3Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R902	2003-000775	R-METAL OXIDE(S)	“68ohm,5%,1W,AA,TP,3.3x9mm”	
R903	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R904	2003-000557	R-METAL OXIDE(S)	“2.2ohm,5%,3W,AA,TP,6x16mm”	
R905	2004-000698	R-METAL	“3.3Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R906	2003-000775	R-METAL OXIDE(S)	“68ohm,5%,1W,AA,TP,3.3x9mm”	
R907	2004-000698	R-METAL	“3.3Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R908	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R910	2003-000557	R-METAL OXIDE(S)	“2.2ohm,5%,3W,AA,TP,6x16mm”	
R911	2004-000698	R-METAL	“3.3Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R915	2004-000344	R-METAL	“15Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R916	2004-000344	R-METAL	“15Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R918	2004-000344	R-METAL	“15Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R919	2004-000344	R-METAL	“15Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R920	2001-000331	R-CARBON	“12KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R921	2001-001000	R-CARBON	“82KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R922	2001-000613	R-CARBON	“3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R923	2001-000563	R-CARBON	“27KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R924	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R925	2001-000766	R-CARBON	“43KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R926	2001-000766	R-CARBON	“43KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R927	2001-000539	R-CARBON	“24KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R928	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R929	2001-000766	R-CARBON	“43KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R930	2001-000331	R-CARBON	“12KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R931	2001-001000	R-CARBON	“82KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R932	2001-000613	R-CARBON	“3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R933	2001-000008	R-CARBON	“15KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R934	2001-000241	R-CARBON	“1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS201	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS202	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS203	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS204	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS205	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS206	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS207	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS208	2001-000613	R-CARBON	“3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS209	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS210	2004-000441	R-METAL	“1Mohm,1%,1/8W,AA,TP,1.8x3.2mm”	
RS211	2004-000616	R-METAL	“24Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
RS212	2001-000591	R-CARBON	“3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS213	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS214	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS215	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS217	2001-000085	R-CARBON(S)	“100KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
RS218	2001-000613	R-CARBON	“3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS219	2001-000613	R-CARBON	“3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	

Loc. No.	Code No.	Description	Specification	Remarks
RS220	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS222	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS223	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS224	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS225	2001-000563	R-CARBON	“27KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS226	2004-001118	R-METAL	“5Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
RS227	2001-000947	R-CARBON	“7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS228	2004-004367	R-METAL	“90Kohm,1%,1/4W,AA,TP,6.2x2.6mm”	
RS229	2001-000241	R-CARBON	“1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS230	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS231	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS232	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS234	2001-000539	R-CARBON	“24KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS235	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS236	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS237	2004-000216	R-METAL	“10Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
RS238	2004-000979	R-METAL	“47Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
RS239	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS240	2004-000580	R-METAL	“22Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
RS241	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS242	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS243	2001-000244	R-CARBON	“1.5MOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS244	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS245	2001-000047	R-CARBON	“2.2KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
RS246	2001-000244	R-CARBON	“1.5MOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS247	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS248	2001-001138	R-CARBON(S)	“390OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
RS249	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS250	2001-001138	R-CARBON(S)	“390OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
RS251	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS252	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS253	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS254	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS255	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS256	2001-000472	R-CARBON	“2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS258	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS259	2001-000241	R-CARBON	“1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS260	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS261	2001-000878	R-CARBON	“6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS272	2001-000812	R-CARBON	“5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS273	2001-000591	R-CARBON	“3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RS274	2001-000258	R-CARBON	“1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
SK521	4715-000001	SURGE ABSORBER	“1KV,+50-10%,-,-,”	
VR501	2103-001080	VR-SEMI	“100KOHM,25%,0.3W,SIDE”	⚠
X201	2801-000006	CRYSTAL-UNIT	“12MHz,50ppm,28-AAM,S,35ohm,BK”	
ZD400	0403-000351	DIODE-ZENER	“UZ4.7B,4.4-5.0V,500mW,DO-35,TP”	
ZD401	0403-000004	DIODE-ZENER	“UZ12BM,12V,11.6-12.4V,500mW,DO”	
ZD402	0403-000711	DIODE-ZENER	“MTZJ2.0B,2.0V,2.02-2.5V,500mW,”	

Loc. No.	Code No.	Description	Specification	Remarks
ZDS201	0403-000509	DIODE-ZENER	"MTZJ5.6B,5.6V,5.45-5.73V,500mW"	
ZDS202	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZDS203	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZDS204	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZDS205	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
ZDS206	0403-000361	DIODE-ZENER	"UZ6.2BSB,6.2V,5.99-6.24V,500mW"	
HS301	BH99-00002A	"ASSY,HEAT/SINK"	"H/S V.IC,SCREW+NUT,KA2142,-,-,OIL SILICON,-,-"	
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"	
HS401_2	BH99-00006D	ASSY HEAT/SINK	"HS TR,SCREW+NUT,SKS19N20,-,-,OIL SILICON"	
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"	
HS401_1	BH99-00007Q	ASSY HEAT/SINK	"HS TR,SPRING,FQP19N20,-,-,OIL SILICON"	
CIS	BH61-00004A	SPRING-TR	"CDA,CDB,SUS304,T0.5,-,-,-"	
CIS	BH62-00007A	HEAT SINK-TR	"-,T1.0,L20*H30,CDA"	
CIS	BH62-20001B	RUBBER	"CSQ4357,W25*L20*T0.45,-,-,-,-"	
HS201	BH99-00011A	"ASSY,HEAT/SINK"	"HS TR,SPRING,78R12,7805,-,OIL SILICON,-,-"	
HS202	BH99-00011A	"ASSY,HEAT/SINK"	"HS TR,SPRING,78R12,7805,-,OIL SILICON,-,-"	
CIS	1203-000001	IC-POSI.FIXED REG.	"7805,TO-220,3P,-,PLASTIC,4.8/5"	
CIS	1203-000165	IC-POSI.ADJUST REG.	"78R12,TO-220,3P,-,-,12V,-,0to+"	
CIS	BH61-00004A	SPRING-TR	"CDA,CDB,SUS304,T0.5,-,-,-,-"	
CIS	BH62-00013A	HEAT SINK-TR	"A1050S T1.0,-,-,PEGSUS"	
HS504	BH99-00013B	ASSY HEAT/SINK	"HS,SPRING,FQAF19N60,-,-,OIL SILICON"	
CIS	BH61-70003A	SPRING	"CVT4857,STS304-W1/2H,T0.5,W3.8"	
CIS	BH62-00020A	HEAT SINK-TR	"A1050S,T1.0,-,PG21"	
HS901	BH99-00020A	ASSY HEAT/SINK	"HS POWER,SCREW+NUT,STK391-110,-,-,OIL SILICON"	
CIS	1201-001607	IC-POWER AMP	"391-110,SIP,12P,-,DUAL,-,PLASTIC,25V,-,-35to120C,-,60V/us,-,-,-"	
CIS	6006-000105	SCREW-ASS'Y MACH	"WSP,BH,+,M3,L16,ZPC(YEL),SWRCH"	
CIS	6021-000118	NUT-HEXAGON	"1C,M3,ZPC(YEL),SM20C"	
CIS	BH62-00029A	HEAT SINK-POWER	"PN22NS,A6063S,T1.8,H70,-,-,-,-"	
HS402	BH99-00022A	ASSY HEAT/SINK	"HS HOR,SPRING,2SC5597,PG127S17,-,MICA,OIL SILICON"	
CIS	0402-001311	DIODE-RECTIFIER	"PG127S17,1.7KV,10A,TO-3PF,BK"	
CIS	0502-001185	TR-POWER	"2SC5597,NPN,200000mW,TO-3PL,ST,-12"	
CIS	BH61-70003A	SPRING	"CVT4857,STS304-W1/2H,T0.5,W3.8"	
CIS	BH62-00001A	INSULATION-MICA	"MICA,W25XL35XT0.15,-,CSM920B"	
CIS	BH62-30423A	HEAT/SINK	"A6063S,T2.5,-,CSM920B"	
CIS	BH71-10436A	COVER-BRKT H/S	"CSM920B,SPTE,T0.5, SM,SE"	

7-2 USB PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
BD01	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD02	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD03	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD04	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD05	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD08	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD09	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD11	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD12	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
CIS	1204-001680	IC-HOR./VER.PROCESSO	"UPD61882A,QFP,64P,550MIL,PLASTIC,4.6V,660mW,-20to+75C,TR,DSP"	
CIS	0904-001468	IC-USC	"82C169,8Bit,QFP,44P,393MIL,12MHz,TR,CMOS,PLASTIC,3.3V,-,-40to+85C,-,8KBYTE,14Bit"	
CIS	1203-001543	IC-VOLTAGE REGULATOR	"78R33,TO-220,4P,400MIL,PLASTIC"	
CIS	BH59-00167A	PBA SUB	"PN22NS,PN22NS-DSP,-,-,-,80*60MM,DSP"	
CIS	BH59-00174A	PBA SUB-PCB HUB ASSY	"PN22MS,DB-PN22HUB-M,BASIC,HUB,-,-,-"	
CIS	BH99-00027A	PCB ASSY-DSP	"PN22M,-,-"	
CIS	0501-000122	TR-SMALL SIGNAL	"2N3904,NPN,625mW,TO-92,TP,100-300"	
IC02	1203-001578	IC-POSI.FIXED REG.	"XC62FP3302,TO-92,3P,-,PLASTIC,"	
IC03	1203-002023	IC-VOL. DETECTOR	"61CC4202,SOT-89,3P,98MIL,PLASTIC,4.116/4.284V,500mW,-40to+85C,50mA,-,TP"	
IC09	1206-000111	IC-TIMER	"KA555D/T.R,SOP,8P,150MIL,-,18V"	
IC6	BH13-00017A	IC-POWER SWITCH	"RYC8220-2M,PN22MS,8P,-40 to +85C,SOIC,250uA,8.0V,TP"	
IC7	BH13-00017A	IC-POWER SWITCH	"RYC8220-2M,PN22MS,8P,-40 to +85C,SOIC,250uA,8.0V,TP"	
IC8	1001-001146	IC-ANALOG SWITCH	"FST3257,BUS SWITCH & CMOS,SOP,16P,150MIL,QUAD,5.5V,-40to+85C,PLASTIC,-,15ohm,-,"	
HS508	BH99-10019F	"ASSY,HEAT/SINK"	"H/S TR,SCREW+NUT,TIP29C,-,-,OIL SILICON,-,-"	
CIS	0502-000348	TR-POWER	"TIP29C,NPN,2W,TO-220,-,15-75"	
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	BH62-30024B	HEAT/SINK-IC	"SPC-1,T1,SN COATING,-"	
HS509	BH99-10019G	"ASSY,HEAT/SINK"	"H/S TR,SCREW+NUT,TIP30,-,-,OIL SILICON,-,-"	
CIS	0502-000351	TR-POWER	"TIP30,PNP,2W,TO-220AB,-,15-75"	
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	BH62-30024B	HEAT/SINK-IC	"SPC-1,T1,SN COATING,-"	
HS408	BH99-10019T	ASSY HEAT/SINK	"HS TR,SCREW+NUT,KTD2058,-,-,OIL SILICON"	
CIS	0502-000465	TR-POWER	"KTD2058,NPN,25000mW,TO-220IS,ST,100-200"	
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	BH62-30024B	HEAT/SINK-IC	"SPC-1,T1,SN COATING,-"	
HS403	BH99-10054B	"ASSY,HEAT/SINK"	"HS TR,SPRING,SFP9634,-,-,OIL SILICON,-,-"	
CIS	BH61-70003A	SPRING	"CVT4857,STS304-W1/2H,T0.5,W3.8"	
CIS	BH62-30419D	HEAT SINK-TR	"A6063S,T1.0,-,PG17NO"	
HS409	BH99-10059Q	ASSY HEAT/SINK	"HS TR,SCREW+NUT,SKS19N20(4EA),-,-,OIL SILICON"	
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	BH62-30425A	HEAT/SINK	"A1050S,T1.0,-,CSM920B"	

7-3 SOCKET PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
CIS	BH75-00085E	UNIT-SHIELD/VIDEO	"PN22MS,-,-,-,-,-,-"	
CIS	BH75-00132B	UNIT/SHIELD-VIDEO	"PG19NO,A1050S,-,-,-"	
CIS	BH61-00002A	SPRING-VIDEO	"CDB7907,STS H14 ,T1.0,-,-,-,NORMAL CDT"	
CIS	BH62-00018A	HEAT SINK-VIDEO	"A6063S,T2.0,-,PG17NO"	
CIS	BH71-00022A	SHIELD-VIDEO	"PG17HS,A1050S,T1.0,-,-"	
CIS	BH72-00115A	HOLDER-VIDEO	"PG17NO,ABS+PC,5V(NONE,1,PHOSPHATE),IV16,-,-"	
CIS	BH73-00006A	HOLDER-RUBBER	"PG17NO,SILICON,GRAY,-,-,-,-"	
CN105	3711-004228	CONNECTOR-HEADER	"BOX,6P,1R,2MM,ANGLE,SN"	
CN106	3711-004123	CONNECTOR-HEADER	"BOX,15P,1R,2mm,ANGLE,SN"	
CN107	3711-000057	CONNECTOR-HEADER	"BOX,3P,1R,2.5mm,ANGLE,SN"	
HS160	BH62-00009A	HEAT SINK-IC	"A6063S,L35XW25.6XT2.5,-,CSV9329"	
IC102	1201-001241	IC-VIDEO AMP	"52742,DIP,36P,600MIL,TRIPLE,-,"	
IC103	BH09-00038A	IC-OSD PROCESSOR	"S5D2501E19-D0,PN22MS,24P,5V,-,-,-,-,-,DIP,ST,300,-,0to+70"	
IC151	1201-001242	IC-PREAMP	"52324,DIP,18P,-,DUAL,-,PLASTIC"	
SK155	3704-001118	SOCKET-CRT	"10P,22.5PI,26.5PI,NI,-"	
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"	
BD104	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD150	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD151	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD182	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD201	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD202	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
C100	2401-000037	C-AL	"470uF,20%,16V,GP,TP,8x11.5,5"	
C110	2401-000042	C-AL	"100uF,20%,16V,GP,TP,6.3x7,5"	
C111	2401-000042	C-AL	"100uF,20%,16V,GP,TP,6.3x7,5"	
C112	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C113	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C114	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C115	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C116	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C117	2401-003224	C-AL	"470uF,20%,16V,WT,TP,8X11.5,5mm"	
C118	2201-000247	"C-CERAMIC,DISC"	"0.015nF,5%,50V,NP0,TP,5x3,5"	
C119	2201-000119	"C-CERAMIC,DISC"	"100nF,+80-20%,50V,Y5V,TP,8x3,5"	
C120	2401-002299	C-AL	"4.7uF,20%,50V,GP,TP,5x7,5"	
C121	2401-000037	C-AL	"470uF,20%,16V,GP,TP,8x11.5,5"	
C122	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C123	2401-000037	C-AL	"470uF,20%,16V,GP,TP,8x11.5,5"	
C124	2201-000234	"C-CERAMIC,DISC"	"0.15nF,5%,50V,NP0,TP,9x3,5"	
C125	2401-000042	C-AL	"100uF,20%,16V,GP,TP,6.3x7,5"	
C126	2202-000669	"C-CERAMIC,MLC-RADIAL"	"10nF,10%,50V,X7R,TP,3.8x5.8,5."	
C127	2202-000669	"C-CERAMIC,MLC-RADIAL"	"10nF,10%,50V,X7R,TP,3.8x5.8,5."	
C130	2201-000764	"C-CERAMIC,DISC"	"0.082nF,5%,50V,NP0,TP,8x3.5,5"	
C131	2202-002008	"C-CERAMIC,MLC-AXIAL"	"10nF,+80-20%,50V,Y5V,TP,2.3X3."	
C132	2401-000042	C-AL	"100uF,20%,16V,GP,TP,6.3x7,5"	
C140	2401-000393	C-AL	"10uF,20%,100V,WT,TP,8x11.5,5"	
C141	2201-000017	"C-CERAMIC,DISC"	"1nF,10%,50V,Y5P,TP,5x3.5,5"	

Loc. No.	Code No.	Description	Specification	Remarks
C150	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C151	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C152	2202-000319	“C-CERAMIC,MLC-RADIAL”	“100nF,10%,100V,X7R,TP,5.1x3.2x”	
C153	2401-003224	C-AL	“470uF,20%,16V,WT,TP,8X11.5,5mm”	
C154	2401-000393	C-AL	“10uF,20%,100V,WT,TP,8x11.5,5”	
C155	2401-000613	C-AL	“1uF,20%,50V,WT,TP,5x11,5”	
C156	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C157	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C158	2401-000046	C-AL	“10uF,20%,250V,GP,TP,10x20,5”	
C162	2201-000288	“C-CERAMIC,DISC”	“1nF,10%,2kV,Y5P,TP,9x5,10”	
C165	2201-000288	“C-CERAMIC,DISC”	“1nF,10%,2kV,Y5P,TP,9x5,10”	
C166	2201-000019	“C-CERAMIC,DISC”	“10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5”	
C172	2401-000597	C-AL	“1uF,20%,50V,GP,TP,4x7mm,1.5mm”	
CB03	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CB41	2201-000558	“C-CERAMIC,DISC”	“0.47nF,10%,50V,Y5P,TP,5x3,5”	
CB42	2201-000798	“C-CERAMIC,DISC”	“0.01nF,0.5pF,50V,NP0,TP,4x3.5,5”	
CB45	2305-000009	“C-FILM,MPEF”	“100nF,5%,250V,TP,13x11x6.5,7.5”	
CB46	2202-002008	“C-CERAMIC,MLC-AXIAL”	“10nF,+80-20%,50V,Y5V,TP,2.3X3.”	
CB47	2305-000009	“C-FILM,MPEF”	“100nF,5%,250V,TP,13x11x6.5,7.5”	
CB48	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CB62	2202-000319	“C-CERAMIC,MLC-RADIAL”	“100nF,10%,100V,X7R,TP,5.1x3.2x”	
CG03	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CG41	2201-000558	“C-CERAMIC,DISC”	“0.47nF,10%,50V,Y5P,TP,5x3,5”	
CG42	2201-000798	“C-CERAMIC,DISC”	“0.01nF,0.5pF,50V,NP0,TP,4x3.5,5”	
CG45	2305-000009	“C-FILM,MPEF”	“100nF,5%,250V,TP,13x11x6.5,7.5”	
CG46	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CG47	2305-000009	“C-FILM,MPEF”	“100nF,5%,250V,TP,13x11x6.5,7.5”	
CG48	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CG62	2202-000319	“C-CERAMIC,MLC-RADIAL”	“100nF,10%,100V,X7R,TP,5.1x3.2x”	
CN13	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CN14	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
CR03	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CR41	2201-000558	“C-CERAMIC,DISC”	“0.47nF,10%,50V,Y5P,TP,5x3,5”	
CR42	2201-000798	“C-CERAMIC,DISC”	“0.01nF,0.5pF,50V,NP0,TP,4x3.5,5”	
CR45	2305-000009	“C-FILM,MPEF”	“100nF,5%,250V,TP,13x11x6.5,7.5”	
CR46	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CR47	2305-000009	“C-FILM,MPEF”	“100nF,5%,250V,TP,13x11x6.5,7.5”	
CR48	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
CR62	2202-000319	“C-CERAMIC,MLC-RADIAL”	“100nF,10%,100V,X7R,TP,5.1x3.2x”	
D100	0402-000208	DIODE-RECTIFIER	“EK-04,40V,1.5A,DO-41”	
D103	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D104	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DB40	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	
DB41	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	
DB42	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DB43	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	
DG40	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	

Loc. No.	Code No.	Description	Specification	Remarks
DG41	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	
DG42	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DG43	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	
DR40	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	
DR41	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	
DR42	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DR43	0401-000006	DIODE-SWITCHING	“BAV21,250V,250mA,DO-35,TP”	
EY1	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY2	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY5	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY6	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY7	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
EY8	6042-000002	EYELET	“ID1.5,OD2,L3.1,SN,BSS3-E/EH”	
G2	BH71-40300A	PIN-HINGE	“-,BRASS,D2.36,SN,HEAT/SINK”	
JP1	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP10	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP2	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP3	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP5	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP6	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP7	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP8	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP9	3301-000011	CORE-FERRITE BEAD	“AA,3.5x1.0x5.7mm,1500,2375G”	
LB40	2701-001065	INDUCTOR-AXIAL	“0.22UH,10%,3X7MM”	
LG40	2701-001065	INDUCTOR-AXIAL	“0.22UH,10%,3X7MM”	
LR40	2701-001065	INDUCTOR-AXIAL	“0.22UH,10%,3X7MM”	
MP1.0	BH41-00095A	PCB-SOCKET	“PN22MS_SOCKET,SILVER,1,-,1.6T,165*115,PN,1,-,-”	
Q101	0501-000122	TR-SMALL SIGNAL	“2N3904,NPN,625mW,TO-92,TP,100-300”	
Q102	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q103	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
QB03	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
QB40	0501-000412	TR-SMALL SIGNAL	“KSP42,NPN,625mW,TO-92,-,40”	
QB41	0501-000416	TR-SMALL SIGNAL	“KSP92,PNP,625mW,TO-92,TP,40-”	
QG03	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
QG40	0501-000412	TR-SMALL SIGNAL	“KSP42,NPN,625mW,TO-92,-,40”	
QG41	0501-000416	TR-SMALL SIGNAL	“KSP92,PNP,625mW,TO-92,TP,40-”	
QR03	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
QR40	0501-000412	TR-SMALL SIGNAL	“KSP42,NPN,625mW,TO-92,-,40”	
QR41	0501-000416	TR-SMALL SIGNAL	“KSP92,PNP,625mW,TO-92,TP,40-”	
R110	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R111	2001-001000	R-CARBON	“82KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R112	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R113	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R114	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R115	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R116	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R117	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	

Loc. No.	Code No.	Description	Specification	Remarks
R118	2001-000857	R-CARBON	“560OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R119	2001-000006	R-CARBON	“2.4KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R120	2002-001022	R-COMPOSITION	“30MOHM,5%,1/4W,AA,TP,2.5X6.5MM”	
R121	2001-000800	R-CARBON	“5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R122	2001-000633	R-CARBON	“30KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R123	2001-000325	R-CARBON	“120OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R124	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R125	2001-000857	R-CARBON	“560OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R128	2001-000878	R-CARBON	“6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R129	2001-000613	R-CARBON	“3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R132	2001-000003	R-CARBON	“330ohm,5%,1/8W,AA,TP,1.8x3.2mm”	
R136	2001-000449	R-CARBON	“2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R137	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R138	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R150	2001-000356	R-CARBON	“150KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R151	2001-000008	R-CARBON	“15KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R152	2004-000150	R-METAL	“1.5Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R160	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R161	2001-000221	R-CARBON	“1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R162	2001-000800	R-CARBON	“5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R163	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R164	2004-000849	R-METAL	“390Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
RB06	2001-000969	R-CARBON	“75OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB07	2001-000837	R-CARBON	“51KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB08	2001-000003	R-CARBON	“330ohm,5%,1/8W,AA,TP,1.8x3.2mm”	
RB10	2001-000527	R-CARBON	“22OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB40	2001-000780	R-CARBON	“470OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB43	2001-000947	R-CARBON	“7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB44	2001-000527	R-CARBON	“22OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB47	2001-000061	R-CARBON	“33OHM,5%,1/4W,AA,TP,2.4X6.4MM”	
RB48	2001-001088	R-CARBON(S)	“1KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
RB49	2001-000020	R-CARBON(S)	“22OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
RB50	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB51	2004-000849	R-METAL	“390Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
RB52	2001-000530	R-CARBON	“240KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
RB53	2001-000660	R-CARBON	“33KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG06	2001-000969	R-CARBON	“75OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG07	2001-000837	R-CARBON	“51KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG08	2001-000003	R-CARBON	“330ohm,5%,1/8W,AA,TP,1.8x3.2mm”	
RG10	2001-000527	R-CARBON	“22OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG40	2001-000780	R-CARBON	“470OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG43	2001-000947	R-CARBON	“7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG44	2001-000527	R-CARBON	“22OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG47	2001-000061	R-CARBON	“33OHM,5%,1/4W,AA,TP,2.4X6.4MM”	
RG48	2001-001088	R-CARBON(S)	“1KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
RG49	2001-000020	R-CARBON(S)	“22OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
RG50	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	

Loc. No.	Code No.	Description	Specification	Remarks
RG51	2004-000849	R-METAL	“390Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
RG52	2001-000530	R-CARBON	“240KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
RG53	2001-000660	R-CARBON	“33KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR06	2001-000969	R-CARBON	“75OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR07	2001-000837	R-CARBON	“51KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR08	2001-000003	R-CARBON	“330ohm,5%,1/8W,AA,TP,1.8x3.2mm”	
RR10	2001-000527	R-CARBON	“22OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR40	2001-000780	R-CARBON	“470OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR43	2001-000947	R-CARBON	“7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR44	2001-000527	R-CARBON	“22OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR47	2001-000061	R-CARBON	“33OHM,5%,1/4W,AA,TP,2.4X6.4MM”	
RR48	2001-001088	R-CARBON(S)	“1KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
RR49	2001-000020	R-CARBON(S)	“22OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
RR50	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR52	2001-000530	R-CARBON	“240KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
RR53	2001-000660	R-CARBON	“33KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
SK108	4715-001055	SURGE ABSORBER	“1kV,+50-10%,-,-,RADIAL”	
SK150	4715-000106	SURGE ABSORBER	“300V,210-390V,-,-,AXIAL”	
SK151	4715-000106	SURGE ABSORBER	“300V,210-390V,-,-,AXIAL”	
SK153	4715-000106	SURGE ABSORBER	“300V,210-390V,-,-,AXIAL”	
ZD109	0403-000509	DIODE-ZENER	“MTZJ5.6B,5.6V,5.45-5.73V,500mW”	
ZD110	0403-000509	DIODE-ZENER	“MTZJ5.6B,5.6V,5.45-5.73V,500mW”	
HS151	BH99-00008B	“ASSY,HEAT/SINK”	“HS VIDEO,SCREW+NUT,VPS14,-,-,OIL SILICON,-,-”	
CIS	6006-000105	SCREW-ASS’Y MACH	“WSP,BH,+,M3,L16,ZPC(YEL),SWRCH”	
CIS	6021-000118	NUT-HEXAGON	“1C,M3,ZPC(YEL),SM20C”	
CIS	BH13-10335P	IC-HYBRID		
CIS	BH62-00012A	HEAT SINK-VIDEO	“A1050S,T2.0,-,PEGSUS”	

7-4 POWER PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
C601	2305-001049	"C-FILM,MPEF"	"1000nF,10%,275V,BK,31x23x13mm,27.5"	⚠
C604	2305-001049	"C-FILM,MPEF"	"1000nF,10%,275V,BK,31x23x13mm,27.5"	
C607	2301-001392	"C-FILM,MPPF"	"1000nF,5%,450V,BK,26.5x21x15mm,25"	
C613	2401-003128	C-AL	"330uF,20%,450V,GP,BK,30x45,10"	⚠
CIS	6045-001010	SPACER-ROUND	"ID4.0,OD5.8,T2.0,NTR,NYLON6/6,L30.8"	
CIS	BH71-00078A	SHIELD-SMPS	"PN22MS,A1050S,T1.0,-,-,-"	
CIS	BH73-60304C	RUBBER-SUPPORT	"DP15LT,CR V0,GRAY,-,14*7*10,-,-"	
CN601	3711-000262	CONNECTOR-HEADER	"1WALL,3P/5P,1R,3.96mm,STRAIGHT"	⚠
CN602	3711-003380	CONNECTOR-HEADER	"1WALL,2P/3P,1R,3.96mm,ANGLE,SN"	
CN603	3711-003208	CONNECTOR-HEADER	"BOX,13P,1R,2.5mm,ANGLE,SN"	
CN604	3711-003157	CONNECTOR-HEADER	"NOWALL,15P,1R,2.5mm,ANGLE,SN"	
D604	0402-001295	DIODE-RECTIFIER	"GUR460L-5700,600V,4A,DO-201AD,BK"	
D617	0402-000249	DIODE-RECTIFIER	"RG4,400V,1.5A,-"	
D618	0402-000249	DIODE-RECTIFIER	"RG4,400V,1.5A,-"	
FH601	3601-000296	FUSE-CARTRIDGE	"250V,5A,TIME-LAG,CERAMIC,5.2x20mm"	
IC603	0604-001018	PHOTO-COUPLER	"DAR-TR,63-125%,200mW,DIP-4,ST"	
IC612	0604-001018	PHOTO-COUPLER	"DAR-TR,63-125%,200mW,DIP-4,ST"	⚠
IC613	0604-001018	PHOTO-COUPLER	"DAR-TR,63-125%,200mW,DIP-4,ST"	⚠
IC615	1203-000420	IC-NEGA.FIXED REG.	"7905,TO-220,3P,-,PLASTIC,-4.8/"	
L601	BH27-20342P	COIL-LINE FILTER	"25MH,MIN,SQ3535,BULK,-,-"	⚠
L603	BH27-00018A	COIL-CHOKE	"6.8UH,-,DR08*11,BULK,+/-10%,-"	
L604	BH27-00018A	COIL-CHOKE	"6.8UH,-,DR08*11,BULK,+/-10%,-"	
L605	BH27-00053A	COIL CHOKE	"195uH,-,20.20*12.57*6.35,-,-,-"	⚠
R635	2003-000741	R-METAL OXIDE(S)	"56Kohm,5%,3W,AA,TP,6x16mm"	
RL601	3501-001111	RELAY-POWER	"12Vdc,250mW,5A,1FormA,15mS,5mS"	
S/R+P/PCB	6003-000010	SCREW-TAPTITE	"BWH,+,B,M3,L10,ZPC(YEL),SWRCH1"	
S/R+S/SMPS	6003-000010	SCREW-TAPTITE	"BWH,+,B,M3,L10,ZPC(YEL),SWRCH1"	
SH/POW	6502-000001	CABLE CLAMP	"DAWH-5NB,D15,L35,NTR,NYLON66"	
SW1	3403-000190	SWITCH-PUSH	"250V,5A,SPST,ON-OFF"	⚠
T601	BH26-00078A	TRANS-POWER	"210uH,18PIN,EER4445(PL3),PL3,PM2,J2A-1,275/56/13.03.6/3.3uH,5.5uH MAX,ER-4445"	⚠
T602	BH26-30302S	TRANS-SYNC.	"3-1(250UH),-,-,SB-5S,UU1116,3-"	⚠
T603	BH26-00082A	"TRANS,CA"	"240uH,16PIN,ER-3541,PL-3,J2A-1,DMR30,240uH/230uH/5.0uH,13.0uH MAX,ER-3541(16PIN)"	⚠
T604	BH26-00079A	TRANS POWER	"810uH,10P,EE,SB-5S,HM-1,M2B,45uH MAX/AT10KHz,1.20ohm,EE-2229A"	⚠
TH601	1404-001076	THERMISTOR-NTC	"8ohm,15%,-,17mW/C,TP"	
TH602	1404-001154	THERMISTOR-PTC	"4.5OHM,+30%/-20%,220V,270VAC,21A,-,BK"	
BD601	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"	
BD604	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD605	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD606	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD607	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
C600	2401-000025	C-AL	"100uF,20%,16V,GP,TP,6.3x11,5"	
C602	2201-000024	"C-CERAMIC,DISC"	"4.7nF,20%,250VAC,Y5U,TP,16x7,7"	⚠
C603	2201-000024	"C-CERAMIC,DISC"	"4.7nF,20%,250VAC,Y5U,TP,16x7,7"	⚠
C608	2401-000481	C-AL	"10uF,20%,50V,WT,TP,5x11,5"	
C610	2301-001395	"C-FILM,MPEF"	"680nF,10%,63V,TP,18x5x12mm,7.5"	

Loc. No.	Code No.	Description	Specification	Remarks
C611	2301-000148	“C-FILM,PEF”	“10nF,5%,100V,TP,7x3.2x7mm,5mm”	
C612	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C614	2301-000148	“C-FILM,PEF”	“10nF,5%,100V,TP,7x3.2x7mm,5mm”	
C615	2201-000019	“C-CERAMIC,DISC”	“10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5”	
C616	2301-000010	“C-FILM,PEF”	“100nF,5%,100V,TP,11.5x12.5mm,5”	
C617	2401-000971	C-AL	“22uF,20%,50V,WT,TP,6x11mm,5mm”	
C618	2301-000188	“C-FILM,PEF”	“1nF,5%,100V,TP,10.5x12.5x6.5,5”	
C620	2301-001396	“C-FILM,MPEF”	“100nF,10%,630V,TP,18x6.5x13mm,7.5”	
C621	2401-000603	C-AL	“1uF,20%,50V,GP,TP,5x11,5”	
C622	2301-000010	“C-FILM,PEF”	“100nF,5%,100V,TP,11.5x12.5mm,5”	
C623	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C624	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C625	2401-001548	C-AL	“47uF,20%,25V,WT,TP,5x11,5”	
C626	2201-000322	“C-CERAMIC,DISC”	“2.2nF,10%,2kV,Y5P,TP,13x5,10”	
C627	2201-000024	“C-CERAMIC,DISC”	“4.7nF,20%,250VAC,Y5U,TP,16x7,7”	⚠
C628	2201-000024	“C-CERAMIC,DISC”	“4.7nF,20%,250VAC,Y5U,TP,16x7,7”	
C629	2401-000037	C-AL	“470uF,20%,16V,GP,TP,8x11.5,5”	
C630	2201-000019	“C-CERAMIC,DISC”	“10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5”	
C631	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C632	2401-002215	C-AL	“2200uF,20%,25V,WT,TP,13x25,5”	
C633	2401-002215	C-AL	“2200uF,20%,25V,WT,TP,13x25,5”	
C634	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C635	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C636	2401-001838	C-AL	“470uF,20%,25V,WT,TP,10x16,5”	
C637	2401-003139	C-AL	“1000uF,20%,25V,WT,TP,10*20,5mm”	
C638	2401-003139	C-AL	“1000uF,20%,25V,WT,TP,10*20,5mm”	
C639	2401-002215	C-AL	“2200uF,20%,25V,WT,TP,13x25,5”	
C640	2401-000298	C-AL	“100uF,20%,250V,WT,-,18*35.5,7.”	
C641	2401-000058	C-AL	“220uF,20%,100V,GP,TP,12.5x25,5”	
C642	2401-000172	C-AL	“1000uF,20%,35V,GP,TP,12.5x20mm”	
C643	2401-000039	C-AL	“1000uF,20%,16V,GP,TP,10x16,5”	
C644	2401-000042	C-AL	“100uF,20%,16V,GP,TP,6.3x7,5”	
C645	2301-000188	“C-FILM,PEF”	“1nF,5%,100V,TP,10.5x12.5x6.5,5”	
C646	2305-000407	“C-FILM,MPEF”	“470nF,5%,100V,TP,-,5mm”	
C647	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C648	2301-000013	“C-FILM,PEF”	“4.7nF,5%,100V,TP,10.5x12.5x6.5”	
C649	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C650	2401-000037	C-AL	“470uF,20%,16V,GP,TP,8x11.5,5”	
C651	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C652	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C653	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C654	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C655	2401-000971	C-AL	“22uF,20%,50V,WT,TP,6x11mm,5mm”	
C657	2201-000019	“C-CERAMIC,DISC”	“10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5”	
C658	2401-001422	C-AL	“470uF,20%,35V,WT,TP,12.5x25,5”	
C659	2401-001422	C-AL	“470uF,20%,35V,WT,TP,12.5x25,5”	
C660	2201-000019	“C-CERAMIC,DISC”	“10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5”	

Loc. No.	Code No.	Description	Specification	Remarks
C661	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C662	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C663	2201-000023	"C-CERAMIC,DISC"	"2.2nF,20%,125V,Y5U,TP,11x7,5"	
C664	2201-000023	"C-CERAMIC,DISC"	"2.2nF,20%,125V,Y5U,TP,11x7,5"	
CN605	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
CN606	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
CN607	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
CN608	BH71-40300A	PIN-HINGE	"-,BRASS,D2.36,SN,HEAT/SINK"	
D600	0401-000005	DIODE-SWITCHING	"1N4148,100V,200mA,DO-35,TP"	
D605	0401-000005	DIODE-SWITCHING	"1N4148,100V,200mA,DO-35,TP"	
D606	0401-000005	DIODE-SWITCHING	"1N4148,100V,200mA,DO-35,TP"	
D607	0402-000012	DIODE-RECTIFIER	"UF4007,1KV,1A,DO-41,TP"	
D608	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D609	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D610	0406-001062	DIODE-TVS	"P6KE200A,190/200/210V,600W,CAS"	
D611	0402-000012	DIODE-RECTIFIER	"UF4007,1KV,1A,DO-41,TP"	
D612	0401-000006	DIODE-SWITCHING	"BAV21,250V,250mA,DO-35,TP"	
D613	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D614	0401-000005	DIODE-SWITCHING	"1N4148,100V,200mA,DO-35,TP"	
D616	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D622	0402-001118	DIODE-RECTIFIER	"UF1G,400V,1.2A,DO-204AL,TP"	⚠
D623	0402-001118	DIODE-RECTIFIER	"UF1G,400V,1.2A,DO-204AL,TP"	
D624	0401-000005	DIODE-SWITCHING	"1N4148,100V,200mA,DO-35,TP"	
D625	0401-000005	DIODE-SWITCHING	"1N4148,100V,200mA,DO-35,TP"	
D626	0401-000005	DIODE-SWITCHING	"1N4148,100V,200mA,DO-35,TP"	
D627	0401-000005	DIODE-SWITCHING	"1N4148,100V,200mA,DO-35,TP"	
D628	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D630	0402-000274	DIODE-RECTIFIER	"UF4004,400V,1A,DO-41,TP"	
D633	0401-000005	DIODE-SWITCHING	"1N4148,100V,200mA,DO-35,TP"	
EY1	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY10	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY11	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY12	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY13	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY14	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY15	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY16	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY17	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY18	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY19	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY20	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY21	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY22	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY23	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY24	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY25	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY26	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	

Loc. No.	Code No.	Description	Specification	Remarks
EY27	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY28	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY29	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY3	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY30	6042-000002	EYELET	"ID1.5,OD2,L3.1,SN,BSS3-E/EH"	
EY5	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY6	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY7	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY8	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
EY9	6042-000001	EYELET	"ID2.2,OD2.7,L3.1,SN,BSS3-E/EH"	
FH601	3602-000001	FUSE-CLIP	"-,-,30mohm"	
IC601	1203-001992	IC-PWM CONTROLLER	"33262,DIP,8P,300MIL,PLASTIC,14/18V,800mW,-40to+105C,500mA,-,ST"	⚠
IC602	BH13-00016A	IC-SMPS CONTROLLER	"TDA16850,PN22MS,8P,-25 to +150C,DIP,15mA,-0.3 to 25V,ST"	⚠
IC604	1203-000002	IC-POSI.ADJUST REG.	"431,TO-92,3P,-,PLASTIC,2.44/2."	
IC614	1203-000002	IC-POSI.ADJUST REG.	"431,TO-92,3P,-,PLASTIC,2.44/2."	
JP100	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP101	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP102	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP105	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP106	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP108	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP110	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP112	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP113	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP115	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP116	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP117	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP118	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP120	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP123	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP129	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP130	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP131	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP132	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP133	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP134	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP135	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP136	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP137	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP138	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP139	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP140	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP141	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP142	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP143	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP28	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	
JP33	BH39-40305U	CBF HARNESS	"52MM,AWG22(0.6PI),-,-,AWG22(0."	

Loc. No.	Code No.	Description	Specification	Remarks
JP34	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP40	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP49	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP62	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP63	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP64	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP66	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP69	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP71	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP83	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP84	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP85	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP89	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP90	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP91	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP92	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP93	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP94	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP96	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
MP1.0	BH41-00094A	PCB-POWER	“PN22MS_POWER,FR1,1,-,1.6T,330*247,PN,1,-,-”	
Q602	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q603	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q605	0501-000321	TR-SMALL SIGNAL	“KSB1116-Y,PNP,750mW,TO-92,TP,135-270”	
Q606	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q607	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q608	0501-000303	TR-SMALL SIGNAL	“KSA733,PNP,250mW,TO-92,TP,120-240”	
Q609	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q610	0501-000010	TR-SMALL SIGNAL	“KSC1008,NPN,800mW,TO-92,TP,120-240”	
Q611	0501-000303	TR-SMALL SIGNAL	“KSA733,PNP,250mW,TO-92,TP,120-240”	
Q612	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q613	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
Q614	0501-000586	TR-SMALL SIGNAL	“KSC945,NPN,250mW,TO-92,TP,120-240”	
R600	2001-000107	R-CARBON(S)	“150KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	⚠
R601	2001-000114	R-CARBON(S)	“180KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	⚠
R602	2005-001013	“R-WIRE WOUND,NON”	“0.14ohm,1%,3W,AA,TP,5.5x15mm”	
R603	2004-004997	R-METAL	“420Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R604	2004-004997	R-METAL	“420Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R605	2001-000331	R-CARBON	“12KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R606	2004-004997	R-METAL	“420Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R607	2004-000216	R-METAL	“10Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R608	2004-000216	R-METAL	“10Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R609	2004-000837	R-METAL	“374Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R610	2004-000837	R-METAL	“374Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R612	2004-000216	R-METAL	“10Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R614	2001-001170	R-CARBON(S)	“6.8OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R615	2001-000065	R-CARBON	“10KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R616	2001-000605	R-CARBON	“3.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R617	2005-001074	“R-WIRE WOUND,NON”	“0.33OHM,5%,3W,AA,TP,5.5X15MM”	
R618	2001-000552	R-CARBON	“270OHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R619	2004-000849	R-METAL	“390Kohm,1%,1/4W,AA,TP,2.4x6.4m”	

Loc. No.	Code No.	Description	Specification	Remarks
R620	2004-000849	R-METAL	“390Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R621	2004-001198	R-METAL	“68Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R624	2004-000837	R-METAL	“374Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R625	2004-000837	R-METAL	“374Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R626	2001-000023	R-CARBON	“47OHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R627	2001-001093	R-CARBON(S)	“2.2KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R628	2008-000102	R-FUSIBLE	“0.22ohm,5%,1W,AA,TP,4.3x13mm”	
R629	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R630	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R631	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R632	2001-000061	R-CARBON	“33OHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R633	2004-000796	R-METAL	“33Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R634	2004-000796	R-METAL	“33Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R636	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R637	2003-000448	R-METAL OXIDE(S)	“100Kohm,5%,2W,AA,TP,4x12mm”	
R638	2001-001131	R-CARBON(S)	“33KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R639	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R640	2001-000575	R-CARBON	“2KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R641	2001-000397	R-CARBON	“180KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R642	2004-000498	R-METAL	“2.7Kohm,1%,1/4W,AA,TP,2.4x6.4m”	⚠
R643	2004-000252	R-METAL	“11Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	⚠
R644	2004-000728	R-METAL	“3.9Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R646	2002-001068	R-COMPOSITION	“180Kohm,5%,1/2W,AA,TP,3.9x9mm”	
R647	2001-000003	R-CARBON	“330ohm,5%,1/8W,AA,TP,1.8x3.2mm”	
R648	2001-000060	R-CARBON	“6.8KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R649	2001-001170	R-CARBON(S)	“6.8OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R650	2002-001068	R-COMPOSITION	“180Kohm,5%,1/2W,AA,TP,3.9x9mm”	
R651	2005-001074	“R-WIRE WOUND,NON”	“0.33OHM,5%,3W,AA,TP,5.5X15MM”	
R653	2004-000560	R-METAL	“220Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R654	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R655	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R657	2001-000036	R-CARBON	“330OHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R658	2001-001038	R-CARBON(S)	“0.56OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R659	2001-001108	R-CARBON(S)	“22KOHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R660	2001-000065	R-CARBON	“10KOHM,5%,1/4W,AA,TP,2.4X6.4MM”	
R662	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R663	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R664	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R665	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R666	2001-000331	R-CARBON	“12KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R667	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R668	2001-001053	R-CARBON(S)	“1.5OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R669	2001-000429	R-CARBON	“1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R670	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R671	2004-000216	R-METAL	“10Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R672	3601-001092	FUSE-AXIAL LEAD	“125V,2.5A,SLOW-BLOW,EPOXY,7.1x3.1mm”	
R673	2003-000741	R-METAL OXIDE(S)	“56Kohm,5%,3W,AA,TP,6x16mm”	
R684	2001-000780	R-CARBON	“470OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
ZD600	0403-000753	DIODE-ZENER	“MTZJ27D,27V,26.29-27.64V,500mW”	
ZD601	0406-001062	DIODE-TVS	“P6KE200A,190/200/210V,600W,CAS”	

Loc. No.	Code No.	Description	Specification	Remarks
ZD602	0403-001068	DIODE-ZENER	“UZ4.7BSA,4.7V,4.47-4.65V,500mW”	
ZD603	0403-001220	DIODE-ZENER	“UZ2.7BSB,2.69-2.91V,500MW,DO-34,TP”	
ZD604	0403-000753	DIODE-ZENER	“MTZJ27D,27V,26.29-27.64V,500mW”	
HS611	BH99-00005J	ASSY HEAT/SINK	“HS,SPRING,TOP223Y,-,-,OIL SILICON”	
CIS	1203-001506	IC-PWM CONTROLLER	“223,TO-220,3P,-,PLASTIC,-0.3/9”	
CIS	BH61-00004A	SPRING-TR	“CDA,CDB,SUS304,T0.5,-,-,-,-”	
CIS	BH62-00008A	HEAT SINK-TR	“-,SPC-1 L20*H45*T1,-,CDB”	
HS615	BH99-00005L	ASSY HEAT/SINK	“HS TR,SPRING,FES8DT,-,-,OIL SILICON”	
CIS	0402-001388	DIODE-RECTIFIER	“FES8DT,200V,8A,TO-220AC,ST”	
CIS	BH61-00004A	SPRING-TR	“CDA,CDB,SUS304,T0.5,-,-,-,-”	
CIS	BH62-00008A	HEAT SINK-TR	“-,SPC-1 L20*H45*T1,-,CDB”	
HS619	BH99-00005M	ASSY HEAT/SINK	“HS TR,SPRING,FES8GT,-,-,OIL SILICON”	
CIS	0402-000189	DIODE-RECTIFIER	“BYV29-400,400V,8A,TO-220,ST”	
CIS	BH61-00004A	SPRING-TR	“CDA,CDB,SUS304,T0.5,-,-,-,-”	
CIS	BH62-00008A	HEAT SINK-TR	“-,SPC-1 L20*H45*T1,-,CDB”	
HS621	BH99-00005N	ASSY HEAT/SINK	“HS TR,SPRING,FES8JT,-,-,OIL SILICON”	
CIS	0402-001378	DIODE-RECTIFIER	“FES8JT,600V,8A,TO-220AC,ST”	
CIS	BH61-00004A	SPRING-TR	“CDA,CDB,SUS304,T0.5,-,-,-,-”	
CIS	BH62-00008A	HEAT SINK-TR	“-,SPC-1 L20*H45*T1,-,CDB”	
HS620	BH99-10019R	ASSY HEAT/SINK	“HS,SOLDERING,RG4C,-,-,-”	
CIS	0202-001044	SOLDER-WIRE.	“S63S-W3.0,S63S,D3,63Sn/37Pb,-”	
CIS	0402-000250	DIODE-RECTIFIER	“RG4C,1000V,1A,-”	
CIS	BH62-30024B	HEAT/SINK-IC	“SPC-1,T1,SN COATING,-”	
HS602	BH99-10019S	ASSY HEAT/SINK	“HS TR,SCREW+NUT,FES8JT,-,-,OIL SILICON”	
CIS	0402-001378	DIODE-RECTIFIER	“FES8JT,600V,8A,TO-220AC,ST”	
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	BH62-30024B	HEAT/SINK-IC	“SPC-1,T1,SN COATING,-”	
HS604	BH99-10046J	ASSY HEAT/SINK	“HS TR,SPRING,FQAF15N70,-,-,OIL SILICON”	
CIS	BH61-70003A	SPRING	“CVT4857,STS304-W1/2H,T0.5,W3.8”	
CIS	BH62-30412E	HEAT SINK-POWER	“A6063S,-,-,PG”	
HSD601	BH99-10047D	ASSY HEAT/SINK	“HS DIODE,SPRING,D5SBA60,-,-,OIL SILICON”	
CIS	0402-001379	DIODE-BRIDGE	“G5SBA60,600V,6A,SIP-4,ST”	
CIS	BH61-70003A	SPRING	“CVT4857,STS304-W1/2H,T0.5,W3.8”	
CIS	BH62-30409A	HEAT/SINK-TR	“A6063S,T1.5,-,CGH7609”	
HS601	BH99-10052K	ASSY HEAT/SINK	“HS TR,SPRING,2SK1941,-,-,OIL SILICON”	
CIS	BH61-70003A	SPRING	“CVT4857,STS304-W1/2H,T0.5,W3.8”	
CIS	BH62-30411B	HEAT/SINK	“A6063S,T1.8,-,ALL”	

7-5 MISC PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
BOTTOM	2401-000025	C-AL	"100uF,20%,16V,GP,TP,6.3x11,5"	
C202	2401-000042	C-AL	"100uF,20%,16V,GP,TP,6.3x7,5"	
CIS	BH39-00197A	CBF-HARNESS	"PN22MS,UL1007,UL/CSA,5P,250MM,BLU/WHT/RED/YEL,AWG26,SMH250,-,-,-,-,-,-,-,CBF-CON"	
CIS	BH39-00198A	CBF-HARNESS	"PN22MS,UL1007,UL/CSA,5P,250MM,BLU/WHT/RED/YEL,AWG26,SMH200,-,-,-,-,-,-,-,CBF-CON"	
CIS	BH39-00199A	CBF-HARNESS	"PN22MS,UL1007,UL/CSA,8P,100MM,BLU/WHT/RED/YEL,AWG26,SMH250,-,-,-,-,-,-,-,CBF-CON"	
CIS	BH39-00200A	CBF-HARNESS	"PN22MS,UL2835,UL/CSA,8P,300MM,BLK,AWG28-9C,SMP250,SMH200,-,-,-,-,-,-,CBF-CONN AS"	
CIS	BH39-00201A	CBF-HARNESS	"PN22MS,UL2835,UL/CSA,8P,450MM,BLK,AWG28-9C,SMH200,SMH250,-,-,-,-,-,-,CBF-CONN AS"	
CIS	BH39-00204A	CBF-HARNESS	"PN22MS,UL1007,UL/CSA,15P,300MM,BLU/WHT/RED/YEL,AWG26,SMH250,-,-,-,-,-,-,-,CBF-CO"	
CIS	BH39-00205A	CBF-HARNESS	"PN22MS,UL2547,UL/CSA,4P,250MM,GRY,AWG26-3C,SMH200,-,-,-,-,-,-,-,CBF-CONN ASS'Y"	
CIS	BH39-00221A	CBF-HARNESS-c	"PN22MS,FLEXIBLE FLAT,UL/CSA,-,45MM,WHT,AWM2896,-,-,-,-,-,-,-,-,FLEXIBLE FLAT CAB"	
CIS	BH39-00252A	CBF HARNESS	"PN22MS,UL1007,UL/CSA,15P,100MM,BLU/BLK/WHT,AWG26,SMH200-15,-,-,-,-,-,-,-,-"	
CIS	BH39-00253A	CBF HARNESS	"PN22MS,UL1007,UL/CSA,3P,100MM,BLU/WHT/BLK,AWG26,SMH250-03,-,-,-,-,-,-,-,-"	
CIS	BH71-00130A	SHIELD-VIDEO/BNC	"A1050S,1.0,-,-,-,-,-"	
CIS	BH75-00069A	UNIT/BRKT	"PG17HS,-,DB-1529B,-,-"	
CN201	3710-001180	CONNECTOR-SOCKET	"22P,1R,2.54mm,ANGLE,AUF"	
CN202	3711-004723	CONNECTOR-HEADER	"BOX,15P,1R,2.5mm,ANGLE,SN"	
CN203	3708-001540	CONNECTOR-FPC/FC/PIC	"8P,1.25mm,STRAIGHT,SN"	
CN204	3711-004123	CONNECTOR-HEADER	"BOX,15P,1R,2mm,ANGLE,SN"	
CN205	3711-004228	CONNECTOR-HEADER	"BOX,6P,1R,2MM,ANGLE,SN"	
CN206	3711-000057	CONNECTOR-HEADER	"BOX,3P,1R,2.5mm,ANGLE,SN"	
CN801	3711-000057	CONNECTOR-HEADER	"BOX,3P,1R,2.5mm,ANGLE,SN"	
CN802	3711-002659	CONNECTOR-HEADER	"BOX,2P,1R,2.5mm,ANGLE,SN"	
CN803	3711-004068	CONNECTOR-HEADER	"BOX,5P,1R,2mm,ANGLE,SN"	
CN804	3711-001111	CONNECTOR-HEADER	"BOX,8P,1R,2.50mm,ANGLE,SN"	
CN881	3711-000992	CONNECTOR-HEADER	"BOX,5P,1R,2.50mm,ANGLE,SN"	
IC101	1001-001101	IC-ANALOG SWITCH	"S1D2507B01-A0B0,-,SDIP,24P,300MIL,SINGLE,7V,-25to+75C,PLASTIC,0.3W,-,-,-,ST,-"	
IC201	0903-001194	IC-MICROCONTROLLER	"3P863,8Bit,SDIP,42P,600MIL,12MHz,ST,CMOS,PLASTIC,5V,-,-40to+85C,1040BYTE,48KBYTE"	
IC201_SOCK	3704-001071	SOCKET-IC	"42P,DIP,SN,1.778mm"	
IC203	1103-001171	IC-EEPROM	"L51DC,16KBit,DIP,8P,300MIL,10mS,5V,10%,PLASTIC,-25to+70C,10uA,CMOS,ST"	
IC204	1103-001087	IC-EEPROM	"24LC21,128x8BIT,DIP,8P,300MIL,"	
IC205	1204-001690	IC-HOR./VER.PROCESSO	"TDA4821P,DIP,20P,300MIL,PLASTIC,3.6V,200mW,-20to+70C,ST,Autosize"	
IC206	1203-001543	IC-VOLTAGE REGULATOR	"78R33,TO-220,4P,400MIL,PLASTIC"	
IC801	1201-001199	IC-POWER AMP	"6510,SIP,10P,150MIL,DUAL,-,PLA"	
IC803	1201-001199	IC-POWER AMP	"6510,SIP,10P,150MIL,DUAL,-,PLA"	
IC804	1201-001199	IC-POWER AMP	"6510,SIP,10P,150MIL,DUAL,-,PLA"	
IC881	BH32-00001A	SENSOR MAG	"TMC3000NF(6),15V,-"	
IS601	2901-001205	FILTER-EMI AC LINE	"250V,3A,UL/CSA(ETC),2200pF,50x24x41mm,BK,PVC UL1617"	
X201_1	2801-001381	CRYSTAL-UNIT	"12MHz,30ppm,28-AAA,30pF,50ohm,"	
X202	2804-001371	OSCILLATOR-CLOCK	"12MHz,100ppm,30pF,ST,3.3V,15mA"	
BD101	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD201	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD202	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
BD203	3301-000011	CORE-FERRITE BEAD	"AA,3.5x1.0x5.7mm,1500,2375G"	
C101	2202-002009	"C-CERAMIC,MLC-AXIAL"	"100nF,+80-20%,50V,Y5V,TP,2.3X3"	
C103	2201-000573	"C-CERAMIC,DISC"	"0.047nF,5%,50V,NP0,TP,5x3.5,5"	
C104	2201-000573	"C-CERAMIC,DISC"	"0.047nF,5%,50V,NP0,TP,5x3.5,5"	
C105	2201-000573	"C-CERAMIC,DISC"	"0.047nF,5%,50V,NP0,TP,5x3.5,5"	

Loc. No.	Code No.	Description	Specification	Remarks
C106	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	
C107	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C108	2305-000665	“C-FILM,MPEF”	“100nF,5%,63V,TP,7.5x4.0x5.0mm,”	
C109	2301-000188	“C-FILM,PEF”	“1nF,5%,100V,TP,10.5x12.5x6.5,5”	
C123	2401-000042	C-AL	“100uF,20%,16V,GP,TP,6.3x7,5”	
C159	2305-000009	“C-FILM,MPEF”	“100nF,5%,250V,TP,13x11x6.5,7.5”	
C160	2201-000291	“C-CERAMIC,DISC”	“1nF,10%,500V,Y5P,TP,7.5x3.5,5”	
C161	2401-000046	C-AL	“10uF,20%,250V,GP,TP,10x20,5”	
C170	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C171	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	
C200	2305-000009	“C-FILM,MPEF”	“100nF,5%,250V,TP,13x11x6.5,7.5”	
C201	2401-001101	C-AL	“330uF,20%,16V,GP,TP,8x11.5,5”	
C203	2201-000138	“C-CERAMIC,DISC”	“100pF,10%,50V,Y5P,TP,4.0X4.0,2”	
C204	2201-000247	“C-CERAMIC,DISC”	“0.015nF,5%,50V,NP0,TP,5x3,5”	
C205	2201-000247	“C-CERAMIC,DISC”	“0.015nF,5%,50V,NP0,TP,5x3,5”	
C206	2401-000443	C-AL	“10uF,20%,25V,GP,TP,5x5mm,2mm”	
C207	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C208	2401-000443	C-AL	“10uF,20%,25V,GP,TP,5x5mm,2mm”	
C209	2201-000017	“C-CERAMIC,DISC”	“1nF,10%,50V,Y5P,TP,5x3.5,5”	
C211	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C212	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C213	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C214	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C215	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	
C216	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	
C217	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C218	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C220	2201-000370	“C-CERAMIC,DISC”	“0.22nF,10%,50V,Y5P,TP,4x3.5,5”	
C221	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C241	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C242	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C243	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C244	2401-000480	C-AL	“10uF,20%,50V,GP,TP,5x11,5”	
C251	2301-000019	“C-FILM,PEF”	“47nF,10%,100V,TP,8.9x5.1x13.5m”	
C252	2202-000669	“C-CERAMIC,MLC-RADIAL”	“10nF,10%,50V,X7R,TP,3.8x5.8,5.”	
C253	2202-000669	“C-CERAMIC,MLC-RADIAL”	“10nF,10%,50V,X7R,TP,3.8x5.8,5.”	
C254	2401-000443	C-AL	“10uF,20%,25V,GP,TP,5x5mm,2mm”	
C255	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C256	2201-000234	“C-CERAMIC,DISC”	“0.15nF,5%,50V,NP0,TP,9x3,5”	
C257	2301-000019	“C-FILM,PEF”	“47nF,10%,100V,TP,8.9x5.1x13.5m”	
C258	2201-000119	“C-CERAMIC,DISC”	“100nF,+80-20%,50V,Y5V,TP,8x3,5”	
C259	2202-000669	“C-CERAMIC,MLC-RADIAL”	“10nF,10%,50V,X7R,TP,3.8x5.8,5.”	
C260	2202-000669	“C-CERAMIC,MLC-RADIAL”	“10nF,10%,50V,X7R,TP,3.8x5.8,5.”	
C801	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C802	2401-000025	C-AL	“100uF,20%,16V,GP,TP,6.3x11,5”	
C803	2401-000603	C-AL	“1uF,20%,50V,GP,TP,5x11,5”	
C804	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	

Loc. No.	Code No.	Description	Specification	Remarks
C805	2401-003080	C-AL	“3.3UF,20%,50V,BP,TP,5X11,2.5”	
C806	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C807	2401-003080	C-AL	“3.3UF,20%,50V,BP,TP,5X11,2.5”	
C808	2401-000603	C-AL	“1uF,20%,50V,GP,TP,5x11,5”	
C809	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C841	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C842	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C843	2401-003080	C-AL	“3.3UF,20%,50V,BP,TP,5X11,2.5”	
C844	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C845	2401-003080	C-AL	“3.3UF,20%,50V,BP,TP,5X11,2.5”	
C846	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C847	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C848	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C849	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C850	2401-003080	C-AL	“3.3UF,20%,50V,BP,TP,5X11,2.5”	
C851	2202-002009	“C-CERAMIC,MLC-AXIAL”	“100nF,+80-20%,50V,Y5V,TP,2.3X3”	
C852	2401-003080	C-AL	“3.3UF,20%,50V,BP,TP,5X11,2.5”	
C853	2401-001509	C-AL	“47uF,20%,16V,GP,TP,5x7mm,5”	
C881	2401-001548	C-AL	“47uF,20%,25V,WT,TP,5x11,5”	
C882	2202-000654	“C-CERAMIC,MLC-RADIAL”	“100nF,10%,50V,X7R,TP,5.1x6.6x3.2mm,5”	
C883	2401-000025	C-AL	“100uF,20%,16V,GP,TP,6.3x11,5”	
C884	2401-000025	C-AL	“100uF,20%,16V,GP,TP,6.3x11,5”	
CB01	2401-000443	C-AL	“10uF,20%,25V,GP,TP,5x5mm,2mm”	
CB02	2401-000443	C-AL	“10uF,20%,25V,GP,TP,5x5mm,2mm”	
CG01	2401-000443	C-AL	“10uF,20%,25V,GP,TP,5x5mm,2mm”	
CG02	2401-000443	C-AL	“10uF,20%,25V,GP,TP,5x5mm,2mm”	
CR01	2401-000443	C-AL	“10uF,20%,25V,GP,TP,5x5mm,2mm”	
CR02	2401-000443	C-AL	“10uF,20%,25V,GP,TP,5x5mm,2mm”	
D101	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D150	0402-000006	DIODE-RECTIFIER	“1N4007GP,1000V,1A,DO-41,TP”	
D151	0402-000006	DIODE-RECTIFIER	“1N4007GP,1000V,1A,DO-41,TP”	
D200	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D201	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D203	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
D204	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	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DB04	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	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DG04	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	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	
DR04	0401-000005	DIODE-SWITCHING	“1N4148,100V,200mA,DO-35,TP”	

Loc. No.	Code No.	Description	Specification	Remarks
EY101	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY102	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY103	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY104	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
EY105	6042-000001	EYELET	“ID2.2,OD2.7,L3.1,SN,BSS3-E/EH”	
IC202	1203-000495	IC-RESET	“7045,T0-92,3P,-,PLASTIC,4.3/4.”	
JP756	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP763	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP764	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP777	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP779	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP780	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP782	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP786	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP793	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP795	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP802	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP804	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP806	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP807	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP808	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP810	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP811	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP812	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP813	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP814	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP815	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP816	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP818	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP820	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP821	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP822	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP823	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP824	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP825	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
JP826	BH39-40305U	CBF HARNESS	“52MM,AWG22(0.6PI),-,-,AWG22(0.”	
MP1.0	BH41-00116A	PCB-BNC	“PN22MS_BNC,SILVER,2L,-,-,24x110mm,-,-,BNC,-”	
QB02	0501-000621	TR-SMALL SIGNAL	“2N5770,NPN,450mW,TO-92,TP,-”	
QG02	0501-000621	TR-SMALL SIGNAL	“2N5770,NPN,450mW,TO-92,TP,-”	
QR02	0501-000621	TR-SMALL SIGNAL	“2N5770,NPN,450mW,TO-92,TP,-”	
R101	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R102	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R103	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R104	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R105	2001-000666	R-CARBON	“33OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R106	2001-000490	R-CARBON	“200OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R107	2001-000666	R-CARBON	“33OHM,5%,1/8W,AA,TP,1.8X3.2MM”	

Loc. No.	Code No.	Description	Specification	Remarks
R108	2001-000666	R-CARBON	“33OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R109	2001-000773	R-CARBON	“470KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R126	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R127	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R133	2001-000577	R-CARBON	“2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R141	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R142	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R143	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R144	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R153	2004-000964	R-METAL	“470Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R154	2001-000028	R-CARBON(S)	“100OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R201	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R202	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R204	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R205	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R206	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R207	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R208	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R209	2001-000591	R-CARBON	“3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R210	2001-000977	R-CARBON	“8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R211	2001-000515	R-CARBON	“220OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R214	2001-000435	R-CARBON	“1MOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R215	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R216	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R217	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R218	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R219	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	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R222	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R223	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R224	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R225	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R226	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R227	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R228	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R229	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R230	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R231	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R232	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R233	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R234	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R241	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R242	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R243	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R244	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R245	2001-000869	R-CARBON	“56OHM,5%,1/8W,AA,TP,1.8X3.2MM”	

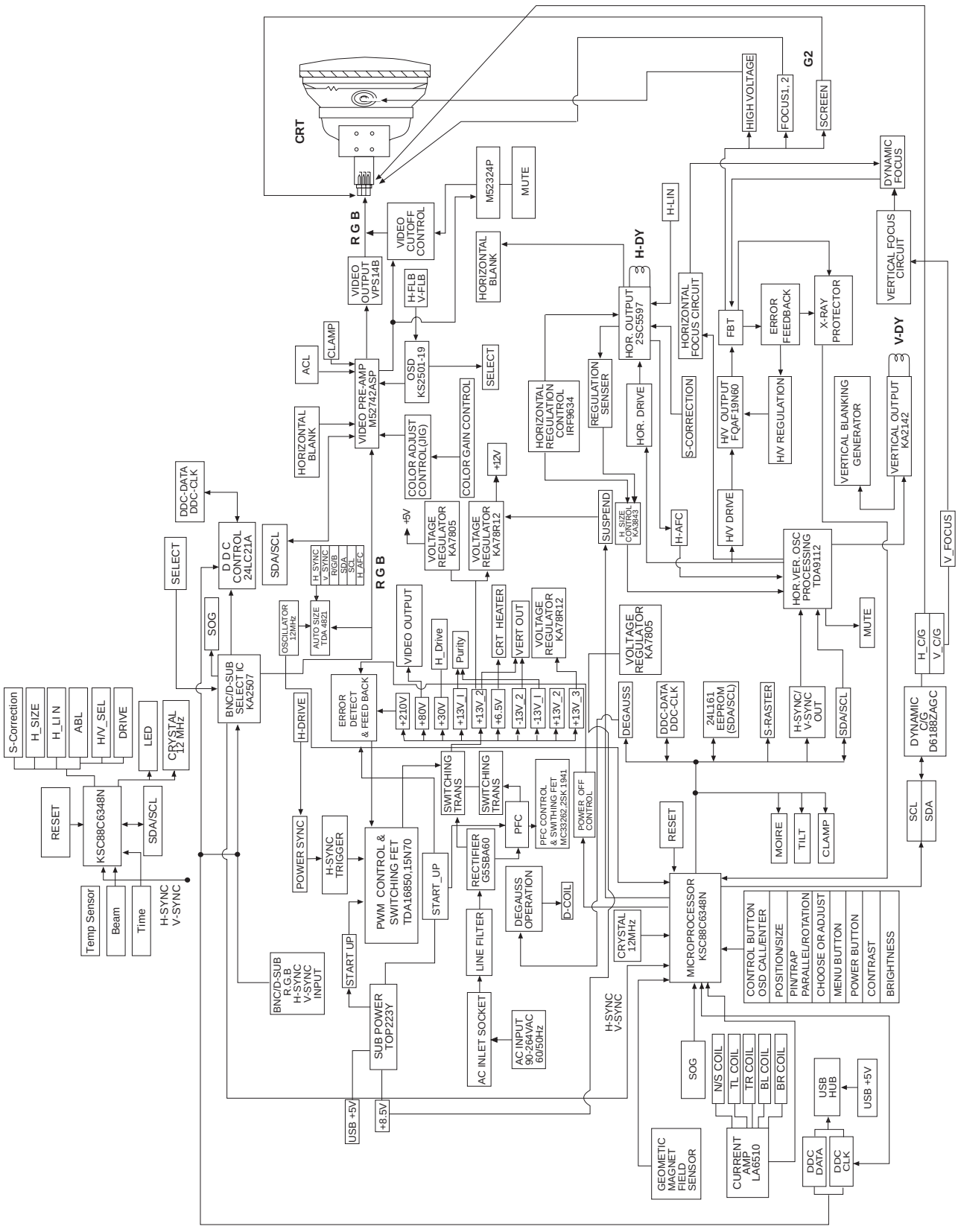
Loc. No.	Code No.	Description	Specification	Remarks
R246	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R247	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R251	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R252	2001-000490	R-CARBON	“200OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R253	2001-000490	R-CARBON	“200OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R256	2001-000302	R-CARBON	“10OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R257	2001-000490	R-CARBON	“200OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R258	2001-000490	R-CARBON	“200OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R259	2001-000273	R-CARBON	“100KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R260	2001-000977	R-CARBON	“8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R261	2001-000490	R-CARBON	“200OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R262	2001-000734	R-CARBON	“4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R263	2001-000302	R-CARBON	“10OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R264	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R265	2001-000281	R-CARBON	“100OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R266	2001-000591	R-CARBON	“3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R267	2001-000006	R-CARBON	“2.4KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R268	2001-000490	R-CARBON	“200OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R269	2001-000003	R-CARBON	“330ohm,5%,1/8W,AA,TP,1.8x3.2mm”	
R270	2001-000800	R-CARBON	“5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R802	2001-000786	R-CARBON	“47KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R803	2001-000864	R-CARBON	“56KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R804	2001-001000	R-CARBON	“82KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R805	2001-000744	R-CARBON	“4.7OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R806	2003-000789	R-METAL OXIDE(S)	“75ohm,5%,1W,AA,TP,3.3x9mm”	
R807	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R808	2001-000744	R-CARBON	“4.7OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R809	2003-000710	R-METAL OXIDE(S)	“47ohm,5%,2W,AA,TP,4x12mm”	
R810	2001-000563	R-CARBON	“27KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R811	2004-000616	R-METAL	“24Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R812	2004-000216	R-METAL	“10Kohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R813	2004-001022	R-METAL	“5.6Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R814	2004-000481	R-METAL	“2.4Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R841	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R842	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R843	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R844	2001-000744	R-CARBON	“4.7OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R845	2003-000587	R-METAL OXIDE(S)	“22ohm,5%,1W,AA,TP,3.3x9mm”	
R846	2001-000744	R-CARBON	“4.7OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R847	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R848	2003-000587	R-METAL OXIDE(S)	“22ohm,5%,1W,AA,TP,3.3x9mm”	
R849	2004-001022	R-METAL	“5.6Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R850	2004-000458	R-METAL	“2.2Kohm,1%,1/4W,AA,TP,2.4x6.4m”	
R851	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R852	2001-000290	R-CARBON	“10KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R853	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R854	2001-000744	R-CARBON	“4.7OHM,5%,1/8W,AA,TP,1.8X3.2MM”	

Loc. No.	Code No.	Description	Specification	Remarks
R855	2003-000587	R-METAL OXIDE(S)	“22ohm,5%,1W,AA,TP,3.3x9mm”	
R856	2001-000744	R-CARBON	“4.7OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R857	2001-000411	R-CARBON	“18KOHM,5%,1/8W,AA,TP,1.8X3.2MM”	
R858	2003-000587	R-METAL OXIDE(S)	“22ohm,5%,1W,AA,TP,3.3x9mm”	
R881	2001-000019	R-CARBON(S)	“10OHM,5%,1/2W,AA,TP,2.4X6.4MM”	
R882	2004-000970	R-METAL	“470ohm,1%,1/4W,AA,TP,2.4x6.4mm”	
R883	2004-000970	R-METAL	“470ohm,1%,1/4W,AA,TP,2.4x6.4mm”	
RB01	2001-000969	R-CARBON	“75OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB02	2001-000302	R-CARBON	“10OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB03	2001-000969	R-CARBON	“75OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB04	2001-000666	R-CARBON	“33OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RB05	2001-000527	R-CARBON	“22OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG01	2001-000969	R-CARBON	“75OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG02	2001-000302	R-CARBON	“10OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG03	2001-000969	R-CARBON	“75OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG04	2001-000302	R-CARBON	“10OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RG05	2001-000527	R-CARBON	“22OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR01	2001-000969	R-CARBON	“75OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR02	2001-000302	R-CARBON	“10OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR03	2001-000969	R-CARBON	“75OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR04	2001-000302	R-CARBON	“10OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
RR05	2001-000527	R-CARBON	“22OHM,5%,1/8W,AA,TP,1.8X3.2MM”	
ZD101	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD102	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD103	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD104	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD105	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD106	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD107	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD108	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD111	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD112	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD114	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD115	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD118	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	
ZD119	0403-000361	DIODE-ZENER	“UZ6.2BSB,6.2V,5.99-6.24V,500mW”	

7-5 Others

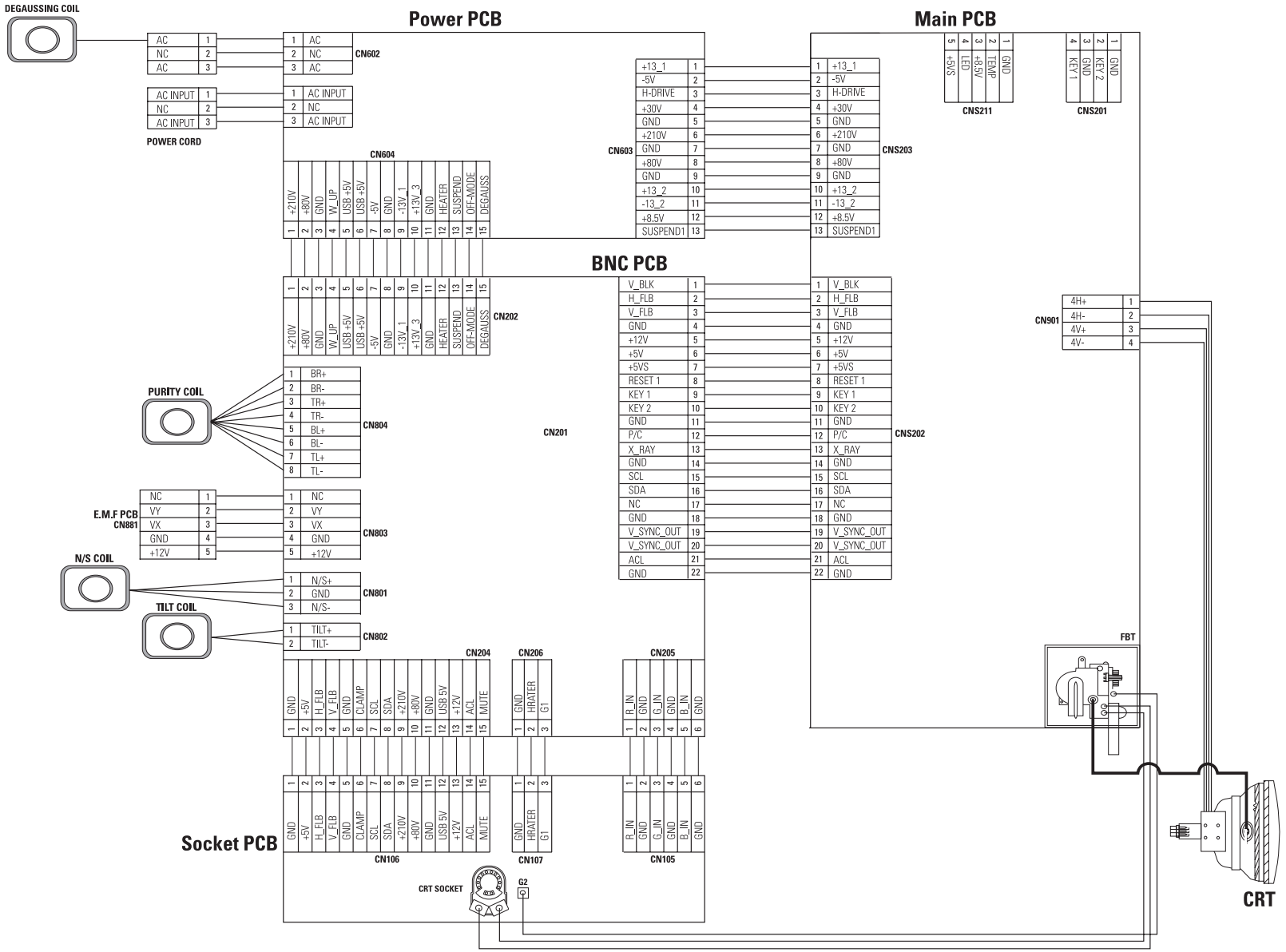
Part Name	Code No.	Description	Specification	Remarks
CRT	BH03-00043C	CRT-BC	“M51LRY22X61,120,21,0.24,-,29.1,IFT,H/C,NH,-,TCO,TILT,4”	
SIGNAL/CABLE	BH39-00001A	CBF-SIGNAL	“-,1830MM,15P/15P,IVORY,2990,D-SUB/MALE”	
USB/CABLE	BH39-00107A	USB-CABLE	“DET,1830MM,-,-,USB CABLE,USB CON/MALE”	
P/CORD	BH39-10004A	POWER CORD	“ MSP48E(VCTF 3*0.75§±),MSC-30K, L:1830MM, IVORY(IV01)”	
B/D ASS’Y CODE	BH98-00161C	ASS’Y PCB/SOCKET	PN22N*	
	BH98-00162B	ASS’Y PCB/POWER	PN22N*	
	BH98-00163C	ASS’Y PCB/BNC	PN22N*	
	BH98-00159B	ASS’Y PCB/MAIN	PN22N*	
	BH99-00027A	ASS’Y PCB/DSP	PN22N*	
	BH99-00026A	ASS’Y PCB/USB	PN22N*	

8 Block Diagram



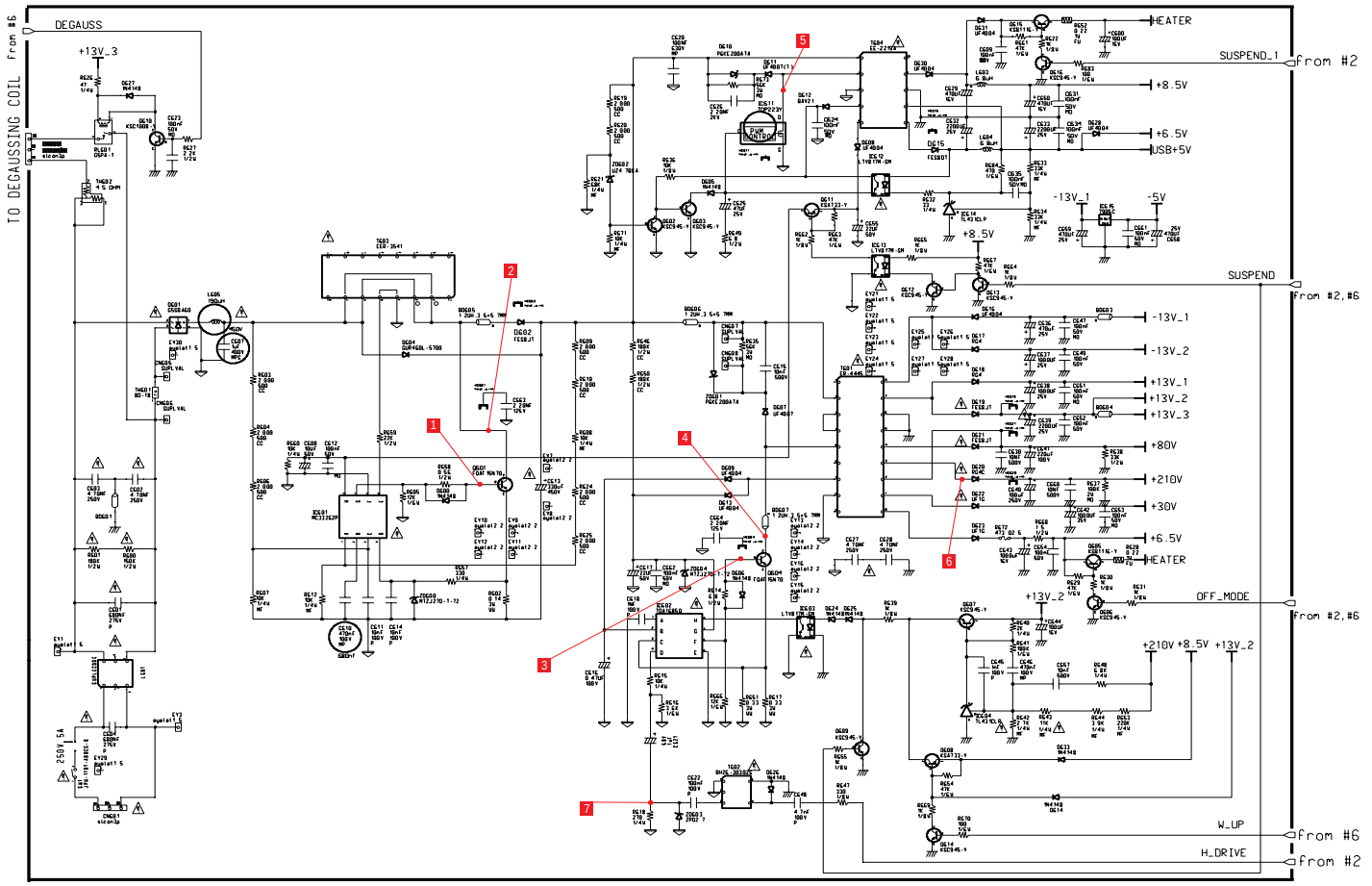
Memo

9 Wiring Diagram

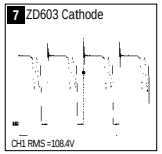


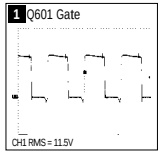
10 Schematic Diagrams

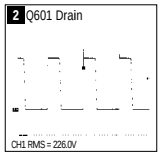
10-1 Power Part Schematic Diagram

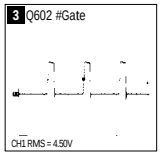


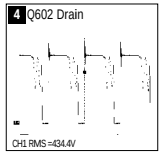
WAVEFORMS

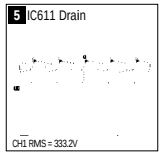


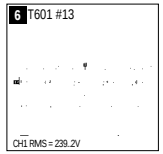




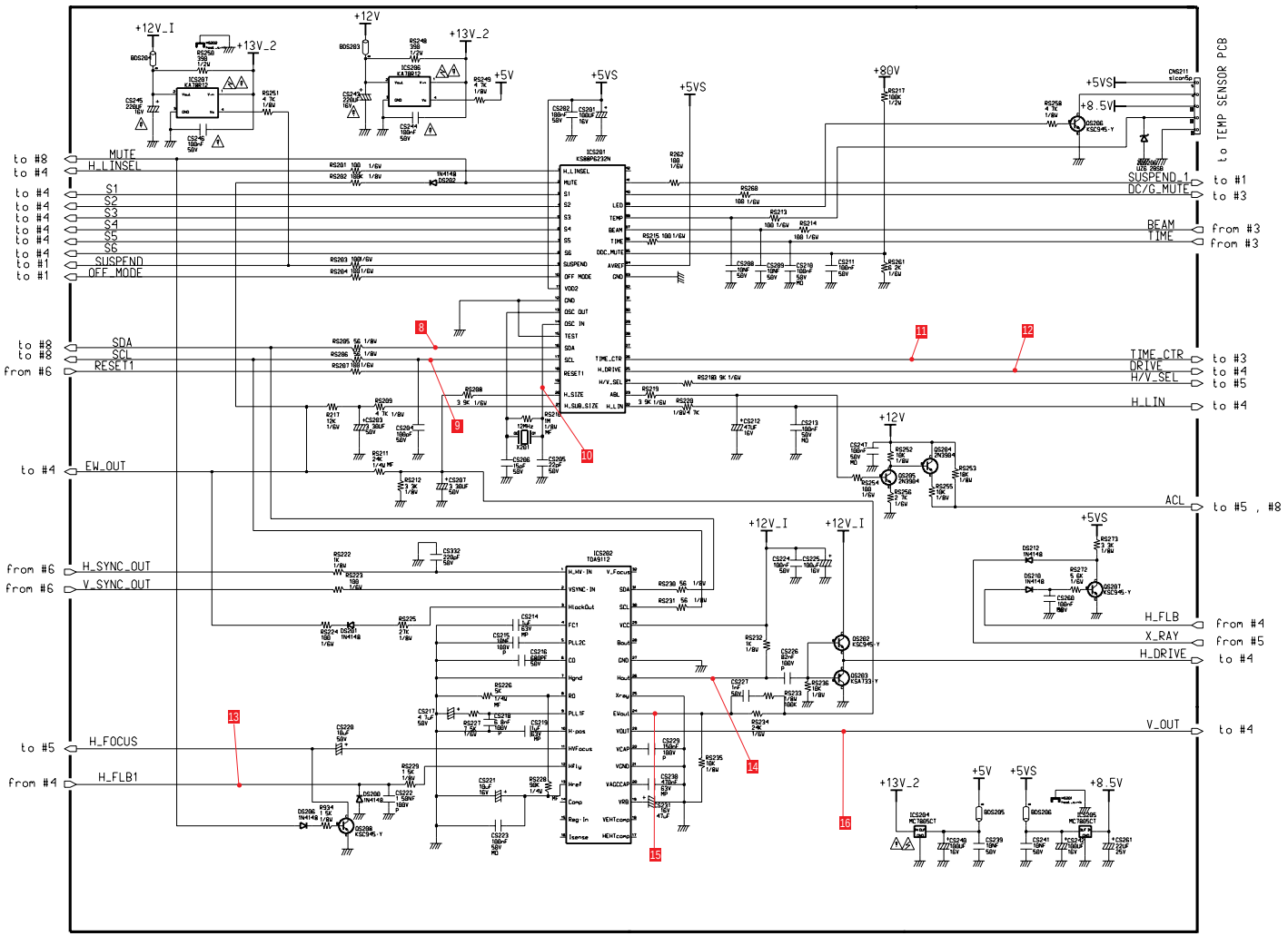


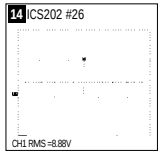


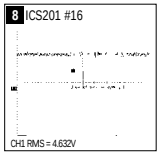


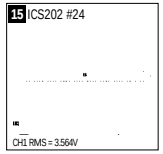


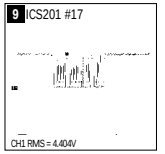
10-2 Micom & Process Part Schematic Diagram

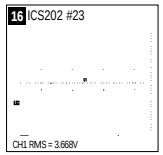


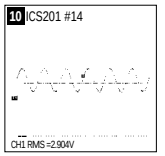


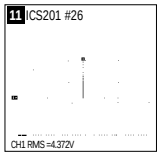


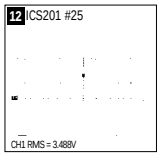


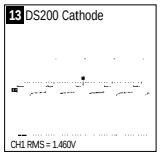




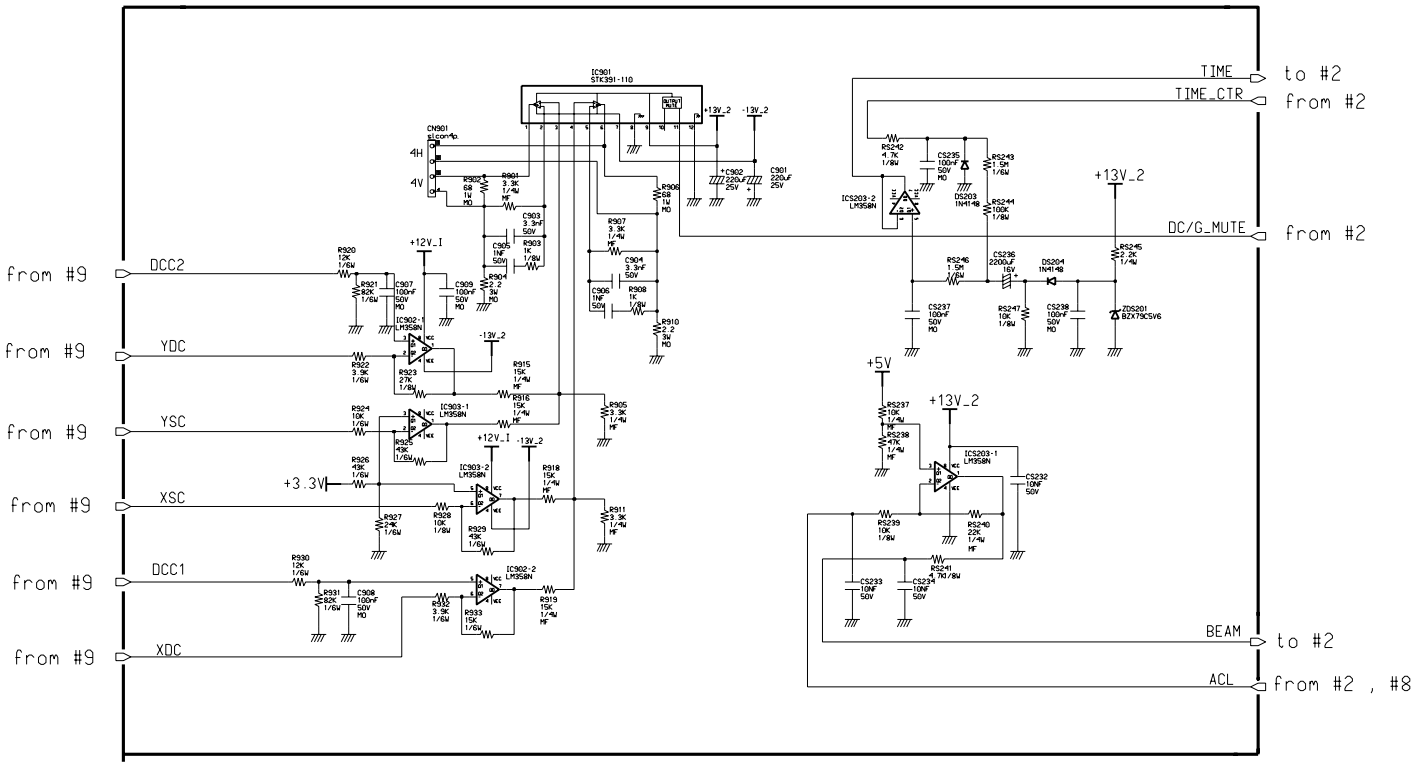




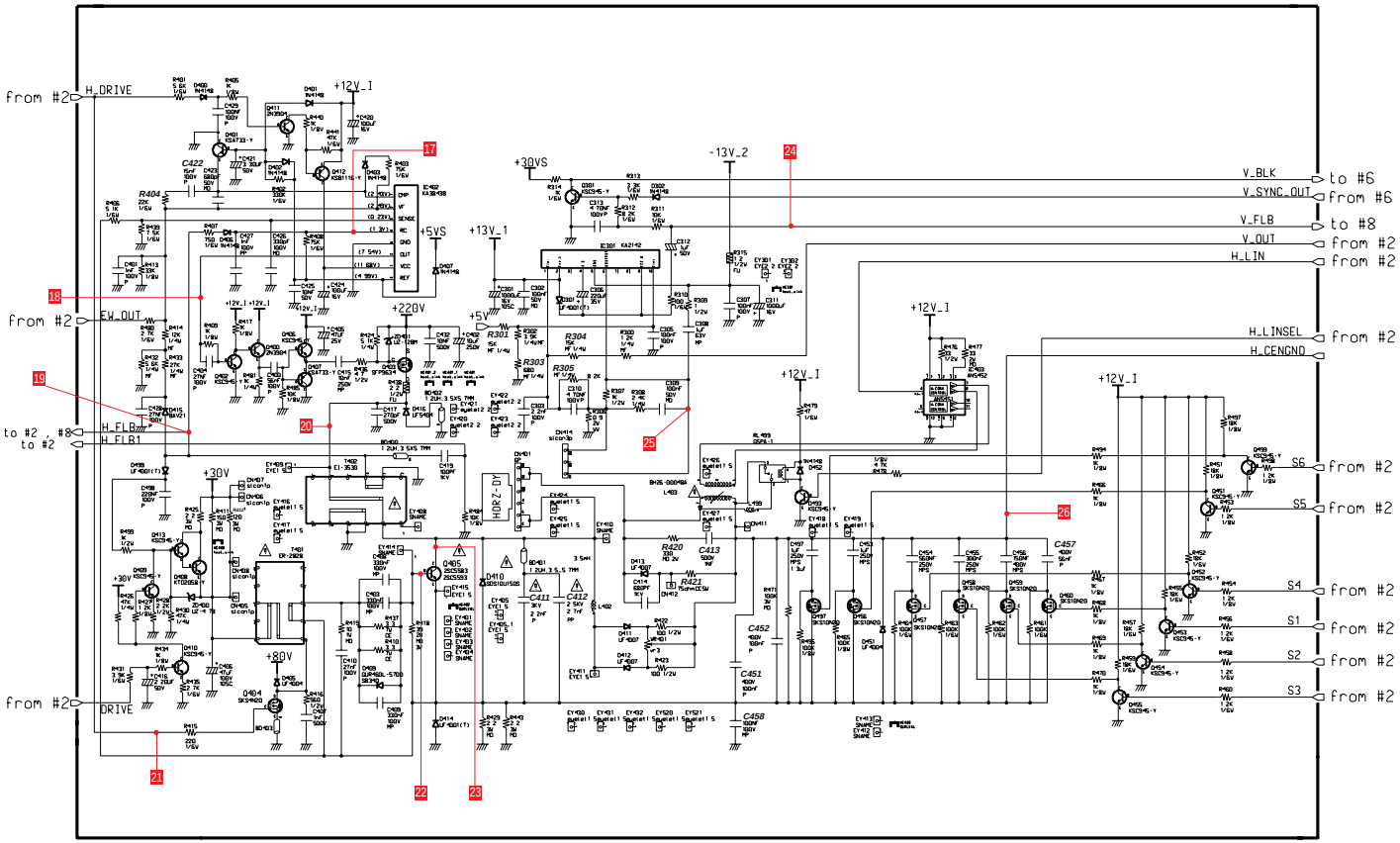


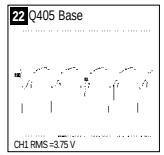


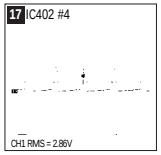
10-3 D/Convergence & Purity Part Schematic Diagram

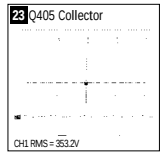


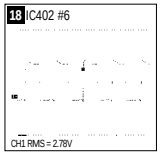
10-4 HORI & VERTICAL Part Schematic Diagram

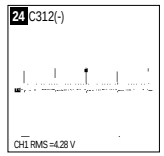


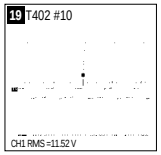


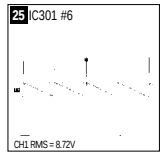


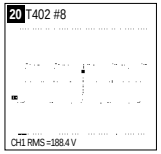


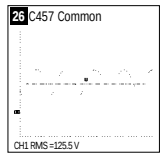


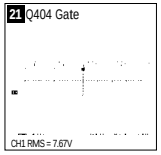










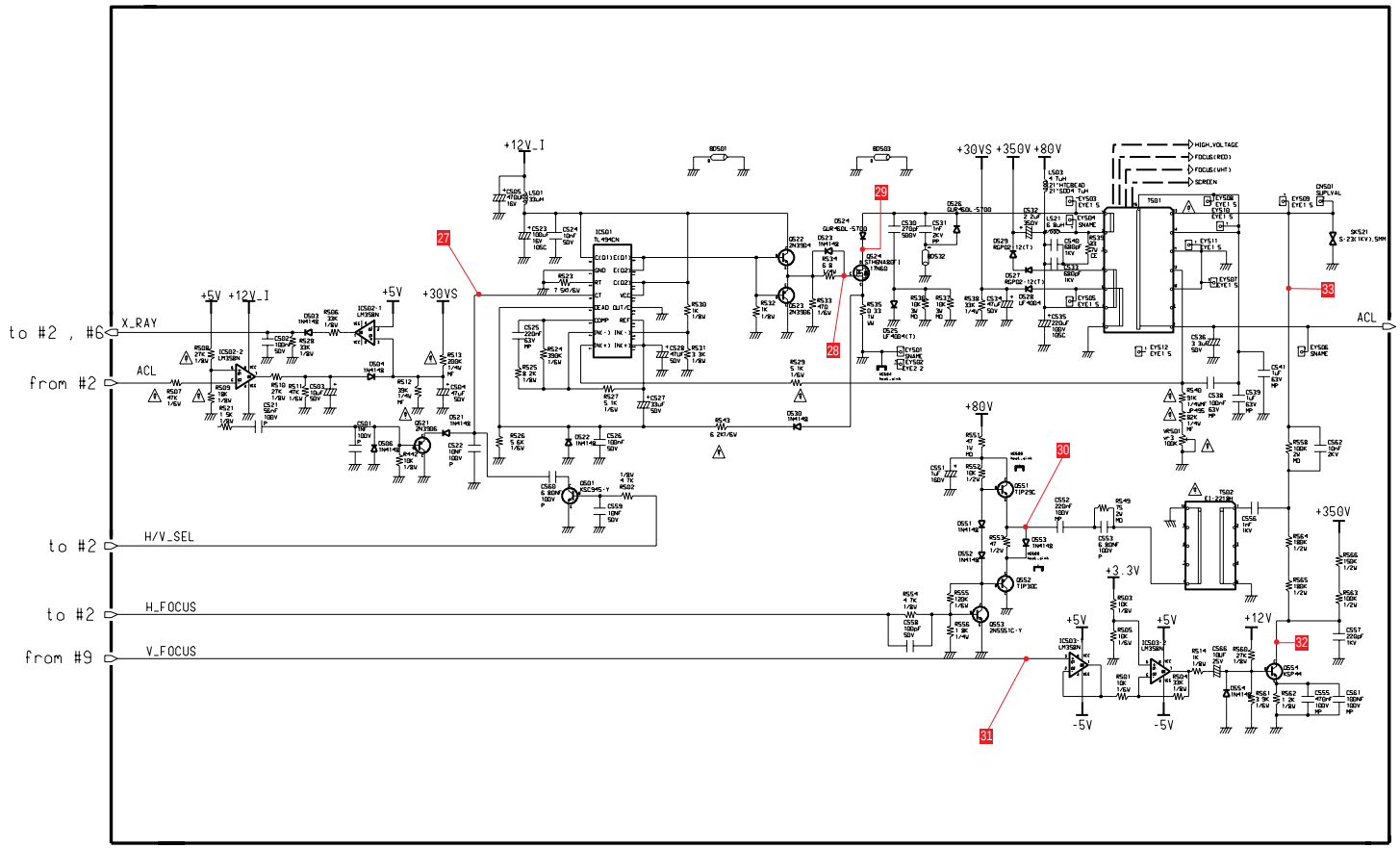


S-CORRECTION

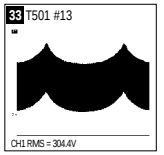
22”

H-FREQUENCY	S1	S2	S3	S4	S5	S6
~ 34.9 kHz	H	H	H	H	H	H
35.0 kHz ~ 36.9 kHz	H	H	H	L	H	H
37.0 kHz ~ 39.9 kHz	L	L	H	L	H	H
40.0 kHz ~ 43.9 kHz	H	L	L	H	H	L
44.0 kHz ~ 50.9 kHz	L	L	H	L	H	L
51.0 kHz ~ 60.9 kHz	L	H	L	H	L	L
61.0 kHz ~ 64.9 kHz	L	L	L	H	L	L
65.0 kHz ~ 67.9 kHz	L	H	H	L	L	L
68.0 kHz ~ 72.9 kHz	L	H	H	L	L	L
73.0 kHz ~ 75.9 kHz	H	L	H	L	L	L
76.0 kHz ~ 77.9 kHz	H	L	H	L	L	L
78.0 kHz ~ 80.9 kHz	L	L	H	L	L	L
81.0 kHz ~ 84.9 kHz	H	H	L	L	L	L
85.0 kHz ~ 91.9 kHz	L	H	L	L	L	L
92.0 kHz ~ 94.9 kHz	L	H	L	L	L	L
95.0 kHz ~ 99.9 kHz	L	H	L	L	L	L
100.0 kHz ~ 104.9 kHz	L	H	L	L	L	L
105.0 kHz ~ 109.9 kHz	H	L	L	L	L	L
110.0 kHz ~ 114.9 kHz	L	L	L	L	L	L
115.0 kHz ~ 119.9 kHz	L	L	L	L	L	L
120.0 kHz ~ 124.9 kHz	L	L	L	L	L	L
125.0 kHz ~ 129.9 kHz	L	L	L	L	L	L

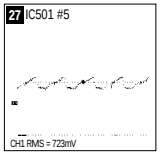
10-5 HIGH VOLTAGE Parts Schematic Diagram



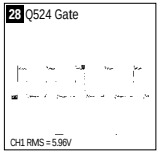
33 T501 #13



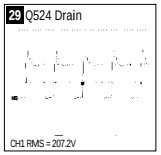
27 IC501 #5



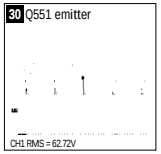
28 Q524 Gate



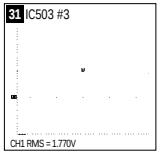
29 Q524 Drain



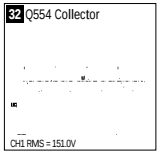
30 Q551 emitter



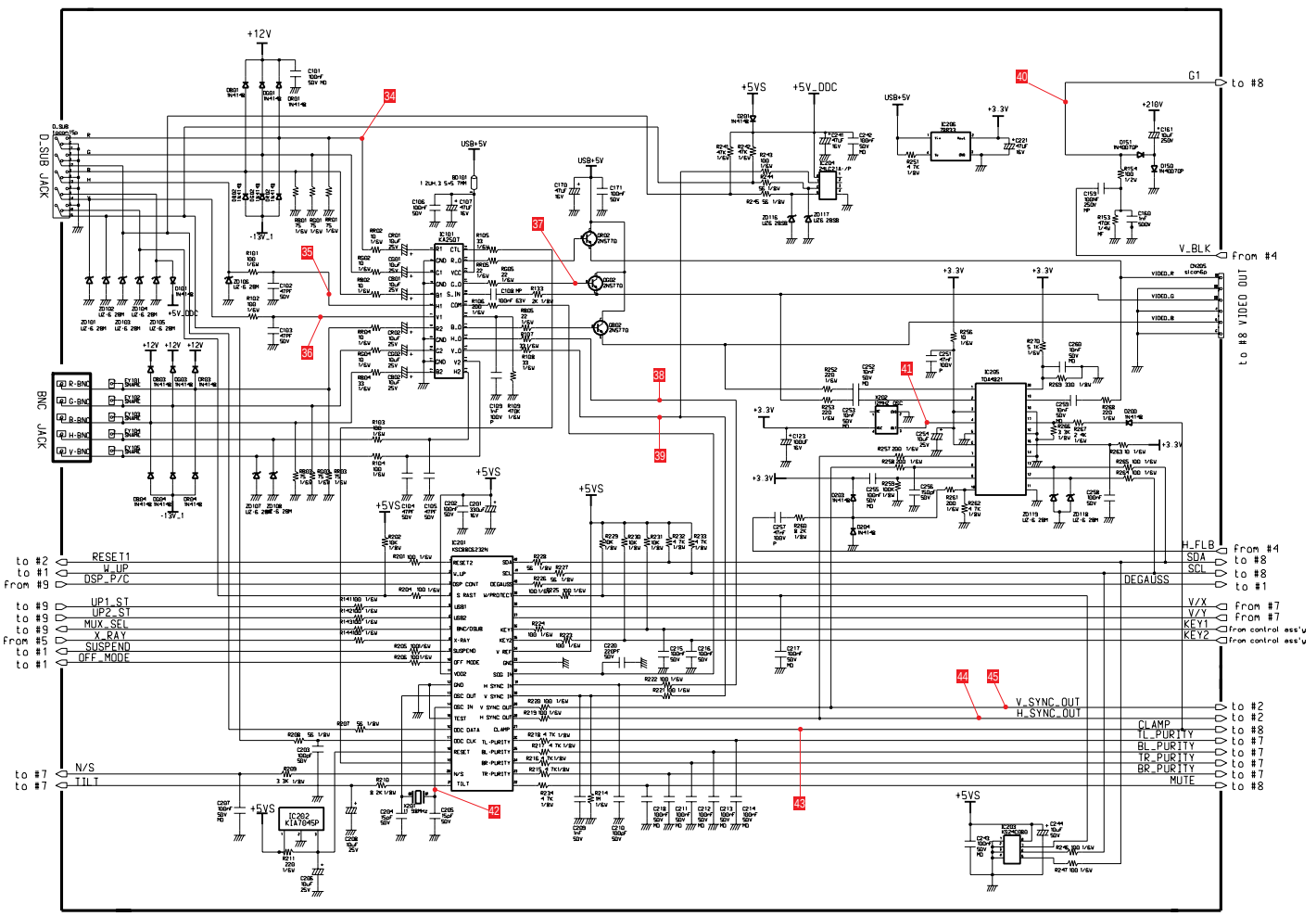
31 IC503 #3

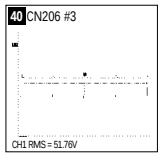


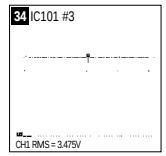
32 Q554 Collector

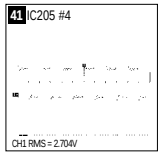


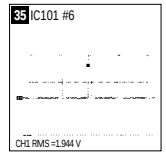
10-6 Video_BNC Parts Schematic Diagram

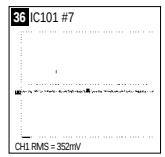


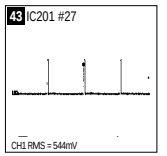


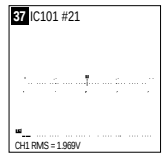


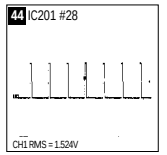


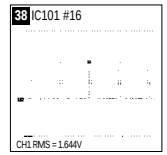












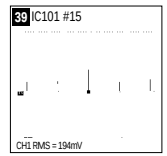


Table 10-1. IC201 (KS88P6348)

pin #	MODES				pin #	MODES			
	31 kHz	68 kHz	91 kHz	106 kHz		31 kHz	68 kHz	91 kHz	106 kHz
1	5.18	5.13	5.14	5.13	22	0	0	0	0
2	0	0	0	0	23	4.1	4.08	4.09	4.06
3	5.18	5.13	5.13	5.11	24	3.07	3.08	3.02	3.04
4	0	0	0	0	25	4.4	4.38	4.37	4.34
5	0	0	0	0	26	2.86	2.89	2.87	2.87
6	0	0	0	0	27	0.77	0.84	0.93	1
7	0	0	0	0	28	1.84	1.47	1.62	1.6
8	0	0	0	0	29	0.77	0.38	0.64	2.54
9	0	0	0	0	30	0.77	0.39	0.36	2.58
10	4.94	4.87	4.87	4.85	31	4.83	1.3	1.49	1.59
11	5.13	5.13	5.14	5.13	32	5.13	5.13	5.13	5.13
12	GND	GND	GND	GND	33	GND	GND	GND	GND
13	3.12	3.14	3.14	3.14	34	5.13	5.14	5.13	5.13
14	2.91	2.93	2.93	2.92	35	5.13	5.11	5.1	5.1
15	GND	GND	GND	GND	36	5.13	5.1	5.1	5.1
16	3.61	3.7	3.62	3.7	37	0.4	0.26	0.25	0.17
17	5.15	5.11	5.11	5.1	38	0.14	0.26	0.25	0.17
18	5.18	5.13	5.14	5.13	39	5.13	5.13	5.13	5.13
19	0	0	0	0	40	0	0	0	0
20	0	0	0	0	41	3.78	4.98	4.97	3.35
21	3.08	3.08	3.06	3.07	42	4.31	5.04	4.33	4.31

Table 10-2. IC205 (TDA4821)

pin #	MODES				pin #	MODES			
	31 kHz	68 kHz	91 kHz	106 kHz		31 kHz	68 kHz	91 kHz	106 kHz
1	1.05	1	1	1	11	GND	GND	GND	GND
2	1.09	1.07	10.3	1.03	12	4.96	4.96	4.96	4.96
3	3.46	3.46	3.46	3.45	13	5.02	5.02	5.02	5.01
4	0	0	0	0	14	GND	GND	GND	GND
5	GND	GND	GND	GND	15	3.46	3.46	3.46	3.46
6	3.46	3.45	3.46	3.45	16	GND	GND	GND	GND
7	1.85	1.41	1.62	1.58	17	0.32	0.32	0.36	0.38
8	0.37	0.34	0.3	0.29	18	GND	GND	GND	GND
9	0	0	0	0	19	1.08	1.16	1.06	1.06
10	0.9	1.31	1.49	1.6	20	0.42	0.42	0.42	0.42

Table 10-3. IC101 (KA2507)

pin #	MODES				pin #	MODES			
	31 kHz	68 kHz	91 kHz	106 kHz		31 kHz	68 kHz	91 kHz	106 kHz
1	3.6	3.63	3.62	3.62	13	0	0	0	0
2	GND	GND	GND	GND	14	0	0	0	0
3	3.61	3.62	3.62	3.62	15	0.41	0.39	0.36	0.34
4	GND	GND	GND	GND	16	4.48	1.25	1.25	1.42
5	4.34	3.62	3.62	3.62	17	2.09	2.1	2.1	2.09
6	0.35	1.25	1.45	1.42	18	3.89	3.72	3.72	3.76
7	0.35	0.32	0.29	0.28	19	4.87	4.96	4.96	5.03
8	0.25	0.26	0.21	0.25	20	3.44	3.41	3.41	3.41
9	GND	GND	GND	GND	21	2.09	2.1	2.09	2.1
10	0	0	0	0	22	5.11	5.11	3.62	5.12
11	GND	GND	GND	GND	23	2.11	2.11	2.11	2.11
12	0	0	0	0	24	0	0	0	0

10-7 Purity Parts Schematic Diagram

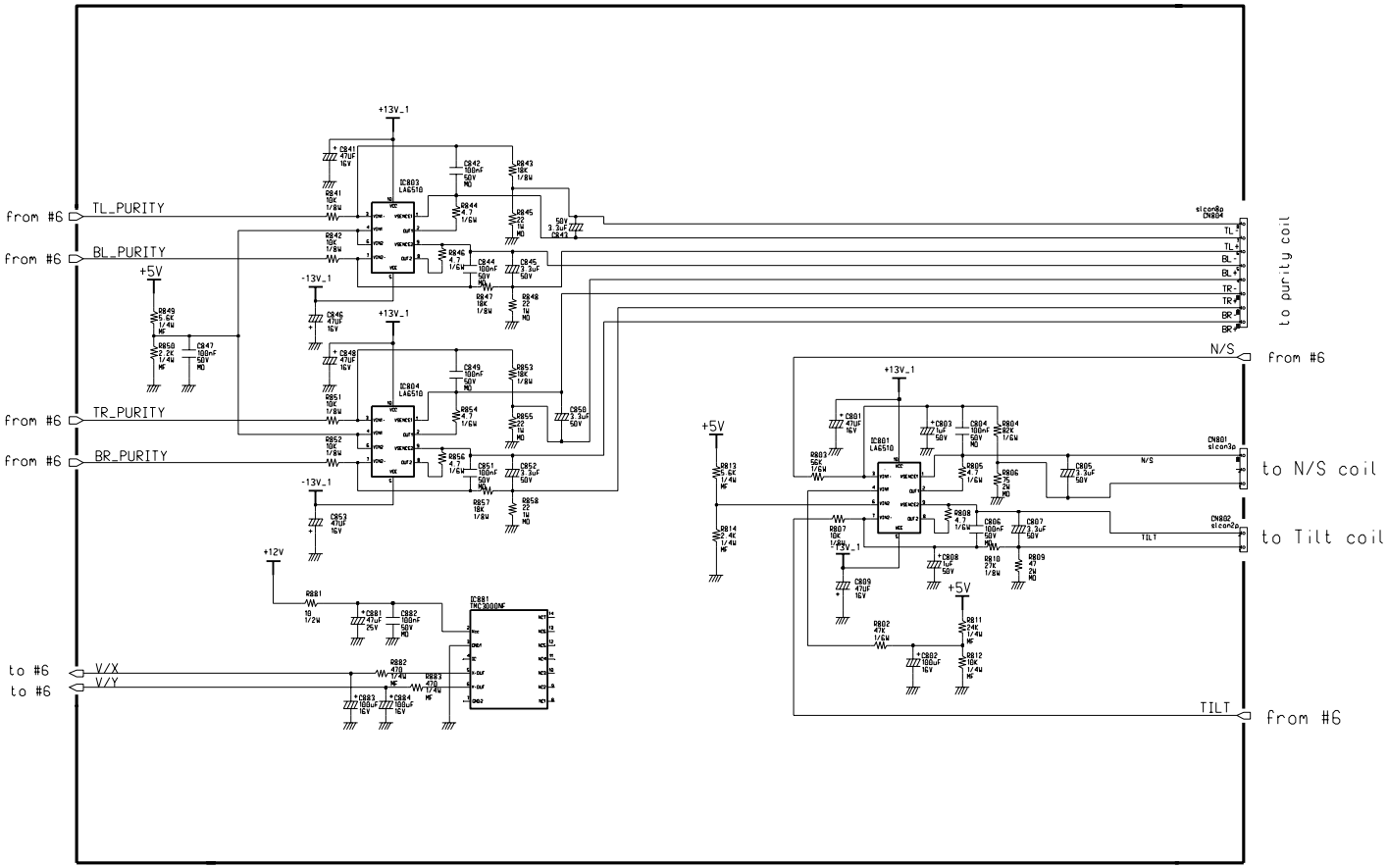


Table 10-4. IC801 (LA6510)

pin #	MODES			
	31 kHz	68 kHz	91 kHz	106 kHz
1	13.92	13.93	13.93	13.92
2	13.92	13.93	13.93	13.92
3	2.39	2.6	2.59	2.58
4	1.41	1.41	1.41	1.41
5	14.59	14.59	14.59	14.59
6	1.2	1.2	1.2	12.2
7	1.25	1.25	1.25	1.25
8	13.96	13.96	13.96	13.93
9	13.96	13.96	13.96	13.96
10	14.52	14.54	14.52	14.52

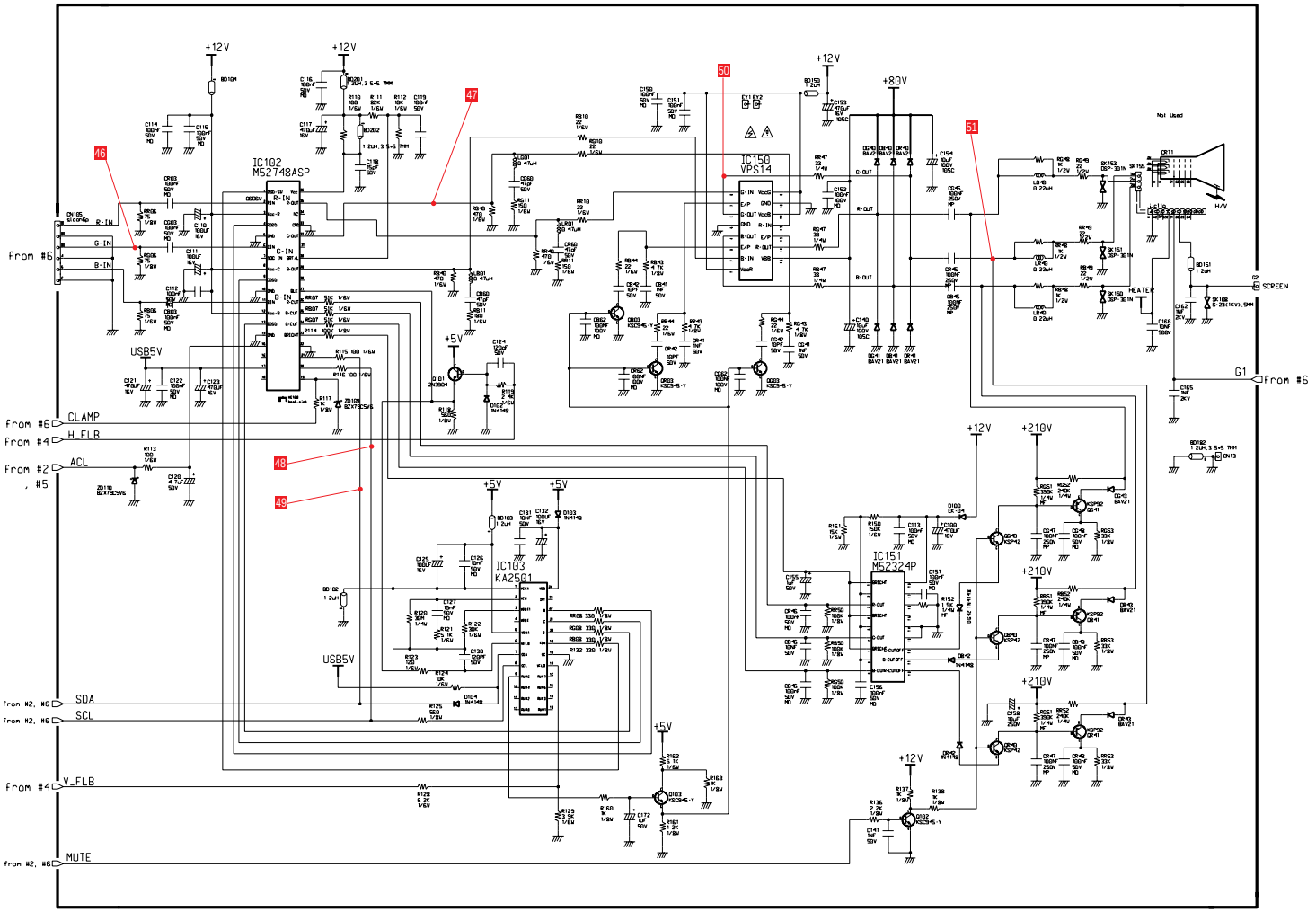
Table 10-5. IC803 (LA6510)

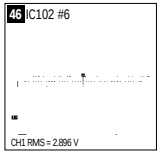
pin #	MODES			
	31 kHz	68 kHz	91 kHz	106 kHz
1	13.99	13.99	13.99	13.99
2	13.99	13.99	13.99	13.99
3	0.81	0.78	0.79	0.79
4	1.2	1.2	1.2	1.2
5	14.59	14.59	14.59	14.59
6	1.2	1.2	1.2	1.2
7	1.52	1.52	1.52	1.52
8	13.92	13.92	13.92	13.92
9	13.92	13.92	13.92	13.92
10	14.52	14.52	14.52	14.52

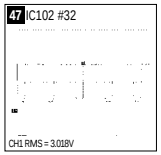
Table 10-6. IC804 (LA6510)

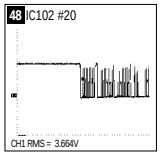
pin #	MODES			
	31 kHz	68 kHz	91 kHz	106 kHz
1	14	14	14	14
2	14	14	14	14
3	0.81	0.87	0.87	0.87
4	1.2	1.2	1.2	1.2
5	14.6	14.6	14.6	14.6
6	1.2	1.2	1.2	1.2
7	1.4	1.4	1.4	1.4
8	13.94	13.94	13.94	13.94
9	13.94	13.94	13.94	13.94
10	14.52	14.52	14.52	14.52

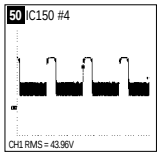
10-8 Video Parts Schematic Diagram











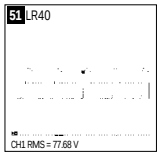


Table 10-7. IC103 (KS2501-19)

pin #	MODES				pin #	MODES			
	31 kHz	68 kHz	91 kHz	106 kHz		31 kHz	68 kHz	91 kHz	106 kHz
1	0	0	0	0	13	4.08	4.23	4.2	4.18
2	2.03	1.91	2.56	2.91	14	NC	NC	NC	NC
3	1.29	1.29	1.3	1.29	15	NC	NC	NC	NC
4	NC	NC	NC	NC	16	NC	NC	NC	NC
5	5.13	5.12	5.12	5.11	17	0.72	0.74	0.73	0.72
6	1.19	1.72	1.95	2.01	18	GND	GND	GND	GND
7	5.01	5.02	5.02	5.02	19	0.19	0.19	0.19	0.19
8	4.96	4.96	4.96	4.96	20	0.19	0.19	0.19	0.19
9	3.69	3.62	3.59	3.58	21	0.19	0.19	0.19	0.19
10	NC	NC	NC	NC	22	0.19	0.19	0.19	0.19
11	NC	NC	NC	NC	23	NC	NC	NC	NC
12	NC	NC	NC	NC	24	4.35	4.3	4.26	4.25

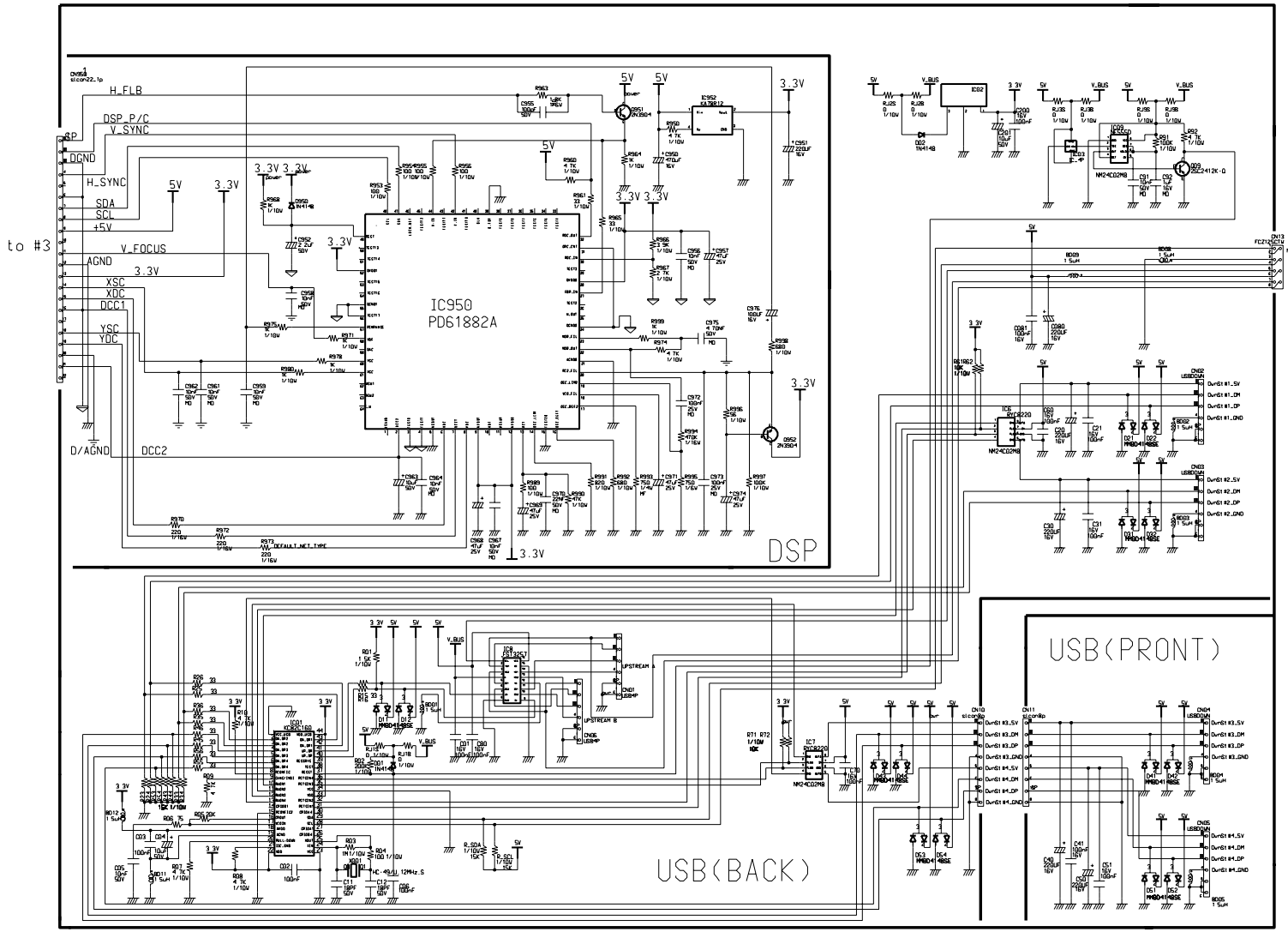
Table 10-8. IC102 (M52742ASP)

pin #	MODES				pin #	MODES			
	31 kHz	68 kHz	91 kHz	106 kHz		31 kHz	68 kHz	91 kHz	106 kHz
1	0.54	0.54	0.54	0.54	19	0.76	0.75	0.86	0.92
2	3.19	3.12	3.12	3.12	20	5.03	5.03	5.03	5.03
3	12.14	12.15	12.14	12.15	21	5.09	5.09	5.09	5.09
4	0.55	0.55	0.55	0.55	22	GND	GND	GND	GND
5	GND	GND	GND	GND	23	2.37	2.37	2.37	2.37
6	3.16	3.12	3.12	3.12	24	2.2	2.25	2.25	2.25
7	NC	NC	NC	NC	25	1.68	1.74	1.74	1.74
8	12.14	12.14	12.14	12.14	26	1.64	1.71	1.71	1.71
9	0.55	0.55	0.55	0.55	27	1.24	1.8	2.05	2.21
10	GND	GND	GND	GND	28	0.24	0.24	0.27	0.25
11	3.19	3.11	3.12	3.12	29	3.3	3.14	3.15	3.12
12	12.14	12.14	12.14	12.14	30	1.16	1.16	1.16	1.16
13	0.55	0.55	0.55	0.55	31	0.26	0.32	0.32	0.29
14	GND	GND	GND	GND	32	3.34	3.16	3.19	3.17
15	4.55	4.97	4.92	4.97	33	GNC	GNC	GNC	GNC
16	NC	NC	NC	NC	34	NC	NC	NC	NC
17	NC	NC	NC	NC	35	3.54	3.37	3.38	3.38
18	NC	NC	NC	NC	36	11.53	11.56	11.56	11.57

Table 10-9. IC150 (VPS17B)

pin #	MODES			
	31 kHz	68 kHz	91 kHz	106 kHz
1	12.14	12.14	12.14	12.14
2	3.36	3.2	3.22	3.2
3	3.5	3.23	3.23	3.22
4	46.36	48.48	48.32	48.44
5	0	0	0	0
6	46.88	49.04	48.88	49.12
7	3.26	3.08	3.09	3.07
8	3.23	3.06	3.08	3.07
9	13.06	13.06	13.06	13.06
10	0	0	0	0
11	12.18	12.18	12.18	12.18
12	3.66	3.46	3.48	3.47
13	3.64	3.46	3.49	3.49
14	45.8	48.1	48	48.2
15	81.2	81.2	81.2	81.1

10-9 DSP& USB Part Schematic Diagram



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