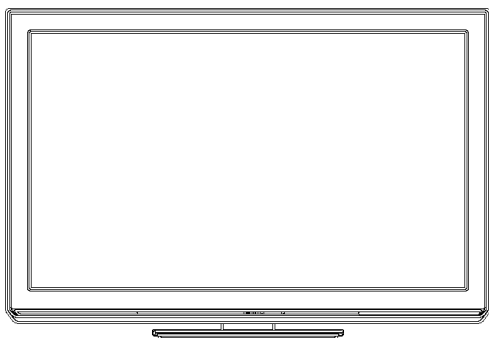


Service Manual

Plasma Television



Model No. **TH-P50X30D**
TH-P50X30G
TH-P50X30K
TH-P50X30M
TH-P50X30P
TH-P50X30S
TH-P50X30V

GPF14D-A Chassis

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

1.1. General Guidelines

1. When conducting repairs and servicing, do not attempt to modify the equipment, its parts or its materials.
2. When wiring units (with cables, flexible cables or lead wires) are supplied as repair parts and only one wire or some of the wires have been broken or disconnected, do not attempt to repair or re-wire the units. Replace the entire wiring unit instead.
3. When conducting repairs and servicing, do not twist the Fasten connectors but plug them straight in or unplug them straight out.
4. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
5. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
6. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Touch-Current Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reserve the AC plug in the AC outlet and repeat each of the above measure.
6. The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 , does not exceed the following values:

For a. c.: $U_1 = 35 \text{ V}$ (peak) and $U_2 = 0.35 \text{ V}$ (peak);

For d. c.: $U_1 = 1.0 \text{ V}$,

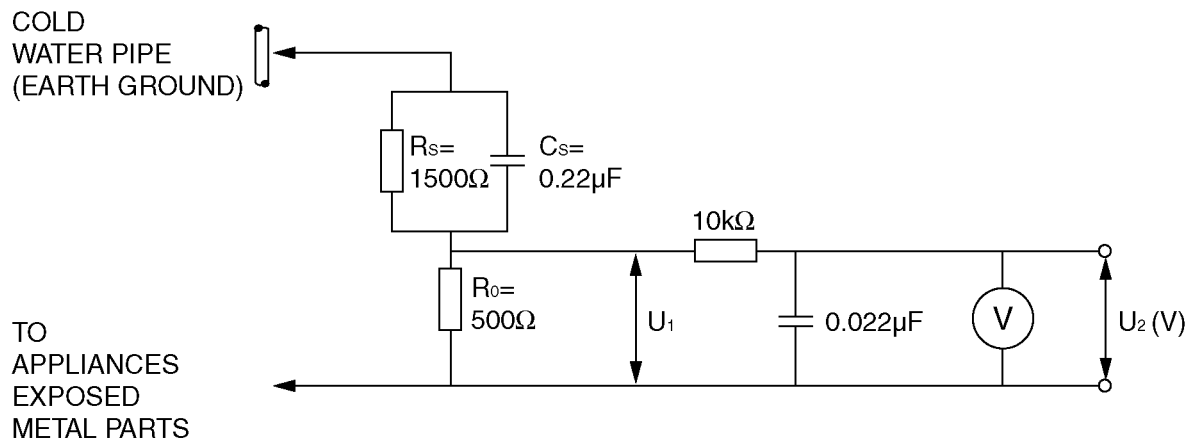
Note:

The limit value of $U_2 = 0.35 \text{ V}$ (peak) for a. c. and $U_1 = 1.0 \text{ V}$ for d. c. correspond to the values 0.7 mA (peak) a. c. and 2.0 mA d. c.

The limit value $U_1 = 35 \text{ V}$ (peak) for a. c. correspond to the value 70 mA (peak) a. c. for frequencies greater than 100 kHz .

7. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

Measuring network for TOUCH CURRENTS



Resistance values in ohms (Ω)

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance: $\geq 1 \text{ M}\Omega$

Input capacitance: $\leq 200 \text{ pF}$

Frequency range: 15 Hz to 1 MHz and d.c. respectively

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

Figure 1

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices

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

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as [anti-static (ESD protected)] can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, 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 bodily motions when handling unpackaged replacement ES devices. (Otherwise ham less motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

2.2. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

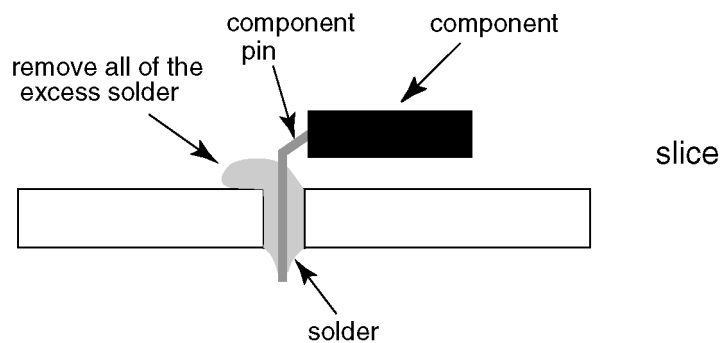
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol **PbF** stamped on the back of PCB.

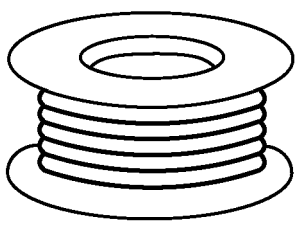
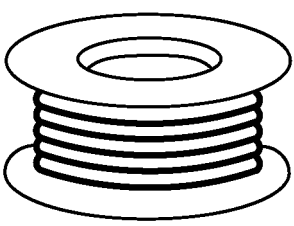
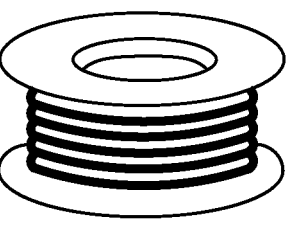
Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

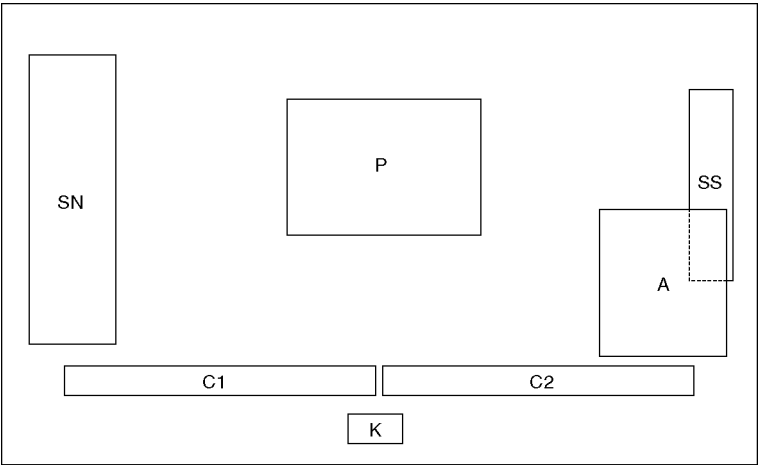
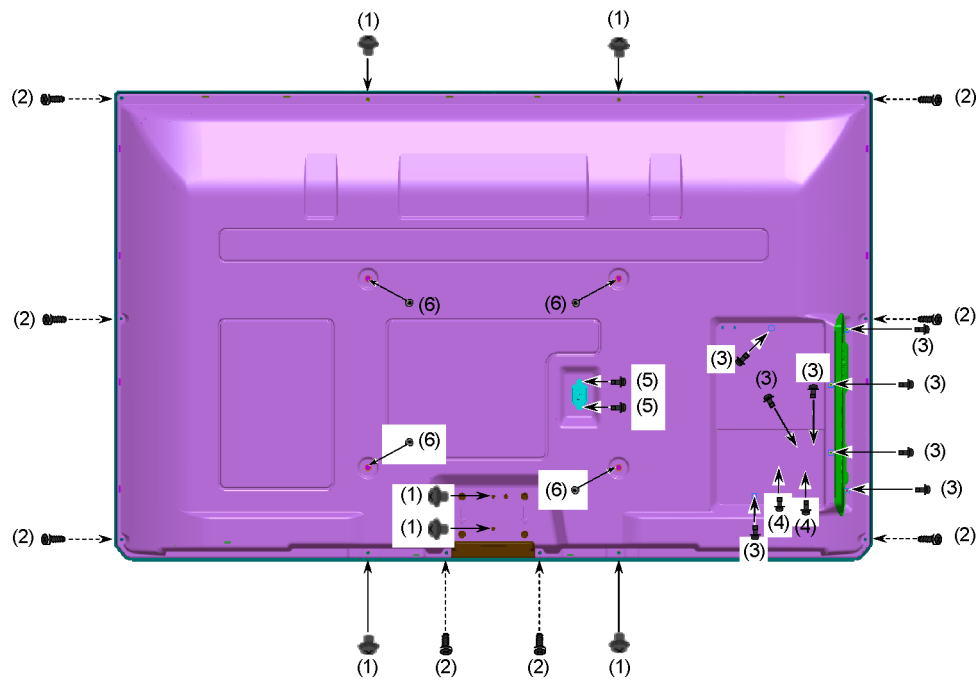
There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

3 Service Navigation

3.1. PCB Layout

Remove the Rear cover



Board Name	Function	Board Name	Function
P	Power Supply	C1	Data Driver (Lower Right)
	Non serviceable.	C2	Data Driver (Lower Left)
	P-Board should be exchanged for service.	SN	Scan Drive
A	Main AV input, processing	SS	Sustain Drive
K	Remote receiver, Power LED, C.A.T.S sensor		

3.2. Applicable signals

COMPONENT (Y, P_B/C_B, P_R/C_R), HDMI

* Mark: Applicable input signal

Signal name	COMPONENT	HDMI
525 (480) / 60i	*	*
525 (480) / 60p	*	*
625 (576) / 50i	*	*
625 (576) / 50p	*	*
750 (720) / 60p	*	*
750 (720) / 50p	*	*
1,125 (1,080) / 60i	*	*
1,125 (1,080) / 50i	*	*
1,125 (1,080) / 60p		*
1,125 (1,080) / 50p		*
1,125 (1,080) / 24p		*

PC (from D-sub 15P)

Applicable input signal for PC is basically compatible to VESA standard timing.

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 400 @70 Hz	31.47	70.07
640 × 480 @60 Hz	31.47	59.94
640 × 480 @75 Hz	37.50	75.00
800 × 600 @60 Hz	37.88	60.32
800 × 600 @75 Hz	46.88	75.00
800 × 600 @85 Hz	53.67	85.06
852 × 480 @60 Hz	31.44	59.89
1,024 × 768 @60 Hz	48.36	60.00
1,024 × 768 @70 Hz	56.48	70.07
1,024 × 768 @75 Hz	60.02	75.03
1,024 × 768 @85 Hz	68.68	85.00
1,280 × 1,024 @60 Hz	63.98	60.02
1,280 × 768 @60 Hz	47.70	60.00
1,366 × 768 @60 Hz	48.39	60.04
Macintosh13" (640 × 480)	35.00	66.67
Macintosh16" (832 × 624)	49.73	74.55
Macintosh21" (1,152 × 870)	68.68	75.06

PC (from HDMI terminal)

Applicable input signal for PC is basically compatible to HDMI standard timing.

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 480 @60 Hz	31.47	60.00
750 (720) / 60p	45.00	60.00
1,125 (1,080) / 60p	67.50	60.00

Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.

4 Specifications

Power Source	AC 220 - 240 V, 50 / 60 Hz (Except P) AC 110 - 240 V, 50 / 60 Hz (P)
Power	
Power Rating	250 W (Except P) 255 W (P)
Standby condition	0.4 W
Display panel	
Aspect Ratio	16:9
Visible screen size	127 cm (diagonal) 1,105 mm (W) × 622 mm (H)
Number of pixels	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]
Sound	
Speaker	160 mm × 40 mm × 2 pcs, 6 Ω
Audio Output	20 W (10 W + 10 W)
Headphones	M3 (3.5 mm) stereo mini Jack × 1
PC signals	VGA, SVGA, WVGA, XGA SXGA, WXGA (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz

Receiving Systems / Band name

17 Systems		Function	17 Systems		Function
1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders	8	NTSC 4.43/5.5 MHz	Playback from Special VCR's or DVD
2	PAL I		9	NTSC 4.43/6.0 MHz	
3	PAL D, K		10	NTSC 4.43/6.5 MHz	
4	SECAM B, G		11	NTSC 3.58/5.5 MHz	
5	SECAM D, K		12	NTSC 3.58/6.0 MHz	
6	SECAM K1		13	NTSC 3.58/6.5 MHz	
7	NTSC M (NTSC 3.58/4.5 MHz)		14	SECAM I	
Digital TV (G/S only) : 7 MHz VHF / 8 MHz UHF free-to-air TV broadcast reception			15	PAL 60 Hz/5.5 MHz	Playback from Special Disc Players and Special VCR's or DVD
			16	PAL 60 Hz/6.0 MHz	
			17	PAL 60 Hz/6.5 MHz	

Receiving Channels (Analogue TV)

VHF BAND

2-12 (PAL/SECAM B, K1)	0-12 (PAL B AUST.)
1-9 (PAL B N.Z.)	1-12 (PAL/SECAM D)
1-12 (NTSC M Japan)	2-13 (NTSC M USA)

UHF BAND

21-69 (PAL G, H, I/SECAM G, K, K1)	
28-69 (PAL B AUST.)	13-57 (PAL D, K)
13-62 (NTSC M Japan)	14-69 (NTSC M USA)

CATV

S1-S20 (OSCAR)	1-125 (USA CATV)
C13-C49 (JAPAN)	S21-S41 (HYPER)
Z1-Z37 (CHINA)	5A, 9A (AUST.)

Aerial - Rear

Operating Conditions

Temperature:	0 °C - 40 °C
Humidity:	20 % - 80 % RH (non-condensing)

Connection Terminals

AV1 Input

Audio L - R	RCA PIN Type × 2	0.5 V [rms]
VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
COMPONENT	Y	1.0 V [p-p] (including synchronisation)
	P _B /C _B , P _R /C _R	± 0.35 V [p-p]

AV2 Input

Audio L - R	RCA PIN Type × 2	0.5 V [rms]
VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)

AV3 Input

Audio L - R	RCA PIN Type × 2	0.5 V [rms]
VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)

Audio Output

Audio L - R	RCA PIN Type × 2	0.5 V [rms] (high impedance)
--------------------	------------------	------------------------------

Others

HDMI1 - 3 Input	TYPE A Connectors	• This TV supports "HDAVI control 5" function.
PC Input	HIGH-DENSITY D-SUB 15PIN	R / G / B: 0.7 V [p-p] (75 Ω) HD / VD: TTL Level 2.0 - 5.0 V [p-p] (high impedance)
DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber optic	
Card slot	SD Card slot × 1	

**USB 1/2
ETHERNET**

USB 2.0 TYPE A Connectors DC 5 V, Max. 500 mA
10BASE-T / 100BASE-TX

Dimensions (W × H × D)

1,212 mm × 782 mm × 324 mm (With Pedestal)
1,212 mm × 747 mm × 93 mm (TV only)

Mass

34.0 kg Net (With Pedestal)
30.5 kg Net (TV only)

Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

5 Technical Descriptions

5.1. Specification of KEY for CI Plus, DTCP-IP and One-to-One

5.1.1. General information:

1. EEPROM (IC8902) for spare parts has the seed of KEY for each.
2. The final KEY data will be generated by Peaks IC (IC8000) when SELF CHECK was done and are stored in both Peaks IC (IC8000) and EEPROM (IC8902).

Three KEY are not generated for all models.

The necessary KEY are only generated and stored depend on the feature of models.

5.1.2. Replacement of ICs:

When Peaks IC (IC8000) is replaced, EEPROM (IC8902) should be also replaced with new one the same time.

When EEPROM (IC8902) is replaced, Peaks IC (IC8000) is not necessary to be replaced the same time.

After the replacement of IC, SELF CHECK should be done to generate the final KEY data.

How to SELF CHECK: While pressing [VOLUME (-)] button on the main unit, press [MENU] button on the remote control for more than 3 seconds.

TV will be forced to the factory shipment setting after this SELF CHECK.

5.1.3. Model and Keys:

Model No.	Keys		
	MAC	One-to-One	WIDEVINE
TH-P50X30D/G/K/M/P/S/V	○	-	-

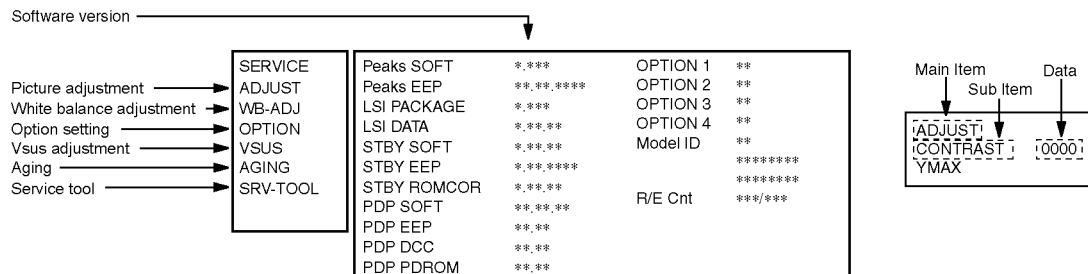
6 Service Mode

6.1. How to enter into Service Mode

6.1.1. Purpose

After exchange parts, check and adjust the contents of adjustment mode.

While pressing [VOLUME (-)] button of the main unit, press [i] button of the remote control three times within 2 seconds.



6.1.2. Key command

- [1] button...Main items Selection in forward direction
- [2] button...Main items Selection in reverse direction
- [3] button...Sub items Selection in forward direction
- [4] button...Sub items Selection in reverse direction
- [RED] button...All Sub items Selection in reverse direction
- [GREEN] button...All Sub items Selection in forward direction
- [VOL] button...Value of sub items change in forward direction (+), in reverse direction (-)

6.1.3. How to exit

Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.

6.1.4. Contents of adjustment mode

- Value is shown as a hexadecimal number.
- Preset value differs depending on models.
- After entering the adjustment mode, take note of the value in each item before starting adjustment.

Main item	Sub item	Sample Data	Remark
ADJUST	CONTRAST	2B7	
	COLOR	36	
	TINT	00	
	SUB-BRT	800	
	H-POS	0	
	H-AMP	0	
	V-POS	0	
	V-AMP	0	
WB-ADJ	R-CUT	80	
	G-CUT	80	
	B-CUT	80	
	R-DRV	FF	
	G-DRV	E7	
	B-DRV	A2	
	ALL-CUT	80	
	ALL-DRV	FF	
OPTION	Panel-Type	50HD	Factory Preset
	Boot	ROM	
	STBY-SET	00	
	EMERGENCY	ON	
	Y/C Delay		
	OPT 1	10010000	
	OPT 2	11100010	
	OPT 3	00000011	
	OPT 4	00000000	
	EDID-CLK	MID	
	MIRROR	00 (See Option-Mirror)	
	AMR-SELECT	OFF	
VSUS		LOW	See Vsus selection
AGING	ALL WHITE		Built-in test patterns can be displayed.
	ALL BLUE WITH WHITE OUTSIDE FRAME		
	ALL GREEN		
	ALL RED		
	LOW STEP WHITE		
	LOW STEP BLUE		
	LOW STEP GREEN		
	LOW STEP RED		
	WHITE DIAGONAL STRIPE		
	RED DIAGONAL STRIPE		
	GREEN DIAGONAL STRIPE		
	BLUE DIAGONAL STRIPE		
	A-ZONE & B-ZONE		
	1% WINDOW		
	COLOR BAR		
	9 POINTS BRIGHT MEASURE		
	2 DOT OUTSIDE FRAME		
	ALL BLUE		
	DOUBLE FIXED 1% WINDOW		
	VERTICAL LINE SCROLL		
	ON/OFF OR WHITE		
	R/G/B/W ROTATION		
	HALF FIXED ALL WHITE		
	ALL WHITE WITH COUNT DISPLAY		
SRV-TOOL		00	See Service tool mode

6.2. Option - Mirror

Picture can be reversed left and right or up and down.

00 : Default (Normal picture is displayed)

01 : Picture is reversed left and right.

02 : Picture is reversed up and down.

00



01



02



Hint : If the defective symptom (e.g. Vertical bar or Horizontal bar) is moved by selection of this mirror, the possible cause is in A-board.

6.3. Service tool mode

6.3.1. How to access

1. Select [SRV-TOOL] in Service Mode.
2. Press [OK] button on the remote control.

	SRV-TOOL	
Display of TD2Microcode version →	TD2Microcode:00750004	
Display of Flash ROM maker code →	Flash ROM : AD - F1	
Display of SOS History →	PTCT : 00 . 00 . 00 . 00 . 00 .	Time 00000:40 Count 0000022

POWER ON TIME/COUNT
Press [MUTE] button (3 sec)

6.3.2. Display of SOS History

SOS History (Number of LED blinking) indication.

From left side; Last SOS, before Last, three occurrence before, 2nd occurrence after shipment, 1st occurrence after shipment.
This indication will be cleared by [Self-check indication and forced to factory shipment setting].

6.3.3. POWER ON Time, COUNT

Note : To display TIME/COUNT menu, highlight position, then press MUTE for 3 sec.

Time : Cumulative power on time, indicated hour : minute by decimal

Count : Number of On/Off switching by decimal

Note : This indication will not be cleared by either of the self-checks or any other command.

6.3.4. Exit

1. Disconnect the AC cord from wall outlet or switch off the power with [Power] button on the main unit.

6.4. Hotel mode

1. Purpose

Restrict a function for hotels.

2. Access command to the Hotel mode setup menu

In order to display the Hotel mode setup menu:

While pressing [VOLUME (-)] button of the main unit, press [AV] button of the remote control three times within 2 seconds.

Then, the Hotel mode setup menu is displayed.

Hotel Mode	
Hotel Mode	Off
Initial INPUT	Off
Initial POS	Off
Initial VOL Level	Off
Maximum VOL Level	100
Button Lock	Off
Remote Lock	Off
Private Information	Keep

Select


 EXIT
 Change
 RETURN

3. To exit the Hotel mode setup menu

Disconnect AC power cord from wall outlet.

4. Explain the Hotel mode setup menu

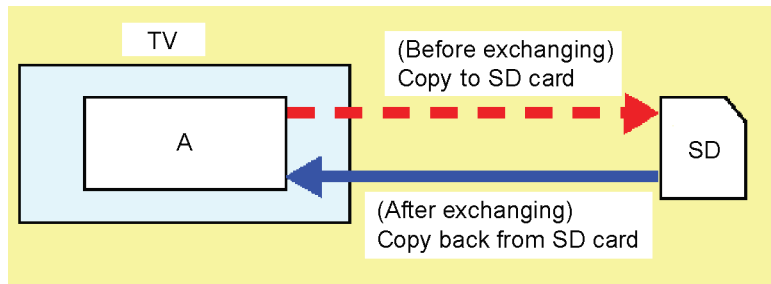
Item	Function
Hotel Mode	Select hotel mode On/Off
Initial INPUT	Select input signal modes. Set the input, when each time power is switched on. Selection : Off/Analogue TV/Digital TV/AV1/AV2/AV3/PC/HDMI1/HDMI2/HDMI3 • Off: give priority to a last memory.
Initial POS	Select programme number. Selection : Off/0 to 99 • Off: give priority to a last memory
Initial VOL Level	Adjust the volume when each time power is switched on. Selection/Range : Off/0 to 100 • Off: give priority to a last memory
Maximum VOL Level	Adjust maximum volume. Range : 0 to 100
Button Lock	Select local key conditions. Selection : Off/SETUP/MENU/ALL • Off: altogether valid • SETUP: only F-key is invalid (Tuning guide (menu) can not be selected.) • MENU: only F-key is invalid (only Volume/Mute can be selected.) • ALL: altogether invalid.
Remote Lock	Select remote control key conditions. Selection : Off/SETUP/MENU • Off: altogether valid • SETUP: only Setup menu is invalid • MENU: Picture/Sound/Setup menu are invalid
Private Information	Select private information for VIERA Cast is Keep or Reset if Hotel mode is set to [On] when TV power on. Selection : Keep/Reset • Keep: private information for VIERA Cast is keep • Reset: private information for VIERA Cast is reset

6.5. Data Copy by SD Card

6.5.1. Purpose

(a) Board replacement (Copy the data when exchanging A-board):

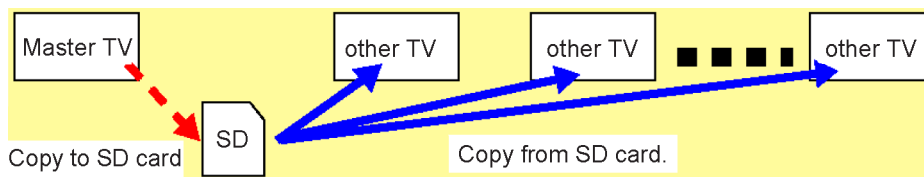
When exchanging A-board, the data in original A-board can be copied to SD card and then copy to new A-board.



Following data can be copied.
User setting data
(incl. Hotel mode setting data)
Channel scan data
Adjustment and factory preset data

(b) Hotel (Copy the data when installing a number of units in hotel or any facility):

When installing a number of units in hotel or any facility, the data in master TV can be copied to SD card and then copy to other TVs.



Following data can be copied.
User setting data
(incl. Hotel mode setting data)
Channel scan data

6.5.2. Preparation

Make pwd file as startup file for (a) or (b) in a empty SD card.

1. Insert a empty SD card to your PC.
2. Right-click a blank area in a SD card window, point to New, and then click text document. A new file is created by default (New Text Document.txt).
3. Right-click the new text document that you just created and select rename, and then change the name and extension of the file to the following file name for (a) or (b) and press ENTER.

File name:

- (a) For Board replacement : boardreplace.pwd
- (b) For Hotel : hotel.pwd

Note:

Please make only one file to prevent the operation error.

No any other file should not be in SD card.

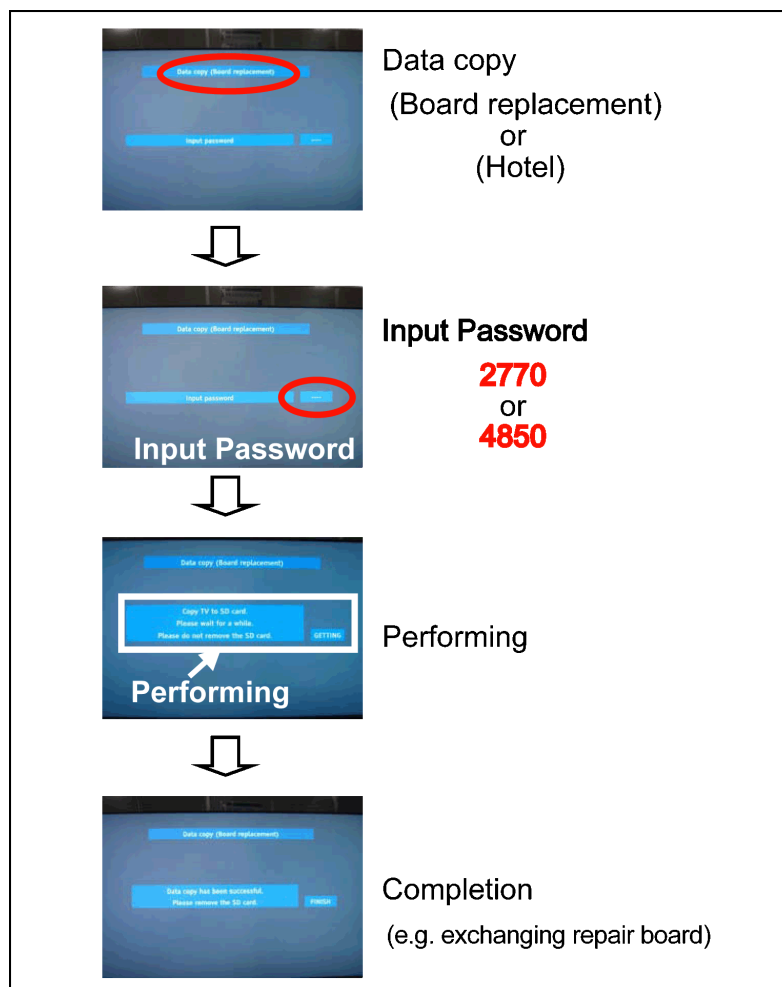
6.5.3. Data copy from TV set to SD Card

1. Turn on the TV set.
2. Insert SD card with a startup file (pwd file) to SD slot.
On-screen Display will be appeared according to the startup file automatically.
3. Input a following password for (a) or (b) by using remote control.
(a) For Board replacement : 2770
(b) For Hotel : 4850
Data will be copied from TV set to SD card.
It takes around 2 to 6 minutes maximum for copying.
4. After the completion of copying to SD card, remove SD card from TV set.
5. Turn off the TV set.

Note:

Following new folder will be created in SD card for data from TV set.

- (a) For Board replacement : user_setup
- (b) For Hotel : hotel

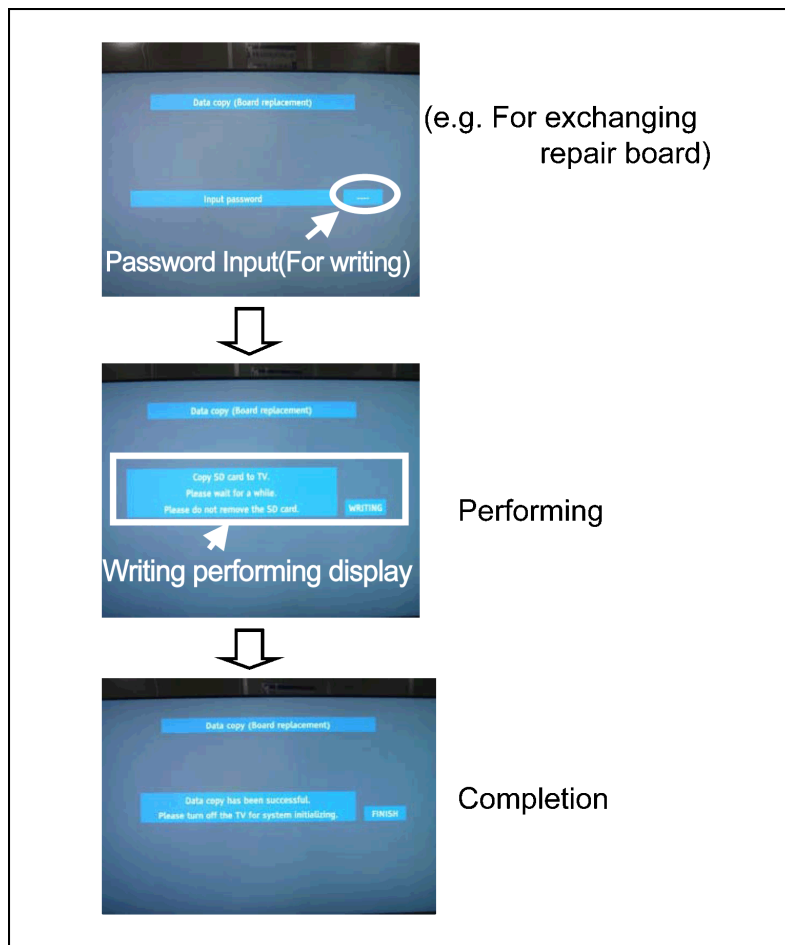


6.5.4. Data copy from SD Card to TV set

1. Turn on the TV set.
2. Insert SD card with Data to SD slot.
On-screen Display will be appeared according to the Data folder automatically.
3. Input a following password for (a) or (b) by using remote control.
(a) For Board replacement : 2771
(b) For Hotel : 4851
Data will be copied from SD card to TV set.
4. After the completion of copying to SD card, remove SD card from TV set.
(a) For Board replacement : Data will be deleted after copying (Limited one copy).
(b) For Hotel : Data will not be deleted and can be used for other TVs.
5. Turn off the TV set.

Note:

1. Depending on the failure of boards, function of Data copy for board replacement does not work.
2. This function can be effective among the same model numbers.



7 Troubleshooting Guide

Use the self-check function to test the unit.

1. Checking the IIC bus lines
2. Power LED Blinking timing

7.1. Check of the IIC bus lines

7.1.1. How to access

7.1.1.1. Self-check indication only:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [OK] button on the remote control for more than 3 seconds.

7.1.1.2. Self-check indication and forced to factory shipment setting:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [MENU] button on the remote control for more than 3 seconds.

7.1.2. Screen display

50HD SET		Panasonic 2011PDP	
		SELF CHECK COMPLETE	
		SYS SELECT : Asia/M.East	
TUN	OK	PEAKS-SOFT	*****
STBY	OK	PEAKS-EEP	*****
MEM1	OK	LSI-PACKAGE	*****
MEM2	OK	LSI-RELEASE	*****
AVSW	OK	STBY-SOFT	*****
PD5	OK	STBY-EEP	*****
TEMP	OK	STBY-ROMCORR	*****
LAN	OK	PDP-MCU	*****
		PDP-EEP	*****
		PDP-DCC	*****
		PDP-PDROM	*****
		SUM	*****
		MODEL ID	*****

7.1.3. Check Point

Confirm the following parts if NG was displayed.

DISPLAY	Check Ref. No.	Description	Check P.C.B.
TUN	TU4801	TUNER	A-Board
STBY	IC8000	PEAKS-sLD2 (STM)	A-Board
MEM1	IC8902	PEAKS EEPROM	A-Board
MEM2	IC8901	STM EEPROM	A-Board
AVSW	IC3001	AUDIO/VIDEO SW	A-Board
PD5	IC9300	PD5L	A-Board
TEMP	IC3753	TEMP SENSOR	A-Board
LAN	IC8601	ETHERPHY	A-Board

7.1.4. Exit

Disconnect the AC cord from wall outlet or switch off the power with [Power] button on the main unit.

7.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinks of the Power LED on the front panel of the unit.

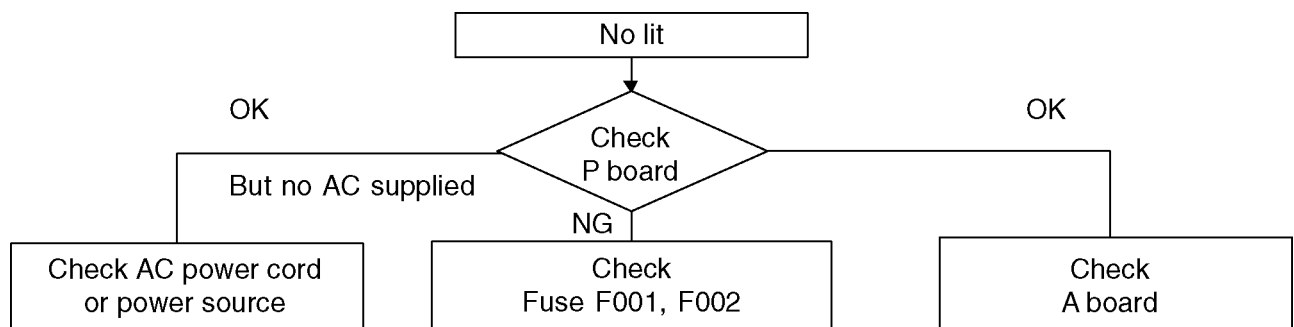
Blinking Times	Contents	Check point
1	Panel information SOS PD5 Start SOS	-
3	P+ 3.3V SOS	A-Board
4	Power SOS	P-Board
5	P+ 5V SOS	A-Board
6	Driver SOS1 (SN/SS Energy recovery circuit) (A-SN FPC DET)	SN-Board SS-Board A-SN FPC
7	Driver SOS2 (SN Connector DET) (SN Scan and Logic IC)	SN-Board
8	Driver SOS3 (SS FPC DET)	SS-Board SS FPC
9	Discharge Control SOS	A-Board
10	Sub 5V SOS Sub 3.3V SOS BE (sLD) SOS Tuner power SOS	A-Board SN-Board SS-Board P-Board
12	Sound SOS	A-Board Speaker
13	Emergency SOS	A-Board

7.3. No Power

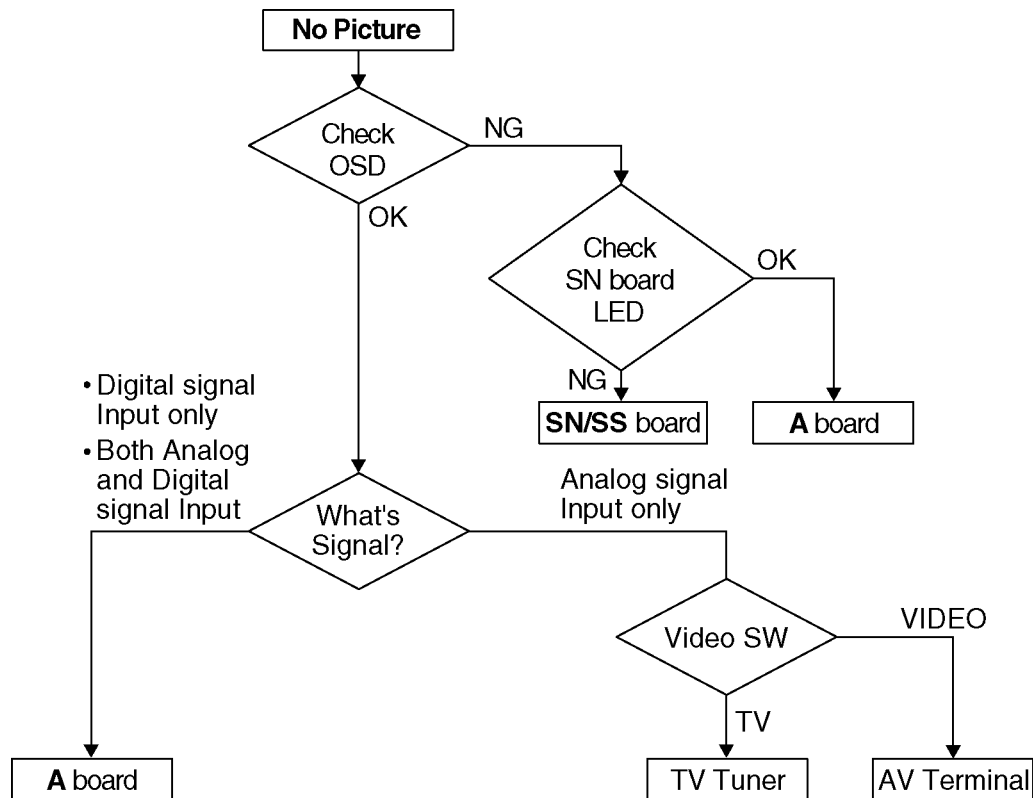
First check point

There are following 3 states of No Power indication by power LED.

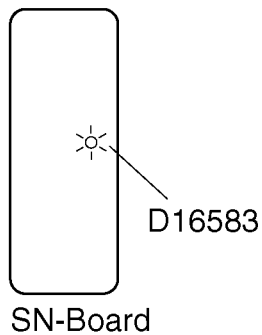
1. No lit.
2. Green is lit then turns red blinking a few seconds later. (See 7.2.)
3. Only red is lit.



7.4. No Picture



Drive circuits LED indicator



7.5. Local screen failure

Plasma display may have local area failure on the screen. Fig-1 is the possible defect P.C.B. for each local area.

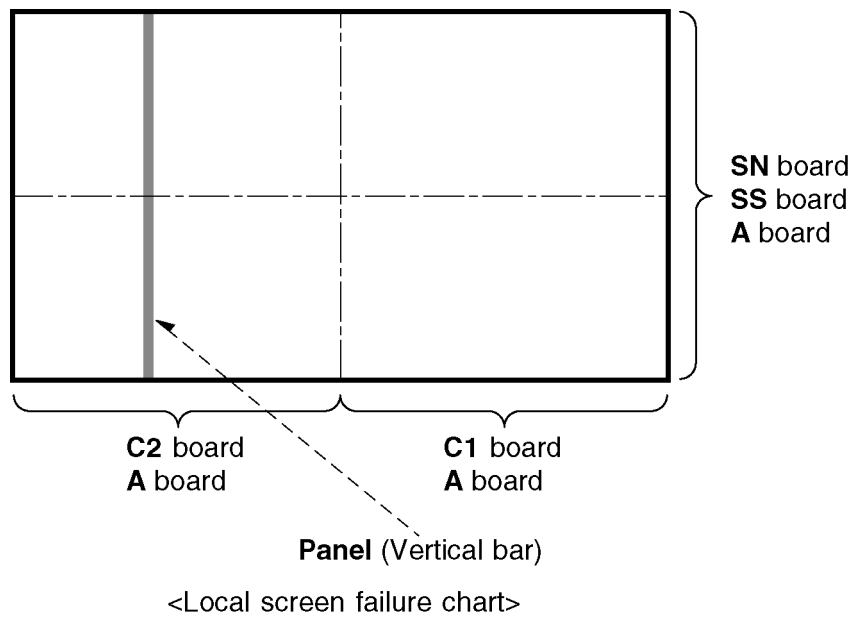


Fig-1

8 Disassembly and Assembly Instructions

8.1. Remove the Rear cover

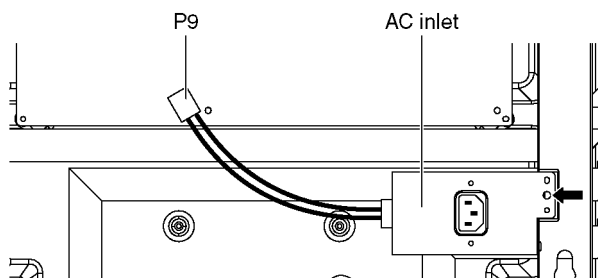
1. See PCB Layout (Section 3)

8.2. Remove the AC inlet

Caution:

To remove P.C.B. wait 1 minute after power was off for discharge from electrolysis capacitors.

1. Disconnect the connector (P9).
2. Remove the screw (×1 ➡) and remove the AC inlet.

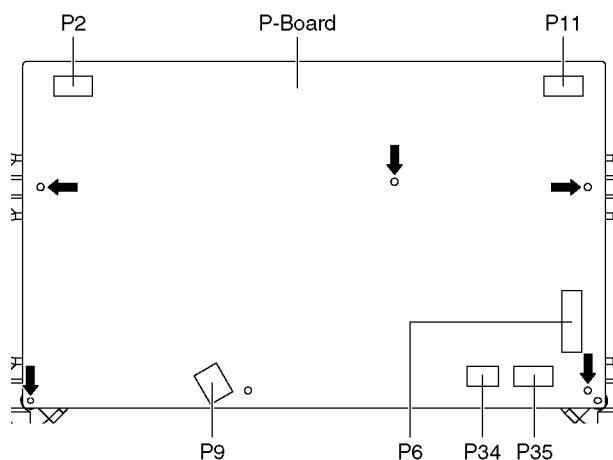


8.3. Remove the P-Board

Caution:

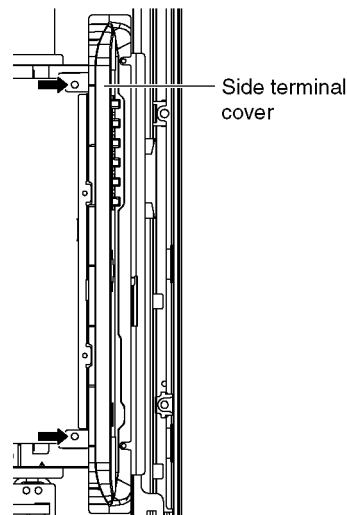
To remove P.C.B. wait 1 minute after power was off for discharge from electrolysis capacitors.

1. Disconnect the connectors (P2, P6, P9, P11, P34 and P35).
2. Remove the screws (×5 ➡) and remove the P-Board.



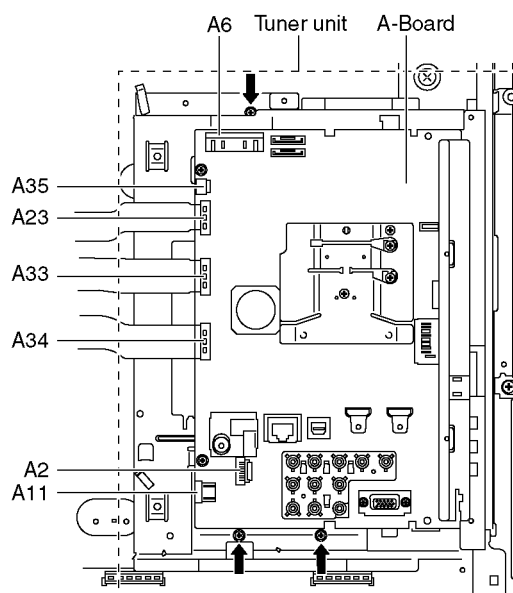
8.4. Remove the Side terminal cover

1. Remove the screws (×2 ➡).
2. Remove the Side terminal cover.



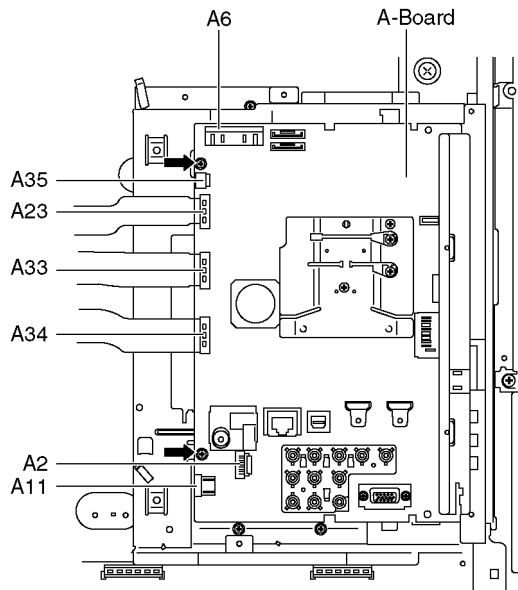
8.5. Remove the Tuner unit

1. Remove the Side terminal cover. (See section 8.4.)
2. Unlock the cable clampers to free the cable.
3. Disconnect the connectors (A2, A6, A11 and A35).
4. Disconnect the flexible cables (A23, A33 and A34).
5. Remove the screws (×3 ➡) and remove the Tuner unit.



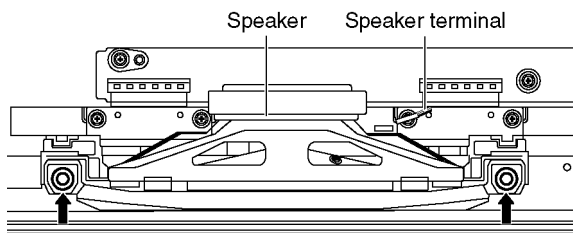
8.6. Remove the A-Board

1. Remove the Tuner unit. (See section 8.5.)
2. Remove the screws (×2 ➡) and remove the A-Board.



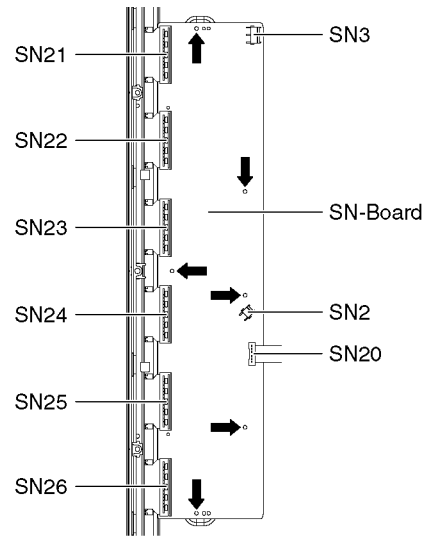
8.7. Remove the Speakers

1. Unlock the cable claspers to free the cable.
2. Disconnect the Speaker terminal.
3. Remove the screws (×2 ➡ each) and remove the Speakers (L, R).



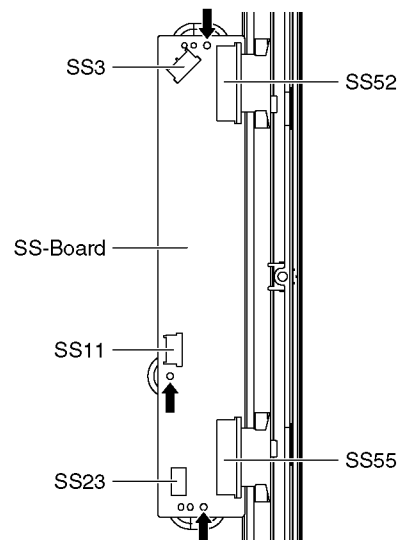
8.8. Remove the SN-Board

1. Disconnect the flexible cables (SN21, SN22, SN23, SN24, SN25 and SN26) connected to the SN-Board.
2. Disconnect the connectors (SN2 and SN3).
3. Disconnect the flexible cable (SN20).
4. Remove the screws (×6 ➡) and remove the SN-Board.



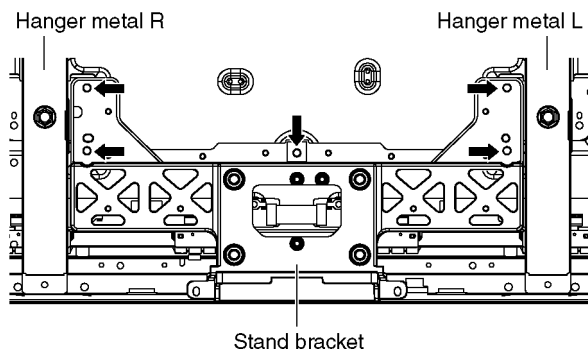
8.9. Remove the SS-Board

1. Remove the Tuner unit. (See section 8.5.)
2. Disconnect the connectors (SS3 and SS11).
3. Disconnect the flexible cables (SS23, SS52 and SS55).
4. Remove the screws (×3 ➡) and remove the SS-Board.

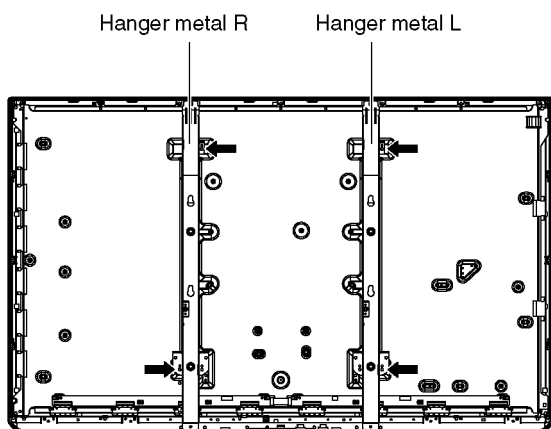


8.10. Remove the Stand bracket and the Hanger metals

1. Remove the Plasma panel section from the servicing stand and lay on a flat surface such as a table (covered by a soft cloth) with the Plasma panel surface facing downward.
2. Unlock the cable clampers to free the cable.
3. Remove the AC inlet. (See section 8.2.)
4. Remove the Stand bracket fastening screws (×5 ➡) and remove the Stand bracket.

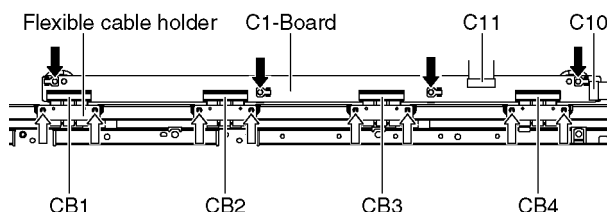


5. Remove the Hanger metals (L, R) fastening screws (×2 ➡ each) and remove the Hanger metals (L, R).



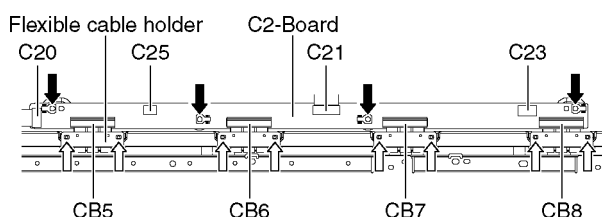
8.11. Remove the C1-Board

1. Remove the Hanger metal R and the Stand bracket. (See section 8.10.)
2. Remove the Flexible cable holder fastening screws (×8 ⇨).
3. Disconnect the flexible cables (CB1, CB2, CB3 and CB4).
4. Disconnect the flexible cables (C10 and C11).
5. Remove the screws (×4 ➡) and remove the C1-Board.



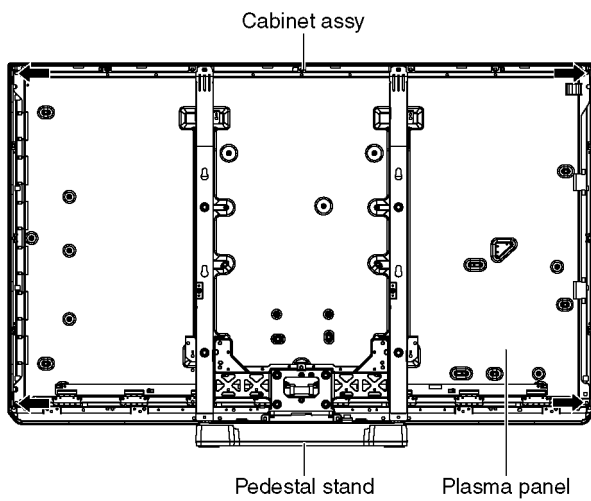
8.12. Remove the C2-Board

1. Remove the Tuner unit. (See section 8.5.)
2. Remove the Hanger metal L and the Stand bracket. (See section 8.10.)
3. Remove the Flexible cable holder fastening screws (×8 ⇨).
4. Disconnect the flexible cables (CB5, CB6, CB7 and CB8).
5. Disconnect the flexible cables (C20, C21 and C23).
6. Disconnect the connector (C25).
7. Remove the screws (×4 ➡) and remove the C2-Board.

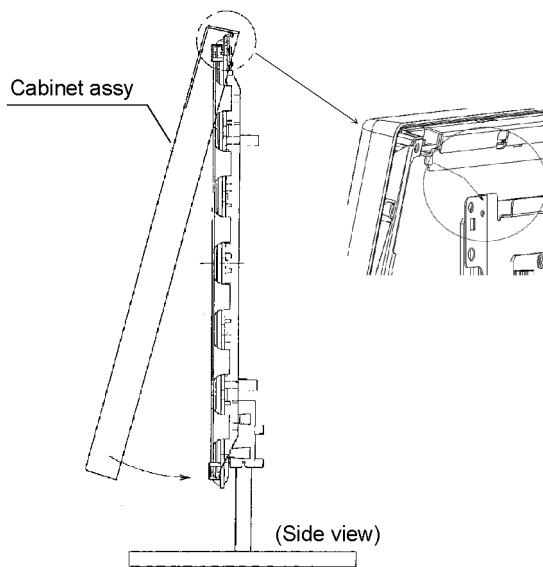


8.13. Remove the Plasma panel section from the Cabinet assy

1. Remove the Plasma panel fastening screws (×4 ➡) and remove the Cabinet assy.

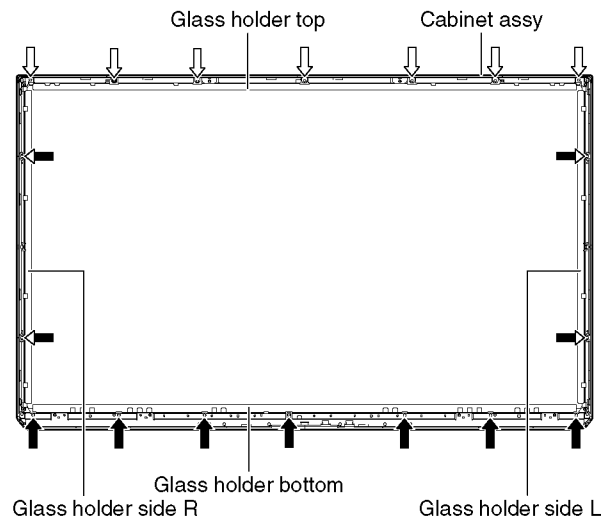


2. For leaving the Cabinet assy from the Plasma panel, pull the bottom of the Cabinet assy forward, lift, and remove.



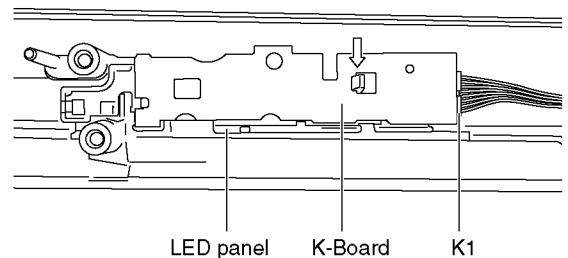
8.14. Remove the Glass holders

1. Remove the Cabinet assy. (See section 8.13.)
2. Remove the screws (×7 ⇨).
3. Remove the Glass holder top.
4. Remove the screws (×7 ➡).
5. Remove the Glass holder bottom.
6. Remove the screws (×4 ➡).
7. Remove the Glass holder side (L, R).



8.15. Remove the K-Board

1. Remove the Glass holder bottom. (See section 8.14.)
2. Remove the claw (×1 ⇨).
3. Disconnect the connector (K1) and Remove the K-Board from LED Panel.



8.16. Replace the Plasma panel

Caution:

A new Plasma panel itself without Hanger metals is fragile.

To avoid the damage to new Plasma panel, carry a new Plasma panel taking hold of the Hanger metals after assembling the Hanger metals and the Stand bracket.

1. Place a carton box packed a new Plasma panel on the flat surface of the work bench.
2. Open a box and without taking a new Plasma panel;
Attach the C1-Board and the C2-Board, connect the flexible cables from the Plasma panel to the C1-Board and the C2-Board, and fit the Flexible cable holders.
3. Attach the Hanger metals and the Stand bracket to the new Plasma panel.
4. Place the Plasma panel on the servicing stand taking hold of the Hanger metals.
5. Attach the Cabinet assy and each P.C.Board and so on, to the new Plasma panel.

***When fitting the Cabinet assy, be careful not to allow any debris, dust or handling residue to remain between the Front glass and Plasma panel.**

9 Measurements and Adjustments

9.1. Adjustment

9.1.1. Vsus selection

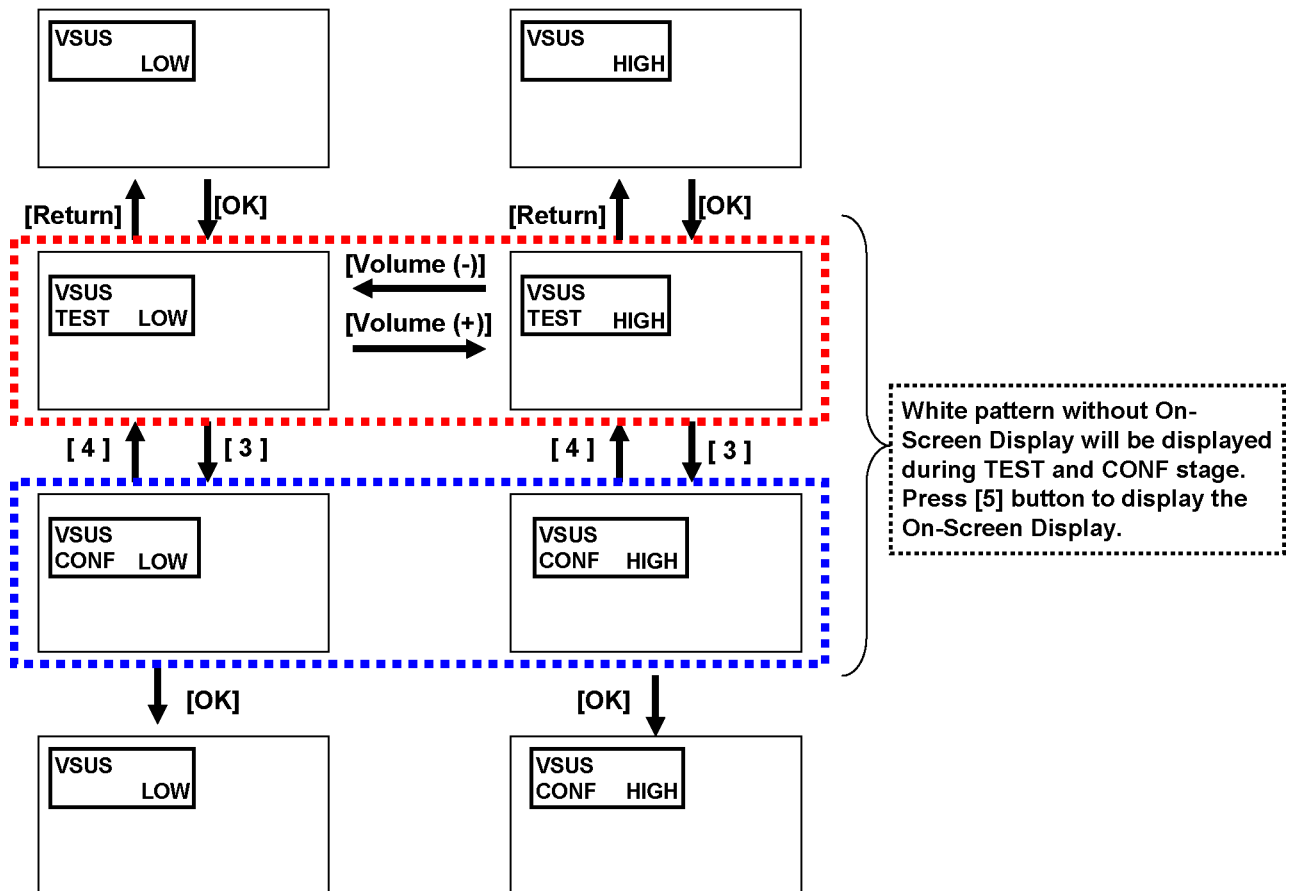
Caution:

When Plasma panel or A-board is replaced, Vsus should be set to LOW or HIGH.

Procedure

1. Go into main item [VSUS] in Service Mode. LOW or HIGH will be displayed.
2. Press [OK] button to go to TEST stage.
White pattern without On-Screen Display will be displayed during TEST and CONF stage. Press [5] button to display the On-Screen Display.
3. Press [VOL (-)] button to set to LOW.
4. In LOW setting
 - a. If no several dead pixel is visible remarkably in white pattern, press [3] button to go to CONF stage.
 - b. If the several dead pixels are visible remarkably in white pattern, Set to HIGH by press [VOL (+)] button. Press [3] button to go to CONF stage if the symptom is improved.
5. Press [OK] button in CONF stage to store LOW or HIGH.
6. Exit Service Mode by pressing [Power] button.

Vsus selection in Service mode



9.1.2. Sub-Contrast adjustment

Name of measuring instrument	Connection	Remarks
RF generator Base Band signal generator HD signal generator		
Steps		Remarks
Connect IIC cable (bus controller-cable) after banner OSD appear. And after SRQ-L, begin an adjustment 2 seconds later. Adjustment of TV (RF system) Note: In adjustment, you must setting to modulation of signal at 80%. 1. Receive a RF PAL 100% Full White or Split Colour bar shown as below. 2. Goes into service mode. 3. Push a [1] or [2] key, and goes into adjustment mode for [CONTRAST]. Adjustment 1. The colour key yellow button of remote control is pushed. 2. The OSD character of sub-contrast becomes red. (Inside under automatic adjustment) 3. The OSD character of sub-contrast returns to black. When [NG] is displayed, adjustment failure. 4. End.		Note: Sub-contrast adjustment is unadjusted for AV/ HD input. But, when needing the adjustment chosen manually, please refer to [alternative method].

Steps	Remarks
<u>Another procedure</u> Connect IIC cable (bus controller-cable) after banner OSD appear. And after SRQ-L, begin an adjustment 2 seconds later. Adjustment of AV system 1. PAL 100% Full White or Split Colour bar receive AV1(or AV2), shown as below. 2. Goes into service mode. 3. Push [1] or [2] key, and goes into adjustment mode for [Contrast]. Adjustment 1. The colour key yellow button of remote control is pushed. 2. The OSD character of sub-contrast becomes red. (Inside under automatic adjustment) 3. The OSD character of sub-contrast returns to black. When [NG] is displayed, adjustment failure. 4. End.	

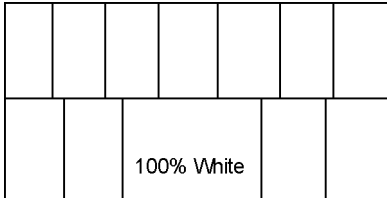
Steps	Remarks
Another procedure Connect IIC cable (bus controller-cable) after banner OSD appear. And after SRQ-L, begin an adjustment 2 seconds later. Adjustment of HD system 1. At 1080i 100% Full White or Split colour bar receive component signal, as shown below.  2. Goes into service mode. 3. Push [1] or [2] key, and goes into adjustment mode for [Contrast]. Adjustment 1. The colour key yellow button of remote control is pushed. 2. The OSD character of sub-contrast becomes red. (Inside under automatic adjustment) 3. The OSD character of sub-contrast returns to black. When [NG] is displayed, adjustment failure. 4. End.	

Table1, Sub-contrast Adustment initial data in Peaks EEPROM

06E0	Y Gain Standard for NTSC-G:RF (L)	Setting data
06E1	Y Gain Standard for NTSC-G:RF (H)	
06E2	Y Gain Standard for PAL-G:RF (L)	
06E3	Y Gain Standard for PAL-G:RF (H)	
06E4	Y Gain Standard for NTSC-G:ELSE (L)	
06E5	Y Gain Standard for NTSC-G:ELSE (H)	
06E6	Y Gain Standard for PAL-G:ELSE (L)	
06E7	Y Gain Standard for PAL-G:ELSE (H)	
06E8	Y Gain Standard for YUV (L)	
06E9	Y Gain Standard for YUV (H)	

9.1.3. White balance adjustment

The adjusting method is different according to the PEAKS EEPROM version.

[copy adjustment] : Peaks EEPROM ver.1.00-

[Differential and copy adjustment] : Peaks EEPROM ver.1.01-

Name of measuring instrument	Connection	Remarks
W/ B pattern Color analyzer (Minolta CA-100 or equivalent)	Panel surface	
Steps		Remarks
[copy adjustment] Connect IIC cable (bus controller-cable) after banner OSD appear. And after SRQ-L, begin an adjustment 2 seconds later. • Make sure the front panel to be used on the final set is fitted. • Make sure a color signal is not being shown before adjustment. • Put the color analyzer where there is little colour variation. Note: Copy Adjustment method in service mode. When you push [OK] key in each item, Adjustment data is copied between HD data and SD data.		Picture menu : Dynamic ASPECT : 16:9 Condition is same at alternative method too.
1. Enter the service mode. Please receive the Analog-RF. Or, please select CVBS/YUV/HDMI. (No inputting is possible.) (Forbid Analog-RF with no signal.) 2. A number key [1] or [2] are operated and [WB-ADJ] is displayed. Check that the color temp is [COOL]. 3. A number key [0] is operated and select [METHOD 01]. 4. A number key [5] is operated and [INNER PATTERN] is displayed. INNER PATTERN 5. Select [G-CUTOFF] item, using the number-key [3] or [4], and set to [80], using the volume-key [+] or [-]. Also, [B-CUTOFF] and [R-CUTOFF] set to [80]. 6. Set [G-DRIVE] at [D0]. 7. Touch the signal receiver of color analyzer to the INNER PATTERN center, and adjust B drive and R drive so x, y become the [COLOR TEMP COOL] in the below table1. 8. All RGB drive increase so that the maximum drive value of RGB may become [FF]. ([ALL-DRIVE] set to [FF].) 9. Set color temp to [NORMAL] using [7] key. 10. Fix G-CUTOFF, B-CUTOFF and R-CUTOFF at [80]. 11. Set [G-DRIVE] at [D0]. 12. Adjust B-DRIVE and R-DRIVE so the INNER PATTERN x, y become the [COLOR TEMP NORMAL] in the below table1. 13. All RGB drive increase so that the maximum drive value of RGB may become [FF]. ([ALL-DRIVE] set to [FF].) 14. Set color temp to [WARM] using [7] key. 15. Fix G-CUTOFF, B-CUTOFF and R-CUTOFF at [80]. 16. Set [G-DRIVE] at [D0]. 17. Adjust B-DRIVE and R-DRIVE so the INNER PATTERN x, y become the [COLOR TEMP WARM] in the below table1. 18. All RGB drive increase so that the maximum drive value of RGB may become [FF]. ([ALL-DRIVE] set to [FF].) 19. Confirm [METHOD=01]. Please refer table2-3 to address. Asking matter to execute white balance difference adjustment. Please feed back the DAC value in the adjusted each color temperature in an internal pattern.		METHOD=01 copy adjustments

Steps	Remarks
[Differential and copy adjustment] Execute adjustment for color temp. [NORMAL], and set data for color temp. [COOL], [WARM] by data shift WB of HD (or PAL) copies the adjustment data from an adjusted format side. Note: The adjustment does only color temp. [NORMAL]. A adjustment value difference from [NORMAL] is written to EEPROM as for [COOL] and [WARM] by operating a [OK] key. As for WB of HD (or RF), the adjustment data from an adjusted format side is copied simultaneously. Text color of the adjusted value changes into red → black at the same time too.	
1. Enter the service mode. Please receive the Analog-RF. Or, please select CVBS/YUV/HDMI. (No inputting is possible.). (Forbid Analog-RF with no signal.) 2. A number key [1] and [2] are operated and [WB-ADJ] is displayed. Check that the color temp is [NORMAL]. 3. A number key [0] is operated and select [METHOD 03]. 4. A number key [5] is operated and [INNER PATTERN] is displayed. INNER PATTERN 5. Select [G-CUTOFF] item, using the number-key [3] or [4], and set to [80], using the volume-key [+] or [-]. Also, [B-CUTOFF] and [R-CUTOFF] set to [80]. 6. Set [G-DRIVE] at [D0]. 7. Touch the signal receiver of color analyzer to the INNER PATTERN center, and adjust B drive and R drive so x, y become the [COLOR TEMP NORMAL] in the table 1. 8. All RGB drive increase so that the maximum drive value of RGB may become [FF]. ([ALL-DRIVE] set to [FF].) 9. A number key [0] is operated and select [METHOD=01]. Please refer table2-3 to address.	METHOD=03 Differential and copy adjustment

Table 1, Color temp. target value

COLOR TEMP	x	y
COOL	0.280	0.288
NORMAL	0.292	0.302
WARM	0.313	0.328

Table 2, Peaks EEP addresses (adjustment data)

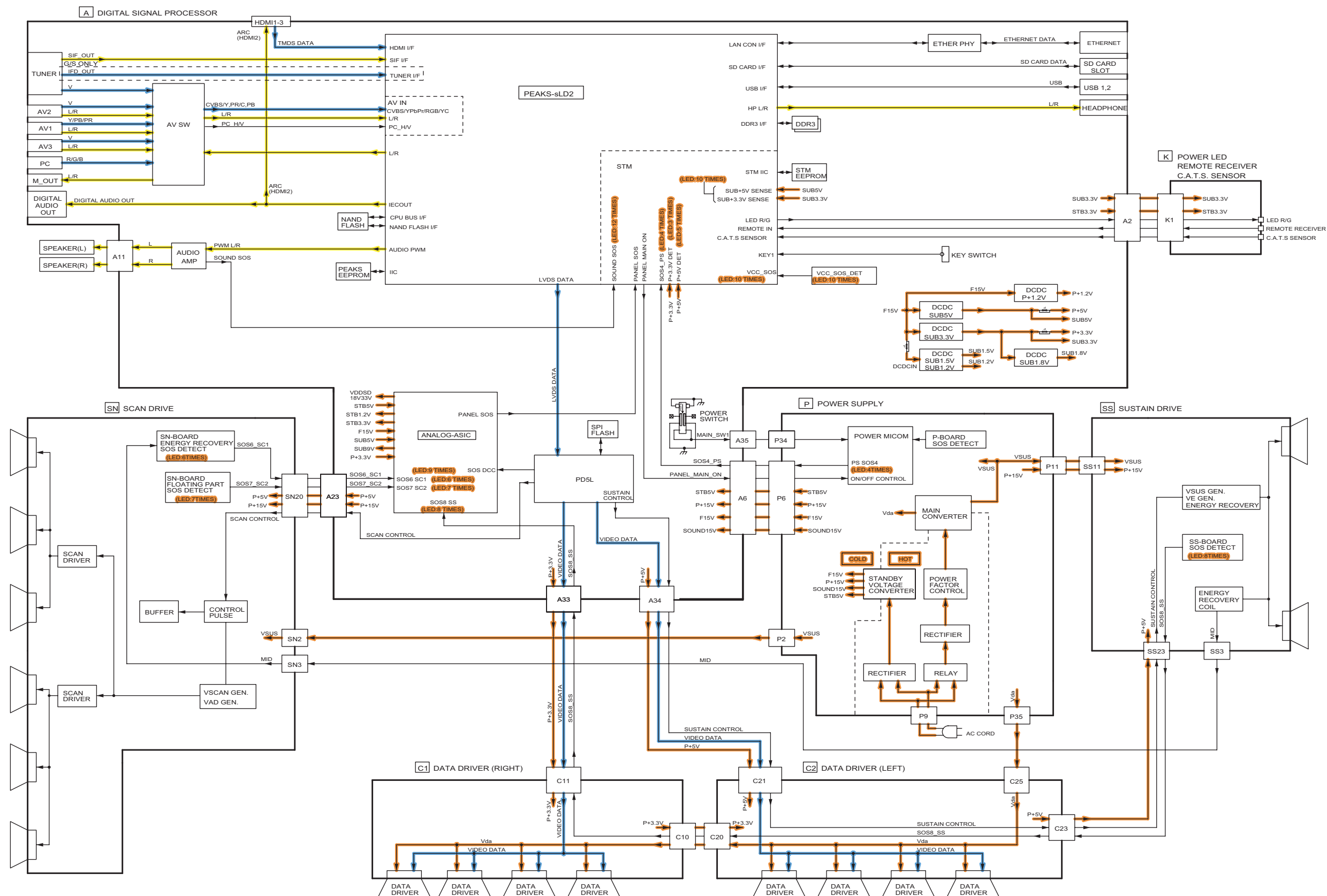
signal / temp	Meaning of value	address
SD High	R-Cutoff for SD High	A0-070c
	G-Cutoff for SD High	A0-070d
	B-Cutoff for SD High	A0-070e
	R-Drive for SD High	A0-070f
	G-Drive for SD High	A0-0710
	B-Drive for SD High	A0-0711
SD Middle	R-Cutoff for SD Middle	A0-0712
	G-Cutoff for SD Middle	A0-0713
	B-Cutoff for SD Middle	A0-0714
	R-Drive for SD Middle	A0-0715
	G-Drive for SD Middle	A0-0716
	B-Drive for SD Middle	A0-0717
SD Low	R-Cutoff for SD Low	A0-0718
	G-Cutoff for SD Low	A0-0719
	B-Cutoff for SD Low	A0-071a
	R-Drive for SD Low	A0-071b
	G-Drive for SD Low	A0-071c
	B-Drive for SD Low	A0-071d
HD High	R-Cutoff for HD High	A0-071e
	G-Cutoff for HD High	A0-071f
	B-Cutoff for HD High	A0-0720
	R-Drive for HD High	A0-0721
	G-Drive for HD High	A0-0722
	B-Drive for HD High	A0-0723
HD Middle	R-Cutoff for HD Middle	A0-0724
	G-Cutoff for HD Middle	A0-0725
	B-Cutoff for HD Middle	A0-0726
	R-Drive for HD Middle	A0-0727
	G-Drive for HD Middle	A0-0728
	B-Drive for HD Middle	A0-0729
HD Low	R-Cutoff for HD Low	A0-072a
	G-Cutoff for HD Low	A0-072b
	B-Cutoff for HD Low	A0-072c
	R-Drive for HD Low	A0-072d
	G-Drive for HD Low	A0-072e
	B-Drive for HD Low	A0-072f

Table 3, Peaks EEP addresses (DIFF setting)

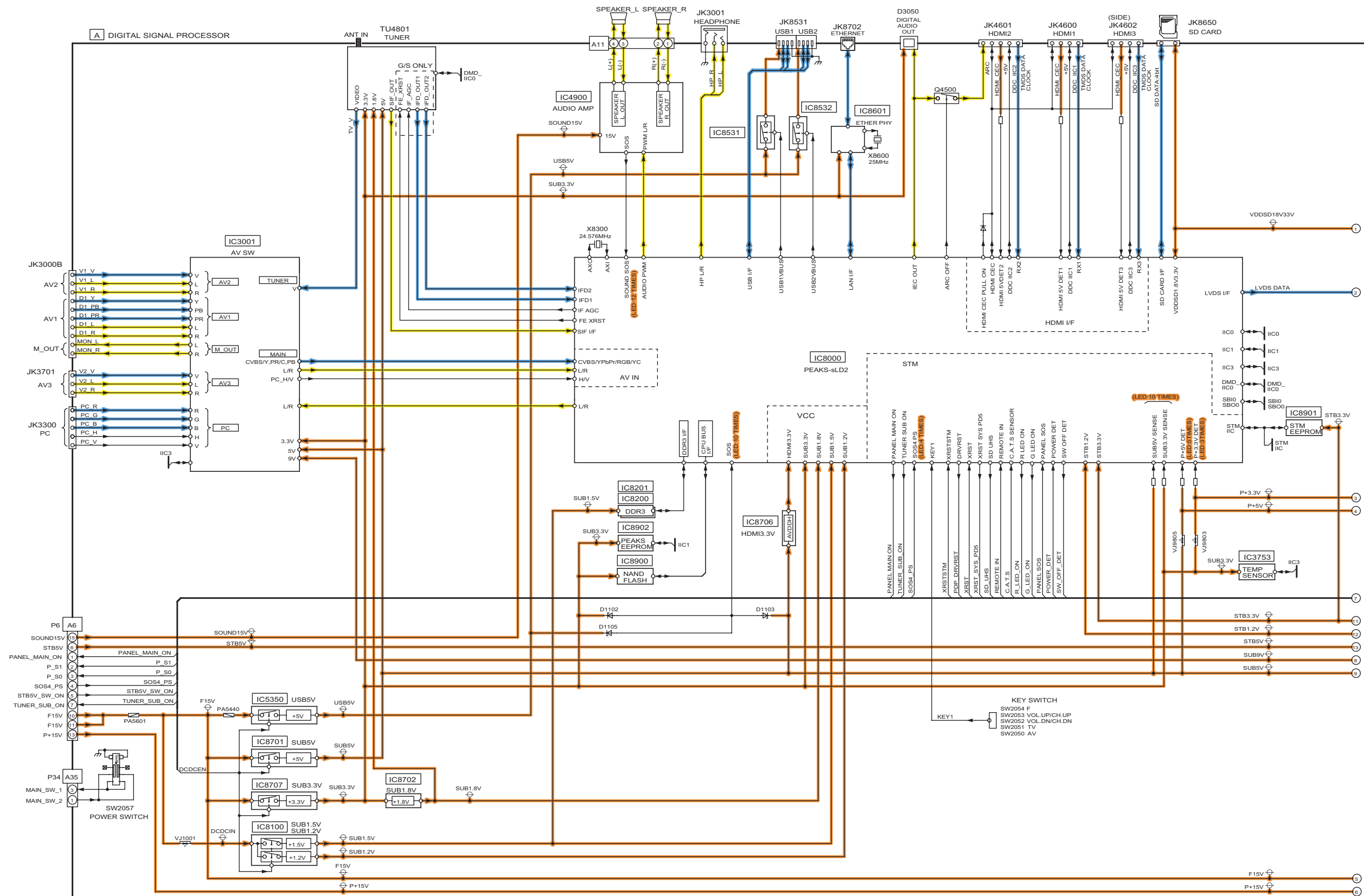
signal / temp	Meaning of value	address
SD High	R-Cutoff difference for SD High	A0-0730
	G-Cutoff difference for SD High	A0-0731
	B-Cutoff difference for SD High	A0-0732
	R-Drive difference for SD High	A0-0733
	G-Drive difference for SD High	A0-0734
	B-Drive difference for SD High	A0-0735
SD Middle	R-Cutoff difference for SD Middle	A0-0736
	G-Cutoff difference for SD Middle	A0-0737
	B-Cutoff difference for SD Middle	A0-0738
	R-Drive difference for SD Middle	A0-0739
	G-Drive difference for SD Middle	A0-073a
	B-Drive difference for SD Middle	A0-073b
SD Low	R-Cutoff difference for SD Low	A0-073c
	G-Cutoff difference for SD Low	A0-073d
	B-Cutoff difference for SD Low	A0-073e
	R-Drive difference for SD Low	A0-073f
	G-Drive difference for SD Low	A0-0740
	B-Drive difference for SD Low	A0-0741
HD High	R-Cutoff difference for HD High	A0-0742
	G-Cutoff difference for HD High	A0-0743
	B-Cutoff difference for HD High	A0-0744
	R-Drive difference for HD High	A0-0745
	G-Drive difference for HD High	A0-0746
	B-Drive difference for HD High	A0-0747
HD Middle	R-Cutoff difference for HD Middle	A0-0748
	G-Cutoff difference for HD Middle	A0-0749
	B-Cutoff difference for HD Middle	A0-074a
	R-Drive difference for HD Middle	A0-074b
	G-Drive difference for HD Middle	A0-074c
	B-Drive difference for HD Middle	A0-074d
HD Low	R-Cutoff difference for HD Low	A0-074e
	G-Cutoff difference for HD Low	A0-074f
	B-Cutoff difference for HD Low	A0-0750
	R-Drive difference for HD Low	A0-0751
	G-Drive difference for HD Low	A0-0752
	B-Drive difference for HD Low	A0-0753

10 Block Diagram

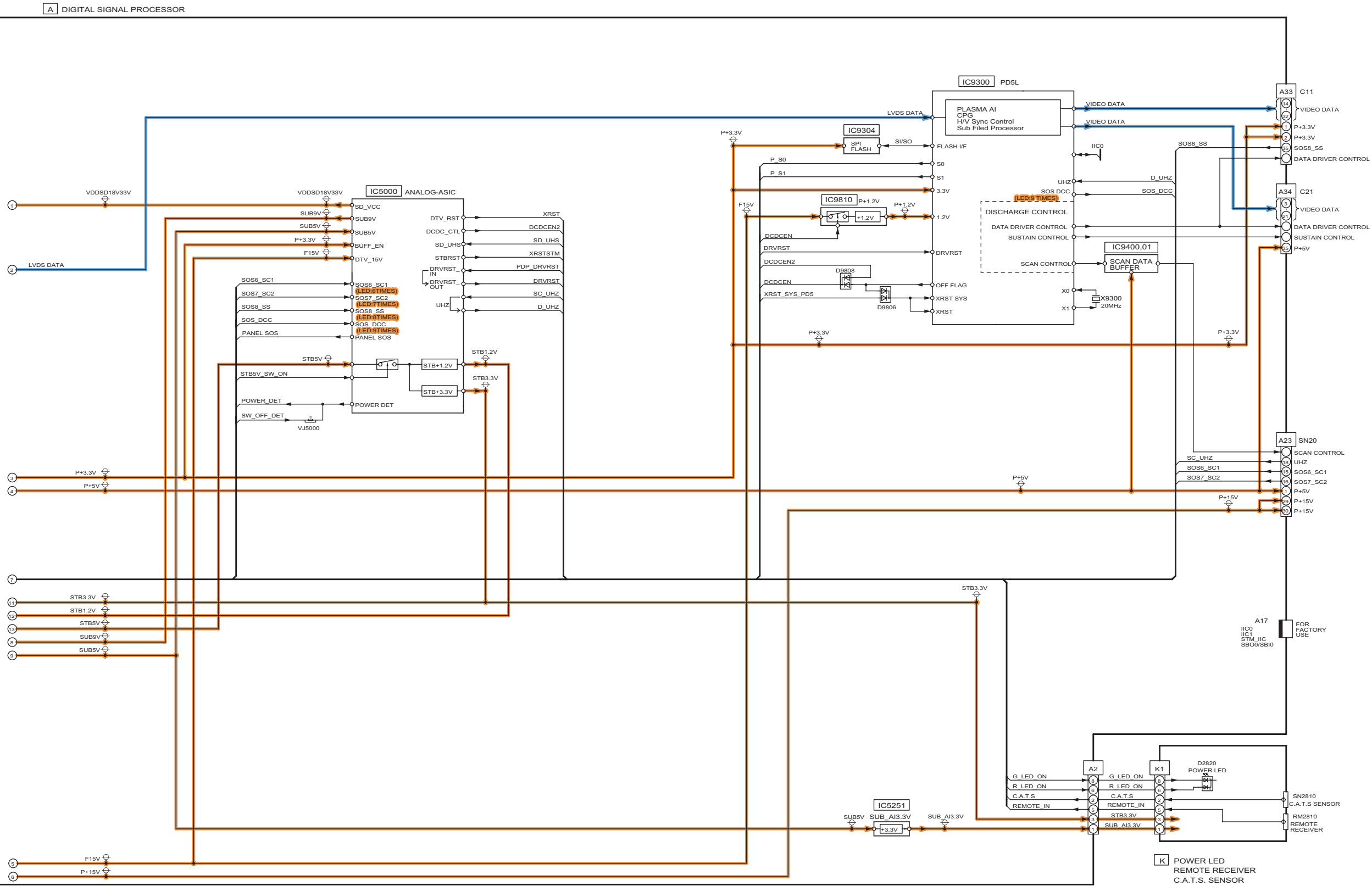
10.1. Main Block Diagram



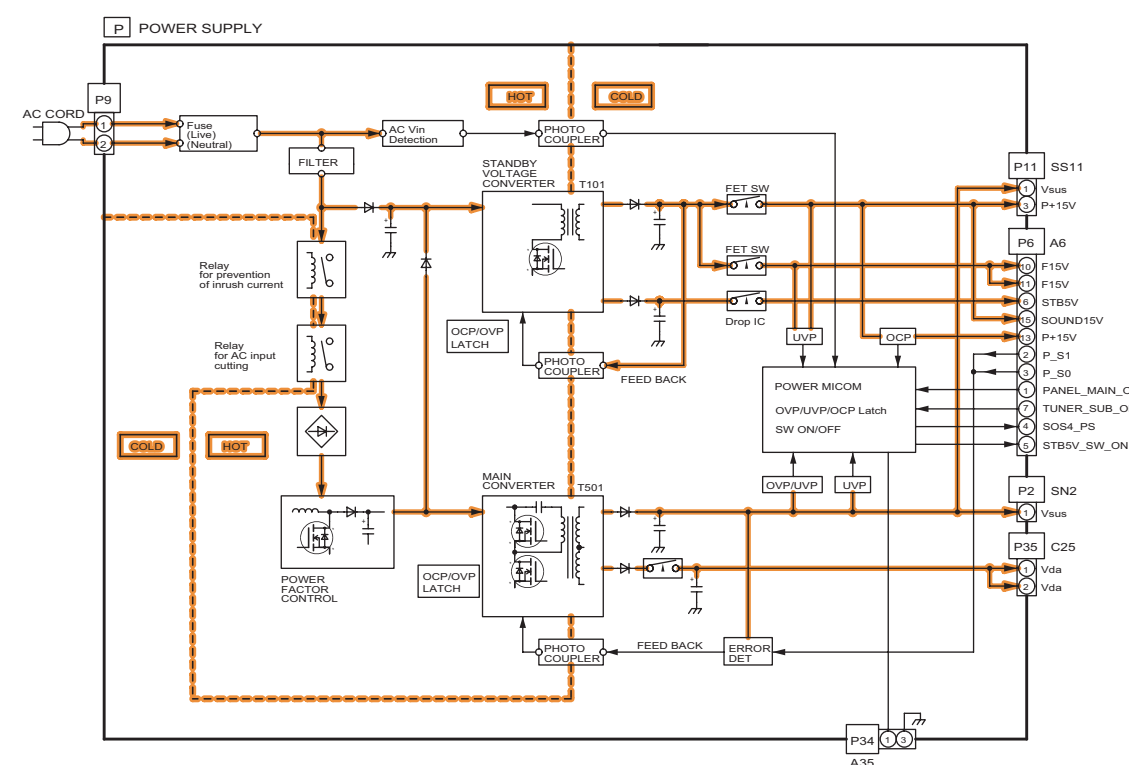
10.2. Block (1/4) Diagram



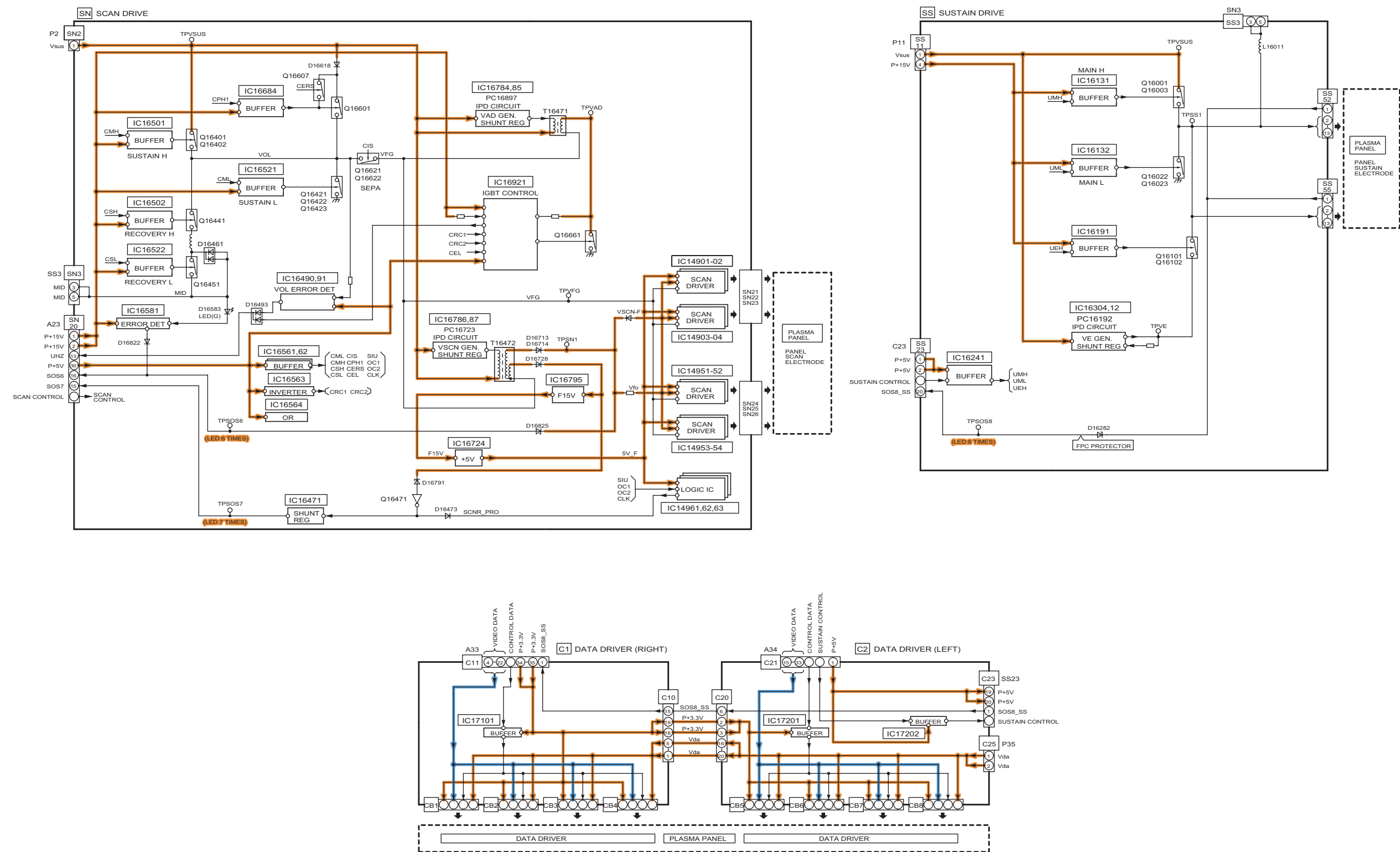
10.3. Block (2/4) Diagram



10.4. Block (3/4) Diagram



10.5. Block (4/4) Diagram



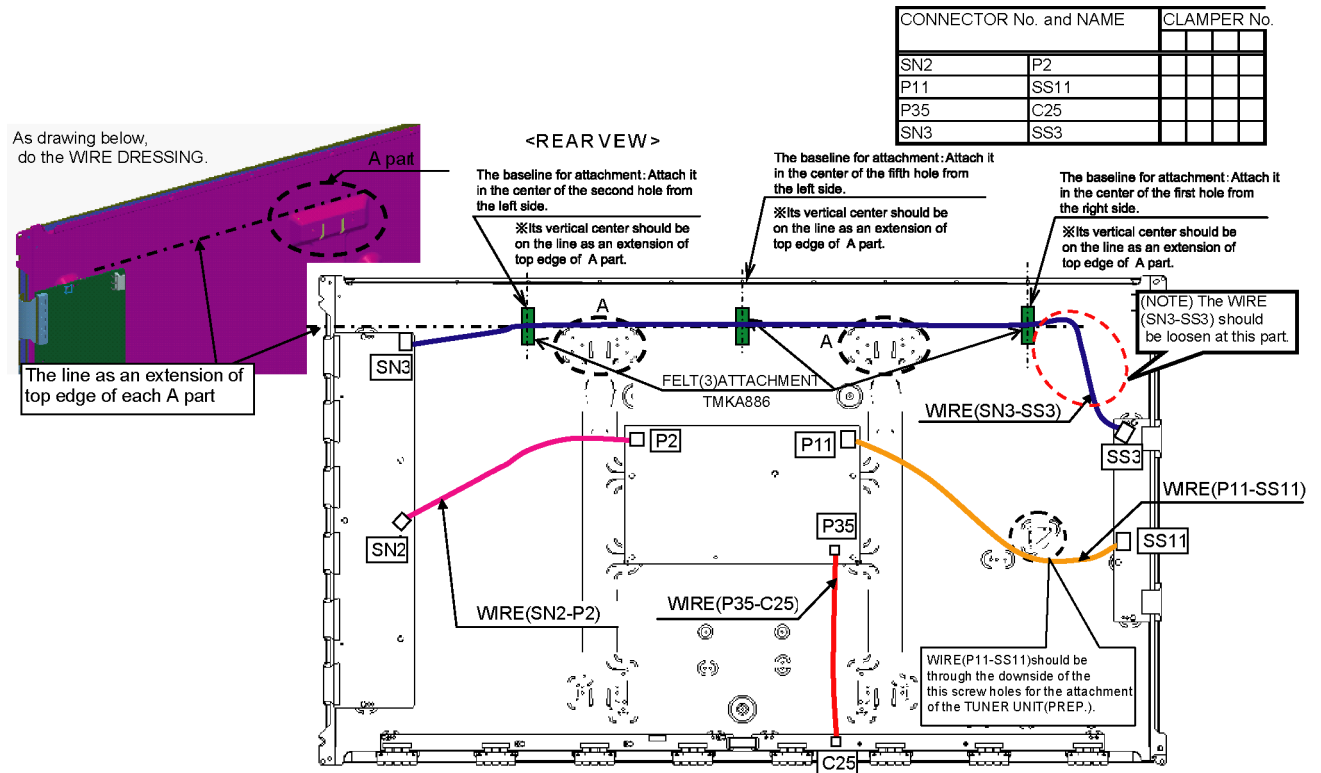
11 Wiring Connection Diagram

11.1. Caution statement.

Caution:

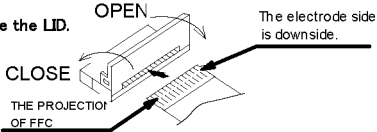
Please confirm that all flexible cables are assembled correctly.
Also make sure that they are locked in the connectors.
Verify by giving the flexible cables a very slight pull.

11.2. Wiring (1)



11.3. Wiring (2)

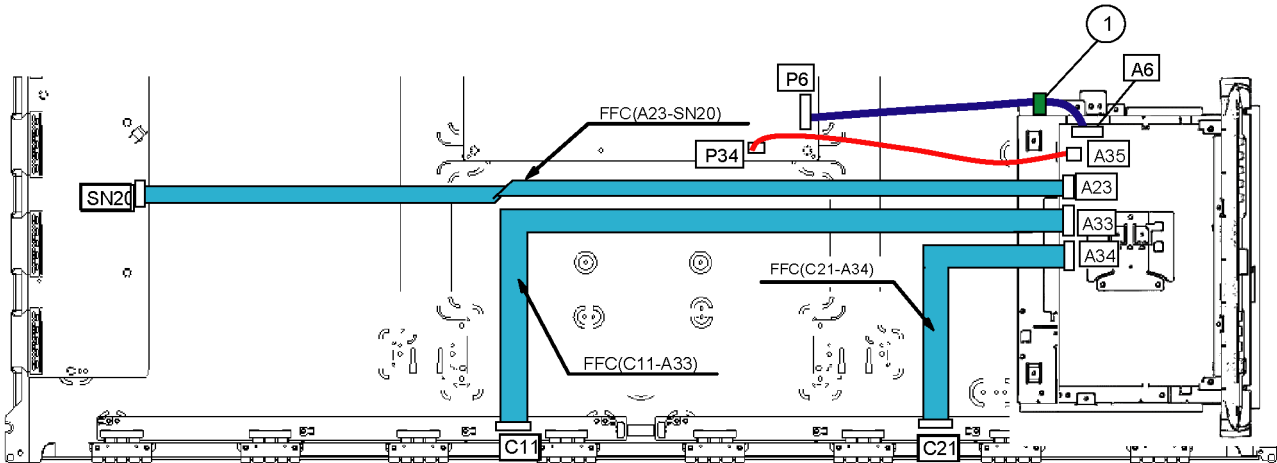
- ①Open the LID.
- ②Insert the FFC to the CONNECTOR, and hitch the projection of the FFC to ribs of the CONNECTOR.
- ③Close the LID.



(NOTE)
Avoid any damage of the CONNECTOR,
as opening and closing the LID.

As drawing below, do the wire dressing.

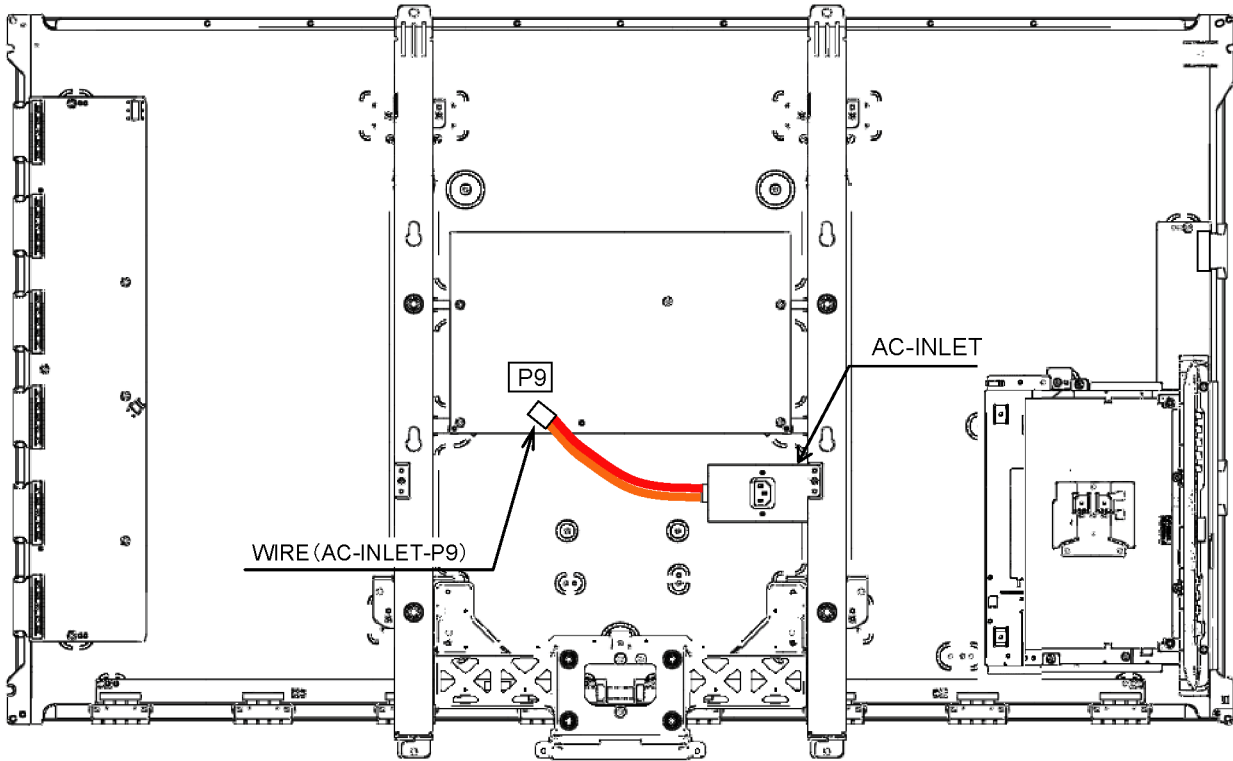
CONNECTOR No. and NAME		CLAMPER No.			
		1			
SN20	A23				
C11	A33				
C21	A34				
P6	A6	○			
P34	A35				



11.4. Wiring (3)

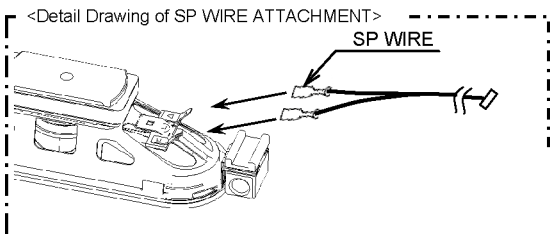
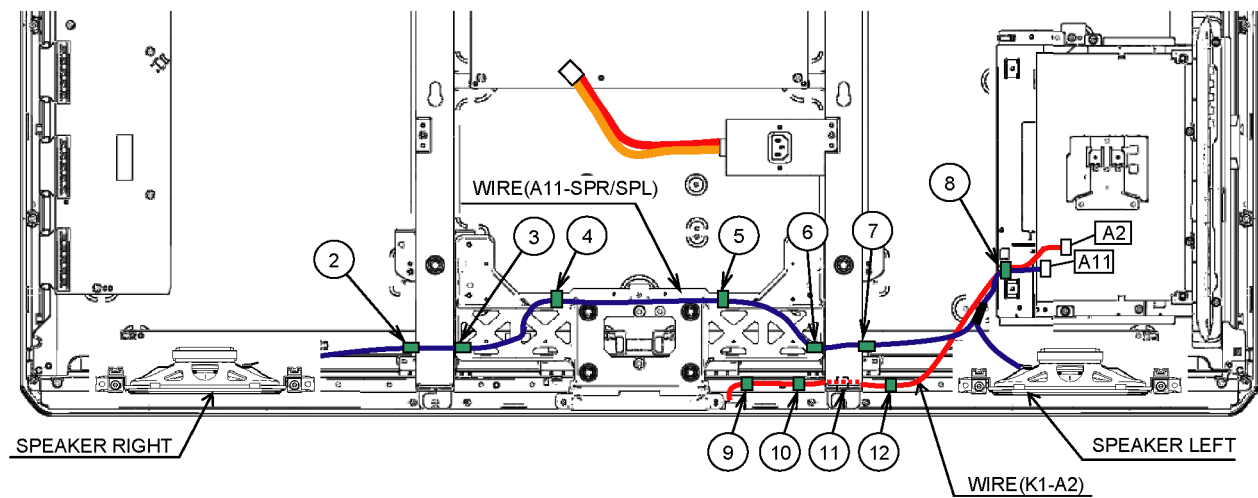
As drawing below,
do the WIRE DRESSING.

CONNECTOR No. and NAME		CLAMPER No.			
P9	AC-INLET				



11.5. Wiring (4)

As drawing below,
do the WIRE DRESSING.



CONNECTOR No. and NAME		CLAMPER No.											
		2	3	4	5	6	7	8	9	10	11	12	
A11	SPEAKER R	○	○	○	○	○	○	○					
	SPEAKER L								○				
K1	A2								○	●	●	●	●

Notes:

1. Resistor
Unit of resistance is OHM [Ω] ($K=1,000$, $M=1,000,000$).
2. Capacitor
Unit of capacitance is μF , unless otherwise noted.
3. Coil
Unit of inductance is H, unless otherwise noted.
4. Test Point
 : Test Point position
5. Earth Symbol
 : Chassis Earth (Cold)  : Line Earth (Hot)
6. Voltage Measurement
Voltage is measured by a DC voltmeter.
Conditions of the measurement are the following:
Power Source AC 110-240 V, 50/60Hz (P)
 AC 220-240 V(, 50/60Hz Except P)
Receiving Signal Colour Bar signal (RF)
All customer's controls Maximum positions
7. When arrow mark () is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. Video ➡ Audio ⇌
9. This schematic diagram is the latest at the time of printing and subject to change without

Notice: Use the parts number indicated on the Replacement parts List.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
All circuits, except the Power Circuit, are cold.
Precautions
 - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.

Model No. : TH-P50X30D/G/K/M/P/S/V Replacement Parts List Note

Note: All parts except parts mentioned [PAVCTH] in the Remarks column are supplied by AVC-CSPC.
Parts mentioned [PAVCTH] are supplied by PAVCTH.

Notice: Be sure to make your orders of replacement parts according to this list.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
 Type Allowance

2. Capacitor

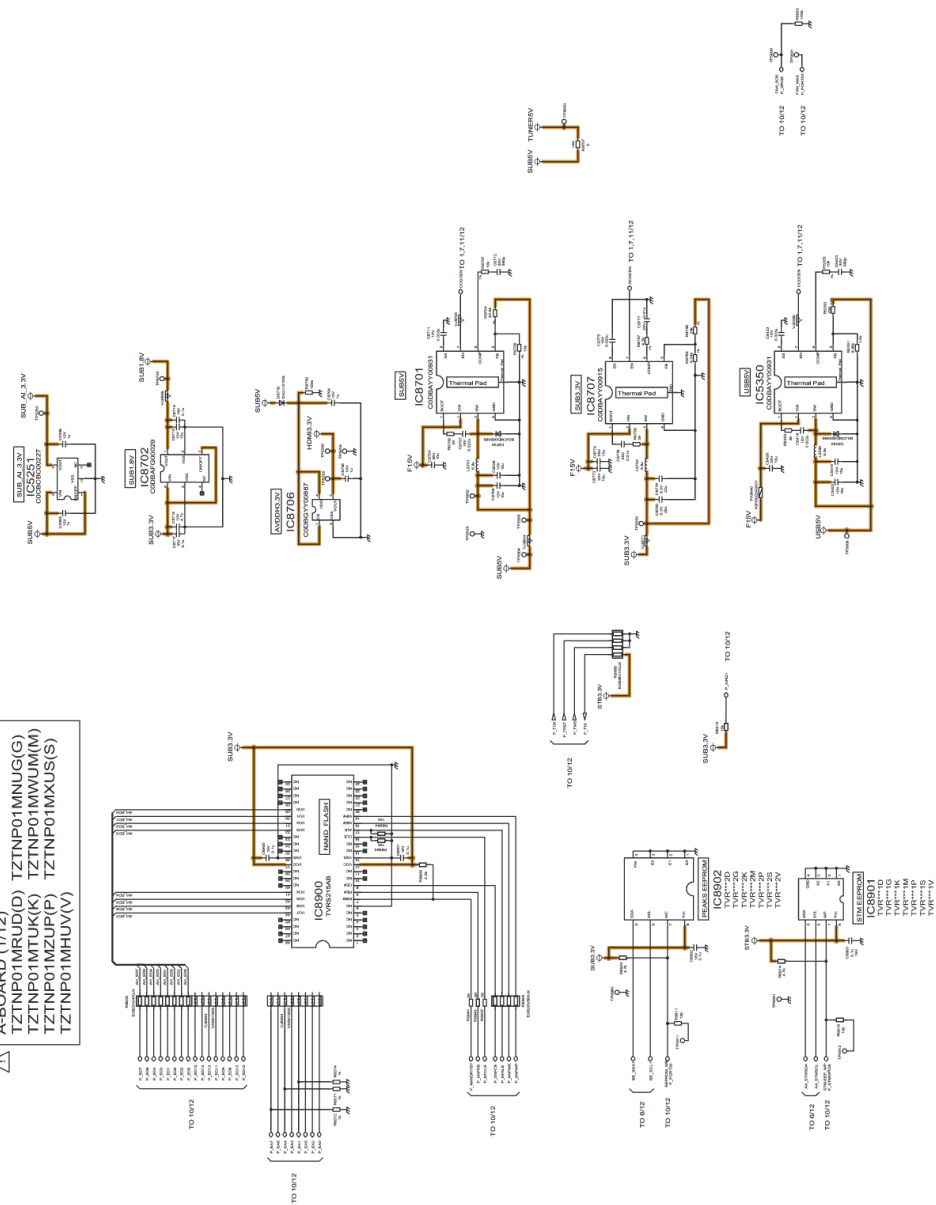
Example:

ECKF1H103ZF C 0.01UF, Z, 50V
 Type Allowance

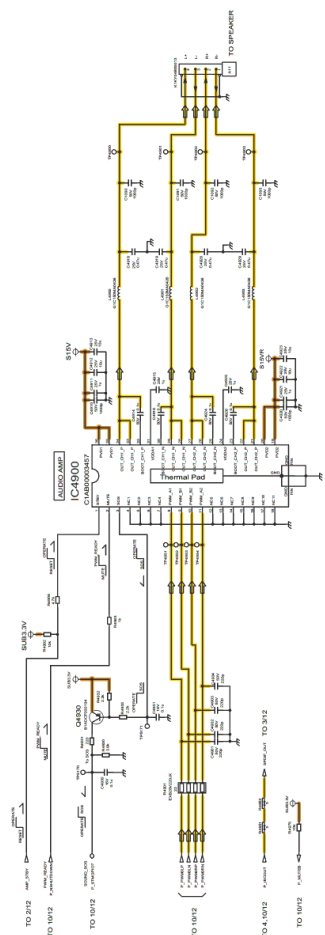
Type	Allowance
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide	J : $\pm 5\%$
Metal Film	K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	

Type	Allowance
C : Ceramic	C : $\pm 0.25\text{pF}$
E : Electrolytic	D : $\pm 0.5\text{pF}$
P : Polyester	F : $\pm 1\text{pF}$
Polyprop	G : $\pm 3\text{pF}$
lene	J : $\pm 5\text{pF}$
T : Tantalum	K : $\pm 10\text{pF}$
	L : $\pm 15\text{pF}$
	M : $\pm 20\text{pF}$
	P : +100%, -0%
	Z : +80%, -20%

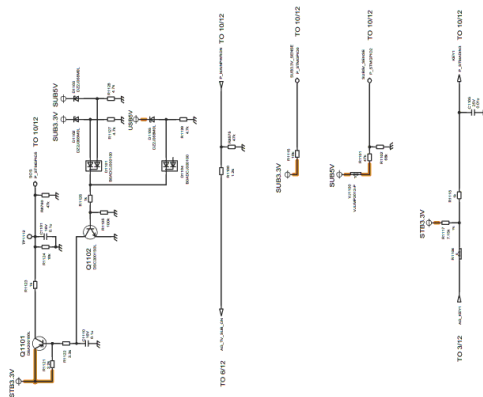
△ A-BOARD (1/12)
TZTNP01MRUD(D) TZTNP01MNUG(G)
TZTNP01MTUK(K) TZTNP01MWUM(M)
TZTNP01MZUP(P) TZTNP01MXUS(S)
TZTNP01MHUV(V)

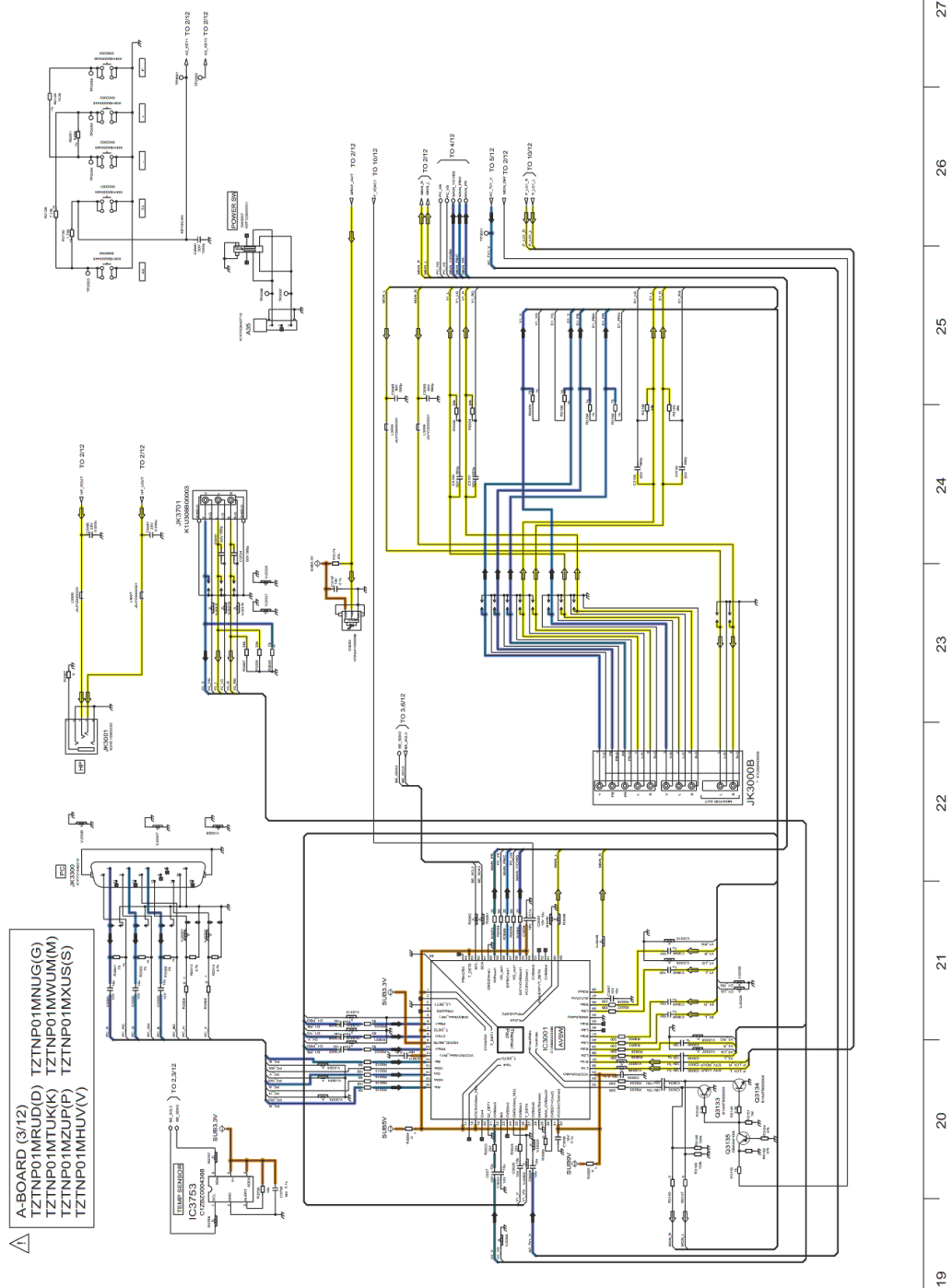


1 2 3 4 5 6 7 8 9

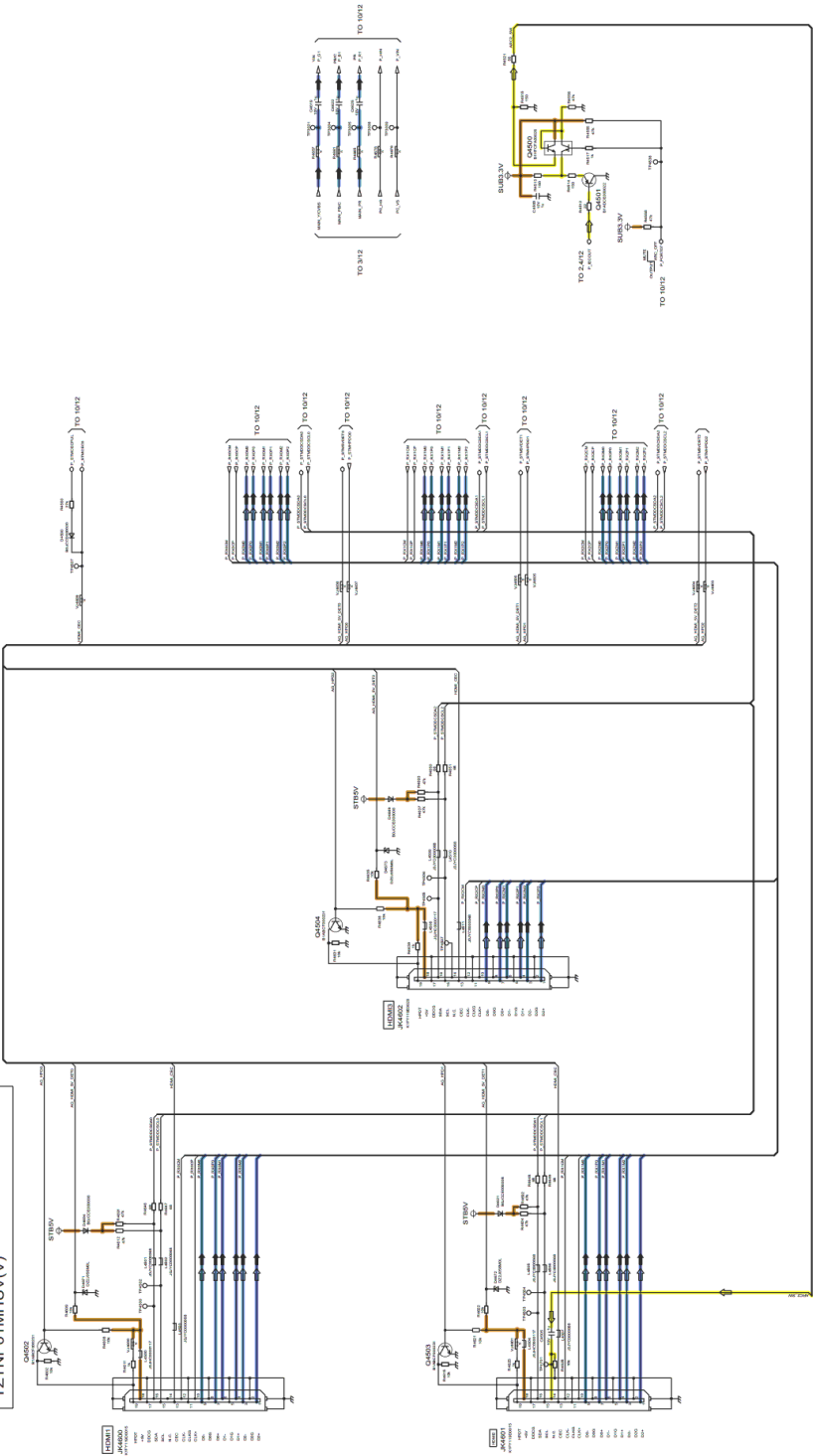


A-BOARD (2/12)
TZ1NP01MRUD(D) TZ1NP01MNUG(G)
TZ1NP01MTUK(K) TZ1NP01MWUM(M)
TZ1NP01MZUP(P) TZ1NP01MXUS(S)
TZ1NP01MHUV(V)

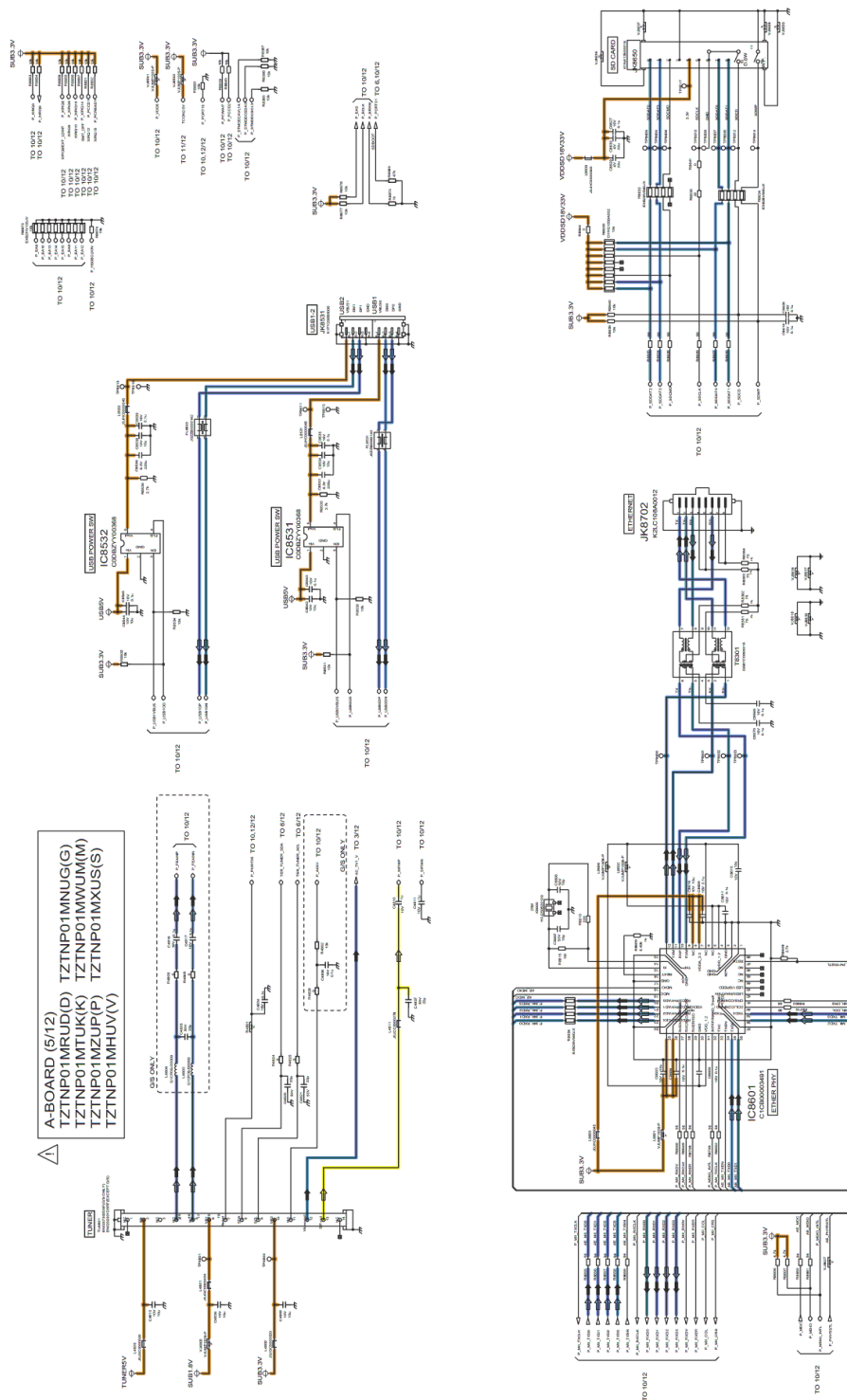


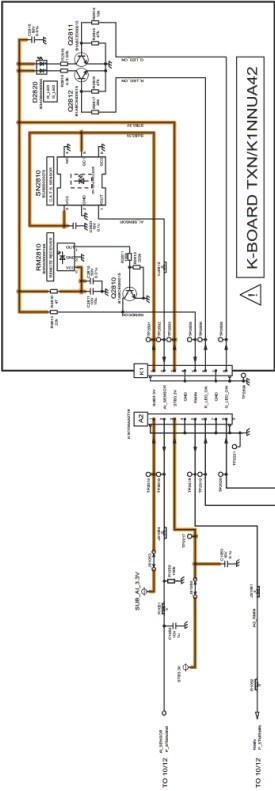


△
A-BOARD (4/12)
TZTNP01MRUD(D) TZTNP01MNUG(G)
TZTNP01MTUK(K) TZTNP01MWUM(M)
TZTNP01MZUP(P) TZTNP01MXUS(S)
TZTNP01MHUV(V)

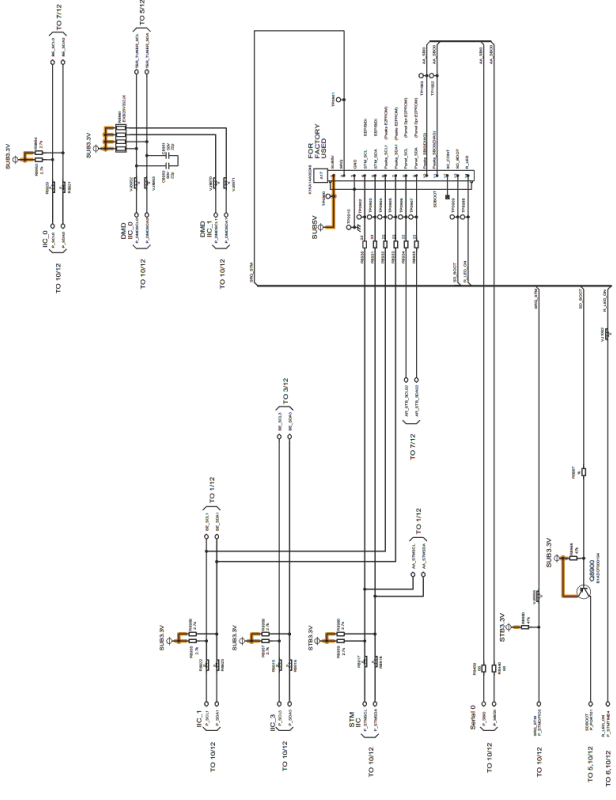
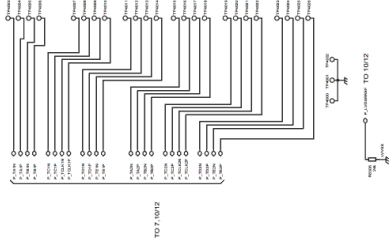
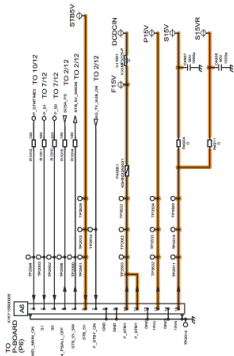


28 29 30 31 32 33 34 35 36

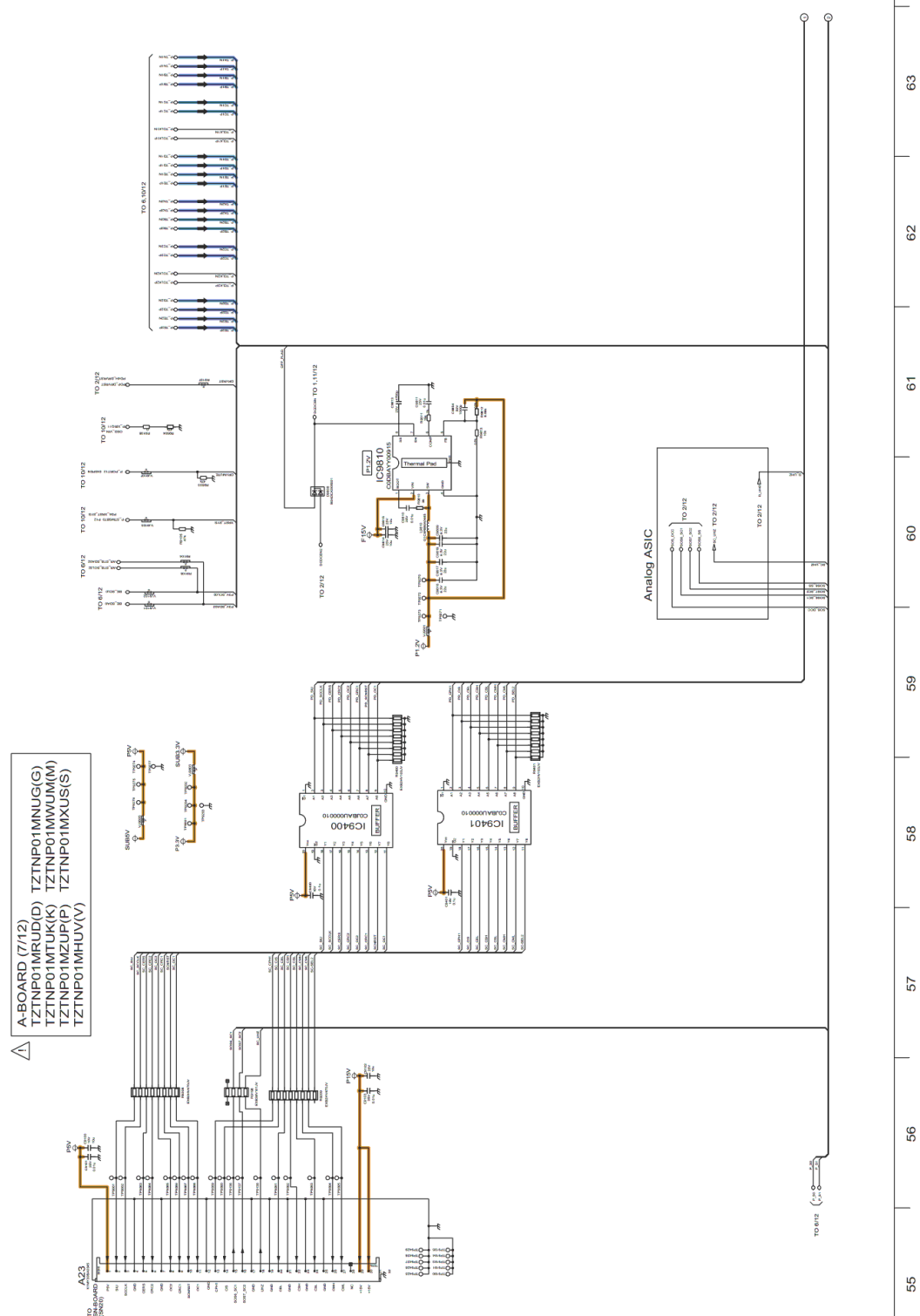


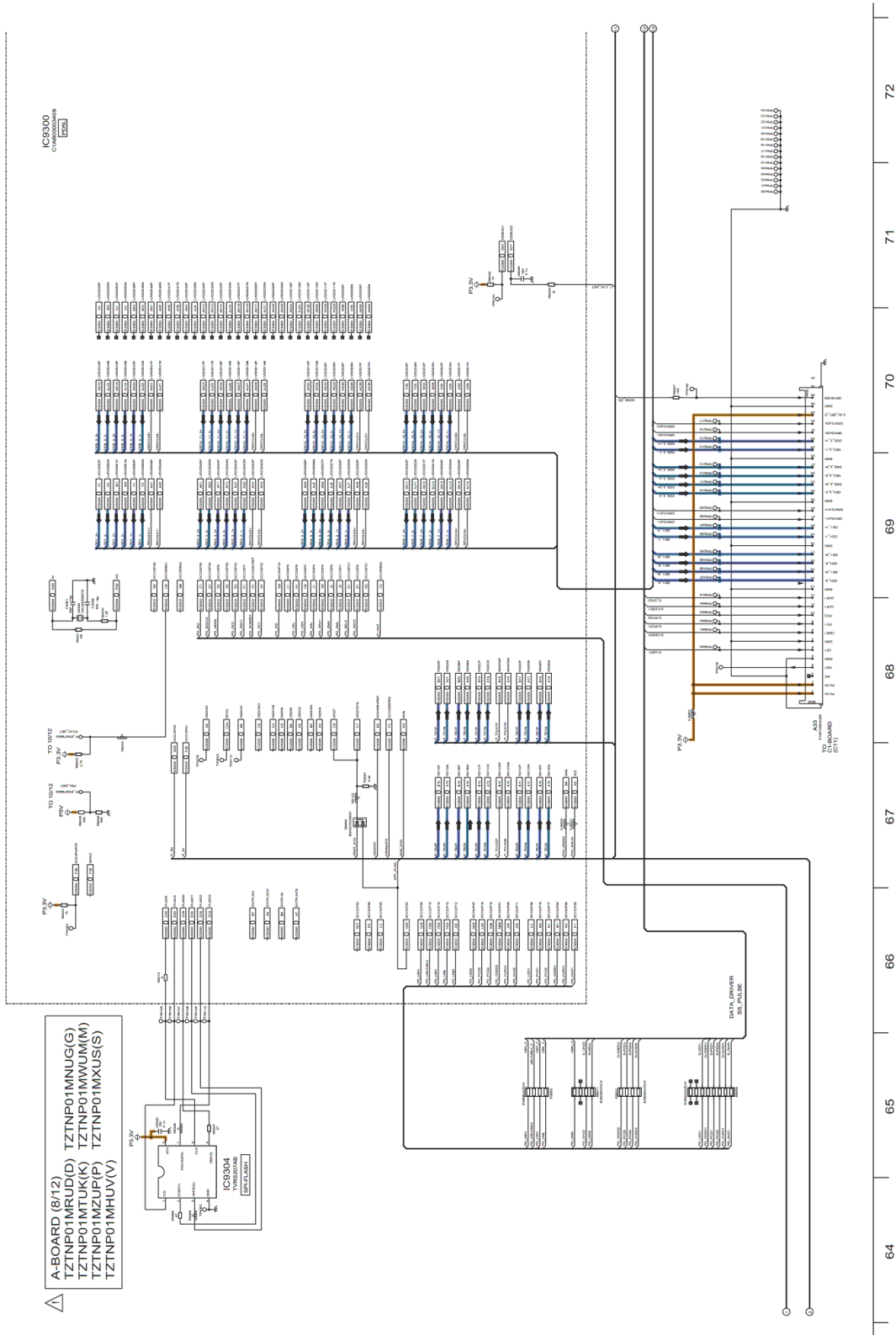


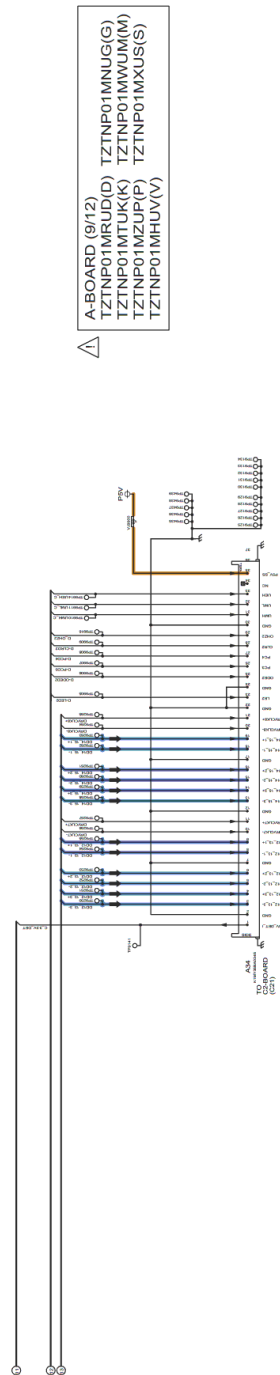
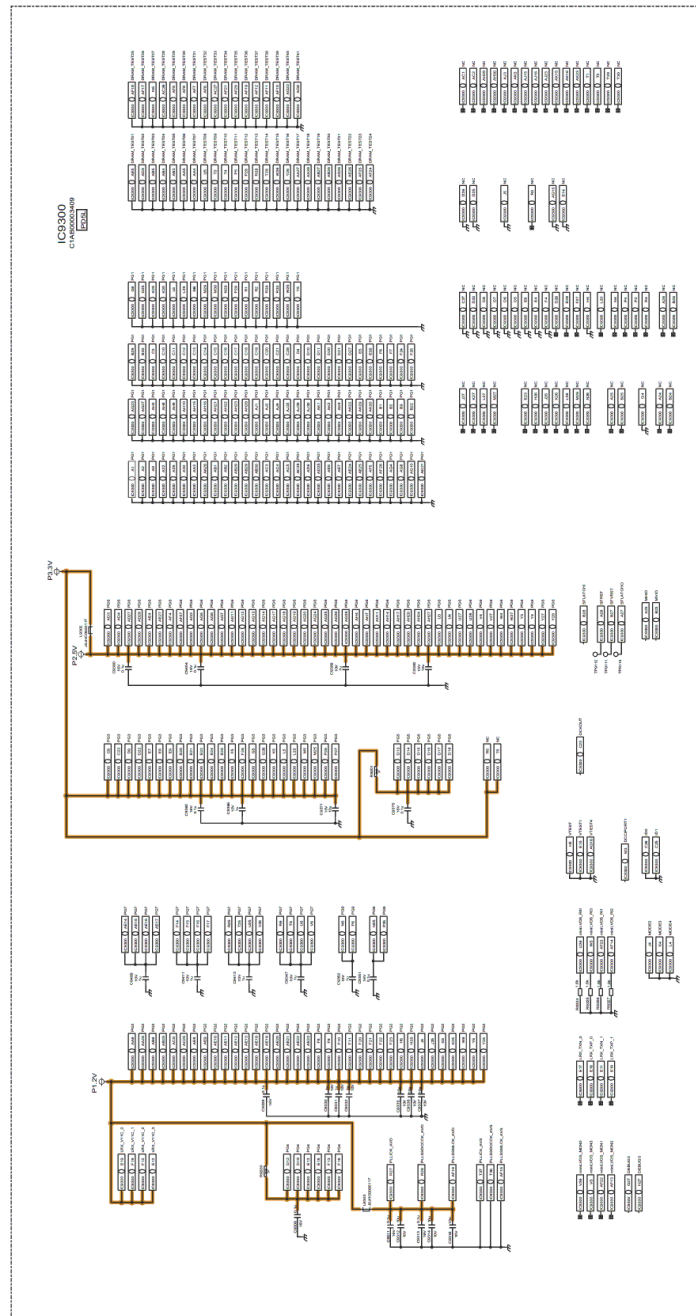
A-BOARD (6/12)
TZTNP01MFUD(D) TZTNP01MNUG(G)
TZTNP01MTUK(K) TZTNP01MWUM(M)
TZTNP01MZUP(P) TZTNP01MXUS(S)
TZTNP01MHUV(V)



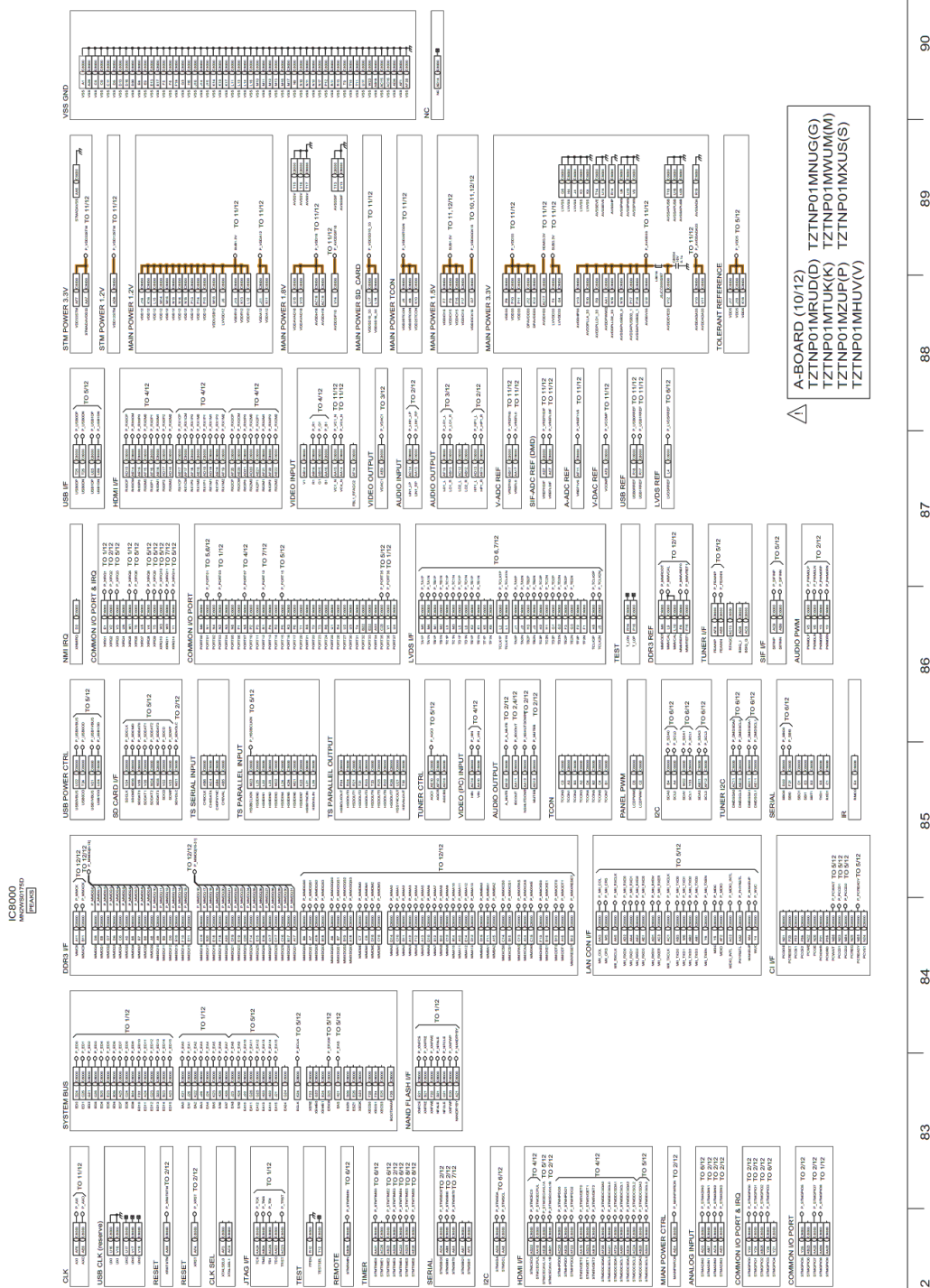
46 47 48 49 50 51 52 53 54

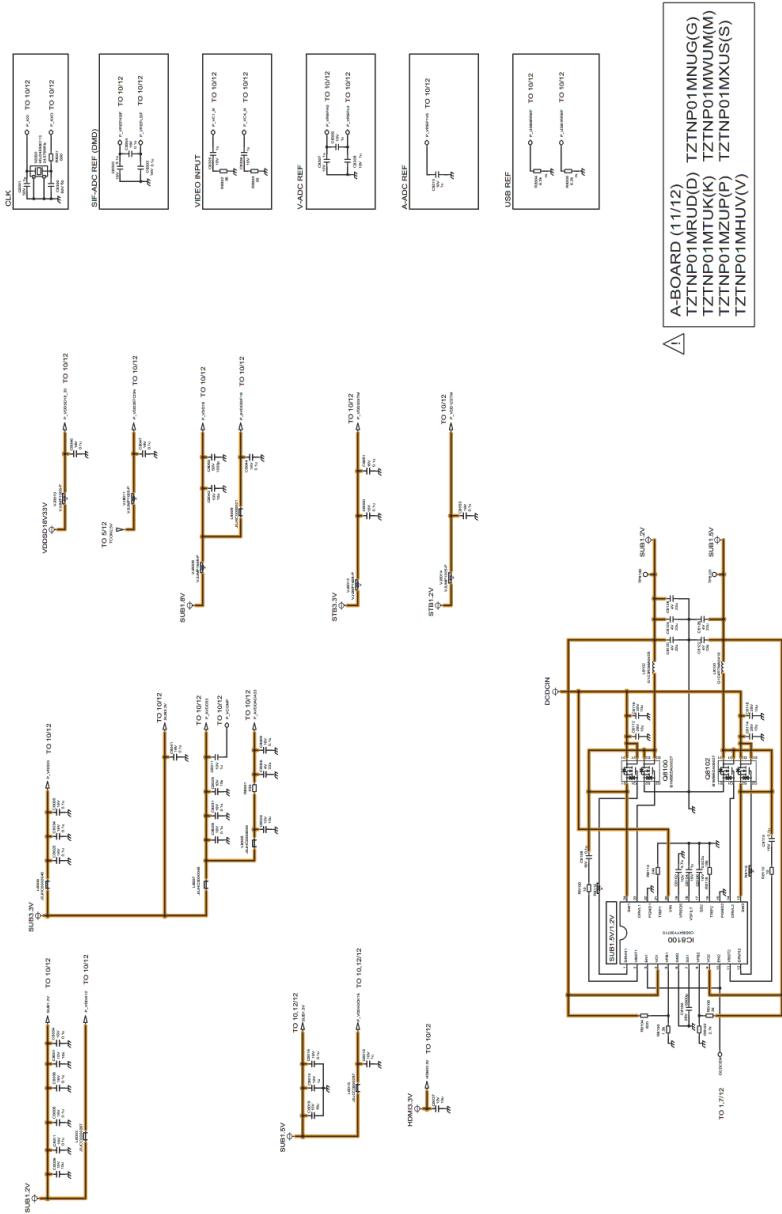






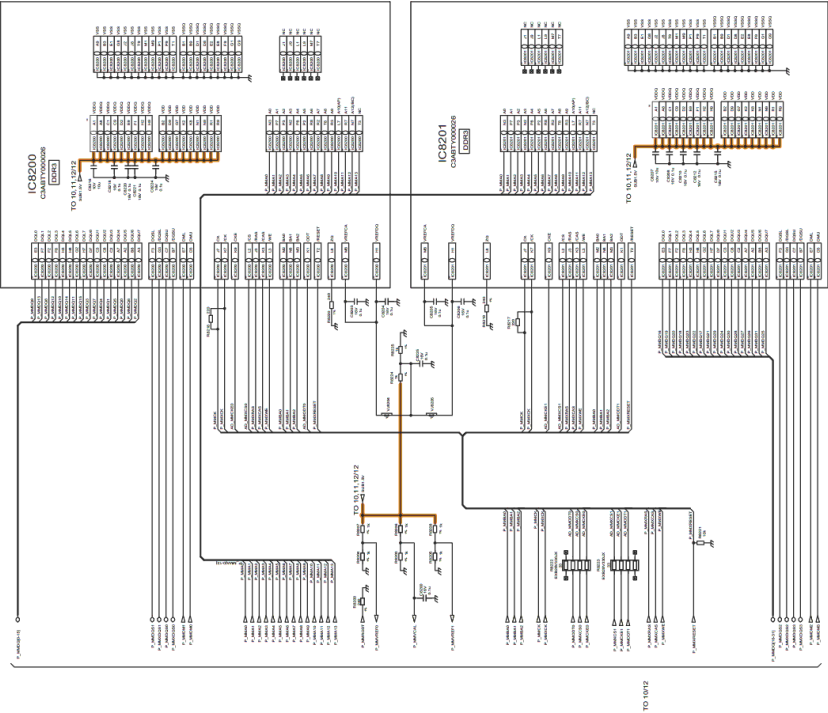
73 74 75 76 77 78 79 80 81





A-BOARD (11/12)
TZTNP01MRUD(D)
TZTNP01MTUK(K)
TZTNP01MWUM(M)
TZTNP01MZUP(P)
TZTNP01MHUV(V)

⚠
A-BOARD (12/12)
TZTNP01MRUD(D)
TZTNP01MTUK(K)
TZTNP01MZUP(P)
TZTNP01MHUV(V)
TZTNP01MNUG(G)
TZTNP01MWUM(M)
TZTNP01MXUS(S)



108

107

106

105

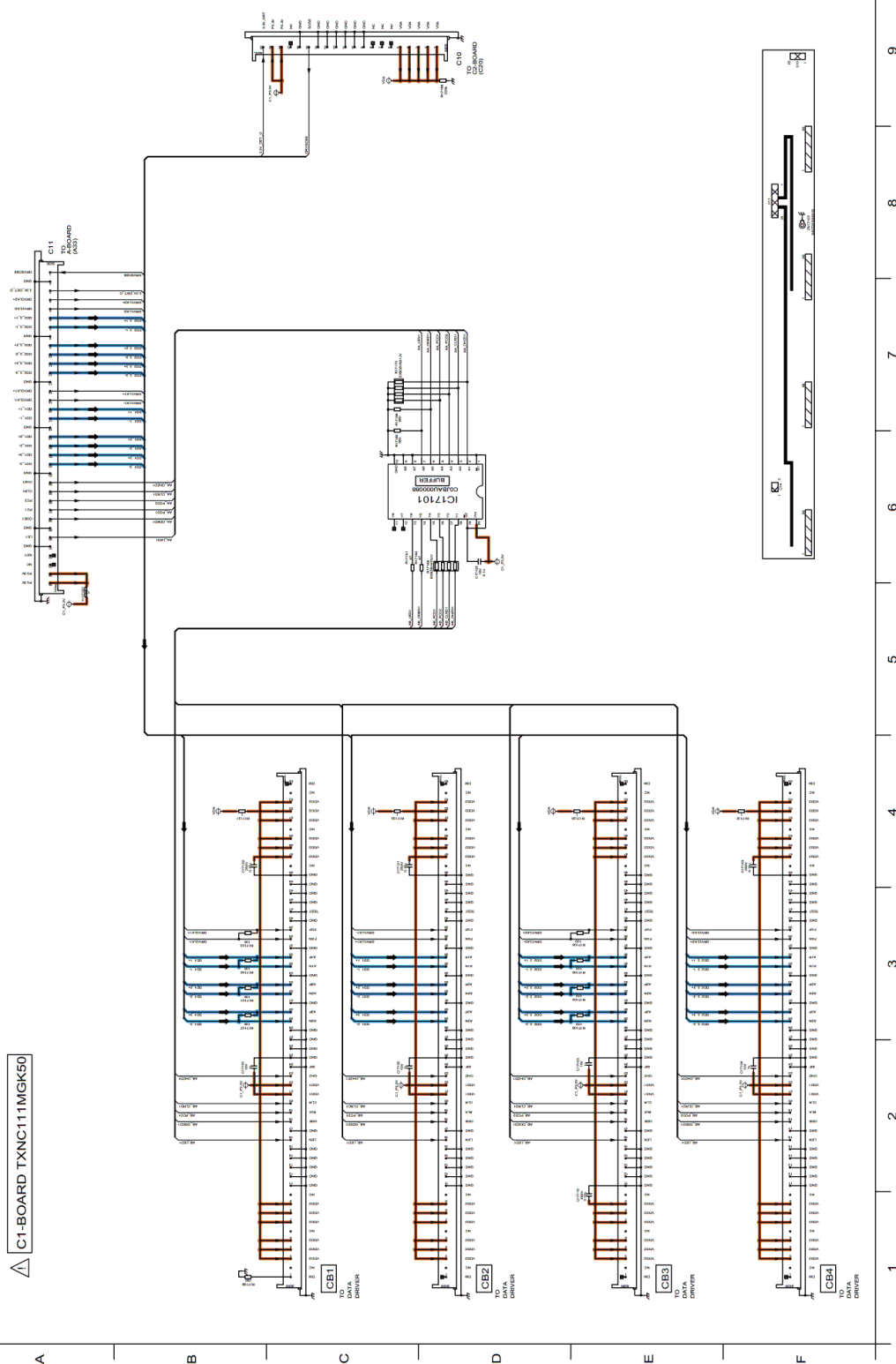
104

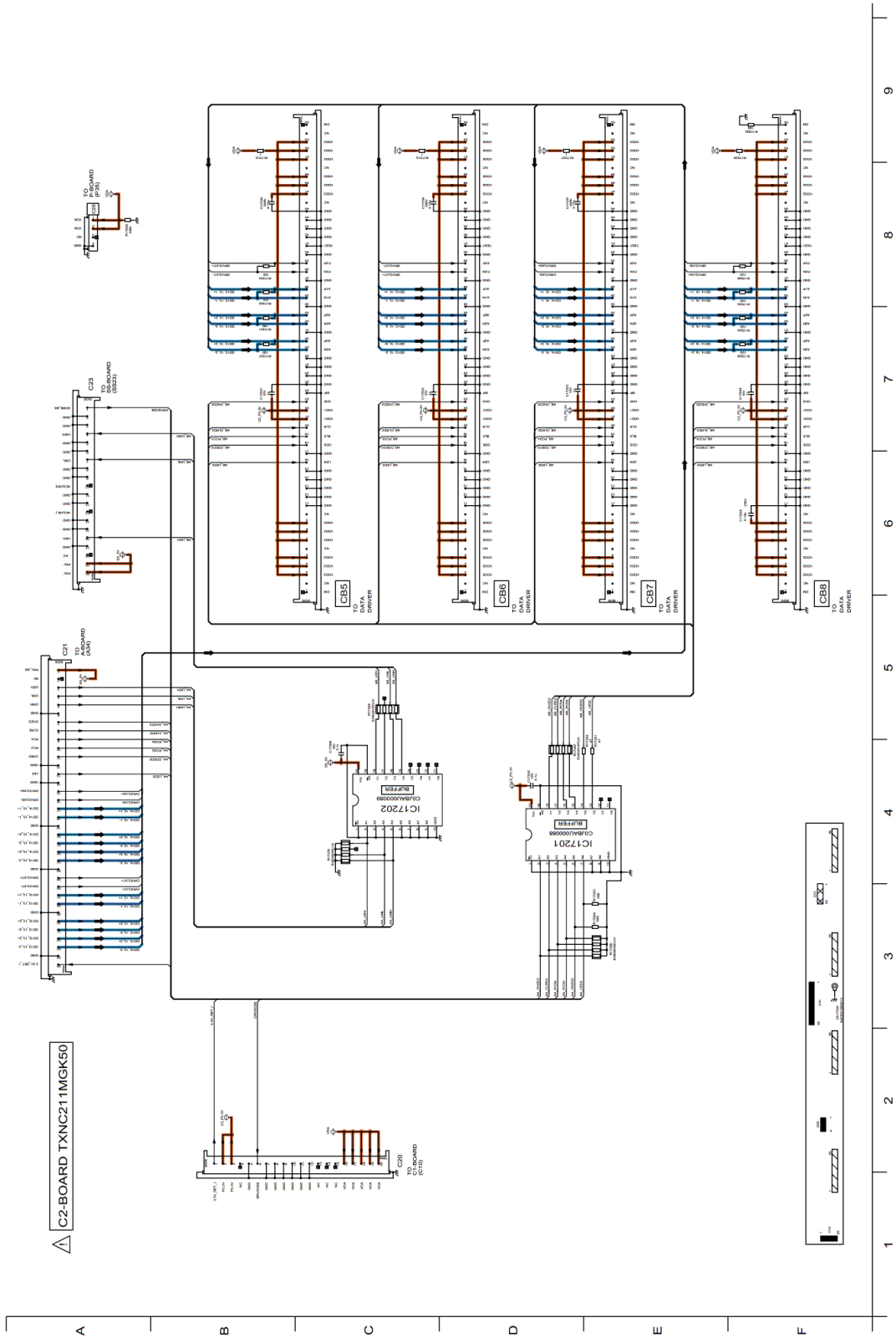
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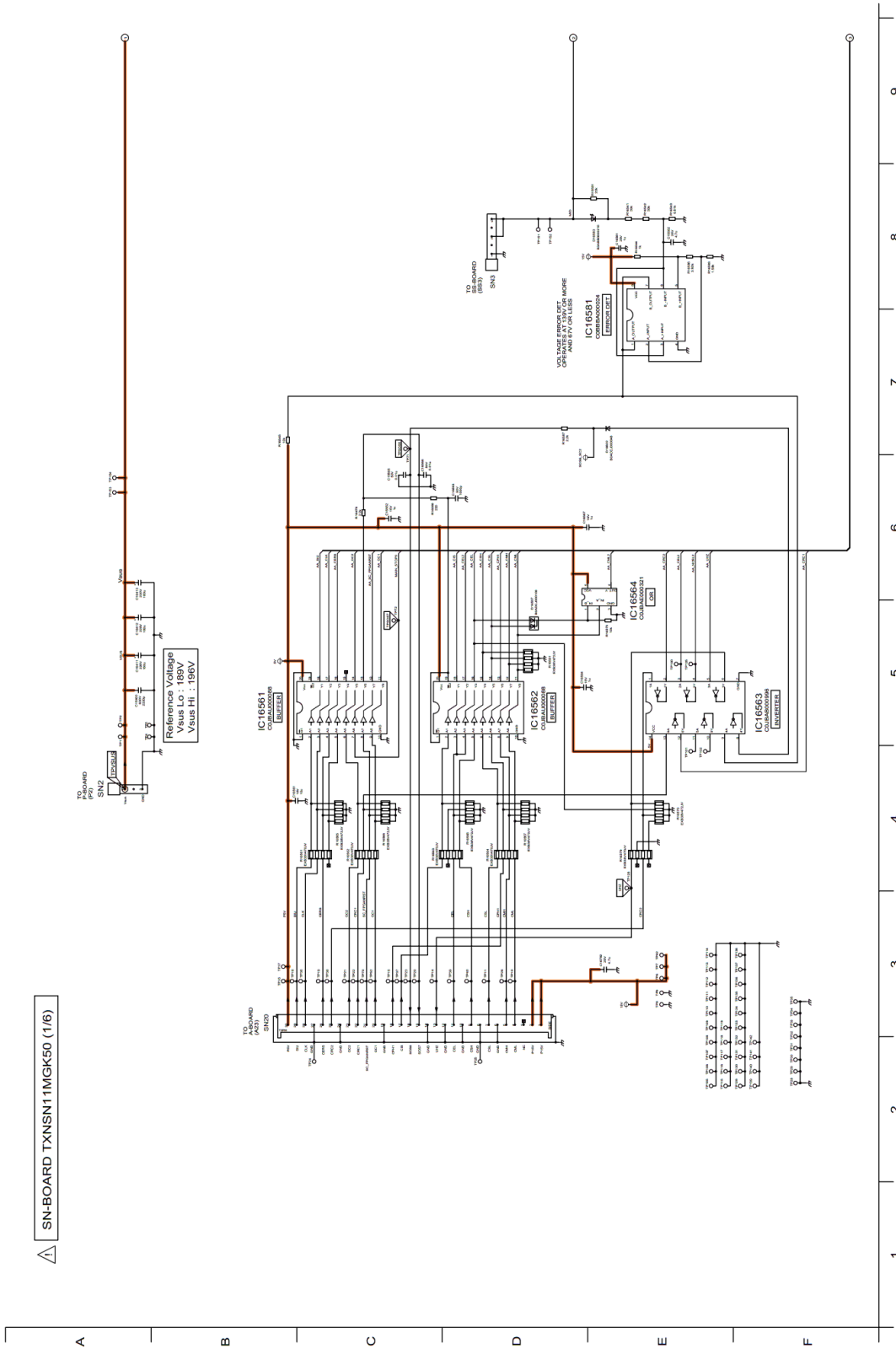
102

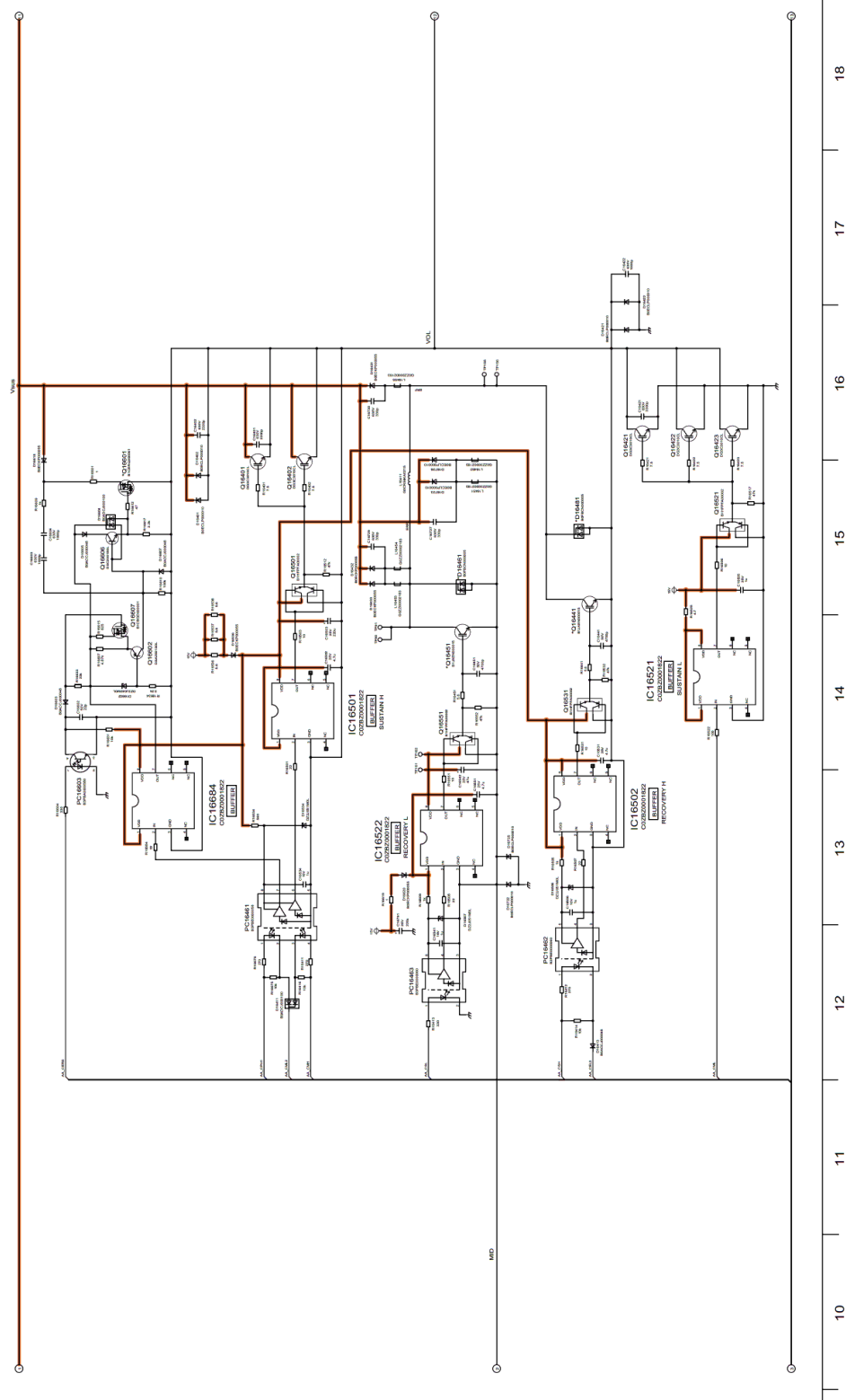
101

100

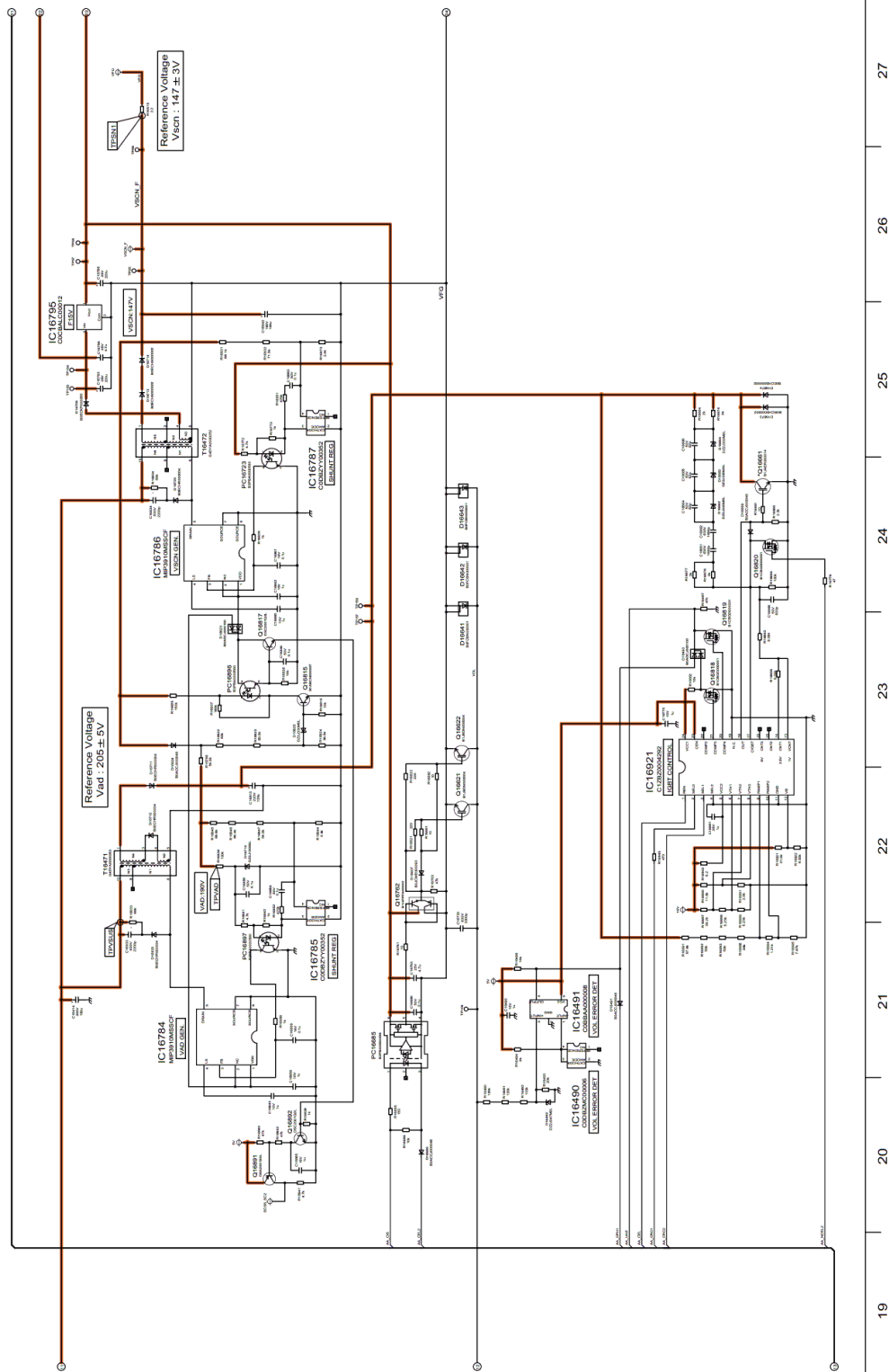


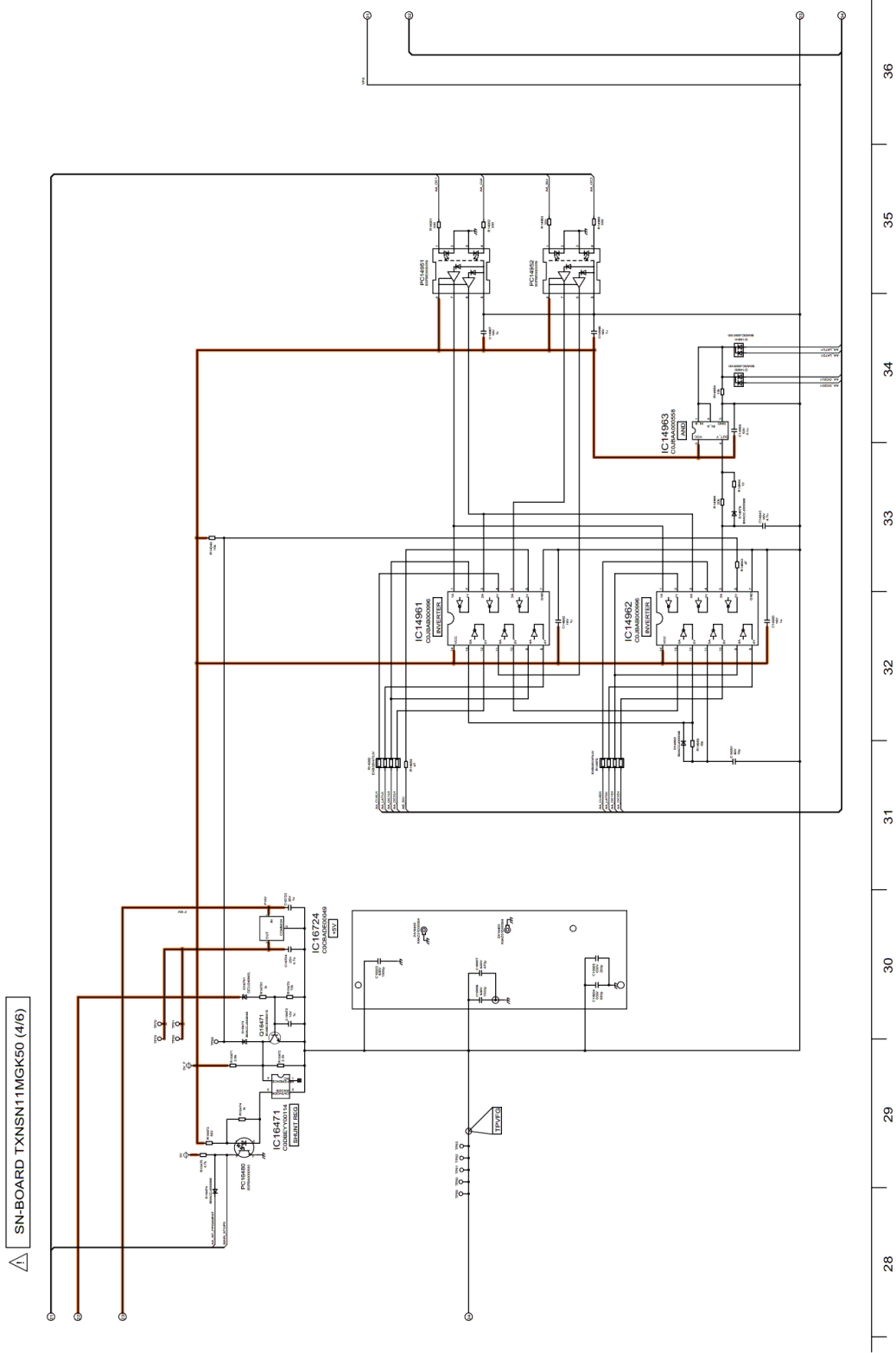


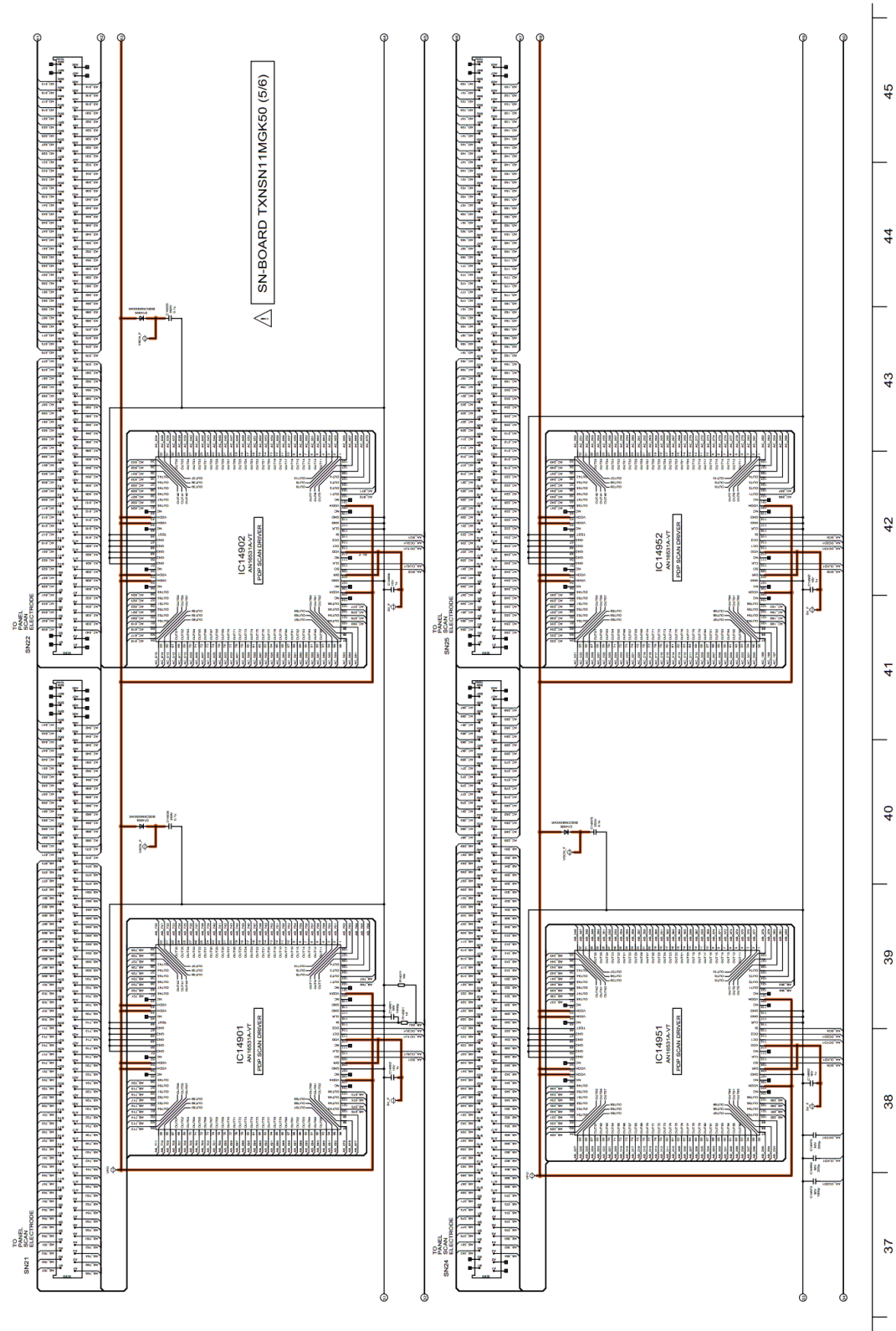


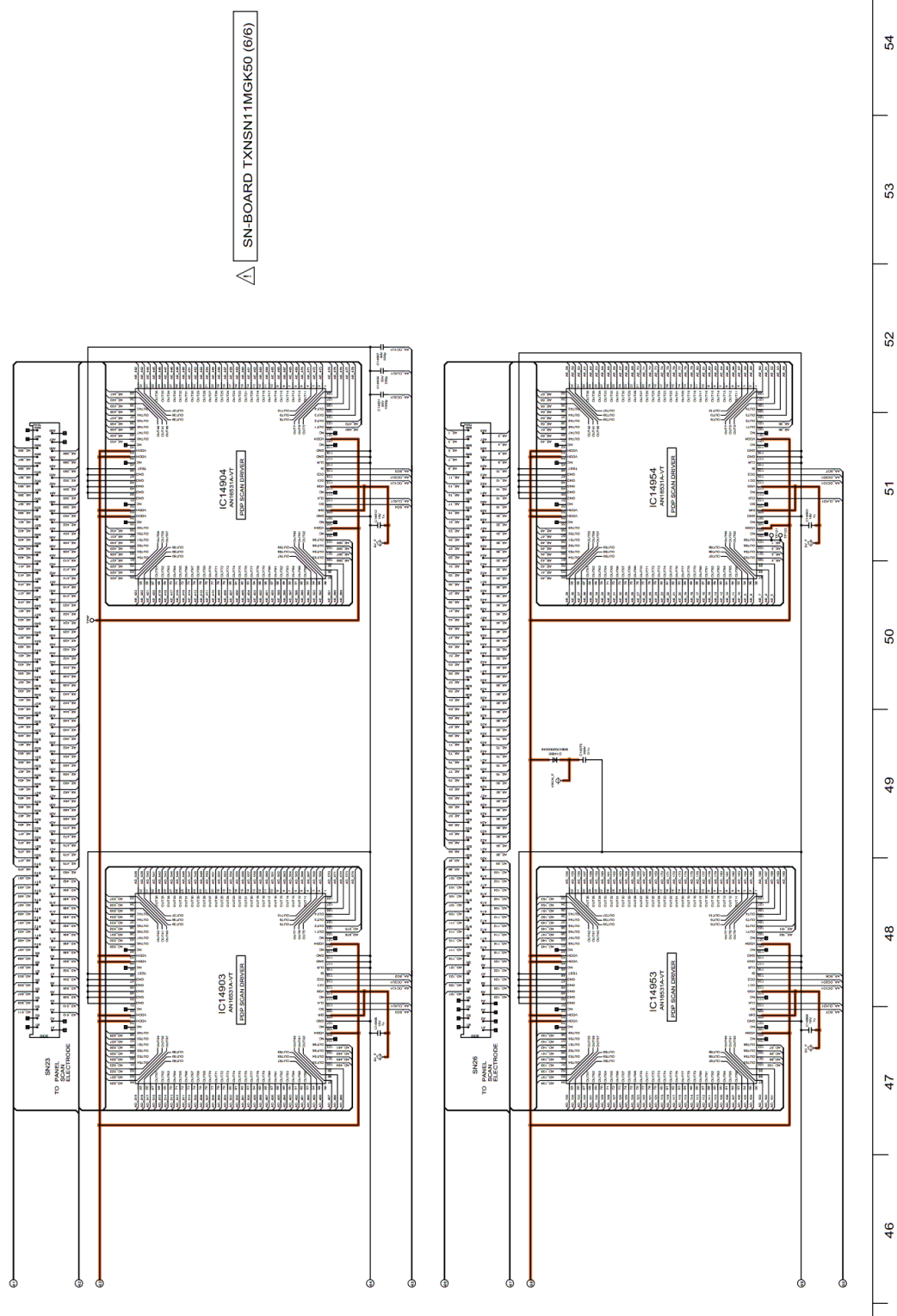


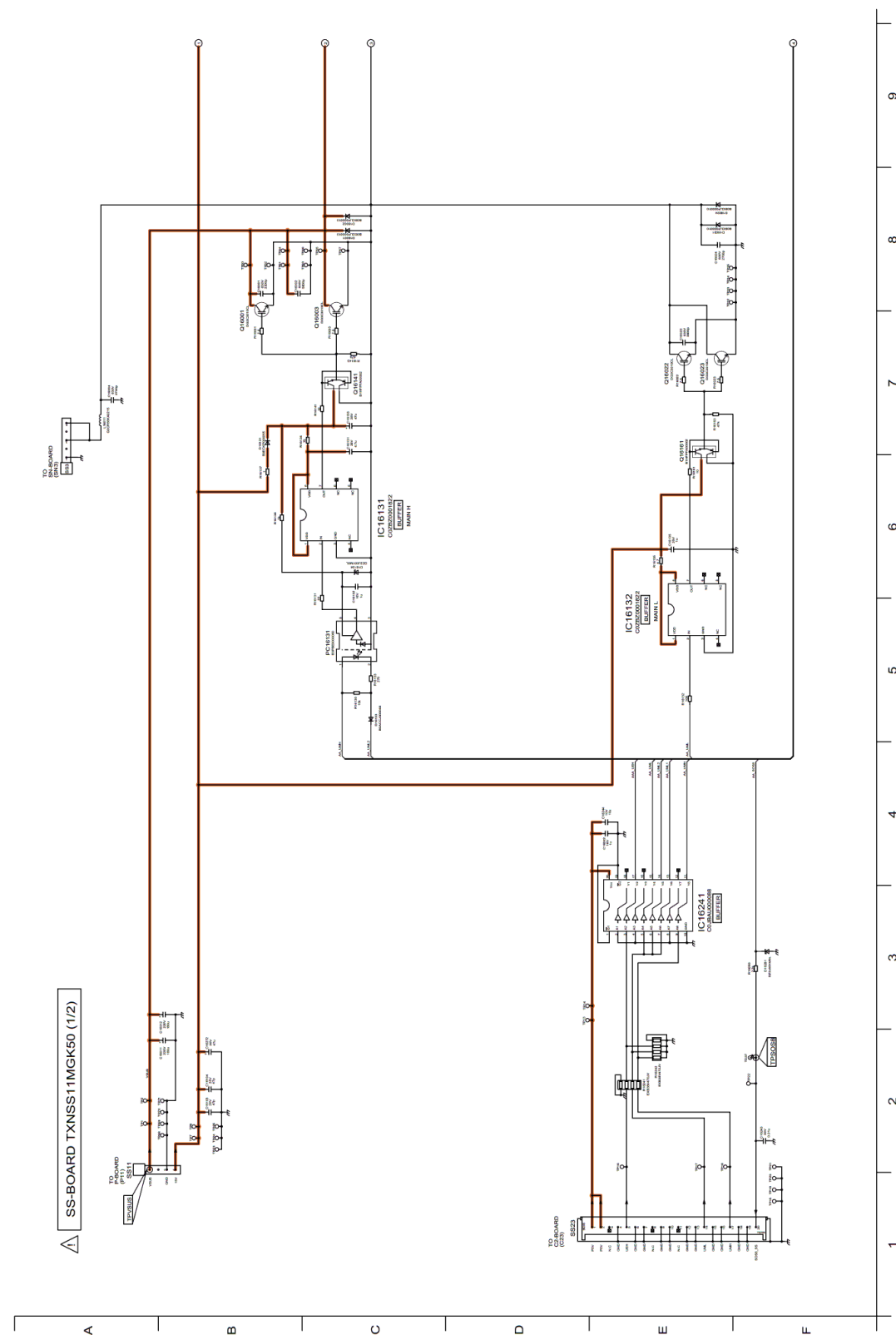
△ SN-BOARD TXNSN11MGK50 (3/6)



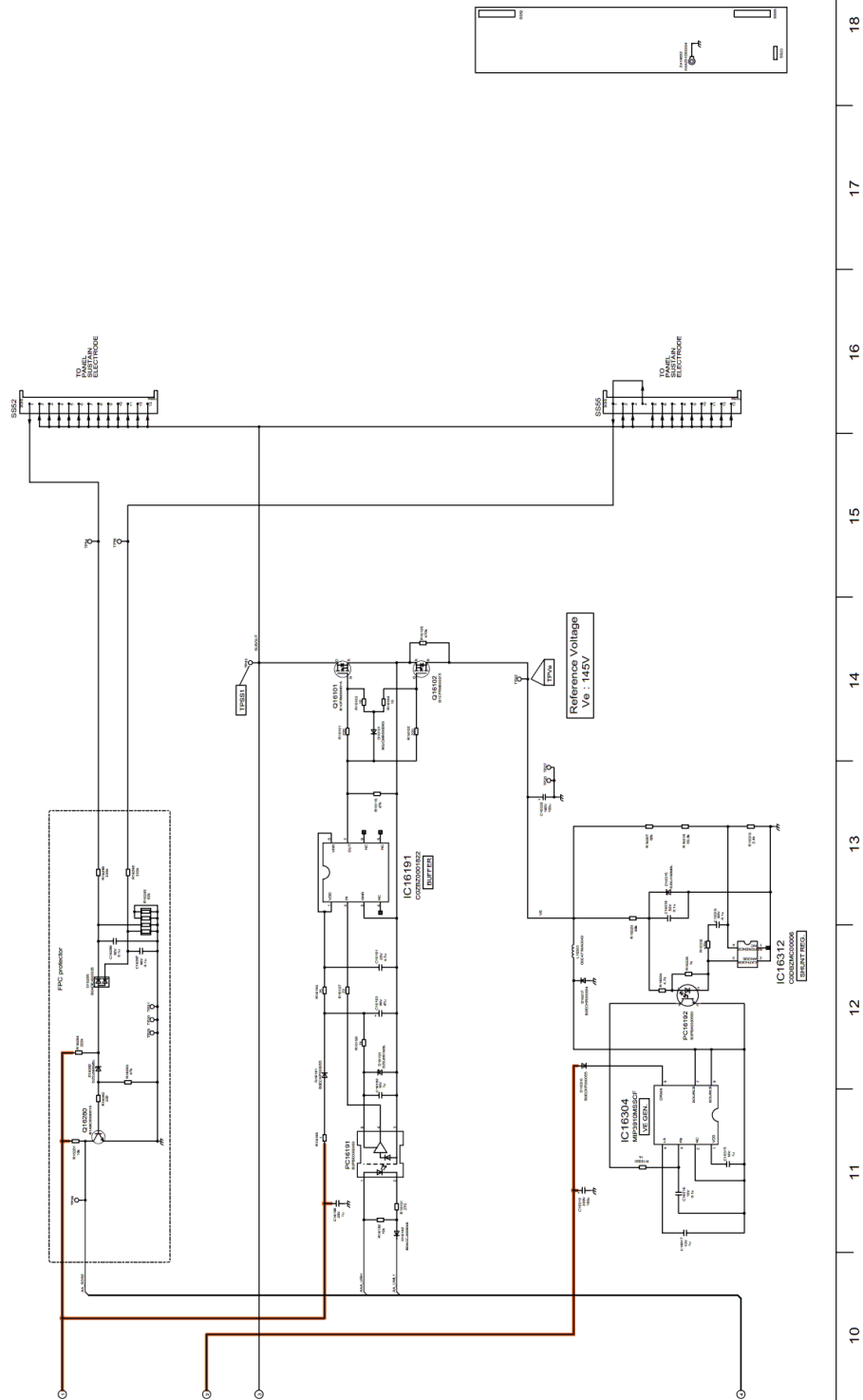


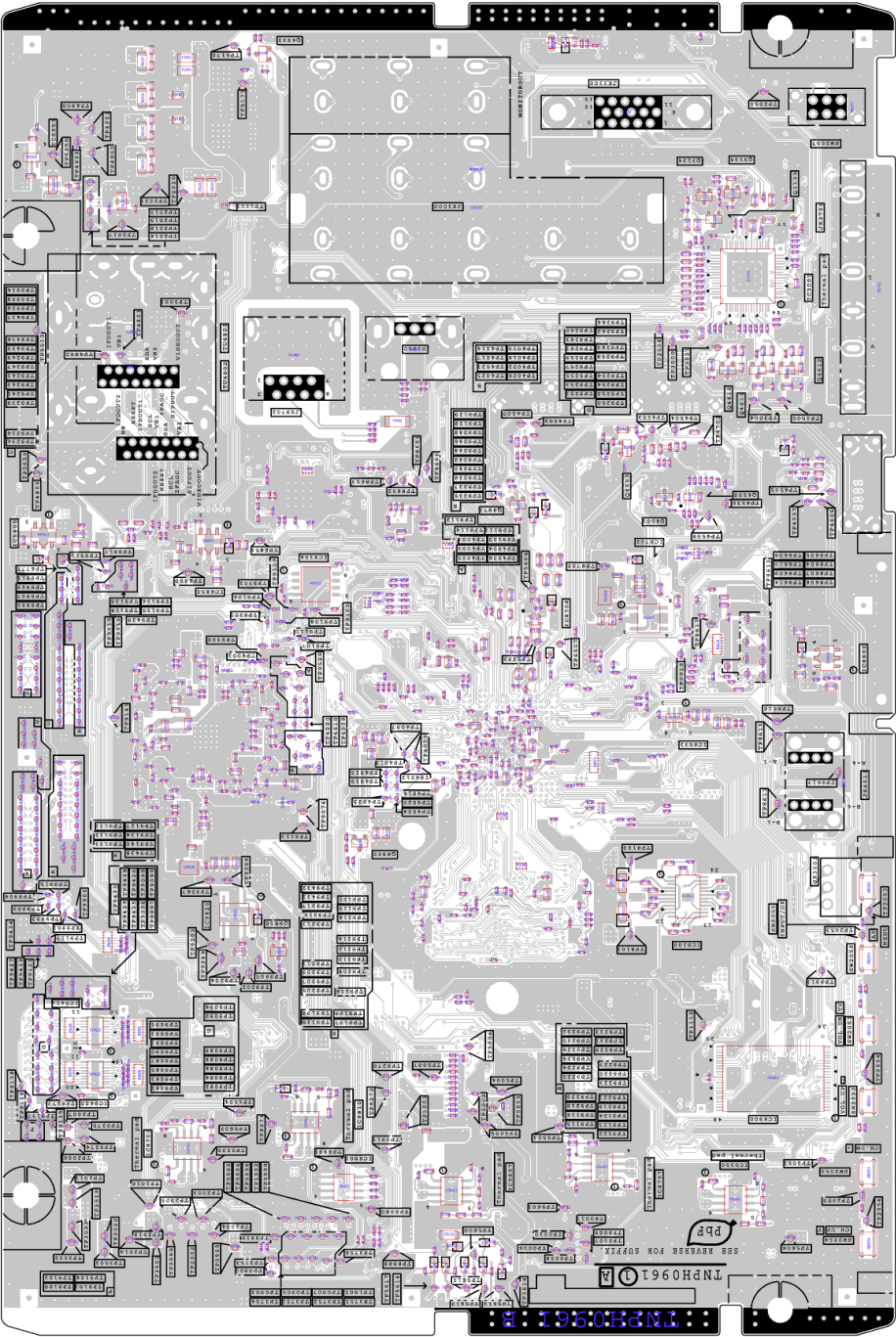


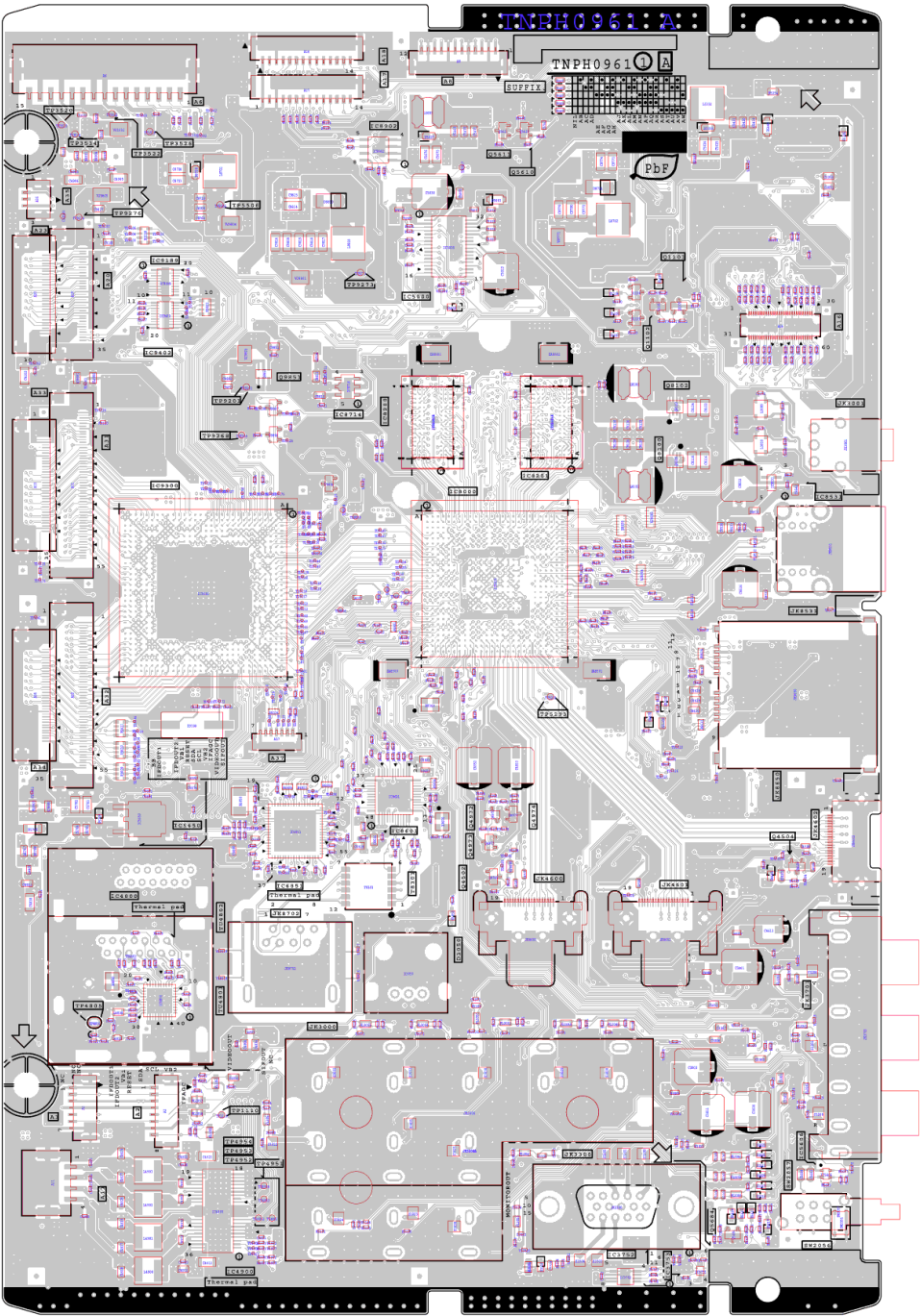


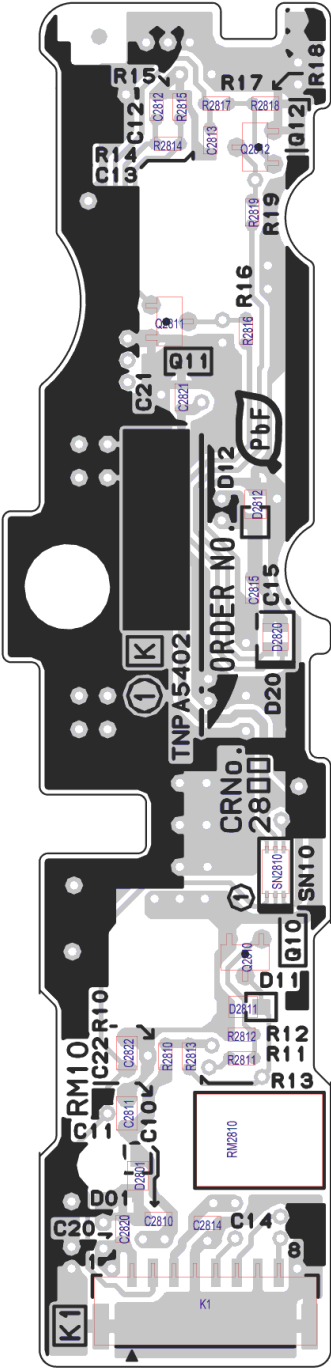
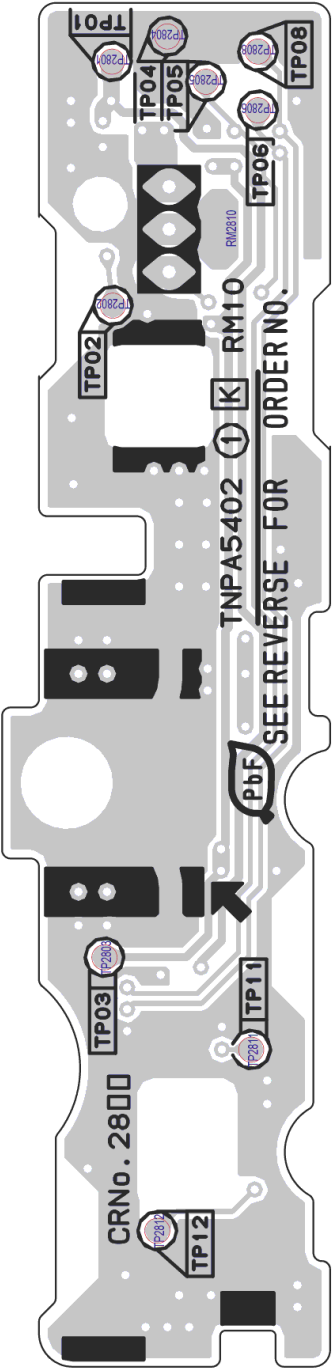


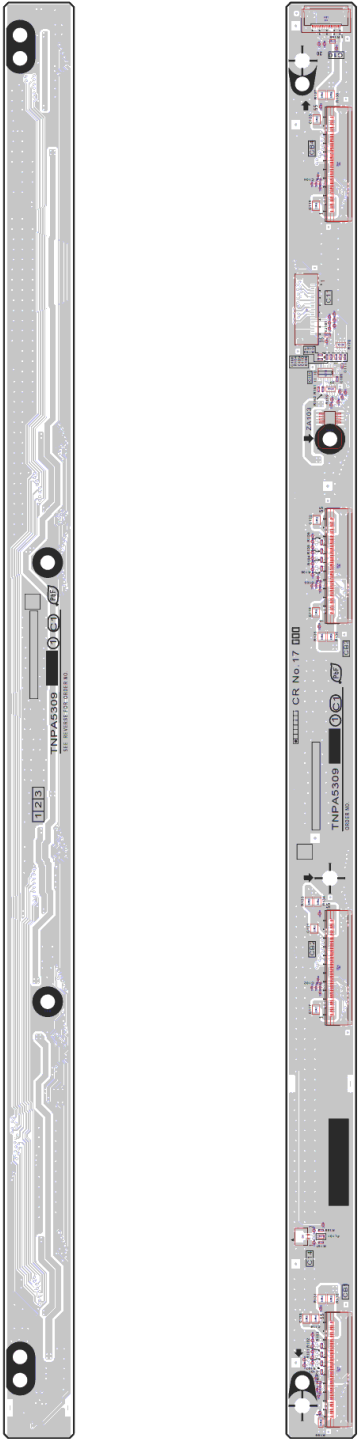
SS-BOARD TXNSS11MGK50 (2/2)

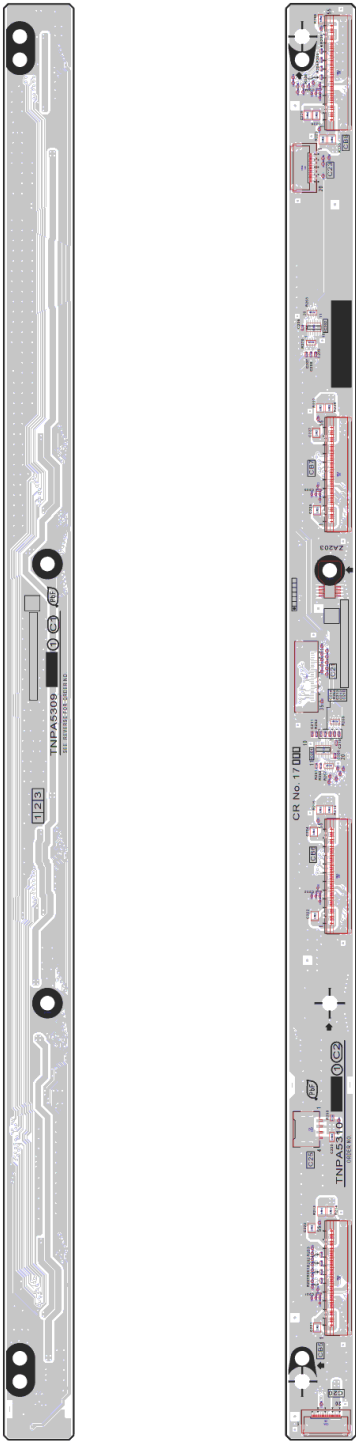


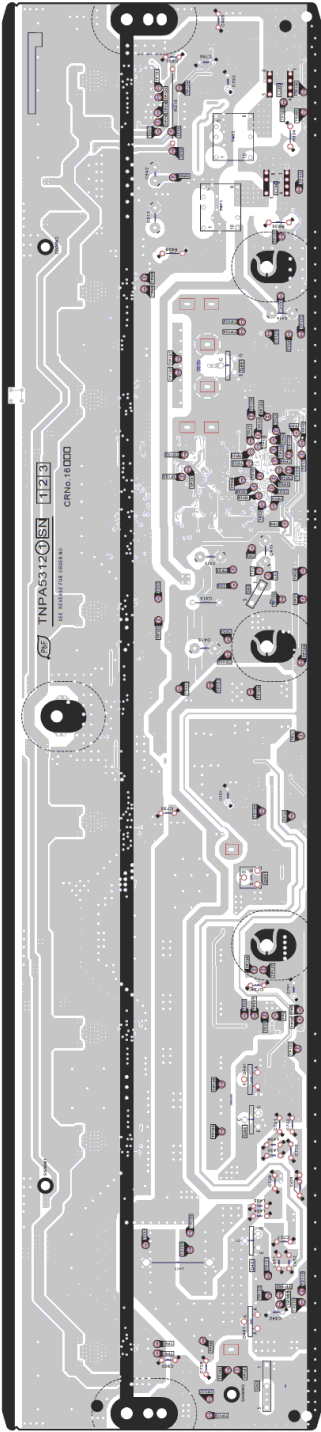


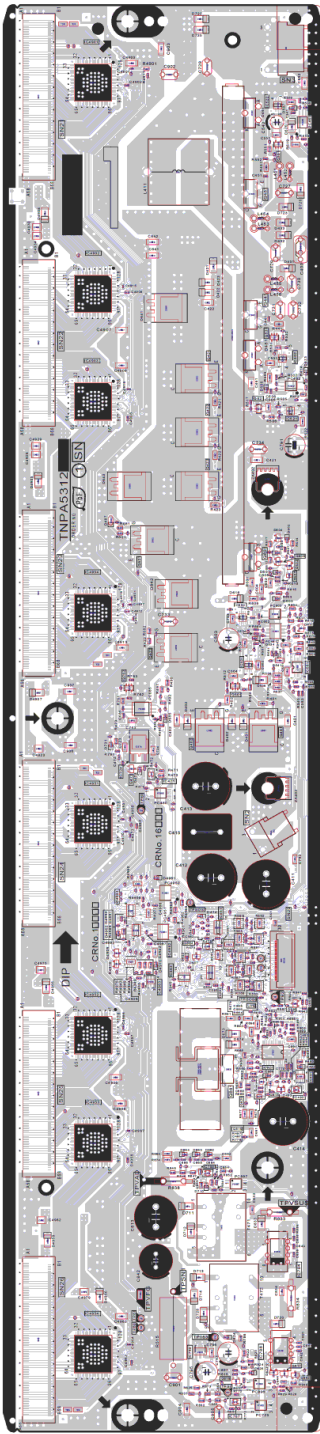


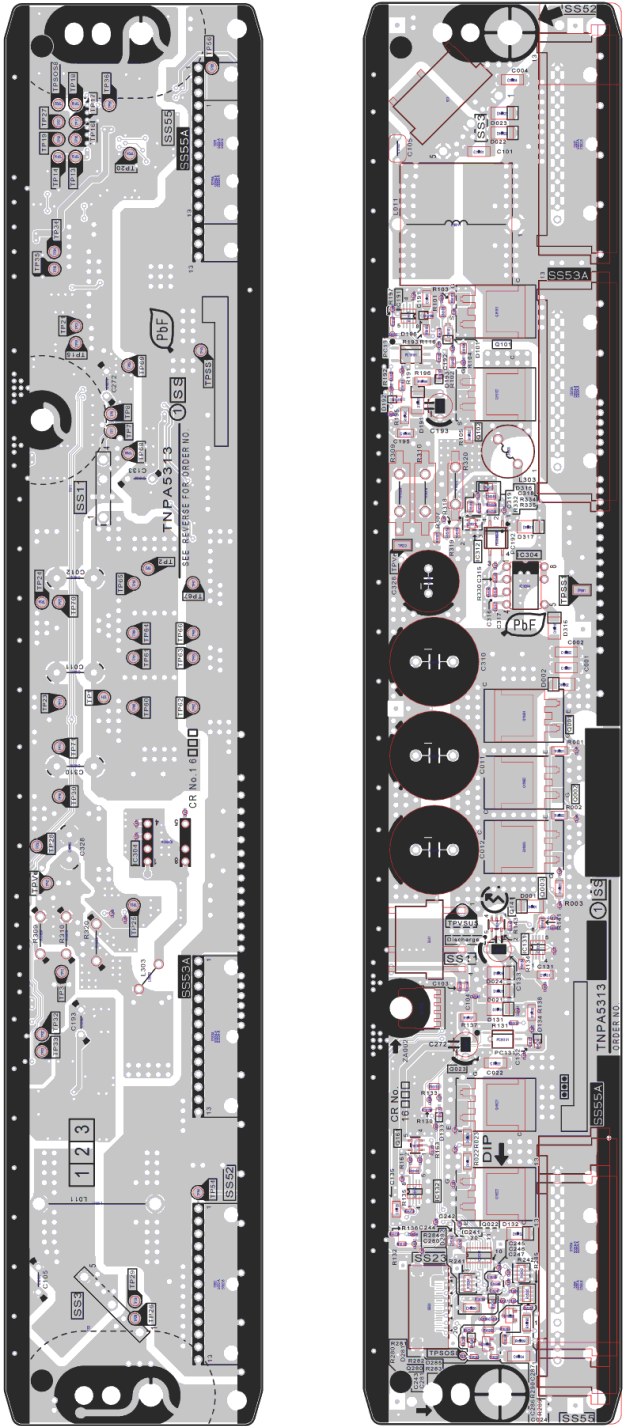












Model No. : TH-P50X30D/G/K/M/P/S/V Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	PCB	TZTNP01MHUV	A-PRINT COMPLETE	1	(V) (RTL) PAVCTH
	PCB	TZTNP01MNUG	A-PRINT COMPLETE	1	(G) (RTL) PAVCTH
	PCB	TZTNP01MRUD	A-PRINT COMPLETE	1	(D) (RTL) PAVCTH
	PCB	TZTNP01MTUK	A-PRINT COMPLETE	1	(K) (RTL) PAVCTH
	PCB	TZTNP01MWUM	A-PRINT COMPLETE	1	(M) (RTL) PAVCTH
	PCB	TZTNP01MXUS	A-PRINT COMPLETE	1	(S) (RTL) PAVCTH
	PCB	TZTNP01MZUP	A-PRINT COMPLETE	1	(P) (RTL) PAVCTH
	PCB	NOAE5JK00007	CIRCUIT BOARD P	1	PAVCTH
	PCB	TXNC111MGK50	C1-PRINT COMPLETE	1	(RTL) PAVCTH
	PCB	TXNC211MGK50	C2-PRINT COMPLETE	1	(RTL) PAVCTH
	PCB	TXNSN11MGK50	SN-PRINT COMPLETE	1	(RTL) PAVCTH
	PCB	TXNSS11MGK50	SS-PRINT COMPLETE	1	(RTL) PAVCTH
	PCB	TXN/K1NNUA42	K-PRINT COMPLETE	1	(RTL) PAVCTH
	A2	K1KY08AA0719	8P CONNECTOR	1	
	A6	K1KY15B00006	15P CONNECTOR	1	PAVCTH
	A11	K1KY04B00013	4P CONNECTOR	1	PAVCTH
	A17	K1KA14A00248	14P CONNECTOR	1	
	A23	K1MY30BA0345	30P CONNECTOR	1	
	A33	K1MY35BA0345	35P CONNECTOR	1	
	A34	K1MY35BA0345	35P CONNECTOR	1	
	A35	K1KY03AA0719	3P CONNECTOR	1	
	C10	K1MY20BA0345	20P CONNECTOR	1	
	C11	K1MY35BA0345	35P CONNECTOR	1	
	C20	K1MY20BA0345	20P CONNECTOR	1	
	C21	K1MY35BA0345	35P CONNECTOR	1	
	C23	K1MY20BA0345	20P CONNECTOR	1	
	C25	K1KY04B00013	4P CONNECTOR	1	PAVCTH
	C027	FLJ1A106A043	C 10UF, 10V	1	
	C1052	FLG1A105A047	C 1UF 10V	1	
	C1053	FLG1C104A077	C 0.1UF 16V	1	
	C1090	FLG1H1020008	C 1000PF 50V	1	
	C1091	FLG1H1020008	C 1000PF 50V	1	
	C1092	FLG1H1020008	C 1000PF 50V	1	
	C1093	FLG1H1020008	C 1000PF 50V	1	
	C1101	FLG1C104A077	C 0.1UF 16V	1	
	C1105	FLG1E1030005	C 0.01UF 25V	1	
	C1110	FLG1C104A077	C 0.1UF 16V	1	
	C2050	FLJ1H102A721	C 1000pF, 50V	1	
	C2810	ECJ1VB1H103K	C 0.01UF, 50V	1	
	C2811	FLJ1A106A087	C 10UF, 10V	1	
	C2815	ECJ1VB1H103K	C 0.01UF, 50V	1	
	C2821	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
	C3005	FLJ1A106A043	C 10UF, 10V	1	
	C3006	FLJ1A106A043	C 10UF, 10V	1	
	C3007	FLJ1A106A043	C 10UF, 10V	1	
	C3011	FLG1C104A077	C 0.1UF 16V	1	
	C3023	FLJ1A106A043	C 10UF, 10V	1	
	C3026	FLJ1A106A043	C 10UF, 10V	1	
	C3028	FLJ1A106A043	C 10UF, 10V	1	
	C3032	FLG1C104A077	C 0.1UF 16V	1	
	C3033	FLJ1A106A043	C 10UF, 10V	1	
	C3034	FLJ1A106A043	C 10UF, 10V	1	
	C3035	FLG1C104A077	C 0.1UF 16V	1	
	C3036	ECJ1VB1A105K	C 1UF, 10V	1	
	C3037	ECJ1VB1A105K	C 1UF, 10V	1	
	C3038	ECJ1VB1A105K	C 1UF, 10V	1	
	C3039	ECJ1VB1A105K	C 1UF, 10V	1	
	C3045	ECJ1VB1A105K	C 1UF, 10V	1	
	C3046	ECJ1VB1A105K	C 1UF, 10V	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C3047	FLJ1A106A043	C 10UF, 10V	1	
	C3048	ECJ1VB1A105K	C 1UF, 10V	1	
	C3049	ECJ1VB1A105K	C 1UF, 10V	1	
	C3053	FLJ1A106A043	C 10UF, 10V	1	
	C3054	FLG1C104A077	C 0.1UF 16V	1	
	C3065	FLG1H5610004	C 560 pF 50 V	1	PAVCTH
	C3066	FLG1H5610004	C 560 pF 50 V	1	PAVCTH
	C3067	FLG1E333A091	C 0.033UF 25V	1	
	C3068	FLG1E333A091	C 0.033UF 25V	1	
	C3130	FLG1H5610004	C 560 pF 50 V	1	PAVCTH
	C3131	FLG1H5610004	C 560 pF 50 V	1	PAVCTH
	C3134	FLG1H5610004	C 560 pF 50 V	1	PAVCTH
	C3135	FLG1H5610004	C 560 pF 50 V	1	PAVCTH
	C3157	FLG1C104A077	C 0.1UF 16V	1	
	C3201	FLG1H5610004	C 560 pF 50 V	1	PAVCTH
	C3301	FLJ1A106A043	C 10UF, 10V	1	
	C3302	FLJ1A106A043	C 10UF, 10V	1	
	C3303	FLJ1A106A043	C 10UF, 10V	1	
	C3704	FLG1H5610004	C 560 pF 50 V	1	PAVCTH
	C3753	FLG1C104A077	C 0.1UF 16V	1	
	C4500	ECJ1VB1A105K	C 1UF, 10V	1	
	C4505	ECJ1VB1A105K	C 1UF, 10V	1	
	C4619	ECJ1VB1A105K	C 1UF, 10V	1	
	C4622	ECJ1VB1A105K	C 1UF, 10V	1	
	C4625	ECJ1VB1A105K	C 1UF, 10V	1	
	C4802	FLJ1A106A043	C 10UF, 10V	1	
	C4805	FLG1H220A565	C 22PF, 50V	1	(G) (S)
	C4806	FLG1C104A077	C 0.1UF 16V	1	(G) (S)
	C4810	FLG1A105A047	C 1UF 10V	1	
	C4811	FLG1A105A047	C 1UF 10V	1	
	C4813	FLJ1A106A043	C 10UF, 10V	1	
	C4816	FLG1C104A077	C 0.1UF 16V	1	(G) (S)
	C4817	FLG1C104A077	C 0.1UF 16V	1	(G) (S)
	C4820	FLG1H330A565	C 33PF, 50V	1	
	C4821	FLG1H330A565	C 33PF, 50V	1	
	C4834	FLG1C104A077	C 0.1UF 16V	1	
	C4836	FLJ1A106A043	C 10UF, 10V	1	
	C4837	FLG1H220A565	C 22PF, 50V	1	
	C4901	FLG1H221A571	C 220PF, 50V	1	
	C4902	FLG1H221A571	C 220PF, 50V	1	
	C4903	FLG1H221A571	C 220PF, 50V	1	
	C4904	FLG1H221A571	C 220PF, 50V	1	
	C4907	FLG1H1020008	C 1000PF 50V	1	
	C4908	FLG1H1020008	C 1000PF 50V	1	
	C4910	FLG1H1020008	C 1000PF 50V	1	
	C4911	FLJ1E105A231	C 1 UF 25V	1	
	C4912	FLK1E106A136	C 10UF, 25V	1	
	C4913	FLK1E106A136	C 10UF, 25V	1	
	C4914	FLH1H104A970	C 0.1UF, , 50V	1	
	C4915	FLJ1E105A231	C 1 UF 25V	1	
	C4916	FLH1H104A970	C 0.1UF, , 50V	1	
	C4918	FLJ1E4740001	C 0.47UF, 25V	1	PAVCTH
	C4919	FLJ1E4740001	C 0.47UF, 25V	1	PAVCTH
	C4920	FLG1H1020008	C 1000PF 50V	1	
	C4921	FLJ1E105A231	C 1 UF 25V	1	
	C4922	FLK1E106A136	C 10UF, 25V	1	
	C4923	FLK1E106A136	C 10UF, 25V	1	
	C4924	FLH1H104A970	C 0.1UF, , 50V	1	
	C4925	FLJ1E105A231	C 1 UF 25V	1	
	C4926	FLH1H104A970	C 0.1UF, , 50V	1	
	C4928	FLJ1E4740001	C 0.47UF, 25V	1	PAVCTH
	C4929	FLJ1E4740001	C 0.47UF, 25V	1	PAVCTH

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C4930	FlG1C104A077	C 0.1UF 16V	1	
	C4931	FlG1C104A077	C 0.1UF 16V	1	
	C4941	FlJ1A106A043	C 10UF, 10V	1	
	C4942	FlJ1A106A043	C 10UF, 10V	1	
	C4952	F2H1A101A040	C 100UF, 10V	1	PAVCTH
	C4953	F2H1A101A040	C 100UF, 10V	1	PAVCTH
	C4954	FlG1E333A091	C 0.033UF 25V	1	
	C4955	FlG1E333A091	C 0.033UF 25V	1	
	C5000	FlG1E1030005	C 0.01UF 25V	1	
	C5002	FlJ1E105A231	C 1 UF 25V	1	
	C5003	FlH1C105A145	C 1 uF 16 V	1	
	C5011	FlG1C104A077	C 0.1UF 16V	1	
	C5012	EEH1C101UP	C 100PF, J, 16V	1	
	C5013	ECJ1VB1A105K	C 1UF, 10V	1	
	C5014	ECJ1VB1A105K	C 1UF, 10V	1	
	C5015	ECJ1VB1A105K	C 1UF, 10V	1	
	C5016	ECJ1VB1A105K	C 1UF, 10V	1	
	C5017	ECJ1VB1A105K	C 1UF, 10V	1	
	C5018	FlG1C104A077	C 0.1UF 16V	1	
	C5020	FlG1E1030005	C 0.01UF 25V	1	
	C5255	ECJ1VB1A105K	C 1UF, 10V	1	
	C5256	ECJ1VB1A105K	C 1UF, 10V	1	
	C5418	FlG1C223A081	C 0.022UF, 16V	1	
	C5419	FlJ1A106A043	C 10UF, 10V	1	
	C5420	FlJ1A106A043	C 10UF, 10V	1	
	C5422	FlG1A333A032	CO.033UF, 10V	1	
	C5423	FlG1H5610004	C 560 pF 50 V	1	PAVCTH
	C5426	FlK1E106A136	C 10UF, 25V	1	
	C8001	FlJ1A106A087	C 10UF, 10V	1	
	C8004	FlG1C104A077	C 0.1UF 16V	1	
	C8005	FlG1C104A077	C 0.1UF 16V	1	
	C8006	FlG1C104A077	C 0.1UF 16V	1	
	C8009	FlJ1A106A087	C 10UF, 10V	1	
	C8011	FlG1C104A077	C 0.1UF 16V	1	
	C8014	FlG1A105A047	C 1UF 10V	1	
	C8015	FlG1A105A047	C 1UF 10V	1	
	C8016	FlG1C104A077	C 0.1UF 16V	1	
	C8019	FlJ1A106A087	C 10UF, 10V	1	
	C8023	FlG1C104A077	C 0.1UF 16V	1	
	C8024	FlJ1A106A087	C 10UF, 10V	1	
	C8025	FlJ1A106A087	C 10UF, 10V	1	
	C8026	FlJOG2260001	C 22 UF 4 V	1	
	C8028	FlG1C104A077	C 0.1UF 16V	1	
	C8029	FlG1C104A077	C 0.1UF 16V	1	
	C8031	FlG1C104A077	C 0.1UF 16V	1	
	C8034	FlG1C104A077	C 0.1UF 16V	1	
	C8035	FlG1C104A077	C 0.1UF 16V	1	
	C8037	FlJ1A106A087	C 10UF, 10V	1	
	C8041	FlG1C104A077	C 0.1UF 16V	1	
	C8042	FlJ1A106A087	C 10UF, 10V	1	
	C8044	FlG1C104A077	C 0.1UF 16V	1	
	C8046	FlG1C104A077	C 0.1UF 16V	1	
	C8047	FlG1C104A077	C 0.1UF 16V	1	
	C8050	FlG1C104A077	C 0.1UF 16V	1	
	C8051	FlG1C104A077	C 0.1UF 16V	1	
	C8053	FlG1C104A077	C 0.1UF 16V	1	
	C8054	FlG1C104A077	C 0.1UF 16V	1	
	C8055	FlG1H1020008	C 1000PF 50V	1	
	C8100	FlG1E682A123	C 6800 pF 25 V	1	
	C8102	FlJ1A475A087	C 4.7UF, 10V	1	
	C8104	FlH1C105A145	C 1 uF 16 V	1	
	C8106	FlG1C223A081	C 0.022UF, 16V	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C8108	FlG1C104A077	C 0.1UF 16V	1	
	C8110	FlG1C104A077	C 0.1UF 16V	1	
	C8112	FlK1E106A136	C 10UF, 25V	1	
	C8114	FlK1E106A136	C 10UF, 25V	1	
	C8116	FlK1E106A136	C 10UF, 25V	1	
	C8118	FlK1E106A136	C 10UF, 25V	1	
	C8120	FlJ0G2260001	C 22 UF 4 V	1	
	C8122	FlJ0G2260001	C 22 UF 4 V	1	
	C8124	FlJ0G2260001	C 22 UF 4 V	1	
	C8126	FlJ0G2260001	C 22 UF 4 V	1	
	C8128	FlJ0G2260001	C 22 UF 4 V	1	
	C8200	FlG1C104A077	C 0.1UF 16V	1	
	C8203	FlG1C104A077	C 0.1UF 16V	1	
	C8204	FlG1C104A077	C 0.1UF 16V	1	
	C8205	FlG1C104A077	C 0.1UF 16V	1	
	C8206	FlG1C104A077	C 0.1UF 16V	1	
	C8207	FlJ1A106A087	C 10UF, 10V	1	
	C8208	FlG1C104A077	C 0.1UF 16V	1	
	C8210	FlG1C104A077	C 0.1UF 16V	1	
	C8212	FlG1C104A077	C 0.1UF 16V	1	
	C8215	FlG1C104A077	C 0.1UF 16V	1	
	C8216	FlJ1A106A087	C 10UF, 10V	1	
	C8218	FlG1C104A077	C 0.1UF 16V	1	
	C8220	FlG1C104A077	C 0.1UF 16V	1	
	C8221	FlG1C104A077	C 0.1UF 16V	1	
	C8224	FlG1C104A077	C 0.1UF 16V	1	
	C8225	FlG1C104A077	C 0.1UF 16V	1	
	C8300	FlG1H6R0A732	C 6.0PF, 50V	1	
	C8301	FlG1H7R0A732	C 7PF, 50V	1	
	C8302	FlG1C104A077	C 0.1UF 16V	1	
	C8303	FlG1C104A077	C 0.1UF 16V	1	
	C8304	FlG1C104A077	C 0.1UF 16V	1	
	C8305	FlG1A105A047	C 1UF 10V	1	
	C8306	FlG1A105A047	C 1UF 10V	1	
	C8307	FlG1A105A047	C 1UF 10V	1	
	C8308	FlG1A105A047	C 1UF 10V	1	
	C8309	FlG1A105A047	C 1UF 10V	1	
	C8310	FlG1A105A047	C 1UF 10V	1	
	C8311	FlG1A105A047	C 1UF 10V	1	
	C8532	EEEB0J221UP	E 220UF, 6.3V	1	
	C8534	FlJ1A106A043	C 10UF, 10V	1	
	C8535	FlG1C104A077	C 0.1UF 16V	1	
	C8536	EEEB0J221UP	E 220UF, 6.3V	1	
	C8538	FlJ1A106A043	C 10UF, 10V	1	
	C8539	FlG1C104A077	C 0.1UF 16V	1	
	C8542	FlJ1A106A043	C 10UF, 10V	1	
	C8543	FlG1C104A077	C 0.1UF 16V	1	
	C8544	FlJ1A106A043	C 10UF, 10V	1	
	C8545	FlG1C104A077	C 0.1UF 16V	1	
	C8565	FlG1C104A077	C 0.1UF 16V	1	
	C8570	FlG1C104A077	C 0.1UF 16V	1	
	C8603	FlJ1A106A043	C 10UF, 10V	1	
	C8604	FlG1C104A077	C 0.1UF 16V	1	
	C8605	FlG1C104A077	C 0.1UF 16V	1	
	C8607	FlG1H100A565	C 10PF 50V	1	
	C8608	FlG1H100A565	C 10PF 50V	1	
	C8609	FlG1C104A077	C 0.1UF 16V	1	
	C8611	FlG1C104A077	C 0.1UF 16V	1	
	C8615	FlJ1A106A043	C 10UF, 10V	1	
	C8616	FlJ1A106A043	C 10UF, 10V	1	
	C8619	FlG1C104A077	C 0.1UF 16V	1	
	C8620	FlG1C104A077	C 0.1UF 16V	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C8627	FlG1C104A077	C 0.1UF 16V	1	
	C8629	FlJ0G2260001	C 22 UF 4 V	1	
	C8630	FlJ0G2260001	C 22 UF 4 V	1	
	C8707	FlG1C223A081	C 0.022UF, 16V	1	
	C8708	FlJ1A106A043	C 10UF, 10V	1	
	C8709	FlJ1A106A043	C 10UF, 10V	1	
	C8711	FlG1A333A032	C0.033UF, 10V	1	
	C8712	FlG1H5610004	C 560 pF 50 V	1	PAVCTH
	C8714	FlJ1A475A087	C 4.7UF, 10V	1	
	C8715	FlJ1A106A043	C 10UF, 10V	1	
	C8716	FlG1C104A077	C 0.1UF 16V	1	
	C8717	FlG1C104A077	C 0.1UF 16V	1	
	C8724	FlK1E106A136	C 10UF, 25V	1	
	C8764	ECJ1VB1A105K	C 1UF, 10V	1	
	C8765	ECJ1VB1A105K	C 1UF, 10V	1	
	C8773	FlK1E106A136	C 10UF, 25V	1	
	C8774	FlK1E106A136	C 10UF, 25V	1	
	C8775	FlG1C223A081	C 0.022UF, 16V	1	
	C8776	FlG1E1030005	C 0.01UF 25V	1	
	C8777	FlG1E1030005	C 0.01UF 25V	1	
	C8779	FlK0J226A049	C 22UF, 6.3V	1	PAVCTH
	C8780	FlK0J226A049	C 22UF, 6.3V	1	PAVCTH
	C8900	FlG1C104A077	C 0.1UF 16V	1	
	C8901	FlG1C104A077	C 0.1UF 16V	1	
	C8902	FlG1C104A077	C 0.1UF 16V	1	
	C8903	FlG1C104A077	C 0.1UF 16V	1	
	C8950	FlG1H220A565	C 22PF, 50V	1	
	C8951	FlG1H220A565	C 22PF, 50V	1	
	C9099	FlG1C104A077	C 0.1UF 16V	1	
	C9100	FlJ1A106A043	C 10UF, 10V	1	
	C9101	FlG1E1030005	C 0.01UF 25V	1	
	C9102	FlK1E106A136	C 10UF, 25V	1	
	C9103	FlG1E1030005	C 0.01UF 25V	1	
	C9300	FlG1C104A077	C 0.1UF 16V	1	
	C9301	FlG1H150A565	C 15PF, 50V	1	
	C9302	FlG1H180A565	C 18PF, 50V	1	
	C9308	FlG1C104A077	C 0.1UF 16V	1	
	C9311	FlG1C104A077	C 0.1UF 16V	1	
	C9312	FlJ1A106A043	C 10UF, 10V	1	
	C9313	FlG1C104A077	C 0.1UF 16V	1	
	C9314	FlJ1A106A043	C 10UF, 10V	1	
	C9316	FlJ1A106A043	C 10UF, 10V	1	
	C9328	FlG1C104A077	C 0.1UF 16V	1	
	C9330	FlG1A105A047	C 1UF 10V	1	
	C9331	FlG1A105A047	C 1UF 10V	1	
	C9332	FlG1A105A047	C 1UF 10V	1	
	C9335	FlJ1A106A043	C 10UF, 10V	1	
	C9336	FlJ1A106A043	C 10UF, 10V	1	
	C9337	FlJ1A106A043	C 10UF, 10V	1	
	C9347	FlG1A105A047	C 1UF 10V	1	
	C9351	FlG1C104A077	C 0.1UF 16V	1	
	C9352	FlG1A105A047	C 1UF 10V	1	
	C9362	FlG1C104A077	C 0.1UF 16V	1	
	C9366	FlG1A105A047	C 1UF 10V	1	
	C9371	FlJ1A106A043	C 10UF, 10V	1	
	C9375	FlG1C104A077	C 0.1UF 16V	1	
	C9380	FlG1C104A077	C 0.1UF 16V	1	
	C9389	FlG1A105A047	C 1UF 10V	1	
	C9392	FlJ1A106A043	C 10UF, 10V	1	
	C9400	FlG1C104A077	C 0.1UF 16V	1	
	C9401	FlG1C104A077	C 0.1UF 16V	1	
	C9404	FlG1C104A077	C 0.1UF 16V	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C9409	FlG1A105A047	C 1UF 10V	1	
	C9411	FlG1A105A047	C 1UF 10V	1	
	C9413	FlG1A105A047	C 1UF 10V	1	
	C9809	FlK0J226A049	C 22UF, 6.3V	1	PAVCTH
	C9810	FlG1E1030005	C 0.01UF 25V	1	
	C9811	FlG1E1030005	C 0.01UF 25V	1	
	C9813	FlG1E472A086	C 4700pF 25V	1	
	C9814	FlK1E106A136	C 10UF, 25V	1	
	C9815	FlK1E106A136	C 10UF, 25V	1	
	C9817	FlK0J226A049	C 22UF, 6.3V	1	PAVCTH
	C9818	FlK0J226A049	C 22UF, 6.3V	1	PAVCTH
	C9819	FlK0J226A049	C 22UF, 6.3V	1	PAVCTH
	C9854	FlG1H1020008	C 1000PF 50V	1	
	C14901	FlG1H1020008	C 1000PF 50V	1	
	C14902	FlH1C105A145	C 1 uF 16 V	1	
	C14906	FlH1C105A145	C 1 uF 16 V	1	
	C14908	FlH1C105A145	C 1 uF 16 V	1	
	C14912	FlH1C105A145	C 1 uF 16 V	1	
	C14926	FlH1H104A970	C 0.1UF, , 50V	1	
	C14928	FlL2E104A028	C 0.10UF, 250V	1	
	C14931	FlG1H1020008	C 1000PF 50V	1	
	C14934	FlL2E104A028	C 0.10UF, 250V	1	
	C14936	FlG1H221A541	C 220PF, 50V	1	
	C14937	FlG1H221A541	C 220PF, 50V	1	
	C14943	FlK1E475A134	C 4.7UF 25V	1	
	C14950	FlG1H221A541	C 220PF, 50V	1	
	C14952	FlH1C105A145	C 1 uF 16 V	1	
	C14957	FlH1C105A145	C 1 uF 16 V	1	
	C14958	FlH1C105A145	C 1 uF 16 V	1	
	C14963	FlH1C105A145	C 1 uF 16 V	1	
	C14970	FlG1H221A541	C 220PF, 50V	1	
	C14973	FlG1H1020008	C 1000PF 50V	1	
	C14975	FlL2E104A028	C 0.10UF, 250V	1	
	C14979	FlL2E104A028	C 0.10UF, 250V	1	
	C14987	FlH1C105A145	C 1 uF 16 V	1	
	C14988	FlH1C105A145	C 1 uF 16 V	1	
	C14991	FlG1H100A565	C 10PF 50V	1	
	C14992	FlH1C105A145	C 1 uF 16 V	1	
	C14993	FlH1C105A145	C 1 uF 16 V	1	
	C16001	FlL2J222A022	C 2200PF, 630V	1	
	C16002	FlL2J562A022	C 5600PF, 630V	1	
	C16004	FlL2J272A022	C 2700PF, 630V	1	
	C16011	F2A2T181A018	E 180UF, 220V	1	PAVCTH
	C16012	F2A2T181A018	E 180UF, 220V	1	PAVCTH
	C16022	FlL2J562A022	C 5600PF, 630V	1	
	C16024	FlL2J272A022	C 2700PF, 630V	1	
	C16103	FlH1E470A130	C 47PF, 25V	1	
	C16104	FlH1E470A130	C 47PF, 25V	1	
	C16105	FlE2J331A002	C 330PF, 630V	1	
	C16131	FlK1E475A134	C 4.7UF 25V	1	
	C16132	FlH1C105A145	C 1 uF 16 V	1	
	C16133	F2A1E470B725	E 47UF, 25V	1	PAVCTH
	C16135	FlK1E105A029	C 1UF, 25V	1	
	C16191	FlK1E475A134	C 4.7UF 25V	1	
	C16192	FlH1C105A145	C 1 uF 16 V	1	
	C16193	F2A1E470B725	E 47UF, 25V	1	PAVCTH
	C16195	FlK1E105A029	C 1UF, 25V	1	
	C16242	FlH1C105A145	C 1 uF 16 V	1	
	C16243	ECJ1VB1H103K	C 0.01UF, 50V	1	
	C16244	FlJ1A106A087	C 10UF, 10V	1	
	C16272	F2A1E470B725	E 47UF, 25V	1	PAVCTH
	C16286	FlH1H104A970	C 0.1UF, , 50V	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C16287	F1H1H104A970	C 0.1UF, , 50V	1	
	C16310	F2A2T181A018	E 180UF, 220V	1	PAVCTH
	C16315	ECJ1VB1A105K	C 1UF, 10V	1	
	C16316	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
	C16317	ECJ1VB1A105K	C 1UF, 10V	1	
	C16318	F1J1H104A717	C 0.1UF, 50V	1	
	C16319	F1J1H104A717	C 0.1UF, 50V	1	
	C16328	F2A2C1010028	E 100UF, 160V	1	PAVCTH
	C16400	F1E2J222A002	C 2200PF, 630V	1	
	C16401	F1L2J222A022	C 2200PF, 630V	1	
	C16402	F1L2J222A022	C 2200PF, 630V	1	
	C16411	F2A2T181A018	E 180UF, 220V	1	PAVCTH
	C16412	F2A2T181A018	E 180UF, 220V	1	PAVCTH
	C16413	F2A2T181A018	E 180UF, 220V	1	PAVCTH
	C16414	F2A2T181A018	E 180UF, 220V	1	PAVCTH
	C16421	F1L2J332A022	C 3300PF, 630V	1	
	C16422	F1L2J1020001	C 1000PF, 630V	1	
	C16441	ECJ1VB1H472K	C 4700PF, 50V	1	
	C16451	ECJ1VB1H472K	C 4700PF, 50V	1	
	C16472	ECJ1VB1A105K	C 1UF, 10V	1	
	C16490	F1H1C105A145	C 1 uF 16 V	1	
	C16502	F1K1E475A134	C 4.7UF 25V	1	
	C16503	F2A1E221B726	E 220UF, 25V	1	PAVCTH
	C16505	F1K1E105A029	C 1UF, 25V	1	
	C16506	F1H1C105A145	C 1 uF 16 V	1	
	C16531	F1K1E475A134	C 4.7UF 25V	1	
	C16534	F1H1C105A145	C 1 uF 16 V	1	
	C16541	F1H1C105A145	C 1 uF 16 V	1	
	C16542	F2A1E470B725	E 47UF, 25V	1	PAVCTH
	C16551	F1K1E475A134	C 4.7UF 25V	1	
	C16561	F1J1A106A087	C 10UF, 10V	1	
	C16562	F1H1C105A145	C 1 uF 16 V	1	
	C16564	F1H1C105A145	C 1 uF 16 V	1	
	C16565	ECJ1VB1H103K	C 0.01UF, 50V	1	
	C16566	ECJ1VB1H103K	C 0.01UF, 50V	1	
	C16567	F1H1C105A145	C 1 uF 16 V	1	
	C16581	F1K1E105A029	C 1UF, 25V	1	
	C16582	F1K1E475A134	C 4.7UF 25V	1	
	C16593	ECJ1XC1H102J	C 1000PF, J, 50V	1	
	C16602	F1H1H2200008	C 22PF, 50V	1	
	C16603	F1K2J102A014	C 1000PF, 630V	1	
	C16604	F1K2J102A014	C 1000PF, 630V	1	
	C16641	F1L2J1520001	C 1500PF, 630V	1	
	C16661	F1K2J102A038	C 1000PF, 630V	1	
	C16662	F1K2J102A038	C 1000PF, 630V	1	
	C16664	ECJ1XC1H820J	C 82PF, J, 50V	1	
	C16665	ECJ1XC1H820J	C 82PF, J, 50V	1	
	C16666	ECJ1XC1H820J	C 82PF, J, 50V	1	
	C16668	F1H1H821A831	C 820 PF, 50V	1	PAVCTH
	C16685	F1H1H104A970	C 0.1UF, , 50V	1	
	C16723	F1K1E105A029	C 1UF, 25V	1	
	C16724	F1K1E475A134	C 4.7UF 25V	1	
	C16727	F1E2J331A002	C 330PF, 630V	1	
	C16729	F1E2J331A002	C 330PF, 630V	1	
	C16730	F1E2J331A002	C 330PF, 630V	1	
	C16733	F1E2J332A002	C 3300PF, 630V	1	
	C16753	F1K1E475A134	C 4.7UF 25V	1	
	C16770	F1H1C105A145	C 1 uF 16 V	1	
	C16791	F2A1E221B726	E 220UF, 25V	1	PAVCTH
	C16792	F1K1E475A134	C 4.7UF 25V	1	
	C16793	F2A1E221B726	E 220UF, 25V	1	PAVCTH
	C16795	F2A1E221B726	E 220UF, 25V	1	PAVCTH

Model No. : TH-P50X30D/G/K/M/P/S/V Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C16796	FlK1E475A134	C 4.7UF 25V	1	
	C16813	F2A2T1210001	E 120UF, 220V	1	PAVCTH
	C16833	FlK2J222A014	C 2200PF ,630V	1	
	C16834	FlK2J222A014	C 2200PF ,630V	1	
	C16842	F2A2C1010028	E 100UF, 160V	1	PAVCTH
	C16843	ECJ1VB1A105K	C 1UF, 10V	1	
	C16844	FlJ1H104A717	C 0.1UF, 50V	1	
	C16854	FlJ1H104A717	C 0.1UF, 50V	1	
	C16856	ECJ1VB1A105K	C 1UF, 10V	1	
	C16858	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
	C16859	FlJ1H104A717	C 0.1UF, 50V	1	
	C16860	ECJ1VB1A105K	C 1UF, 10V	1	
	C16861	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
	C16862	ECJ1VB1A105K	C 1UF, 10V	1	
	C16863	FlJ1H104A717	C 0.1UF, 50V	1	
	C16865	FlH1C105A145	C 1 uF 16 V	1	
	C16891	FlK1E105A029	C 1UF, 25V	1	
	C16903	FlL2J1520001	C 1500PF, 630V	1	
	C16904	FlL2J4710001	C 470PF, 630V	1	
	C16905	FlE2J221A002	C 220PF, 630V	1	
	C16906	FlL2J681A038	C 680PF, 630V	1	PAVCTH
	C17101	ECJ1VB1A105K	C 1UF, 10V	1	
	C17102	ECJ1VB1A105K	C 1UF, 10V	1	
	C17103	ECJ1VB1A105K	C 1UF, 10V	1	
	C17104	ECJ1VB1A105K	C 1UF, 10V	1	
	C17105	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
	C17118	FlL2E154A028	C 0.15UF, 250V	1	
	C17120	FlL2E154A028	C 0.15UF, 250V	1	
	C17121	FlL2E154A028	C 0.15UF, 250V	1	
	C17123	FlL2E154A028	C 0.15UF, 250V	1	
	C17201	ECJ1VB1A105K	C 1UF, 10V	1	
	C17202	ECJ1VB1A105K	C 1UF, 10V	1	
	C17203	ECJ1VB1A105K	C 1UF, 10V	1	
	C17204	ECJ1VB1A105K	C 1UF, 10V	1	
	C17205	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
	C17206	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
	C17223	FlL2E154A028	C 0.15UF, 250V	1	
	C17224	FlL2E154A028	C 0.15UF, 250V	1	
	C17226	FlL2E154A028	C 0.15UF, 250V	1	
	C17227	FlL2E154A028	C 0.15UF, 250V	1	
	CB1	K1MY55B00001	55P CONNECTOR	1	
	CB2	K1MY55B00001	55P CONNECTOR	1	
	CB3	K1MY55B00001	55P CONNECTOR	1	
	CB4	K1MY55B00001	55P CONNECTOR	1	
	CB5	K1MY55B00001	55P CONNECTOR	1	
	CB6	K1MY55B00001	55P CONNECTOR	1	
	CB7	K1MY55B00001	55P CONNECTOR	1	
	CB8	K1MY55B00001	55P CONNECTOR	1	
	D1101	B0ADCJ000100	DIODE	1	
	D1102	DZ2J068M0L	ZENER DIODE	1	
	D1103	DZ2J068M0L	ZENER DIODE	1	
	D1104	B0ADCJ000100	DIODE	1	
	D1105	DZ2J068M0L	ZENER DIODE	1	
	D2820	B3AGB0000065	LED	1	PAVCTH
	D3050	K7AAAY000006	PHOTO LINK	1	
	D4500	B0JCCE0000020	DIODE	1	PAVCTH
	D4604	B0JCCE000008	DIODE	1	
	D4621	B0JCCE000008	DIODE	1	
	D4649	B0JCCE000008	DIODE	1	
	D4671	DZ2J056M0L	ZENER DIODE	1	

Model No. : TH-P50X30D/G/K/M/P/S/V Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	D4672	DZ2J056M0L	ZENER DIODE	1	
	D4673	DZ2J056M0L	ZENER DIODE	1	
	D5350	B0JCMD000066	ZENER DIODE	1	
	D8716	DA2J10100L	DIODE	1	
	D8720	B0JCMD000066	ZENER DIODE	1	
	D9806	B0ADCK000001	DIODE	1	PAVCTH
	D9808	B0ADCK000001	DIODE	1	PAVCTH
	D14904	B0ECKM000046	DIODE	1	
	D14905	B0ECKM000046	DIODE	1	
	D14909	B0ADCJ000100	DIODE	1	
	D14910	B0ADCJ000100	DIODE	1	
	D14955	B0ECKM000046	DIODE	1	
	D14956	B0ECKM000046	DIODE	1	
	D14962	B0ACCCJ000048	DIODE	1	
	D14976	B0ACCCJ000048	DIODE	1	
	D16001	B0ECLP000010	DIODE	1	PAVCTH
	D16002	B0ECLP000010	DIODE	1	PAVCTH
	D16021	B0ECLP000010	DIODE	1	PAVCTH
	D16024	B0ECLP000010	DIODE	1	PAVCTH
	D16101	B0JCME000093	DIODE	1	
	D16131	B0ECKP000055	DIODE	1	
	D16133	B0ACCCJ000048	DIODE	1	
	D16134	DZ2J051M0L	ZENER DIODE	1	
	D16191	B0ECKP000055	DIODE	1	
	D16192	B0ACCCJ000048	DIODE	1	
	D16193	DZ2J051M0L	ZENER DIODE	1	
	D16281	DZ2J051M0L	ZENER DIODE	1	
	D16282	DZ2J068M0L	ZENER DIODE	1	
	D16285	B0ADEJ000035	ZENER DIODE	1	
	D16315	DZ2J150M0L	ZENER DIODE	1	
	D16316	B0ECKP000055	DIODE	1	
	D16317	B0ECHR000004	DIODE	1	PAVCTH
	D16401	B0ECLP000010	DIODE	1	PAVCTH
	D16402	B0ECLP000010	DIODE	1	PAVCTH
	D16407	B0JCME000093	DIODE	1	
	D16411	B0ADCJ000100	DIODE	1	
	D16413	B0ACCCJ000048	DIODE	1	
	D16421	B0ECLP000010	DIODE	1	PAVCTH
	D16422	B0ECLP000010	DIODE	1	PAVCTH
	D16431	B0ECKP000055	DIODE	1	
	D16432	B0ECKP000055	DIODE	1	
	D16433	B0ECKP000055	DIODE	1	
	D16461	B0FBCN000005	DIODE	1	
	D16473	B0ACCCJ000048	DIODE	1	
	D16474	B0ACCCJ000048	DIODE	1	
	D16481	B0FBCN000005	DIODE	1	
	D16491	B0ACCCJ000048	DIODE	1	
	D16492	DZ2J047M0L	ZENER DIODE	1	
	D16493	B0ADCJ000100	DIODE	1	
	D16506	DZ2J051M0L	ZENER DIODE	1	
	D16507	DZ2J051M0L	ZENER DIODE	1	
	D16534	DZ2J051M0L	ZENER DIODE	1	
	D16536	B0ECKP000055	DIODE	1	
	D16537	B0ADCJ000100	DIODE	1	
	D16583	B3ABB0000210	LED	1	
	D16602	DZ2J043M0L	ZENER DIODE	1	
	D16603	B0ACCCJ000048	DIODE	1	
	D16604	B0ADCJ000100	DIODE	1	
	D16605	B0ACCCJ000048	DIODE	1	
	D16607	B0ACCCJ000048	DIODE	1	
	D16618	B0ECKP000055	DIODE	1	
	D16620	B0ECKP000055	DIODE	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	D16641	B0FCBN000001	DIODE	1	PAVCTH
	D16642	B0FCBN000001	DIODE	1	PAVCTH
	D16643	B0FCBN000001	DIODE	1	PAVCTH
	D16662	DZ2J330M0L	ZENER DIODE	1	
	D16663	DZ2J330M0L	ZENER DIODE	1	
	D16664	DZ2J330M0L	ZENER DIODE	1	
	D16669	B0ACJ000048	DIODE	1	
	D16673	B0ECHS000002	DIODE	1	PAVCTH
	D16674	B0ECHS000002	DIODE	1	PAVCTH
	D16685	B0ACJ000048	DIODE	1	
	D16710	DZ2J15000L	ZENER DIODE	1	
	D16711	B0ECHR000004	DIODE	1	PAVCTH
	D16712	B0ECHR000004	DIODE	1	PAVCTH
	D16713	B0ECHS000002	DIODE	1	PAVCTH
	D16714	B0ECHS000002	DIODE	1	PAVCTH
	D16720	B0ECHR000004	DIODE	1	PAVCTH
	D16722	B0ECLP000010	DIODE	1	PAVCTH
	D16723	B0ECLP000010	DIODE	1	PAVCTH
	D16725	B0ECLP000010	DIODE	1	PAVCTH
	D16726	B0ECLP000010	DIODE	1	PAVCTH
	D16728	B0ECKP000055	DIODE	1	
	D16791	DZ2J240M0L	ZENER DIODE	1	
	D16822	B0ACJ000048	DIODE	1	
	D16823	B0ADCJ000100	DIODE	1	
	D16824	B0ACJ000048	DIODE	1	
	D16825	DZ2J330M0L	ZENER DIODE	1	
	D16833	B0ECHR000004	DIODE	1	PAVCTH
	FL8531	J0ZZB0000142	FILTER	1	
	FL8532	J0ZZB0000142	FILTER	1	
	IC3001	C1AB00003385	IC	1	PAVCTH
	IC3753	C1ZBZ0004368	IC	1	PAVCTH
	IC4900	C1AB00003457	IC	1	PAVCTH
	IC5000	AN34044A-VF	IC	1	PAVCTH
	IC5251	C0CBCBC00227	IC	1	
	IC5350	C0DBAYY00931	IC	1	PAVCTH
	IC8000	MN2WS0175E	IC	1	PAVCTH
	IC8100	C0DBAYY00715	IC	1	
	IC8200	C3ABTY000025	IC	1	
	IC8201	C3ABTY000025	IC	1	
	IC8531	C0DBZYY00368	IC	1	
	IC8532	C0DBZYY00368	IC	1	
	IC8601	C1CB00003491	IC	1	
	IC8701	C0DBAYY00931	IC	1	PAVCTH
	IC8702	C0DBAFG00029	IC	1	PAVCTH
	IC8706	C0DBGYY00887	IC	1	
	IC8707	C0DBAYY00915	IC	1	PAVCTH
	IC8900	TVRS215AB	IC	1	PAVCTH
	IC8901	TVR***1D	IC	1	(D) PAVCTH
	IC8901	TVR***1G	IC	1	(G) PAVCTH
	IC8901	TVR***1K	IC	1	(K) PAVCTH
	IC8901	TVR***1M	IC	1	(M) PAVCTH
	IC8901	TVR***1P	IC	1	(P) PAVCTH
	IC8901	TVR***1S	IC	1	(S) PAVCTH
	IC8901	TVR***1V	IC	1	(V) PAVCTH
	IC8902	TVR***2D	IC	1	(D) PAVCTH
	IC8902	TVR***2G	IC	1	(G) PAVCTH
	IC8902	TVR***2K	IC	1	(K) PAVCTH
	IC8902	TVR***2M	IC	1	(M) PAVCTH
	IC8902	TVR***2P	IC	1	(P) PAVCTH
	IC8902	TVR***2S	IC	1	(S) PAVCTH

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	IC8902	TVR***2V	IC	1	(V) PAVCTH
	IC9300	C1AB00003409	IC	1	PAVCTH
	IC9304	TWRS207AB	IC	1	PAVCTH
	IC9400	C0JBAU000010	IC	1	
	IC9401	C0JBAU000010	IC	1	
	IC9810	C0DBAYY00915	IC	1	PAVCTH
	IC14901	AN16531A-VT	IC	1	PAVCTH
	IC14902	AN16531A-VT	IC	1	PAVCTH
	IC14903	AN16531A-VT	IC	1	PAVCTH
	IC14904	AN16531A-VT	IC	1	PAVCTH
	IC14951	AN16531A-VT	IC	1	PAVCTH
	IC14952	AN16531A-VT	IC	1	PAVCTH
	IC14953	AN16531A-VT	IC	1	PAVCTH
	IC14954	AN16531A-VT	IC	1	PAVCTH
	IC14961	C0JBAB000996	IC	1	PAVCTH
	IC14962	C0JBAB000996	IC	1	PAVCTH
	IC14963	C0JBAA000558	IC	1	PAVCTH
	IC16131	C0ZBZ0001822	IC	1	PAVCTH
	IC16132	C0ZBZ0001822	IC	1	PAVCTH
	IC16191	C0ZBZ0001822	IC	1	PAVCTH
	IC16241	C0JBAU000088	IC	1	
	IC16304	MIP3910MSSCF	IC	1	
	IC16312	C0DBZMC00006	IC	1	
	IC16471	C0DBEYY00114	IC	1	
	IC16490	C0DBZMC00006	IC	1	
	IC16491	C0BBAA000008	LINEAR IC	1	
	IC16501	C0ZBZ0001822	IC	1	PAVCTH
	IC16502	C0ZBZ0001822	IC	1	PAVCTH
	IC16521	C0ZBZ0001822	IC	1	PAVCTH
	IC16522	C0ZBZ0001822	IC	1	PAVCTH
	IC16561	C0JBAU000088	IC	1	
	IC16562	C0JBAU000088	IC	1	
	IC16563	C0JBAB000996	IC	1	PAVCTH
	IC16564	C0JBAE000321	IC	1	
	IC16581	C0BBBA000024	IC	1	
	IC16684	C0ZBZ0001822	IC	1	PAVCTH
	IC16724	C0CBADE00049	IC	1	
	IC16784	MIP3910MSSCF	IC	1	
	IC16785	C0DBZYY00352	IC	1	
	IC16786	MIP3910MSSCF	IC	1	
	IC16787	C0DBZYY00352	IC	1	
	IC16795	C0CBALC00012	IC	1	
	IC16921	C1ZBZ0004292	IC	1	PAVCTH
	IC17101	C0JBAU000088	IC	1	
	IC17201	C0JBAU000088	IC	1	
	IC17202	C0JBAU000089	IC	1	PAVCTH
	JK3000B	K1U920A00003	CONNECTOR UNIT	1	PAVCTH
	JK3001	K2HC103E0030	JACK	1	PAVCTH
	JK3300	K1FY315A0010	CONNECTOR	1	PAVCTH
	JK3701	K1U308B00003	CONNECTOR UNIT	1	PAVCTH
	JK4600	K1FY119D0015	CONNECTOR	1	PAVCTH
	JK4601	K1FY119D0015	CONNECTOR	1	PAVCTH
	JK4602	K1FY119E0028	CONNECTOR	1	PAVCTH
	JK8531	K1FY208B0008	CONNECTOR	1	
	JK8650	K1NA12E00016	12P CONNECTOR	1	
	JK8702	K2LC108A0012	JACK	1	PAVCTH
	JS1050	D0GAR00J0005	M 0 OHM, 1/16W	1	
	JS1053	D0GDR00J0004	M 0 OHM, 1/8W	1	
	K1	K1KA08B00270	8P CONNECTOR	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	L3005	J0JYC0000331	CHIP INDUCTOR	1	
	L3006	J0JYC0000331	CHIP INDUCTOR	1	
	L3007	J0JYC0000331	CHIP INDUCTOR	1	
	L3008	J0JYC0000331	CHIP INDUCTOR	1	
	L4500	J0JHC0000117	CHIP INDUCTOR	1	
	L4501	J0JYC0000068	CHIP INDUCTOR	1	
	L4502	J0JYC0000068	CHIP INDUCTOR	1	
	L4503	J0JYC0000068	CHIP INDUCTOR	1	
	L4504	J0JHC0000117	CHIP INDUCTOR	1	
	L4505	J0JYC0000068	CHIP INDUCTOR	1	
	L4506	J0JYC0000068	CHIP INDUCTOR	1	
	L4507	J0JYC0000068	CHIP INDUCTOR	1	
	L4508	J0JHC0000117	CHIP INDUCTOR	1	
	L4509	J0JYC0000068	CHIP INDUCTOR	1	
	L4510	J0JYC0000068	CHIP INDUCTOR	1	
	L4511	J0JYC0000068	CHIP INDUCTOR	1	
	L4801	J0JGC0000020	CHIP INDUCTOR	1	
	L4802	J0JGC0000020	CHIP INDUCTOR	1	
	L4803	G1CR39J00009	INDUCTION COIL	1	(G) (S)
	L4804	G1CR39J00009	INDUCTION COIL	1	(G) (S)
	L4805	J0JGC0000020	CHIP INDUCTOR	1	
	L4811	J0JCC0000278	CHIP INDUCTOR	1	
	L4900	G1C150MA0426	INDUCTION COIL	1	PAVCTH
	L4901	G1C150MA0426	INDUCTION COIL	1	PAVCTH
	L4902	G1C150MA0426	INDUCTION COIL	1	PAVCTH
	L4903	G1C150MA0426	INDUCTION COIL	1	PAVCTH
	L5350	G1C6R8MA0445	INDUCTION COIL	1	PAVCTH
	L8003	J0JCC0000287	CHIP INDUCTOR	1	
	L8005	J0JHC0000045	CHIP INDUCTOR	1	
	L8006	J0JHC0000045	CHIP INDUCTOR	1	
	L8007	J0JHC0000045	CHIP INDUCTOR	1	
	L8009	J0JKC0000021	CHIP INDUCTOR	1	
	L8015	J0JCC0000287	CHIP INDUCTOR	1	
	L8016	J0JCC0000287	CHIP INDUCTOR	1	
	L8100	G1C4R7MA0416	INDUCTION COIL	1	
	L8102	G1C3R3MA0425	INDUCTION COIL	1	
	L8531	J0JHC0000045	CHIP INDUCTOR	1	
	L8532	J0JHC0000045	CHIP INDUCTOR	1	
	L8600	J0JHC0000045	CHIP INDUCTOR	1	
	L8609	J0JHC0000045	CHIP INDUCTOR	1	
	L8701	G1C6R8MA0445	INDUCTION COIL	1	PAVCTH
	L8702	G1C6R8MA0445	INDUCTION COIL	1	PAVCTH
	L9302	J0JHC0000117	CHIP INDUCTOR	1	
	L9303	J0JHC0000117	CHIP INDUCTOR	1	
	L9810	G1C6R8MA0445	INDUCTION COIL	1	PAVCTH
	L16011	G0CR56KA0215	PEAKING COIL	1	PAVCTH
	L16303	G0C471MA0049	PEAKING COIL	1	
	L16411	G0CR56KA0215	PEAKING COIL	1	PAVCTH
	L16451	G0ZZ00002183	PEAKING COIL	1	
	L16452	G0ZZ00002183	PEAKING COIL	1	
	L16453	G0ZZ00002183	PEAKING COIL	1	
	L16454	G0ZZ00002183	PEAKING COIL	1	
	L16455	G0ZZ00002183	PEAKING COIL	1	
	PA5440	K5H5022A0031	FUSE	1	
	PA5601	K5H5022A0031	FUSE	1	
	PC14951	B3PBE0000059	IC	1	PAVCTH
	PC14952	B3PBE0000059	IC	1	PAVCTH
	PC16131	B3PBE0000060	IC	1	PAVCTH
	PC16191	B3PBE0000060	IC	1	PAVCTH

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	PC16192	B3PBA0000580	IC	1	PAVCTH
	PC16461	B3PBE0000058	IC	1	PAVCTH
	PC16462	B3PBE0000060	IC	1	PAVCTH
	PC16463	B3PBE0000060	IC	1	PAVCTH
	PC16480	B3PBA0000580	IC	1	PAVCTH
	PC16603	B3PBA0000580	IC	1	PAVCTH
	PC16685	B3PBA0000496	IC	1	
	PC16723	B3PBA0000580	IC	1	PAVCTH
	PC16896	B3PBA0000580	IC	1	PAVCTH
	PC16897	B3PBA0000580	IC	1	PAVCTH
	Q1101	DSA200100L	TRANSISTOR	1	
	Q1102	DSC2001S0L	TRANSISTOR	1	
	Q2810	B1ABCE000015	TRANSISTOR	1	
	Q2811	B1ABCE000015	TRANSISTOR	1	
	Q2812	B1ABCE000015	TRANSISTOR	1	
	Q3133	B1Aafb000004	TRANSISTOR	1	PAVCTH
	Q3134	B1Aafb000004	TRANSISTOR	1	PAVCTH
	Q3135	DSA200100L	TRANSISTOR	1	
	Q4500	B1HFCFA00026	TRANSISTOR	1	
	Q4501	B1ADCE000022	TRANSISTOR	1	
	Q4502	B1ABCF000231	TRANSISTOR	1	
	Q4503	B1ABCF000231	TRANSISTOR	1	
	Q4504	B1ABCF000231	TRANSISTOR	1	
	Q4930	B1ADCF000194	TRANSISTOR	1	PAVCTH
	Q4971	B1ABCE000015	TRANSISTOR	1	
	Q4972	DSA200100L	TRANSISTOR	1	
	Q4973	B1Aafb000004	TRANSISTOR	1	PAVCTH
	Q4974	B1Aafb000004	TRANSISTOR	1	PAVCTH
	Q8100	B1MBEDA00027	FET	1	
	Q8102	B1MBEDA00027	FET	1	
	Q8900	B1ADCF000194	TRANSISTOR	1	PAVCTH
	Q16001	DG3C3010CL	TRANSISTOR	1	PAVCTH
	Q16003	DG3C3010CL	TRANSISTOR	1	PAVCTH
	Q16022	DG3C3010CL	TRANSISTOR	1	PAVCTH
	Q16023	DG3C3010CL	TRANSISTOR	1	PAVCTH
	Q16101	B1CFRM000015	FET	1	
	Q16102	B1CFRM000015	FET	1	
	Q16141	B1HFPPFA00002	TRANSISTOR	1	
	Q16161	B1HFPPFA00002	TRANSISTOR	1	
	Q16280	B1ABCE000015	TRANSISTOR	1	
	Q16401	DG3C3010CL	TRANSISTOR	1	PAVCTH
	Q16402	DG3C3010CL	TRANSISTOR	1	PAVCTH
	Q16421	DG3C3010CL	TRANSISTOR	1	PAVCTH
	Q16422	DG3C3010CL	TRANSISTOR	1	PAVCTH
	Q16423	DG3C3010CL	TRANSISTOR	1	PAVCTH
	Q16441	B1JAEN000015	TRANSISTOR	1	PAVCTH
	Q16451	B1JAEN000015	TRANSISTOR	1	PAVCTH
	Q16471	B1ABCE000015	TRANSISTOR	1	
	Q16501	B1HFPPFA00002	TRANSISTOR	1	
	Q16521	B1HFPPFA00002	TRANSISTOR	1	
	Q16531	B1HFPPFA00002	TRANSISTOR	1	
	Q16551	B1HFPPFA00002	TRANSISTOR	1	
	Q16601	B1CERQ000061	FET	1	
	Q16602	DSA2001S0L	TRANSISTOR	1	
	Q16606	DSC2001S0L	TRANSISTOR	1	
	Q16607	B1CBGD000001	FET	1	
	Q16621	B1JBDN000004	TRANSISTOR	1	PAVCTH
	Q16622	B1JBDN000004	TRANSISTOR	1	PAVCTH
	Q16661	B1JAER000014	TRANSISTOR	1	PAVCTH
	Q16762	B1HFPPFA00002	TRANSISTOR	1	
	Q16815	B1ABCN000007	TRANSISTOR	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	Q16817	DSC2001Q0L	TRANSISTOR	1	
	Q16818	B1CBGD000001	FET	1	
	Q16819	B1CBGD000001	FET	1	
	Q16820	B1CBGD000001	FET	1	
	Q16891	DSA2001S0L	TRANSISTOR	1	
	Q16892	DSC2001Q0L	TRANSISTOR	1	
	R1010	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R1011	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R1013	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R1014	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R1015	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R1050	D0GA154JA023	M 150KOHM J 1/16W	1	
	R1056	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R1100	D0GA122JA023	M 1.2KOHM, J,1/16W	1	
	R1101	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R1102	D0GA683JA023	M 68KOHM, J,1/16W	1	
	R1115	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R1117	D1BA7151A014	M7.15KOHM, J.1/16 W	1	
	R1118	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R1121	D0GA222JA023	M 2.2KOHM, J,1/16W	1	
	R1122	D0GA332JA023	M 3.3KOHM, J,1/16W	1	
	R1123	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R1124	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R1125	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R1126	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R1127	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R1128	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R1129	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R2051	D1BA6651A014	M6.65KOHM, J.1/16 W	1	PAVCTH
	R2128	D1BA7151A014	M7.15KOHM, J.1/16 W	1	
	R2129	D1BA1432A014	M14.3KOHM, J.1/16 W	1	PAVCTH
	R2130	D1BA1741A014	M1.74KOHM, J.1/16 W	1	PAVCTH
	R2810	D0GB470JA065	M 47 OHM, J,1/10W	1	
	R2811	D0GB104JA065	M 100KOHM J 1/10W	1	
	R2812	D0GB224JA065	M 220KOHM, J,1/10W	1	PAVCTH
	R2813	D0GB223JA065	M 22KOHM, J,1/10W	1	PAVCTH
	R2814	D0GB103JA065	M 10K OHM J 1/10W	1	
	R2815	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R2816	D1BB1621A055	M1.62KOHM, J.1/10W	1	
	R2817	D0GB223JA065	M 22KOHM, J,1/10W	1	PAVCTH
	R2818	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R2819	D1BB4301A055	M4.30KOHM, J.1/10W	1	
	R3004	D0GBR00J0004	M 0 OHM J 1/10W	1	
	R3005	D0GBR00J0004	M 0 OHM J 1/10W	1	
	R3012	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R3013	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R3014	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R3015	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R3016	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R3020	D0GA820JA023	M 82 OHM, J,1/16W	1	PAVCTH
	R3021	D0GA820JA023	M 82 OHM, J,1/16W	1	PAVCTH
	R3022	D0GA820JA023	M 82 OHM, J,1/16W	1	PAVCTH
	R3023	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R3024	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R3025	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R3026	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R3027	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R3028	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R3030	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R3033	D0GA331JA023	M 330 OHM, J,1/16W	1	
	R3034	D0GA331JA023	M 330 OHM, J,1/16W	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R3051	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R3052	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R3056	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R3058	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R3067	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R3068	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R3069	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R3070	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R3145	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R3146	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R3147	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R3148	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R3149	D0GA222JA023	M 2.2KOHM, J,1/16W	1	
	R3150	D0GA222JA023	M 2.2KOHM, J,1/16W	1	
	R3151	D0GA105JA023	M 1M OHM, J,1/16W	1	
	R3152	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R3153	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R3154	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R3174	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R3189	D1BB75R0A055	M 75 OHM,J.1/10W	1	
	R3192	D0GA393JA023	M 39KOHM,J,1/16W	1	PAVCTH
	R3193	D0GA393JA023	M 39KOHM,J,1/16W	1	PAVCTH
	R3194	D1BB75R0A055	M 75 OHM,J.1/10W	1	
	R3198	D1BB75R0A055	M 75 OHM,J.1/10W	1	
	R3202	D0GA393JA023	M 39KOHM,J,1/16W	1	PAVCTH
	R3204	D0GA393JA023	M 39KOHM,J,1/16W	1	PAVCTH
	R3205	D1BB75R0A055	M 75 OHM,J.1/10W	1	
	R3206	D0GA393JA023	M 39KOHM,J,1/16W	1	PAVCTH
	R3207	D0GA393JA023	M 39KOHM,J,1/16W	1	PAVCTH
	R3209	D1BB75R0A055	M 75 OHM,J.1/10W	1	
	R3301	D1BB75R0A055	M 75 OHM,J.1/10W	1	
	R3302	D1BB75R0A055	M 75 OHM,J.1/10W	1	
	R3303	D1BB75R0A055	M 75 OHM,J.1/10W	1	
	R3304	D0GDR00J0004	M 0 OHM, 1/8W	1	
	R3305	D0GDR00J0004	M 0 OHM, 1/8W	1	
	R3313	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R3314	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R3756	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4512	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R4513	D0GA151JA023	M 150 OHM, J,1/16W	1	
	R4514	D0GA151JA023	M 150 OHM, J,1/16W	1	
	R4515	D0GA151JA023	M 150 OHM, J,1/16W	1	
	R4517	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R4521	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R4525	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4555	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4556	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4558	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4560	D0GA273JA023	M 27K OHM J ,1/16W	1	
	R4602	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4608	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4609	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4611	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R4612	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4615	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4621	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4622	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4624	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4625	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R4631	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4635	D0GA103JA015	M 10KOHM,J,1/16W	1	
	R4637	D0GA473JA015	M 47KOHM, J,1/16W	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R4638	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R4639	D0GA102JA023	M1KOHM, J, 1/16 W	1	
	R4646	D0GA680JA023	M 68 OHM, J, 1/16W	1	
	R4647	D0GA680JA023	M 68 OHM, J, 1/16W	1	
	R4648	D0GA680JA023	M 68 OHM, J, 1/16W	1	
	R4649	D0GA680JA023	M 68 OHM, J, 1/16W	1	
	R4650	D0GA680JA023	M 68 OHM, J, 1/16W	1	
	R4651	D0GA680JA023	M 68 OHM, J, 1/16W	1	
	R4691	D0GA473JA015	M 47KOHM, J, 1/16W	1	
	R4692	D0GA473JA015	M 47KOHM, J, 1/16W	1	
	R4693	D0GA473JA015	M 47KOHM, J, 1/16W	1	
	R4802	D0GA103JA015	M 10KOHM, J, 1/16W	1	(G) (S)
	R4805	D0GAR00J0005	M 0 OHM, 1/16W	1	(G) (S)
	R4806	D0GAR00J0005	M 0 OHM, 1/16W	1	(G) (S)
	R4824	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R4825	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R4826	D0GAR00J0005	M 0 OHM, 1/16W	1	(G) (S)
	R4901	EXB28V220J	M 22 OHM 1/32 W	1	
	R4902	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R4903	D0GA102JA023	M1KOHM, J, 1/16 W	1	
	R4904	D0GDR00J0004	M 0 OHM, 1/8W	1	
	R4906	D0GA472JA023	M 4.7KOHM, J, 1/16W	1	
	R4911	D0GDR00J0004	M 0 OHM, 1/8W	1	
	R4930	D0GA392JA023	M 3.9KOHM, J, 1/16W	1	
	R4931	D0GA221JA023	M220 OHM, J, 1/16 W	1	
	R4932	D0GA222JA023	M 2.2KOHM, J, 1/16W	1	
	R4933	D0GA222JA023	M 2.2KOHM, J, 1/16W	1	
	R4941	D1BB1403A055	M 140KOHM, J, 1/10W	1	
	R4942	D1BB1403A055	M 140KOHM, J, 1/10W	1	
	R4971	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R4973	D0GA473JA015	M 47KOHM, J, 1/16W	1	
	R4975	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R4976	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R4977	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R4978	D0GA101JA015	M 100 OHM, J, 1/16W	1	
	R4979	D0GA473JA015	M 47KOHM, J, 1/16W	1	
	R4980	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R4981	D0GA105JA023	M 1M OHM, J, 1/16W	1	
	R4982	D0GA101JA015	M 100 OHM, J, 1/16W	1	
	R4983	D0GA101JA015	M 100 OHM, J, 1/16W	1	
	R5000	D0GA102JA023	M1KOHM, J, 1/16 W	1	
	R5009	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R5010	D0GA222JA023	M 2.2KOHM, J, 1/16W	1	
	R5011	D0GA104JA023	M100KOHM, J, 1/16 W	1	
	R5012	D0GA223JA023	M 22K OHM J 1/16W	1	
	R5013	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R5018	D0GA223JA023	M 22K OHM J 1/16W	1	
	R5350	D1BB4302A087	M43.0KOHM, J, 1/10W	1	PAVCTH
	R5351	D1BB8061A087	M8.06 KOHM, J, 1/10W	1	PAVCTH
	R5352	D0GB390JA065	M 39 OHM, J, 1/10W	1	PAVCTH
	R5353	D1BB1002A055	M 10KOHM, J, 1/10W	1	
	R5602	D0GA104JA023	M100KOHM, J, 1/16 W	1	
	R5663	D0GA104JA023	M100KOHM, J, 1/16 W	1	
	R5707	D0GDR00J0004	M 0 OHM, 1/8W	1	
	R8001	D0GA331JA023	M 330 OHM, J, 1/16W	1	
	R8100	D1BB1301A087	M 1.3KOHM, J, 1/10W	1	PAVCTH
	R8102	D1BB2101A087	M 2.1KOHM, J, 1/10W	1	
	R8104	D1BB8200A087	M 820 OHM, J, 1/10W	1	
	R8106	D1BB2001A087	M 2KOHM, J, 1/10W	1	
	R8108	D0GB100JA065	M 10 OHM J 1/10W	1	
	R8110	D0GB100JA065	M 10 OHM J 1/10W	1	
	R8114	D0GA243JA023	M 24K OHM J 0.063W	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R8118	D0GA183JA023	M 18K OHM J.1/16W	1	
	R8200	D1BA2400A014	M 240 OHM, J.1/16 W	1	
	R8203	D1BA1001A014	M 1KOHM, J. 1/16 W	1	
	R8204	D1BA1001A014	M 1KOHM, J. 1/16 W	1	
	R8205	D1BA1001A014	M 1KOHM, J. 1/16 W	1	
	R8206	D1BA1001A014	M 1KOHM, J. 1/16 W	1	
	R8207	D1BA1001A014	M 1KOHM, J. 1/16 W	1	
	R8208	D1BA1001A014	M 1KOHM, J. 1/16 W	1	
	R8217	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R8218	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R8219	D1BA2400A014	M 240 OHM, J.1/16 W	1	
	R8220	D1BA2400A014	M 240 OHM, J.1/16 W	1	
	R8221	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8222	EXB28V330J	M 33 OHM 1/32 W	1	
	R8223	EXB28V330J	M 33 OHM 1/32 W	1	
	R8224	D1BA1001A014	M 1KOHM, J. 1/16 W	1	
	R8225	D1BA1001A014	M 1KOHM, J. 1/16 W	1	
	R8301	D0GA681JA023	M680 OHM, J,1/16W	1	
	R8302	D0GA360JA023	M 36 OHM, J,1/16W	1	PAVCTH
	R8303	D0GA360JA023	M 36 OHM, J,1/16W	1	PAVCTH
	R8304	D1BA6201A014	M 6.2KOHM, J.1/16 W	1	
	R8305	D1BA6201A014	M 6.2KOHM, J.1/16 W	1	
	R8306	D0GA243JA023	M 24K OHM J 0.063W	1	
	R8381	D1BA75R0A014	M 75 OHM, J.1/16 W	1	
	R8382	D1BA75R0A014	M 75 OHM, J.1/16 W	1	
	R8383	D1BA75R0A014	M 75 OHM, J.1/16 W	1	
	R8384	D1BA75R0A014	M 75 OHM, J.1/16 W	1	
	R8385	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8386	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8387	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8439	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8440	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8531	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8532	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8533	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8534	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8535	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8536	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8571	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8572	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8573	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8574	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8575	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R8577	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8578	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8583	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R8606	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R8607	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R8608	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8609	D1BA6491A014	M6.49KOHM, J.1/16 W	1	
	R8610	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R8615	D0GA105JA023	M 1M OHM, J,1/16W	1	
	R8624	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8625	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8626	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8627	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8628	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8629	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8630	D1HG1038A002	NETWORK RESISTER	1	
	R8632	EXB28V560JX	M 56 OHM 1/32 W	1	
	R8634	EXB28V560JX	M 56 OHM 1/32 W	1	
	R8636	D0GA220JA023	M22 OHM, J.1/16 W	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R8639	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8640	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8641	D0GBR00J0004	M 0 OHM J 1/10W	1	
	R8644	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R8648	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8649	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8652	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8653	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8654	EXB28V560JX	M 56 OHM 1/32 W	1	
	R8655	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8656	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8657	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8658	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8659	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8660	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8661	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8669	F1G1H470A565	C 47PF, 50V	1	
	R8670	F1G1H470A565	C 47PF, 50V	1	
	R8704	D1BB5362A055	M53.6KOHM, J, 1/10W	1	PAVCTH
	R8705	D1BB1002A055	M 10KOHM, J, 1/10W	1	
	R8706	D0GB390JA065	M 39 OHM, J, 1/10W	1	PAVCTH
	R8707	D1BB1002A055	M 10KOHM, J, 1/10W	1	
	R8708	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8709	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8710	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8755	D0GA104JA023	M100KOHM, J, 1/16 W	1	
	R8756	D0GB390JA065	M 39 OHM, J, 1/10W	1	PAVCTH
	R8757	D1BB4301A055	M4.30KOHM, J, 1/10W	1	
	R8758	D1BB2402A055	M 24KOHM, J, 1/10W	1	
	R8759	D1BB6041A055	M 6.04KOHM, J, 1/10W	1	
	R8760	D0GA473JA015	M 47KOHM, J, 1/16W	1	
	R8830	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8831	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8832	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8833	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8834	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8835	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8836	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8837	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8838	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8839	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8840	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8873	EXB2HV103JV	M 10 kOHM 1/16 W	1	
	R8874	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8909	D0GA222JA023	M 2.2KOHM, J, 1/16W	1	
	R8910	D0GA103JA015	M 10KOHM, J, 1/16W	1	
	R8911	D0GA101JA015	M 100 OHM, J, 1/16W	1	
	R8914	D0GA472JA023	M 4.7KOHM, J, 1/16W	1	
	R8919	D0GA101JA015	M 100 OHM, J, 1/16W	1	
	R8924	D0GA472JA023	M 4.7KOHM, J, 1/16W	1	
	R8931	D0GA220JA023	M22 OHM, J, 1/16 W	1	
	R8932	D0GA220JA023	M22 OHM, J, 1/16 W	1	
	R8933	D0GA220JA023	M22 OHM, J, 1/16 W	1	
	R8934	D0GA220JA023	M22 OHM, J, 1/16 W	1	
	R8935	D0GA220JA023	M22 OHM, J, 1/16 W	1	
	R8936	D0GA220JA023	M22 OHM, J, 1/16 W	1	
	R8937	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8938	EXB2HV470JV	M 47 OHM 1/16 W	1	
	R8939	EXB28V560JX	M 56 OHM 1/32 W	1	
	R8940	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8941	D0GA560JA023	M 56 OHM, J, 1/16W	1	
	R8950	D0GA473JA015	M 47KOHM, J, 1/16W	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R8953	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8954	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8955	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8956	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8957	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8958	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8959	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8960	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R8961	EXB28V332J	M 3.3 KOHM 1/32 W	1	
	R8963	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8964	D0GA103JA015	M 10KOHM, J,1/16W	1	
	R8965	EXB28V103JX	M 10KOHM 1/32 W	1	
	R8967	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8968	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R9035	D0GA332JA023	M 3.3KOHM, J,1/16W	1	
	R9105	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R9108	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R9198	EXB38V101JV	M 100 OHM 1/16 W	1	
	R9203	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R9205	D0GA333JA023	M 33KOHM, J,1/16W	1	
	R9206	D0GA563JA023	M 56KOHM, J,0.063W	1	PAVCTH
	R9208	EXB2HV470JV	M 47 OHM 1/16 W	1	
	R9209	EXB2HV470JV	M 47 OHM 1/16 W	1	
	R9307	D0GA470JA023	M 47 OHM, J,1/16W	1	
	R9308	D0GA470JA023	M 47 OHM, J,1/16W	1	
	R9310	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R9320	D0GA122JA023	M 1.2KOHM, J,1/16W	1	
	R9321	D0GA105JA023	M 1M OHM, J,1/16W	1	
	R9323	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R9324	D0GB162JA065	M 1.6KOHM J 1/10W	1	PAVCTH
	R9325	D0GB162JA065	M 1.6KOHM J 1/10W	1	PAVCTH
	R9326	D0GB162JA065	M 1.6KOHM J 1/10W	1	PAVCTH
	R9327	D0GB162JA065	M 1.6KOHM J 1/10W	1	PAVCTH
	R9329	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R9330	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R9400	EXB2HV103JV	M 10 KOHM 1/16 W	1	
	R9401	EXB2HV103JV	M 10 KOHM 1/16 W	1	
	R9503	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R9504	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R9608	EXB2HV470JV	M 47 OHM 1/16 W	1	
	R9609	EXB38V470J	M 47 OHM 1/16 W	1	
	R9610	EXB38V470J	M 47 OHM 1/16 W	1	
	R9611	EXB38V470J	M 47 OHM 1/16 W	1	
	R9810	D0GB390JA065	M 39 OHM, J,1/10W	1	PAVCTH
	R9811	D1BB1502A055	M 15KOHM, J.1/10W	1	
	R9812	D1BB8061A087	M8.06 KOHM, J.1/10W	1	PAVCTH
	R9813	D1BB1002A087	M 10KOHM, J,1/10W	1	
	R9907	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R14349	D0GB103JA065	M 10K OHM J 1/10W	1	
	R14901	D0GD100JA052	M 10 OHM, J,1/4W	1	
	R14911	D0GB103JA065	M 10K OHM J 1/10W	1	
	R14943	D0GD470JA052	M 47 OHM, J,1/8W	1	PAVCTH
	R14944	D0GD100JA052	M 10 OHM, J,1/4W	1	
	R14949	D0GD203JA052	M 20KOHM, J,1/4W	1	PAVCTH
	R14950	D0GB103JA065	M 10K OHM J 1/10W	1	
	R14958	D0GB470JA065	M 47 OHM, J,1/10W	1	
	R14960	EXB38V470J	M 47 OHM 1/16 W	1	
	R14961	D0GD331JA052	M 330 OHM, J,1/4W	1	PAVCTH
	R14962	D0GD331JA052	M 330 OHM, J,1/4W	1	PAVCTH
	R14963	D0GD331JA052	M 330 OHM, J,1/4W	1	PAVCTH
	R14965	D0GD331JA052	M 330 OHM, J,1/4W	1	PAVCTH
	R14975	EXB38V470J	M 47 OHM 1/16 W	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R14989	D1BD1502A044	M 15KOHM,J,1/8 W	1	
	R16001	D0GF7R5JA047	M 7.5 OHM,J, 1/3W	1	
	R16003	D0GF7R5JA047	M 7.5 OHM,J, 1/3W	1	
	R16022	D0GF7R5JA047	M 7.5 OHM,J, 1/3W	1	
	R16023	D0GF7R5JA047	M 7.5 OHM,J, 1/3W	1	
	R16101	D0GD221JA059	M 220 OHM,J,1/4W	1	
	R16102	D0GD221JA059	M 220 OHM,J,1/4W	1	
	R16103	D0GD100JA059	M 10 OHM,J,1/4W	1	
	R16104	D0GD100JA059	M 10 OHM,J,1/4W	1	
	R16105	D0GF474JA048	M 470KOHM,J,1/3W	1	PAVCTH
	R16116	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16130	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16131	D0GB220JA065	M 22 OHM J 1/10W	1	PAVCTH
	R16132	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R16133	D1BD2700A044	M 270 OHM,J,1/8 W	1	
	R16134	D0GD750JA059	M 75 OHM,J,1/4W	1	
	R16135	D0GB4R7JA065	M 4.7 OHM J 1/10W	1	PAVCTH
	R16137	D0GF1R0JA047	M 1 OHM,J,1/3W	1	
	R16138	D0GF102JA048	M 1.0 KOHM,J,1/3W	1	PAVCTH
	R16141	D0GD100JA059	M 10 OHM,J,1/4W	1	
	R16143	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16161	D0GD100JA059	M 10 OHM,J,1/4W	1	
	R16163	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16191	D1BD2700A044	M 270 OHM,J,1/8 W	1	
	R16192	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16193	D0GD750JA052	M 75 OHM,J,1/8W	1	PAVCTH
	R16195	D0GF1R0JA047	M 1 OHM,J,1/3W	1	
	R16196	D0GF102JA048	M 1.0 KOHM,J,1/3W	1	PAVCTH
	R16197	D0GB220JA065	M 22 OHM J 1/10W	1	PAVCTH
	R16241	EXB38V470J	M 47 OHM 1/16 W	1	
	R16242	EXB38V472JV	M 4.7 kOHM 1/16 W	1	
	R16280	D0GB222JA065	M 2.2KOHM,J,1/10W	1	
	R16281	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16282	D0GD221JA052	M 220 OHM,J 1/4W	1	PAVCTH
	R16283	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16284	D0GB224JA065	M 220KOHM,J,1/10W	1	PAVCTH
	R16285	EXB38V823JV	M 82 kOHM 1/16 W	1	PAVCTH
	R16289	D0GF334JA047	M 330KOHMJ,1/3W	1	
	R16290	D0GF334JA047	M 330KOHMJ,1/3W	1	
	R16307	D1BD6802A077	M68.0KOHM,D,1/10W	1	PAVCTH
	R16318	D1BD6982A077	M69.8KOHM,D,1/10W	1	PAVCTH
	R16319	D1BD2401A077	M 2.4KOHM,D,1/10W	1	PAVCTH
	R16320	ERG1SJ683	M 68KOHM, J, 1W	1	
	R16330	D0GB102JA065	M 1KOHM,J,1/10W	1	
	R16332	D0GB474JA065	M 470KOHM,J,1/10W	1	
	R16334	D0GB472JA065	M 4.7KOHM, J,1/10W	1	
	R16335	D0GB102JA065	M 1KOHM,J,1/10W	1	
	R16401	D0GF7R5JA047	M 7.5 OHM,J, 1/3W	1	
	R16402	D0GF7R5JA047	M 7.5 OHM,J, 1/3W	1	
	R16411	D1BD2700A044	M 270 OHM,J,1/8 W	1	
	R16412	D1BD2700A044	M 270 OHM,J,1/8 W	1	
	R16413	D0GB331JA065	M330 OHM J 1/10W	1	PAVCTH
	R16414	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16416	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16421	D0GF7R5JA047	M 7.5 OHM,J, 1/3W	1	
	R16422	D0GF7R5JA047	M 7.5 OHM,J, 1/3W	1	
	R16423	D0GF7R5JA047	M 7.5 OHM,J, 1/3W	1	
	R16441	D0GF5R6JA047	M 5.6 OHM,J, 1/3W	1	
	R16451	D0GF5R6JA047	M 5.6 OHM,J, 1/3W	1	
	R16471	D0GB392JA065	M 3.9KOHM,J,1/10W	1	PAVCTH
	R16472	D0GB222JA065	M 2.2KOHM,J,1/10W	1	
	R16473	D0GD561JA052	M 560 OHM,J,1/4W	1	PAVCTH

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R16474	D0GB102JA065	M 1KOHM,J,1/10W	1	
	R16475	D0GB472JA065	M 4.7KOHM, J,1/10W	1	
	R16476	D0GB222JA065	M 2.2KOHM,J,1/10W	1	
	R16479	D0GD103JA052	M 10KOHM,J,1/8W	1	PAVCTH
	R16490	D1BD1203A077	M 120KOHM,D.1/10W	1	PAVCTH
	R16491	D1BD1203A077	M 120KOHM,D.1/10W	1	PAVCTH
	R16492	D1BD1203A077	M 120KOHM,D.1/10W	1	PAVCTH
	R16493	D1BD2002A077	M 20KOHM,D.1/10W	1	PAVCTH
	R16494	D1BB2001A055	M 2KOHM,J.1/10W	1	
	R16497	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16498	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16501	D0GB220JA065	M 22 OHM J 1/10W	1	PAVCTH
	R16503	D0GD100JA059	M 10 OHM,J,1/4W	1	
	R16505	D0GF102JA048	M 1.0 KOHM,J,1/3W	1	PAVCTH
	R16506	D0GD100JA059	M 10 OHM,J,1/4W	1	
	R16507	D0GB220JA065	M 22 OHM J 1/10W	1	PAVCTH
	R16508	D0GB220JA065	M 22 OHM J 1/10W	1	PAVCTH
	R16509	D0GF102JA048	M 1.0 KOHM,J,1/3W	1	PAVCTH
	R16512	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16515	D0D52R2KA005	M 2.2 OHM,J,5W	1	PAVCTH
	R16517	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16522	D0GF101JA048	M 100 OHM,J,1/3W	1	PAVCTH
	R16525	D0GB4R7JA065	M 4.7 OHM J 1/10W	1	PAVCTH
	R16531	D0GD100JA059	M 10 OHM,J,1/4W	1	
	R16532	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16534	D0GF561JA047	M 560 OHM,J, 1/3W	1	PAVCTH
	R16536	D0GF5R6JA047	M 5.6 OHM,J, 1/3W	1	
	R16537	D0GF5R6JA047	M 5.6 OHM,J, 1/3W	1	
	R16538	D0GF5R6JA047	M 5.6 OHM,J, 1/3W	1	
	R16541	D0GF393JA047	M 39 KOHM,J, 1/3W	1	PAVCTH
	R16542	D0GF393JA047	M 39 KOHM,J, 1/3W	1	PAVCTH
	R16543	D1BD6811A044	M6.81KOHM,J.1/8 W	1	
	R16544	D1BB1001A055	M 1KOHM,J. 1/10W	1	
	R16545	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16551	D0GD100JA059	M 10 OHM,J,1/4W	1	
	R16552	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16561	EXB38V470J	M 47 OHM 1/16 W	1	
	R16562	EXB38V470J	M 47 OHM 1/16 W	1	
	R16563	EXB38V470J	M 47 OHM 1/16 W	1	
	R16564	EXB38V470J	M 47 OHM 1/16 W	1	
	R16565	EXB38V472JV	M 4.7 KOHM 1/16 W	1	
	R16566	EXB38V472JV	M 4.7 KOHM 1/16 W	1	
	R16567	EXB38V472JV	M 4.7 KOHM 1/16 W	1	
	R16568	EXB38V472JV	M 4.7 KOHM 1/16 W	1	
	R16570	EXB38V472JV	M 4.7 KOHM 1/16 W	1	
	R16573	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16579	EXB38V470J	M 47 OHM 1/16 W	1	
	R16581	D0GB223JA065	M 22KOHM,J,1/10W	1	PAVCTH
	R16586	D1BB3921A055	M3.92KOHM, 1/10W	1	PAVCTH
	R16587	D0GB222JA065	M 2.2KOHM,J,1/10W	1	
	R16590	D0GB221JA065	M 220 OHM J 1/10W	1	
	R16591	EXB38V472JV	M 4.7 KOHM 1/16 W	1	
	R16593	D1BB1581A055	M 1.58KOHM 1/10W	1	
	R16601	D0GF1R0JA047	M 1 OHM,J,1/3W	1	
	R16604	D0GD331JA052	M 330 OHM,J,1/4W	1	PAVCTH
	R16607	D1BB4871A055	M4.87KOHM,J.1/10W	1	PAVCTH
	R16609	D0GF102JA047	M 1.0 KOHM,J,1/3W	1	
	R16610	D0GB104JA065	M 100KOHM J 1/10W	1	
	R16612	D0GD470JA059	M 47 OHM,J,1/4W	1	
	R16615	D1BB8250A055	M 825 OHM, 1/10W	1	PAVCTH
	R16617	D0GD222JA052	M 2.2KOHM,J,1/8W	1	PAVCTH
	R16619	D0GF1R0JA047	M 1 OHM,J,1/3W	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R16621	D0GD221JA052	M 220 OHM, J 1/4W	1	PAVCTH
	R16622	D0GD221JA052	M 220 OHM, J 1/4W	1	PAVCTH
	R16631	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16633	D0GD223JA052	M 22KOHM, J, 1/4W	1	PAVCTH
	R16634	D0GD222JA052	M 2.2KOHM, J, 1/8W	1	PAVCTH
	R16658	D1BD9091A077	M 9.09KOHM, D.1/10W	1	PAVCTH
	R16661	D0GD100JA059	M 10 OHM, J, 1/4W	1	
	R16662	D1BB1002A087	M 10KOHM, J.1/10W	1	
	R16663	D1BD9091A077	M 9.09KOHM, D.1/10W	1	PAVCTH
	R16664	D0GF202JA047	M 2KOHM, J, 1/3W	1	
	R16665	D0GD222JA052	M 2.2KOHM, J, 1/8W	1	PAVCTH
	R16666	D1BB1003A087	M100KOHM, D 1/10W	1	PAVCTH
	R16674	D0GF202JA047	M 2KOHM, J, 1/3W	1	
	R16675	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16676	D1BD2700A044	M 270 OHM, J.1/8 W	1	
	R16677	D0GF202JA047	M 2KOHM, J, 1/3W	1	
	R16678	D0GF202JA047	M 2KOHM, J, 1/3W	1	
	R16681	D0GD100JA059	M 10 OHM, J, 1/4W	1	
	R16682	D0GD100JA059	M 10 OHM, J, 1/4W	1	
	R16684	D0GB220JA065	M 22 OHM J 1/10W	1	PAVCTH
	R16685	D1BD1500A044	M 150 OHM, J.1/8 W	1	
	R16686	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16761	D0GD100JA059	M 10 OHM, J, 1/4W	1	
	R16763	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16772	D0GB472JA065	M 4.7KOHM, J, 1/10W	1	
	R16773	D0GD102JA052	M 1.0KOHM, J, 1/8W	1	PAVCTH
	R16776	D0GD470JA052	M 47 OHM, J, 1/8W	1	PAVCTH
	R16786	D1BD5492A044	M54.9KOHM, F.1/8W	1	PAVCTH
	R16791	D0GB102JA065	M 1KOHM, J, 1/10W	1	
	R16815	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16822	D1BD8202A044	M 82KOHM, J.1/8 W	1	
	R16823	D1BD6982A044	M69.8KOHM, F.1/8W	1	PAVCTH
	R16824	D1BD3652A044	M36.5KOHM, F.1/8W	1	PAVCTH
	R16825	D0GD154JA059	M 150KOHM, J, 1/4W	1	
	R16826	D0GB103JA065	M 10K OHM J 1/10W	1	
	R16829	D0GB102JA065	M 1KOHM, J, 1/10W	1	
	R16831	D1BD6812A077	M68.1KOHM, D.1/10W	1	PAVCTH
	R16832	D1BD7152A077	M71.5K0OHM, D.1/10W	1	PAVCTH
	R16833	ERG1SJ683	M 68KOHM, J, 1W	1	
	R16834	ERG1SJ683	M 68KOHM, J, 1W	1	
	R16838	ERG1FJS104D	M 100KOHM, J, 1W	1	
	R16841	D0GB472JA065	M 4.7KOHM, J, 1/10W	1	
	R16842	D0GD102JA052	M 1.0KOHM, J, 1/8W	1	PAVCTH
	R16844	ERA6YEB242	M 2.4KOHM, B 1/10W	1	
	R16845	D1BD6982A077	M69.8KOHM, D.1/10W	1	PAVCTH
	R16846	D1BD6042A077	M60.4KOHM, D.1/10W	1	PAVCTH
	R16847	D1BD6492A077	M64.9KOHM, D.1/10W	1	PAVCTH
	R16851	D0GB474JA065	M 470KOHM, J, 1/10W	1	
	R16852	D0GB474JA065	M 470KOHM, J, 1/10W	1	
	R16856	D0GB102JA065	M 1KOHM, J, 1/10W	1	
	R16873	ERA6YEB242	M 2.4KOHM, B 1/10W	1	
	R16891	D1BF5762A058	M 57.6KOHM, 1/4W	1	PAVCTH
	R16892	D1BF5902A058	M 59KOHM, 1/4W	1	PAVCTH
	R16893	D1BF5902A058	M 59KOHM, 1/4W	1	PAVCTH
	R16894	D1BB1211A087	M1.12KOHM, D1/10W	1	PAVCTH
	R16895	D1BB7871A087	M7.87KOHM, J.1/10W	1	PAVCTH
	R16896	D1BF5902A058	M 59KOHM, 1/4W	1	PAVCTH
	R16897	D1BB3922A055	M39.2KOHM, 1/10W	1	PAVCTH
	R16898	D1BB5231A055	M5.23KOHM, J.1/10W	1	PAVCTH
	R16899	D1BB5231A055	M5.23KOHM, J.1/10W	1	PAVCTH
	R16900	D1BB1182A055	M11.8KOHM, 1/10W	1	PAVCTH
	R16901	D1BB2801A055	M2.8KOHM, 1/10W	1	PAVCTH

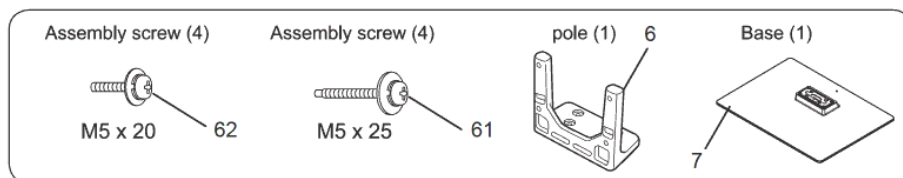
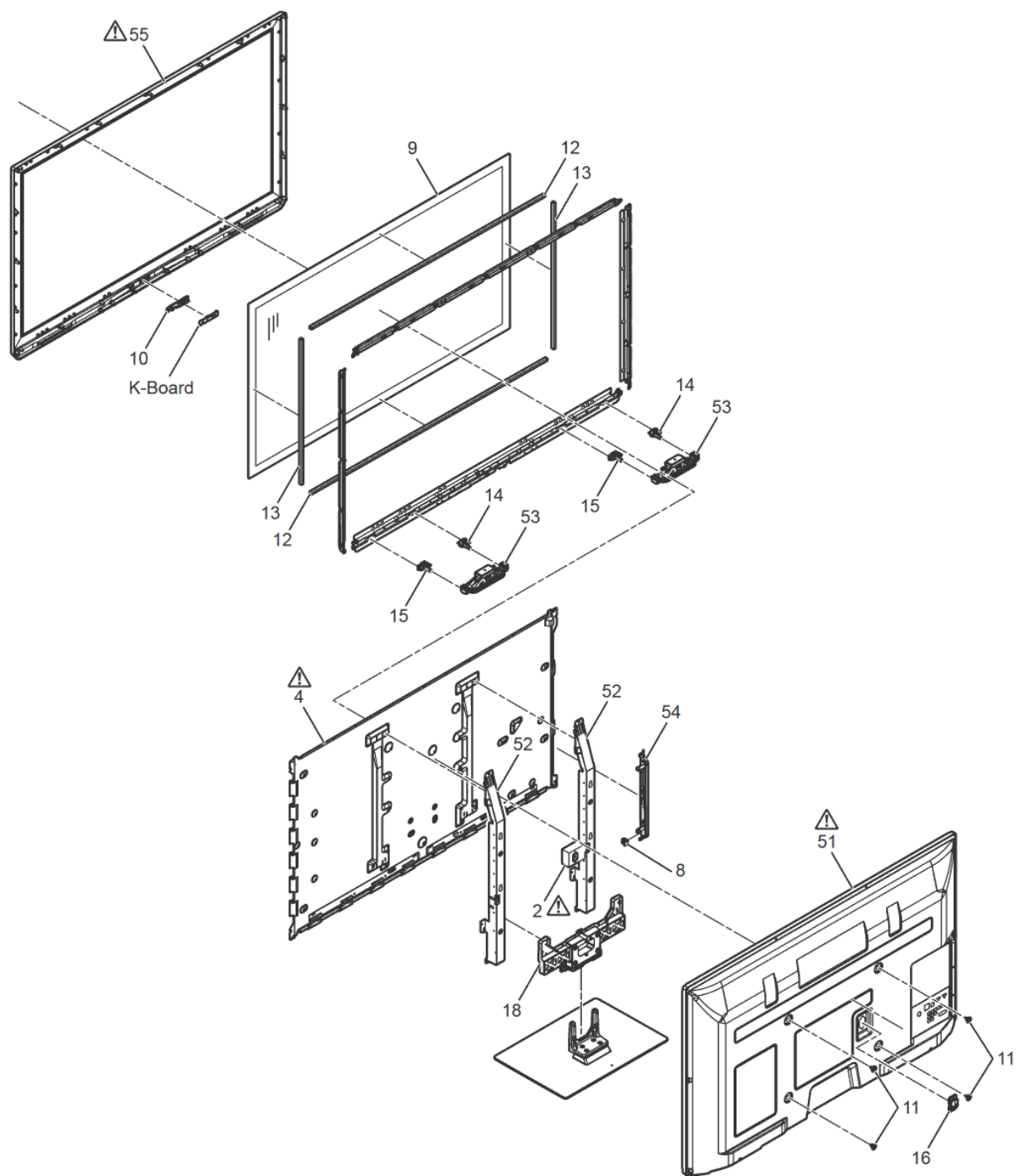
Model No. : TH-P50X30D/G/K/M/P/S/V Parts List

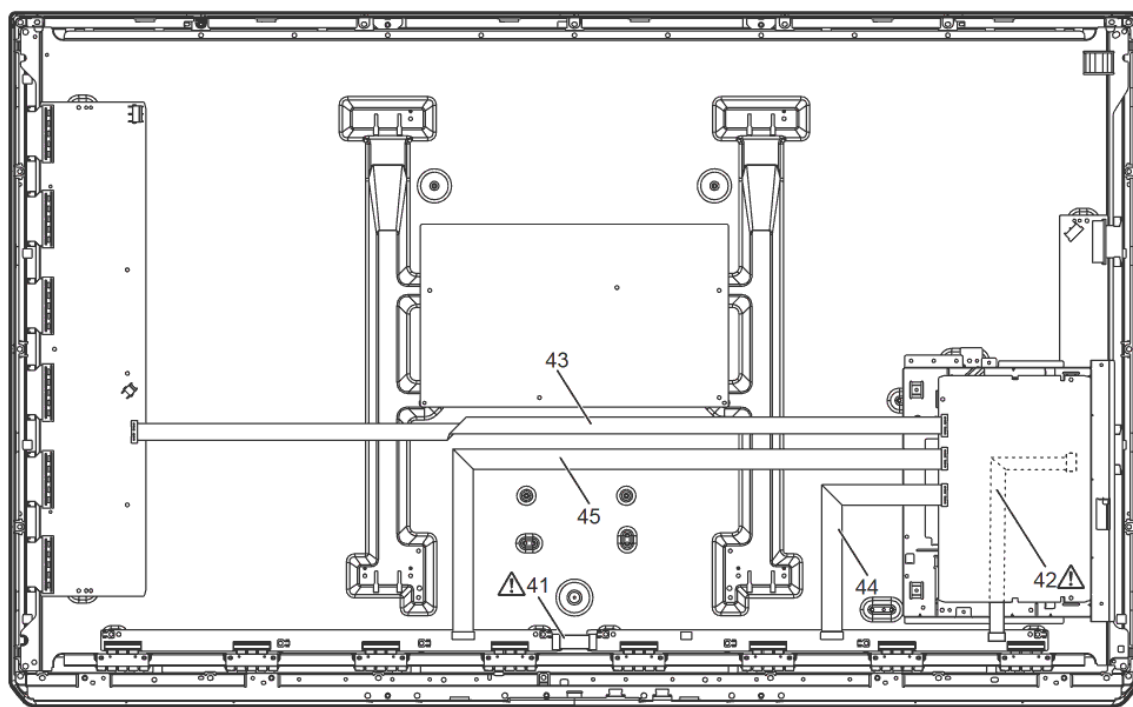
Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R16902	D0GB6R2JA065	M 6.2 OHM J 1/10W	1	PAVCTH
	R16921	D1BB2152A055	M 21.5KOHM, 1/10W	1	PAVCTH
	R16922	D1BB9531A055	M9.53KOHM,J,1/10W	1	
	R16937	D0GB184JA065	M 180KOHM J 1/10W	1	PAVCTH
	R16939	D0GD102JA052	M 1.0KOHM,J,1/8W	1	PAVCTH
	R16940	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16941	D0GB472JA065	M 4.7KOHM, J,1/10W	1	
	R16942	D0GB473JA065	M 47KOHM J. 1/10W	1	PAVCTH
	R16945	D0GB471JA065	M 470 OHM,J,1/10W	1	PAVCTH
	R17101	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17102	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17103	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17104	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17105	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17106	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17107	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17108	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17131	D0GZ1R0JA020	M 1 OHM, J,1/2W	1	
	R17133	D0GZ1R0JA020	M 1 OHM, J,1/2W	1	
	R17135	D0GZ1R0JA020	M 1 OHM, J,1/2W	1	
	R17137	D0GZ1R0JA020	M 1 OHM, J,1/2W	1	
	R17161	D0GB470JA065	M 47 OHM,J,1/10W	1	
	R17162	D0GB470JA065	M 47 OHM,J,1/10W	1	
	R17163	D0GB681JA065	M 680 OHM,J,1/10W	1	PAVCTH
	R17164	D0GB681JA065	M 680 OHM,J,1/10W	1	PAVCTH
	R17169	EXB38V470J	M 47 OHM 1/16 W	1	
	R17170	EXB38V681J	M 680 OHM 1/16 W	1	
	R17198	D0GD224JA052	M 220KOHM,J,1/8W	1	PAVCTH
	R17199	D0GF151JA047	M 150 OHM,J, 1/3W	1	
	R17201	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17202	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17203	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17204	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17205	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17206	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17207	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17208	D0GB101JA065	M 100 OHM,J,1/10W	1	
	R17213	D0GZ1R0JA020	M 1 OHM, J,1/2W	1	
	R17215	D0GZ1R0JA020	M 1 OHM, J,1/2W	1	
	R17227	D0GZ1R0JA020	M 1 OHM, J,1/2W	1	
	R17229	D0GZ1R0JA020	M 1 OHM, J,1/2W	1	
	R17261	D0GB470JA065	M 47 OHM,J,1/10W	1	
	R17262	D0GB470JA065	M 47 OHM,J,1/10W	1	
	R17263	D0GB681JA065	M 680 OHM,J,1/10W	1	PAVCTH
	R17264	D0GB681JA065	M 680 OHM,J,1/10W	1	PAVCTH
	R17267	EXB38V470J	M 47 OHM 1/16 W	1	
	R17268	EXB38V470J	M 47 OHM 1/16 W	1	
	R17269	EXB38V681J	M 680 OHM 1/16 W	1	
	R17270	EXB38V681J	M 680 OHM 1/16 W	1	
	R17298	D0GD224JA052	M 220KOHM,J,1/8W	1	PAVCTH
	R17299	D0GF151JA047	M 150 OHM,J, 1/3W	1	
	RM2810	B3RAD0000168	REMOTE SENSOR	1	
	SN2	K1KY02B00012	2P CONNECTOR	1	
	SN3	K1KY03BA0236	3P CONNECTOR	1	
	SN20	K1MY30BA0345	30P CONNECTOR	1	
	SN21	K1MND6BA0264	6P CONNECTOR	1	
	SN22	K1MND6BA0264	6P CONNECTOR	1	
	SN23	K1MND6BA0264	6P CONNECTOR	1	
	SN24	K1MND6BA0264	6P CONNECTOR	1	
	SN25	K1MND6BA0264	6P CONNECTOR	1	

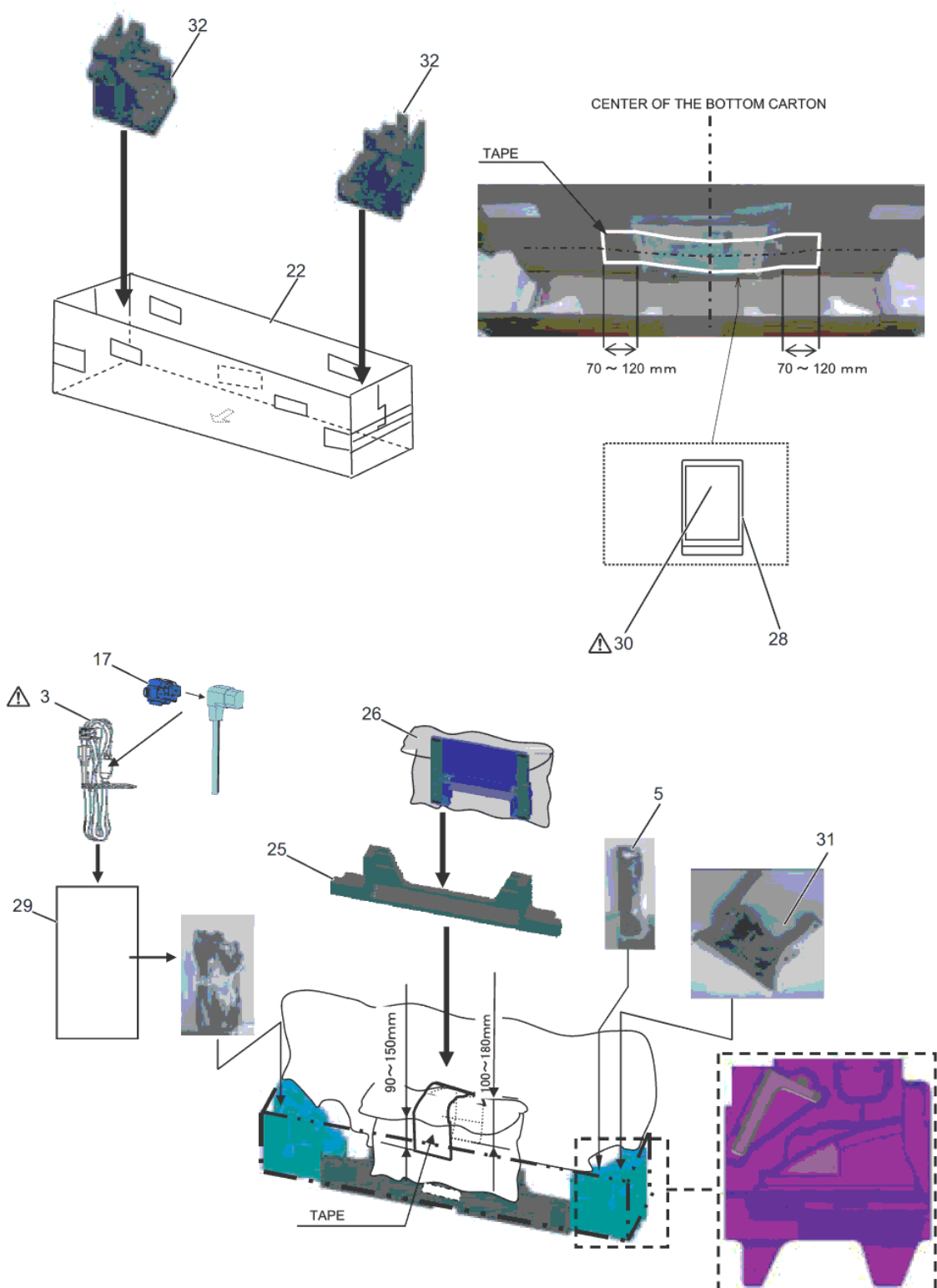
Model No. : TH-P50X30D/G/K/M/P/S/V Parts List

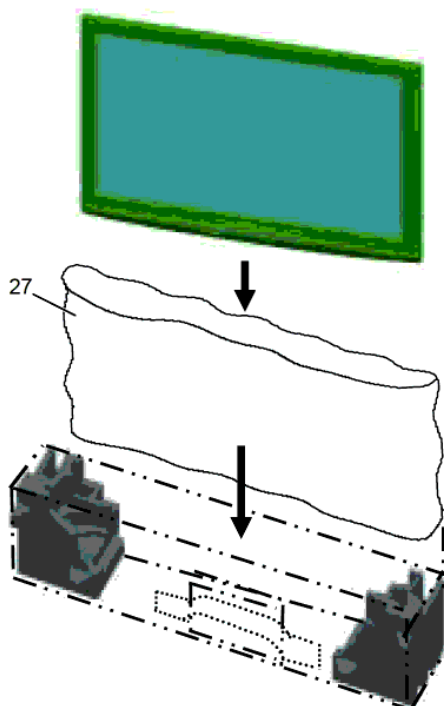
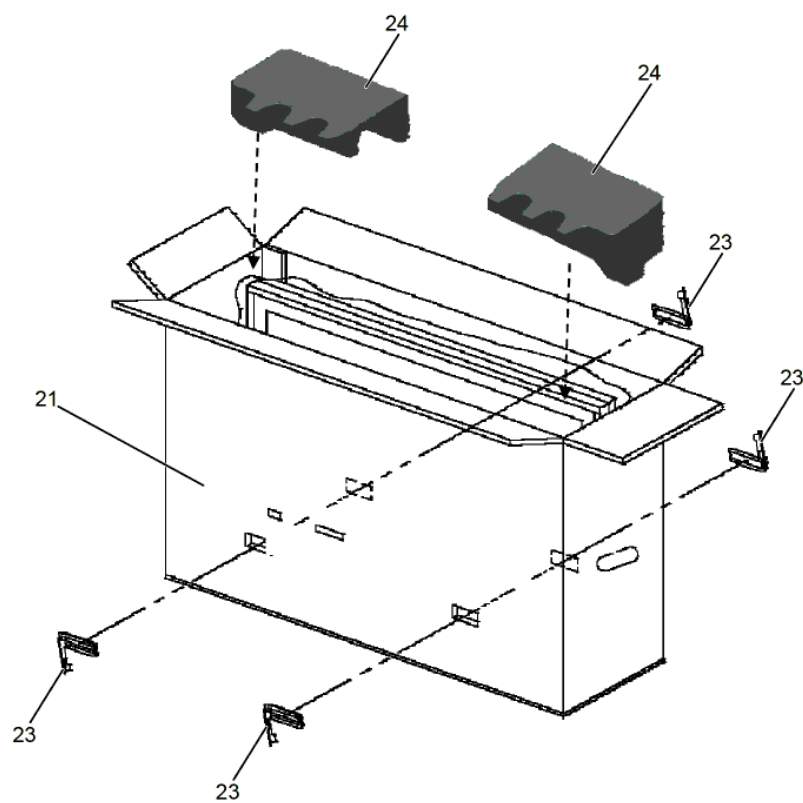
Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	SN26	K1MND6BA0264	6P CONNECTOR	1	
	SN2810	B3JB00000078	IC	1	
	SS3	K1KY03BA0236	3P CONNECTOR	1	
	SS11	K1KY03B00006	3P CONNECTOR	1	
	SS23	K1MY20BA0345	20P CONNECTOR	1	
	SS52	K1MY13BA0376	13P CONNECTOR	1	
	SS55	K1MY13BA0376	13P CONNECTOR	1	
	SW2050	K0H1BA000445	SWITCH	1	
	SW2051	K0H1BA000445	SWITCH	1	
	SW2052	K0H1BA000445	SWITCH	1	
	SW2053	K0H1BA000445	SWITCH	1	
	SW2054	K0H1BA000445	SWITCH	1	
	SW2057	K0F122A00031	SWITCH	1	
	T8301	G5BYC0000015	TRANS	1	
	T16471	G4DYA0000253	SWITCHING TRANS	1	PAVCTH
	T16472	G4DYA0000252	SWITCHING TRANS	1	PAVCTH
	TU4801	ENG57302D5F	TUNER	1	(G) (S) PAVCTH
	TU4801	ENG59301D5RF	TUNER	1	(D) (K) (M) (P) (V) PAVCTH
	X8300	H0J245500113	CRYSTAL	1	
	X8600	H0J250500109	CRYSTAL	1	
	X9300	H0J200500076	CRYSTAL	1	
	ZA16002	K4AZ01D00004	TERMINAL	1	
	ZA16402	K4AZ01D00004	TERMINAL	1	
	ZA16403	K4AZ01D00004	TERMINAL	1	
	ZA17103	K4CD01000013	AV TERMINAL	1	
	ZA17203	K4CD01000013	AV TERMINAL	1	

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	2	K2AHYH000042	AC INLET WITH CABLE	1	PAVCTH
	3	K2CN3YY00006	AC CORD	1	(G) (V)
	3	K2CT3YY00021	AC CORD	1	(K) (M) (S)
	3	K2CT3YY00033	AC CORD	1	(P) PAVCTH
	3	K2CZ3YY00010	AC CORD	1	(D)
	4	MD50H14A1J	PLASMA DISPLAY PANEL	1	
	5	N2QAYB000603	REMOTE CONTROL	1	(D) (K) (M) (P) (V) PAVCTH
	5	N2QAYB000604	REMOTE CONTROL	1	(G) (S) PAVCTH
	6	TBL5ZA3035	STAND POLE	1	PAVCTH
	7	TBL5ZX0052	PEDESTAL STAND	1	PAVCTH
	8	TBX4TA00201	POWER BUTTON	1	
	61	THEL087N	SCREW M5x25	4	PAVCTH
		THEJ036J	SCREW(TUNER SHEILD:3)	3	
		THEJ0409	SCREW	8	Chap.3.1.(3)
		THEL052Z	SCREW	14	Chap.3.1.(1)
	9	TKGA5670	FRONT GLASS	1	PAVCTH
	10	TKK4TC5010	LED PANEL	1	
	11	TKKL5493	M8 CAP	4	Chap.3.1.(6)
	12	TMK4TG005	SPONGE (FRONT GLASS/UPPER/BOTTOM)	2	PAVCTH
	13	TMK4TG006	SPONGE (FRONT GLASS/LEFT/RIGHT)	2	PAVCTH
		TMME332	CLAMPER (HANGER:4 STAND_BRACKET:2)	6	
		TMME397	SPACER	3	PAVCTH
	14	TMW4TX001	SP BRACKET L	2	
	15	TMW4TX002	SP BRACKET R	2	
	17	TMXX064	AC CORD CLAMPER A	1	
	16	TMXX065	AC CORD CLAMPER B	1	
	18	TMZ4TX5006	STAND BRACKET	1	
	21	TPC4TA02803A	CARTON BOX TOP (WITH STAMP)	1	(D) PAVCTH
	21	TPC4TA02804A	CARTON BOX TOP (WITH STAMP)	1	(G) PAVCTH
	21	TPC4TA02805A	CARTON BOX TOP (WITH STAMP)	1	(K) PAVCTH
	21	TPC4TA02806A	CARTON BOX TOP (WITH STAMP)	1	(M) PAVCTH
	21	TPC4TA02807A	CARTON BOX TOP (WITH STAMP)	1	(P) PAVCTH
	21	TPC4TA02809A	CARTON BOX TOP (WITH STAMP)	1	(S) PAVCTH
	21	TPC4TA02811A	CARTON BOX TOP (WITH STAMP)	1	(V) PAVCTH
	22	TPC4TA02901	CARTON BOX BOTTOM	1	PAVCTH
	23	TPD169487	JOINT	4	
	25	TPD4TA0040	PEDESTAL CUSHION	1	PAVCTH
	24	TPD4TA0056	TOP CUSHION	1	PAVCTH
	32	TPD4TA0057	BOTTOM CUSHION	1	PAVCTH
	26	TPE4TB007	BAG (PEDESTAL STAND)	1	PAVCTH
	27	TPE4TH002	SET BAG	1	PAVCTH
	28	TPE4TP001	BAG (INSTRUCTION BOOK)	1	PAVCTH
	29	TPE4TP002	BAG FOR AC CORD	1	PAVCTH
	30	TQB4TC0027-1	INSTRUCTION BOOK (ENGLISH)	1	(D) (K) (M) (P) (V) PAVCTH
	30	TQB4TC0029-1	INSTRUCTION BOOK (ARABIC)	1	(M) (P) PAVCTH
	30	TQB4TC0030-1	INSTRUCTION BOOK (S-CHINESE)	1	(K) PAVCTH
	30	TQB4TC0031-1	INSTRUCTION BOOK (VIETNAMESE)	1	(V) PAVCTH
	30	TQB4TC0038-1	INSTRUCTION BOOK (ENGLISH)	1	(G) (S) PAVCTH
	30	TQB4TC0039-1	INSTRUCTION BOOK (INDONESIA)	1	(G) PAVCTH
	30	TQB4TC0040-1	INSTRUCTION BOOK (S-CHINESE)	1	(S) PAVCTH
	31	TQE4TF001	BAG (STAND ACCESSORY)	1	PAVCTH
		TQZ4TH004	SCREW USE HANDBILE	1	PAVCTH
	41	TSXL927	CABLE (C10-C20)	1	
	42	TSXM230	CABLE (C23-SS23)	1	PAVCTH
	43	TSXM248	CABLE (A23-SN20)	1	PAVCTH
	44	TSXM250-1	CABLE (A34-C21)	1	PAVCTH
	45	TSXM438	CABLE (A33-C11)	1	PAVCTH
	51	TTU4TA0050	REAR COVER	1	(G) PAVCTH
	51	TTU4TA0053	REAR COVER	1	(M) PAVCTH
	51	TTU4TA0055	REAR COVER	1	(S) PAVCTH
	51	TTU4TA0056	REAR COVER	1	(D) PAVCTH
	51	TTU4TA0060	REAR COVER	1	(K) PAVCTH

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Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	51	TTU4TA0063	REAR COVER	1	(P) PAVCTH
	51	TTU4TA0066	REAR COVER	1	(V) PAVCTH
	52	TUX4TA012	50HANGER METAL	2	PAVCTH
	53	TXFEA01NNUA	SPEAKER L/R ASSY	2	PAVCTH
	54	TXFKP01NNUA	SIDE TERMINAL COVER ASSY	1	PAVCTH
	55	TXFKY5Z0159	CABINET ASSY	1	PAVCTH
		TXJA11NMUA	SPEAKER LEAD (A11-SPL/SPR)	1	PAVCTH
		XSB3+6FJ	SCREW (HDMI-SIDE:1)	1	
		XTB4+12GFJ	SCREW (GH:18)	18	
		XTB4+12GFJK	SCREW (BC:11)	8	Chap.3.1.(2)
		XTV3+10JFJK	SCREW (REAR AV:2)	2	Chap.3.1.(4)
		XYN3+F10FJK	SCREW (BC-AC_INLET:2)	2	Chap.3.1.(5)
		XYN3+F8FJ	SCREW (A-PRINT:4)	4	
		XYN3+J10FJ	SCREW	1	
		XYN4+E8FJ	SCREW	1	
	62	XYN5+F20FN	SCREW M5x20 SILVER	4	