

LCD TELEVISION

SERVICE MANUAL

LC32U5D

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APPENDIX: EXPLODED VIEW

PART LIST

Attention: This service manual is only for service personnel to take reference with. Before servicing please read the following points carefully.

Safety instructions

1. Instructions

Be sure to switch off the power supply before replacing or welding any components or inserting/plugging in connection wire. Anti static measures to be taken (throughout the entire production process!):

- a) Do not touch here and there by hand at will;
- b) Be sure to use anti static electric iron;
- c) It's a must for the welder to wear anti static gloves.

Please refer to the detailed list before replacing components that have special safety requirements. Do not change the specs and type at will.

2. Points for attention in servicing of LCD

2.1 Screens are different from one model to another and therefore not interchangeable. Be sure to use the screen of the original model for replacement.

2.2 The operation voltage of LCD screen is 700-825V. Be sure to take proper measures in protecting yourself and the machine when testing the system in the course of normal operation or right after the power is switched off. Please do not touch the circuit or the metal part of the module that is in operation mode. Relevant operation is possible only one minute after the power is switched off.

2.3 Do not use any adapter that is not identical with the TV set. Otherwise it will cause fire or damage to the set.

2.4 Never operate the set or do any installation work in bad environment such as wet bathroom, laundry, kitchen, or nearby fire source, heating equipment and devices or exposure to sunlight etc. Otherwise bad effect will result.

2.5 If any foreign substance such as water, liquid, metal slices or other matters happens to fall into the module, be sure to cut the power off immediately and do not move anything on the module lest it should cause fire or electric shock due to contact with the high voltage or short circuit.

2.6 Should there be smoke, abnormal smell or sound from the module, please shut the power off at once. Likewise, if the screen is not working after the power is on or in the course of operation, the power must be cut off immediately and no more operation is allowed under the same condition.

2.7 Do not pull out or plug in the connection wire when the module is in operation or just after the power is off because in this case relatively high voltage still remains in the capacitor of the driving circuit. Please wait at least one minute before the pulling out or plugging in the connection wire.

2.8 When operating or installing LCD please don't subject the LCD components to bending, twisting or extrusion, collision lest mishap should result.

2.9 As most of the circuitry in LCD TV set is composed of CMOS integrated circuits, it's necessary to pay attention to anti statics. Before servicing LCD TV make sure to take anti static measure and ensure full grounding for all the parts that have to be grounded.

2.10 There are lots of connection wires between parts behind the LCD screen. When servicing or moving the set please take care not to touch or scratch them. Once they are damaged the screen

would be unable to work and no way to get it repaired.

2.11 Special care must be taken in transporting or handling it. Exquisite shock vibration may lead to breakage of screen glass or damage to driving circuit. Therefore it must be packed in a strong case before the transportation or handling.

2.12 For the storage make sure to put it in a place where the environment can be controlled so as to prevent the temperature and humidity from exceeding the limits as specified in the manual. For prolonged storage, it is necessary to house it in an anti-moisture bag and put them altogether in one place. The ambient conditions are tabulated as follows:

Temperature	Scope for operation	0 ~ +50 °C
	Scope for storage	-20 ~ +60 °C
Humidity	Scope for operation	20% ~ 85%
	Scope for storage	10% ~ 90%

2.13 Display of a fixed picture for a long time may result in appearance of picture residue on the screen, as commonly called “ghost shadow”. The extent of the residual picture varies with the maker of LCD screen. This phenomenon doesn’t represent failure. This “ghost shadow” may remain in the picture for a period of time (several minutes). But when operating it please avoid displaying still picture in high brightness for a long time.

3. Points for attention during installation

3.1 The front panel of LCD screen is of glass. When installing it please make sure to put it in place.

3.2 For service or installation it’s necessary to use specified screw lest it should damage the screen.

3.3 Be sure to take anti dust measures. Any foreign substance that happens to fall down between the screen and the glass will affect the receiving and viewing effect

3.4 When dismantling or mounting the protective partition plate that is used for anti vibration and insulation please take care to keep it in intactness so as to avoid hidden trouble.

3.5 Be sure to protect the cabinet from damage or scratch during service, dismantling or mounting.

Alignment instruction

1 Alignment equipment

PM5518 (video signal generator)

K-7253 (VGA signal generator)

CA210 (white balancer)

2 Alignment flow-chart

The alignment flow-chart is shown as fig-1

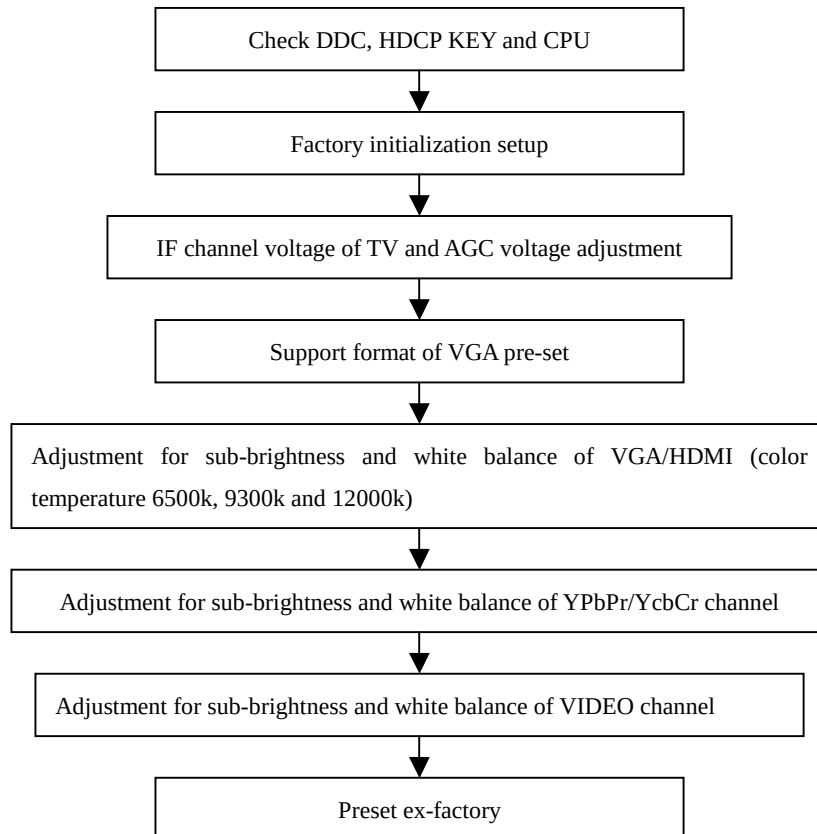


Fig-1 adjustment flow-chart

3 Unit adjustments

Connect digital board, CPU board and analog board according to wiring diagram, connect with power and observe the display.

Method for entering factory menu: press “SLP”, “DSP”, “MENU” and “DSP” in turn to enter factory menu; press “CH+” and “CH-” to select adjustment items and press “VOL+” and “VOL-” to adjust value items, press “MENU” to exit.

Note: the white balance adjustment should be done under “nature” picture mode.

3.1 Initialization

Enter factory menu, select “Factory settings” sub-menu, and adjustment for items of table1.

Table1 sub-menu adjustment

Items	Range	Introduce
PW on LOGO	ON/OFF	Display 5s LOGO of turn on the TV
NO Sig LOGO	ON/OFF	If display LOGO in no signal
Black Screen	BLUE/BLACK	If display blue screen and white noise wave in no signal, setting "BLUE"
MLK	120-159	Adjustment for clock frequency (MHz) of memorizer, setting "145".
PIP Size	Middle/Large	Select two component of PIP: "SMALL AND MIDDLE" and "SMALL AND BIG", setting "MIDDLE".
init EEprom	Start?	Eeprom Initialization (adjustment for EEprom data)

3.2 Adjustment for AFT voltage and AGC voltage of IF channel in TV

Input frequency for 45.75MHz and IF signal for 80dBV of TP1, adjust L107 to value 2.4v of TP2; when increase 0.10MHz of TP1 input signal, the TP2 value 1.0v at least; but decrease 0.10MHz of TP1 input signal, the TP2 value 4.0v at least.

3.3 VGA/DVI channel adjustment

3.3.1 Preset VGA channel mode

Input VGA signal (PATTERN: CROSS) of VG-849 or VG-848, select PROG850(640*400/85Hz), auto adjustment until the screen is filled with picture. Use the same method to do auto adjustment for the following items:

PROG851(640*480/72 Hz)	PROG852(640*480/75 Hz)	PROG853(800*600/56 Hz)
PROG854(800*600/60 Hz)	PROG855(800*600/72 Hz)	PROG856(1024*768/60 Hz)
PROG857(1024*768/70 Hz)	PROG858(1280*768/75 Hz)	PROG888(800*600/75 Hz)
PROG915(1152*870/75 Hz)	PROG915 (1280*1024/60Hz)	

3.3.2 Sub-brightness and White balance adjustment VGA/HDMI channel

a. Input VG-849 or VG-848 signal of VGA: PROG852(640* 480/75Hz) and eighth level gray-scale signal of PATTERN. Use color analyzer CA210 to adjust sub-brightness and white balance.

b. Enter submenu of COLOR TEMP., Select 9300k of color temperature, set auto value of R, G and B to 50. Enter submenu of white balance, preset value of offset_R, offset_G and offset_B to 125, and preset value of gain-R, gain-G and gain-B to 100. Adjustment for brightness let the second level brightness be 3nit at least.

c. Fixed value of offset_B, adjust offset_R and offset_G, let the color coordinate of the second level be 285 and 293 and its brightness be 4-5nit more or less (it can not 3.5nit at least). Fixed value of gain_B, adjust gain_R, gain_G and gain_B, let the color coordinate of seventh level be 285 and 293. Adjustment offset_R, offset_G, offset_B, gain_R, gain_G and gain_B repeatedly until the value of the two levels gray-scale be 285 and 293.

d. Select 6500k of color temperature, set auto value of R, G and B to 50. Fixed value of B to 50, adjust R and G, let the color coordinate of the sixth level be 313 and 329. Adjust R and G repeatedly until the color coordinate value to 313 and 329.

e. Select 12000k of color temperature, set auto value of R, G and B to 50. Fixed value of B to 50, adjust R and G, let the color coordinate of the sixth level be 270 and 283. Adjust R and G repeatedly until the color coordinate value to 270 and 283.

f. Input PROG852(640*480/75Hz) and the eighth level gray-scale of PATTERN signal of VG-849 to HDMI, repeatedly the b-e course. In the HDMI channel, preset value of offset_R, offset_G and offset_B to 15, preset value of gain_R, gain_G and gain_B to 25.

3.4 Adjustment for sub-brightness and white balance of YPbPr channel

- a. Connect YPbPr signal of VG-849 and VG-848 to YPbPr terminal, input color signal of PROG973(1080i)PATTERN964. Select AUTOTUNE item, wait for it displays "OK". NOTE: Don't select AUTOTUNE item in other state.
- b. Switch YPbPr signal of VG-849 and VG-848 output to the eighth gray-scale signal of PROG973(1080i)PATTERN964. preset value of offset_R, offset_G and offset_B to 15 and gain-R, gain-G and gain-B to 25. adjust brightness, let second bright to 3nit at least.
- c. Fixed value of offset_B, adjust offset_R and offset_G, let the color coordinate of the second level be 285 and 293 and its brightness be 4-5nit more or less (it can not 3.5nit at least). Fixed value of gain_B to 25, adjust gain_R, gain_G and gain_B, let the color coordinate of seventh level be 285 and 293. Adjustment offset_R, offset_G, gain_R and gain_G repeatedly until the value of the two levels gray-scale be fixed.
- d. Input PROG977(720p), PROG978(480p) and PROG968(480i) mode for eighth level gray-scale signal, let the color coordinate of the second level and the seventh level 285 and 293.

3.5 VIDEO channel adjustment (TV/VIDEO/S-VIDEO)

- a. Connect color bar signal of AV (PM5518, NTSC , eight level gray-scale signal) to VIDEO1 terminal, enter factory menu, preset value of offset_R, offset_G and offset_B to 15 and gain-R, gain-G and gain-B to 25, adjust brightness, let second bright to 3nit at least.
- b. Fixed value of offset-B to 15, adjust offset_R and offset_G, let the color coordinate of the second level be 285 and 293 and its brightness be 4-5nit more or less (it can not 3.5nit at least). Fixed value of gain_B to 25, adjust gain_R, gain_G and gain_B, let the color coordinate of seventh level be 285 and 293. Adjustment offset_R, offset_G, gain_R and gain_G repeatedly until the value of the two levels gray-scale be fixed.

4 Performance check

4.1 TV function

Enter searching menu → auto search, connect RF-TV terminal with central signal source and check if there are channels be skipped

4.2 AV/S, YpbPr terminals

Input AV/S, HD signal, check if it is normal.

4.3 VGA terminal

Insert VGA terminal, input VGA format signal of 640 X 480@60 Hz, check if the display is normal. If interference exists, press the auto adjusts button on remote control again and check if it is normal.

4.4 HDMI terminal

Insert HDMI terminal, input signal of 640 X 480@60 Hz signal and check if the display is normal.

4.5 check sound channel

Check the speaker and headphone of each channel.

4.6 presetting before ex-factory

Item	Setting
Picture mode	NATURE
Sound mode	NORMAL
N/R	WEAK
SCREEN	FULL

Item	Setting
OSD language	English
HALFTONE	50
DURATION	30
MAG.C	ON

Item	Setting
CCD	OFF
STEREO	ON
VGA/HDMI	NORMAL
ANTENNA	CATV

Trouble shooting

Before servicing please check to find the possible causes of the troubles according to the table below.

1.Antenna(signal):

Picture is out of focus or jumping	● Bad status in signal receiving ● Poor signal ● Check if there are failures with the electrical connector or the antenna. ● Check if the antenna is properly connected.
Fringe in picture	● Check if the antenna is correctly oriented. ● Maybe there is electric wave reflected from hilltop or building.
Picture is interfered by stripe shaped bright spots	● Possibly due to interference from automobile, train, high voltage transmission line, neon lamp etc. ● Maybe there is interference between antenna and power supply line. Please try to separate them in a longer distance. ● Maybe the shielded-layer of signal wire is not connected properly to the connector.
There appear streaks or light color on the screen	● Check if interfered by other equipment and if interfered possibly by the equipment like transmitting antenna, non-professional radio station and cellular phone.

2.TV set:

Symptoms	Possible cause
Unable to switch the power on	● Check to see if the power plug has been inserted properly into the socket.
No picture and sound	● Check to see if the power supply of liquid crystal TV has been switched on. (As can be indicated by the red LED at the front of the TV set) ● See if it's receiving the signal that is transmitted from other source than the station ● Check if it's connected to the wrong terminal or if the input mode is correct. ● Check if the signal cable connection between video source and the liquid crystal TV set is correct.

Deterioration of color phase or color tone	● Check if all the picture setups have been corrected.
Screen position or size is not proper	● Check is the screen position and size is correctly set up.
Picture is twisted and deformed	● Check to see if the picture-frame ratio is properly set up.
Picture color changed or colorless	● Check the “Component” or “RGB” settings of the liquid crystal TV set and make proper adjustment according to the signal types.
Picture too bright and there is distortion in the brightest area	● Check if the contrast setting is too high. ● Possibly the output quality of DVD broadcaster is set too high. ● It maybe also due to improper terminal connection of the video signal in a certain position of the system.
Picture is whitish or too bright in the darkest area of the picture	● Check if the setting for the brightness is too high ● Possibly the brightness grade of DVD player (broadcaster) is set too high.
No picture or signal produced from the display if “XXX in search” appears.	● Check if the cable is disconnected. ● Check if it’s connected to the proper terminal or if the input mode is correct.
There appears an indication - “outside the receivable scope)	● Check if the TV set can receive input signal. The signal is not correctly identified and VGA format is beyond the specified scope.
Remote control cannot work properly	● Check if the batteries are installed in the reverse order. ● Check if the battery is effective. ● Check the distance or angle from the monitor. ● Check if there is any obstruct between the remote control and the TV set. ● Check if the remote control signal- receiving window is exposed to strong fluorescence.
No picture and sound, but only hash.	● Check if the antenna cable is correctly connected, or if it has received the video signal correctly.
Blur picture	● Check if the antenna cable is correctly connected. ● Of if it has received the right video signal.
No sound	● Check if the “mute” audio frequency setting is selected. ● Check if the sound volume is set to minimum. ● Make sure the earphone is not connected. ● Check if the cable connection is loose.
When playing VHS picture search tape, there are lines at the top or bottom of the picture.	● When being played or in pause VHS picture search tape sometimes can’t provide stable picture, which may lead to incorrect display of the liquid crystal TV, In this case please press “auto” key on the remote

	control so as to enable the liquid crystal TV set to recheck the signal and then to display correct picture signal
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Working principle analysis

RF signal from the antenna to tuner, via high frequency amplifier and mix frequency to obtain IF signal, and then via pre-IF amplifier in V104, then it send to processed IF filter of SAW (Z103), obtain more idea IF speciality, it processed to IF amplifier, phase locked logic VCO and sync detection of N101 (M52760E) in the TV board to obtain VIDEO; IF via pre IF amplifier to send to processed filter of SAW (Z102), again send to processed IF amplifier of N101, decode second SIF. From M52760E output VIDEO, AV1 and AV2/S signal all send to video decoder N601 (TVP5147PFP), via video select, clamping, A/D transfer, comb filter and color decode, one way output AV OUT, another way output 8bit for CIR656 format signal and CLK signal, send to N101(MST6151) of CPU board, Also YPbPr, VGA and HDMI send to N101. N101(MST6151) is many function big dimension integrate circuit, it processed HDMI, A/D to DA switch, interlaced and non-interlaced processing, model switch and low voltage difference output functions and so on, it send to four ways difference signal and one way clock signal to LCD display.

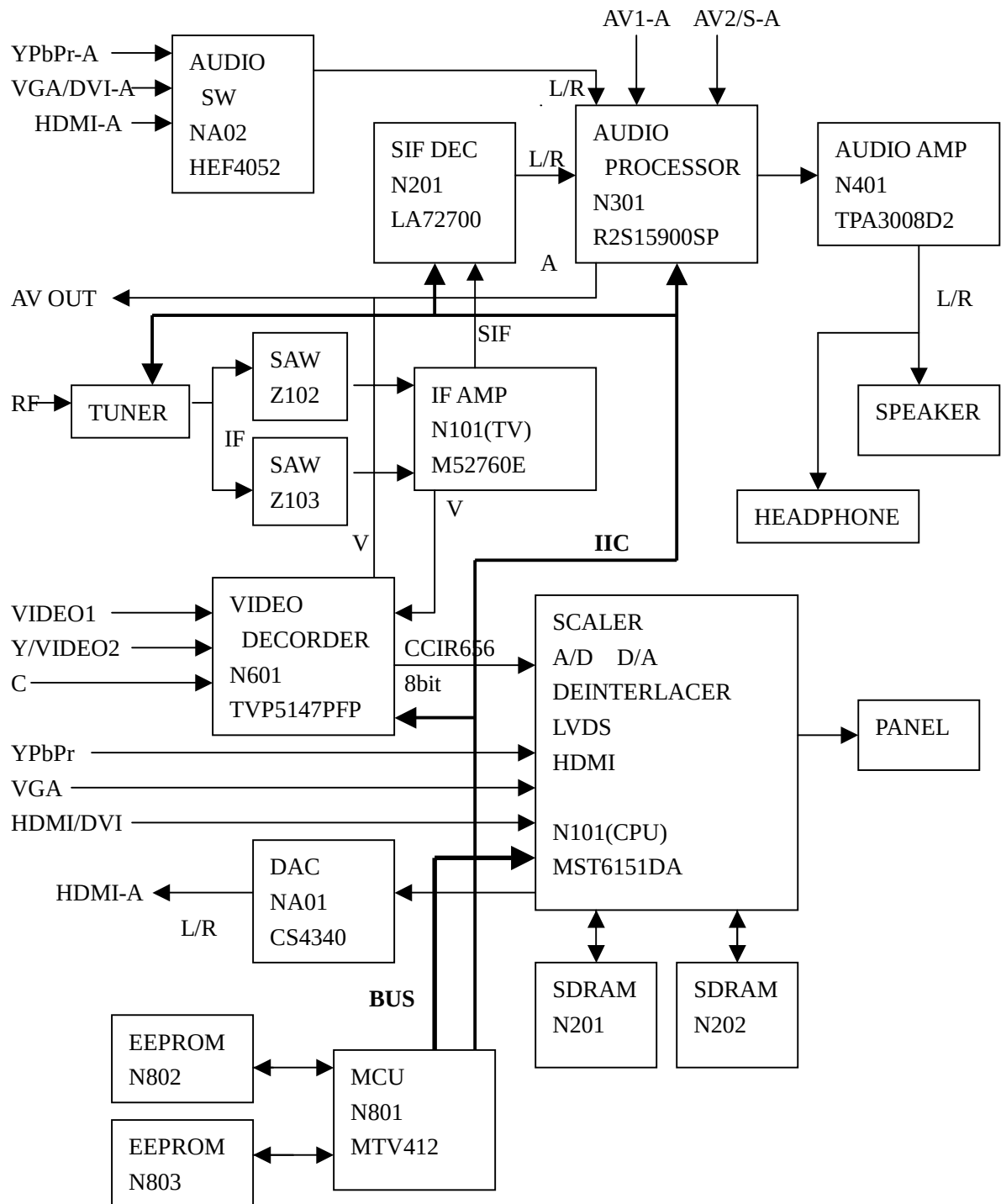
From HDMI input to MST6151 contain sound signal, via processed MST6151, send to processed D/A switch for NA01(CS4340), output L/R of HDMI.

Output SIF from M52760F and send to processed stereo demodulation for N201(LA72700), output L/R of TV.

L/R of HDMI and Ypbpr from CS4340 output, L/R of VGA/DVI signal via sound switch NA02(HEF4052) to select, then send to sound processing N301(R2S15900SP); demodulate L/R signal of LA72700 send to N301, and L/R signal for AV1A and V2/S input send to N301. Via selected switch and processing sound, one way sound output for AV OUT, other way send to N401(TPA3008D2) of sound amplifier, via amplify for sound signal to speaker and earphone.

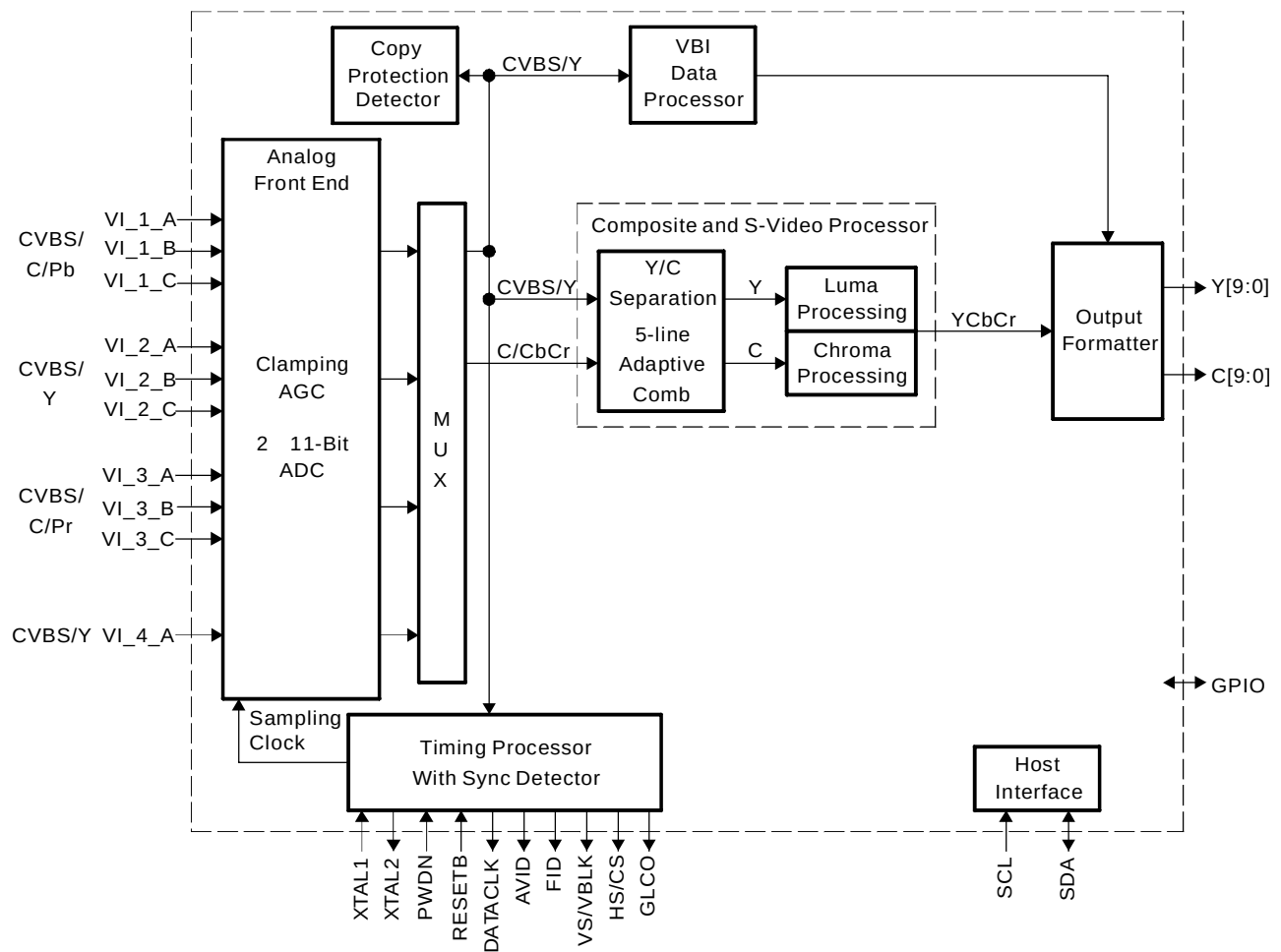
The unit working is controlled N801(MTV412) of CPU, connect tuner, TVP5147, LA72700 and R2S15900SP to IIC bus; connect MST6151 to parallel BUS.

BLOCK DIAGRAM



IC block diagram

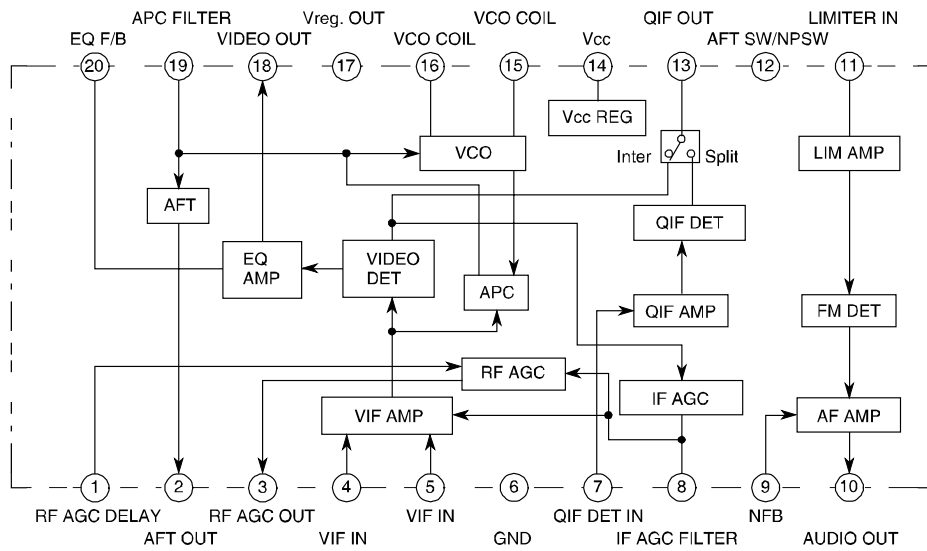
TVP5147



- 80: AV OUT
- 2: TV-V input
- 7: AV1-V input
- 9: AV2-V/S-Y input
- 18: S-C input
- 29: SDA
- 28: SCL
- 40: CLK output
- 43-47, 50-52: CCIR656 format signal output
- 4, 5, 20, and 21: 3.3V-A power supply
- 38, 48, 61: 3.3V-D power supply
- 11, 25, 76: 1.8V-A power supply
- 31, 41, 55, and 67: 1.8V-B power supply

M52760

BLOCK DIAGRAM



2: AFT

3: AGC

4, 5: picture If input

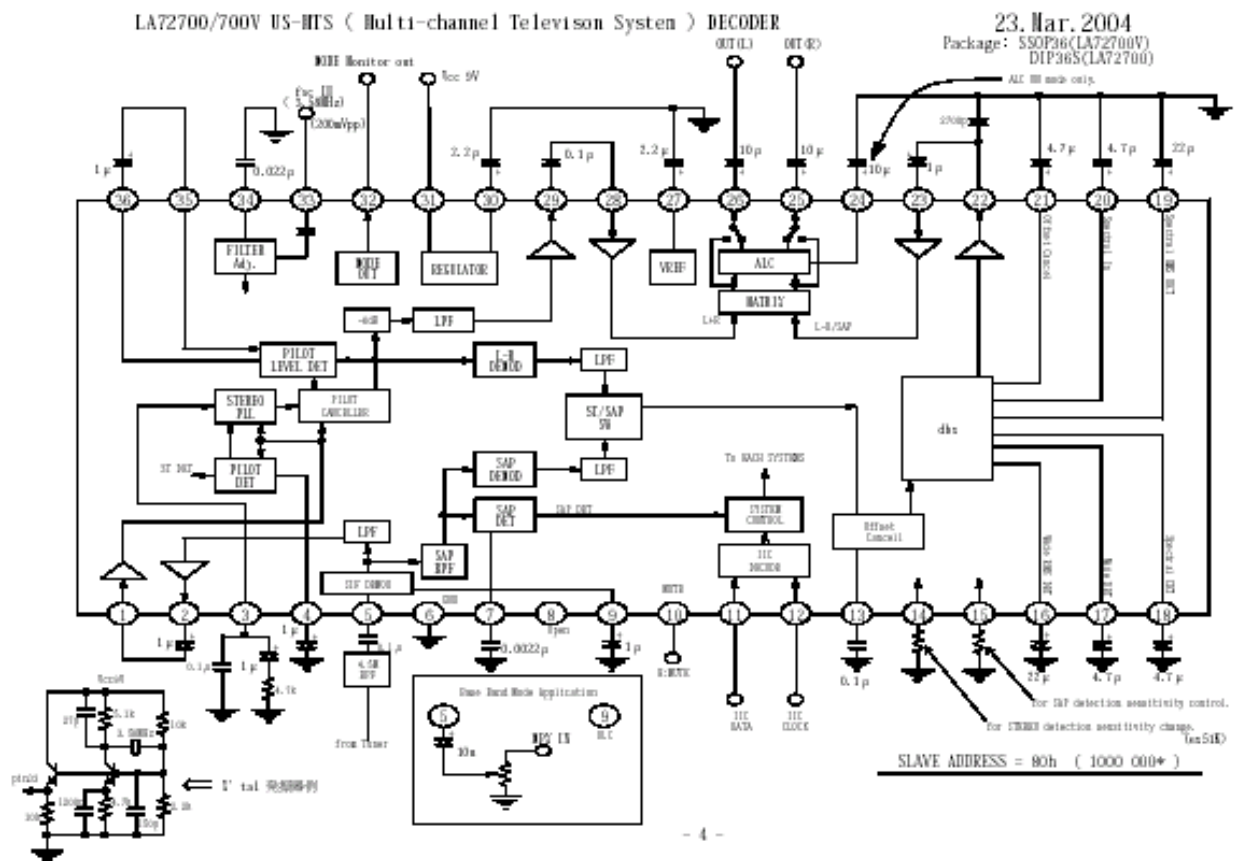
7: sound IF input

13: SIF output

10: mono sound output

18: TV- VIDEO output

14, 17: +5V-1 power supply

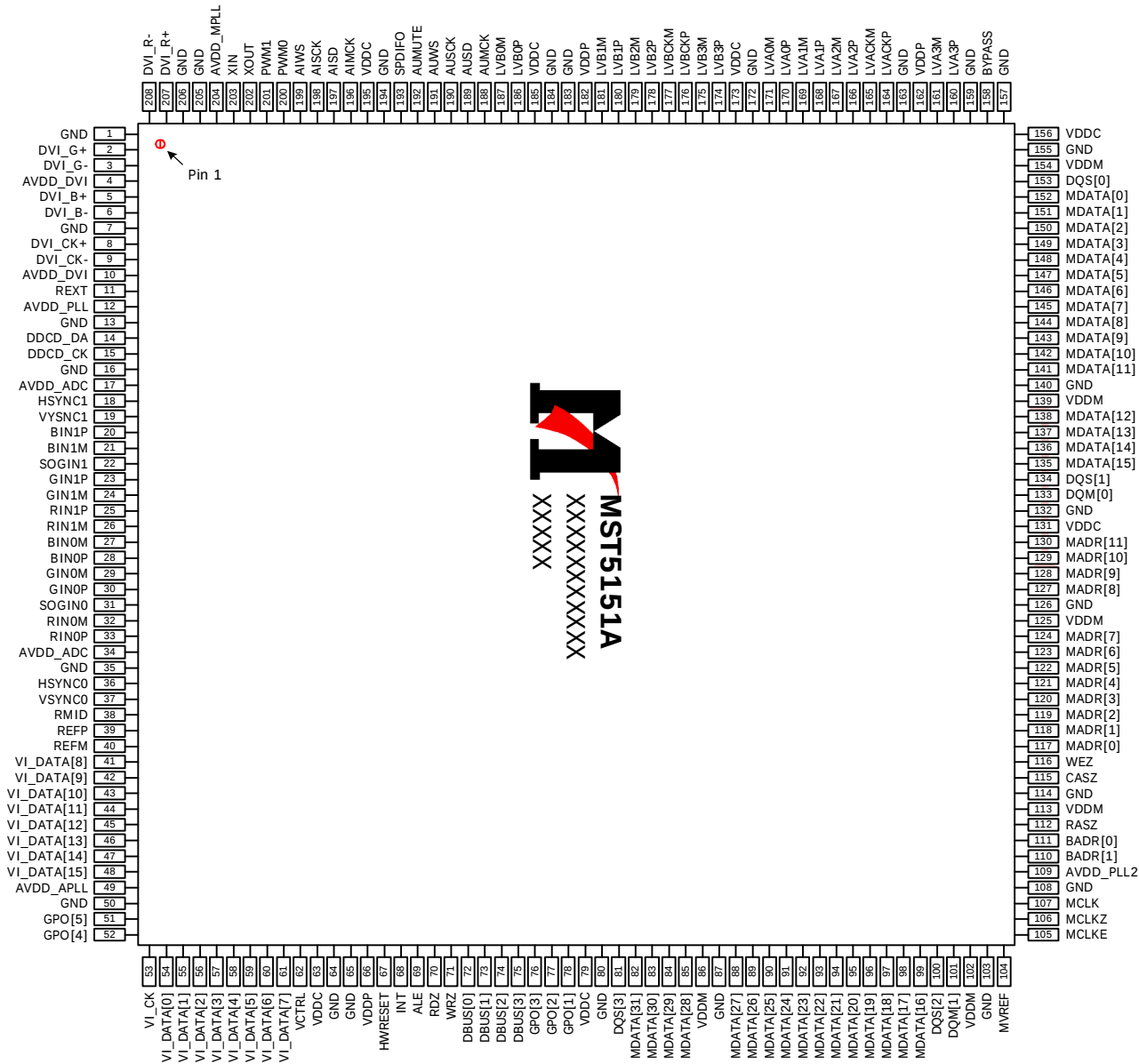
LA72700

- 5: SIF input
25: TV sound -R output
26: TV sound- L output
11: SDA
12: SCL
31: +9Vpower supply

MST6151

207, 208: HDMI-R input
2, 3: HDMI-G input
5, 6: HDMI-B input
8, 9: HDMI-CLK input
14: HDMI-SDA
15: HDMI-SCL
20, 21: VGA-B input
22: VGA-G input
23, 24: VGA-G input
25, 26: VGA-R input
18: VGA H-sync input
19: VGA V-sync input
27, 28: PB input
29, 30: Y input
31: HDMI-G input
32, 33: PR input
54-61: CCIR656 format signal input
53: CLK input
164-171, 174: 4 difference signal output
160, 161: 1 clock signal output
188-191: HDMI sound output
200: PWW (brightness control switch) output
72-75: BUS (parallel communication signal)
49, 131, 195: 1.8V power supply
4,17,12,109,204,66,102: 3.3V power supply

PIN DIAGRAM (MST5151A)



PIN DESCRIPTION

MCU Interface

Pin Name	Pin Type	Function	Pin
HWRESET	Schmitt Trigger Input w/ 5V-tolerant	Hardware Reset, active high	67
DBUS[3:0]	I/O w/ 5V-tolerant	MCU 4-bit DDR Direct bus; 4mA driving strength	75-72
ALE	I w/ 5V-tolerant	MCU Bus ALE, active high	69
RDZ	I w/ 5V-tolerant	MCU Bus RDZ, active high	70
WRZ	I w/ 5V-tolerant	MCU Bus WDZ, active high	71
INT	Output	MCU Bus Interrupt; 4mA driving strength	68

Analog Interface

Pin Name	Pin Type	Function	Pin
RMID		Mid-Scale Voltage Bypass	38
REFP		Internal ADC Top De-coupling Pin	39
REFM		Internal ADC Bottom De-coupling Pin	40
REXT	Analog Input	External Resister 390 ohm to AVDD_DVI	11
HSYNC0	Schmitt Trigger Input w/ 5V-tolerant	Analog HSYNC Input from Channel 0	36
VSYNC0	Schmitt Trigger Input w/ 5V-tolerant	Analog VSYNC Input from Channel 0	37
BIN0M	Analog Input	Reference Ground for Analog Blue Input from Channel 0	27
BIN0P	Analog Input	Analog Blue Input from Channel 0	28
GIN0M	Analog Input	Reference Ground for Analog Green Input from Channel 0	29
GIN0P	Analog Input	Analog Green Input from Channel 0	30
SOGIN0	Analog Input	Sync On Green Input from Channel 0	31
RIN0M	Analog Input	Reference Ground for Analog Red Input from Channel 0	32
RIN0P	Analog Input	Analog Red Input from Channel 0	33
HSYNC1	Schmitt Trigger Input w/ 5V-tolerant	Analog HSYNC Input from Channel 1	18
VSYNC1	Schmitt Trigger Input w/ 5V-tolerant	Analog VSYNC Input from Channel 1	19
BIN1P	Analog Input	Analog Blue Input from Channel 1	20
BIN1M	Analog Input	Reference Ground for Analog Blue Input from Channel 1	21
SOGIN1	Analog Input	Sync On Green Input from Channel 1	22
GIN1P	Analog Input	Analog Green Input from Channel 1	23
GIN1M	Analog Input	Reference Ground for Analog Green Input from Channel 1	24
RIN1P	Analog Input	Analog Red Input from Channel 1	25
RIN1M	Analog Input	Reference Ground for Analog Red Input from Channel 1	26

DVI Interface

Pin Name	Pin Type	Function	Pin
DVI_R+	Input	DVI Input Channel Red +	207
DVI_R-	Input	DVI Input Channel Red -	208
DVI_G+	Input	DVI Input Channel Green +	2
DVI_G-	Input	DVI Input Channel Green -	3
DVI_B+	Input	DVI Input Channel Blue +	5
DVI_B-	Input	DVI Input Channel Blue -	60
DVI_CK+	Input	DVI Input Clock +	8
DVI_CK-	Input	DVI Input Clock -	9

Video Interface

Pin Name	Pin Type	Function	Pin
VI_CK	Input w/ 5V-tolerant	Digital Video Input Clock	66
VI_DATA[15:0]	Input w/ 5V-tolerant	Digital Video Input Data[15:0]	48-41, 61-54

Digital Audio Interface

Pin Name	Pin Type	Function	Pin
AUMCK	Output	Audio Master Clock Output	188
AUSD	Output	Audio Serial Data Output; 4mA driving strength	189
AUSCK	Output	Audio Serial Clock Output; 4mA driving strength	190
AUWS	Output	Word Select Output; 4mA driving strength	191
AUMUTE	Output	Audio Output Mute Control	192
SPDIFO	Output	S/PDIF Audio Output; 4mA driving strength	193
AIMCK	Input	Audio Master Clock Input	196
AISD	Input	Audio Serial Data Input	197
AISCK	Input	Audio Serial Clock Input	198
AIWS	Input	Word Select Input	199

LVDS Interface

Pin Name	Pin Type	Function	Pin
LVA0M	Output	A-Link Negative LVDS Differential Data Output	171
LVA0P	Output	A-Link Positive LVDS Differential Data Output	170
LVA1M	Output	A-Link Negative LVDS Differential Data Output	169
LVA1P	Output	A-Link Positive LVDS Differential Data Output	168

Pin Name	Pin Type	Function	Pin
LVA2M	Output	A-Link Negative LVDS Differential Data Output	167
LVA2P	Output	A-Link Positive LVDS Differential Data Output	166
LVA3M	Output	A-Link Negative LVDS Differential Data Output	161
LVA3P	Output	A-Link Positive LVDS Differential Data Output	160
LVACKM	Output	A-Link Negative LVDS Differential Data Output	165
LVACKP	Output	A-Link Positive LVDS Differential Data Output	164
LVB0M	Output	B-Link Negative LVDS Differential Data Output	187
LVB0P	Output	B-Link Positive LVDS Differential Data Output	186
LVB1M	Output	B-Link Negative LVDS Differential Data Output	181
LVB1P	Output	B-Link Positive LVDS Differential Data Output	180
LVB2M	Output	B-Link Negative LVDS Differential Data Output	179
LVB2P	Output	B-Link Positive LVDS Differential Data Output	178
LVB3M	Output	B-Link Negative LVDS Differential Data Output	175
LVB3P	Output	B-Link Positive LVDS Differential Data Output	174
LVBCKM	Output	B-Link Negative LVDS Differential Data Output	177
LVBCKP	Output	B-Link Positive LVDS Differential Data Output	176

GPO Interface

Pin Name	Pin Type	Function	Pin
PWM0	Output	GPO with PWM Function; 4mA driving strength	200
PWM1	Output	GPO with PWM Function; 4mA driving strength	201
GPO[1]	I/O	GPO / FIELD input; 4mA driving strength	78
GPO[2]	I/O	GPO / Digital VSYNC Input; 4mA driving strength	77
GPO[3]	I/O	GPO / DE Input; 4mA driving strength	76
GPO[4]	I/O	GPO / Secondary Video Clock Input; 4mA driving strength	52
GPO[5]	I/O	GPO / Digital HSYNC Input; 4mA driving strength	51

DRAM Interface

Pin Name	Pin Type	Function	Pin
MVREF	Input	Reference Voltage for DDR SDRAM Interface	104
MCLKE	Output	DRAM Memory Clock Enable	105
MCLKZ	Output	DRAM Memory clock Complementary /Input	106

Pin Name	Pin Type	Function	Pin
		(for differential clocks)	
MCLK	Output	DRAM Memory Clock	107
RASZ	Output	Row Address Strobe, active low	112
CASZ	Output	Column Address Strobe, active low	115
WEZ	Output	Write Enable, active low	116
DQM[1:0]	Output	Data Mask Byte Enable	101, 133
DQS[3:0]	Output	Data Strobe	81, 100, 134, 153
BADR[1:0]	Output	Memory Bank Address	110, 111
MADR[11:0]	Output	Memory Address	130-127, 124-117
MDATA[31:0]	I/O	Memory Data	82-85, 88-99, 135-138, 141-152

Misc. Interface

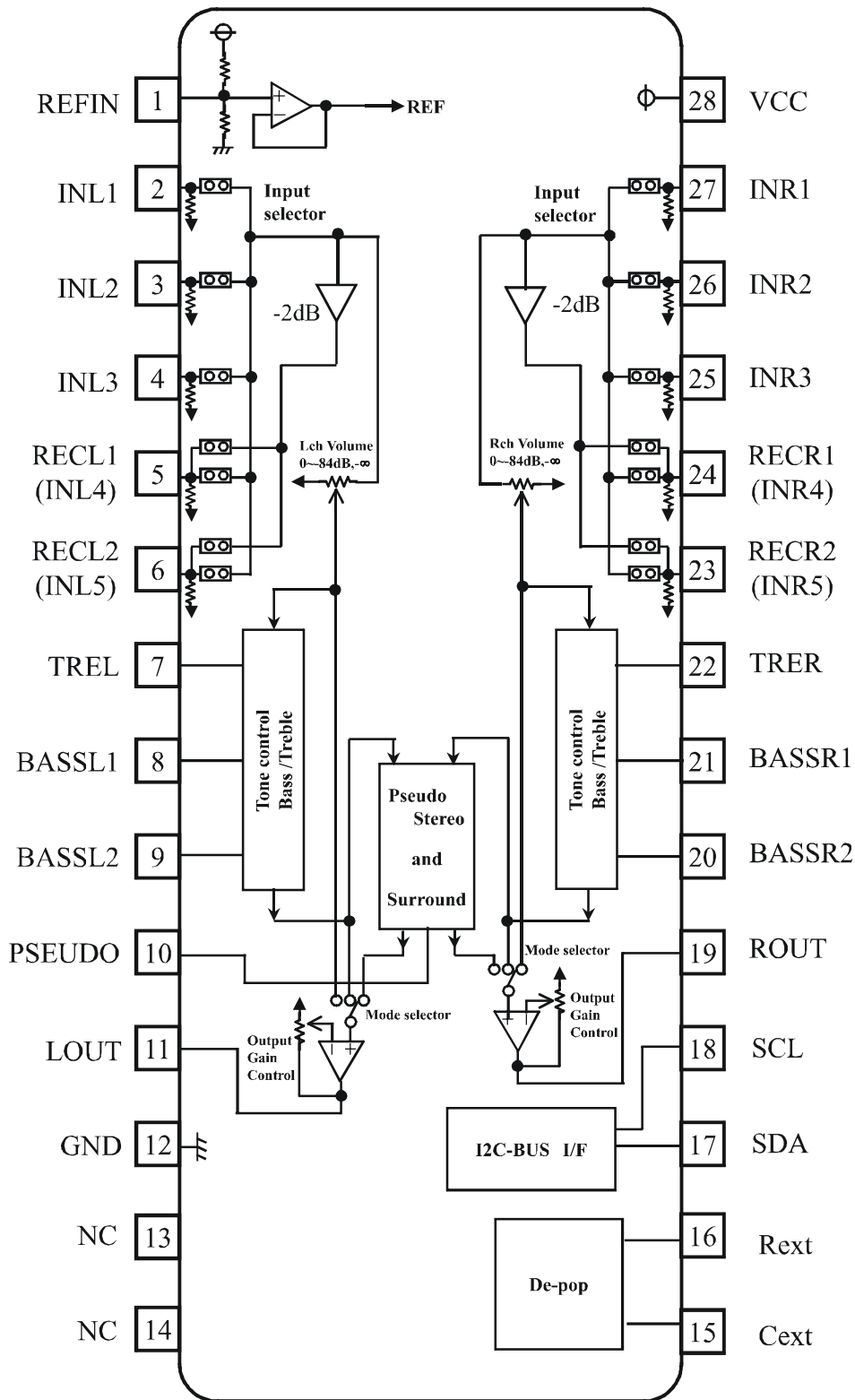
Pin Name	Pin Type	Function	Pin
XIN	Crystal Oscillator Input	Crystal Oscillator Input	203
XOUT	Crystal Oscillator Output	Crystal Oscillator Output	202
DDCD_DA	I/O w/ 5V-tolerant	HDCP Serial Bus Data / DDC data of DVI port; 4mA driving strength	14
DDCD_CLK	Input w/ 5V-Tolerant	HDCP Serial Bus Clock / DDC Clock of DVI Port	15
BYPASS		For External Bypass Capacitor	158
VCTRL	Output	Regulator Control	62

Power Pins

Pin Name	Pin Type	Function	Pin
AVDD_DVI	3.3V Power	DVI Power	4, 10
AVDD_ADC	3.3V Power	ADC Power	17, 34
AVDD_PLL	3.3V Power	PLL Power	12
AVDD_PLL2	3.3V Power	PLL Power	109
AVDD_APLL	1.8V Power	Audio PLL Power	49
AVDD_MPLL	3.3V Power	PLL Power	204
VDDM	3.3V Power (SDR SDRAM) / 2.5V Power (DDR SDRAM)	DRAM Interface Power	86, 102, 113, 125, 139, 154
VDDP	3.3V Power	Digital Output Power	66, 162, 182
VDDC	1.8V Power	Digital Core Power	63, 79, 131, 156, 173, 185, 195

Pin Name	Pin Type	Function	Pin
GND	Ground	Ground	1, 7, 13, 16, 35, 50, 64, 65, 80, 87, 103, 108, 114, 126, 132, 140, 155, 157, 159, 163, 172, 183, 184, 194, 205, 206

R2S15900



2: input L of AV1

27: input R of AV1

3: input L of AV2/S

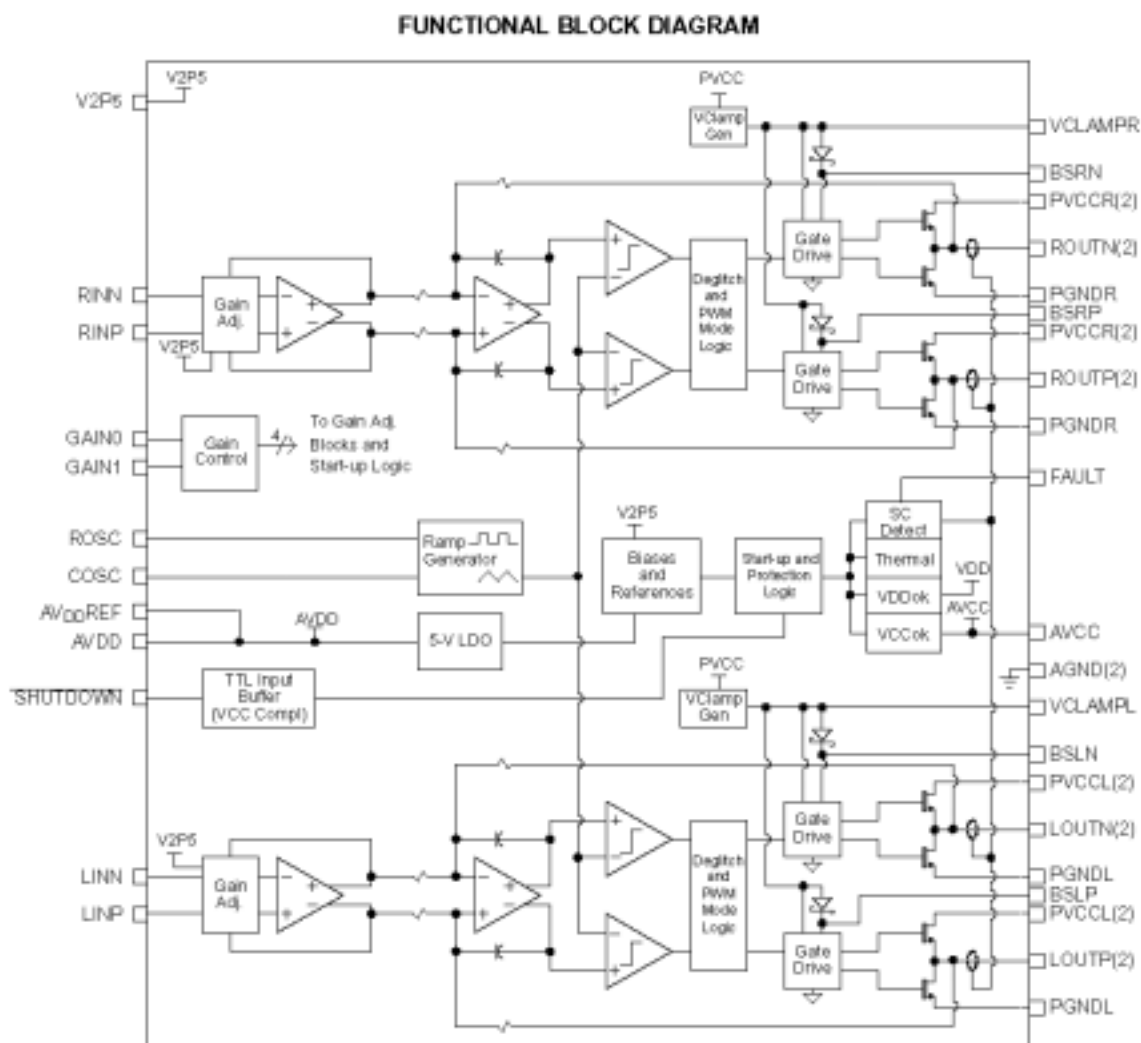
26: input R of AV2/S

4: input L of YPBPR/VGA/HDMI

25: input R of YPBPR/VGA/HDMI

5: input L of TV
 24: input R of TV
 6: output L of AVOUT
 23: output R of AVOUT
 11: L output
 19: R output
 18: SCL
 17: SDA
 28: +9V power supply

TPA3008



1: MUTE
 3: R input
 5: L input
 20, 17: L input
 41, 44: R input
 15, 23, 33, 39, and 47: +18V power supply

Main assembly

NAME	NO.		MAIN COMPONENT AND it'S NO.	
TV board	667-L27U6-40		N101 N201 N301 N401	M52760 (352-52760-10) LA72700 (353-72700-10) R2S15900 (353-15900-10) TPA3008D2 (353-30080-10)
CPU board	667-L27U6-56		N101 N601 NA01 N801	MST6151DA (353-61510-10) TVP5147 (353-51470-10) CS4340 (353-43400-30) MTV412 (353-04120-10)
Keypad board	667-L27U6-05			
Remote control	301-RL27U6-27M (RC-R27M)			
MODEL	LC-23U7 (203-L27U70-01)	LC-23U7 (203-L27U70-02)	LC-27U6/27U7	LC-32U5
Power supply board	667-L27U6-20	667-L23U6-20	667-L27U6-20	667-L32K5-20
IR board	667-L27U6-09	667-L27U6-09	667-L27U6-09	667-L32U5-09
Panel	335-23002-00	335-23004-00	335-27001-00	335-32002-00

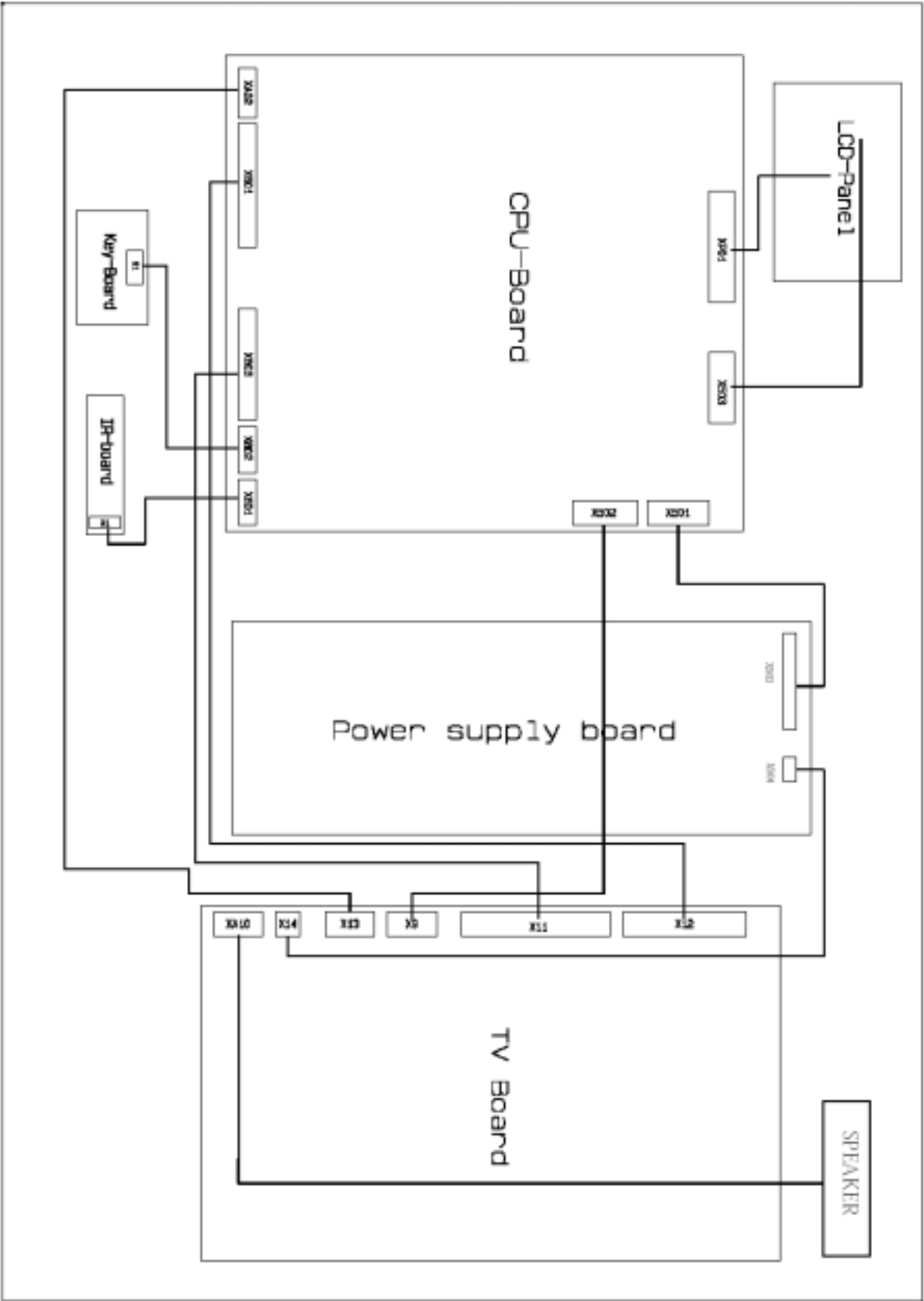
Identification criteria for the bright spot and dark spot of the LCD screen

Category	criteria	Q'ty allowed					Distance between two spots				
		15"	20"	22"	30"	40"	15"	20"	22"	30"	40"
Bright spot	One single spot	≤5	≤2	≤5	≤2	≤3	≥15mm	≥15mm			
	2 neighboring spots	≤2	≤1	≤2	≤1	≤1					
	Total No.	≤5	≤2	≤5	≤2	≤3					
Dark spots	One single spot	≤6	≤7	≤5	≤4	≤10		≥10mm	≥5mm		
	Two neighboring spots	≤2	≤2	≤2	≤1	≤5					
	Total No.	≤6	≤7	≤5	≤4	≤10					
Total defected point		≤8	≤7	≤5	≤4	/					

Notes:

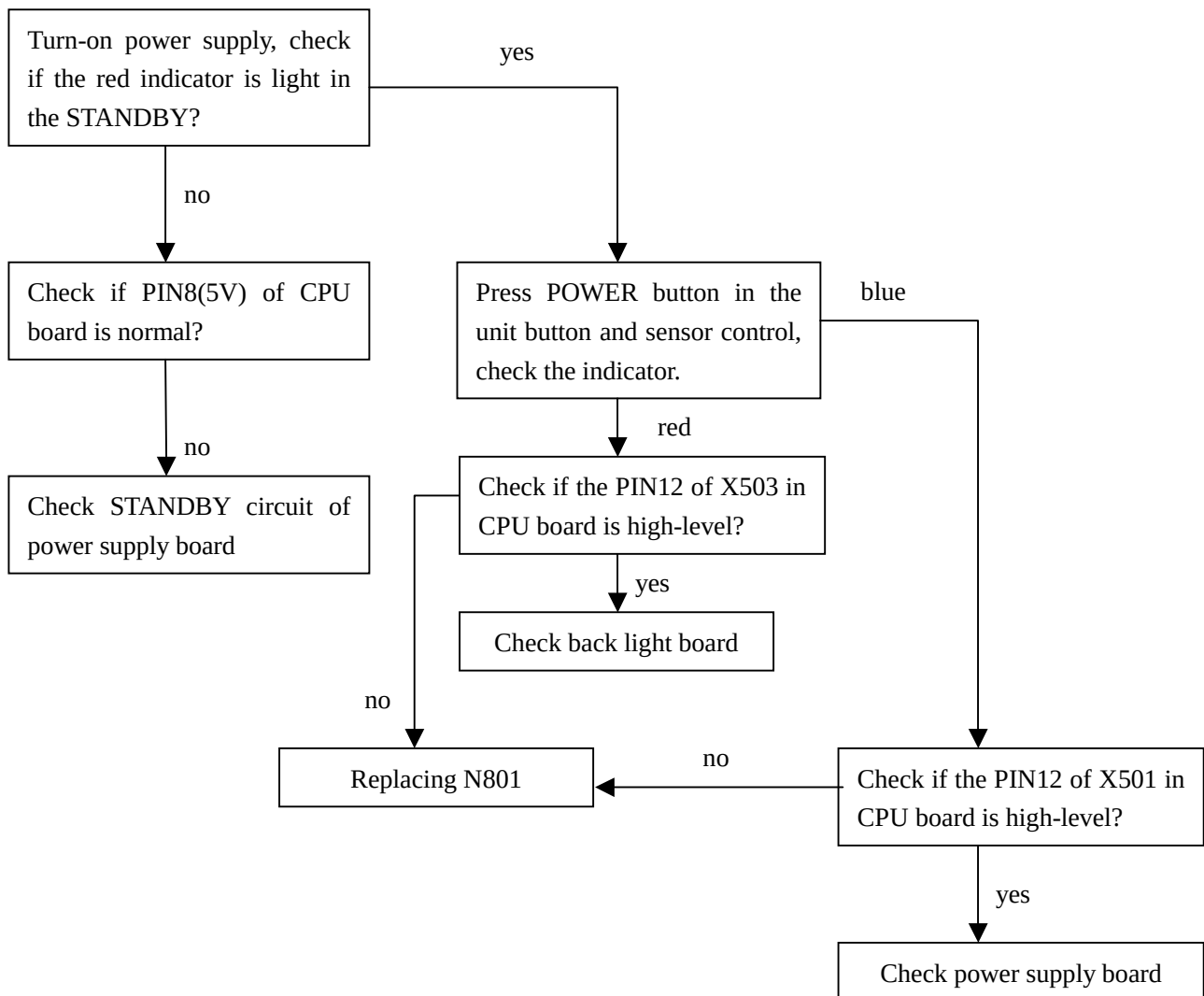
1. Definition of defected point (bright spot, dark spot): It is identified as a defected point if its area exceeds 1/2 of a single picture element (R,G,B).
2. Definition of bright spot: It is identified as a bright spot if it is bright in the state of dark field and its bright size remains unchanged
3. Definition of dark spot: It is identified as a dark spot if it is dark in the state of white field and its dark size remains unchanged
4. Definition of two neighboring points: Defects of a group of picture elements(RB,RG,GB).

Wiring diagram

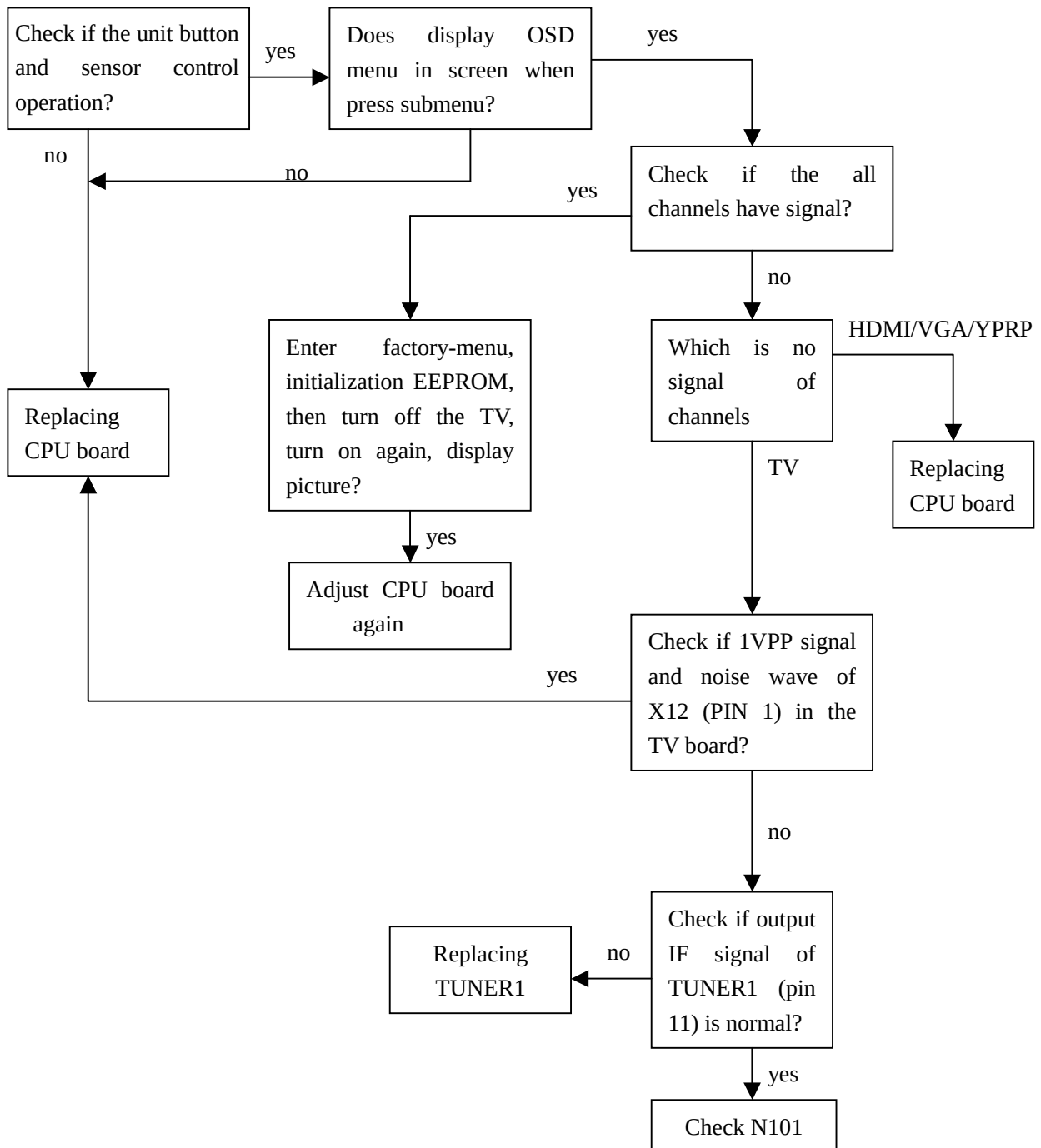


Troubleshooting guide

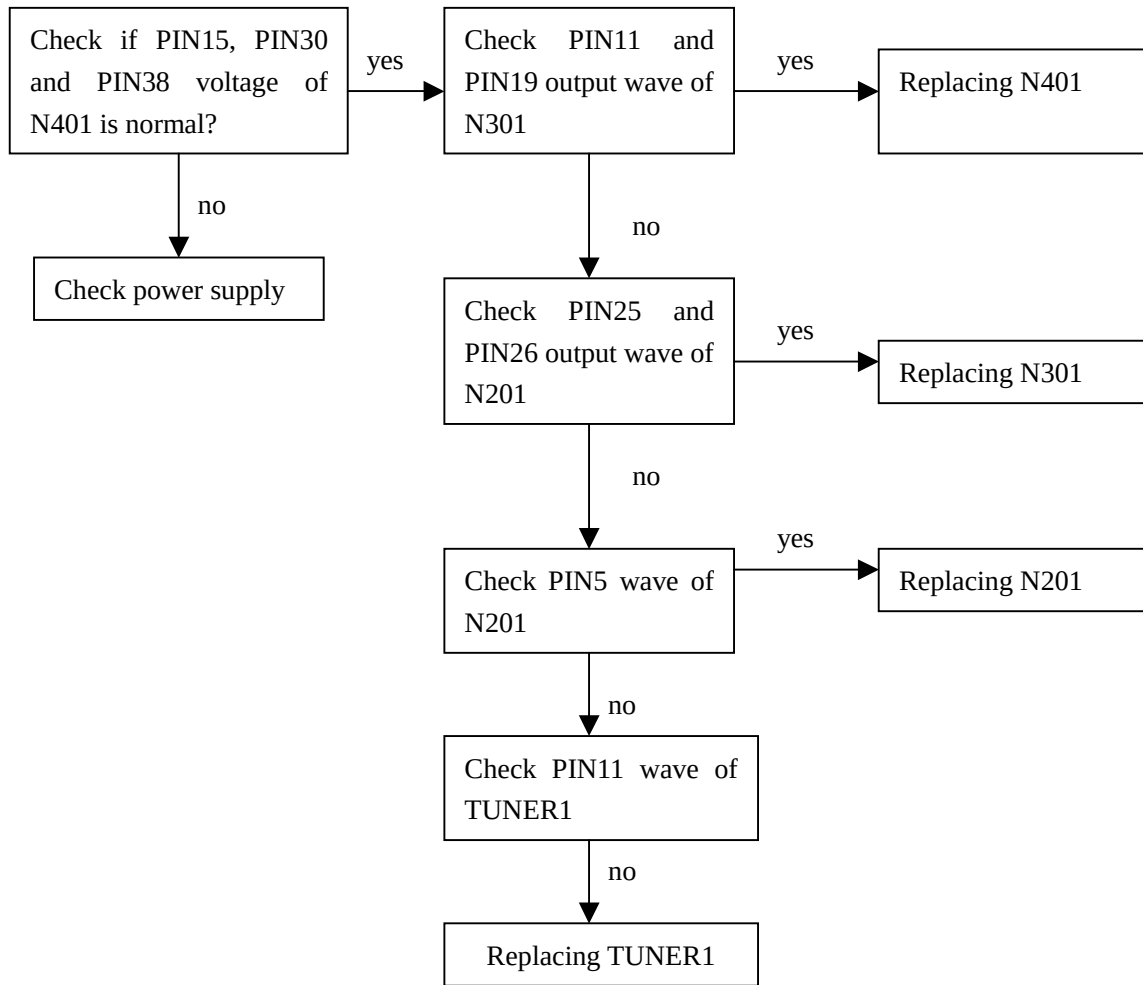
1. No raster

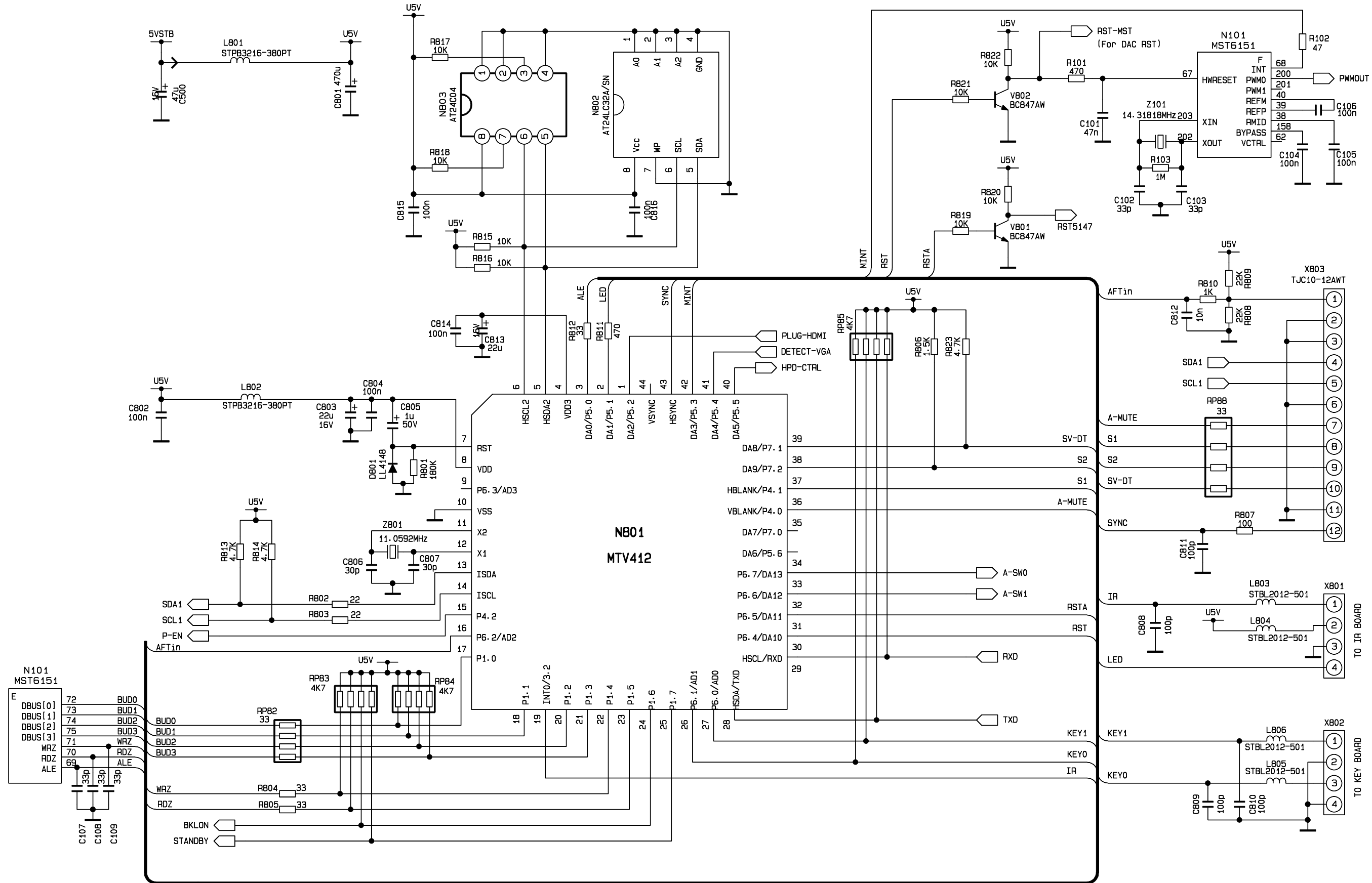


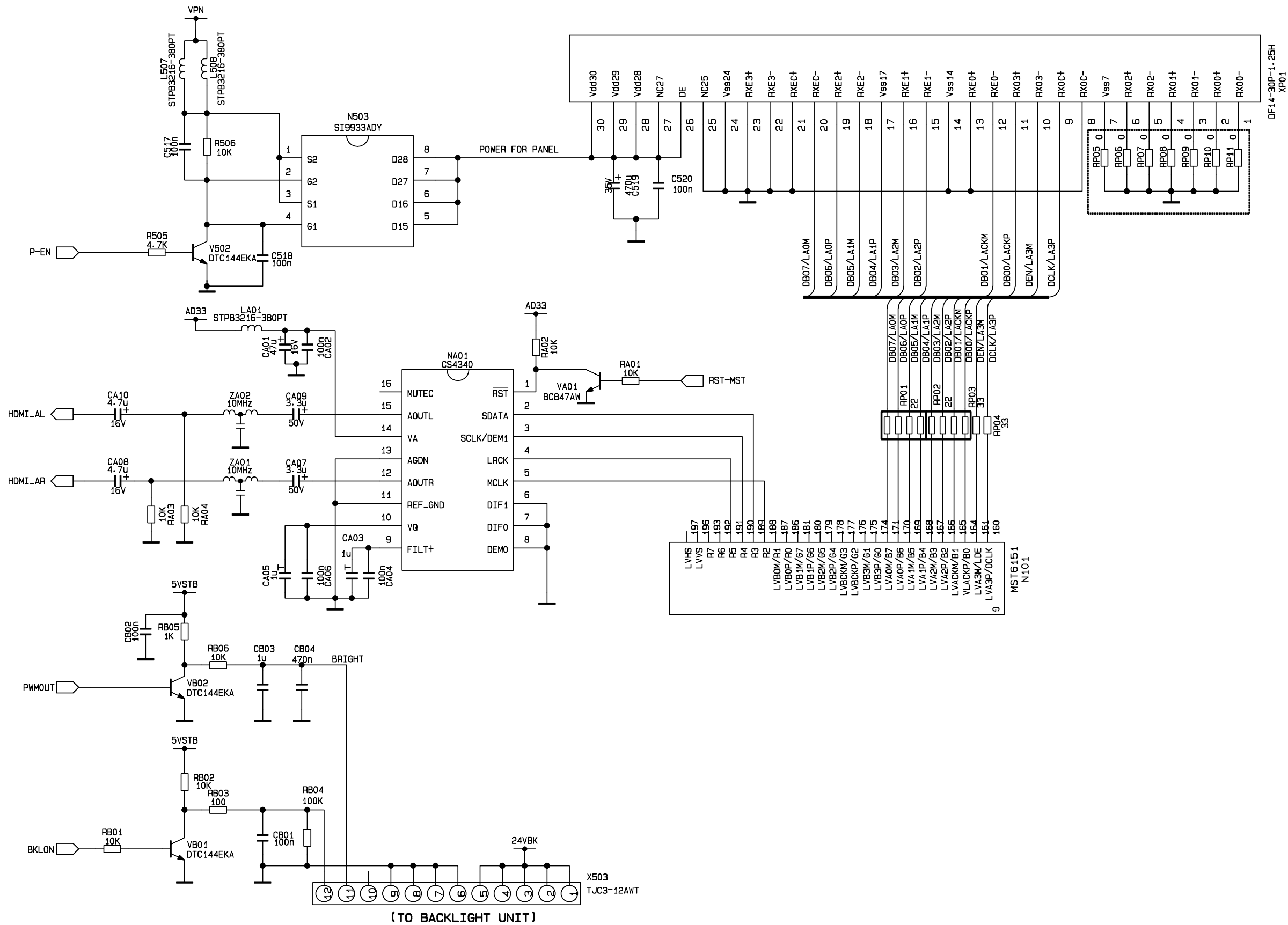
2. Raster, but no picture



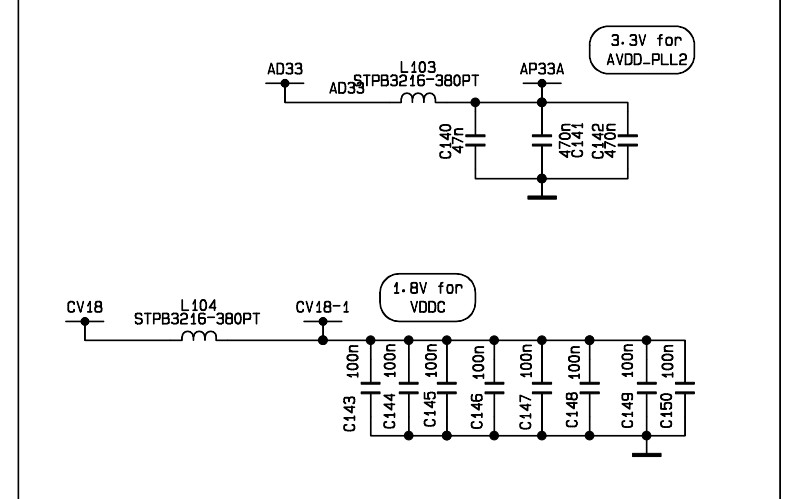
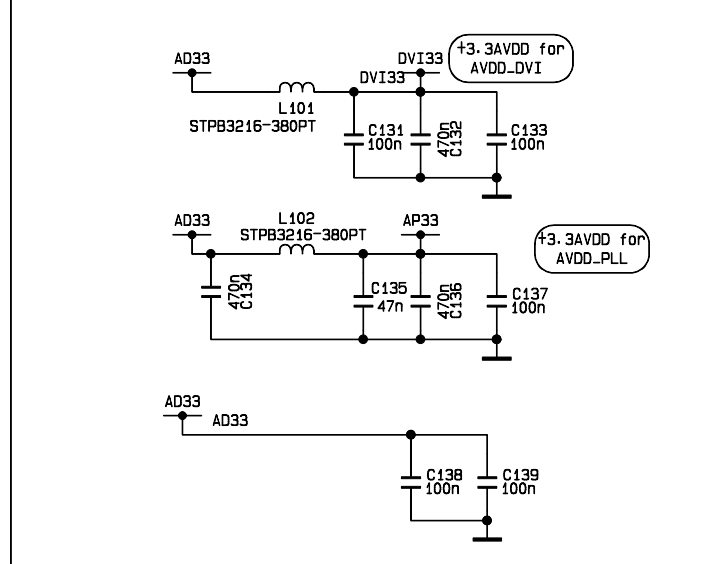
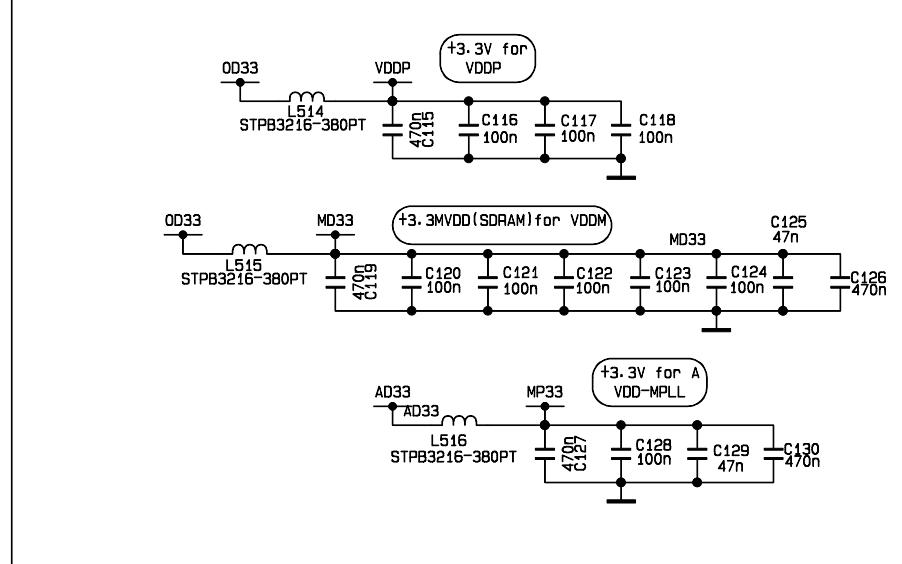
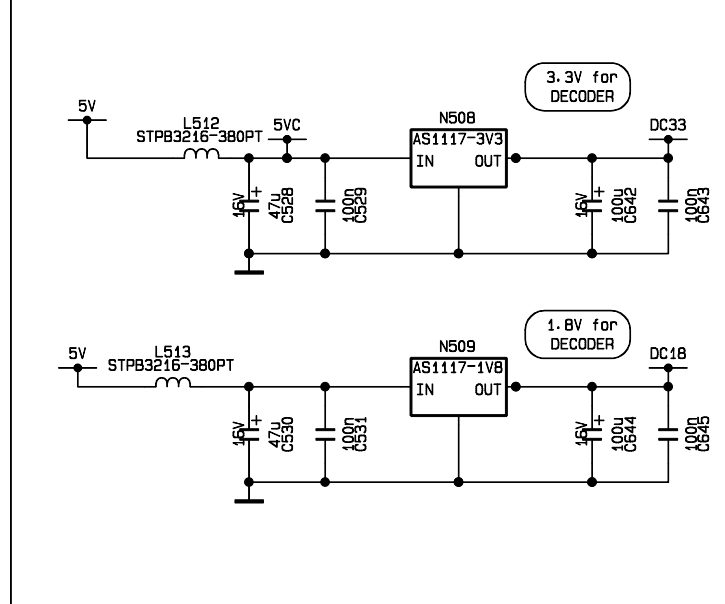
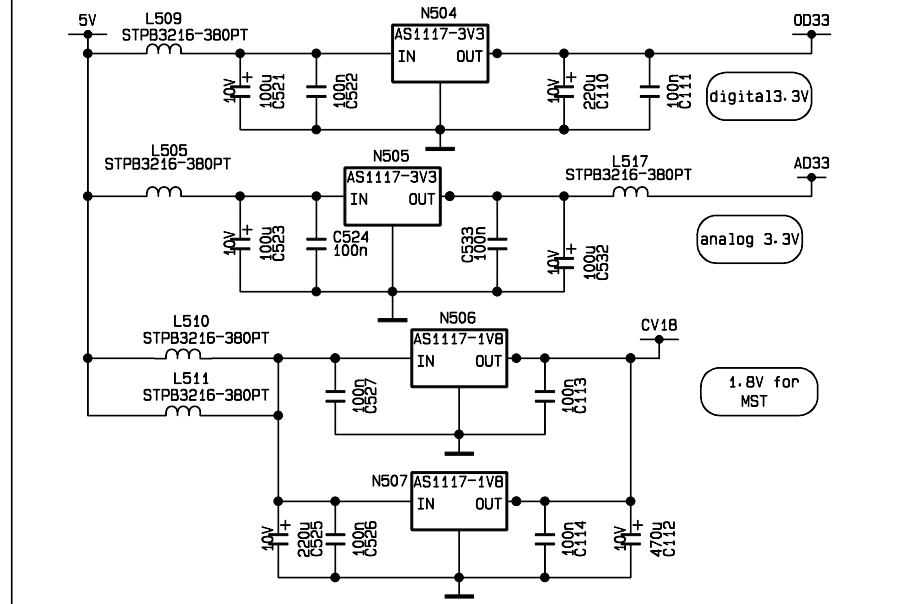
3.no sound

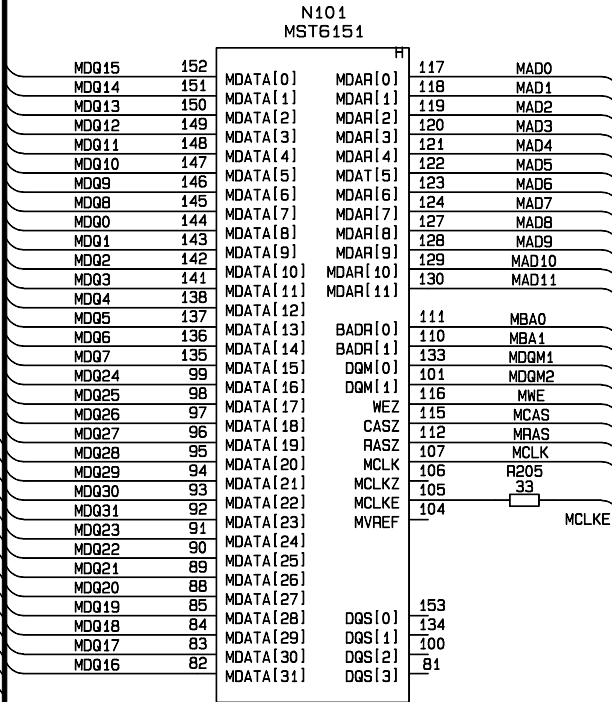
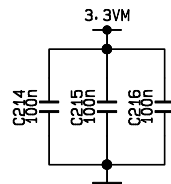


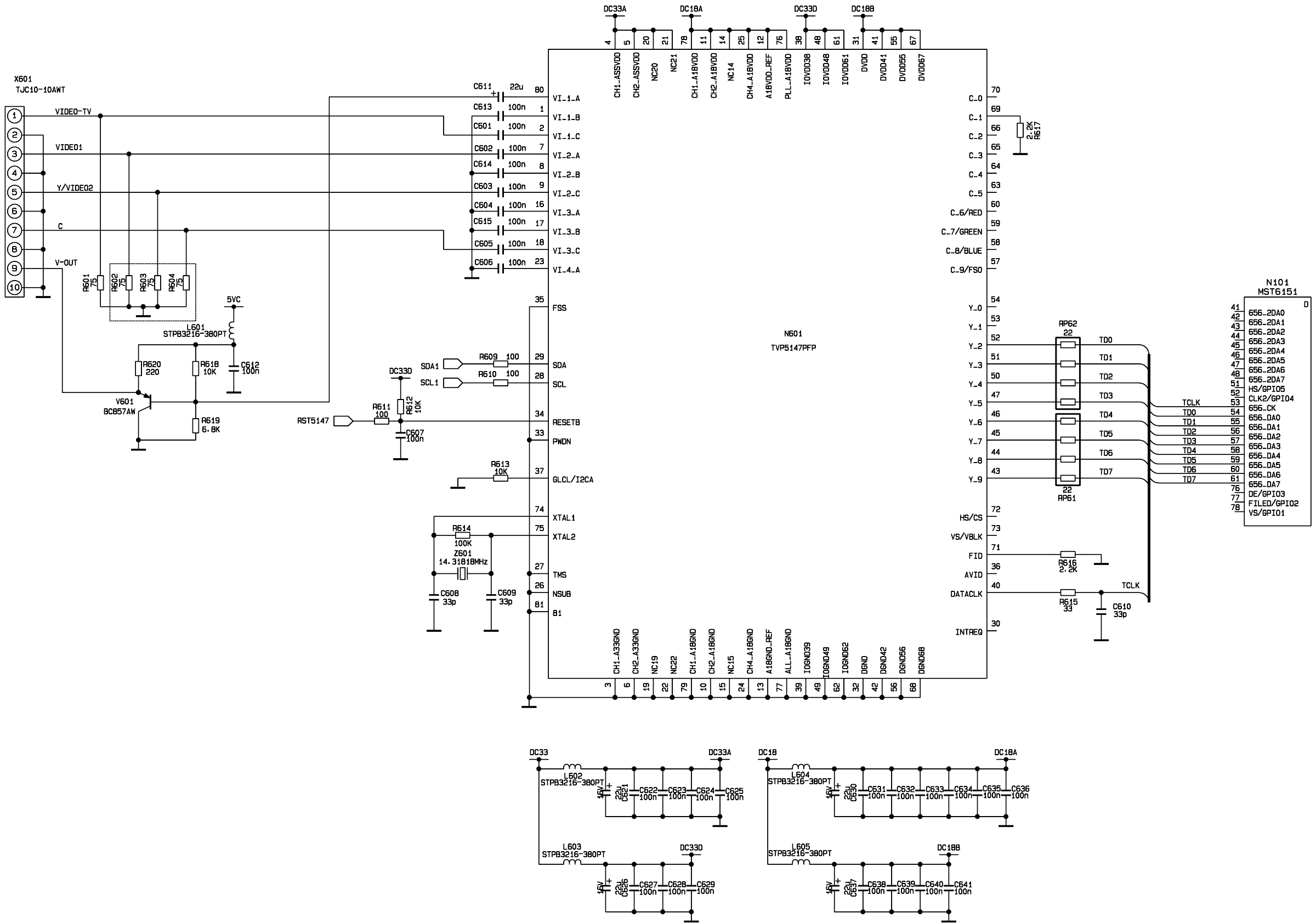


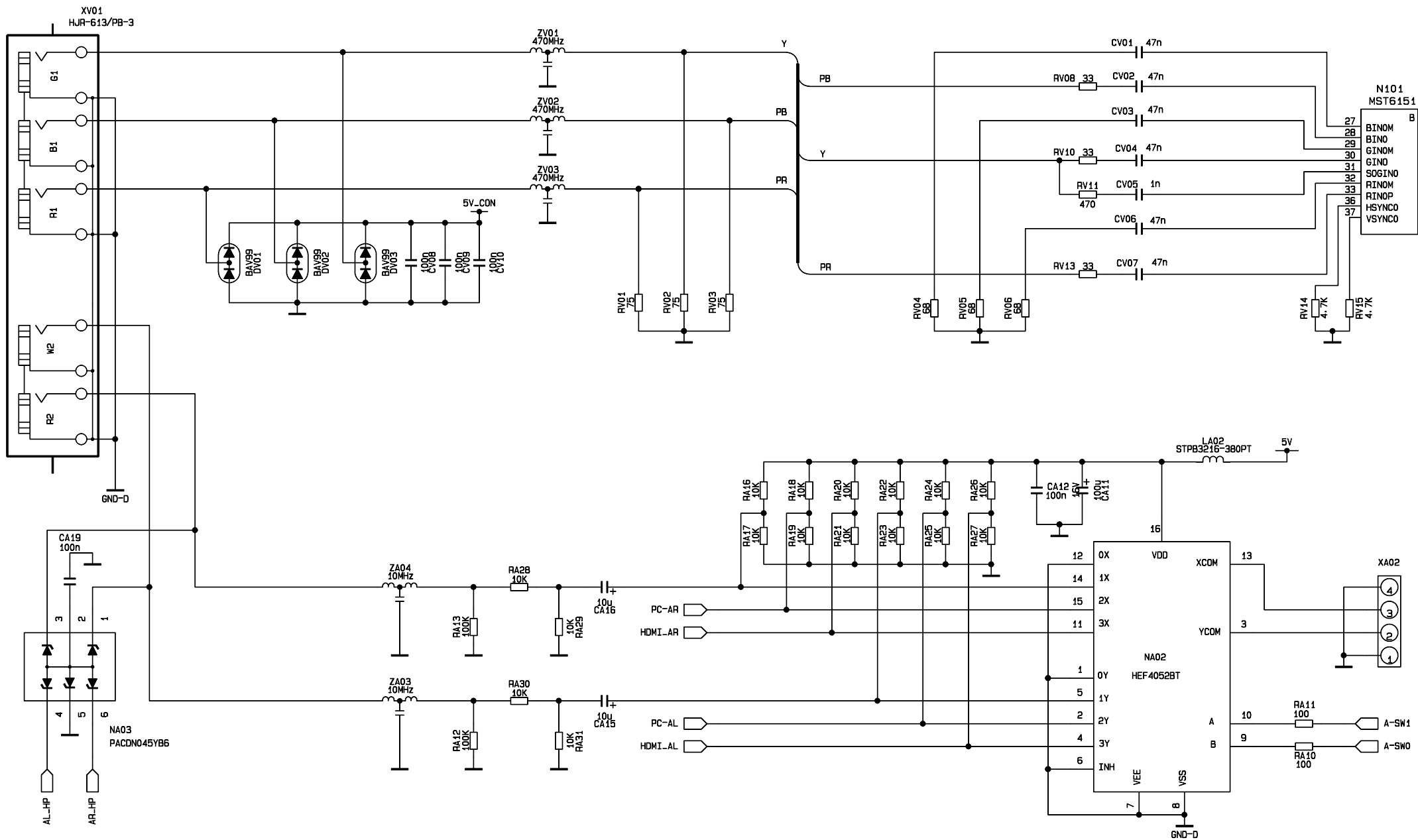


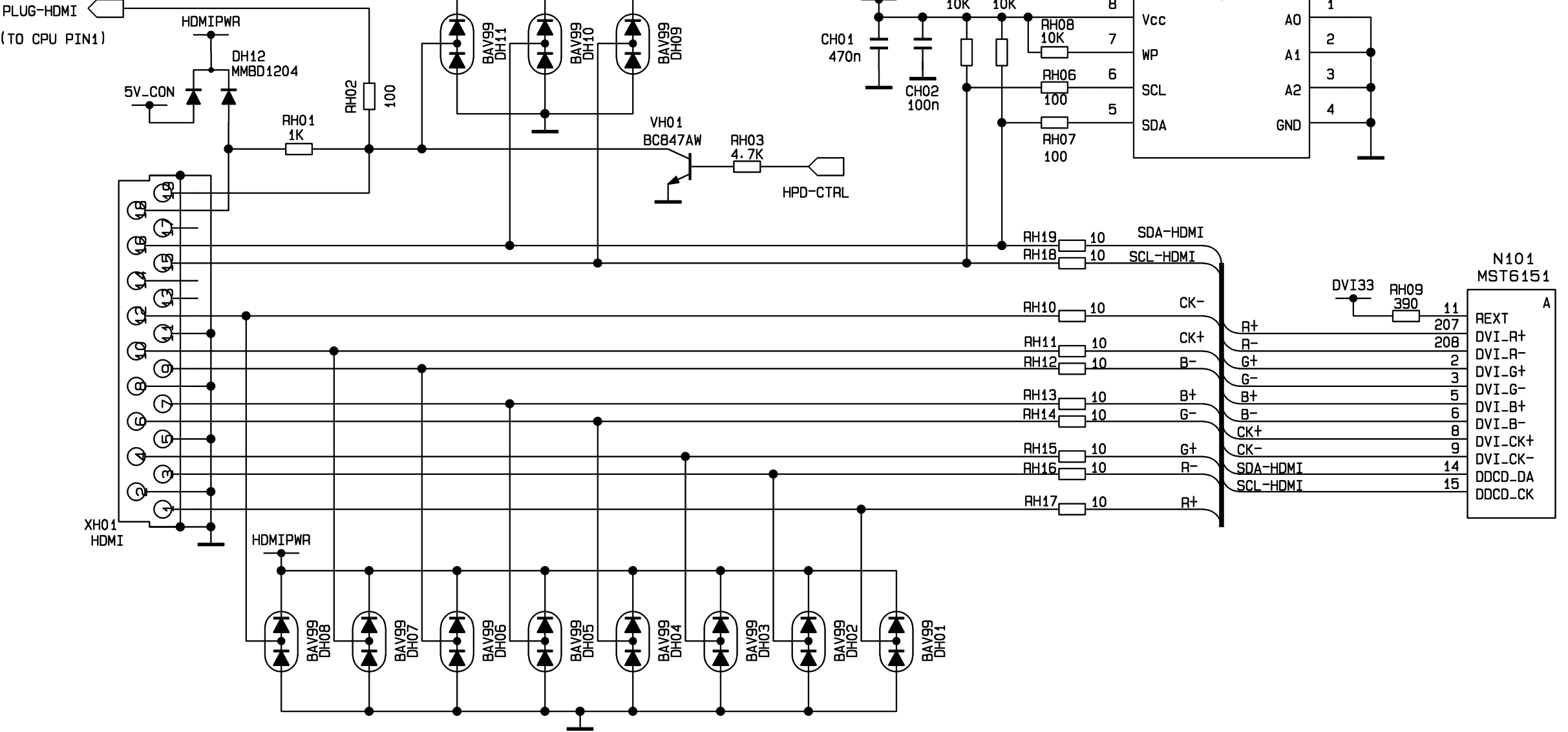
X502

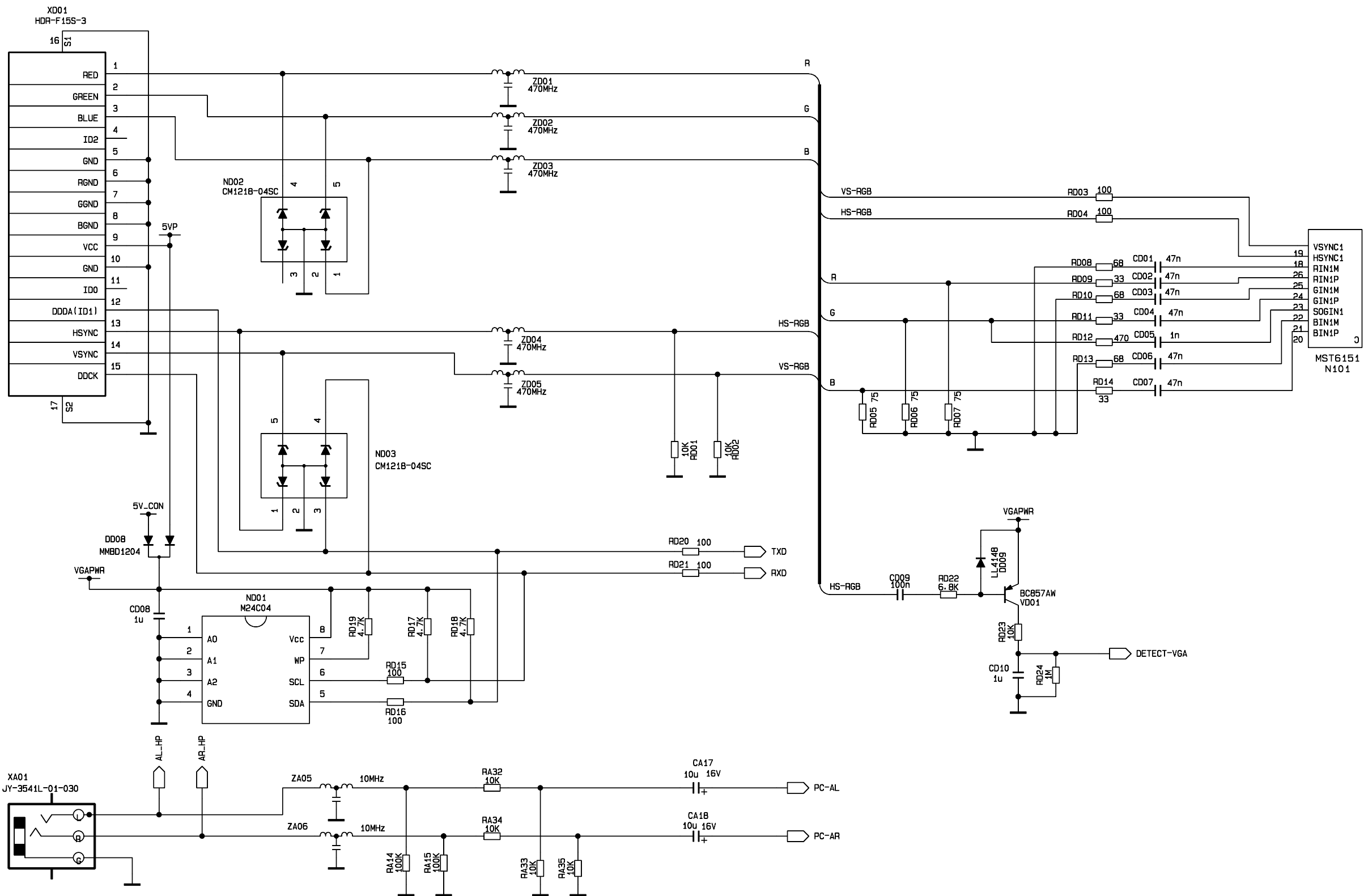




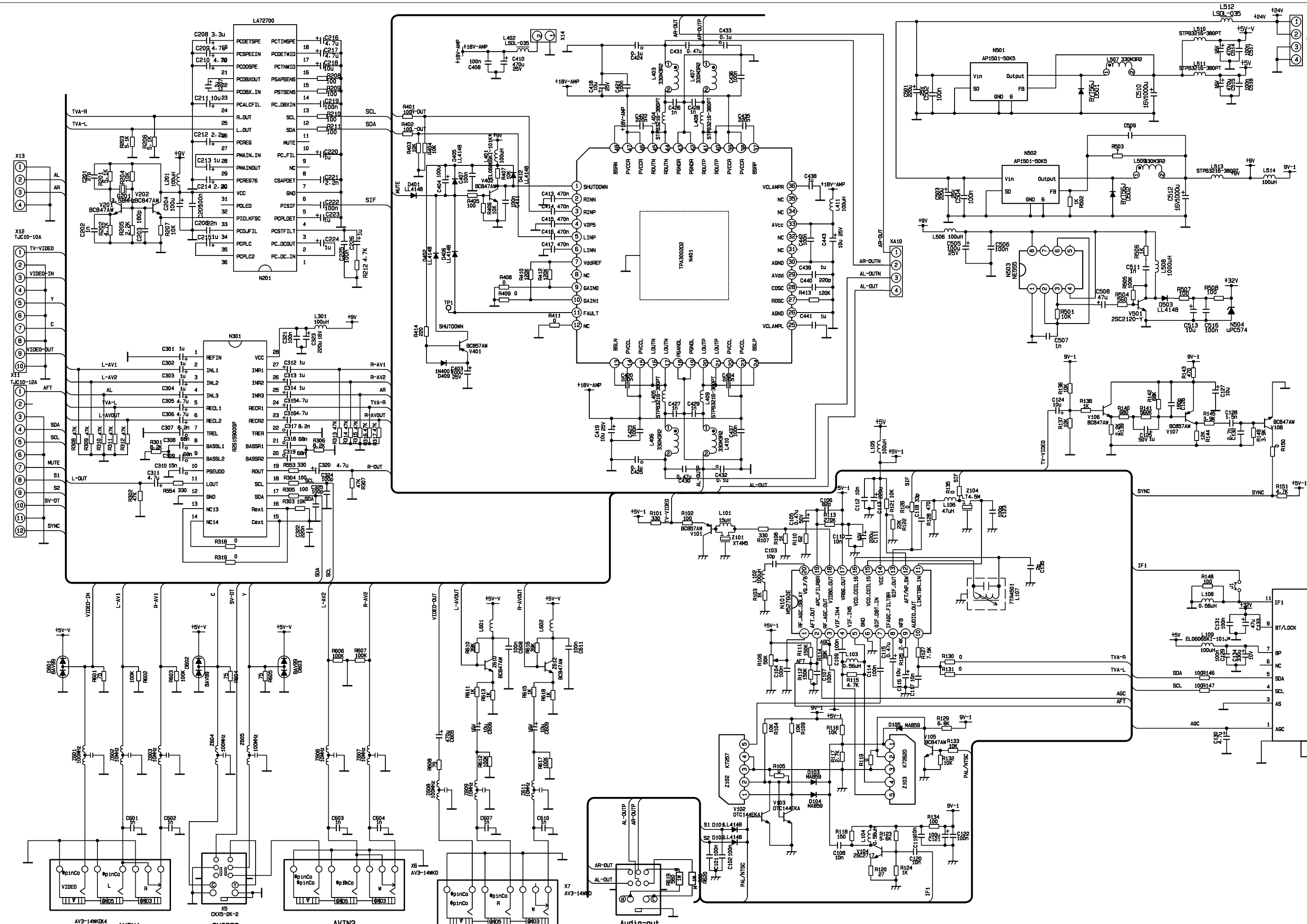


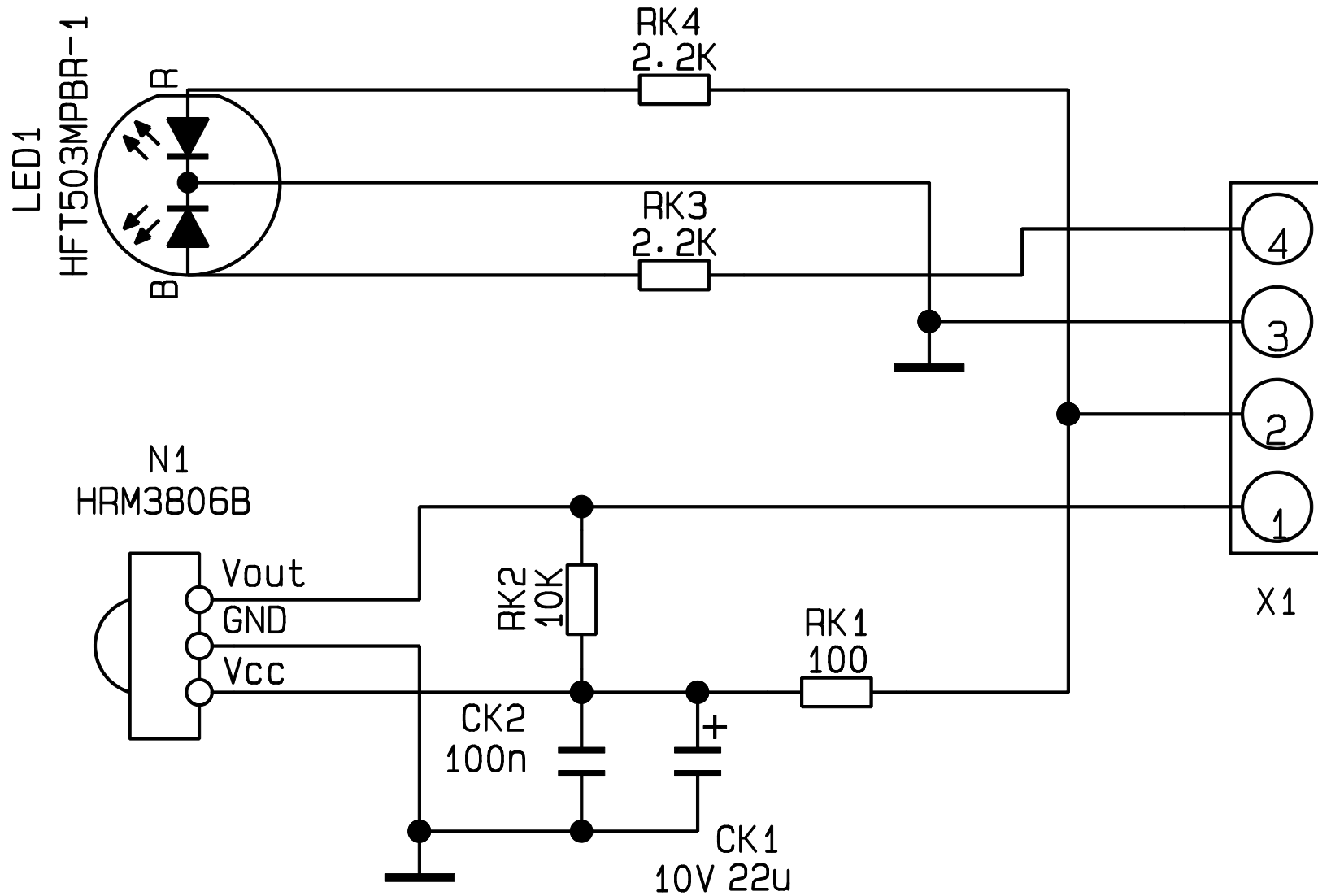






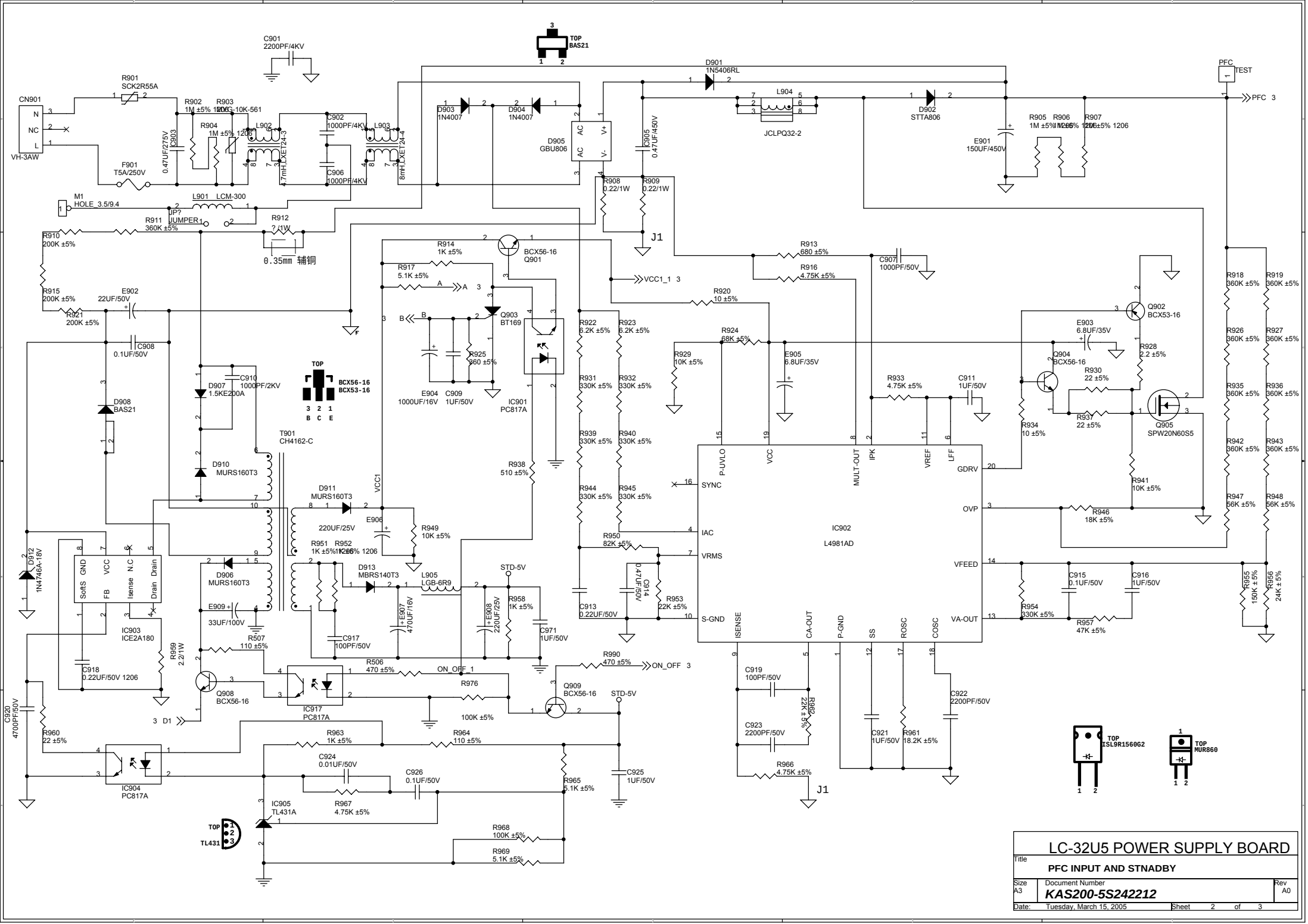
1
2
3
4
5
6



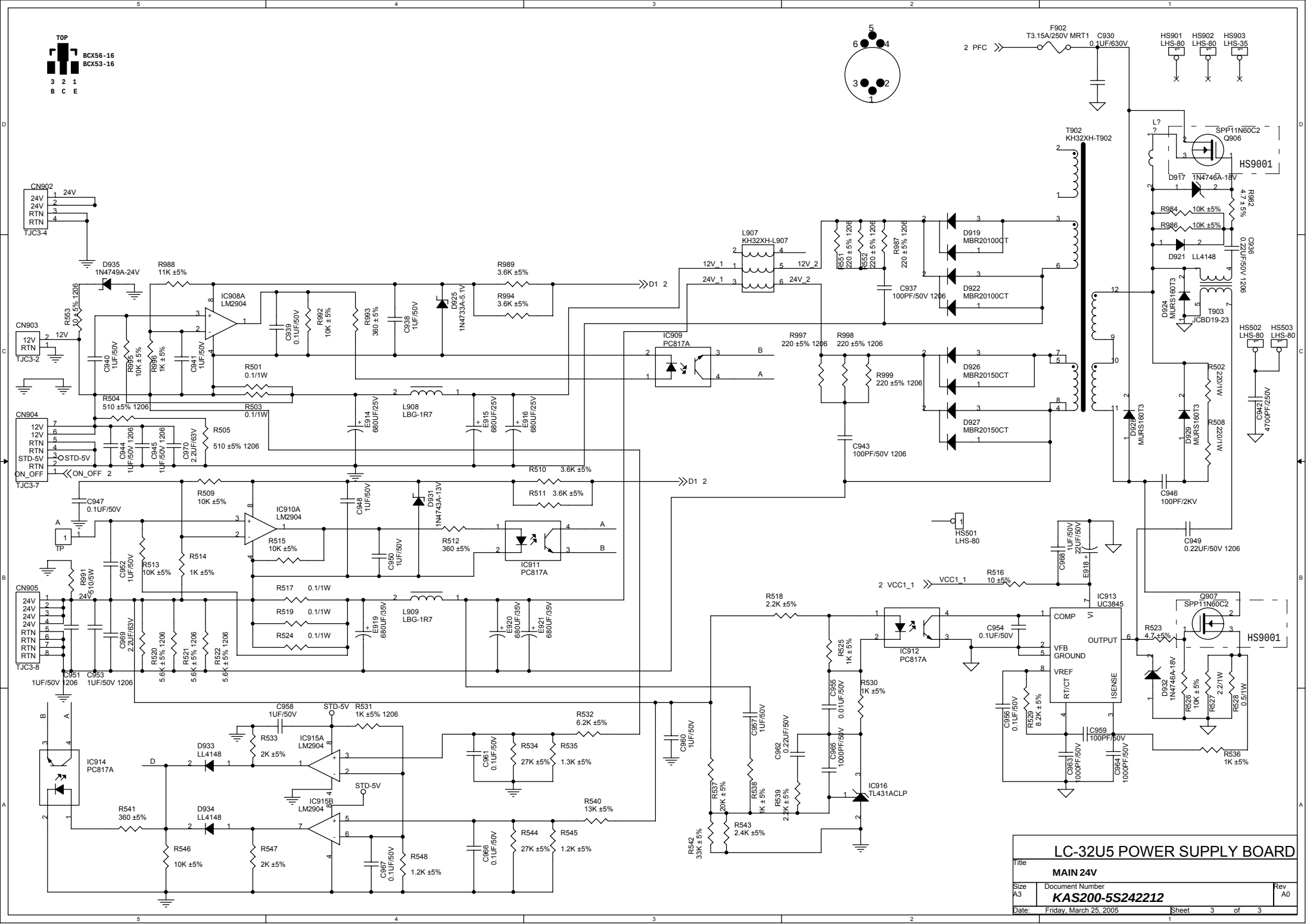


782-L32U5-0900

2005. 2. 26

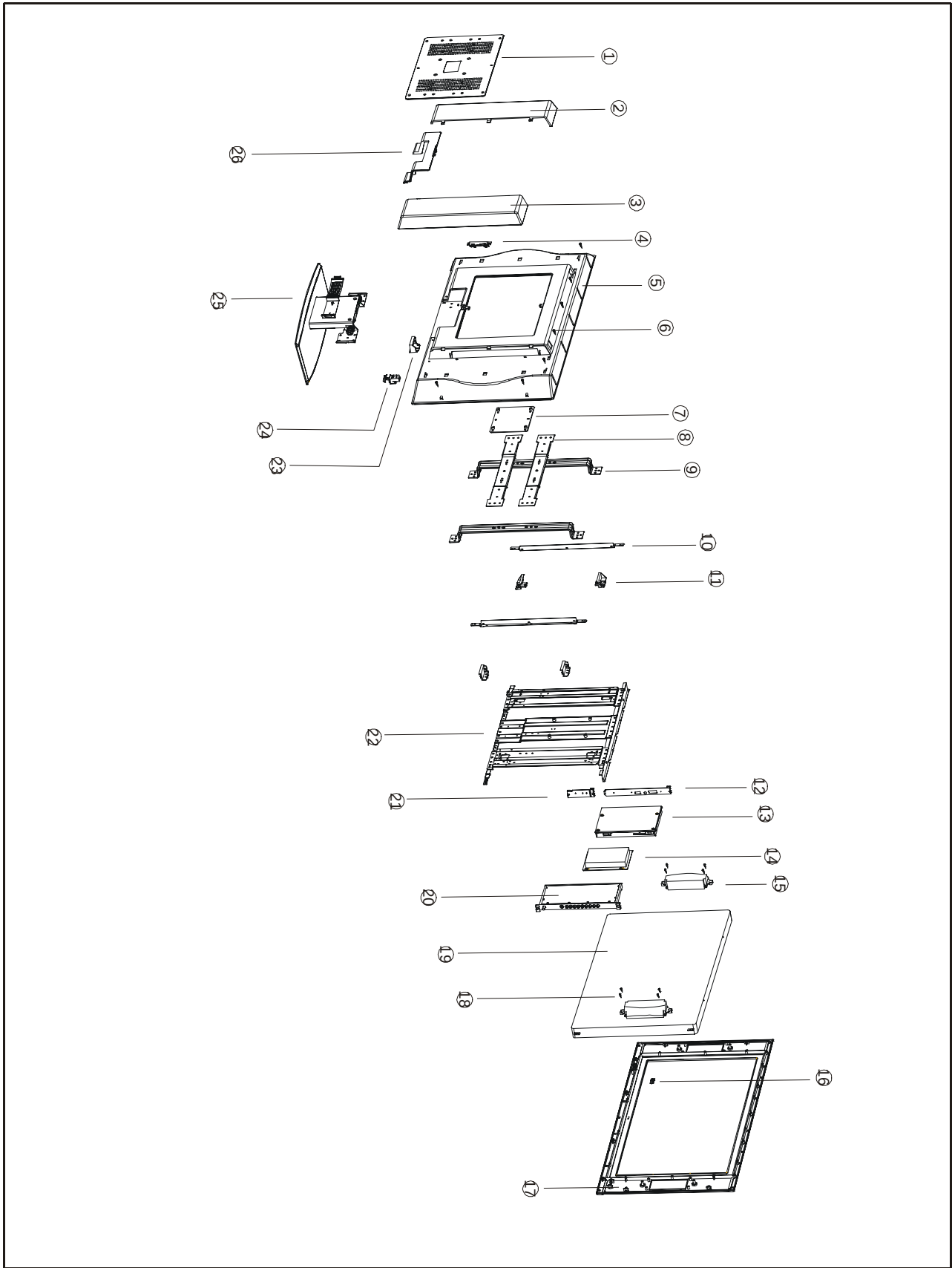


LC-32U5 POWER SUPPLY BOARD			
PFC INPUT AND STNADBY			
Title	PFC INPUT AND STNADBY		
Size	Document Number	Rev	
A3	KAS200-5S242212	A0	
Date:	Tuesday, March 15, 2005	Sheet	2 of 3



Exploded views

LC-32U5



PART LIST OF EXPLODED VIEW

NO.	DESCRIPTION	PART#
1	Back cover	808-10756-AF0
2	Left side cover	808-10757-AF0
3	Right side cover	808-10758-AF0
4	Button board assy	667-L27U6-05
5	Rear cabinet assy	611-G05RPJAF1
6	Screw	851-23010-14
7	Wall mount bracket (middle)	870-10133-00B
8	Wall mount bracket (horizontal)	870-10218-00B
9	Wall mount bracket (vertical)	870-10219-00
10	Panel trans-connecting support	803-10245-00
11	Guide orbit (upper)	870-30146-00
12	Digital board baffle	804-2A441-00D
13	CPU board assay	667-L32U16-56A
14	Power supply board assy	667-L32U18-20
15	Speaker assy	615-20435-00
16	LED column	700-60241/60242 -00
17	Front cabinet	780-G05W2JAR2B
18	Screw	855-A0029-00
19	LCD panel	335-32002-00
20	Video processor	667-L27U6-40A
22	LCD panel fixed support	615-10538-00
23	Power socket	364-23207-00
25	Stand	615-10464-07
26	Transfer axis cover	808-10759-AF0

	PART LIST	
PART#	DESCRIPTION	LOCA.NO.
KEY1	HDCP	N803
100-L32U50-17	LC-32U5D	
100-L32U50-01	LC-32U5 02	
335-32002-00	DISPLAY SCREEN V320B1-L01 !	
364-23207-00	AC HOLDER HF-301POWER SOCKET	
364-41207-00	ANTENNA SOCKET HR-F	
485-10144-00	POWER CORD LAP-31+LAS-13 !	
485-10144-00	POWER CORD LAP-31+LAS-13 !	
485-10157-00	POWER CORD LAP-31+730 BLACK 2m !	
488-10012-00	BATTERY 7#(made in china	
604-L32U57-00	OWNER'S MANUAL(DIGISTAR,CMO)	
605-L32U57-00	WALL MOUNT GUIDE	
611-G05RP-AN0	BACK CABINET ASS'Y (GREY 08)	
611-G05RP-AN0	BACK CABINET ASS'Y (GREY 08)	
611-G05RPJAF1	BACK CABINET ASS'Y (HIPS V0 GREY 05	
615-10538-00	LCD SCREEN HOLDER ASS'Y	
615-20435-00	SPEAKER ASS'Y (8Ω8W)	
644-10184-05	IMITATEUL1015 18# 100mm YELLOW /GREEN	
655-21201-105	(2-PINS) LEAD WITH HOUSING	
655-33901-13	(3-PINS) LEAD WITH HOUSING	
655-41201-307	(4-PINS) LEAD WITH HOUSING	
655-41201-97	(4-PINS) LEAD WITH HOUSING	
655-44301-26	(4-PINS) LEAD WITH HOUSING	
655-81202-74	(8-PINS) LEAD WITH HOUSING	
655-B1201-45	(12-PINS) LEAD WITH HOUSING	
655-B1202-51	(12-PINS) LEAD WITH HOUSING	
655-TE301-17	(10-PINS) LEAD WITH HOUSING	
665-D0002-158	CONNECT LINE AV-SP2XLS	
665-D0002-158	CONNECT LINE AV-SP2XLS	
665-D0002-421	VIDEO LINE BLUE GREEN RED	
665-D0002-422	VIDEO LINE YELLOW WHITE RED	
665-D0002-423	AUDIO LINE XH-3.5-RCA-2000	
665-D0002-423	AUDIO LINE XH-3.5-RCA-2000	
665-D0002-499	* VIDEO LINE 2 -PINS2MRED WHITE	
665-D0002-499	* VIDEO LINE 2 -PINS2MRED WHITE	
665-D0002-510	VGA LINE XH-LCD-52	
665-D0002-510	VGA LINE XH-LCD-52	
665-D0002-582	LVDS LINE 30-PINS300mm	
666-21301-00	MAGNETISM CLASPER ZCAT1325-0530A	
666-21301-00	MAGNETISM CLASPER ZCAT1325-0530A	
700-60241-00	LED COLUMN(IR RECEIVE)	
700-60242-00	LED COLUMN(INDICATOR LIGHT)	
780-G05W0-GA5	FRONT CABINET (BLACK / SILVERY WHITE 06 COVER	
780-G05W0-GA5	FRONT CABINET (BLACK / SILVERY WHITE 06 COVER	
780-G05W2JAR2B	FRONT CABINET (ABS V0 BLACK SILK-SCREEN)	
803-10245-00	LCD SCREEN TRANS-CONNECTING SUPPORT	

[illegible]

852-43008-84	SCREW F(+) M3X8-Y	
852-43008-84	SCREW F(+) M3X8-Y	
852-44008-82	SCREW F(+)M4X8-D.Ni	
852-44008-82	SCREW F(+)M4X8-D.Ni	
852-44008-84	SCREW F(+) M4X8-Y	
852-44008-84	SCREW F(+) M4X8-Y	
852-44010-84	SCREW F(+) M4X10-Y	
852-44010-84	SCREW F(+) M4X10-Y	
852-44010-84	SCREW F(+) M4X10-Y	
852-44010-84	SCREW F(+) M4X10-Y	
852-53008-81	SCREW SJ2830 M3X8-D.Zn	
852-53008-81	SCREW SJ2830 M3X8-D.Zn	
852-53008-84	SCREW SJ2830-87M3X8-Y	
852-53008-84	SCREW SJ2830-87M3X8-Y	
852-53012-81	SCREW SJ2830 M3X12-D.Zn	
852-53012-81	SCREW SJ2830 M3X12-D.Zn	
852-53012-81	SCREW SJ2830 M3X12-D.Zn	
852-53012-81	SCREW SJ2830 M3X12-D.Zn	
852-53012-81	SCREW SJ2830 M3X12-D.Zn	
852-54006-84	SCREW SJ2830 M4X6-Y	
852-54006-84	SCREW SJ2830 M4X6-Y	
852-54010-84	SCREW SJ2830 M4X10-Y	
852-54010-84	SCREW SJ2830 M4X10-Y	
852-64010-81	SCREW W(+) M4X10-D.Zn	
855-A0029-00	SCREW ST4X14	
855-A0029-00	SCREW ST4X14	
859-11398-00	INVERTER PIECE SHIELD COVER	
862-20039-00	CARTON CLIPS	
863-81363-00	POLY FOAM (TOP)	
863-81364-00	POLY FOAM (BOTTOM)	
868-10043-00	WASHER (14X4X1 METAL)	
868-20453-00	RUBBER WASHER	
870-10133-00B	WALL MOUNT BRACKET (MIDDLE)	
870-10218-00B	WALL MOUNT BRACKET (HORIZONGTAL)	
870-10219-00	WALL MOUNT BRACKET (VERTICAL)	
870-30141-AF0	POWER SOCKET BRACKET (GREY 05)	
870-30141-AN0	POWER SOCKET BRACKET (GREY 08)	
870-30141-AN0	POWER SOCKET BRACKET (GREY 08)	
870-30143-00	COVER BOARD BUTTON BRACKET 2	
870-30146-00	LEADING TRACK (TOP)	
870-30148-00	LEADING TRACK (BOTTOM)	
870-3A144-00	LEADING TRACK (LEFT)	
870-3A145-00	LEADING TRACK (RIGHT)	
881-60085	BLANK WARNING LABEL	
881-61884-00	CSA WARNING LABEL	
881-62875-95A	BACK PLATE LABEL (LC-32U5D,DIGISTAR	
881-63329-00	LABEL (FPE2000,AUDIOVOX)	
881-63840-00	POWER SYMBOL LABEL	
881-64043-00	TRANSPORTATION LABEL (LC-32U5,DIGISTAR)	

881-80777-00	OPERATION CARD (Digistar, L32U7)	
881-80788-00	REGISTER CARD (DIGISTAR)	
881-80792-00	EXTENDED CARD (DIGISTAR,27-32LCD)	
881-80811-00	ACKNOWLEDGEMENT CARD ((DIGISTAR)	
886-31021-00	ACCESSORY BOX (15L)	
886-31729-00	CARTON BOX (BLANK) TOP COVER	
886-31729-00	CARTON BOX (BLANK) TOP COVER	
886-31729-260W	CARTON BOX (LC-32U5D,DIGISTAR)	
886-31730-00	CARTON BOX BOTTOM COVER	
887-20047-01A	ACCESSORY PALSTIC BAG ()	
887-21097-P0	PE/PEARL COTTONPALSTIC BAG 1200X1050	
894-30080-11	WASHER GB97.1-85-8-DZN	
894-70040-11	WASHER GB862.1-87-4-D.Zn	
SL27U70-10C10	SOFTWARE HDMI DDC	NH01
SL32U50-10B10	SOFTWARE CANADA PRIMA LOGO	
667-L32U16-56A	CPU BOARD ASS'Y	
667-L32U16-56A\	CPU BOARD ASS'Y (MANUAL INSERTION)	
\667-L27U6-56A\	CPU BOARD ASS'Y (MANUAL INSERTION)	
\364-34104-00	4-PINS CONNECTORS TJC3-04AWT	X503
\364-3B104-00	102-PINS CONNECTORS TJC3-12AWT	X503
\464-6F747-M1	ELECTROLYTIC CAPACITOR CD110-35V-470uF-M	C503
\808-1G753-AF0A	DIGITAL BOARD BAFFLE (GREY G05)	
329-61103-00	CRYSTAL 11.0592MHz	Z801
329-61402-00	CRYSTAL HC-49/US 14.31818MHZ	Z101
329-61402-00	CRYSTAL HC-49/US 14.31818MHZ	Z601
340-00287-00	DIODE 1N5822	D503
340-00287-00	DIODE 1N5822	D504
352-24080-40	*IC CAT24WC08P	N803
364-11212-00	EARPHONE JACK ST-112	XA01
364-34104-00	4-PINS CONNECTORS TJC3-04AWT	X502
364-34186-00	4-PINS CONNECTORS TJC10-4AWT	X801
364-34186-00	4-PINS CONNECTORS TJC10-4AWT	X802
364-34186-00	4-PINS CONNECTORS TJC10-4AWT	XA02
364-38104-00	8-PINS CONNECTORS TJC3-08AWT	X501
364-3B104-00	102-PINS CONNECTORS TJC3-12AWT	X503
364-3B186-00	12-PINS CONNECTORS TJC10-12AW	X803
364-3D186-00	10-PINS CONNECTORS TJC10-10AW	X601
364-91227-00	VGA SOCKET SCREW	XD01
364-95209-00	AV JACK AV13-05-501	XV01
464-2F510-K0	ELECTROLYTIC CAPACITOR CA42-35V-1uF-K	CA03
464-2F510-K0	ELECTROLYTIC CAPACITOR CA42-35V-1uF-K	CA05
464-6D622-M02	ELECTROLYTIC CAPACITOR CD110-16V-22uF-M	C813
464-6D710-M02	ELECTROLYTIC CAPACITOR CD110-16V-100uF-M	CA11
464-6D810-M0	ELECTROLYTIC CAPACITOR CD110-16V-1000uF-M	C511
464-6D810-M0	ELECTROLYTIC CAPACITOR CD110-16V-1000uF-M	C515
464-6F747-M1	ELECTROLYTIC CAPACITOR CD110-35V-470uF-M	C501
464-6F747-M1	ELECTROLYTIC CAPACITOR CD110-35V-470uF-M	C503

464-6F747-M1	ELECTROLYTIC CAPACITOR CD110-35V-470uF-M	C505
464-6F747-M1	ELECTROLYTIC CAPACITOR CD110-35V-470uF-M	C519
467-2GA47-H0	METAL RESISTOR 2W-4.7Ω-JL	R507
477-40230-00	FIXED COIL LH470-1	L501
808-1G753-AF0A	DIGITAL BOARD BAFFLE (涂 GREY G05)	
808-70348-00	INSULATOR	
808-70369-00	INSULATOR	
851-43012-14	SCREW F(+)T3x12A-Y	
851-43012-14	SCREW F(+)T3x12A-Y	
852-43012-84	SCREW F(+) M3X12-Y	
855-A0053	HEXAGONAL SCREW M3X7	
859-11396-00	DIGITAL BOARD SHIELD COVER (TOP)	
859-11397-00A	DIGITAL BOARD SHIELD COVER (BOTTOM)	
667-L27U6-56A*	CPU BOARD ASS'Y (SMD ,AUTOMATIC INSERTION)	
340-00001-0S	SMD DIODE LL4148	D801
340-00001-0S	SMD DIODE LL4148	DD09
340-00289-00	SMD DIODE BAV99LT1	DV01
340-00289-00	SMD DIODE BAV99LT1	DV02
340-00289-00	SMD DIODE BAV99LT1	DV03
340-00289-00	SMD DIODE BAV99LT1	DH01
340-00289-00	SMD DIODE BAV99LT1	DH03
340-00289-00	SMD DIODE BAV99LT1	DH05
340-00289-00	SMD DIODE BAV99LT1	DH07
340-00289-00	SMD DIODE BAV99LT1	DH02
340-00289-00	SMD DIODE BAV99LT1	DH04
340-00289-00	SMD DIODE BAV99LT1	DH06
340-00289-00	SMD DIODE BAV99LT1	DH08
340-00289-00	SMD DIODE BAV99LT1	DH09
340-00289-00	SMD DIODE BAV99LT1	DH10
340-00289-00	SMD DIODE BAV99LT1	DH11
340-00372-00	SMD DIODE MMBD1204	DH12
340-00372-00	SMD DIODE MMBD1204	DD08
342-01440-10	SMD TRANSISTOR DTC144EKA	VB01
342-01440-10	SMD TRANSISTOR DTC144EKA	V502
342-01440-10	SMD TRANSISTOR DTC144EKA	VB02
342-01440-10	SMD TRANSISTOR DTC144EKA	V501
342-08470-90	SMD TRANSISTOR BC847AW	V802
342-08470-90	SMD TRANSISTOR BC847AW	V801
342-08470-90	SMD TRANSISTOR BC847AW	VA01
342-08470-90	SMD TRANSISTOR BC847AW	VH01
342-08570-90	SMD TRANSISTOR BC857 AW	V601
342-08570-90	SMD TRANSISTOR BC857 AW	VD01
353-05020-10	SMD IC MM502	N801
353-11170-20	SMD IC AS1117M-3.3 (M)	N504
353-11170-20	SMD IC AS1117M-3.3 (M)	N508
353-11170-20	SMD IC AS1117M-3.3 (M)	N505
353-11170-G0	SMD IC AMS1117-1.8 (D)	N509
353-11170-G0	SMD IC AMS1117-1.8 (D)	N506

353-11170-G0	SMD IC AMS1117-1.8 (D)	N507
353-05040-20	SMD IC PESD5V0L4UG	ND02
353-05040-20	SMD IC PESD5V0L4UG	ND03
353-15010-50	SMD ICAP1501-50K5	N501
353-15010-50	SMD ICAP1501-50K5	N502
353-16161-70	SMD IC M12L1616A-7T (D)	N602
353-24040-00	SMD IC 24LC04B/SN	NH01
353-24040-00	SMD IC 24LC04B/SN	ND01
353-24320-50	SMD IC24LC32A/SN	N802
353-40520-80	SMD IC HEF4052BT (M)	NA02
353-43400-30	SMD IC CS4340-KS (M)	NA01
353-51600-10	*SMD ICTVP5160-PNP	N601
353-61510-10	SMD IC MST6151DA	N101
353-64322-60	SMD ICHY57V643220CT-6 (D)	N201
353-99330-00	SMD IC SI9933ADY (O)	N503
364-T1904-00	SMD 19-PINSHDMI 1775245-2	XH01
364-T3001-00	SMD 30-PINSFF-A1255-WRS	XP01
455-10033-H9	SMD RESISTOR NCA4R330JR	RP88
455-10033-H9	SMD RESISTOR NCA4R330JR	RP82
455-10247-H9	SMD RESISTOR NCA4R472JR	RP83
455-10247-H9	SMD RESISTOR NCA4R472JR	RP84
455-10247-H9	SMD RESISTOR NCA4R472JR	RP85
455-12010-H0	SMD RESISTOR FTR0603100JR	RH13
455-12010-H0	SMD RESISTOR FTR0603100JR	RH14
455-12010-H0	SMD RESISTOR FTR0603100JR	RH15
455-12010-H0	SMD RESISTOR FTR0603100JR	RH16
455-12010-H0	SMD RESISTOR FTR0603100JR	RH10
455-12010-H0	SMD RESISTOR FTR0603100JR	RH11
455-12010-H0	SMD RESISTOR FTR0603100JR	RH12
455-12010-H0	SMD RESISTOR FTR0603100JR	RH17
455-12022-H0	SMD RESISTOR FTR0603220JR	R802
455-12022-H0	SMD RESISTOR FTR0603220JR	R803
455-12022-H0	SMD RESISTOR FTR0603220JR	R203
455-12022-H0	SMD RESISTOR FTR0603220JR	R202
455-12022-H0	SMD RESISTOR FTR0603220JR	R204
455-12022-H0	SMD RESISTOR FTR0603220JR	R609
455-12033-H0	SMD RESISTOR FTR0603330JR	R805
455-12033-H0	SMD RESISTOR FTR0603330JR	R812
455-12033-H0	SMD RESISTOR FTR0603330JR	R804
455-12033-H0	SMD RESISTOR FTR0603330JR	RP04
455-12033-H0	SMD RESISTOR FTR0603330JR	RP03
455-12033-H0	SMD RESISTOR FTR0603330JR	R613
455-12033-H0	SMD RESISTOR FTR0603330JR	RV08
455-12033-H0	SMD RESISTOR FTR0603330JR	RV10
455-12033-H0	SMD RESISTOR FTR0603330JR	RV13
455-12033-H0	SMD RESISTOR FTR0603330JR	RD09
455-12033-H0	SMD RESISTOR FTR0603330JR	RD11
455-12033-H0	SMD RESISTOR FTR0603330JR	RD14
455-12047-H0	SMD RESISTOR FTR0603470JR	R102

455-12047-H0	SMD RESISTOR FTR0603470JR	R201
455-12047-H0	SMD RESISTOR FTR0603470JR	R610
455-12075-H0	SMD RESISTOR FTR0603750JR	RV04
455-12075-H0	SMD RESISTOR FTR0603750JR	RV05
455-12075-H0	SMD RESISTOR FTR0603750JR	RV06
455-12075-H0	SMD RESISTOR FTR0603750JR	RD08
455-12075-H0	SMD RESISTOR FTR0603750JR	RD10
455-12075-H0	SMD RESISTOR FTR0603750JR	RD13
455-12075-H0	SMD RESISTOR FTR0603750JR	RV02
455-12075-H0	SMD RESISTOR FTR0603750JR	RV03
455-12075-H0	SMD RESISTOR FTR0603750JR	RV01
455-12075-H0	SMD RESISTOR FTR0603750JR	RD07
455-12075-H0	SMD RESISTOR FTR0603750JR	RD06
455-12075-H0	SMD RESISTOR FTR0603750JR	RD05
455-12110-H0	SMD RESISTOR FTR0603101JR	R807
455-12110-H0	SMD RESISTOR FTR0603101JR	RB03
455-12110-H0	SMD RESISTOR FTR0603101JR	R606
455-12110-H0	SMD RESISTOR FTR0603101JR	R607
455-12110-H0	SMD RESISTOR FTR0603101JR	R605
455-12110-H0	SMD RESISTOR FTR0603101JR	RA11
455-12110-H0	SMD RESISTOR FTR0603101JR	RA10
455-12110-H0	SMD RESISTOR FTR0603101JR	RH07
455-12110-H0	SMD RESISTOR FTR0603101JR	RH06
455-12110-H0	SMD RESISTOR FTR0603101JR	RH02
455-12110-H0	SMD RESISTOR FTR0603101JR	RD21
455-12110-H0	SMD RESISTOR FTR0603101JR	RD15
455-12110-H0	SMD RESISTOR FTR0603101JR	RD20
455-12110-H0	SMD RESISTOR FTR0603101JR	RD16
455-12110-H0	SMD RESISTOR FTR0603101JR	RD03
455-12110-H0	SMD RESISTOR FTR0603101JR	RD04
455-12110-H0	SMD RESISTOR FTR0603101JR	RH18
455-12110-H0	SMD RESISTOR FTR0603101JR	RH19
455-12122-H0	SMD RESISTOR FTR0603221JR	R618
455-12139-H0	SMD RESISTOR FTR0603391JR	RH09
455-12147-H0	SMD RESISTOR FTR0603471JR	R101
455-12147-H0	SMD RESISTOR FTR0603471JR	R811
455-12147-H0	SMD RESISTOR FTR0603471JR	RV11
455-12147-H0	SMD RESISTOR FTR0603471JR	RD12
455-12210-H0	SMD RESISTOR FTR0603102JR	R810
455-12210-H0	SMD RESISTOR FTR0603102JR	R504
455-12210-H0	SMD RESISTOR FTR0603102JR	RH01
455-12215-H0	SMD RESISTOR FTR0603152JR	R806
455-12227-H0	SMD RESISTOR FTR0603272JR	R503
455-12247-H0	SMD RESISTOR FTR0603472JR	R813
455-12247-H0	SMD RESISTOR FTR0603472JR	R814
455-12247-H0	SMD RESISTOR FTR0603472JR	R823
455-12247-H0	SMD RESISTOR FTR0603472JR	R505
455-12247-H0	SMD RESISTOR FTR0603472JR	RV14
455-12247-H0	SMD RESISTOR FTR0603472JR	RV15

455-12247-H0	SMD RESISTOR FTR0603472JR	RA28
455-12247-H0	SMD RESISTOR FTR0603472JR	RA30
455-12247-H0	SMD RESISTOR FTR0603472JR	RH03
455-12247-H0	SMD RESISTOR FTR0603472JR	RD17
455-12247-H0	SMD RESISTOR FTR0603472JR	RD18
455-12247-H0	SMD RESISTOR FTR0603472JR	RD19
455-12247-H0	SMD RESISTOR FTR0603472JR	RA32
455-12247-H0	SMD RESISTOR FTR0603472JR	RA34
455-12247-H0	SMD RESISTOR FTR0603472JR	RB05
455-12247-H0	SMD RESISTOR FTR0603472JR	RB02
455-12268-H0	SMD RESISTOR FTR0603682JR	R617
455-12268-H0	SMD RESISTOR FTR0603682JR	RD22
455-12310-H0	SMD RESISTOR FTR0603103JR	R820
455-12310-H0	SMD RESISTOR FTR0603103JR	R815
455-12310-H0	SMD RESISTOR FTR0603103JR	R816
455-12310-H0	SMD RESISTOR FTR0603103JR	R819
455-12310-H0	SMD RESISTOR FTR0603103JR	R821
455-12310-H0	SMD RESISTOR FTR0603103JR	R822
455-12310-H0	SMD RESISTOR FTR0603103JR	R818
455-12310-H0	SMD RESISTOR FTR0603103JR	R817
455-12310-H0	SMD RESISTOR FTR0603103JR	RB06
455-12310-H0	SMD RESISTOR FTR0603103JR	R506
455-12310-H0	SMD RESISTOR FTR0603103JR	RB01
455-12310-H0	SMD RESISTOR FTR0603103JR	RA04
455-12310-H0	SMD RESISTOR FTR0603103JR	RA03
455-12310-H0	SMD RESISTOR FTR0603103JR	RA01
455-12310-H0	SMD RESISTOR FTR0603103JR	RA02
455-12310-H0	SMD RESISTOR FTR0603103JR	R616
455-12310-H0	SMD RESISTOR FTR0603103JR	R608
455-12310-H0	SMD RESISTOR FTR0603103JR	R612
455-12310-H0	SMD RESISTOR FTR0603103JR	R611
455-12310-H0	SMD RESISTOR FTR0603103JR	R614
455-12310-H0	SMD RESISTOR FTR0603103JR	RA17
455-12310-H0	SMD RESISTOR FTR0603103JR	RA16
455-12310-H0	SMD RESISTOR FTR0603103JR	RA18
455-12310-H0	SMD RESISTOR FTR0603103JR	RA20
455-12310-H0	SMD RESISTOR FTR0603103JR	RA22
455-12310-H0	SMD RESISTOR FTR0603103JR	RA24
455-12310-H0	SMD RESISTOR FTR0603103JR	RA19
455-12310-H0	SMD RESISTOR FTR0603103JR	RA21
455-12310-H0	SMD RESISTOR FTR0603103JR	RA23
455-12310-H0	SMD RESISTOR FTR0603103JR	RA25
455-12310-H0	SMD RESISTOR FTR0603103JR	RA26
455-12310-H0	SMD RESISTOR FTR0603103JR	RA27
455-12310-H0	SMD RESISTOR FTR0603103JR	RA29
455-12310-H0	SMD RESISTOR FTR0603103JR	RA31
455-12310-H0	SMD RESISTOR FTR0603103JR	RH04
455-12310-H0	SMD RESISTOR FTR0603103JR	RH05
455-12310-H0	SMD RESISTOR FTR0603103JR	RH08

455-12310-H0	SMD RESISTOR FTR0603103JR	RD01
455-12310-H0	SMD RESISTOR FTR0603103JR	RD02
455-12310-H0	SMD RESISTOR FTR0603103JR	RD23
455-12310-H0	SMD RESISTOR FTR0603103JR	RA33
455-12310-H0	SMD RESISTOR FTR0603103JR	RA35
455-12322-H0	SMD RESISTOR FTR0603223JR	R808
455-12322-H0	SMD RESISTOR FTR0603223JR	R809
455-12410-H0	SMD RESISTOR FTR0603104JR	RB04
455-12410-H0	SMD RESISTOR FTR0603104JR	R615
455-12410-H0	SMD RESISTOR FTR0603104JR	RA12
455-12410-H0	SMD RESISTOR FTR0603104JR	RA13
455-12410-H0	SMD RESISTOR FTR0603104JR	RA14
455-12410-H0	SMD RESISTOR FTR0603104JR	RA15
455-12418-H0	SMD RESISTOR FTR0603184JR	R801
455-12510-H0	SMD RESISTOR FTR0603105JR	R103
455-12510-H0	SMD RESISTOR FTR0603105JR	RD24
455-30022-H9	SMD RESISTOR NCA4R220JR	RP02
455-30022-H9	SMD RESISTOR NCA4R220JR	RP01
455-30022-H9	SMD RESISTOR NCA4R220JR	RP61
455-30022-H9	SMD RESISTOR NCA4R220JR	RP62
456-1447K-B2	SMD CAPACITOR 08052R474K160BA	C115
456-1447K-B2	SMD CAPACITOR 08052R474K160BA	C119
456-1447K-B2	SMD CAPACITOR 08052R474K160BA	C127
456-1447K-B2	SMD CAPACITOR 08052R474K160BA	C134
456-1447K-B2	SMD CAPACITOR 08052R474K160BA	C132
456-1447K-B2	SMD CAPACITOR 08052R474K160BA	C136
456-1447K-B2	SMD CAPACITOR 08052R474K160BA	C141
456-1447K-B2	SMD CAPACITOR 08052R474K160BA	CH01
456-2110H-11	SMD CAPACITOR 0603CG101J250BA	C808
456-2110H-11	SMD CAPACITOR 0603CG101J250BA	C810
456-2110H-11	SMD CAPACITOR 0603CG101J250BA	C809
456-2110H-11	SMD CAPACITOR 0603CG101J250BA	C811
456-2210K-B1	SMD CAPACITOR 06032R102K250BA	CV05
456-2210K-B1	SMD CAPACITOR 06032R102K250BA	CD05
456-2310R-C1	SMD CAPACITOR 06032E103Z250BA	C812
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C816
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C802
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C804
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C104
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C106
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C105
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C815
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C814
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C518
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C520
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	CB01
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C517
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	CB02
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	CA04

456-2410M-C1	SMD CAPACITOR 06032E104M250BA	CA06
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	CA02
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C111
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C113
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C527
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C522
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C133
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C137
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C147
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C146
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C145
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C144
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C149
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C143
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C148
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C121
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C120
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C128
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C118
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C124
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C117
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C123
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C116
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C122
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C139
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C138
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C516
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C508
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C512
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C506
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C504
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C514
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C510
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C653
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C529
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C531
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C651
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C131
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C150
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C114
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C526
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C524
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C533
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C502
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C209
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C203
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C204
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C205
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C206

[illegible]

456-2447R-C1	SMD CAPACITOR 06032E474Z250BA	CB04
456-2447R-C2	SMD CAPACITOR C2012Y5V1E474ZT	C126
456-2447R-C2	SMD CAPACITOR C2012Y5V1E474ZT	C130
456-2447R-C2	SMD CAPACITOR C2012Y5V1E474ZT	C142
456-2510R-C1	SMD CAPACITOR 06032E105Z250BA	CB03
456-2510R-C1	SMD CAPACITOR 06032E105Z250BA	CD08
456-2510R-C1	SMD CAPACITOR 06032E105Z250BA	CD10
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C202
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C620
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C624
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C630
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C635
456-3015H-11	SMD CAPACITOR 0603CG150J500BA	C215
456-3015H-11	SMD CAPACITOR 0603CG150J500BA	C614
456-3030H-11	SMD CAPACITOR 0603CG300J500BA	C806
456-3030H-11	SMD CAPACITOR 0603CG300J500BA	C807
456-3033H-11	SMD CAPACITOR C1608CH1H330JT	C107
456-3033H-11	SMD CAPACITOR C1608CH1H330JT	C108
456-3033H-11	SMD CAPACITOR C1608CH1H330JT	C109
456-3033H-11	SMD CAPACITOR C1608CH1H330JT	C102
456-3033H-11	SMD CAPACITOR C1608CH1H330JT	C103
456-3033H-11	SMD CAPACITOR C1608CH1H330JT	C615
456-3033H-11	SMD CAPACITOR C1608CH1H330JT	C616
456-3033H-11	SMD CAPACITOR C1608CH1H330JT	C617
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	C101
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	C125
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	C129
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	C140
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	C135
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CV01
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CV06
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CV04
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CV07
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CV02
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CV03
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CD02
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CD06
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CD04
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CD03
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CD01
456-3347H-11	SMD CAPACITOR 0603CG473J500BA	CD07
477-40212-00	SMD FIXED INDUCTANCE SLF12575T-470M2R7	L503
477-40212-00	SMD FIXED INDUCTANCE SLF12575T-470M2R7	L504
477-40267-00	SMD FIXED INDUCTANCE SLF12575T-220M4R0	L507
477-90003-00	SMD FILTER LFA20-2A1E103M	ZA02
477-90003-00	SMD FILTER LFA20-2A1E103M	ZA01
477-90003-00	SMD FILTER LFA20-2A1E103M	ZA03
477-90003-00	SMD FILTER LFA20-2A1E103M	ZA04
477-90003-00	SMD FILTER LFA20-2A1E103M	ZA05

477-90003-00	SMD FILTER LFA20-2A1E103M	ZA06
477-90006-00	SMD FILTER LFA20-2A1E474M	ZV01
477-90006-00	SMD FILTER LFA20-2A1E474M	ZV02
477-90006-00	SMD FILTER LFA20-2A1E474M	ZV03
477-90006-00	SMD FILTER LFA20-2A1E474M	ZD04
477-90006-00	SMD FILTER LFA20-2A1E474M	ZD01
477-90006-00	SMD FILTER LFA20-2A1E474M	ZD05
477-90006-00	SMD FILTER LFA20-2A1E474M	ZD03
477-90006-00	SMD FILTER LFA20-2A1E474M	ZD02
666-12008-00	SMD FERRITE BEAD STBH2012-501PT	L805
666-12008-00	SMD FERRITE BEAD STBH2012-501PT	L804
666-12008-00	SMD FERRITE BEAD STBH2012-501PT	L803
666-12008-00	SMD FERRITE BEAD STBH2012-501PT	L806
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L802
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L801
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	LA01
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L510
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L509
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L102
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L101
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L104
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L103
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L516
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L515
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L514
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L506
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L505
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L513
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L512
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L502
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L511
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L517
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L201
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L602
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L601
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L603
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L604
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L605
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L606
782-L27U61-5600	CPU PCB	
455-22147-H0	SMD RESISTOR RC11-1/8W-470-J	LA02
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C805
464-60533-M02	ELECTROLYTIC CAPACITOR CD110-50V-3.3uF-M	CA09
464-60533-M02	ELECTROLYTIC CAPACITOR CD110-50V-3.3uF-M	CA07
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	CA10
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	CA08
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	CA16
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	CA15
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	CA17

464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	CA18
464-6D622-M02	ELECTROLYTIC CAPACITOR CD110-16V-22uF-M	C803
464-6D622-M02	ELECTROLYTIC CAPACITOR CD110-16V-22uF-M	C619
464-6D647-M02	ELECTROLYTIC CAPACITOR CD110-16V-47uF-M	C500
464-6D647-M02	ELECTROLYTIC CAPACITOR CD110-16V-47uF-M	CA01
464-6D647-M02	ELECTROLYTIC CAPACITOR CD110-16V-47uF-M	C528
464-6D647-M02	ELECTROLYTIC CAPACITOR CD110-16V-47uF-M	C530
464-6D647-M02	ELECTROLYTIC CAPACITOR CD110-16V-47uF-M	C642
464-6D710-M02	ELECTROLYTIC CAPACITOR CD110-16V-100uF-M	C521
464-6D710-M02	ELECTROLYTIC CAPACITOR CD110-16V-100uF-M	C523
464-6D710-M02	ELECTROLYTIC CAPACITOR CD110-16V-100uF-M	C532
464-6D722-M02	ELECTROLYTIC CAPACITOR CD110-16V-220uF-M	C525
464-6D722-M02	ELECTROLYTIC CAPACITOR CD110-16V-220uF-M	C650
464-6D722-M02	ELECTROLYTIC CAPACITOR CD110-16V-220uF-M	C652
464-6D747-M02	ELECTROLYTIC CAPACITOR CD110-16V-470uF-M	C112
464-6D747-M02	ELECTROLYTIC CAPACITOR CD110-16V-470uF-M	C801
464-6D747-M02	ELECTROLYTIC CAPACITOR CD110-16V-470uF-M	C110
464-6F647-M02	ELECTROLYTIC CAPACITOR CD110-35V-47uF-M	C509
464-6F647-M02	ELECTROLYTIC CAPACITOR CD110-35V-47uF-M	C513
464-6F710-M02	ELECTROLYTIC CAPACITOR CD110-35V-100uF-M	C507
535-L32K5-00	WALL MOUNT ASS'Y	
852-34008-81	SCREW B(+) M4X8-D.Zn	
855-B0016-00	EXPANDING BOLT M8X72	
855-C4030-00	SCREW 4X30	
855-C4030-00	SCREW 4X30	
863-80921-00	WALL MOUNT POLY FOAM	
886-31387-00	WALL MOUNT PACKING BOX (455X195X95)	
870-10080-00A	WALL MOUNT HOLDER	
870-10079-00A	WALL MOUNT CONNECT BRACKET (1)	
887-21167-00	WALL MOUNT ACCESSORY PACKING BAG (NEUTRAL)	
615-10464-07	PANEL HOLDER ASS'Y (DZ-0232)	
615-10446-00	AXLETREE ASS'Y	
742-30073-020	TIE (MOLD BLACK)	
807-20221-AR0	HOLDER (BLACK)	
820-20043-00A	BALANCE BOARD	
851-44008-52	SCREW F(+)T4X8G-DNi	
852-14010-81	SCREW P(+)M4X10-D.Zn	
852-14010-81	SCREW P(+)M4X10-D.Zn	
852-43016-85	SCREW F(+)M3X10- BLACK	
852-43016-85	SCREW F(+)M3X10- BLACK	
868-20478-00A	CUSHION	
870-40203-AR0	STAND COLUMN (BLACK)	
852-44010-82	SCREW F(+)M4X10 DNi	
852-44010-82	SCREW F(+)M4X10 DNi	
852-44008-82	SCREW F(+)M4X8-D.Ni	
667-L27U6-05	KEY BOARD ASS'Y	

360-10001-00	TACT SWITCH KFC-A06-4X4.5X5B	S1
360-10001-00	TACT SWITCH KFC-A06-4X4.5X5B	S2
360-10001-00	TACT SWITCH KFC-A06-4X4.5X5B	S3
360-10001-00	TACT SWITCH KFC-A06-4X4.5X5B	S4
360-10001-00	TACT SWITCH KFC-A06-4X4.5X5B	S5
360-10001-00	TACT SWITCH KFC-A06-4X4.5X5B	S6
360-10001-00	TACT SWITCH KFC-A06-4X4.5X5B	S7
364-34186-00	4-PINS CONNECTORS TJC10-4AWT	X1
467-1C210-H03	CARBON RESISTOR 1/6W-1K-J	R2
467-1C210-H03	CARBON RESISTOR 1/6W-1K-J	R5
467-1C247-H03	CARBON RESISTOR 1/6W-4.7K-J	R3
467-1C247-H03	CARBON RESISTOR 1/6W-4.7K-J	R6
467-1C315-H03	CARBON RESISTOR 1/6W-15K-J	R7
998	JUMPER WIRE	R1
998	JUMPER WIRE	R4
782-L27U6-0500	BUTTON PCB	
877-60621-00B	BUTTON	
877-60624-0T0	BUTTON COVER (PLATE SILVERY WHITE)	
667-L27U6-40A	VIDEO PROCESSING BOARD ASS'Y	
667-L27U6-40\	VIDEO PROCESSING BOARD ASS'Y (MANUAL INSERTION)	
329-53601-00	CRYSTAL JA25A 3.579545MHZ	G201
340-00003-00	DIODE IN4001	D409
340-00170-00	DIODE MA859	D104
340-00257-00	DIODE BYT56J	D501
340-00257-00	DIODE BYT56J	D502
467-1E147-H0	CARBON RESISTOR 1/2W-470Ω-J	R619
467-1E147-H0	CARBON RESISTOR 1/2W-470Ω-J	R620
464-6E722-M0	ELECTROLYTIC CAPACITOR CD110-25V-220uF-M	C501
464-6E722-M0	ELECTROLYTIC CAPACITOR CD110-25V-220uF-M	C418
464-6E722-M0	ELECTROLYTIC CAPACITOR CD110-25V-220uF-M	C419
352-52760-10	IC M52760SP	N101
352-05550-00	*IC LM555CN (M)	N503
352-05740-00	IC uPC574 (D)	N504
364-11205-00	EARPHONE JACK 3F27K	X10
364-32101-00	2-PINS CONNECTORS TJC3-02A	X14
364-34101-00	4-PINS CONNECTORS TJC3-04A	X9
364-34101-00	4-PINS CONNECTORS TJC3-04A	XA10
364-3B1AY-00	12-PINS CONNECTORS TJC10-12A	X11
364-3D1AY-00	10-PINS CONNECTORS TJC10-10A	X12
364-91202-00	S-VIDEO TERMINAL CKX5-2K-2	X5
364-93219-00	AV JACK AV3-14WKD	X4
364-93219-00	AV JACK AV3-14WKD	X6
364-93219-00	AV JACK AV3-14WKD	X7
364-341AY-00	4-PINS CONNECTORS JC10-4A	X13
458-0F001-00	SAW FILTER M9352M	Z102
458-07014-00	SAW FILTER M3951M	Z103
462-B0468-H0	POLYESTER CAPACITOR CL21X-50V-0.68uF-J	C432
462-B0468-H0	POLYESTER CAPACITOR CL21X-50V-0.68uF-J	C425

590-40721-00	TUNER TDQ-6F/W134X	TUNER1
462-00368-K0	POLYESTER CAPACITOR CL11-100V-0.068uF-K	C308
462-00368-K0	POLYESTER CAPACITOR CL11-100V-0.068uF-K	C309
462-00368-K0	POLYESTER CAPACITOR CL11-100V-0.068uF-K	C318
462-00368-K0	POLYESTER CAPACITOR CL11-100V-0.068uF-K	C319
464-6E647-M0	ELECTROLYTIC CAPACITOR CD110-25V-47uF-M	C612
464-6E647-M0	ELECTROLYTIC CAPACITOR CD110-25V-47uF-M	C613
471-1110H-003	PEAKING COIL EL0606SKI-101J	L109
471-1110H-003	PEAKING COIL EL0606SKI-101J	L506
471-2122K-10	PEAKING COIL LGA0410-220uH-K	L105
464-6C810-M0	ELECTROLYTIC CAPACITOR CD110-10V-1000uF-M	C510
464-6C810-M0	ELECTROLYTIC CAPACITOR CD110-10V-1000uF-M	C111
464-6C810-M0	ELECTROLYTIC CAPACITOR CD110-10V-1000uF-M	C113
998	JUMPER WIRE	
468-33207-00	POTENTIOMETER EVND8A-20K	R106
464-6C733-M0	ELECTROLYTIC CAPACITOR CD110-10V-330uF-M	C134
464-6B747-M0	ELECTROLYTIC CAPACITOR CD110-6.3V-470uF-M	C605
477-60095-00	COIL 7KL004A	L107
471-1110K-003	PEAKING COIL EL0606SKI-101K	L201
471-1110K-003	PEAKING COIL EL0606SKI-101K	L301
471-1110K-003	PEAKING COIL EL0606SKI-101K	L401
471-1110K-003	PEAKING COIL EL0606SKI-101K	L411
471-1156K-003	PEAKING COIL EL0606SKI-561K	L514
471-1210K-003	PEAKING COIL EL0606SKI-102K	L508
471-2010K-003	PEAKING COIL SPT0305-100K-5	L101
464-6E733-M0	ELECTROLYTIC CAPACITOR CD110-25V-330uF-M	C410
471-2110K-00	PEAKING COIL SPT0305-101K-5	L102
471-2B56K-01	PEAKING COIL SPT0305-R56K-5	L108
475-25451-00	CERAMIC TRAP FILTER XT4.5MB	Z101
477-40230-00	FIXED COIL LH470-1	L402
477-40230-00	FIXED COIL LH470-1	L512
775-60044-00	SOCKET PIN RT-01T-1.3B	TP1
665-N0260-00	*COAXIAL CABLE CSYV-2B-260	
808-70349-00	INSULATOR	
742-30005-09	LINE TIE	
666-12301-00	FERRITE BEAD TY23X13.5X6	
859-11394-00	TV BOARD SHIELD COVER (TOP)	
859-11395-00	TV BOARD SHIELD COVER (BOTTOM)	
742-30005-09	LINE TIE	
667-L27U6-40A*	VIDEO PROCESSING BOARD ASS'Y (SMD)	
340-00001-0S	SMD DIODE LL4148	D401
340-00001-0S	SMD DIODE LL4148	D402
340-00001-0S	SMD DIODE LL4148	D406
340-00001-0S	SMD DIODE LL4148	D412
340-00001-0S	SMD DIODE LL4148	D503
340-00001-0S	SMD DIODE LL4148	D403
340-00001-0S	SMD DIODE LL4148	D404
340-00289-00	SMD DIODE BAV99LT1	D601

340-00289-00	SMD DIODE BAV99LT1	D602
340-00289-00	SMD DIODE BAV99LT1	D603
342-08470-90	SMD TRANSISTOR BC847AW	V106
342-08470-90	SMD TRANSISTOR BC847AW	V108
342-08470-90	SMD TRANSISTOR BC847AW	V201
342-08470-90	SMD TRANSISTOR BC847AW	V202
342-08470-90	SMD TRANSISTOR BC847AW	V402
342-08470-90	SMD TRANSISTOR BC847AW	Z610
342-08470-90	SMD TRANSISTOR BC847AW	Z612
342-08470-90	SMD TRANSISTOR BC847AW	V203
342-08470-90	SMD TRANSISTOR BC847AW	V204
342-08570-90	SMD TRANSISTOR BC857 AW	V101
342-08570-90	SMD TRANSISTOR BC857 AW	V107
342-08570-90	SMD TRANSISTOR BC857 AW	V401
353-15900-10	SMD ICR2S15900SP	N301
353-15010-50	SMD ICAP1501-50K5	N501
353-30080-10	SMD ICTPA3008D2	N401
353-72700-10	SMD IC LA72700V-N	N201
455-12000-H0	SMD RESISTOR FTR0603000XR	R105
455-12000-H0	SMD RESISTOR FTR0603000XR	R119
455-12000-H0	SMD RESISTOR FTR0603000XR	R150
455-12000-H0	SMD RESISTOR FTR0603000XR	R411
455-12315-H0	SMD RESISTOR FTR0603153JR	R163
455-12315-H0	SMD RESISTOR FTR0603153JR	R159
455-12075-H0	SMD RESISTOR FTR0603750JR	R601
455-12075-H0	SMD RESISTOR FTR0603750JR	R604
455-12075-H0	SMD RESISTOR FTR0603750JR	R605
455-12075-H0	SMD RESISTOR FTR0603750JR	R102
455-12110-H0	SMD RESISTOR FTR0603101JR	R146
455-12110-H0	SMD RESISTOR FTR0603101JR	R147
455-12110-H0	SMD RESISTOR FTR0603101JR	R148
455-12110-H0	SMD RESISTOR FTR0603101JR	R210
455-12110-H0	SMD RESISTOR FTR0603101JR	R211
455-12110-H0	SMD RESISTOR FTR0603101JR	R304
455-12110-H0	SMD RESISTOR FTR0603101JR	R305
455-12110-H0	SMD RESISTOR FTR0603101JR	R401
455-12110-H0	SMD RESISTOR FTR0603101JR	R402
455-12115-H0	SMD RESISTOR FTR0603151JR	R101
455-12133-H0	SMD RESISTOR FTR0603331JR	R107
455-12133-H0	SMD RESISTOR FTR0603331JR	R553
455-12133-H0	SMD RESISTOR FTR0603331JR	R554
455-12133-H0	SMD RESISTOR FTR0603331JR	R126
455-12133-H0	SMD RESISTOR FTR0603331JR	R405
455-12147-H0	SMD RESISTOR FTR0603471JR	R143
455-12168-H0	SMD RESISTOR FTR0603681JR	R140
455-12210-H0	SMD RESISTOR FTR0603102JR	R103
455-12210-H0	SMD RESISTOR FTR0603102JR	R108
455-12210-H0	SMD RESISTOR FTR0603102JR	R138
455-12210-H0	SMD RESISTOR FTR0603102JR	R502

455-12210-H0	SMD RESISTOR FTR0603102JR	R611
455-12210-H0	SMD RESISTOR FTR0603102JR	R613
455-12210-H0	SMD RESISTOR FTR0603102JR	R615
455-12210-H0	SMD RESISTOR FTR0603102JR	R618
455-12210-H0	SMD RESISTOR FTR0603102JR	R414
455-12210-H0	SMD RESISTOR FTR0603102JR	R415
455-12210-H0	SMD RESISTOR FTR0603102JR	R214
455-12210-H0	SMD RESISTOR FTR0603102JR	R216
455-12222-H0	SMD RESISTOR FTR0603222JR	R139
455-12222-H0	SMD RESISTOR FTR0603222JR	R205
455-12224-H0	SMD RESISTOR FTR0603242JR	R125
455-12227-H0	SMD RESISTOR FTR0603272JR	R117
455-12227-H0	SMD RESISTOR FTR0603272JR	R162
455-12239-H0	SMD RESISTOR FTR0603392JR	R145
455-12239-H0	SMD RESISTOR FTR0603392JR	R149
455-12247-H0	SMD RESISTOR FTR0603472JR	R115
455-12247-H0	SMD RESISTOR FTR0603472JR	R151
455-12247-H0	SMD RESISTOR FTR0603472JR	R202
455-12247-H0	SMD RESISTOR FTR0603472JR	R212
455-12247-H0	SMD RESISTOR FTR0603472JR	R610
455-12247-H0	SMD RESISTOR FTR0603472JR	R616
455-12251-H0	SMD RESISTOR FTR0603512JR	R201
456-3027H-11	SMD CAPACITOR 0603CG270J500BA	C137
455-12275-H0	SMD RESISTOR FTR0603752JR	R127
455-12230-H0	SMD RESISTOR FTR0603302JR	R301
455-12230-H0	SMD RESISTOR FTR0603302JR	R306
455-12310-H0	SMD RESISTOR FTR0603103JR	R109
455-12310-H0	SMD RESISTOR FTR0603103JR	R121
455-12310-H0	SMD RESISTOR FTR0603103JR	R136
455-12310-H0	SMD RESISTOR FTR0603103JR	R137
455-12310-H0	SMD RESISTOR FTR0603103JR	R204
455-12310-H0	SMD RESISTOR FTR0603103JR	R207
455-12310-H0	SMD RESISTOR FTR0603103JR	R303
455-12310-H0	SMD RESISTOR FTR0603103JR	R403
455-12310-H0	SMD RESISTOR FTR0603103JR	R404
455-12310-H0	SMD RESISTOR FTR0603103JR	R501
455-12310-H0	SMD RESISTOR FTR0603103JR	R161
455-12312-H0	SMD RESISTOR FTR0603123JR	R144
455-12322-H0	SMD RESISTOR FTR0603223JR	R122
455-12339-H0	SMD RESISTOR FTR0603393JR	R114
455-12347-H0	SMD RESISTOR FTR0603473JR	R302
455-12347-H0	SMD RESISTOR FTR0603473JR	R307
455-12347-H0	SMD RESISTOR FTR0603473JR	R203
455-12347-H0	SMD RESISTOR FTR0603473JR	R206
455-12347-H0	SMD RESISTOR FTR0603473JR	R215
455-12347-H0	SMD RESISTOR FTR0603473JR	R312
455-12347-H0	SMD RESISTOR FTR0603473JR	R317
455-12347-H0	SMD RESISTOR FTR0603473JR	R217
455-12368-H0	SMD RESISTOR FTR0603683JR	R142

455-12368-H0	SMD RESISTOR FTR0603683JR	R410
455-12410-H0	SMD RESISTOR FTR0603104JR	R505
455-12410-H0	SMD RESISTOR FTR0603104JR	R602
455-12410-H0	SMD RESISTOR FTR0603104JR	R603
455-12410-H0	SMD RESISTOR FTR0603104JR	R606
455-12410-H0	SMD RESISTOR FTR0603104JR	R607
455-12410-H0	SMD RESISTOR FTR0603104JR	R612
455-12410-H0	SMD RESISTOR FTR0603104JR	R617
455-12410-H0	SMD RESISTOR FTR0603104JR	R208
455-12410-H0	SMD RESISTOR FTR0603104JR	R209
455-12415-H0	SMD RESISTOR FTR0603154JR	R111
455-12415-H0	SMD RESISTOR FTR0603154JR	R112
455-12427-H0	SMD RESISTOR FTR0603274JR	R113
455-12456-H0	SMD RESISTOR FTR0603564JR	R141
456-2210K-B1	SMD CAPACITOR 06032R102K250BA	C202
455-12263-F1	SMD RESISTOR FTM06036341FR	R503
455-22110-H0	SMD RESISTOR RC11-1/8W-100-J	R507
455-22110-H0	SMD RESISTOR RC11-1/8W-100-J	R508
455-22156-H0	SMD RESISTOR RC11-1/8W-560-J	R504
455-22210-H0	SMD RESISTOR RC11-1/8W-1K-J	R506
455-22062-H0	SMD RESISTOR RC11-1/8W-62-J	R110
353-15010-10	*SMD ICAP1501K5LA	N502
455-22310-H0	SMD RESISTOR RC11-1/8W-10K-J	R406
455-22310-H0	SMD RESISTOR RC11-1/8W-10K-J	R407
455-22412-H0	SMD RESISTOR RC11-1/8W-120K-J	R413
456-1447R-C3	SMD CAPACITOR C3216Y5V1C474ZT	C430
456-1447R-C3	SMD CAPACITOR C3216Y5V1C474ZT	C431
456-3027H-11	SMD CAPACITOR 0603CG270J500BA	C201
456-2118H-11	SMD CAPACITOR 0603CG181J250BA	C203
456-2310R-C1	SMD CAPACITOR 06032E103Z250BA	C108
456-2310R-C1	SMD CAPACITOR 06032E103Z250BA	C110
456-2310R-C1	SMD CAPACITOR 06032E103Z250BA	C112
456-2310R-C1	SMD CAPACITOR 06032E103Z250BA	C120
456-2310R-C1	SMD CAPACITOR 06032E103Z250BA	C136
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C104
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C107
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C109
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C114
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C122
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C129
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C131
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C205
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C219
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C222
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C225
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C502
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C504
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C506
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C516

456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C517
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C518
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C608
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C611
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C407
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C408
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C411
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C421
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C423
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C436
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C437
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C442
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	C221
456-2422M-C1	SMD CAPACITOR 06032E224M250BA	C322
456-2422M-C1	SMD CAPACITOR 06032E224M250BA	C420
456-2422M-C1	SMD CAPACITOR 06032E224M250BA	C422
456-2422M-C1	SMD CAPACITOR 06032E224M250BA	C434
456-2422M-C1	SMD CAPACITOR 06032E224M250BA	C435
456-2447R-C1	SMD CAPACITOR 06032E474Z250BA	C413
456-2447R-C1	SMD CAPACITOR 06032E474Z250BA	C414
456-2447R-C1	SMD CAPACITOR 06032E474Z250BA	C415
456-2447R-C1	SMD CAPACITOR 06032E474Z250BA	C416
456-2447R-C1	SMD CAPACITOR 06032E474Z250BA	C417
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C438
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C439
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C441
456-3015H-11	SMD CAPACITOR 0603CG150J500BA	C509
456-3010H-11	SMD CAPACITOR C1608CH1H100JT	C103
456-3082H-12	SMD CAPACITOR C2012CH1H820JT	C106
456-3118H-12	SMD CAPACITOR C2012CH1H181JT	C126
456-3122H-12	SMD CAPACITOR C2012CH1H221JT	C440
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C507
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C511
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C601
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C602
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C603
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C604
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C607
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C610
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C426
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C427
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C428
456-3210H-11	SMD CAPACITOR 0603CG102J500BA	C429
456-3227H-11	SMD CAPACITOR 0603CG272J500BA	C132
477-40211-00	SMD FIXED INDUCTANCE SLF12575T-330M3R2	L403
477-40211-00	SMD FIXED INDUCTANCE SLF12575T-330M3R2	L406
477-40211-00	SMD FIXED INDUCTANCE SLF12575T-330M3R2	L407
477-40211-00	SMD FIXED INDUCTANCE SLF12575T-330M3R2	L410
477-90003-00	SMD FILTER LFA20-2A1E103M	Z602

477-90003-00	SMD FILTER LFA20-2A1E103M	Z603
477-90003-00	SMD FILTER LFA20-2A1E103M	Z606
477-90003-00	SMD FILTER LFA20-2A1E103M	Z607
477-90003-00	SMD FILTER LFA20-2A1E103M	Z609
477-90003-00	SMD FILTER LFA20-2A1E103M	Z611
477-90004-00	SMD FILTER LFA20-2A1E104M	Z601
477-90004-00	SMD FILTER LFA20-2A1E104M	Z604
477-90004-00	SMD FILTER LFA20-2A1E104M	Z605
477-90004-00	SMD FILTER LFA20-2A1E104M	Z608
455-12068-H0	SMD RESISTOR FTR0603680JR	R608
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L404
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L405
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L408
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L409
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L510
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L511
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L513
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L601
666-13207-00	SMD FERRITE BEAD STPB3216-380PT	L602
782-L27U6-400C	TV PCB	
477-40212-00	SMD FIXED INDUCTANCE SLF12575T-470M2R7	L507
477-40212-00	SMD FIXED INDUCTANCE SLF12575T-470M2R7	L509
456-3002C-11	SMD CAPACITOR 0603CG020C500BA	C135
455-12412-H0	SMD RESISTOR FTR0603124JR	R412
456-2110H-11	SMD CAPACITOR 0603CG101J250BA	C324
456-2110H-11	SMD CAPACITOR 0603CG101J250BA	C325
456-2322K-B1	SMD CAPACITOR 0603X7R223K250BA	C117
464-6D622-M02	ELECTROLYTIC CAPACITOR CD110-16V-22uF-M	C206
343-21200-104	TRANSISTOR 2SC2120-Y	V501
464-6D747-M02	ELECTROLYTIC CAPACITOR CD110-16V-470uF-M	C512
462-00282-K02	POLYESTER CAPACITOR CL11-100V-8200PF-K	C307
462-00282-K02	POLYESTER CAPACITOR CL11-100V-8200PF-K	C317
462-00315-K02	POLYESTER CAPACITOR CL11-100V-0.015uF-K	C310
462-B0468-H02	POLYESTER CAPACITOR CL21X-50V-0.68uF-J	C424
462-B0468-H02	POLYESTER CAPACITOR CL21X-50V-0.68uF-J	C433
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C301
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C302
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C303
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C304
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C312
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C313
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C314
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C220
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C125
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C226
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C224
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C223
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C215
464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C213

464-60510-M02	ELECTROLYTIC CAPACITOR CD110-50V-1uF-M	C207
464-60610-M02	ELECTROLYTIC CAPACITOR CD110-50V-10uF-M	C513
464-60647-M02	ELECTROLYTIC CAPACITOR CD110-50V-47uF-M	C133
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C130
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C305
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C306
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C311
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C315
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C316
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C320
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	C116
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	C124
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	C127
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	C211
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	C218
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	C609
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	C606
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	C227
464-6D610-M02	ELECTROLYTIC CAPACITOR CD110-16V-10uF-M	C228
464-6D722-M02	ELECTROLYTIC CAPACITOR CD110-16V-220uF-M	C323
464-6D747-M02	ELECTROLYTIC CAPACITOR CD110-16V-470uF-M	C403
464-6D747-M02	ELECTROLYTIC CAPACITOR CD110-16V-470uF-M	C514
464-6D747-M02	ELECTROLYTIC CAPACITOR CD110-16V-470uF-M	C515
464-6E647-M02	ELECTROLYTIC CAPACITOR CD110-25V-47uF-M	C508
464-6E710-M02	ELECTROLYTIC CAPACITOR CD110-25V-100uF-M	C505
464-6E722-M02	ELECTROLYTIC CAPACITOR CD110-25V-220uF-M	C503
464-6E722-M02	ELECTROLYTIC CAPACITOR CD110-25V-220uF-M	C401
464-6D710-M02	ELECTROLYTIC CAPACITOR CD110-16V-100uF-M	C204
464-6D710-M02	ELECTROLYTIC CAPACITOR CD110-16V-100uF-M	C121
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C217
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C216
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C209
464-6D547-M02	ELECTROLYTIC CAPACITOR CD110-16V-4.7uF-M	C210
464-6D522-M02	ELECTROLYTIC CAPACITOR CD110-16V-2.2uF-M	C214
464-6D522-M02	ELECTROLYTIC CAPACITOR CD110-16V-2.2uF-M	C212
464-60533-M02	ELECTROLYTIC CAPACITOR CD110-50V-3.3uF-M	C208
464-60447-M02	ELECTROLYTIC CAPACITOR CD110-50V-0.47uF-M	C105
464-60447-M02	ELECTROLYTIC CAPACITOR CD110-50V-0.47uF-M	C115
462-00215-K02	POLYESTER CAPACITOR CL11-100V-1500PF-K	C128
464-6E610-M02	*ELECTROLYTIC CAPACITOR CD110-25V-10uF-M	C443
667-L32U18-20	POWER PCB ASS'Y	
667-L32U18-20\	POWER PCB ASS'Y (MANUAL INSERTION)	
340-00166-00	DIODE BAV21	D506
340-00168-00	DIODE UF4007	D503
340-00168-00	DIODE UF4007	D512
340-00270-00	DIODE 1N5819	D513
340-00345-00	DIODE P6KE200A	D504
352-08170-50	IC H11A817C (D)	N504

352-08170-50	IC H11A817C (D)	N505
352-10020-10	*IC CP1002P	N502
470-00410-00	SWITCHING TRANSFORMERSRW3220PQ-X28V114!	T502
470-00410-00	SWITCHING TRANSFORMERSRW3220PQ-X28V114!	T503
364-331CK-00	3-PINS CONNECTORS FF-A3963-WV-2	X501
364-32101-00	2-PINS CONNECTORS TJC3-02A	X504
364-37101-00	7-PINS CONNECTORS TJC3-07A	X505
364-77511-00	FUSE HOLDER	FU501
364-77511-00	FUSE HOLDER	
459-B147M-20	CERAMIC CAPACITOR ECK-DNS471MBX !	C506
459-B147M-20	CERAMIC CAPACITOR ECK-DNS471MBX !	C507
459-B222M-20	CERAMIC CAPACITOR ECK-DNS222MEX !	C527
459-6247K-00	CERAMIC CAPACITOR DE1205B472K1K	C531
459-6310R-00	CERAMIC CAPACITOR DE1510E103Z1K	C512
462-2B422-M0V	POLYESTER CAPACITOR 250VAC-0.22uF-M !	C503
462-25447-H1	POLYESTER CAPACITOR CL21-400V-474J-P15(II	C523
464-DE610-M0	ELECTROLYTIC CAPACITOR CD110H-25V-10uF-M	C530
464-DE647-M0	ELECTROLYTIC CAPACITOR CD110H-25V-47uF-M	C521
464-DE810-M1	ELECTROLYTIC CAPACITOR CD81-25V-1000uF-M	C544
464-DF722-M0	ELECTROLYTIC CAPACITOR CD110H-35V-220uF-M	C532
464-DF722-M0	ELECTROLYTIC CAPACITOR CD110H-35V-220uF-M	C546
464-DF722-M0	ELECTROLYTIC CAPACITOR CD110H-35V-220uF-M	C548
464-DF722-M0	ELECTROLYTIC CAPACITOR CD110H-35V-220uF-M	C554
464-DF810-M1	ELECTROLYTIC CAPACITOR CD110H-35V-1000uF-M	C545
464-DF810-M1	ELECTROLYTIC CAPACITOR CD110H-35V-1000uF-M	C547
464-DF810-M1	ELECTROLYTIC CAPACITOR CD110H-35V-1000uF-M	C549
464-67715-M5G	ELECTROLYTIC CAPACITOR CD288H-400V-150uF-M	C529
467-2H147-H0A	METAL RESISTOR 3W-470Ω-J	R567
467-50322-H2	CEMENT RESISTOR RGG-5W-22K-J	R543
467-6HA01-H0A	WIRE ROUND RESISTOR RX21-3W-0.1Ω-J	R530
467-6HB24-H0	WIRE ROUND RESISTOR RX21-3W-0.24Ω-J	R537
469-40012-00	THERMISTOR M2R014C	RT502
470-00403-00	*SWITCHING TRANSFORMER16ES-L71-1 !	T501
364-38101-00	8-PINS CONNECTORS TJC3-08A	X506
477-20076-00	POWER FILTER TF1409F-122Y2R0-X	L501
477-20079-00	POWER FILTER TF1807F-103Y2R0-X0	L502
477-40189-00	FIXED COIL LI050	L507
477-40189-00	FIXED COIL LI050	L508
477-40252-00	FIXED COIL SF-T8-45I-X01	L503
477-40277-00	FIXED COIL BCK-100-02L4	L504
569-14141-80	FUSE 50T 4AL 250V !	FU501
569-22155-00	FUSE 250V 5A !	FU502
666-13523-00	FERRITE BEAD TB3.5X1X9	L505
666-13523-00	FERRITE BEAD TB3.5X1X9	L506
459-5110H-90	CERAMIC CAPACITOR CC45SL2H101JYJ	C526
459-5147K-00	CERAMIC CAPACITOR RQC05B471K-H46CA	C541
459-5147K-00	CERAMIC CAPACITOR RQC05B471K-H46CA	C542
459-5210K-00	CERAMIC CAPACITOR RQC07B102K-H46CA	C539
459-5210K-00	CERAMIC CAPACITOR RQC07B102K-H46CA	C540

569-34155-00	FUSE 20N 250V/6A !	FU503
459-6110H-00	CERAMIC CAPACITOR CT81-06C-Bn-1KV-101J	C555
464-DE647-M0	ELECTROLYTIC CAPACITOR CD110H-25V-47uF-M	C535
340-00403-00	DIODE SF10L 60U	D509
340-00424-00	DIODE MBRF20150CT	D515
340-80029-00	*DIODE GBU806	D502
343-00500-10	TRANSISTOR IRFB11N50A	V501
343-00600-60	TRANSISTOR SPP11N60C3	V504
706-BA201-01	HEAT SINK	SRP502
706-AA403-01	HEAT SINK	SRP504
706-B3501-01	HEAT SINK	SRP503
706-B5502-01	HEAT SINK	SRP501
808-80193-00	SILICA PIECE T0-220/0.45	
808-80193-00	SILICA PIECE T0-220/0.45	
822-10110-00	BUSH	
822-10110-00	BUSH	
851-53008-31	SCREW SJ2825 ST3X8FT D.Zn	D502
851-53008-31	SCREW SJ2825 ST3X8FT D.Zn	D515
852-93008-81	COMPOSE SCREW SJ2836 M3X8-D.Zn	D516
852-93008-81	COMPOSE SCREW SJ2836 M3X8-D.Zn	V501
852-93008-81	COMPOSE SCREW SJ2836 M3X8-D.Zn	D509
852-93008-81	COMPOSE SCREW SJ2836 M3X8-D.Zn	V504
340-00422-00	DIODE MBR20200CT	D516
808-80193-00	SILICA PIECE T0-220/0.45	D516
822-10110-00	BUSH	D516
667-L32U18-20*	POWER PCB ASS'Y (AUTOMATIC INSERTION ,SMD)	
340-00001-0S	SMD DIODE LL4148	D501
340-00001-0S	SMD DIODE LL4148	D505
340-00001-0S	SMD DIODE LL4148	D507
340-00001-0S	SMD DIODE LL4148	D508
340-00001-0S	SMD DIODE LL4148	D510
340-00001-0S	SMD DIODE LL4148	D518
340-00001-0S	SMD DIODE LL4148	D520
340-50392-00	ZENER DIODE BZV55-B3V9	D514
340-50512-00	SMD ZENER DIODE BZV55-B5V1	D521
340-51602-00	SMD ZENER TUBE BZV55-B16V	D511
340-52702-00	ZENER DIODE BZV55-B27V	D519
340-52702-00	ZENER DIODE BZV55-B27V	D517
342-29070-80	SMD TRANSISTOR MMBT2907ALT1	V502
342-39040-00	SMD TRANSISTOR MMBT3904	V505
342-39040-00	SMD TRANSISTOR MMBT3904	V506
342-39060-30	SMD TRANSISTOR MMBT3906LT1	V503
353-04310-30	SMD IC LM431ACDR	N506
353-27010-10	SMD IC PS2701-1-V	N503
353-48000-10	SMD IC ML4800CS	N501
455-22000-H0	SMD RESISTOR RC11-1/8W-0-J	R549
455-22010-H0	SMD RESISTOR RC11-1/8W-10-J	R522
455-22010-H0	SMD RESISTOR RC11-1/8W-10-J	R540

455-22033-H0	SMD RESISTOR RC11-1/8W-33-J	R519
455-22033-H0	SMD RESISTOR RC11-1/8W-33-J	R521
455-22110-H0	SMD RESISTOR RC11-1/8W-100-J	R538
455-22110-H0	SMD RESISTOR RC11-1/8W-100-J	R539
455-22122-H0	SMD RESISTOR RC11-1/8W-220-J	R531
455-22122-H0	SMD RESISTOR RC11-1/8W-220-J	R544
455-22210-H0	SMD RESISTOR RC11-1/8W-1K-J	R511
455-22210-H0	SMD RESISTOR RC11-1/8W-1K-J	R546
455-22210-H0	SMD RESISTOR RC11-1/8W-1K-J	R547
455-22210-H0	SMD RESISTOR RC11-1/8W-1K-J	R551
455-22210-H0	SMD RESISTOR RC11-1/8W-1K-J	R563
455-22210-H0	SMD RESISTOR RC11-1/8W-1K-J	R564
455-22222-H0	SMD RESISTOR RC11-1/8W-2.2K-J	R545
455-22222-H0	SMD RESISTOR RC11-1/8W-2.2K-J	R548
455-22315-H0	SMD RESISTOR RC11-1/8W-15K-J	R550
455-22247-H0	SMD RESISTOR RC11-1/8W-4.7K-J	R533
455-22291-H0	SMD RESISTOR RC11-1/8W-9.1K-J	R506
455-22311-F3	SMD RESISTOR RC-05K1152FT	R520
455-22312-H0	SMD RESISTOR RC11-1/8W-12K-J	R505
455-22315-H0	SMD RESISTOR RC11-1/8W-15K-J	R528
455-22315-H0	SMD RESISTOR RC11-1/8W-15K-J	R541
455-22315-H0	SMD RESISTOR RC11-1/8W-15K-J	R542
455-22412-H0	SMD RESISTOR RC11-1/8W-120K-J	R552
455-22327-H0	SMD RESISTOR RC11-1/8W-27K-J	R513
455-22336-H0	SMD RESISTOR RC11-1/8W-36K-J	R535
455-22336-H0	SMD RESISTOR RC11-1/8W-36K-J	R536
455-22343-H0	SMD RESISTOR RC11-1/8W-43K-J	R516
455-22362-H0	SMD RESISTOR RC11-1/8W-62K-J	R517
455-22375-H0	SMD RESISTOR RC11-1/8W-75K-J	R504
455-22424-H0	SMD RESISTOR RC11-1/8W-240K-J	R527
455-22424-H0	SMD RESISTOR RC11-1/8W-240K-J	R534
455-22439-H0	SMD RESISTOR RC11-1/8W-390K-J	R532
455-31000-H0	SMD RESISTOR RC06J000	R508
455-31030-H0	SMD RESISTOR RC06J300	R557
455-31030-H0	SMD RESISTOR RC06J300	R558
455-31030-H0	SMD RESISTOR RC06J300	R559
455-31030-H0	SMD RESISTOR RC06J300	R560
455-31030-H0	SMD RESISTOR RC06J300	R561
455-31030-H0	SMD RESISTOR RC06J300	R562
455-31424-H0	SMD RESISTOR RC06J244	R501
455-31424-H0	SMD RESISTOR RC06J244	R502
455-31424-H0	SMD RESISTOR RC06J244	R503
455-31424-H0	SMD RESISTOR RC06J244	R525
455-31424-H0	SMD RESISTOR RC06J244	R526
455-31456-H0	SMD RESISTOR RC06J564	R507
455-31456-H0	SMD RESISTOR RC06J564	R509
455-31456-H0	SMD RESISTOR RC06J564	R510
455-31456-H0	SMD RESISTOR RC06J564	R523
455-31456-H0	SMD RESISTOR RC06J564	R524

455-31510-H0	SMD RESISTOR RC06J105	R514
455-31510-H0	SMD RESISTOR RC06J105	R515
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C504
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C505
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C519
456-2510R-C2	*SMD CAPACITOR 08052E105Z250BA	C528
456-3133H-12	SMD CAPACITOR C2012CH1H331JT	C513
456-3147H-12	SMD CAPACITOR C2012CH1H471JT	C511
456-3210H-12	SMD CAPACITOR C2012CH1H102JT	C510
456-3210H-12	SMD CAPACITOR C2012CH1H102JT	C516
456-3210H-12	SMD CAPACITOR C2012CH1H102JT	C520
456-3210H-12	SMD CAPACITOR C2012CH1H102JT	C534
456-3233K-B2	SMD CAPACITOR C2012X7R1H332KT	C514
456-3256K-B2	SMD CAPACITOR C2012X7R1H562KT	C518
456-3310K-B2	SMD CAPACITOR C2012X7R1H103KT	C502
456-3310K-B2	SMD CAPACITOR C2012X7R1H103KT	C509
456-3315H-12	SMD CAPACITOR C2012CH1H153JT	C522
456-3347K-B2	SMD CAPACITOR C2012X7R1H473KT	C508
456-3410K-B2	SMD CAPACITOR C2012X7R1H104KT	C515
456-3410K-B2	SMD CAPACITOR C2012X7R1H104KT	C537
456-3410K-B2	SMD CAPACITOR C2012X7R1H104KT	C538
456-3410K-B2	SMD CAPACITOR C2012X7R1H104KT	C550
456-3410K-B2	SMD CAPACITOR C2012X7R1H104KT	C551
456-3410K-B2	SMD CAPACITOR C2012X7R1H104KT	C552
456-3410K-B2	SMD CAPACITOR C2012X7R1H104KT	C553
456-3415K-B2	SMD CAPACITOR C2012X7R1H154KT	C501
456-3415K-B2	SMD CAPACITOR C2012X7R1H154KT	C524
456-3415K-B2	SMD CAPACITOR C2012X7R1H154KT	C525
455-22327-H0	SMD RESISTOR RC11-1/8W-27K-J	R553
455-22456-H0	SMD RESISTOR RC11-1/8W-560K-J	R555
456-3415K-B2	SMD CAPACITOR C2012X7R1H154KT	C533
998	JUMPER WIRE	J510
467-1C247-H03	CARBON RESISTOR 1/6W-4.7K-J	R518
467-1D010-H03	CARBON RESISTOR RT14-1/4W-10Ω-J	R529
782-L32U25-2000	POWER PCB	
895-6020025-50	RIVET GB876-86-2X2.5-COPPER	M01
895-6020025-50	RIVET GB876-86-2X2.5-COPPER	M02
895-6020025-50	RIVET GB876-86-2X2.5-COPPER	M03
895-6020025-50	RIVET GB876-86-2X2.5-COPPER	M04
895-6020025-50	RIVET GB876-86-2X2.5-COPPER	M05
895-6020025-50	RIVET GB876-86-2X2.5-COPPER	M06
998	JUMPER WIRE	J501
998	JUMPER WIRE	J502
998	JUMPER WIRE	J503
998	JUMPER WIRE	J504
998	JUMPER WIRE	J505
998	JUMPER WIRE	J506
998	JUMPER WIRE	J507
998	JUMPER WIRE	J508

998	JUMPER WIRE	J509
667-L32U5-09	IR RECEIVE BOARD ASS'Y	
667-L32U5-09\	IR RECEIVE BOARD ASS'Y (MANUAL INSERTION)	
340-10113-20	LED HFT503MPBR-1	LED1
352-38060-60	IC HRM138BB3006 (M)	N1
464-6C622-M0	ELECTROLYTIC CAPACITOR CD110-10V-22uF-M	CK1
364-341BQ-00	4-PINS CONNECTORS 1.25T-1-4AW	X1
667-L32U5-09*	IR RECEIVE BOARD ASS'Y (SMD)	
455-12110-H0	SMD RESISTOR FTR0603101JR	RK1
455-12215-H0	SMD RESISTOR FTR0603152JR	RK4
455-12310-H0	SMD RESISTOR FTR0603103JR	RK2
456-2410M-C1	SMD CAPACITOR 06032E104M250BA	CK2
782-L32U5-0900	IR RECEIVE PCB	
455-12110-H0	SMD RESISTOR FTR0603101JR	RK3
301-RL27U6-32MA	RC-R32M-0AREMOTE CONTROL UNIT (DIGISTAR)	

